

## **Förord (S)**

Den här katalogen är ett komplement till de reservdelskataloger ni redan har. Målsättningen är att ytterligare förbättra möjligheterna för våra importörer och återförsäljare att på ett lättare sätt kunna hitta och identifiera artiklar inom området fästelement.

Volvos konstruktions och utvecklingsavdelningar bedriver ett omfattande utvecklingsarbete för att ständigt förbättra och utveckla våra produkter.

Det innebär bland annat en kontinuerlig test och provningsverksamhet.

Målsättningen är att våra produkter skall motsvara de nuvarande och framtida marknadskrav och ge Volvo en marknadsledande ställning.

Vi på eftermarknaden är ett viktigt led för att denna målsättning skall kunna bli verklighet.

Vår påverkan vad gäller produktval mellan Volvo och konkurrenter är ett avgörande styrmedel för att Volvo skall kunna leva upp till sitt kvalitetsrykte.

[Alla artiklar som kompletterats i cd-versionen nr 195092 \(dat 10.2003\) är markerade med blått.](#)

## **Foreword (GB)**

This catalogue is a supplement to the spare parts catalogue you already have. Its purpose is to make it much easier for our importers and dealers to find and identify fastener items. Comprehensive developments are being carried out by the Volvo design and development departments with a view to continuously improving and developing our products.

Among other things, this means subjecting products to continual tests and trials.

The aim is to turn out products that meet the present and future needs of the market and in so doing maintain prominence in that field.

We at Aftermarket have an important roll to play towards achieving this goal. Our influence with regard to Volvo's product selection vis-à-vis competitors is a decisive guiding element which enables Volvo to live up to its reputation for second-to-none quality.

[All components added in CD version no. 195092 \(date 10.2003\) are marked in blue.](#)

## **Vorwort (D)**

Dieser Katalog ergänzt die Ersatzteilkataloge, die Sie bereits haben. Das Ziel ist, die Möglichkeiten für unsere Importeure und Händler so zu verbessern, dass sie leichter die Artikel im Bereich "Befestigungselemente" auffinden können. Die Konstruktions- und Entwicklungsabteilungen von Volvo leisten umfangreiche Entwicklungsarbeit, um unsere Produkte ständig zu verbessern und zu optimieren. Dies bedeutet unter anderem kontinuierliche Tests und Prüfungen.

Ziel ist, dass unsere Produkte den heutigen und zukünftigen Anforderungen des Marktes entsprechen und Volvo eine auf dem Markt führende Position sichern sollen.

Wir auf dem Aftermarket-Sektor sind ein wichtiges Glied, damit diese Zielsetzung in Erfüllung geht.

Unsere Einflussnahme bei der Produktentscheidung zwischen Volvo und seinen Mitbewerbern ist ein entscheidendes Steuerungsinstrument, damit Volvo seinem guten Ruf bezüglich unserer Qualität gerecht wird.

[Alle Artikel, die in der CD-Version ergänzt sind 195092 \(Dat.10.2003\) sind in blau gekennzeichnet.](#)

## **Préface (F)**

Ce catalogue constitue un additif au catalogue Pièces déjà en votre possession. Il a pour objectif de faciliter les recherches des importateurs et des concessionnaires en matière d'identification des éléments de fixation.

Des travaux sont en permanence menés par les départements Design et Développement de Volvo dans la perspective de toujours améliorer les produits de la marque.

Ceci veut dire, entre autre, que nos produits sont continuellement testés afin de répondre aux exigences, présentes et futures, des marchés afin de maintenir la prépondérance de Volvo dans ce domaine.

Le rôle joué par les responsables du Service Après-Vente est essentiel pour atteindre cet objectif ; leur influence est également décisive en matière de choix des produits Volvo par rapport à la concurrence pour garantir la pérennité de la qualité Volvo.

[Toutes les pièces qui ont été ajoutées dans la version CD N° 195092 \(date 10.2003\) sont marquées en bleu.](#)

## **Prefazione (I)**

Questo catalogo è un complemento ai cataloghi ricambi di cui siete già in possesso. Il suo scopo è di facilitare ulteriormente, per importatori e concessionari, la ricerca e l'individuazione degli articoli all'interno del gruppo di appartenenza.

I reparti di costruzione e di sviluppo della Volvo conducono un ampio lavoro di miglioramento e sviluppo dei nostri prodotti.

Per questo motivo vengono effettuati test e prove continui.

Tutto ciò affinché i nostri prodotti soddisfino le attuali e le future richieste del mercato, in modo da collocare Volvo in una posizione leader sul mercato.

Noi del dopovendite siamo un importante strumento per raggiungere questo obiettivo. Il nostro operato è importante e decisivo per la scelta tra la Volvo e le marche concorrenti e soprattutto per confermare la qualità elevata dei prodotti Volvo.

[Tutti gli articoli che vengono completati nella versione CD No. 195092 \(dat 10.2003\) sono contrassegnati in blu.](#)

## **Prefacio (E)**

El presente catálogo constituye un complemento a los catálogos de repuestos que ustedes tienen ya en su poder. El propósito es facilitar más a nuestros importadores y concesionarios la localización e identificación de los artículos correspondientes a elementos de fijación. Los departamentos de diseño y desarrollo de Volvo trabajan continuamente para seguir mejorando nuestros productos.

Entre otras cosas significa esto una prueba continua de todos los elementos. El objetivo es que nuestros productos correspondan a las demandas actuales y futuras del mercado contribuyendo a que Volvo siga ocupando un puesto de líder.

Los que trabajamos en los departamentos de posventa somos un importante eslabón para que este objetivo llegue hacerse realidad.

[Todos los artículos con modificaciones en la versión CD-ROM nº 195092 \(dat 10.2003\) están marcados en azul.](#)

## **Voorwoord (NL)**

Deze katalogus is een aanvulling op de reserveonderdelencatalogi die u reeds heeft. Het is de bedoeling om het onze importeurs en dealers nog makkelijker te maken om artikelen op het gebied van bevestigingselementen te vinden en te identificeren.

Volvo's constructie- en ontwikkelingsafdelingen streven er voortdurend naar onze producten te verbeteren en verder te ontwikkelen.

Dit houdt onder andere in dat we voortdurend testen en proeven uitvoeren.

Onze doelstelling is dat onze producten voldoen aan de huidige en toekomstige markteisen en dat Volvo een leidende marktpositie inneemt.

Wij die werkzaam zijn in de aftermarket, spelen een belangrijke rol in het verwerzenlijken van deze doelstelling. De invloed die we kunnen uitoefenen om de klant voor Volvo te doen kiezen, in plaats van voor de concurrenten, is van doorslaggevend belang voor Volvo om haar kwaliteitsreputatie waar te kunnen maken.

[Alle artikelen waaraan iets is toegevoegd in cd-versie nr. 195092 \(dat 10.2003\), staan in het blauw.](#)

## **Prefácio (P)**

Este catálogo constitui um complemento dos catálogos que Vocês já possuem. O objectivo é facilitar mais aos nossos importadores e concessionários, a localização e a identificação dos artigos correspondentes aos elementos de fixação. Os departamentos de desenho e desenvolvimento da Volvo trabalham continuamente para melhorar e desenvolver os nossos produtos.

Isto significa entre outras coisas uma prova contínua de todos os elementos. O objectivo é os nossos produtos satisfazerem os actuais e futuros requisitos, o que contribui para que a Volvo mantenha uma posição de líder no mercado.

Nós que trabalhamos no Departamento das Pós-Vendas somos um elo importante para que a Volvo possa manter a sua fama de qualidade.

[Na versão em CD-ROM nº 195092 \(dat 10.2003\) todos os artigos completados estão marcados com cor azul.](#)

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Bandkabeltång  
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Nummerregister  
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**Avläsningsexempel (S)**

**Easy reader chart (GB)**

**Ablesebeispiel (D)**

**Exemple de lecture rapide (F)**

**M6S**

**8.8**

**M-thread**

**fzb**

Ytbehandling  
Blankförzinkad  
Surface-treated  
Blank zinc-coated  
Oberflächenbehandlung  
Blank verzinkt  
Traitement de surface  
Galvanisation brillante

Typ av gänga  
Metrisk grovgänga  
Thread type  
Metric coarse screw thread  
Gewindetyp  
Metrisches Grobgewinde  
Type de filetage  
Filetage gros filet, métrique

Hållfasthetsklass 8.8  
Strength class 8.8  
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Artikelidentifikation  
Sexkantskruv, Metrisk gänga  
Part's identification  
Hex screw, Metric thread  
Artikelidentifikation  
Sechskantschraube, metrisches Gewinde  
Identification de la pièce  
Vis à tête hexagonale, filetage métrique

**Esempio di lettura (I)**  
**Ejemplo de lectura (E)**  
**Af leesvoorbeeld (NL)**  
**Exemplo de leitura (P)**

**M6S**

**8.8**

**M-thread**

**fzb**

Trattamento superficie  
Zincatura lucida  
Tratamiento superficial  
Zincado  
Oppervlaktebehandeling  
Blankverzinkt  
Tratamento da superfície  
Zincagem lisa

Tipo filettatura  
Filettatura metrica  
Tipo de rosca  
Rosca métrica gruesa  
Type schroefdraad  
Metrische grove schroefdraad  
Tipo de rosca  
Rosca métrica grossa

Classe di resistenza 8.8  
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Identificazione articolo  
Vite esagonale, filettatura metrica  
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Tornillos hexagonales, rosca métrica  
Artikelidentificatie  
Zeskantbout, Metrische schroefdraad  
Identificação do artigo  
Parafuso hexagonal, rosca métrica

## Förkortningar (S)

### Sexkantsskruv

|         |  |
|---------|--|
| M6S     | Sexkantsskruv, metrisk gänga                                   |
| U6S     | Sexkantsskruv, unified gänga                                   |
| HS      | Sexkantsskruv, gängpressande                                   |
| R-M6S   | Sexkantsskruv, metrisk gänga, rostfri                          |
| SR-U6S  | Sexkantsskruv, unified gänga, syrafast rostfri                 |
| M6SF    | Sexkantsskruv med fläns, metrisk gänga                         |
| HB      | Sexkantsskruv, borrande och gängpressande                      |
| M6SF-TT | Sexkantsskruv med fläns, gängpressande, Taptite, metrisk gänga |
| U6SF    | Sexkantsskruv med fläns, unified gänga                         |
| U6SFT   | Sexkantsskruv med fläns och Torxgrepp, unified gänga           |
| R-M6SF  | Sexkantsskruv med fläns, rostfri, metrisk gänga                |

### Pinnskruv

|       |                                  |
|-------|----------------------------------|
| PS    | Pinnskruv                        |
| PS-TT | Pinnskruv gängpressande, Taptite |

### Stoppsskruv

|        |   |
|--------|---|
| SSS    | Stoppsskruv med spår                                      |
| SSSS   | Stoppsskruv med spår och spets                            |
| SSST   | Stoppsskruv med spår och tapp                             |
| MP6SS  | Stoppsskruv, plan ända, invändig sexkant, metrisk gänga   |
| MSK6SS | Stoppsskruv, skålad ända, invändig sexkant, metrisk gänga |
| MS6SS  | Stoppsskruv med spets och invändig sexkant, metrisk gänga |
| MT6SS  | Stoppsskruv med tapp och invändig sexkant, metrisk gänga  |

### Fyrkantsstoppsskruv

|       |  |
|-------|--|
| T4SS  | Fyrkantsstoppsskruv med tapp, metrisk gänga  |
| UT4SS | Fyrkantsstoppsskruv med tapp, unified gänga  |
| US4SS | Fyrkantsstoppsskruv med spets, unified gänga |

### Krysspårsskruv

|         |  |
|---------|--|
| MRX     | Krysspårsskruv, cylindriskt huvud, metrisk gänga                                       |
| UCX     | Krysspårsskruv, cylindriskt huvud, unified gänga                                       |
| RXS-ST  | Krysspårsskruv, rundat huvud, gängpressande  |
| SR-RXS  | Krysspårsskruv, rundat huvud, syrafast rostfri   |
| URX     | Krysspårsskruv, rundat huvud, unified gänga  |
| RXB     | Krysspårsskruv, borrande och gängpressande, rundat huvud                               |
| LKXS    | Krysspårsskruv, gängpressande lågt kullrigt huvud                                      |
| MRXTT   | Krysspårsskruv, gängpressande, Taptite, metrisk gänga                                  |
| MFX     | Krysspårsskruv, försänkt skalle, metrisk gänga   |
| MKFX    | Krysspårsskruv, kullrigt försänkt skalle, metrisk gänga                                |
| UFX     | Krysspårsskruv, försänkt skalle, unified gänga   |
| UKFX    | Krysspårsskruv, kullrig försänkt skalle, unified gänga                                 |
| KFXS    | Krysspårsskruv, kullrig försänkt skalle, spetsig ända, gängpressande                   |
| MFX-TT  | Krysspårsskruv, gängpressande, Taptite, försänkt skalle, metrisk gänga                 |
| SR-MFX  | Krysspårsskruv, försänkt skalle, Metrisk gänga, syrafast rostfri                       |
| SR-KFXS | Krysspårsskruv, kullrig försänkt skalle, spetsig ända, gängpressande, syrafast rostfri |



## **Insexskruv**

|         |   |
|---------|---|
| MC6S    | Insexskruv, metrisk gänga                   |
| MLC6S   | Insexskruv, låg skalle, metrisk gänga       |
| UC6S    | Insexskruv, unified gänga                   |
| SR-UC6S | Insexskruv, unified gänga, syrafast rostfri |

## **Sexkantsmutter**

|       |   |
|-------|---|
| M6M   | Sexkantsmutter, metrisk gänga           |
| MH6M  | Sexkantsmutter, hög, metrisk gänga      |
| ML6M  | Sexkantsmutter, låg, metrisk gänga      |
| U6M   | Sexkantsmutter, unified gänga           |
| UH6M  | Sexkantsmutter, hög, unified gänga      |
| UL6M  | Sexkantsmutter, låg, unified gänga      |
| R-M6M | Sexkantsmutter, metrisk gänga, rostfri  |
| R-U6M | Sexkantsmutter, unified gänga, rostfri  |
| M6MF  | Sexkantsmutter med fläns, metrisk gänga |
| U6MF  | Sexkantsmutter med fläns, unified gänga |

## **Kronmutter**

|      |                                    |
|------|------------------------------------|
| MKM  | Kronmutter, metrisk gänga          |
| UKM  | Kronmutter, unified gänga          |
| MHKM | Kronmutter med hals, metrisk gänga |

## **Fjädrande rörpinne**

|     |                    |
|-----|--------------------|
| FRP | Fjädrande rörpinne |
|-----|--------------------|

## **Hålnit**

|     |                         |
|-----|-------------------------|
| PHN | Hålnit, plan skalle     |
| KHN | Hålnit, kullrig skalle  |
| FHN | Hålnit, försänkt skalle |

## **Saxpinne**

|    |          |
|----|----------|
| SP | Saxpinne |
|----|----------|

|                      |  |
|----------------------|--|
| Gänga D/<br>Thread D | Dimension för gänga                              |
| s                    | Nyckelvidd                                       |
| k                    | Skallens höjd                                    |
| e                    | Skallens maxmått                                 |
| L                    | Längd  |
| H                    | Höjd   |
| Stigning/<br>Pitch   | Avstånd mellan två på varann följande gängtappar |

## Abbreviations (GB)

### Hexagon screws/bolts

|         |   |
|---------|---|
| M6S     | Hexagon screw, Metric thread                                      |
| U6S     | Hexagon screw, Unified thread                                     |
| HS      | Hexagon screw, thread forming                                     |
| R-M6S   | Hexagon screw, Metric thread, stainless                           |
| SR-U6S  | Hexagon screw, Unified thread, acidproof stainless                |
| M6SF    | Hexagon screw with flange, Metric thread                          |
| HB      | Hexagon screw, drilling and thread forming                        |
| M6SF-TT | Hexagon screw with flange, thread forming, Taptite, Metric thread |
| U6SF    | Hexagon screw with flange, Unified thread                         |
| U6SFT   | Hexagon screw with flange and Torxgrip, Unified thread            |
| R-M6SF  | Hexagon screw with flange, stainless, Metric thread               |

### Stud

|       |                             |
|-------|-----------------------------|
| PS    | Stud                        |
| PS-TT | stud, self-tapping, Taptite |

### Slotted set screws

|        |   |
|--------|---|
| SSS    | Slotted set screw   |
| SSSS   | Slotted set screw with cone point                               |
| SSST   | Slotted set screw with full dog point                           |
| MP6SS  | Slotted set screw, flat point, socket hex, Metric thread        |
| MSK6SS | Slotted set screw, cup point, socket hex, Metric thread         |
| MS6SS  | Slotted set screw with cone point and socket hex, Metric thread |
| MT6SS  | Slotted set screw with dog point and socket hex, Metric thread  |

### Square head bolts

|       |  |
|-------|--|
| T4SS  | Square head bolt with dog point, Metric thread   |
| UT4SS | Square head bolt with dog point, Unified thread  |
| US4SS | Square head bolt with cone point, Unified thread |

### Cross recessed screws

|         |   |
|---------|---|
| MRX     | Cross recessed screw, cylindrical head, Metric thread                                   |
| UCX     | Cross recessed screw, cylindrical head, Unified thread                                  |
| RXS-ST  | Cross recessed screw, rounded head, self-tapping  |
| SR-RXS  | Cross recessed screw, rounded head, acidproof stainless                                 |
| URX     | Cross recessed screw, rounded head, Unified thread                                      |
| RXB     | Cross recessed screw, drilling and self-tapping, rounded head                           |
| LKXS    | Cross recessed screw, self-tapping low oval head  |
| MRXTT   | Cross recessed screw, self-tapping, Taptite, Metric thread                              |
| MFX     | Cross recessed screw, countersunk head, Metric thread                                   |
| MKFX    | Cross recessed screw, countersunk oval head, Metric thread                              |
| UFX     | Cross recessed screw, countersunk head, Unified thread                                  |
| UKFX    | Cross recessed screw, countersunk head, Unified thread                                  |
| KFXS    | Cross recessed screw, countersunk oval head, pointed, self-tapping                      |
| MFX-TT  | Cross recessed screw, self-tapping, Taptite, countersunk head, Metric thread            |
| SR-MFX  | Cross recessed screw, countersunk head, Metric thread, acidproof stainless              |
| SR-KFXS | Cross recessed screw, countersunk oval head, pointed, self-tapping, acidproof stainless |



## Hexagon socket screws

|         |   |
|---------|---|
| MC6S    | Hexagon socket screw, Metric thread                       |
| MLC6S   | Hexagon socket screw, low head, Metric thread             |
| UC6S    | Hexagon socket screw, Unified thread                      |
| SR-UC6S | Hexagon socket screw, Unified thread, acidproof stainless |

## Hexagon nuts

|       |   |
|-------|---|
| M6M   | Hexagon nut, Metric thread              |
| MH6M  | Hexagon nut, thick, Metric thread       |
| ML6M  | Hexagon nut, thin, Metric thread        |
| U6M   | Hexagon nut, Unified thread             |
| UH6M  | Hexagon nut, thick, Unified thread      |
| UL6M  | Hexagon nut, thin, Unified thread       |
| R-M6M | Hexagon nut, Metric thread, stainless   |
| R-U6M | Hexagon nut, Unified thread, stainless  |
| M6MF  | Hexagon nut with flange, Metric thread  |
| U6MF  | Hexagon nut with flange, Unified thread |

## Slotted castle nuts

|      |                                    |
|------|------------------------------------|
| MKM  | Slotted castle nut, Metric thread  |
| UKM  | Slotted castle nut, Unified thread |
| MHKM | Hexagon castle nut, Metric thread  |

## Spring tube pins

|     |                 |
|-----|-----------------|
| FRP | Spring tube pin |
|-----|-----------------|

## Semi-tubular rivets

|     |                                      |
|-----|--------------------------------------|
| PHN | Semi-tubular rivet, flat head        |
| KHN | Semi-tubular rivet, oval head        |
| FHN | Semi-tubular rivet, countersunk head |

## Split pins

|    |           |
|----|-----------|
| SP | Split pin |
|----|-----------|

|                    |  |
|--------------------|--|
| Gänga D/           |  |
| Thread D           | Thread dimensions                        |
| s                  | Widths across flats                      |
| k                  | Head height                              |
| e                  | Head max. measurement                    |
| L                  | Length                                   |
| H                  | Height                                   |
| Stigning/<br>Pitch | Distance between two in-line thread taps |

## Abkürzungen (D)

### Sechskantschrauben

|         |  |
|---------|--|
| M6S     | Sechskantschraube, metrisches Gewinde  |
| U6S     | Sechskantschraube, Unified Gewinde   |
| HS      | Sechskantschraube, gepresstes Gewinde  |
| R-M6S   | Sechskantschraube, metrisches Gewinde, rostfrei                                |
| SR-U6S  | Sechskantschraube, Unified Gewinde, säurefest, rostfrei                        |
| M6SF    | Sechskantschraube mit Flansch, metrisches Gewinde                              |
| HB      | Sechskantschraube, gebohrt und mit gepresstem Gewinde                          |
| M6SF-TT | Sechskantschraube mit Flansch, gepresstes Gewinde, Taptite, metrisches Gewinde |
| U6SF    | Sechskantschraube mit Flansch, Unified Gewinde                                 |
| U6SFT   | Sechskantschraube mit Flansch und Torx-Griff, Unified Gewinde                  |
| R-M6SF  | Sechskantschraube mit Flansch, rostfrei, metrisches Gewinde                    |

### Stiftschrauben

|       |  |
|-------|--|
| PS    | Stiftschraube                                  |
| PS-TT | Stiftschraube, mit gepresstes Gewinde, Taptite |

### Stoppschrauben

|        |   |
|--------|---|
| SSS    | Stoppschrauben mit Spur   |
| SSSS   | Stoppschrauben mit Spur und Spitze                                |
| SSST   | Stoppschrauben mit Spur und Zapfen                                |
| MP6SS  | Stoppschrauben, gerades Ende, Inbus-Sechskant, metrisches Gewinde |
| MSK6SS | Stoppschrauben, rundes Ende, Inbus-Sechskant, metrisches Gewinde  |
| MS6SS  | Stoppschrauben mit Spitze und Inbus-Sechskant, metrisches Gewinde |
| MT6SS  | Stoppschrauben mit Zapfen und Inbus-Sechskant, metrisches Gewinde |

### Vierkantstoppschrauben

|       |  |
|-------|--|
| T4SS  | Vierkantstoppschraube mit Zapfen, metrisches Gewinde |
| UT4SS | Vierkantstoppschraube mit Zapfen, Unified Gewinde    |
| US4SS | Vierkantstoppschraube mit Spitze, Unified Gewinde    |

### Kreuzspurschrauben

|         |  |
|---------|--|
| MRX     | Kreuzspurschraube, zylindrischer Kopf, metrisches Gewinde  |
| UCX     | Kreuzspurschraube, zylindrischer Kopf, Gewinde Unified   |
| RXS-ST  | Kreuzspurschraube, runder Kopf, gepresstes Gewinde   |
| SR-RXS  | Kreuzspurschraube, runder Kopf, säurefest, rostfrei  |
| URX     | Kreuzspurschraube, runder Kopf, Gewinde Unified  |
| RXB     | Kreuzspurschraube, gebohrtes und gepresstes Gewinde, runder Kopf   |
| LKXS    | Kreuzspurschraube, gepresstes Gewinde mit kugelförmigem Kopf   |
| MRXTT   | Kreuzspurschraube, gepresstes Gewinde, Taptite, metrisches Gewinde                                       |
| MFX     | Kreuzspurschraube, versenkter Kopf, metrisches Gewinde   |
| MKFX    | Kreuzspurschraube, kugelförmiger, versenkter Kopf, metrisches Gewinde                                    |
| UFX     | Kreuzspurschraube, versenkter Kopf, Gewinde Unified  |
| UKFX    | Kreuzspurschraube, kugelförmiger, versenkter Kopf, Gewinde Unified                                       |
| KFXS    | Kreuzspurschraube, kugelförmige, versenkter Kopf, spitzes Ende, gepresstes Gewinde                       |
| MFX-TT  | Kreuzspurschraube, gepresstes Gewinde, Taptite, versenkter Kopf, metrisches Gewinde                      |
| SR-MFX  | Kreuzspurschraube, versenkter Kopf, metrisches Gewinde, säurefest, rostfrei                              |
| SR-KFXS | Kreuzspurschraube, kugelförmiger, versenkter Kopf, spitzes Ende, gepresstes Gewinde, säurefest, rostfrei |



## Sechskantlochschrauben

|         |   |
|---------|---|
| MC6S    | Sechskantlochschraube, metrisches Gewinde                   |
| MLC6S   | Sechskantlochschraube, niedriger Kopf, metrisches Gewinde   |
| UC6S    | Sechskantlochschraube, Gewinde Unified                      |
| SR-UC6S | Sechskantlochschraube, Gewinde Unified, säurefest, rostfrei |

## Sechskantmutter

|       |   |
|-------|---|
| M6M   | Sechskantmutter, metrisches Gewinde             |
| MH6M  | Sechskantmutter, hoch, metrisches Gewinde       |
| ML6M  | Sechskantmutter, niedrig, metrisches Gewinde    |
| U6M   | Sechskantmutter, Gewinde Unified                |
| UH6M  | Sechskantmutter, hoch, Gewinde Unified          |
| UL6M  | Sechskantmutter, niedrig, Gewinde Unified       |
| R-M6M | Sechskantmutter, metrisches Gewinde, rostfrei   |
| R-U6M | Sechskantmutter, Gewinde Unified, rostfrei      |
| M6MF  | Sechskantmutter mit Flansch, metrisches Gewinde |
| U6MF  | Sechskantmutter mit Flansch, Gewinde Unified    |

## Kronmutter

|      |   |
|------|---|
| MKM  | Kronmutter, metrisches Gewinde          |
| UKM  | Kronmutter, Gewinde Unified             |
| MHKM | Kronmutter mit Hals, metrisches Gewinde |

## Federnder Rohrstift

|     |                     |
|-----|---------------------|
| FRP | Federnder Rohrstift |
|-----|---------------------|

## Lochniete

|     |                               |
|-----|-------------------------------|
| PHN | Lochniete, gerader Kopf       |
| KHN | Lochniete, kugelförmiger Kopf |
| FHN | Lochniete, versenkter Kopf    |

## Scherenstift

|    |              |
|----|--------------|
| SP | Scherenstift |
|----|--------------|

Gänge D/

Thread D Gewindegröße

s Schlüsselweite

k Höhe des Kopfes

e Abmessungen des Kopfes

L Länge

H Höhe

Stigning/

Pitch Abstand zwischen zwei aufeinander folgenden Gewindezapfen



## Abréviations (F)

### Vis à tête hexagonale

|         |  |
|---------|--|
| M6S     | Vis à tête hexagonale, filetage métrique                                   |
| U6S     | Vis à tête hexagonale, filetage unifié                                     |
| HS      | Vis à tête hexagonale, autotaraudeuse                                      |
| R-M6S   | Vis à tête hexagonale, filetage métrique, inoxydable                       |
| SR-U6S  | Vis à tête hexagonale, filetage unifié, inoxydable, résistant aux acides   |
| M6SF    | Vis à tête hexagonale à embase, filetage métrique                          |
| HB      | Vis à tête hexagonale, autotaraudeuse                                      |
| M6SF-TT | Vis à tête hexagonale à embase, autotaraudeuse, Taptite, filetage métrique |
| U6SF    | Vis à tête hexagonale à embase, filetage unifié                            |
| U6SFT   | Vis à tête hexagonale à embase avec "Torxgrip", filetage unifié            |
| R-M6SF  | Vis à tête hexagonale à embase, inoxydable, filetage métrique              |

### Goujons

|       |                                |
|-------|--------------------------------|
| PS    | Goujons                        |
| PS-TT | Goujons autotaraudeur, Taptite |

### Vis d'arrêt

|        |   |
|--------|---|
| SSS    | Vis d'arrêt avec gorge  |
| SSSS   | Vis d'arrêt avec gorge et pointe                              |
| SSST   | Vis d'arrêt avec gorge et téton                               |
| MP6SS  | Vis d'arrêt, plate, six pans intérieurs, filetage métrique    |
| MSK6SS | Vis d'arrêt, coupée, six pans intérieurs, filetage métrique   |
| MS6SS  | Vis d'arrêt, pointue, six pans intérieurs, filetage métrique  |
| MT6SS  | Vis d'arrêt à téton et six pans intérieurs, filetage métrique |

### Vis d'arrêt carrée

|       |  |
|-------|--|
| T4SS  | Vis d'arrêt carrée, filetage métrique        |
| UT4SS | Vis d'arrêt carrée, filetage unifié          |
| US4SS | Vis d'arrêt carrée, pointue, filetage unifié |

### Vis à empreinte cruciforme

|         |  |
|---------|--|
| MRX     | Vis à empreinte cruciforme, tête cylindrique, filetage métrique  |
| UCX     | Vis à empreinte cruciforme, tête cylindrique, filetage unifié  |
| RXS-ST  | Vis à empreinte cruciforme, tête ronde, autotaraudeuse   |
| SR-RXS  | Vis à empreinte cruciforme, tête ronde, inoxydable, résistant aux acides                                       |
| URX     | Vis à empreinte cruciforme, tête ronde, filetage unifié  |
| RXB     | Vis à empreinte cruciforme, forante et autotaraudeuse, tête ronde  |
| LKXS    | Vis à empreinte cruciforme, autotaraudeuse, tête convexe basse   |
| MRXTT   | Vis à empreinte cruciforme, autotaraudeuse, Taptite, filetage métrique   |
| MFx     | Vis à empreinte cruciforme, à tête encastrée, filetage métrique  |
| MKFX    | Vis à empreinte cruciforme, à tête convexe, filetage métrique  |
| UFx     | Vis à empreinte cruciforme, à tête encastrée, filetage unifié  |
| UKFX    | Vis à empreinte cruciforme, à tête convexe, filetage unifié  |
| KFXS    | Vis à empreinte cruciforme, à tête encastrée convexe, pointue, autotaraudeuse                                  |
| MFx-TT  | Vis à empreinte cruciforme, autotaraudeuse, Taptite, à tête encastrée, filetage métrique                       |
| SR-MFX  | Vis à empreinte cruciforme, à tête encastrée, inoxydable résistant aux acides, filetage métrique               |
| SR-KFXS | Vis à empreinte cruciforme, à tête encastrée convexe, pointue, autotaraudeuse, inoxydable résistant aux acides |



## Vis à six pans creux

|         |  |
|---------|--|
| MC6S    | Vis à six pans creux, filetage métrique                                |
| MLC6S   | Vis à six pans creux, tête basse, filetage métrique                    |
| UC6S    | Vis à six pans creux, filetage unifié                                  |
| SR-UC6S | Vis à six pans creux, filetage unifié, inoxydable résistant aux acides |

## Écrous hexagonaux

|       |  |
|-------|--|
| M6M   | Écrou hexagonal, filetage métrique             |
| MH6M  | Écrou hexagonal, haut, filetage métrique       |
| ML6M  | Écrou hexagonal, bas, filetage métrique        |
| U6M   | Écrou hexagonal, bas, filetage unifié          |
| UH6M  | Écrou hexagonal, haut, filetage unifié         |
| UL6M  | Écrou hexagonal, bas, filetage unifié          |
| R-M6M | Écrou hexagonal, filetage métrique, inoxydable |
| R-U6M | Écrou hexagonal, filetage unifié, inoxydable   |
| M6MF  | Écrou hexagonal à embase, filetage métrique    |
| U6MF  | Écrou hexagonal à embase, filetage unifié      |

## Écrou crénelé

|      |   |
|------|---|
| MKM  | Écrou crénelé, filetage métrique            |
| UKM  | Écrou crénelé, filetage unifié              |
| MHKM | Écrou à créneaux dégagés, filetage métrique |

## Goupille tubulaire élastique

|     |                              |
|-----|------------------------------|
| FRP | Goupille tubulaire élastique |
|-----|------------------------------|

## Rivet semi-tubulaire

|     |                                     |
|-----|-------------------------------------|
| PHN | Rivet semi-tubulaire, tête plate    |
| KHN | Rivet semi-tubulaire, tête arrondie |
| FHN | Rivet semi-tubulaire, tête fraisée  |

## Goupille fendue

|    |                 |
|----|-----------------|
| SP | Goupille fendue |
|----|-----------------|

|                      |   |
|----------------------|---|
| Gänga D/<br>Thread D | Dimension du filetage                             |
| s                    | Surplats (portée de la clé)                       |
| k                    | Hauteur maxi de la tête                           |
| e                    | Cote maxi de la tête                              |
| L                    | Longueur  |
| H                    | Hauteur   |
| Stigning/<br>Pitch   | Pas : distance qui sépare deux filets consécutifs |

## Abbreviazioni (I)

### Vite esagonale

|         |   |
|---------|---|
| M6S     | Vite esagonale, filettatura metrica                                 |
| U6S     | Vite esagonale, filettatura unificata                               |
| HS      | Vite esagonale, con filettatura spingente                           |
| R-M6S   | Vite esagonale, filettatura metrica, inossidabile                   |
| SR-U6S  | Vite esagonale, filettatura unificata, inossidabile                 |
| M6SF    | Vite esagonale con flangia, filettatura metrica                     |
| HB      | Vite esagonale, perforante e spingente                              |
| M6SF-TT | Vite esagonale con flangia, spingente, Taptite, filettatura metrica |
| U6SF    | Vite esagonale con flangia, filettatura unificata                   |
| U6SFT   | Vite esagonale con flangia e Torxgrip, filettatura unificata        |
| R-M6SF  | Vite esagonale con flangia, inossidabile, filettatura metrica       |

### Vite perno

|       |                                |
|-------|--------------------------------|
| PS    | Vite perno                     |
| PS-TT | Vite perno, spingente, Taptite |

### Vite di arresto

|        |  |
|--------|--|
| SSS    | Vite di arresto con scanalatura  |
| SSSS   | Vite di arresto con scanalatura e punta  |
| SSST   | Vite di arresto con scanalatura e perno  |
| MP6SS  | Vite di arresto, estremità piana, esagonale verso l'interno, filettatura metrica     |
| MSK6SS | Vite di arresto, estremità con testa, esagonale verso l'interno, filettatura metrica |
| MS6SS  | Vite di arresto con punta, esagonale verso l'interno, filettatura metrica            |
| MT6SS  | Vite di arresto con perno, esagonale verso l'interno, filettatura metrica            |

### Vite di arresto quadrangolare

|       |  |
|-------|--|
| T4SS  | Vite di arresto quadrangolare con perno, filettatura metrica   |
| UT4SS | Vite di arresto quadrangolare con perno, filettatura unificata |
| US4SS | Vite di arresto quadrangolare con punta, filettatura unificata |

### Vite con scanalatura a croce

|         |   |
|---------|---|
| MRX     | Vite con scanalatura a croce, testa cilindrica, filettatura metrica                                   |
| UCX     | Vite con scanalatura a croce, testa cilindrica, filettatura unificata                                 |
| RXS-ST  | Vite con scanalatura a croce, testa arrotondata, spingente  |
| SR-RXS  | Vite con scanalatura a croce, testa arrotondata, inossidabile   |
| URX     | Vite con scanalatura a croce, testa arrotondata, filettatura unificata                                |
| RXB     | Vite con scanalatura a croce, spingente e perforante, testa arrotondata                               |
| LKXS    | Vite con scanalatura a croce, spingente con testa bassa e incurvata                                   |
| MRXTT   | Vite con scanalatura a croce, spingente, Taptite, filettatura metrica                                 |
| MFY     | Vite con scanalatura a croce, testa abbassata, filettatura metrica                                    |
| MKFX    | Vite con scanalatura a croce, testa abbassata e incurvata, filettatura metrica                        |
| UFY     | Vite con scanalatura a croce, testa abbassata, filettatura unificata                                  |
| UKFX    | Vite con scanalatura a croce, testa abbassata e incurvata, filettatura unificata                      |
| KFXS    | Vite con scanalatura a croce, testa abbassata e incurvata, estremità a punta, spingente               |
| MFY-TT  | Vite con scanalatura a croce, spingente, Taptite, testa abbassata, filettatura metrica                |
| SR-MFY  | Vite con scanalatura a croce, testa abbassata, inossidabile, filettatura metrica                      |
| SR-KFXS | Vite con scanalatura a croce, testa abbassata e incurvata, estremità a punta, spingente, inossidabile |



## Vite a brugola

|         |  |
|---------|--|
| MC6S    | Vite a brugola, filettatura metrica                            |
| MLC6S   | Vite a brugola, testa basso, filettatura metrica               |
| UC6S    | Vite a brugola, filettatura unificata                          |
| SR-UC6S | Vite a brugola, filettatura unificata, spingente, inossidabile |

## Dado esagonale

|       |   |
|-------|---|
| M6M   | Dado esagonale, filettatura metrica                 |
| MH6M  | Dado esagonale, alto, filettatura metrica           |
| ML6M  | Dado esagonale, basso, filettatura metrica          |
| U6M   | Dado esagonale, filettatura unificata               |
| UH6M  | Dado esagonale, alto, filettatura unificata         |
| UL6M  | Dado esagonale, basso, filettatura unificata        |
| R-M6M | Dado esagonale, filettatura metrica, inossidabile   |
| R-U6M | Dado esagonale, filettatura unificata, inossidabile |
| M6MF  | Dado esagonale con flangia, filettatura metrica     |
| U6MF  | Dado esagonale con flangia, filettatura unificata   |

## Dado a corona

|      |  |
|------|--|
| MKM  | Dado a corona, filettatura metrica             |
| UKM  | Dado a corona, filettatura unificata           |
| MHKM | Dado a corona con collare, filettatura metrica |

## Perno tubolare a molla

|     |                        |
|-----|------------------------|
| FRP | Perno tubolare a molla |
|-----|------------------------|

## Rivetto

|     |                          |
|-----|--------------------------|
| PHN | Rivetto, testa piana     |
| KHN | Rivetto, testa incurvata |
| FHN | Rivetto, testa abbassata |

## Coppiglia

|    |           |
|----|-----------|
| SP | Coppiglia |
|----|-----------|

|                      |                         |
|----------------------|-------------------------|
| Gänga D/<br>Thread D | Dimensione filettatura  |
| s                    | Apertura chiave         |
| k                    | Altezza testa           |
| e                    | Misura massima testa    |
| L                    | Lunghezza               |
| H                    | Altezza                 |
| Stigning/<br>Pitch   | Passo della filettatura |

## Abreviaciones (E)

### Tornillo hexagonal

|         |  |
|---------|--|
| M6S     | Tornillo hexagonal, rosca métrica                                    |
| U6S     | Tornillo hexagonal, rosca unificada                                  |
| HS      | Tornillo hexagonal, rosca embutida                                   |
| R-M6S   | Tornillo hexagonal, rosca métrica, inoxidable                        |
| SR-U6S  | Tornillo hexagonal, rosca unificada, inoxidable antiácido            |
| M6SF    | Tornillo hexagonal con brida, rosca métrica                          |
| HB      | Tornillo hexagonal, taladrante y rosca embutida                      |
| M6SF-TT | Tornillo hexagonal con brida, rosca embutida, Taptite, rosca métrica |
| U6SF    | Tornillo hexagonal con brida, rosca unificada                        |
| U6SFT   | Tornillo hexagonal con brida y toma Torx, rosca unificada            |
| R-M6SF  | Tornillo hexagonal con brida, inoxidable, rosca métrica              |

### Espárrago

|       |                              |
|-------|------------------------------|
| PS    | Espárrago                    |
| PS-TT | Espárrago, embutido, Taptite |

### Tornillo de tope

|        |  |
|--------|--|
| SSS    | Tornillo de tope con ranura  |
| SSSS   | Tornillo de tope con ranura y punta                                    |
| SSST   | Tornillo de tope con ranura y muñón                                    |
| MP6SS  | Tornillo de tope, extremo plano, hexágono interior, rosca métrica      |
| MSK6SS | Tornillo de tope, extremo avellanado, hexágono interior, rosca métrica |
| MS6SS  | Tornillo de tope con punta, hexágono interior, rosca métrica           |
| MT6SS  | Tornillo de tope con muñón, hexágono interior, rosca métrica           |

### Tornillo de tope cuadrangular

|       |  |
|-------|--|
| T4SS  | Tornillo de tope cuadrangular con muñón, rosca métrica   |
| UT4SS | Tornillo de tope cuadrangular con muñón, rosca unificada |
| US4SS | Tornillo de tope cuadrangular con punta, rosca unificada |

### Tornillo cabeza cruciforme

|         |   |
|---------|---|
| MRX     | Tornillo cabeza cruciforme, cabeza cilíndrica, rosca métrica  |
| UCX     | Tornillo cabeza cruciforme, cabeza cilíndrica, rosca unificada  |
| RXS-ST  | Tornillo cabeza cruciforme, cabeza redondeada, rosca embutida   |
| SR-RXS  | Tornillo cabeza cruciforme, cabeza redondeada, inoxidable antiácido   |
| URX     | Tornillo cabeza cruciforme, cabeza redondeada, rosca unificada  |
| RXB     | Tornillo cabeza cruciforme, taladrante y embutido, cabeza redondeada  |
| LKXS    | Tornillo cabeza cruciforme, cabeza abovedada baja embutida  |
| MRXTT   | Tornillo cabeza cruciforme, embutido, Taptite, rosca métrica  |
| MFX     | Tornillo cabeza cruciforme, cabeza avellanada, rosca métrica  |
| MKFX    | Tornillo cabeza cruciforme, cabeza avellanada abovedada, rosca métrica                                      |
| UFX     | Tornillo cabeza cruciforme, cabeza avellanada, rosca unificada  |
| UKFX    | Tornillo cabeza cruciforme, cabeza avellanada abovedada, rosca unificada                                    |
| KFXS    | Tornillo cabeza cruciforme, cabeza avellanada abovedada, extremo puntiagudo, embutido                       |
| MFX-TT  | Tornillo cabeza cruciforme, embutido, Taptite, cabeza avellanada, rosca métrica                             |
| SR-MFX  | Tornillo cabeza cruciforme, cabeza avellanada, inoxidable antiácido, rosca métrica                          |
| SR-KFXS | Tornillo cabeza cruciforme, cabeza avellanada abovedada, extremo puntiagudo, embutido, inoxidable antiácido |



## **Tornillo perforado hexagonal**

|         |   |
|---------|---|
| MC6S    | Tornillo perforado hexagonal, rosca métrica                                   |
| MLC6S   | Tornillo perforado hexagonal, cabeza baja, rosca métrica                      |
| UC6S    | Tornillo perforado hexagonal, rosca unificada                                 |
| SR-UC6S | Tornillo perforado hexagonal, rosca unificada, embutido, inoxidable antiácido |

## **Tuercas hexagonales**

|       |  |
|-------|--|
| M6M   | Tuercas hexagonales, rosca métrica               |
| MH6M  | Tuercas hexagonales, rosca alta métrica          |
| ML6M  | Tuercas hexagonales, rosca baja métrica          |
| U6M   | Tuercas hexagonales, rosca unificada             |
| UH6M  | Tuercas hexagonales, rosca alta unificada        |
| UL6M  | Tuercas hexagonales, rosca baja unificada        |
| R-M6M | Tuercas hexagonales, rosca métrica, inoxidable   |
| R-U6M | Tuercas hexagonales, rosca unificada, inoxidable |
| M6MF  | Tuercas hexagonales con brida, rosca métrica     |
| U6MF  | Tuercas hexagonales con brida, rosca unificada   |

## **Tuerca almenada**

|      |   |
|------|---|
| MKM  | Tuerca almenada, rosca métrica              |
| UKM  | Tuerca almenada, rosca unificada            |
| MHKM | Tuerca almenada con garganta, rosca métrica |

## **Pasador elástico**

|     |                  |
|-----|------------------|
| FRP | Pasador elástico |
|-----|------------------|

## **Remache perforado**

|     |                                      |
|-----|--------------------------------------|
| PHN | Remache perforado, cabeza plana      |
| KHN | Remache perforado, cabeza abovedada  |
| FHN | Remache perforado, cabeza avellanada |

## **Pasador hendido**

|    |                 |
|----|-----------------|
| SP | Pasador hendido |
|----|-----------------|

|                      |                                      |
|----------------------|--------------------------------------|
| Gänga D/<br>Thread D | Dimensión para rosca                 |
| s                    | Toma de llave                        |
| k                    | Altura de cabeza                     |
| e                    | Dim. máx. cabeza                     |
| L                    | Largo                                |
| H                    | Alto                                 |
| Stigning/<br>Pitch   | Distancia entre dos machos de roscar |

## Afkortingen (NL)

### Zeskantbout

|         |   |
|---------|---|
| M6S     | Zeskantbout, metrische schroefdraad                               |
| U6S     | Zeskantbout, unieschroefdraad                                     |
| HS      | Zeskantbout, plaatbout  |
| R-M6S   | Zeskantbout, metrische schroefdraad, roestvast                    |
| SR-U6S  | Zeskantbout, unieschroefdraad, zuur- en roestvast                 |
| M6SF    | Zeskantbout met flens, metrische schroefdraad                     |
| HB      | Zeskantbout, plaatbout met boorkop                                |
| M6SF-TT | Zeskantbout met flens, plaatbout, Taptite, metrische schroefdraad |
| U6SF    | Zeskantbout met flens, unieschroefdraad                           |
| U6SFT   | Zeskantbout met flens en Torxgreep, unieschroefdraad              |
| R-M6SF  | Zeskantbout met flens, roestvast, metrische schroefdraad          |

### Tapeind

|       |                                |
|-------|--------------------------------|
| PS    | Tapeind                        |
| PS-TT | Tapeind, plaatschroef, Taptite |

### Borgschroef

|        |  |
|--------|--|
| SSS    | Borgschroef met spoor  |
| SSSS   | Borgschroef met spoor en punt  |
| SSST   | Borgschroef met spoor en pen   |
| MP6SS  | Borgschroef, vlak uiteinde, inwendig zeskant, metrische schroefdraad |
| MSK6SS | Borgschroef, hol uiteinde, inwendig zeskant, metrische schroefdraad  |
| MS6SS  | Borgschroef met punt en inwendig zeskant, metrische schroefdraad     |
| MT6SS  | Borgschroef met pen en inwendig zeskant, metrische schroefdraad      |

### Vierkante borgschroef

|       |   |
|-------|---|
| T4SS  | Vierkante borgschroef met pen, metrische schroefdraad |
| UT4SS | Vierkante borgschroef met pen, unieschroefdraad       |
| US4SS | Vierkante borgschroef met punt, unieschroefdraad      |

### Kruiskopschroeven

|         |  |
|---------|--|
| MRX     | Kruiskopschroef, cilindervormige kop, metrische schroefdraad                   |
| UCX     | Kruiskopschroef, cilindervormige kop, unieschroefdraad                         |
| RXS-ST  | Kruiskopschroef, ronde kop, plaatschroef                                       |
| SR-RXS  | Kruiskopschroef, ronde kop, zuur- en roestvast                                 |
| URX     | Kruiskopschroef, ronde kop, unieschroefdraad                                   |
| RXB     | Kruiskopschroef, plaatschroef met boorkop, ronde kop                           |
| LKXS    | Kruiskopschroef, plaatschroef met lage bolvormige kop                          |
| MRXTT   | Kruiskopschroef, plaatschroef, Taptite, metrische schroefdraad                 |
| MFX     | Kruiskopschroef, verzinkkop, metrische schroefdraad                            |
| MKFX    | Kruiskopschroef, bolvormige verzinkkop, metrische schroefdraad                 |
| UFX     | Kruiskopschroef, verzinkkop, unieschroefdraad                                  |
| UKFX    | Kruiskopschroef, bolvormige verzinkkop, unieschroefdraad                       |
| KFXS    | Kruiskopschroef, plaatschroef, bolvormige verzinkkop, punt                     |
| MFX-TT  | Kruiskopschroef, plaatschroef, Taptite, verzinkkop, metrische schroefdraad     |
| SR-MFX  | Kruiskopschroef, verzinkkop, metrische schroefdraad, zuur- en roestvast        |
| SR-KFXS | Kruiskopschroef, plaatschroef, bolvormige verzinkkop, punt, zuur- en roestvast |



## **Inbusbout**

|         |   |
|---------|---|
| MC6S    | Inbusbout, metrische schroefdraad               |
| MLC6S   | Inbusbout, lage kop, metrische schroefdraad     |
| UC6S    | Inbusbout, unieschroefdraad                     |
| SR-UC6S | Inbusbout, unieschroefdraad, zuur- en roestvast |

## **Zeskantmoer**

|       |  |
|-------|--|
| M6M   | Zeskantmoer, metrische schroefdraad            |
| MH6M  | Zeskantmoer, hoog, metrische schroefdraad      |
| ML6M  | Zeskantmoer, laag, metrische schroefdraad      |
| U6M   | Zeskantmoer, unieschroefdraad                  |
| UH6M  | Zeskantmoer, hoog, unieschroefdraad            |
| UL6M  | Zeskantmoer, laag, unieschroefdraad            |
| R-M6M | Zeskantmoer, metrische schroefdraad, roestvast |
| R-U6M | Zeskantmoer, unieschroefdraad, roestvast       |
| M6MF  | Zeskantmoer met flens, metrische schroefdraad  |
| U6MF  | Zeskantmoer met flens, unieschroefdraad        |

## **Kroonmoer**

|      |  |
|------|--|
| MKM  | Kroonmoer, metrische schroefdraad          |
| UKM  | Kroonmoer, unieschroefdraad                |
| MHKM | Kroonmoer met hals, metrische schroefdraad |

## **Verende holle pen**

|     |                   |
|-----|-------------------|
| FRP | Verende holle pen |
|-----|-------------------|

## **Holle klinknagel**

|     |                                  |
|-----|----------------------------------|
| PHN | Holle klinknagel, platte kop     |
| KHN | Holle klinknagel, bolvormige kop |
| FHN | Holle klinknagel, verzinkkop     |

## **Splitpen**

|    |          |
|----|----------|
| SP | Splitpen |
|----|----------|

|                      |  |
|----------------------|--|
| Gänga D/<br>Thread D | Dimensie voor schroefdraad                         |
| s                    | Sleutelbreedte                                     |
| k                    | Hoogte van de kop                                  |
| e                    | Maximum afmetingen van de kop                      |
| L                    | Lengte   |
| H                    | Hoogte   |
| Stigning/<br>Pitch   | Afstand tussen twee op elkaar volgende draadtappen |



## Abreviaturas (P)

### Parafusos hexagonais

|         |   |
|---------|---|
| M6S     | Parafusos hexagonais, rosca métrica                                 |
| U6S     | Parafusos hexagonais, rosca unificada                               |
| HS      | Parafusos hexagonais, rosca embutidora                              |
| R-M6S   | Parafusos hexagonais, rosca métrica, inoxidável                     |
| SR-U6S  | Parafusos hexagonais, rosca unificada, inoxidável, à prova de ácido |
| M6SF    | Parafusos hexagonais com colar, rosca métrica                       |
| HB      | Parafusos hexagonais, perfurante e embutidor                        |
| M6SF-TT | Parafusos hexagonais com colar, embutidor, Taptite, rosca métrica   |
| U6SF    | Parafusos hexagonais com colar, rosca unificada                     |
| U6SFT   | Parafusos hexagonais com colar e aperto Torx, rosca unificada       |
| R-M6SF  | Parafusos hexagonais com colar, inoxidável, rosca métrica           |

### Parafusos-pion

|       |                                    |
|-------|------------------------------------|
| PS    | Parafusos-pino                     |
| PS-TT | Parafusos-pino, embutidor, Taptite |

### Parafusos batentes

|        |   |
|--------|---|
| SSS    | Parafusos batentes com ranhura  |
| SSSS   | Parafusos batentes com ranhura e ponta                                |
| SSST   | Parafusos batentes com ranhura e coto                                 |
| MP6SS  | Parafusos batentes, ponta chata, orifício hexagonal, rosca métrica    |
| MSK6SS | Parafusos batentes, ponta abaulada, cavidade hexagonal, rosca métrica |
| MS6SS  | Parafusos batentes com ponta e cavidade hexagonal, rosca métrica      |
| MT6SS  | Parafusos batentes com coto e cavidade hexagonal, rosca métrica       |

### Parafusos batentes de cabeça quadrada

|       |   |
|-------|---|
| T4SS  | Parafusos batentes de cabeça quadrada, com coto, rosca métrica    |
| UT4SS | Parafusos batentes de cabeça quadrada, com coto, rosca unificada  |
| US4SS | Parafusos batentes de cabeça quadrada, com ponta, rosca unificada |

### Parafusos de ranhura em cruz

|         |  |
|---------|--|
| MRX     | Parafusos de ranhura em cruz, rosca métrica  |
| UCX     | Parafusos de ranhura em cruz, rosca unificada  |
| RXS-ST  | Parafusos de ranhura em cruz, embutidor  |
| SR-RXS  | Parafusos de ranhura em cruz, inoxidável, à prova de ácido   |
| URX     | Parafusos de ranhura em cruz, rosca unificada  |
| RXB     | Parafusos de ranhura em cruz, perfurante e embutidor   |
| LKXS    | Parafusos de ranhura em cruz, embutidor, com cabeça redonda e baixa  |
| MRXTT   | Parafusos de ranhura em cruz, embutidor, Taptite, rosca métrica  |
| MFX     | Parafusos de ranhura em cruz, cabeça frisada, rosca métrica  |
| MKFX    | Parafusos de ranhura em cruz, cabeça redonda e frisada, rosca métrica  |
| UFX     | Parafusos de ranhura em cruz, cabeça frisada, rosca unificada  |
| UKFX    | Parafusos de ranhura em cruz, cabeça redonda e frisada, rosca unificada  |
| KFXS    | Parafusos de ranhura em cruz, embutidor, cabeça redonda e frisada, ponta aguçada                               |
| MFX-TT  | Parafusos de ranhura em cruz, embutidor, Taptite, cabeça frisada, rosca métrica                                |
| SR-MFX  | Parafusos de ranhura em cruz, cabeça frisada, inoxidável, à prova de ácido, rosca métrica                      |
| SR-KFXS | Parafusos de ranhura em cruz, cabeça redonda e frisada, ponta aguçada, embutidor, inoxidável, à prova de ácido |



## Parafusos com cavidade hexagonal

|         |   |
|---------|---|
| MC6S    | Parafusos com cavidade hexagonal, rosca métrica                                 |
| MLC6S   | Parafusos com cavidade hexagonal, cabeça baixa, rosca métrica                   |
| UC6S    | Parafusos com cavidade hexagonal, rosca unificada                               |
| SR-UC6S | Parafusos com cavidade hexagonal, inoxidável, à prova de ácido, rosca unificada |

## Porcas hexagonais

|       |  |
|-------|--|
| M6M   | Porcas hexagonais, rosca métrica               |
| MH6M  | Porcas hexagonais, alta, rosca métrica         |
| ML6M  | Porcas hexagonais, baixa, rosca métrica        |
| U6M   | Porcas hexagonais, rosca unificada             |
| UH6M  | Porcas hexagonais, alta, rosca unificada       |
| UL6M  | Porcas hexagonais, baixa, rosca unificada      |
| R-M6M | Porcas hexagonais, inoxidável, rosca métrica   |
| R-U6M | Porcas hexagonais, inoxidável, rosca unificada |
| M6MF  | Porcas hexagonais com colar, rosca métrica     |
| U6MF  | Porcas hexagonais com colar, rosca unificada   |

## Porcas com ameia

|      |   |
|------|---|
| MKM  | Porcas com ameia, rosca métrica           |
| UKM  | Porcas com ameia, rosca unificada         |
| MHKM | Porcas com ameia e gargalo, rosca métrica |

## Pino de tubo elástico

|     |                        |
|-----|------------------------|
| FRP | Pino de tubo, elástico |
|-----|------------------------|

## Rebites perfurados

|     |                                  |
|-----|----------------------------------|
| PHN | Rebite perfurado, cabeça chata   |
| KHN | Rebite perfurado, cabeça redonda |
| FHN | Rebite perfurado, cabeça frisada |

## Chaveta fendida

|    |                 |
|----|-----------------|
| SP | Chaveta fendida |
|----|-----------------|

|                      |   |
|----------------------|---|
| Gänga D/<br>Thread D | Dimensão para rosca                           |
| s                    | Largura da chave                              |
| k                    | Altura da cabeça                              |
| e                    | Medida máxima da cabeça                       |
| L                    | Comprimento                                   |
| H                    | Altura  |
| Stigning/<br>Pitch   | Distância entre dois machos seguidos da rosca |

## Hållfasthetsklass (S)

Hållfasthetsklasserna betecknas med två tal åtskilda av en punkt.

Det finns ett antal olika klasser 4.6, 4.8, 5.8, 8.8, 10.9, 12.9 när det gäller skruvar.

När det gäller muttrar är de angivna enbart med en siffra ex. 5 eftersom sträckgränsen ej är medtagen.

Exempel för hållfasthetsklass 8.8 för skruv

Nominell brottgräns =  $8 \times 100 = 800 \text{ N/mm}^2$

Undre sträckgräns =  $8 \times 8 \times 10 = 640 \text{ N/mm}^2$

Valet av hållfasthetsklass har gjorts av konstruerande enhet beroende på de krav som ställts på artikeln.

Rätt skruv till rätt applikation hittas i reservdelskatalogen.

### Typ av gänga

På katalogsidorna anges gängan med olika beteckningar där man anger vilken typ av gänga det är.

|     |   |   |
|-----|---|---|
| M   | = | Metrisk grovgänga                         |
| MF  | = | Metrisk fingänga                          |
| UNC | = | Unified grovgänga                         |
| UNF | = | Unified fingänga                          |
| ST  | = | Gängpressande                             |
| TT  | = | Gängpressande<br>Liktjockformat tvärsnitt |



## Ytbehandling

På katalogsidorna förekommer beteckningar som FZB, FOS vilket är förkortningar av olika ytbehandlingar. Nedan följer ett förtydligande av dessa begrepp.

### **FZB Blankförzinkad**

Blankförzinkningen är i katalogen ett samlingsbegrepp för olika ytbehandlingsprocesser, som innebär att man belägger materialet med ett zinkskikt. Förzinkningen utförs för att föregripa att artikeln rostar, eftersom våra produkter förekommer i alla slags miljöer.

Zinkskiktets tjocklek är avgörande för hur lång tid det tar innan korrosion uppstår. För att ytterligare förbättra korrosionsskyddet kan en efterföljande kromatering genomföras. De nyförzinkade artiklarna doppas i en kromateringslösning där lösningens sammansättning är avgörande för vilken typ av kromatbeläggning som önskas.

Det förekommer 4 olika kromateringar:

- C1 = Blank kromatering
- C2 = Gul kromatering
- C3 = Grön kromatering
- C4 = Svart kromatering

Orsaken till användandet av olika kromateringar är att man fodrar ytterligare förbättrat korrosionsskydd där även vitrost uppstår på blankförzinkade efter en tid beroende på applicering och miljöpåverkande faktorer.

### **ZIB Zink-järn**

Elförzinkad zink-järnbeläggning med kromatering.

En ytterligare utveckling av korrosionsskyddet som innebär att man belägger materialet med ett skikt av zink-järn. Genom kromatering ökar skyddet mot zinklegeringens korrosion (virost).

### **FZV Varmförzinkad**

Fästelement som varmförzinkats sänks ner i smält zink som har en temperatur av 540°C.

Artikeln har dessförinnan genomgått en omfattande förbehandling.

Varmförzinkningsmetoden har valts beroende på att den skall klara olika krävande miljöer.

### **FOS Fosfatering**

Fosfatering är en kemisk process där järnet i stålets yta reagerar med processkemikalier. Beroende på fosfateringsbadets sammansättning erhålls (järn) zinkfosfat eller (järn) manganfosfat.

### **Lackering**

Är en vattendispersion som består av zinkflagor, kromater och organiska material.

Lackering tillämpas på artiklar av höghållfast stål, ex 10.9-skruv, som utsätts för svåra korrosionsförhållanden.

## Property class (GB)

Property classes are designated by two digits separated by a dot.

Screws and bolts have a number of different classes: 4.6, 4.8, 5.8, 8.8, 10.9 and 12.9.

Nuts are designated by only one digit, e.g., 5, since the yield limit is not included.

Examples of property class 8.8 for screws and bolts

Nominal ultimate stress limit =  $8 \times 100 = 800 \text{N/mm}^2$

Bellow yield point =  $8 \times 8 \times 10 = 640 \text{N/mm}^2$

The engineering designer unit selected the property class according to the demands that would be made on the part.

Consult the spare part catalogue to find the right screw or bolt for the right application.

## Types of threads

The catalogue lists the following lettered designations for the various types of threads:

|     |   |                             |
|-----|---|-----------------------------|
| M   | = | Metric coarse thread        |
| MF  | = | Metric fine thread          |
| UNC | = | Unified coarse thread       |
| UNF | = | Unified fine thread         |
| ST  | = | Selftapping                 |
| TT  | = | Thread forming              |
|     |   | Equally thick cross section |



## **Surface treatment**

The catalogue lists the designations FZB, FOS which are abbreviations for the different types of surface treatment. These are explained below.

### **FZB Bright galvanized**

Bright-galvanized in the catalogue is a general concept for a surface treatment process involving coating materials with a layer of zinc. This is to protect the part from rust, since our products are used in all sorts of environments.

The thickness of the zinc coat determines the length of time before corrosion sets in. Adding chrome coating will prolong this further. The new galvanized parts are dipped in a chrome solution, the composition of which decides the type of chrome coating to be added.

There are 4 different types of chromating:

- C1 = Bright
- C2 = Yellow
- C3 = Green
- C4 = Black

Their use has arisen to provide additional protection against rust due to environmental factors that can cause, e.g., white rust to appear on bright galvanizing.

### **ZIB Zinc-iron**

Electro-zincplated coating of zinc-iron with chromating.

A further development of the protection against corrosion involving coating materials with a layer of zinc-iron. Chromating improves the resistance of the zinc alloy to corrosion (white rust).

### **FZV Hot-dipped galvanized**

The binder that is hot-dipped galvanized is lowered into melted zinc that has a temperature of 540°C. Prior to this the part is comprehensively surface-treated. The hot-dipped galvanizing method has been chosen because of its ability to cope with various demanding environments.

### **FOS Phosphating**

Phosphating is a chemical process where the iron in the steel surface reacts with the process chemicals. The composition of the phosphating sheet determines whether the outcome is (iron) zinc-phosphate or (iron) manganese-phosphate.

### **Painting**

Is a water dispersion consisting of zinc flakes, chromates and organic materials.

Painting shall be used on parts of high strength steel, e.g. 10.9 screw, exposed to severe corrosive conditions.

## Haltbarkeitsklasse (D)

Die Haltbarkeitsklassen werden mit zwei durch einen Punkt voneinander getrennten Ziffern bezeichnet.

Es gibt eine Reihe unterschiedlicher Klassen, was Schrauben anbetrifft: 4.6, 4.8, 5.8, 8.8, 10.9, 12.9.

Was Muttern anbetrifft, werden sie nur mit einer Ziffer angegeben, z.B. einer 5. Die Strichgrenzen werden nicht mit angegeben.

Beispiel für die Haltbarkeitsklasse 8.8 für Schrauben

Nenn-Bruchgrenze =  $8 \times 100$  = 800 N/mm<sup>2</sup>

Untere Strichgrenze =  $8 \times 8 \times 10$  = 640 N/mm<sup>2</sup>

Die Wahl der Haltbarkeitsklasse erfolgte von der zuständigen Konstruktionsabteilung, je nach Anforderungen an den jeweiligen Artikel.

Die richtige Schraube für die richtige Anwendung finden Sie im Ersatzteilkatalog.

## Gewindetyp

Auf den Katalogseiten werden die Gewinde mit verschiedenen Bezeichnungen angegeben. Auch der Gewindetyp ist hier verzeichnet.

|     |   |   |
|-----|---|---|
| M   | = | Metrisches Grobgewinde                                |
| MF  | = | Metrisches Feingewinde                                |
| UNC | = | Grobgewinde, Unified                                  |
| UNF | = | Feingewinde, Unified                                  |
| ST  | = | Gepresstes Gewinde                                    |
| TT  | = | Gepresstes Gewinde,<br>gleichmäßig dicker Querschnitt |



## **Oberflächenbehandlung**

Auf den Katalogseiten kommen die Bezeichnungen FZB und FOS vorbei, die sich auf verschiedene Formen der Oberflächenbehandlung beziehen. Nachstehend sind diese Begriffe erklärt.

### **FZB Blank verzinkt**

Blankes Verzinken ist im Katalog ein Sammelbegriff für denjenigen Oberflächenbehandlungsprozeß, bei dem das Material mit einer Zinkschicht überzogen wird. Zink schützt den Artikel vor Rostbildung, da unsere Produkte in allen externen Umgebungen vorkommen.

Die Dicke der Zinkschicht ist entscheidend dafür, wie schnell Korrosion auftritt. Um den Rostschutz noch weiter zu verbessern, können die Teile nachträglich verchromt werden. Die neu verzinkten Artikel werden dabei in eine Chromatierungslösung getaucht, deren Zusammensetzung für den Typ der Chromatierungsbehandlung entscheidend ist.

Es kommen vier verschiedene Chromatierungen vor:

- C1 = Blankes Chromatieren
- C2 = Gelbes Chromatieren
- C3 = Grünes Chromatieren
- C4 = Schwarzes Chromatieren

Der Grund für die Anwendung verschiedener Chromatierungen liegt darin, daß man einen noch besseren Rostschutz dort fordert, wo je nach Auftragung und einwirkenden Faktoren auch noch Weißrost auf blank verzinkten Teilen auftreten kann.

### **ZIB Zink-Eisen**

Elektroverzinkte Zink-Eisenbeschichtung mit Chromatierung.

Eine Weiterentwicklung des Korrosionsschutzes, bei der das Material mit einer Zink-Eisen-Schicht überzogen wird. Durch Chromatierung ist ein effektiverer Schutz vor Korrosion (Weißrost) der Zinklegierung gewährleistet.

### **FZV Warmverzinkt**

Befestigungselemente, die warm verzinkt werden, taucht man in geschmolzenes Zink, das eine Temperatur von 540°C hat. Der Artikel wurde zuvor einer umfassenden Vorbehandlung unterzogen. Die Warmverzinkungsmethode wird gewählt, je nachdem, wie der Artikel in belastender Umgebung eingesetzt werden soll.

### **FOS Phosphatierung**

Phosphatierung ist ein chemischer Prozeß, bei dem das Eisen in der Oberfläche des Stahls mit Prozeßchemikalien reagiert. Je nach Zusammensetzung des Phosphatierungsbades erhält man (Eisen) Zinkphosphat oder (Eisen) Manganphosphat.

### **Lackierung**

Eine Wasserdispersion, die aus Zinkpigmenten, Chromaten und organischem Material besteht. Die Lackierung wird bei Teilen aus hochlegiertem Stahl eingesetzt, z.B. 10.9-Schrauben, die schweren Korrosionsbedingungen ausgesetzt sind.



## Classe de résistance (F)

Les classes de résistance sont désignées par deux chiffres séparés par un point.  
Il existe pour les vis et écrous diverses classes : 4.6, 4.8, 5.8, 8.8, 10.9, 12.9.

Les écrous sont désignés par un chiffre uniquement, par exemple 5, du fait que la limite d'élasticité n'est pas indiquée.

Exemples de classes de résistance pour les vis

|   |          |                         |
|---|----------|-------------------------|
| Limite supérieure nominale de sollicitation | = 8x100  | = 800 N/mm <sup>2</sup> |
| Limite inférieure d'élasticité              | = 8x8x10 | = 640 N/mm <sup>2</sup> |

Le Bureau d'Etudes a sélectionné la classe de résistance en fonction des contraintes que va subir la pièce.

Consultez le catalogue Pièces pour trouver la vis correcte pour une application donnée.

## Types de filetages

Dans le catalogue, les filetages sont indiqués avec différentes désignations qui correspondent au type de filet.

|     |   |                                      |
|-----|---|--------------------------------------|
| M   | = | Filetage à gros filet, métrique      |
| MF  | = | Filetage à pas fin, métrique         |
| UNC | = | Filetage à gros filet, unifié        |
| UNF | = | Filetage à pas fin, unifié           |
| ST  | = | Autotarauteur                        |
| TT  | = | Autotarauteur                        |
|     |   | Coupe transversale d'égale épaisseur |



## Traitement des surfaces

On trouvera dans le catalogue les désignations FZB, FOS qui sont les abréviations des divers types de traitement de surface.

### **FZB Galvanisation brillante**

Dans le catalogue les termes "Galvanisation brillante" désignent de manière générale le traitement de surface par application d'une couche de zinc. Ceci a pour objectif de protéger de la rouille nos produits utilisés dans des conditions difficiles.

L'épaisseur de la couche de zinc détermine la durée de résistance à la corrosion. Si l'on ajoute une couche de chrome, la résistance anticorrosion sera d'autant plus prolongée.

Les pièces galvanisées sont immergées dans une solution de chrome dont la composition détermine le type de protection chromique.

Il existe quatre types de chromage :

- C1 = Brillant
- C2 = Jaune
- C3 = Vert
- C4 = Noir

Leur utilisation est intervenue pour apporter une protection anticorrosion supplémentaire contre la rouille qui peut, par exemple, apparaître sous forme de rouille blanche sur une galvanisation brillante après un certain temps et suivant l'environnement.

### **ZIB Zinc-fer**

Revêtement de galvanisation zinc-fer avec chromage.

Un perfectionnement supplémentaire de la protection anticorrosion qui signifie l'application d'une couche de zinc-fer sur le matériau. Le chromage permet d'augmenter la protection anticorrosion de l'alliage de zinc (rouille blanche).

### **FZV Galvanisation à chaud**

L'élément de fixation qui a été galvanisé à chaud est trempé dans un bain de zinc à une température de 540°C. La pièce a préalablement subi un traitement de surface. La méthode de galvanisation à chaud a été choisie pour sa résistance notoire dans les conditions les plus difficiles.

### **FOS Phosphatation**

La phosphatation est un processus chimique dans lequel le fer de la tôle réagit avec les éléments chimiques. En fonction de la composition du bain d'immersion le fer retient le zinc ou le manganèse.

### **Laquage**

Une dispersion d'eau qui se compose d'écailles de zinc, de chromes et de matières organiques. Le laquage est appliqué sur les pièces en acier de grande résistance, par exemple les vis 10.9, soumises à des conditions difficiles au point de vue corrosion.

## Classe di resistenza (I)

Le classi di resistenza sono designate da due cifre separate da un punto.  
Le viti sono suddivise nelle classi di resistenza 4.6, 4.8, 5.8, 8.8, 10.9, 12.9.

Per quanto concerne i dadi sono indicati solo con una cifra, per esempio 5, in quanto il limite di snervamento non è indicato.

Esempio per classe di resistenza 8.8 per viti

|                              |          |                         |
|------------------------------|----------|-------------------------|
| Limite di rottura nominale   | = 8x100  | = 800 N/mm <sup>2</sup> |
| Limite minimo di snervamento | = 8x8x10 | = 640 N/mm <sup>2</sup> |

La scelta della classe di resistenza è stata effettuata dai progettisti in base ai requisiti tecnici dell'articolo.

Nel catalogo ricambi sono indicate le viti adeguate alle rispettive applicazioni.

## Tipo di filettatura

Nelle pagine dei cataloghi sono fornite le filettature con le differenti designazioni indicanti il tipo di filettatura.

|     |   |   |
|-----|---|---|
| M   | = | Filettatura metrica grossa                |
| MF  | = | Filettatura metrica fine                  |
| UNC | = | Filettatura unificata                     |
| UNF | = | Filettatura unificata fine                |
| ST  | = | Filettatura di spinta                     |
| TT  | = | Filettatura di spinta formato trasversale |



## **Trattamento della superficie**

Nelle pagine del catalogo troviamo designazioni tipo FZB, FOS, che sono abbreviazioni relative ai diversi trattamenti delle superfici. In basso vi illustriamo alcune di queste abbreviazioni.

### **FZB      Zincatura lucida**

La zincatura lucida è un concetto generale, usato nel catalogo per indicare diversi tipi di trattamento superficiale, tramite i quali si riveste il materiale con uno strato di zinco. La zincatura serve a prevenire l'attacco della ruggine, cui i nostri prodotti sono esposti in quanto utilizzati in tutti i tipi di ambienti. Lo spessore della zincatura determina la durata di resistenza alla ruggine. Per migliorare ulteriormente la difesa contro la corrosione, è possibile cromare le superfici precedentemente zincate. In tal caso, gli articoli zincati vengono immersi in una soluzione di cromo, la cui composizione chimica determina il tipo di cromatura che si otterrà.

Ci sono 4 tipi di cromature:

- C1            = Cromatura lucida
- C2            = Cromatura gialla
- C3            = Cromatura verde
- C4            = Cromatura nera

Lo scopo dell'uso di differenti tipi di cromatura risiede nel fatto che si preferisce assicurare una migliore protezione anticorrosione in quanto la ruggine bianca appare anche sui prodotti con zincatura lucida, a seconda delle applicazioni e dell'ambiente.

### **ZIB      Zinco-Ferro**

Elettrozincatura con rivestimento zinco-ferroso e cromatura.

Lo strato di rivestimento zinco-ferroso costituisce un ulteriore miglioramento della protezione antiruggine. La cromatura sovrastante serve poi a proteggere dalla corrosione dello zinco (ruggine bianca).

### **FZV      Zincatura calda**

L'elemento sottoposto a zincatura a caldo viene immerso in zinco fuso con una temperatura di 540°C. L'articolo è stato precedentemente trattato. Il metodo di zincatura caldo si usa quando le superfici da proteggere sono a contatto con ambienti corrosivi.

### **FOS      Fosfatazione**

La fosfatazione è un processo chimico nel quale si fanno reagire le molecole di ferro, presenti sulla superficie della lamiera d'acciaio, con determinate sostanze chimiche. A seconda del bagno di fosfatazione si ottiene una fosfatazione allo zinco (ferro) oppure al manganese (ferro).

### **Verniciatura**

Verniciatura a diffusione d'acqua che contiene particelle di zinco, cromo e materiale organico.

La verniciatura è adatta agli articoli di acciaio alto resistenziale, p.es. viti 10.9, soggette ad ambienti molto corrosivi.

## Clases de resistencia (E)

Las clases de resistencia se caracterizan con dos cifras separadas por un punto.  
Cuando se trata de tornillos, hay varias clases diferentes: 4.6, 4.8, 5.8, 8.8, 10.9, 12.9.

Cuando se trata de tuercas, se indica únicamente una cifra, p. ej. 5, puesto que no se incluye el límite de elongación.

Ejemplos de clase de resistencia 8.8 para tornillos

|                               |          |                         |
|-------------------------------|----------|-------------------------|
| Límite de rotura nominal      | = 8x100  | = 800 N/mm <sup>2</sup> |
| Límite inferior de elongación | = 8x8x10 | = 640 N/mm <sup>2</sup> |

La unidad constructora ha determinado la clase de seguridad en función de las exigencias que ha de satisfacer la pieza.

El tornillo correcto para la aplicación correcta se hallará en el catálogo de repuestos.

## Tipo de rosca

En las páginas del catálogo las diferentes roscas se indican con las abreviaciones siguientes.

|     |   |                                     |
|-----|---|-------------------------------------|
| M   | = | Rosca gruesa métrica                |
| MF  | = | Rosca fina métrica                  |
| UNC | = | Rosca gruesa unificada              |
| UNF | = | Rosca fina unificada                |
| ST  | = | Rosca embutida                      |
| TT  | = | Rosca embutida,<br>Sección uniforme |



## **Tratamiento superficial**

En las páginas del catálogo aparecen las abreviaciones FZB y FOS para indicar diferentes tratamientos superficiales. Sigue a continuación una aclaración a estos conceptos.

### **FZB Galvanizado brillante**

En el catálogo se trata de un concepto amplio de un proceso de tratamiento superficial que consta en revestir el material con una capa de zinc. El zincado evita que se oxide la pieza, puesto que nuestros productos se usan en muchos ambientes diferentes.

El espesor de la capa de zinc es decisivo para la duración de la pieza antes de que aparezca la corrosión. Para mejorar aún más la protección contra la corrosión puede hacerse un cromado posterior. Los artículos recién zincados se sumergen en una solución de cromo cuya composición es determinante para el tipo de revestimiento de cromo deseado.

Existen 4 tipos de cromado diferentes:

- C1 = Cromado brillante
- C2 = Cromado amarillo
- C3 = Cromado verde
- C4 = Cromado negro

La razón de estos diversos tipos es la exigencia de mejorar la protección contra la corrosión en los lugares donde aparece óxido blanco en piezas zincadas después de algún tiempo, según la aplicación ya factores ambientales.

### **ZIB Hierro galvanizado**

Hierro electrolgalvanizado y cromado.

Un perfeccionamiento de la protección anticorrosión consistente en revestir el material con una capa de hierro galvanizado. Con el cromado se intensifica la protección contra la corrosión de la aleación de zinc (oxidación blanca).

### **FZV Zincado en caliente**

Los elementos de fijación que se zincan en caliente son sumergidos dentro de zinc fundido a una temperatura de 540°C. Previamente la pieza ha sido sometida a una minuciosa preparación. Este método de zincado en caliente ha sido elegido debido a que confiere a la pieza una gran resistencia en diferentes ambientes.

### **FOS Fosfatado**

Es un proceso químico en el que el hierro superficial reacciona con los productos químicos del proceso. Según la composición del baño de fosfatado se obtiene fosfato de zinc o fosfato de mangano.

### **Lacado**

Una dispersión de agua compuesta por escamas de zinc, cromados y materiales orgánicos. El lacado se aplica en artículos de acero de gran resistencia (como tornillos 10.9) que son expuestos a condiciones de corrosión duras.

## Sterkteklasse (NL)

De sterkteklassen worden aangegeven door twee getallen die door een punt van elkaar gescheiden zijn.

Wat de schroeven betreft, zijn er een aantal verschillende klassen 4.6, 4.8, 5.8, 8.8, 10.9, 12.9.

Wat de moeren betreft, worden ze uitsluitend aangegeven met één cijfer, b.v. 5, omdat de strekgrens niet wordt aangegeven.

Voorbeelden van sterkteklasse 8.8. voor schroeven

Nominale breuksterkte = 8x100 = 800 N/mm<sup>2</sup>

Onder de strekgrens = 8x8x10 = 640 N/mm<sup>2</sup>

De sterkteklasse werd door de constructie-eenheid gekozen in functie van de eisen die aan het artikel worden gesteld.

In de reserveonderdelenkatalogus vindt u de juiste schroef voor de juiste toepassing.

## Type schroefdraad

Op de katalogusbladzijden hebben de schroefdraden verschillende benamingen die aangeven om welk type schroefdraad het gaat.

- M = metrische schroefdraad
- MF = metrische fijne schroefdraad
- UNC = unieschroefdraad
- UNF = fijne unieschroefdraad
- ST = schroefdraad voor plaatschroef
- TT = schroefdraad voor plaatschroef,  
Gelijkverdikkingsformaat doorsnede



## **Oppervlaktebehandeling**

Op de catalogusbladzijden staan aanduidingen zoals FZB, FOS die verkortingen zijn van verschillende oppervlaktebehandelingen. Hieronder worden deze begrippen verduidelijkt.

### **FZB      Blankverzinkt**

In de catalogus wordt blankverzinkt gebruikt als een collectief begrip voor een oppervlaktebehandelingsproces dat inhoudt dat men het materiaal bekleedt met een zinklaag. Het verzinken wordt uitgevoerd om te voorkomen dat het artikel roest, gezien het feit dat onze producten in alle soorten omgevingen worden gebruikt.

De dikte van de zinklaag is van doorslaggevend belang voor de roestvastheid van het artikel. Om de anticorrosiebescherming nog meer te verbeteren kan men het artikel na het verzinken behandelen met chromaat. De pas verzinkte artikelen worden in een chromaatoplossing gedompeld. De samenstelling van de oplossing bepaalt het soort chromaatlaag.

Er worden vier soorten chromaatbehandelingen gebruikt:

- C1        = blank chromaat
- C2        = geel chromaat
- C3        = groen chromaat
- C4        = zwart chromaat

De reden dat men verschillende chromaatbehandelingen gebruikt, is dat men een betere anti-corrosiebescherming nodig heeft, omdat er ook op blankverzinkte oppervlakken witte roest kan ontstaan, afhankelijk van het aanbrengen en andere factoren die de omgeving beïnvloeden.

### **ZIB      Zink-ijzer**

Electroverzinkte laag van zink-ijzer met chromaat.

Een verdere ontwikkeling van de anticorrosiebescherming waarbij de artikelen een zink-ijzer buitenlaag krijgen. Het chromaat verhoogt de corrosieweerstand van het zink-ijzer tegen witte roest.

### **FZV      Warmverzinkt**

Bevestigingselementen die warm worden verzinkt, worden ondergedompeld in gesmolten zink met een temperatuur van 540°C. Daarvoor heeft het artikel een uitgebreide voorbehandeling ondergaan. Deze warmverzinkingsmethode werd gekozen omdat ze bestand is tegen verschillende veeleisende omgevingen.

### **FOS      Fosfateren**

Fosfateren is een chemisch proces waarbij het ijzer in het oppervlak van het staal reageert met de proceschemicaliën. Afhankelijk van de samenstelling van het fosfaatbad ontstaat er (ijzer) zinkfosfaat of (ijzer) mangaanfosfaat.

### **Verven**

Is een speciale wateremulsië bestaande uit zinkvlokken, chromaten en organische materialen. Vooral artikelen met een hoge sterkteklasse die blootgesteld zijn aan sterk corrosieve omstandigheden worden geleverd, bijvoorbeeld een 10.9 schroef.



## Classes de resistência (P)

As classes de resistência dos materiais são designadas por dois algarismos com um ponto no meio.

Há 6 classes diferentes : 4.6, 4.8, 5.8, 8.8, 10.9, 12.9 para os parafusos.

Quando se trata de porcas indica-se só com um algarismo, por exemplo 5 dado que não se indica o limite de estiramento.

Exemplo da classe de resistência 8.8 para parafuso :

Limite nominal de rotura =  $8 \times 100$  = 800 N/mm<sup>2</sup>

Limite inferior de estriamento =  $8 \times 8 \times 10$  = 640 N/mm<sup>2</sup>

A selecção da classe de resistência foi feita pela unidade de construgão, dependente das normas que a peça tem que satisfazer.

O parafuso correcto para a finalidade correcta encontra-se no catálogo das peças sobresselentes.

### Tipo de rosca

As abreviaturas das roscas das páginas do catálogo indicam quais são os tipos das roscas.

- M = Rosca grossa métrica
- MF = Rosca fina métrica
- UNC = Rosca grossa unificada
- UNF = Rosca fina unificada
- ST = Rosca embutidora
- TT = Rosca embutidora, parte uniforme



## **Tratamento da superfície**

Há páginas do catálogo que têm as abreviaturas FZB, FOS que indicam diferentes tipos de tratamento da superfície. Esses termos são explicados aqui em baixo.

### **FZB Zincagem lisa**

A zincagem lisa indicada no catálogo, é uma designação geral de um processo de tratamento de superfícies, que significa que o material é revestido com uma camada de zinco. A zincagem é feita para impedir o enferrujamento da peça, dado que os nossos produtos existem em todos os tipos de ambientes.

A espessura da camada de zinco é decisiva para a duração da resistência à corrosão. A protecção anti-corrosiva pode ser ainda mais aperfeiçoada se for cromada. As peças recém-zincadas são imersas numa solução de crómio, cuja composição é decisiva para o tipo de camada de crómio que se deseja.

Há quatro tipos diferentes de cromados :

- C1 = Cromado brilhante
- C2 = Cromado amarelo
- C3 = Cromado verde
- C4 = Cromado preto

A razão do uso de diferentes cromados é que é necessário uma protecção anti-corrosiva mais aperfeiçoada, que abrange também a oxidação branca, a qual surge passado um tempo nas superfícies com zincagem lisa, dependente da aplicação e dos factores do ambiente.

### **ZIB Zinco-ferro**

Revestimento zincado de zinco-ferro com cromagem.

Um desenvolvimento da protecção anti-corrosiva que significa que o material é revestido com uma camada de zinco-ferro. Através da cromagem é aumentada a protecção contra a corrosão da liga de zinco (ferrugem branca).

### **FZV Zincagem quente**

As peças de fixação que são zincadas quentes são imersas em zinco derretido que tem uma temperatura de 540°C. A peça passou antes por um vasto pré-tratamento. O método de zincagem quente é escolhido quando as peças têm que resistir a ambientes difíceis.

### **FOS Fosfatagem**

A fosfatagem é um processo químico no qual o ferro da superfície do aço reage com substâncias num processo químico. A composição do banho de fosfatagem determina se obtem fosfato de zinco ou fosfato de manganésio.

### **Pintura final**

É uma dispersão de água composta de flocos de zinco, cromatos e material orgânico.

Esta pintura é usada em artigos de aço de alta resistência, excl. parafusos 10.9, que estão expostos a condições de corrosão difíceis.

**M6SF M-gänga, Små nyckelvidder**  
**M6SF M-thread, Small widths across flats**

| <b>Gänga D</b><br><b>Thread D</b> | <b>M6</b> | <b>M7</b> | <b>M8</b> | <b>M10</b> | <b>M12</b> | <b>M14</b> | <b>M16</b> |
|-----------------------------------|-----------|-----------|-----------|------------|------------|------------|------------|
| Stigning<br>Pitch                 | 1         | 1         | 1,25      | 1,5        | 1,75       | 2          | 2          |
| s                                 | 8         | 10        | 10        | 13         | 15         | 18         | 21         |
| k                                 | 6,8       | 7,6       | 8,5       | 9,7        | 11,5       | 12,9       | 15,1       |
| Fläns Ø<br>Flange Ø               | 13,2      | 15,1      | 17        | 20,8       | 24,7       | 30,5       | 32,8       |

**M6SF M-gänga, Normala nyckelvidder**  
**M6SF M-thread, Standard widths across flats**

| <b>Gänga D</b><br><b>Thread D</b> | <b>M5</b> | <b>M6</b> | <b>M7</b> | <b>M8</b> | <b>M10</b> | <b>M12</b> | <b>M14</b> | <b>M16</b> |
|-----------------------------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|
| Stigning<br>Pitch                 | 0,8       | 1         | 1         | 1,25      | 1,5        | 1,75       | 2          | 2          |
| s                                 | 8         | 10        | 10        | 12        | 14         | 17         | 18         | 21         |
| k                                 | 5         | 6,5       | 7,6       | 8,2       | 10         | 11,5       | 15,1       | 16,9       |
| Fläns Ø<br>Flange Ø               | 11        | 13,8      | 15,1      | 17,7      | 21,6       | 26         | 28,6       | 32,8       |
| Stor fläns Ø<br>Large flange Ø    |           | 15,4      |           | 20,5      |            |            | 30,5       |            |

**M6S 8,8 M-gänga**  
**M6S 8,8 M-thread**

| <b>Gänga D<br/>Thread D</b> | <b>M4</b> | <b>M5</b> | <b>M6</b> | <b>M7</b> | <b>M8</b> | <b>M10</b> | <b>M12</b> |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| Stigning<br>Pitch           | 0,7       | 0,8       | 1         | 1         | 1,25      | 1,5        | 1,75       |
| s                           | 7         | 8         | 10        | 11        | 13        | 16 (17)    | 18 (19)    |
| k                           | 2,8       | 3,5       | 4         | 4,8       | 5,3       | 6,4        | 7,5        |
| e                           | 7,7       | 8,8       | 11,11     | 12,1      | 14,4      | 18,9       | 21,1       |
| L <sub>1</sub> -125mm       | 14        | 16        | 18        | 20        | 22        | 26         | 30         |
| 125-200                     |           | 22        | 24        | 26        | 28        | 32         | 36         |
| 200-                        |           |           |           |           |           | 45         | 49         |

| <b>Gänga D<br/>Thread D</b> | <b>M14</b> | <b>M16</b> | <b>M18</b> | <b>M20</b> | <b>M24</b> |
|-----------------------------|------------|------------|------------|------------|------------|
| Stigning<br>Pitch           | 2          | 2          | 2,5        | 2,5        | 3          |
| s                           | 21 (22)    | 24         | 27         | 30         | 36         |
| k                           | 8,8        | 10         | 11,5       | 12,5       | 15         |
| e                           | 24,5       | 26,8       | 30,1       | 33,5       | 40         |
| L <sub>1</sub> -125mm       | 34         | 38         | 42         | 46         | 54         |
| 125-200                     | 40         | 44         | 48         | 52         | 6          |
| 200-                        | 53         | 57         | 61         | 65         | 73         |

**M6S 10,9 MF-gänga**  
**M6S 10,9 MF-thread**

| <b>Gänga D<br/>Thread D</b> | <b>M8</b> | <b>M10</b> | <b>M14</b> | <b>M16</b> | <b>M18</b> |
|-----------------------------|-----------|------------|------------|------------|------------|
| Stigning<br>Pitch           | 1         | 1,25       | 1,5        | 1,5        | 1,5        |
| s                           | 13        | 17         | 21         | 24         | 27         |
| k                           | 5,3       | 6,4        | 8,8        | 10         | 12,2       |
| e                           | 14,4      | 18,9       | 24,5       | 27,7       | 30,1       |
| L <sub>1</sub> -125mm       | 22        | 26         | 34         | 38         | 42         |
| 125-200                     | 28        | 32         | 40         | 44         | 48         |
| 200-                        |           | 45         | 53         | 57         | 61         |

**U6S 8,8 UNC-gänga**  
**U6S 8,8 UNC-thread**

| <b>Gänga D</b><br><b>Thread D</b> | <b>1/4</b><br><b>UNF</b> | <b>5/16</b><br><b>UNF</b> | <b>3/8</b><br><b>UNF</b> | <b>7/16</b><br><b>UNF</b> | <b>1/2</b><br><b>UNF</b> | <b>9/16</b><br><b>UNF</b> | <b>5/8</b><br><b>UNF</b> |
|-----------------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
| Gängor/Tum<br>Thread/Inch         | 20                       | 18                        | 16                       | 14                        | 13                       | 12                        | 11                       |
| s/Tum<br>s/Inch                   | 7/16                     | 1/2                       | 14,3                     | 15,9                      | 19                       | 20,6                      | 23,8                     |
| s/mm                              | 11,1                     | 12,7                      | 16,5                     | 18,3                      | 22                       | 23,8                      | 27,5                     |
| k                                 | 4                        | 5,2                       | 6                        | 7,1                       | 7,9                      | 9,1                       | 9,9                      |
| e                                 | 12,8                     | 14,7                      | 16,5                     | 18,3                      | 22                       | 23,8                      | 27,5                     |
| Längd - 152 mm<br>Length - 152mm  | 19                       | 22                        | 25                       | 28                        | 32                       | 35                        | 38                       |

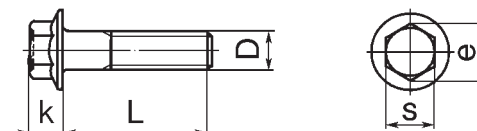
| <b>Gänga D</b><br><b>Thread D</b> | <b>3/4</b><br><b>UNC</b> | <b>7/8</b><br><b>UNC</b> | <b>1</b><br><b>UNC</b> |
|-----------------------------------|--------------------------|--------------------------|------------------------|
| Gängor/Tum<br>Thread/Inch         | 10                       | 9                        | 8                      |
| s/Tum<br>s/Inch                   | 28,6                     | 33,3                     | 38,1                   |
| s/mm                              | 33                       | 38,5                     | 44                     |
| k                                 | 11,9                     | 13,9                     | 15,5                   |
| e                                 | 33                       | 38,5                     | 44                     |
| Längd - 152 mm<br>Length - 152mm  | 44                       | 51                       | 57                     |

**U6S 8,8 UNF-gänga**  
**U6S 8,8 UNF-thread**

| <b>Gänga D</b><br><b>Thread D</b> | <b>1/4</b><br><b>UNF</b> | <b>5/16</b><br><b>UNF</b> | <b>3/8</b><br><b>UNF</b> | <b>7/16</b><br><b>UNF</b> | <b>1/2</b><br><b>UNF</b> | <b>9/16</b><br><b>UNF</b> | <b>5/8</b><br><b>UNF</b> | <b>3/4</b><br><b>UNF</b> | <b>7/8</b><br><b>UNF</b> |
|-----------------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| Gängor/Tum<br>Thread/Inch         | 28                       | 24                        | 24                       | 20                        | 20                       | 18                        | 18                       | 16                       | 14                       |
| s/Tum<br>s/Inch                   | 7/16                     | 1/2                       | 9/16                     | 5/8                       | 3/4                      | 13/16                     | 15/16                    | 1 1/8                    | 15/16                    |
| s/mm                              | 11,1                     | 12,7                      | 14,3                     | 15,9                      | 19                       | 20,6                      | 23,8                     | 28,6                     | 33,3                     |
| k                                 | 4                        | 5,2                       | 6                        | 7,1                       | 7,9                      | 9,1                       | 9,9                      | 11,9                     | 13,9                     |
| e                                 | 12,8                     | 14,7                      | 16,5                     | 18,3                      | 22                       | 23,8                      | 27,5                     | 33                       | 38,5                     |
| Längd - 152 mm<br>Length - 152mm  | 19                       | 22                        | 25                       | 28                        | 32                       | 35                        | 38                       | 44                       | 51                       |

**M6SF 8.8 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

**M6SF 8.8 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**



STD drawing 1052336, 1053374 <sup>1)</sup>, 1052258 <sup>2)</sup>, 1052448 <sup>3)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M5x20              | 965201                  | M10x22             | 965219                  |
| M6x10              | 945358                  | M10x25             | 946329                  |
| M6x12              | 965175                  | M10x30             | 946472                  |
| M6x14              | 945414                  | M10x35             | 946752                  |
| M6x16              | 946544                  | M10x40             | 965185                  |
| M6x20              | 946934                  | M10x45             | 965220                  |
| M6x22              | 965211                  | M10x50             | 965186                  |
| M6x25              | 947542                  | M10x55             | 965221                  |
| M6x30              | 948356                  | M10x60             | 965187                  |
| M6x35              | 965212                  | M10x65             | 965222                  |
| M6x40              | 965176                  | M10x70             | 965188                  |
| M6x45              | 965213                  | M10x75             | 965223                  |
| M6x50              | 965177                  | M10x80             | 947790                  |
| M6x60              | 965178                  | M10x90             | 965189                  |
| M6x75              | 968877                  | M10x100            | 965190                  |
| M8x12              | 947107                  | M10x100            | 969499 <sup>2)</sup>    |
| M8x14              | 944926                  | M10x110            | 969313                  |
| M8x16              | 946440                  | M10x120            | 968237                  |
| M8x20              | 946173                  | M10x130            | 973096                  |
| M8x22              | 965215                  | M10x140            | 973097                  |
| M8x25              | 945444                  | M10x145            | 968682 <sup>1)</sup>    |
| M8x30              | 946671                  | M10x150            | 973098                  |
| M8x35              | 946470                  | M12x20             | 946502                  |
| M8x40              | 947760                  | M12x25             | 946817                  |
| M8x45              | 948217                  | M12x30             | 965191                  |
| M8x50              | 973924 <sup>2)</sup>    | M12x35             | 965225                  |
| M8x55              | 965216                  | M12x40             | 965192                  |
| M8x60              | 965180                  | M12x45             | 965226                  |
| M8x65              | 965217                  | M12x50             | 965193                  |
| M8x70              | 965181                  | M12x55             | 965227                  |
| M8x75              | 965218                  | M12x60             | 965194                  |
| M8x80              | 965182                  | M12x65             | 948039                  |
| M8x85              | 969189                  | M12x70             | 965195                  |
| M8x90              | 965183                  | M12x80             | 965196                  |
| M8x100             | 965184                  | M12x85             | 967760                  |
| M8x105             | 981752 <sup>3)</sup>    | M12x90             | 946473                  |
| M8x110             | 968842                  | M12x100            | 965197                  |
| M8x115             | 968553                  | M12x110            | 965229                  |
| M8x120             | 969225                  | M12x120            | 946474                  |
| M8x130             | 968999                  | M12x130            | 979934                  |
| M8x140             | 968892                  | M12x140            | 973967                  |
| M8x150             | 968893                  | M12x150            | 978447                  |
| M8x170             | 968699 <sup>3)</sup>    | M12x160            | 979935                  |
| M8x210             | 976563 <sup>3)</sup>    | M12x170            | 982288                  |
| M10x14             | 946670                  | M12x190            | 981791                  |
| M10x16             | 946471                  | M12x200            | 982300                  |
| M10x20             | 946441                  | M14x30             | 966356                  |

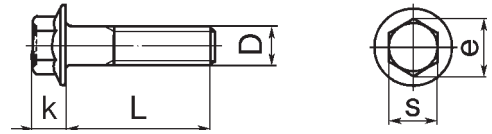


## M6SF 8.8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

## M6SF 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated



STD drawing 1052336, 1053374 <sup>1)</sup>, 1052258 <sup>2)</sup>, 1052448 <sup>3)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M14x35             | 966357                  | M14x160            | 979659                  |
| M14x40             | 966358                  | M16x35             | 968589                  |
| M14x50             | 966360                  | M16x40             | 968435                  |
| M14x55             | 966361                  | M16x50             | 968436                  |
| M14x60             | 966362                  | M16x55             | 968235                  |
| M14x65             | 966363                  | M16x60             | 968297                  |
| M14x70             | 966364                  | M16x70             | 968302                  |
| M14x75             | 968753                  | M16x80             | 968437                  |
| M14x80             | 966365                  | M16x90             | 968298                  |
| M14x90             | 966366                  | M16x100            | 968591                  |
| M14x100            | 966367                  | M16x110            | 968592                  |
| M14x110            | 966368                  | M16x120            | 968593                  |
| M14x120            | 966369                  | M16x150            | 974573                  |
| M14x140            | 966371                  | M16x160            | 968299                  |
| M14x150            | 979936                  | M16x180            | 982375                  |

## M6SF 8.8 M-gänga zib

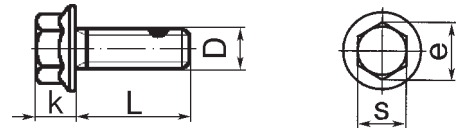
Elförzinkade zink-järn, svartkromaterade

Med friktionsgivande element

## M6SF 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated

With prevailing torque feature

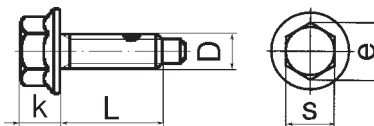


STD drawing 1052152

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M6x12              | 967949                  | M10x20             | 967731                  |
| M8x16              | 966378                  | M10x25             | 968233                  |
| M8x20              | 949853                  | M10x50             | 968234                  |
| M8x25              | 968232                  | M12x25             | 949708                  |
| M8x30              | 948336                  | M12x30             | 949199                  |
| M8x35              | 968288                  | M12x40             | 968958                  |
| M8x40              | 969986                  | M12x50             | 949793                  |
| M8x50              | 977275                  | M12x90             | 968031                  |
| M10x16             | 968621                  |                    |                         |

**M6SF 8.8 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

Med friktionsgivande element, Med tapp



**M6SF 8.8 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

With prevailing torque feature, With dog point

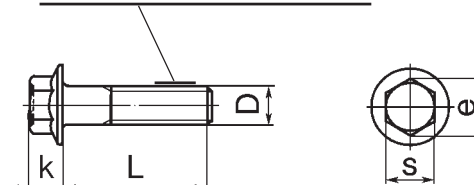
STD drawing 1052019

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x20             | 979924                  |           |                         |

**M6SF 8.8 M-gänga zib**  
**Elförzinkad zink-järn, svartkromaterade**

Med friktionsgivande element

Prevailing torque feature, location STD 7121,161  
 Note! Coated all around ( $\alpha = 360^\circ$ )



**M6SF 8.8 M-thread zib**  
**Electro-zinkplated zinc-iron, black chromated**

With prevailing torque feature

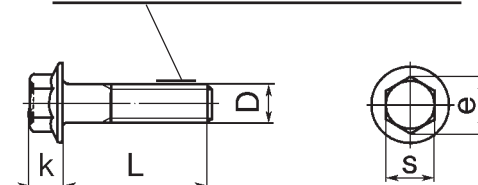
STD drawing 1058288

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M10x25             | 983828                  |           |                         |

**M6SF 8.8 M-gänga zib**  
**Elförzinkad zink-järn, svartkromaterade**

Med mikrokapslad låsvätska

Mikrokapslad låsvätska runt om/  
 Micro-encapsulated locking fluid all around



**M6SF 8.8 M-thread zib**  
**Electro-zinkplated zinc-iron, black chromated**

With micro-encapsulated locking fluid

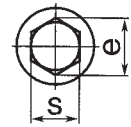
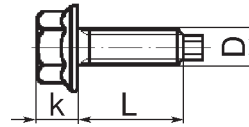
STD drawing 1053126

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x130             | 981369                  |           |                         |
| M12x35             | 973200                  |           |                         |



**M6SF 8.8 M-gänga zib****Elförzinkade zink-järn, svartkromaterade**

Med tapp och nyckeltag

**M6SF 8.8 M-thread zib****Electro-zincplated zinc-iron, black chromated**

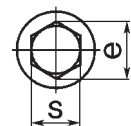
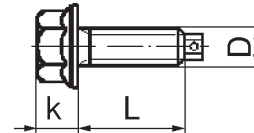
With dog point and wrench grip

**STD drawing 1052155**

| <b>Dimension<br/>D x L</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|------------------|---------------------------------|
| M12x195                    | 969222                          |                  |                                 |

**M6SF 8.8 M-gänga zib****Elförzinkad zink-järn, svartkromaterade**

Med sexkantstapp och hål för låstråd i tappen

**M6SF 8.8 M-thread zib****Electro-zinkplated zinc-iron, black chromated**

With hexagon dog point and hole for locking wire in dog point

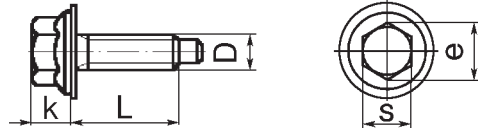
**STD drawing 1053239**

| <b>Dimension<br/>D x L</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|------------------|---------------------------------|
| M8x38                      | 977107                          |                  |                                 |

## M6SF 8.8 M-gänga zib

Elförzinkad zink-järn, svartkromaterade

Med oförlorbara brickor och fasad lokaliseringstapp



## M6SF 8.8 M-thread zib

Electro-zinkplated zinc-iron, black chromated

With captive washers and chamfered dog point

STD drawing 1052427

Dimension  
D × L

Artikel nr.  
Part No.

Dimension

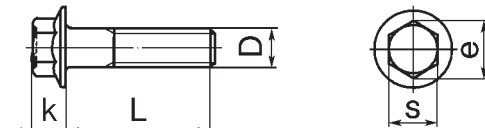
Artikel nr.  
Part No.

M12x135

975567

## M6SF 8.8 MF-gänga

Elförzinkad zink-järn, svartkromaterade



## M6SF 8.8 MF-thread

Electro-zinkplated zinc-iron, black chromated

STD drawing 1052631

Dimension  
D × L

Artikel nr.  
Part No.

Dimension  
D × L

Artikel nr.  
Part No.

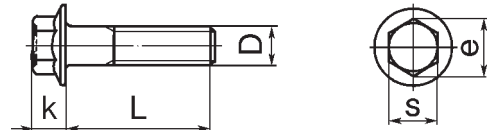
M10x30

980111

## M6SF 10.9 M-gänga fos

### Fosfaterade

Små nyckelvidder



## M6SF 10.9 M-thread fos

### Phosphated

Small widths across flats

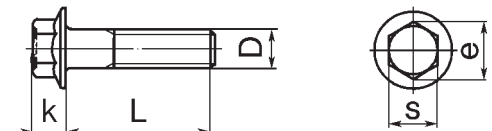
STD drawing 1052090 <sup>1)</sup>, 1052118 <sup>2)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M8x16              | 975196                  | M12x80             | 975114                  |
| M8x20              | 975197                  | M12x90             | 975115                  |
| M8x35              | 975199                  | M12x100            | 975116                  |
| M10x25             | 974324                  | M12x110            | 975117                  |
| M10x35             | 975204                  | M12x120            | 975118                  |
| M10x40             | 975101                  | M14x35             | 975208                  |
| M10x50             | 968163                  | M14x40             | 975120                  |
| M10x60             | 975102                  | M14x60             | 975122                  |
| M10x100            | 975105                  | M14x65             | 975211                  |
| M10x120            | 975107                  | M14x70             | 975123                  |
| M10x165            | 981377                  | M14x90             | 969448                  |
| M12x20             | 974613                  | M14x100            | 967786                  |
| M12x25             | 975109                  | M14x120            | 968902                  |
| M12x30             | 969447                  | M16x40             | 975125                  |
| M12x35             | 974614                  | M16x50             | 975126                  |
| M12x40             | 975110                  | M16x60             | 974007                  |
| M12x45             | 974615                  | M16x70             | 974008                  |
| M12x50             | 975111                  | M16x90             | 975127                  |
| M12x55             | 980273 <sup>1)</sup>    | M16x100            | 975128                  |
| M12x60             | 975112                  | M16x140            | 973568                  |
| M12x70             | 966835 <sup>2)</sup>    | M16x160            | 968905                  |
| M12x75             | 975154                  | M16x200            | 3178341                 |

## M6SF 10.9 M-gänga

### Lackerade, metallgrå

Små nyckelvidder



## M6SF 10.9 M-thread

### Painted, metallic grey

Small widths across flats

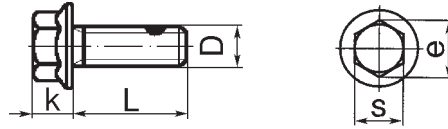
STD drawing 1052490, 1672273 <sup>1)</sup>, 1672273 <sup>2)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M10x25             | 981554                  | M14x120            | 980070                  |
| M12x45             | 983475 <sup>2)</sup>    | M14x140            | 980071                  |
| M14x40             | 980058                  | M16x100            | 980547                  |
| M14x47             | 1672273 <sup>1)</sup>   | M16x110            | 980548                  |
| M14x50             | 980060                  | M16x120            | 980549                  |
| M14x60             | 980062                  | M16x160            | 980550                  |
| M14x70             | 980064                  | M16x180            | 980551                  |
| M14x80             | 980066                  |                    |                         |

## M6SF 10.9 M-gänga fos

### Fosfaterade

Med friktionsgivande element, små nyckelvidder



## M6SF 10.9 M-thread fos

### Phosphated

With prevailing torque feature, small widths across flats

STD drawing 1052642

**Dimension**  
**D × L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

M8x35

978266

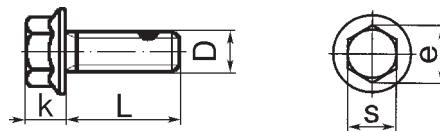
M8x50

978267

## M6SF 10.9 M-gänga

### Lackerade, svart

Med friktionsgivande element och stor flänsdiameter



## M6SF 10.9 M-thread

### Painted, black

With prevailing torque feature and large flange diameter

STD drawing 1058135

**Dimension**  
**D × L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

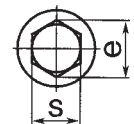
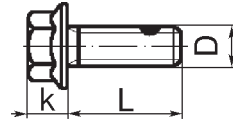
M12x60

982207

## M6SF 10.9 M-gänga

Lackerade, metallgrå

Med friktionsgivande element



## M6SF 10.9 M-thread

Painted, metallic grey

With prevailing torque feature

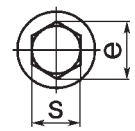
STD drawing 1052171

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x25             | 980351                  |           |                         |
| M14x35             | 980352                  |           |                         |

## M6SF 10.9 MF-gänga

Lackerade, metallgrå

Små nyckelvidder



## M6SF 10.9 MF-thread

Painted, metallic grey

Small widths across flats

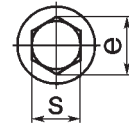
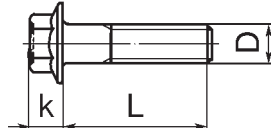
STD drawing 1052544

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x40             | 980563                  |           |                         |
| M14x50             | 980799                  |           |                         |

## M6SF 12.9 M-gänga

### Fosfaterade

Små nyckelvidder



## M6SF 12.9 M-thread

### Phosphated

Small widths across flats

STD drawing 1053377

**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

M16x150

974006

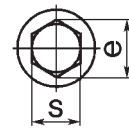
M16x160

969002

## M6SF 12.9 M-gänga

### Lackerade, metallgrå

Små nyckelvidder



## M6SF 12.9 M-thread

### Painted, metallic grey

Small widths across flats

STD drawing 1053280

**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

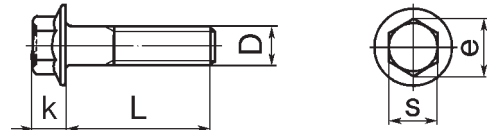
M16x150

981522

**M6SF 8.8 UNC-gänga zib**  
 Elförzinkad zink-järn, svartkromaterade

**M6SF 8.8 UNC-thread zib**  
 Electro-zinkplated zinc-iron, black  
 chromated

STD drawing 1052071



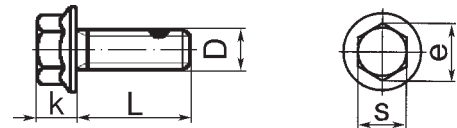
| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 1/4UNCx13          | 943629                  |           |                         |
| 5/16UNCx16         | 942402                  |           |                         |
| 3/8UNCx25          | 944429                  |           |                         |

**M6SFT 8.8 UNF-gänga zib**  
 Elförzinkad zink-järn, svartkromaterad  
 Med friktionsgivande element

**M6SFT 8.8 UNF-thread zib**  
 Electro-zinkplated zinc-iron, black  
 chromated

With prevailing torque feature

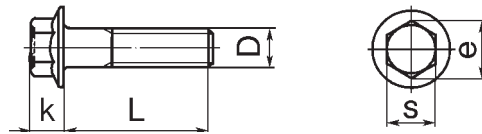
STD drawing 1052327



| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 7/16UNFx31         | 975241                  |           |                         |

**U6SF 10.9 UNC-gänga zib**  
**Mekanisk plattering**

**U6SF 10.9 UNC-thread zib**  
**Mechanical plating**



STD drawing 1690457

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 9/16UNCx61         | 1082353                 |           |                         |
| 9/16UNCx51         | 1609322                 |           |                         |

**R-M6SF M-gänga A4**

**Rostfri**

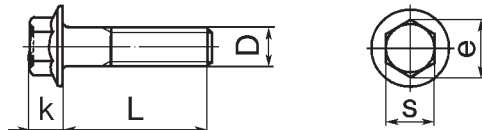
Hållfasthetsklass A4-80

**R-M6SF M-thread A4**

**Stainless**

Property class A4-80

STD drawing 1053971, 1052250



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x55              | 980366 <sup>1)</sup>    |           |                         |
| M8x60              | 977523 <sup>1)</sup>    |           |                         |
| M10x45             | 982143 <sup>2)</sup>    |           |                         |

1) Små nyckelvidder  
2) Normala nyckelvidder



## R-M6SF M-gänga

### Rostfritt stål 2570

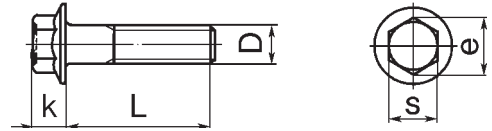
Varmhållfast austenitiskt stål

## R-M6SF M-thread

### Stainless steel 2570

Austenitic steel for use at elevated temperature

STD drawing 1052067



**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

M8x35  
M10x40

980999  
981000

## M6SF M-gänga zib

### Elförzinkad zink-järn, svartkromaterade

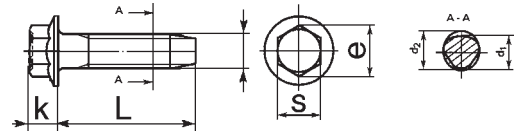
Sätthärdat stål

## M6SF M-thread zib

### Electro-zinkplated zinc-iron, black chromated

Case hardened steel

STD drawing 1052342



**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

M4x12  
M5x25  
M6x16  
M6x25  
M8x16  
M8x20

967554  
949652  
948746  
949556  
966807  
949846

M8x25  
M8x30  
M8x40  
M10x20  
M10x30

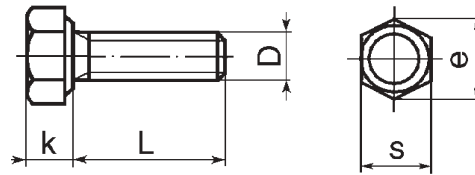
949578  
949894  
968534  
949888  
968032

## M6S 8.8 M-gänga zib

Elförzinkade zink-järn, svart kromaterade

## M6S 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated



STD drawing 1052946, 1052160 <sup>1)</sup>, 1053372 <sup>2)</sup>, 1053438 <sup>3)</sup>, 1053688 <sup>4)</sup>

| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension<br>D × L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M5x14 H            | 955245                  | M10x180            | 973253 <sup>2)</sup>    |
| M5x22              | 955248 <sup>2)</sup>    | M12x22             | 955338 <sup>3)</sup>    |
| M5x55              | 955254                  | M12x30             | 970970                  |
| M5x90              | 955260                  | M12x35             | 970971                  |
| M6x12              | 955269                  | M12x40             | 970972                  |
| M6x16              | 955271                  | M12x45             | 970973                  |
| M6x20              | 955272                  | M12x50             | 970974                  |
| M6x22              | 955273 <sup>2)</sup>    | M12x55             | 970975                  |
| M6x25              | 955274                  | M12x60             | 970976                  |
| M6x30              | 955275                  | M12x70             | 970978                  |
| M6x40              | 940101                  | M12x75             | 955349 <sup>3)</sup>    |
| M6x65              | 955281                  | M12x80             | 970980                  |
| M6x70              | 955282                  | M12x90             | 970981                  |
| M6x80              | 955284                  | M12x100            | 975573 <sup>1)</sup>    |
| M6x90              | 955285                  | M12x115            | 973114                  |
| M6x100             | 955286                  | M12x120            | 980340 <sup>1)</sup>    |
| M6x120             | 955288                  | M12x180            | 970989                  |
| M6x130             | 955289                  | M14x20 H           | 970991                  |
| M8x20              | 955295                  | M14x25 H           | 970993                  |
| M8x25              | 955297                  | M14x40             | 970996                  |
| M8x30              | 940142                  | M14x45             | 970997                  |
| M8x35              | 947818                  | M14x50             | 970998                  |
| M8x40              | 948069 <sup>1)</sup>    | M14x130            | 971010                  |
| M8x45              | 955299                  | M14x170            | 973275                  |
| M8x50              | 955300                  | M14x180            | 971014                  |
| M8x50              | 977736 <sup>1)</sup>    | M14x260            | 982210 <sup>3)</sup>    |
| M8x60              | 955302                  | M16x20 H           | 944953                  |
| M8x70              | 955304                  | M16x25 H           | 955361                  |
| M8x75              | 948878 <sup>2)</sup>    | M16x30             | 955362                  |
| M8x90              | 946407 <sup>2)</sup>    | M16x35             | 955363                  |
| M8x165             | 967825 <sup>2)</sup>    | M16x40             | 955364                  |
| M8x190             | 968303 <sup>2)</sup>    | M16x45             | 955365                  |
| M8x200             | 968006 <sup>2)</sup>    | M16x50             | 955366                  |
| M8x220             | 980359                  | M16x55             | 955367                  |
| M10x20             | 970945                  | M16x60             | 955368                  |
| M10x25             | 970947                  | M16x65             | 955369                  |
| M10x30             | 970948                  | M16x70             | 955370                  |
| M10x40             | 970950                  | M16x80             | 955372                  |
| M10x40             | 949145 <sup>4)</sup>    | M16x80             | 949200 <sup>1)</sup>    |
| M10x45             | 970951                  | M16x90             | 955373                  |
| M10x50             | 970952                  | M16x100            | 955374                  |
| M10x60             | 970954                  | M16x110            | 955375                  |
| M10x70             | 973246 <sup>1)</sup>    | M16x120            | 955376                  |
| M10x85             | 973249                  | M16x130            | 955377                  |
| M10x100            | 973250 <sup>1)</sup>    | M16x140            | 955378                  |
| M10x125            | 949768 <sup>4)</sup>    | M16x200            | 955382                  |
| M10x160            | 955336 <sup>3)</sup>    | M16x210            | 977740                  |

För övriga dimensioner se flänsskriv s. 46

For other dimensions see flange screw p. 46

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M16x240            | 982051                  | M20x130            | 955397                  |
| M18x62 H           | 948088                  | M20x140            | 955398                  |
| M18x70             | 980253                  | M20x150            | 955399                  |
| M18x90             | 947358                  | M20x160            | 955400                  |
| M18x120            | 948436                  | M20x180            | 955401                  |
| M18x130            | 979930                  | M20x200            | 955402                  |
| M18x160            | 949231                  | M20x220            | 980047                  |
| M20x40             | 955384                  | M24x60             | 955405                  |
| M20x45             | 955385                  | M24x70             | 955407                  |
| M20x50             | 955386                  | M24x80             | 955409                  |
| M20x55             | 955387                  | M24x110            | 955412                  |
| M20x60             | 955388                  | M24x120            | 955413                  |
| M20x65             | 955389                  | M24x130            | 955414                  |
| M20x80             | 955392                  | M24x140            | 955415                  |
| M20x90             | 955393                  | M24x180            | 955418                  |
| M20x100            | 955394                  | M24x250            | 981433                  |
| M20x110            | 955395                  |                    |                         |
| M20x120            | 955396                  |                    |                         |

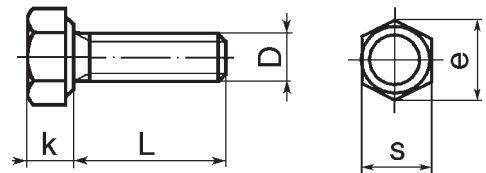
**M6S 8.8 M-gänga zib**  
**Varmförzinkad**

Smorda med TNT

**M6S 8.8 M-thread zib**  
**Hot-dipped galvanized**

Lubed with TNT

STD drawing 1052413

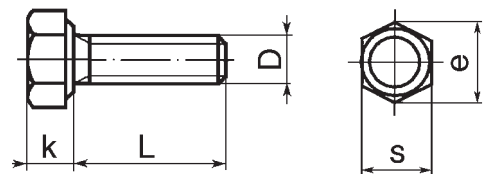


| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x25              | 967648                  |           |                         |

**M6S 8.8 M-gänga**  
**Obehandlade**

**M6S 8.8 M-thread**  
**Untreated**

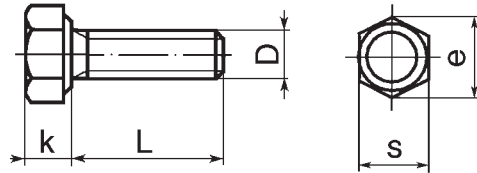
STD 17122,15,-153<sup>2)</sup>, 1053337<sup>1)</sup>



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x85              | 100222                  |           |                         |
| M8x95              | 100223                  |           |                         |
| M10x95             | 100338 <sup>1)</sup>    |           |                         |
| M16x170            | 100773 <sup>2)</sup>    |           |                         |

**M6S 8.8 MF-gänga zib**  
**Elförzinkad, gulkromaterade**

**M6S 8.8 MF-thread zib**  
**Electro zincplated, yellow chromated**



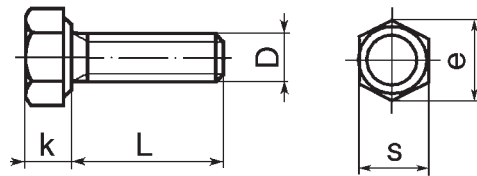
STD drawing 1054181

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| M10x1x20           | 959640                  |
| M10x1x35           | 941795                  |
| M10x1x50           | 959646                  |
| M12x1,5x22         | 959661                  |
| M12x1,5x55         | 959668                  |
| M18x1,5x30         | 959731                  |
| M18x1,5x60         | 959737                  |
| M18x1,5x65         | 959738                  |
| M18x1,5x200        | 959751                  |

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

**M6S 8.8 MF-gänga**  
**Obehandlade**

**M6S 8.8 MF-thread**  
**Untreated**



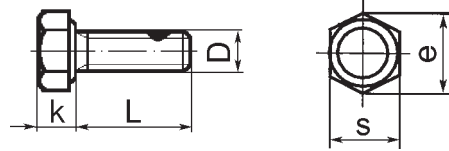
STD drawing 1053719

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| M8x1x20            | 962722                  |
| M8x1x50            | 962729                  |
| M14x1,5x30         | 962795                  |
| M14x1,5x45         | 962798                  |

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| M16x1,5x40         | 962819                  |
| M16x1,5x70         | 962825                  |
| M16x1,5x80         | 962827                  |

**M6S 8.8 M-gänga zib**  
**Elförzinkad zink-järn, svartkromaterade**

Med friktionsgivande element



**M6S 8.8 M-thread zib**  
**Electro zincplated zinc-iron, black chromated**

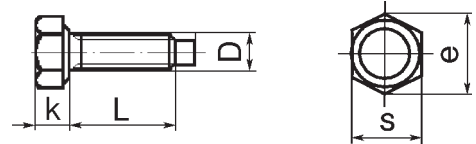
With prevailing torque feature

**STD drawing 1052664**

| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x55              | 948081                  |           |                         |
| M14x35             | 973074                  |           |                         |
| M14x40             | 973075                  |           |                         |
| M14x200            | 980931                  |           |                         |
| M20x120            | 976963                  |           |                         |

**M6S 8.8 M-gänga zib**  
**Elförzinkad zink-järn, svartkromaterade**

Med fasad lokaliseringstapp



**M6S 8.8 M-thread zib**  
**Electro zincplated zinc-iron, black chromated**

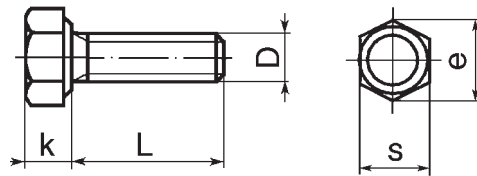
With chamfered dog point

**STD drawing 1053567**

| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x25,5            | 949335                  |           |                         |

**M6S 10.9 M-gänga fos**  
**Fosfaterade**

**M6S 10.9 M-thread fos**  
**Phosphated**



STD drawing 1053371, 6781560 <sup>1)</sup>

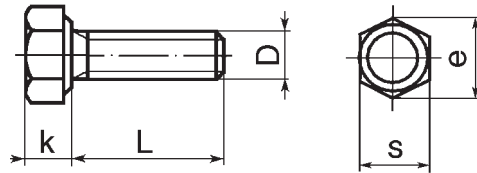
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M8x25              | 963219                  | M16x65             | 963316                  |
| M8x40              | 963222                  | M16x120            | 963323                  |
| M8x45              | 963223                  | M16x130            | 963324                  |
| M8x50              | 963224                  | M18x160            | 982047                  |
| M8x70              | 963228                  | M20x55             | 963335                  |
| M10x100            | 970888                  | M20x80             | 963340                  |
| M12x25             | 970897                  | M20x100            | 963342                  |
| M12x55             | 970903                  | M20x110            | 963343                  |
| M12x65             | 970905                  | M20x120            | 963344                  |
| M14x30             | 970922                  | M20x140            | 963346                  |
| M14x45             | 970925                  | M20x150            | 963347                  |
| M16x30             | 963309                  | M20x155            | 6781560 <sup>1)</sup>   |
| M16x35             | 963310                  | M20x200            | 963350                  |
| M16x45             | 963312                  |                    |                         |

**M6S 10.9 M-gänga fos**  
**Fosfaterade**

Speciella skruv- och gänglängder

**M6S 10.9 M-thread fos**  
**Phosphated**

Special screw and thread lengths



STD drawing 1053712

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M18x2,5x185        | 979872                  |           |                         |
| M18x2,5x200        | 977292                  |           |                         |

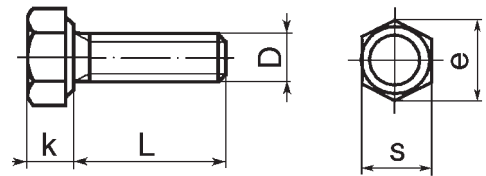
**M6S 10.9 M-gänga fos****Fosfaterade**

Speciella nyckelvidder

**M6S 10.9 M-thread fos****Phosphated**

Special widths across flats

STD drawing 1053689



| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M10x30             | 963243                  |           |                         |
| M10x45             | 963246                  |           |                         |
| M10x80             | 963253                  |           |                         |
| M14x130            | 963300                  |           |                         |

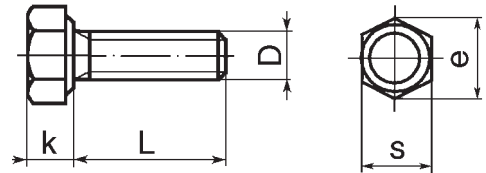
**M6S 10.9 M-gänga fos****Fosfaterade**

Speciella skruv- och gänglängder

**M6S 10.9 M-thread fos****Phosphated**

Special screw and thread lengths

STD drawing 1053317



| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension<br>D × L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M8x22              | 963218                  | M20x70             | 963338                  |
| M8x35              | 963221                  | M24x165            | 968851                  |
| M8x75              | 963229                  | M24x175            | 975543                  |
| M8x90              | 963231                  | M24x185            | 977718                  |
| M8x110             | 970889                  | M24x210            | 968321                  |
| M10x130            | 970891                  | M24x225            | 968852                  |
| M10x140            | 970892                  | M24x235            | 975544                  |
| M14x160            | 970940                  | M24x245            | 977719                  |
| M14x180            | 970941                  | M24x270            | 980100                  |
| M16x60             | 963315                  |                    |                         |

## M6S 10.9 M-gänga fos

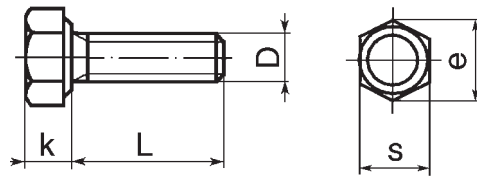
### Fosfaterade

Speciella nyckelvidder och skruvlängder

## M6S 10.9 M-thread fos

### Phosphated

Special widths across flats and special screw lengths



STD drawing 1053693

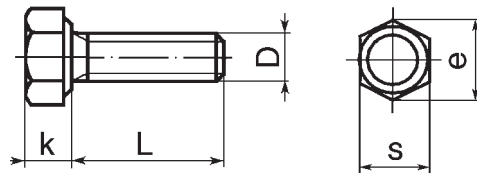
| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x25             | 963284                  |           |                         |
| M14x150            | 963302                  |           |                         |

## M6S 10.9 M-gänga

### Lackerade, metallgrå

## M6S 10.9 M-thread

### Painted, metallic grey



STD drawing 1052365

| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M16x70             | 978939                  |           |                         |
| M16x80             | 978940                  |           |                         |
| M20x90             | 978951                  |           |                         |
| M20x130            | 978954                  |           |                         |
| M20x160            | 978956                  |           |                         |
| M20x180            | 980121                  |           |                         |



## M6S 10.9 M-gänga

Lackerade, metallgrå

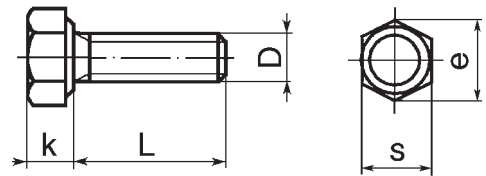
Speciella skruv- och gänglängder

## M6S 10.9 M-thread

Painted, metallic grey

Special screw and thread lengths

STD drawing 1054062



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M18x210            | 982264                  |           |                         |

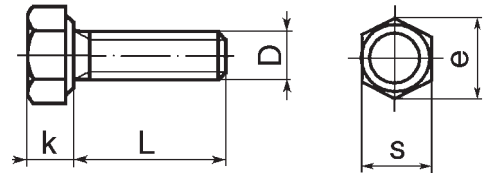
## M6S 10.9 MF-gänga fos

Fosfaterade

## M6S 10.9 MF-thread fos

Phosphated

STD drawing 1053711



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M18x1,5x35         | 944958                  | M20x1,5x120        | 977181                  |
| M18x1,5x40         | 945210                  | M20x1,5x130        | 977715                  |
| M20x1,5x60         | 977180                  |                    |                         |

## M6S 10.9 MF-gänga fos

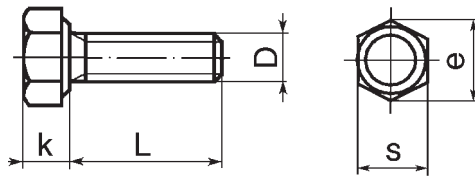
### Fosfaterade

Speciella skruvlängder och nyckelvidder

## M6S 10.9 MF-thread fos

### Phosphated

Special screw lengths and widths across flats



STD drawing 1053710

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x95             | 968164                  |           |                         |

## M6S 10.9 MF-gänga fos

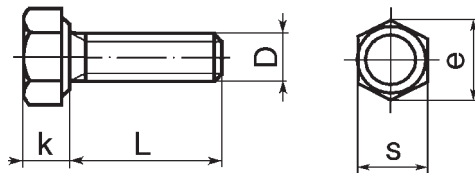
### Fosfaterade

Speciella gänglängder

## M6S 10.9 MF-thread fos

### Phosphated

Special thread lengths



STD drawing 1053714

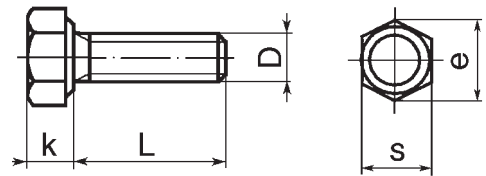
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M18x1,5x45         | 942878                  | M18x1,5x100        | 942181                  |
| M18x1,5x50         | 947492                  | M18x1,5x110        | 942182                  |
| M18x1,5x55         | 945211                  | M20x1,5x40         | 973994                  |
| M18x1,5x70         | 944658                  | M20x1,5x45         | 978195                  |
| M18x1,5x80         | 949948                  | M20x1,5x70         | 978196                  |

**M6S 10.9 MF-gänga fos****Fosfaterade**

Speciella gänglängder

**M6S 10.9 MF-thread fos****Phosphated**

Special thread lengths

**STD drawing 1053708**

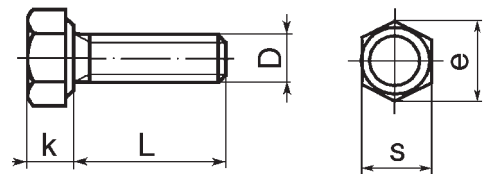
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x1,5x50         | 973875                  |           |                         |

**M6S 10.9 MF-gänga fos****Fosfaterade**

Speciella skruv- och gänglängder

**M6S 10.9 MF-thread fos****Phosphated**

Special screw and thread lengths

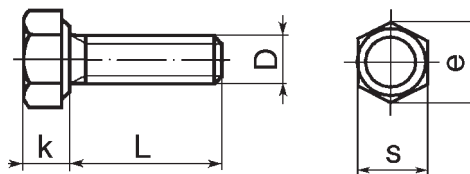
**STD drawing 1053716**

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M18x62             | 942879                  |           |                         |
| M18x85             | 945703                  |           |                         |
| M20x35             | 979140                  |           |                         |

**M6S 12.9 M-gänga fos**  
Fosfaterade

**M6S 12.9 M-thread fos**  
Phosphated

STD drawing 1053691, 1053552 <sup>1)</sup>

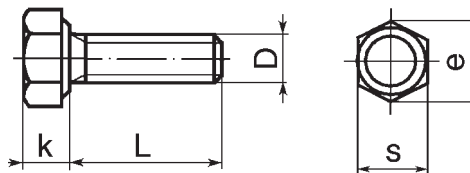


| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M10x22             | 966686 <sup>1)</sup>    |           |                         |
| M10x25             | 946379 <sup>1)</sup>    |           |                         |
| M14x70             | 973239                  |           |                         |
| M14x85             | 973240                  |           |                         |
| M14x100            | 973241                  |           |                         |
| M16x140            | 968662                  |           |                         |
| M16x170            | 968142                  |           |                         |

**M6S 12.9 M-gänga**  
Lackerade, metallgrå

**M6S 12.9 M-thread**  
Painted, metallic grey

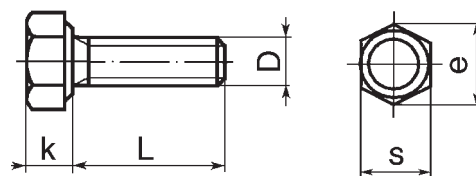
STD drawing 1053281



| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x100            | 981523                  |           |                         |

**M6S 8.8 UNC-gänga zib**  
**Elförzinkad zink-järn, svartkromaterad**

**M6S 8.8 UNC-thread zib**  
**Electro zincplated zinc-iron, black chromated**



STD drawing 1053819, 1052065 <sup>1)</sup>, STD 17122,175 <sup>2)</sup>, -166 <sup>3)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1/4UNCx7,9         | 955510                  | 3/8UNCx25          | 940115                  |
| 1/4UNCx9,5         | 955511                  | 3/8UNCx28,6        | 941939 <sup>2)</sup>    |
| 1/4UNCx13          | 955512                  | 3/8UNCx32          | 955535                  |
| 1/4UNCx16          | 940100                  | 3/8UNCx38          | 940162                  |
| 1/4UNCx19          | 955513                  | 3/8UNCx41,3        | 945698 <sup>2)</sup>    |
| 1/4UNCx22          | 940094                  | 3/8UNCx45          | 955536                  |
| 1/4UNCx25          | 955514                  | 3/8UNCx51          | 955537                  |
| 1/4UNCx32          | 940117                  | 3/8UNCx57          | 955538                  |
| 1/4UNCx38          | 955515                  | 3/8UNCx64          | 955539                  |
| 1/4UNCx45          | 940158                  | 3/8UNCx70          | 955528                  |
| 1/4UNCx51          | 955516                  | 3/8UNCx76          | 955541                  |
| 1/4UNCx57          | 940180                  | 3/8UNCx83          | 955542                  |
| 1/4UNCx64          | 940182                  | 3/8UNCx89          | 940156                  |
| 1/4UNCx76          | 955517                  | 3/8UNCx95          | 955543                  |
| 1/4UNCx83          | 955518                  | 3/8UNCx102         | 955544                  |
| 1/4UNCx89          | 955519                  | 3/8UNCx108         | 942529 <sup>1)</sup>    |
| 5/16UNCx13         | 940113                  | 3/8UNCx114         | 942338                  |
| 5/16UNCx16         | 955523                  | 3/8UNCx121         | 102041 <sup>3)</sup>    |
| 5/16UNCx19         | 955524                  | 3/8UNCx127         | 942268                  |
| 5/16UNCx22         | 940135                  | 3/8UNCx128         | 190443 <sup>3)</sup>    |
| 5/16UNCx25         | 955525                  | 3/8UNCx133         | 942547 <sup>1)</sup>    |
| 5/16UNCx32         | 940159                  | 3/8UNCx133         | 192498 <sup>3)</sup>    |
| 5/16UNCx38         | 940186                  | 3/8UNCx140         | 959797                  |
| 5/16UNCx45         | 940161                  | 3/8UNCx152         | 959798                  |
| 5/16UNCx51         | 955526                  | 3/8UNCx159         | 941251 <sup>3)</sup>    |
| 5/16UNCx57         | 955527                  | 7/16UNCx16         | 955546                  |
| 5/16UNCx64         | 940136                  | 7/16UNCx22         | 955548                  |
| 5/16UNCx70         | 955528                  | 7/16UNCx25         | 940116                  |
| 5/16UNCx76         | 955529                  | 7/16UNCx38         | 940160                  |
| 5/16UNCx83         | 955530                  | 7/16UNCx45         | 955549                  |
| 5/16UNCx89         | 955531                  | 7/16UNCx51         | 955550                  |
| 5/16UNCx95         | 955532                  | 7/16UNCx57         | 955551                  |
| 5/16UNCx102        | 955533                  | 7/16UNCx64         | 955552                  |
| 5/16UNCx108        | 949886 <sup>1)</sup>    | 7/16UNCx70         | 955553                  |
| 5/16UNCx114        | 959793                  | 7/16UNCx76         | 955554                  |
| 5/16UNCx121        | 192546 <sup>3)</sup>    | 7/16UNCx83         | 955555                  |
| 5/16UNCx127        | 959794                  | 7/16UNCx89         | 955556                  |
| 5/16UNCx140        | 959795                  | 7/16UNCx95         | 940184                  |
| 5/16UNCx165        | 944446 <sup>3)</sup>    | 7/16UNCx102        | 955557                  |
| 5/16UNCx171        | 966688 <sup>3)</sup>    | 7/16UNCx114        | 959803                  |
| 5/16UNCx178        | 941678 <sup>3)</sup>    | 7/16UNCx127        | 959804                  |
| 5/16UNCx184        | 944929 <sup>3)</sup>    | 7/16UNCx165        | 959807                  |
| 5/16UNCx198        | 941679 <sup>3)</sup>    | 7/16UNCx190        | 959809                  |
| 3/8UNCx13          | 940098                  | 1/2UNCx19          | 955558                  |
| 3/8UNCx16          | 940133                  | 1/2UNCx22          | 955559                  |
| 3/8UNCx19          | 955534                  | 1/2UNCx25          | 955560                  |
| 3/8UNCx22          | 940114                  | 1/2UNCx31,8        | 942524 <sup>2)</sup>    |

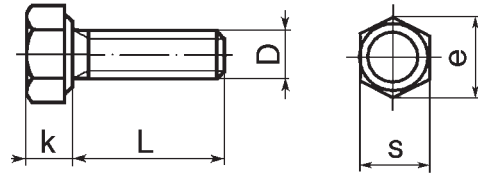


**M6S 8.8 UNC-gänga zib**

Elförzinkad zink-järn, svartkromaterad

**M6S 8.8 UNC-thread zib**

Electro zincplated zinc-iron, black chromated

STD drawing 1053819, 1052065 <sup>1)</sup>, STD 17122,175 <sup>2)</sup>, -166 <sup>3)</sup>

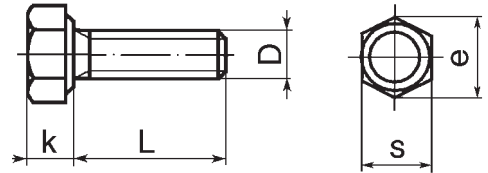
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 1/2UNCx32          | 955561                  |           |                         |
| 1/2UNCx38          | 955562                  |           |                         |
| 1/2UNCx45          | 955563                  |           |                         |
| 1/2UNCx51          | 955564                  |           |                         |
| 1/2UNCx57          | 955565                  |           |                         |
| 1/2UNCx64          | 955566                  |           |                         |
| 1/2UNCx70          | 955567                  |           |                         |
| 1/2UNCx76          | 955568                  |           |                         |
| 1/2UNCx83          | 955569                  |           |                         |
| 1/2UNCx95          | 955571                  |           |                         |
| 1/2UNCx102         | 955572                  |           |                         |
| 1/2UNCx108         | 190581 <sup>3)</sup>    |           |                         |
| 1/2UNCx114         | 941857                  |           |                         |
| 1/2UNCx114         | 941695 <sup>3)</sup>    |           |                         |
| 1/2UNCx127         | 959811                  |           |                         |
| 1/2UNCx127         | 191812 <sup>3)</sup>    |           |                         |
| 1/2UNCx140         | 967412 <sup>3)</sup>    |           |                         |
| 9/16UNCx25         | 955575                  |           |                         |
| 9/16UNCx32         | 955576                  |           |                         |
| 9/16UNCx38         | 955577                  |           |                         |
| 9/16UNCx45         | 955578                  |           |                         |
| 9/16UNCx51         | 955579                  |           |                         |
| 9/16UNCx57         | 955580                  |           |                         |
| 9/16UNCx64         | 955581                  |           |                         |
| 9/16UNCx70         | 955582                  |           |                         |
| 9/16UNCx76         | 955583                  |           |                         |
| 9/16UNCx95         | 955586                  |           |                         |
| 9/16UNCx102        | 955587                  |           |                         |
| 9/16UNCx152        | 959821                  |           |                         |
| 9/16UNCx178        | 959823                  |           |                         |
| 9/16UNCx203        | 959825                  |           |                         |
| 5/8UNCx32          | 955589                  |           |                         |
| 5/8UNCx38          | 955590                  |           |                         |
| 5/8UNCx45          | 955591                  |           |                         |
| 5/8UNCx51          | 955592                  |           |                         |
| 5/8UNCx57          | 955593                  |           |                         |
| 5/8UNCx89          | 955598                  |           |                         |
| 5/8UNCx114         | 959826                  |           |                         |
| 5/8UNCx152         | 959829                  |           |                         |
| 3/4UNCx51          | 955604                  |           |                         |
| 3/4UNCx102         | 955612                  |           |                         |
| 3/4UNCx114         | 959834                  |           |                         |
| 3/4UNCx127         | 959835                  |           |                         |
| 1UNCx190           | 959856                  |           |                         |

**U6S 8.8 UNC-gänga**

Obehandlade

**U6S 8.8 UNC-thread**

Untreated



STD 7122,3

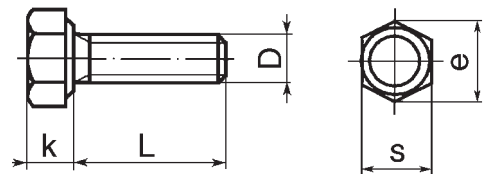
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1/4UNCx70          | 921814                  | 7/16UNCx32         | 921860                  |
| 5/16UNCx45         | 921828                  | 7/16UNCx45         | 921862                  |
| 3/8UNCx70          | 921849                  |                    |                         |

**M6S 8.8 UNF-gänga zib**

Elförzinkad zink-järn, svartkromaterad

**M6S 8.8 UNF-thread zib**

Electro zincplated zinc-iron, black chromated

STD drawing 1053373, 1053134 <sup>1)</sup>

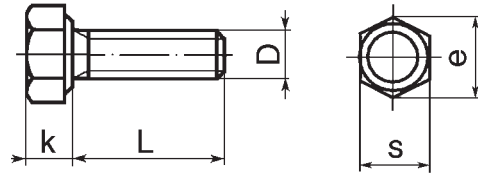
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1/4UNFx13          | 955636                  | 1/2UNFx152         | 959885                  |
| 1/4UNFx19          | 955638                  | 9/16UNFx45         | 940111                  |
| 1/4UNFx22          | 955639                  | 9/16UNFx51         | 955724                  |
| 1/4UNFx25          | 955640                  | 9/16UNFx57         | 955725                  |
| 5/16UNFx13         | 955654                  | 9/16UNFx64         | 955726                  |
| 5/16UNFx38         | 955660                  | 9/16UNFx102        | 955732                  |
| 5/16UNFx45         | 955661                  | 5/8UNFx38          | 955735                  |
| 3/8UNFx19          | 955673                  | 5/8UNFx51          | 955737                  |
| 3/8UNFx32          | 955676                  | 5/8UNFx57          | 955738                  |
| 3/8UNFx38          | 955677                  | 5/8UNFx64          | 955739                  |
| 7/16UNFx45         | 945627 <sup>1)</sup>    | 3/4UNFx102         | 955757                  |
| 1/2UNFx25          | 955706                  | 3/4UNFx114         | 959904                  |
| 1/2UNFx38          | 955708                  |                    |                         |

**U6S 8.8 UNF-gänga**

Obehandlade

**U6S 8.8 UNF-thread**

Untreated



STD 7122,4

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3/8UNFx25          | 921642                  |           |                         |
| 3/8UNFx32          | 921643                  |           |                         |

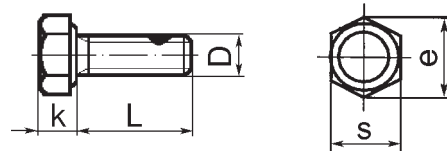
**M6S 8.8 UNF-gänga zib**

Elförzinkad zink-järn, svartkromaterad

**M6S 8.8 UNF-thread zib**

Electro zincplated zinc-iron, black chromated

STD drawing 1052048

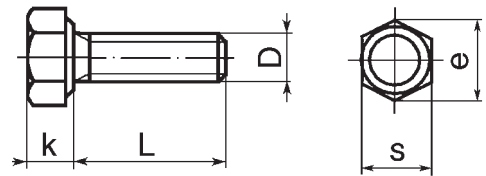


| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 7/16UNFx19         | 943393                  |           |                         |
| 7/16UNFx25         | 943394                  |           |                         |
| 7/16UNFx32         | 943395                  |           |                         |
| 7/16UNFx38         | 943530                  |           |                         |
| 7/16UNFx51         | 966377                  |           |                         |



**U6S 10.9 UNC-gänga**  
**Obehandlade**

**U6S 10.9 UNC-thread**  
**Untreated**



STD drawing 1054035

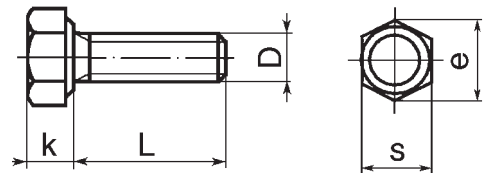
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1/4UNCx25          | 960646                  | 7/16UNCx89         | 960724                  |
| 3/8UNCx127         | 960703                  | 1/2UNCx76          | 960745                  |
| 3/8UNCx140         | 960704                  | 9/16UNCx64         | 960766                  |
| 3/8UNCx165         | 960706                  | 5/8UNCx178         | 960799                  |
| 7/16UNCx57         | 960719                  |                    |                         |

**M6S 10.9 UNF-gänga fos**  
**Fosfaterade**

Snäv stamtolerans

**M6S 10.9 UNF-thread fos**  
**Phosphated**

Tight tolerance on shank diameter



STD drawing 1054190

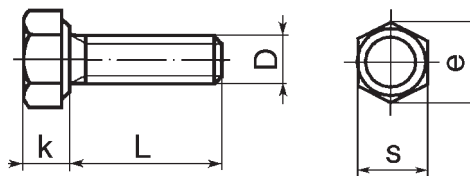
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 5/16UNFx28,6       | 942267                  | 3/8UNFx37          | 967649                  |
| 3/8UNFx32          | 102726                  | 3/8UNFx40          | 102720                  |
| 3/8UNFx32          | 942803                  | 3/8UNFx44          | 946835                  |
| 3/8UNFx34          | 946545                  |                    |                         |

## U6S 10.9 UNF-gänga

Obehandlade

## U6S 10.9 UNF-thread

Untreated



STD drawing 1054179, 945672 <sup>1)</sup>, 941570 <sup>2)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3/8UNFx19          | 968726                  |           |                         |
| 3/8UNFx38          | 945672 <sup>1)</sup>    |           |                         |
| 1/2UNFx25          | 943144                  |           |                         |
| 9/16UNFx38         | 941570 <sup>2)</sup>    |           |                         |
| 9/16UNFx45         | 947561                  |           |                         |
| 9/16UNFx51         | 944710                  |           |                         |

## R-M6S 8.8 M-gänga A2

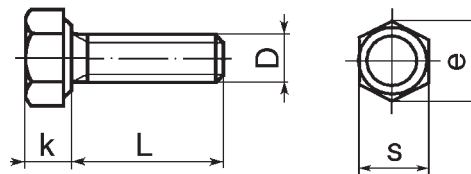
Rostfri

Hållfasthetsklass A2-80

## R-M6S 8.8 M-thread A2

Stainless

Property class A2-80



STD drawing 1052180

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M5x20              | 963548                  |           |                         |
| M6x12              | 963554                  |           |                         |
| M6x16              | 963556                  |           |                         |
| M8x25              | 946730                  |           |                         |

## Sextandhålskruv, Torx 8.8 M-gänga

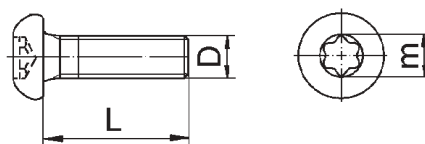
Elförzinkade zink-järn, svartkromaterade

Rundat huvud

## Six point socket screw, Torx 8.8 M-thread

Electro-zincplated zinc-iron, black chromated

Pan head



STD drawing 1052188, 3177018 <sup>1)</sup>

| Dimension<br>D × L × m | Artikel nr.<br>Part No. | Dimension<br>D × L × m | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| M3x12, T 10            | 3177018 <sup>1)</sup>   |                        |                         |
| M4x8, T 20             | 969512                  |                        |                         |
| M4x12, T 20            | 969514                  |                        |                         |
| M4x16, T 20            | 969516                  |                        |                         |
| M4x20, T 20            | 969556                  |                        |                         |
| M4x25, T 20            | 969518                  |                        |                         |
| M4x30, T 20            | 969558                  |                        |                         |
| M5x8, T 25             | 969403                  |                        |                         |
| M5x10, T 25            | 969404                  |                        |                         |
| M5x12, T 25            | 969405                  |                        |                         |
| M5x16, T 25            | 969407                  |                        |                         |
| M5x20, T 25            | 969408                  |                        |                         |
| M5x25, T 25            | 969409                  |                        |                         |
| M5x30, T 25            | 969410                  |                        |                         |
| M5x35, T 25            | 969411                  |                        |                         |
| M5x40, T 25            | 969439                  |                        |                         |
| M5x50, T 25            | 969440                  |                        |                         |
| M5x60, T 25            | 969578                  |                        |                         |
| M6x8, T 30             | 969418                  |                        |                         |
| M6x12, T 30            | 969420                  |                        |                         |
| M6x16, T 30            | 969422                  |                        |                         |
| M6x20, T 30            | 969147                  |                        |                         |
| M6x25, T 30            | 969423                  |                        |                         |
| M6x30, T 30            | 969587                  |                        |                         |
| M6x40, T 30            | 969589                  |                        |                         |
| M6x50, T 30            | 969591                  |                        |                         |
| M6x60, T 30            | 969428                  |                        |                         |
| M8x10, T 40            | 969430                  |                        |                         |
| M8x12, T 40            | 969431                  |                        |                         |
| M8x16, T 40            | 969598                  |                        |                         |
| M8x20, T 40            | 969599                  |                        |                         |
| M8x25, T 40            | 969600                  |                        |                         |
| M8x30, T 40            | 969601                  |                        |                         |
| M8x40, T 40            | 969436                  |                        |                         |
| M8x45, T 40            | 969533                  |                        |                         |
| M8x50, T 40            | 969437                  |                        |                         |
| M8x60, T 40            | 969438                  |                        |                         |
| M10x14, T 50           | 969537                  |                        |                         |
| M10x35, T 50           | 969542                  |                        |                         |
| M10x50, T 50           | 969545                  |                        |                         |

## Sextandhålskrav, Torx 8.8 M-gänga zib

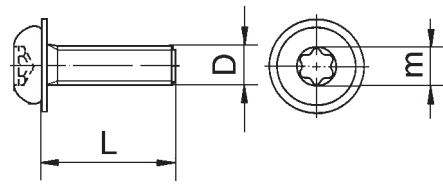
Elförzinkade zink-järn, svartkromaterade

Oförlorbar bricka

## Six point socket screw, Torx 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated

Captive washer



STD drawing 1052197

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension<br>D x L x m | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| M5x12, T 25            | 971304                  | M6x25, T 30            | 971368                  |
| M5x16, T 25            | 971306                  | M6x30, T 30            | 971369                  |
| M5x20, T 25            | 971307                  | M6x40, T 30            | 971371                  |
| M5x30, T 25            | 971309                  | M6x50, T 30            | 971373                  |
| M5x40, T 25            | 971356                  | M8x12, T 40            | 971378                  |
| M5x50, T 25            | 971358                  | M8x16, T 40            | 971335                  |
| M5x60, T 25            | 971360                  | M8x20, T 40            | 971381                  |
| M6x12, T 30            | 971319                  | M8x25, T 40            | 971382                  |
| M6x16, T 30            | 971321                  | M8x30, T 40            | 971383                  |
| M6x20, T 30            | 971322                  |                        |                         |

## Sextandhålskrav, Torx M-gänga A2-80

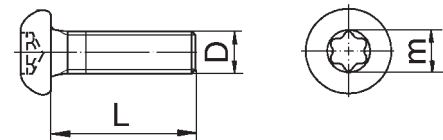
Svartkromaterade

Rostfritt stål

## Six point socket screw, Torx M-thread A2-80

Black chromated

Stainless steel



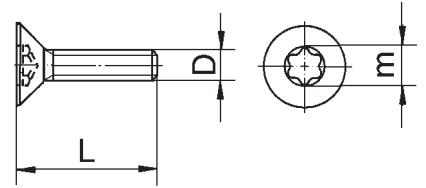
STD drawing 1052287

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension<br>D x L x m | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| M6x20, T 30            | 973879                  |                        |                         |
| M6x25, T 30            | 976778                  |                        |                         |

## Sextandhålskrav, Torx 8.8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

Sänkhuvud



## Six point socket screw, Torx 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated

Countersunk head

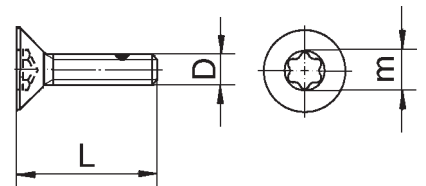
STD drawing 1052203, 1052162 <sup>1)</sup>

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension<br>D x L x m | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| M4x16, T 20            | 969788                  | M6x25, T 30            | 969818                  |
| M4x30, T 20            | 969791                  | M6x30, T 30            | 969739                  |
| M5x10, T 25            | 969722                  | M6x45, T 30            | 969822                  |
| M5x12, T 25            | 969800                  | M8x16, T 40            | 969841                  |
| M5x16, T 25            | 969802                  | M8x20, T 40            | 969842                  |
| M5x20, T 25            | 969726                  | M8x25, T 40            | 969843                  |
| M5x50, T 25            | 969809                  | M8x30, T 40            | 969373                  |
| M6x8, T 30             | 969735                  | M8x40, T 40            | 969846                  |
| M6x12, T 30            | 969737                  | M8x45, T 40            | 969754                  |
| M6x14, T 30            | 969216                  | M8x55, T 40            | 969756                  |
| M6x16, T 30            | 969738                  | M12x25, T 55           | 980343 <sup>1)</sup>    |
| M6x20, T 30            | 969817                  |                        |                         |

## Sextandhålskrav, Torx 8.8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

Sänkhuvud, Friktionsgivande element



## Six point socket screw, Torx 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated

Countersunk head, Prevailing torque feature

STD drawing 1052204

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| M5x16, T 25            | 977766                  |           |                         |

### Sextandhålskruv, Torx M-gänga A2-80

Rostfritt stål, Lackerade metallgrå

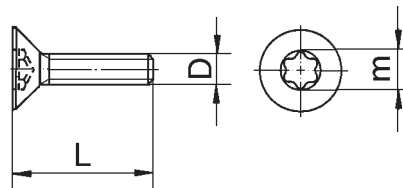
Med sänkhuvud

### Six point socket screw, Torx M-thread A2-80

Stainless steel, Painted metallic grey

With countersunk head

STD drawing 1054105



| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| M8x20, T 40            | 982397                  |           |                         |

### Sextandhålskruv, Torx M-gänga A2-80

Rostfritt stål

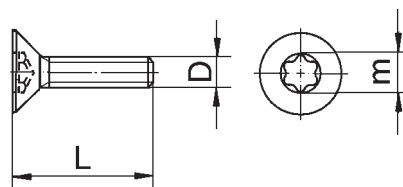
Med sänkhuvud

### Six point socket screw, Torx M-thread A2-80

Stainless steel

With countersunk head

STD drawing 1052208



| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| M6x50, T 30            | 969905                  |           |                         |

## MRX 4.8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

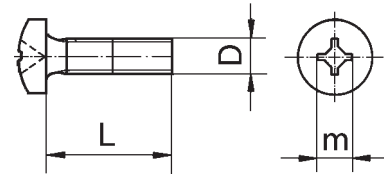
Phillipsspår

## MRX 4.8 M-thread zib

Electro-zincplated zinc-iron, black chromated

Phillip track

STD drawing 1052632



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M3x6               | 956044                  | M4x10              | 956060                  |
| M3x10              | 956046                  | M4x22              | 956065                  |
| M3x12              | 956047                  | M4x40              | 956069                  |
| M3x20              | 956050                  | M6x10              | 956091                  |
| M3x25              | 956052                  | M6x14              | 956093                  |
| M3x30              | 956053                  | M6x22              | 956096                  |
| M4x6               | 956058                  | M8x35              | 956118                  |

## MRX M-gänga zib

Elförzinkade

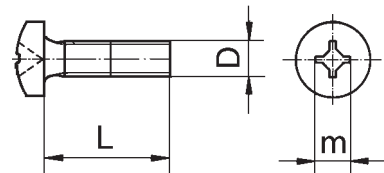
Grov stigning

## MRX M-thread zib

Electro-zincplated

Coarse pitch

STD 17124,105



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M5x55              | 956087                  |           |                         |
| M6x55              | 956103                  |           |                         |
| M6x65              | 956105                  |           |                         |

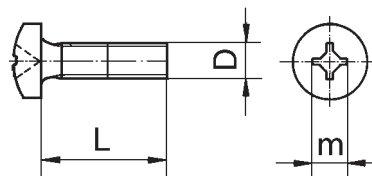
## MRX M-gänga

Mässing

## MRX M-thread

Brass

STD 17124,081



**Dimension  
D x L**

**Artikel nr.  
Part No.**

**Dimension**

**Artikel nr.  
Part No.**

M3x16  
M4x12

946177  
941610

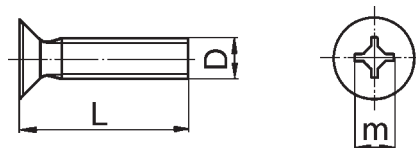
## MFX 4.8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

## MFX 4.8 M-thread zib

Electro-zincplated zinc-iron, black chromated

STD drawing 1052943



**Dimension  
D x L**

**Artikel nr.  
Part No.**

**Dimension  
D x L**

**Artikel nr.  
Part No.**

M3x12  
M4x8  
M4x12  
M4x16  
M4x20  
M4x30

956151  
956162  
956164  
956166  
956167  
956170

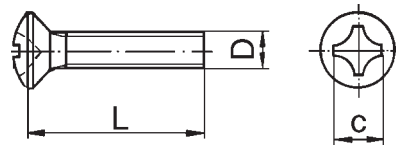
M5x8  
M6x10  
M6x22  
M8x50  
M8x60  
M10x30

956182  
956202  
956207  
956231  
956233  
956244



**MKFX 4.8 M-gänga zib**

Elförzinkade zink-järn, svartkromaterade

**MKFX 4.8 M-thread zib**

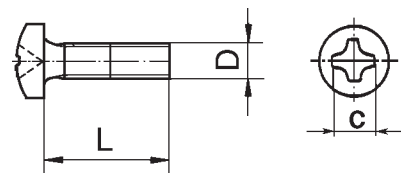
Electro-zincplated zinc-iron, black chromated

STD drawing 1052977, STD 7124,141 <sup>1)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M3x30              | 956266                  | M5x25              | 948647 <sup>1)</sup>    |
| M4x25              | 956278                  | M6x20              | 965442 <sup>1)</sup>    |
| M5x10              | 956292                  | M6x40              | 956320                  |

**URX UNC-gänga zib**

Elförzinkade, gulkromaterade

**URX UNC-thread zib**

Electro-zincplated, yellow chromated

STD drawing 1057715

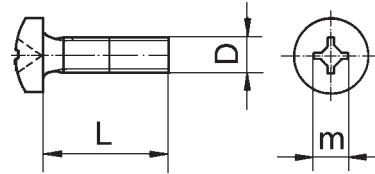
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| NR6UNCx9,5         | 950003                  | NR10UNCx45         | 950028                  |
| NR6UNCx13          | 950004                  | NR10UNCx51         | 950029                  |
| NR8UNCx4,8         | 950007                  | NR12UNCx13         | 950033                  |
| NR8UNCx13          | 950011                  | NR12UNCx16         | 950034                  |
| NR8UNCx19          | 950013                  | NR12UNCx19         | 950035                  |
| NR8UNCx25          | 950015                  | 1/4UNCx9,5         | 950044                  |
| NR10UNCx9,5        | 950020                  | 1/4UNCx13          | 950045                  |
| NR10UNCx13         | 950021                  | 1/4UNCx16          | 950046                  |
| NR10UNCx16         | 950022                  | 1/4UNCx19          | 950047                  |
| NR10UNCx19         | 950023                  | 1/4UNCx22          | 950048                  |
| NR10UNCx22         | 950024                  | 1/4UNCx25          | 950049                  |
| NR10UNCx25         | 950025                  | 1/4UNCx32          | 950050                  |
| NR10UNCx32         | 950026                  | 1/4UNCx38          | 950051                  |
| NR10UNCx38         | 950027                  | 5/16UNCx16         | 950059                  |

**UKFX 4.8 UNC-gänga zib**

Elförzinkade zink-järn, svartkromaterade

**UKFX 4.8 UNC-thread zib**

Electro-zincplated zinc-iron, black chromated



STD 7124,24

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| NR8UNCx9,5         | 950217                  |
| NR8UNCx32          | 950223                  |
| 1/4UNCx38          | 950255                  |

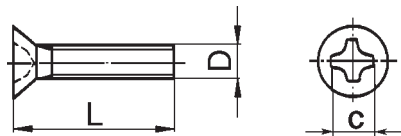
| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**UFX 5.8 UNC-gänga**

Elförzinkade, gulkromaterade

**UFX 5.8 UNC-thread**

Electro-zincplated, yellow chromated



STD drawing 1057716

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| NR8UNCx6,3         | 950110                  |
| NR8UNCx13          | 950113                  |
| 1/4UNCx9,5         | 950143                  |
| 1/4UNCx13          | 950144                  |
| 1/4UNCx16          | 950145                  |

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| 1/4UNCx19          | 950146                  |
| 1/4UNCx22          | 950147                  |
| 5/16UNCx19         | 950158                  |
| 5/16UNCx38         | 950162                  |
| 1/2UNCx25          | 950197                  |

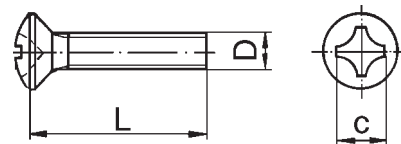
## MKFX M-gänga

Rostfritt stål

## MKFX M-thread

Stainless steel

STD drawing 6876447



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M4x20              | 6876447                 |           |                         |

## SR-MFX M-gänga A2

Rostfritt stål

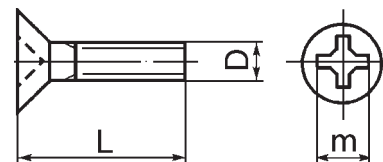
Hållfasthetsklass A2-50

## SR-MFX M-thread A2

Stainless steel

Property class A2-50

STD drawing 1053481



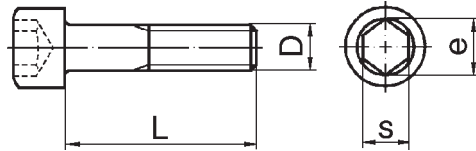
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x40              | 958725                  |           |                         |
| M6x70              | 948727                  |           |                         |

## MC6S 8.8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

## MC6S 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated



STD drawing 1052942, 1053380 <sup>1)</sup>, 1053762 <sup>2)</sup>

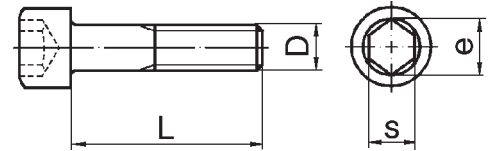
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M3x10              | 959165                  | M12x70             | 959263                  |
| M4x8               | 959173                  | M12x80             | 959265                  |
| M4x10              | 959174                  | M12x90             | 959266                  |
| M4x14              | 959176 <sup>1)</sup>    | M16x25             | 959272                  |
| M4x30              | 959181                  | M16x60             | 959279                  |
| M5x8               | 961236                  | M16x70             | 959281                  |
| M5x12              | 959187                  | M16x120            | 959287                  |
| M5x30              | 959193                  | M20x50             | 959292                  |
| M5x35              | 959194                  | M20x120            | 959302                  |
| M5x50              | 959197                  | M20x140            | 946916                  |
| M6x14              | 959202 <sup>1)</sup>    |                    |                         |
| M6x16              | 942001                  |                    |                         |
| M6x20              | 940326                  |                    |                         |
| M6x22              | 942247 <sup>1)</sup>    |                    |                         |
| M6x25              | 942314                  |                    |                         |
| M6x30              | 959207                  |                    |                         |
| M6x65              | 959214 <sup>1)</sup>    |                    |                         |
| M8x16              | 959219                  |                    |                         |
| M8x20              | 959220                  |                    |                         |
| M8x25              | 959222                  |                    |                         |
| M8x30              | 959223                  |                    |                         |
| M8x35              | 959224                  |                    |                         |
| M8x40              | 941761                  |                    |                         |
| M8x45              | 959226                  |                    |                         |
| M8x50              | 959227                  |                    |                         |
| M8x55              | 941762                  |                    |                         |
| M8x60              | 959229                  |                    |                         |
| M8x65              | 959230                  |                    |                         |
| M8x70              | 959231                  |                    |                         |
| M8x100             | 969501 <sup>2)</sup>    |                    |                         |
| M8x128             | 977647 <sup>1)</sup>    |                    |                         |
| M8x130             | 977648 <sup>1)</sup>    |                    |                         |
| M10x20             | 959236                  |                    |                         |
| M10x25             | 959238                  |                    |                         |
| M10x30             | 959239                  |                    |                         |
| M10x35             | 959240                  |                    |                         |
| M10x40             | 959241                  |                    |                         |
| M10x45             | 959242                  |                    |                         |
| M10x50             | 959243                  |                    |                         |
| M10x60             | 959245                  |                    |                         |
| M10x90             | 959250                  |                    |                         |
| M12x25             | 959254                  |                    |                         |
| M12x35             | 959256                  |                    |                         |
| M12x40             | 959257                  |                    |                         |
| M12x45             | 959258                  |                    |                         |
| M12x55             | 959260                  |                    |                         |
| M12x60             | 959261                  |                    |                         |

### MLC6S 8.8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

### MLC6S 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated



STD drawing 1052796, 1608741 <sup>1)</sup>

| Dimension<br>D x L  | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|---------------------|-------------------------|-----------|-------------------------|
| M8x16               | 947377                  |           |                         |
| M8x20               | 946291                  |           |                         |
| M8x23               | 1608741 <sup>1)</sup>   |           |                         |
| 1) yellow chromated |                         |           |                         |

### MC6S 8.8 M-gänga zib

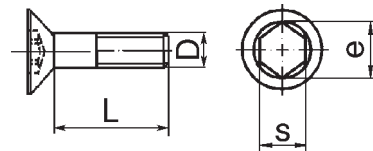
Elförzinkade zink-järn, svartkromaterade

Med sänkhuvud

### MC6S 8.8 M-thread zib

Electro-zincplated zinc-iron, black chromated

With countersunk head



STD drawing 1052068, 1052053 <sup>1)</sup>

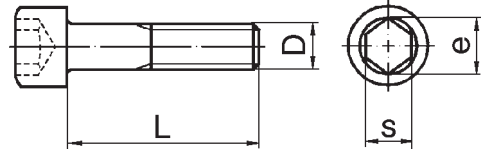
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M10x25             | 947963                  | M12x40             | 944653                  |
| M10x30             | 949044                  | M12x50             | 967820                  |
| M10x40             | 949302                  | M12x55             | 948387                  |
| M10x75             | 982506                  | M12x80             | 949164                  |
| M12x20             | 967658                  | M12x110            | 982135                  |
| M12x25             | 948396                  | M14x45             | 980337                  |
| M12x30             | 948345                  | M14x90             | 980180 <sup>1)</sup>    |
| M12x35             | 944652                  | M16x70             | 967661                  |

**MC6S 10.9 M-gänga fos**

Fosfaterade

**MC6S 10.9 M-thread fos**

Phosphated

STD drawing 1053737, 1053761 <sup>1)</sup>**Dimension  
D x L****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

M14x30

968304

M14x35

946094

M14x45

967965

M14x55

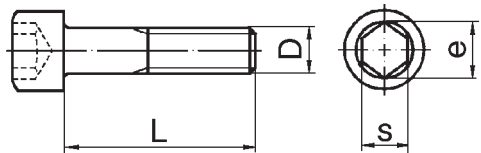
949715 <sup>1)</sup>**MC6S 10.9 MF-gänga fos**

Fosfaterade

**MC6S 10.9 MF-thread fos**

Phosphated

STD drawing 1053097

**Dimension  
D x L****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

M20x40

979946

M20x55

977519

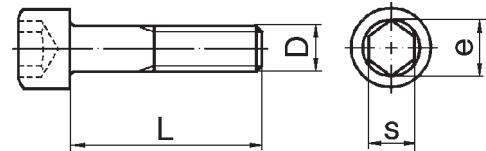
**MC6S 10.9 M-gänga**

Lackerad, metallgrå

**MC6S 10.9 M-thread**

Painted, metallic grey

STD drawing 1053547



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x70             | 981744                  |           |                         |

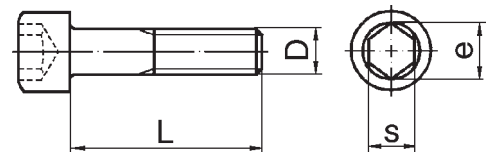
**MC6S 10.9 M-gänga**

Obehandlade

**MC6S 10.9 M-thread**

Untreated

STD drawing 1053735



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x35              | 973523                  |           |                         |
| M10x45             | 969169                  |           |                         |
| M10x60             | 974111                  |           |                         |
| M10x70             | 974113                  |           |                         |
| M12x40             | 966789                  |           |                         |

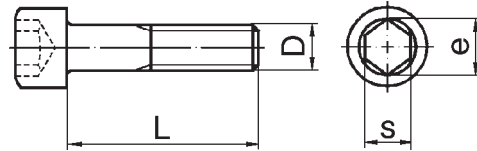
## MC6S 12.9 M-gänga

Obehandlade

## MC6S 12.9 M-thread

Untreated

STD drawing 1052093



**Dimension  
D x L**

**Artikel nr.  
Part No.**

**Dimension**

**Artikel nr.  
Part No.**

|         |        |
|---------|--------|
| M8x20   | 967630 |
| M14x130 | 966830 |
| M14x160 | 966836 |
| M14x180 | 966837 |
| M16x110 | 947323 |

## MC6S 10.9 M-gänga fos

Fosfaterade

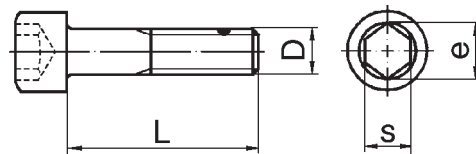
Med friktionsgivande element

## MC6S 10.9 M-thread fos

Phosphated

With prevailing torque feature

STD drawing 1053484, 1619984 <sup>1)</sup>



**Dimension  
D x L**

**Artikel nr.  
Part No.**

**Dimension**

**Artikel nr.  
Part No.**

|        |                       |
|--------|-----------------------|
| M14x55 | 977282                |
| M20x90 | 1619984 <sup>1)</sup> |

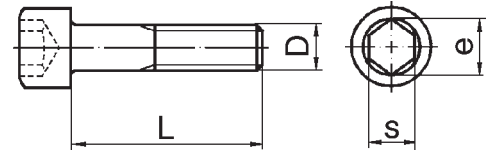


**UC6S 8.8 UNC-gänga zib**

Elförzinkade, gulchromerade

**UC6S 8.8 UNC-thread zib**

Electro-zincplated, yellow chromated



STD drawing 1053648

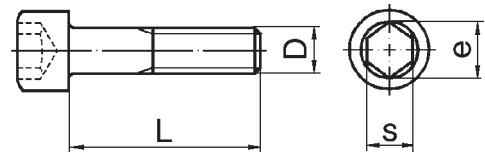
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| NR10UNCx19         | 956542                  | 5/16UNCx64         | 956576                  |
| NR10UNCx25         | 956544                  | 5/16UNCx127        | 959339                  |
| NR10UNCx51         | 956548                  | 3/8UNCx25          | 956584                  |
| 1/4UNCx13          | 956552                  | 3/8UNCx32          | 956585                  |
| 1/4UNCx22          | 956555                  | 3/8UNCx45          | 956587                  |
| 1/4UNCx64          | 956562                  | 3/8UNCx89          | 956594                  |
| 5/16UNCx22         | 956569                  | 7/16UNCx32         | 956601                  |
| 5/16UNCx25         | 956570                  | 7/16UNCx51         | 956604                  |
| 5/16UNCx32         | 956571                  | 7/16UNCx57         | 956605                  |
| 5/16UNCx38         | 956572                  |                    |                         |

**UC6S 12.9 UNC-gänga**

Obehandlade

**UC6S 12.9 UNC-thread**

Untreated



STD 17124,712

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3/8UNCx76          | 946380                  |           |                         |

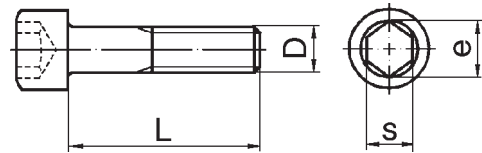
**MC6S M-gänga A2-70**

Rostfritt stål

**MC6S M-thread A2-70**

Stainless steel

STD drawing 1053568



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M5x8               | 963692                  |           |                         |
| M8x20              | 963697                  |           |                         |
| M8x40              | 963699                  |           |                         |
| M8x45              | 963700                  |           |                         |

## Sextandhålskruv, Torx M-gänga zib

### Elförzinkade zink-järn, svartkromaterade

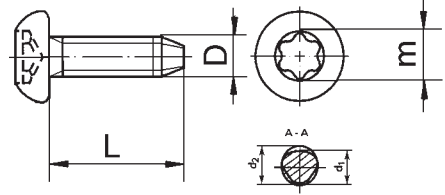
Gängpressande, Sätthärdat stål

## Six point socket screw, Torx M-thread zib

### Electro-zincplated zinc-iron, black chromated

Tapping, Case hardened steel

STD drawing 1052259, 1052262 <sup>1)</sup>



| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| M5x12, T 25            | 972409                  |           |                         |
| M6x30, T 30            | 968924 <sup>1)</sup>    |           |                         |
| M8x14, T 40            | 972542                  |           |                         |
| M8x20, T 40            | 972544                  |           |                         |

## Sextandhålskruv, Torx M-gänga zib

### Elförzinkade, gulkromaterade

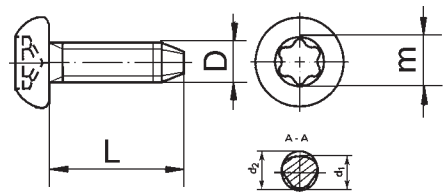
Gängpressande, Sätthärdat stål, Avsedda för jordningsförband

## Six point socket screw, Torx M-thread zib

### Electro-zincplated, yellow chromated

Tapping, Case hardened steel, Intended for earthing joints

STD drawing 1052260

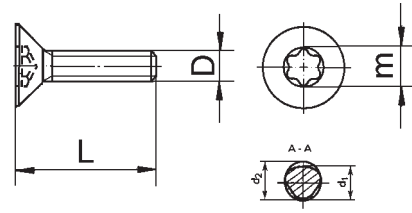


| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| M6x10, T 30            | 972426                  |           |                         |
| M6x16, T 30            | 977633                  |           |                         |

## Sextandhålskräv, Torx M-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Sätthärdat stål, gängpressande, Med sänkhuvud



## Six point socket screw, Torx M-thread zib

### Electro-zincplated zinc-iron, black chromated

Case hardened steel, tapping, With countersunk head

STD drawing 1052264

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension<br>D x L x m | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
|------------------------|-------------------------|------------------------|-------------------------|

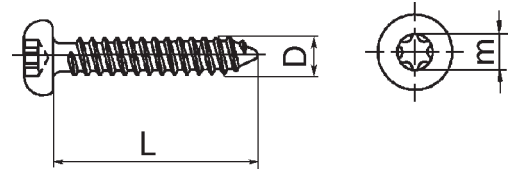
M6x25, T30

972395

## Sextandhålskräv, Torx ST-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Gängpressande, Rundat huvud, Rundad ände



## Six point socket screw, Torx ST-thread zib

### Electro-zincplated zinc-iron, black chromated

Tapping, Pan head, Rounded end

STD drawing 1052218

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
|--------------------|-------------------------|--------------------|-------------------------|

ST2,9x9,5

969462

ST3,5x9,5

969464

ST3,5x13

969456

ST3,5x19

969466

ST4,2x13

972007

ST4,2x19

969470

ST4,2x38

972013

ST4,8x9,5

969473

ST4,8x13

969278

ST4,8x19

969476

ST4,8x25

969478

ST4,8x32

969479

ST4,8x38

981772

ST6,3x13

969487

ST6,3x19

969489

ST6,3x25

969491

ST6,3x32

972033

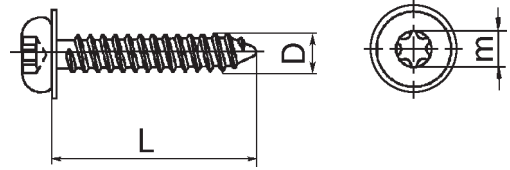
ST6,3x38

972034

## Sextandhålskruv, Torx ST-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Gängpressande, Rundat huvud, Rundad ände, Oförlorbar bricka



## Six point socket tapping screws, Torx ST-thread zib

### Electro-zincplated zinc-iron, black chromated

Tapping, Pan head, Rounded end, Captive washer

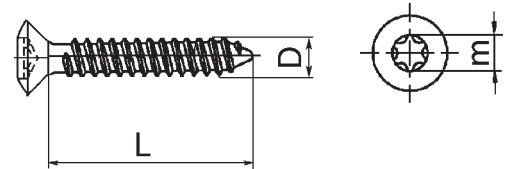
STD drawing 1052222, 1052077 <sup>1)</sup>

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension<br>D x L x m | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| ST3,5x9,5, T 10        | 972069                  | ST4,8x25, T 25         | 972083                  |
| ST3,5x13, T 10         | 972070                  | ST4,8x32, T 25         | 972084                  |
| ST3,5x19, T 10         | 972072                  | ST5,5x38, T 25         | 972592                  |
| ST4,8x9,5, T 25        | 972078                  | ST6,3x13, T30          | 972092                  |
| ST4,8x13, T 25         | 972079                  | ST6,3x25, T 30         | 972125                  |
| ST4,8x19, T 25         | 972081                  | ST6,3x32, T 30         | 972097                  |
| ST4,8x19, T 25         | 972240 <sup>1)</sup>    |                        |                         |

## Sextandhålskruv, Torx ST-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Gängpressande, kullersänkhuvud



## Six point socket tapping screws, Torx ST-thread zib

### Electro-zincplated zinc-iron, black chromated

Tapping, Raised countersunk head

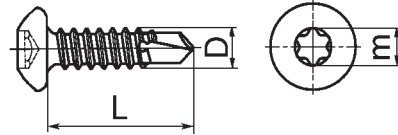
STD drawing 1052228

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| ST3,5x19, T 10         | 972135                  |           |                         |
| ST4,2x25, T 20         | 972181                  |           |                         |
| ST4,8x13, T 25         | 972147                  |           |                         |
| ST4,8x19, T 25         | 972186                  |           |                         |
| ST4,8x22, T 25         | 972150                  |           |                         |
| ST4,8x25, T 25         | 972151                  |           |                         |
| ST4,8x38, T 25         | 972190                  |           |                         |

## Sextandhålskrav, Torx ST-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Borrande, Gängpressande, Rundat huvud



## Six point socket tapping screws, Torx ST-thread zib

### Electro-zincplated zinc-iron, black chromated

Self-drilling, Tapping, Pan head

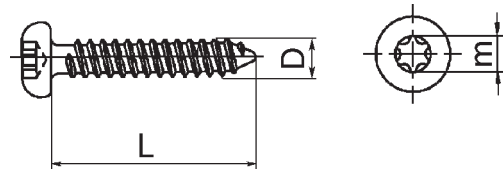
STD drawing 1052301

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| ST4,8x13, T 25         | 972291                  |           |                         |
| ST4,8x19, T 25         | 972293                  |           |                         |
| ST4,8x32, T 25         | 972296                  |           |                         |

## Sextandhålskrav, Torx ST-gänga zib

### Rostfritt stål

Gängpressande, Rundat huvud, Rundad ände



## Six point socket tapping screws, Torx ST-thread zib

### Stainless steel

Tapping, Pan head, Rounded end

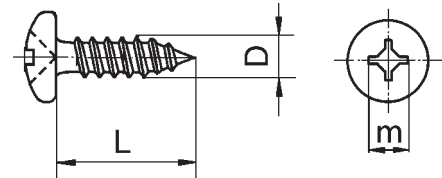
STD drawing 1052192

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| ST4,8x13, T 25         | 972049                  |           |                         |
| ST4,8x19, T 25         | 972051                  |           |                         |

## RXS ST-gänga zib

Elförzinkade zink-järn, svartkromaterade

Rundat huvud, Spetsig ände



## RXS ST-thread zib

Electro-zincplated zinc-iron, black chromated

Rounded head, Cone end

STD drawing 1052634, 1052986 <sup>1)</sup>

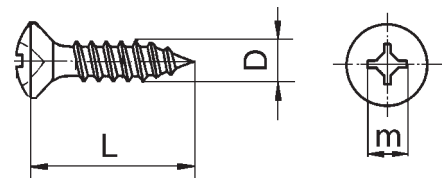
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| ST2,9x13           | 955116                  | ST4,8x22           | 955142                  |
| ST3,5x25           | 190896 <sup>1)</sup>    | ST5,5x13           | 958236                  |
| ST4,2x8            | 955125 <sup>1)</sup>    | ST5,5x16           | 958238                  |
| ST4,2x9,5          | 955126                  | ST5,5x19           | 958239                  |
| ST4,2x16           | 955129                  | ST5,5x25           | 958240                  |
| ST4,2x22           | 955131                  | ST5,5x32           | 958241                  |
| ST4,2x25           | 955132                  | ST5,5x38           | 958242                  |
| ST4,2x30           | 955133 <sup>1)</sup>    | ST5,5x45           | 949319 <sup>1)</sup>    |
| ST4,8x16           | 955140                  | ST6,3x16           | 958246                  |

## KFXS ST-gänga zib

Elförzinkade zink-järn, svartkromaterade

## KFXS ST-thread zib

Electro-zincplated zinc-iron, black chromated



STD drawing 1053383

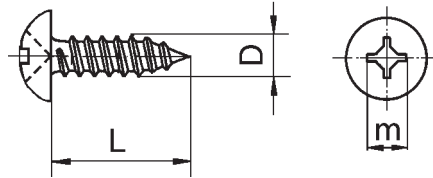
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| ST3,5x13           | 955154                  |           |                         |
| ST4,2x13           | 955161                  |           |                         |
| ST4,2x16           | 955163                  |           |                         |
| ST4,2x19           | 955164                  |           |                         |
| ST4,2x32           | 955167                  |           |                         |
| ST4,8x16           | 955174                  |           |                         |
| ST6,3x16           | 958291                  |           |                         |
| ST6,3x19           | 958292                  |           |                         |

# LKXS ST-gänga fos

Fosfaterade

# LKXS ST-thread fos

Phosphated



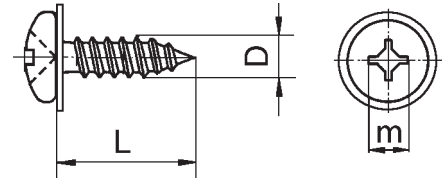
STD drawing 1053440, 1052987 <sup>1)</sup>, STD 17127,412 <sup>2)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| ST3,5x10           | 192318 <sup>1)</sup>    |           |                         |
| ST3,5x12           | 191542 <sup>2)</sup>    |           |                         |
| ST4,2x12           | 945683                  |           |                         |
| ST4,8x19           | 946220                  |           |                         |



**Krysemsskruv ST-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

Gängpressande, Rundat huvud, Spetsig ände



**Cross recessed tapping sems**  
**screws ST-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

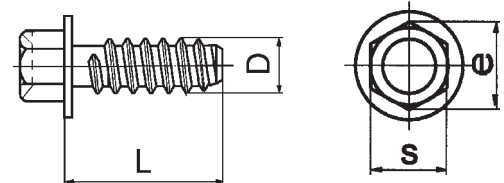
Tapping, Pan head, Cone end

STD drawing 1052635

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| ST4,8x16           | 965396                  |           |                         |
| ST5,5x13           | 965399                  |           |                         |

**Krysemsskruv ST-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

Gängpressande, Plan ände



**Cross recessed tapping sems**  
**screws ST-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

Tapping, Flat end

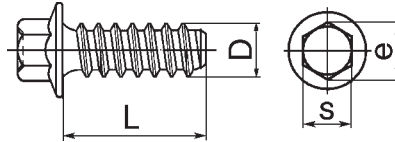
STD drawing 1052341

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| ST4,8x13           | 965354                  |           |                         |
| ST6,3x16           | 946485                  |           |                         |
| ST6,3x22           | 965365                  |           |                         |

## M6SF ST-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Gängpressande, Plan ände



## M6SF ST-thread zib

### Electro-zincplated zinc-iron, black chromated

Tapping, Flat end

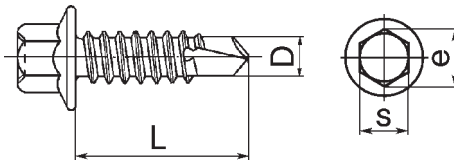
STD drawing 1052172

| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| ST4,8x13           | 968476                  |           |                         |
| ST4,8x38           | 949460                  |           |                         |
| ST6,3x13           | 968478                  |           |                         |
| ST6,3x25           | 968479                  |           |                         |

## M6SF ST-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Borrande, Gängpressande



## M6SF ST-thread zib

### Electro-zincplated zinc-iron, black chromated

Drilling, Tapping

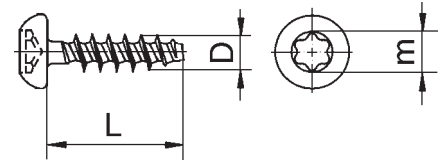
STD drawing 1053997

| Dimension<br>D × L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| ST6,3x19           | 948951                  |           |                         |
| ST6,3x38           | 949857                  |           |                         |

## Sextandhålskruv, Torx PF-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Skrivar avsedda för plastmaterial



## Six point socket tapping screws, Torx PF-thread zib

### Electro-zincplated zinc-iron, black chromated

Screws intended for plastic materials

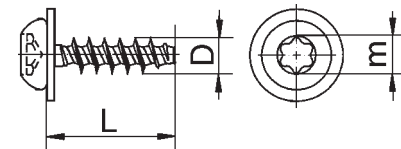
STD drawing 1052233, 1052232 <sup>1)</sup>

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| PF4x10, T 15           | 972321 <sup>1)</sup>    |           |                         |
| PF4x12, T 15           | 975367                  |           |                         |
| PF4x20, T 15           | 975371                  |           |                         |
| PF5x16, T 20           | 975378                  |           |                         |
| PF5x20, T 20           | 975380                  |           |                         |
| PF5x60, T 20           | 977812                  |           |                         |
| PF6x14, T 25           | 975386                  |           |                         |
| PF6x16, T 25           | 975387                  |           |                         |

## Sextandhålskruv, Torx PF-gänga zib

### Elförzinkade zink-järn, svartkromaterade

Med oförlobara brickor. Skruvar avsedda för plastmaterial



## Six point socket tapping screws, Torx PF-thread zib

### Electro-zincplated zinc-iron, black chromated

With captive washers. Screws intended for plastic materials

STD drawing 1052238

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| PF4x12, T 15           | 977166                  |           |                         |
| PF4x14, T 15           | 976154                  |           |                         |
| PF5x16, T 20           | 976162                  |           |                         |
| PF5x18, T 20           | 976163                  |           |                         |
| PF5x20, T 20           | 976164                  |           |                         |
| PF6x20, T 25           | 977172                  |           |                         |
| PF6x25, T 25           | 976170                  |           |                         |

## Sextandhålskruv, Torx PF-gänga zib

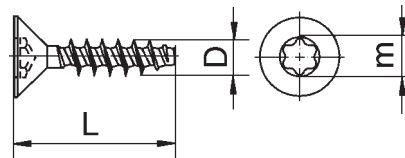
### Elförzinkade zink-järn, svartkromaterade

Gängpressande, Sänkhuvud, Avsedda för plastmaterial

## Six point socket screw, Torx PF-thread zib

### Electro-zincplated zinc-iron, black chromated

Tapping, Countersunk head, Intended for plastic materials

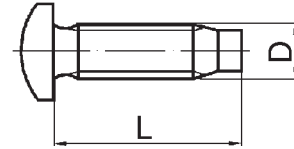


STD drawing 1052249

| Dimension<br>D x L x m | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| PF3x10, T 8            | 976602                  |           |                         |

**Drivskruv zib****Elförzinkade zink-järn, svartkromaterade**

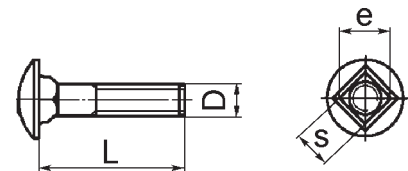
Med kullrigt huvud

**Drive screw zib****Electro-zincplated zinc-iron, black chromated**

With round head

STD drawing 1053389

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| NR2x3              | 950887                  |           |                         |
| NR2x5              | 950889                  |           |                         |
| NR2x6              | 905656                  |           |                         |
| NR4x5              | 950891                  |           |                         |

**Kullerskruv M-gänga zib****Elförzinkade zink-järn, svartkromaterade****Square neck screw M-thread zib****Electro-zincplated zinc-iron, black chromated**

STD drawing 1053012

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x55              | 948439                  |           |                         |
| M16x80             | 976239                  |           |                         |
| M16x100            | 976241                  |           |                         |

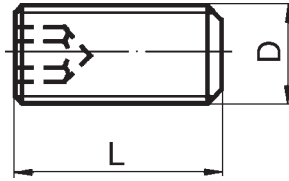
## MP6SS M-gänga

Med sexkantshål och plan ände

## MP6SS M-thread

With hexagon socket and flat point

STD drawing 1052355, 1669989 <sup>1)</sup>



**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

|        |                       |
|--------|-----------------------|
| M8x8   | 962932                |
| M8x10  | 962933                |
| M8x20  | 962937                |
| M10x10 | 962942                |
| M10x20 | 962946                |
| M10x35 | 1669989 <sup>1)</sup> |
| M16x40 | 962964                |

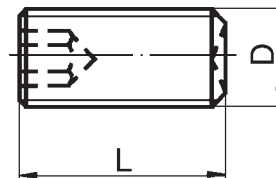
## MSK6SS M-gänga 45H

Med sexkantshål och skål

## MSK6SS M-thread 45H

With hexagon socket and cup point

STD drawing 1053242



**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

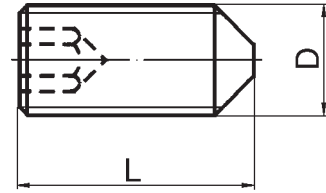
|        |        |
|--------|--------|
| M6x8   | 963049 |
| M6x20  | 963054 |
| M8x8   | 963057 |
| M8x12  | 963059 |
| M8x20  | 963062 |
| M12x16 | 963077 |

## MS6SS M-gänga 45H

Med sexkantshål och spets

## MS6SS M-thread 45H

With hexagon socket and cone point



STD drawing 1053765

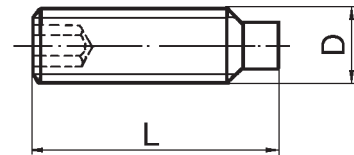
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M4x12              | 967310                  |           |                         |
| M5x8               | 945647                  |           |                         |
| M5x10              | 967313                  |           |                         |
| M6x10              | 963005                  |           |                         |
| M8x20              | 963017                  |           |                         |
| M10x16             | 963025                  |           |                         |

## MT6SS M-gänga

Obehandlad

## MT6SS M-thread

Untreated



STD 7125,16

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x12              | 962976                  |           |                         |
| M10x30             | 962988                  |           |                         |

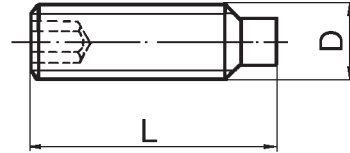
## MT6SS M-gänga

Med friktionsgivande element

## MT6SS M-thread

With prevailing torque feature

STD 17125,407



**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

M10x20

968455

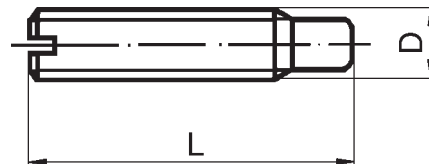
## SSST 5.8 UNC-gänga

Obehandlad

## SSST 5.8 UNC-thread

Untreated

STD 17125,325



**Dimension**  
**D x L**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

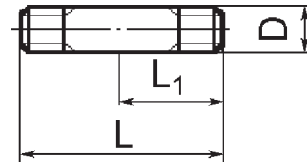
1/4UNCx14

951354



**PS 8.8 M-gänga fos**  
**Fosfaterade**

**PS 8.8 M-thread fos**  
**Phosphated**



STD drawing 1053381, 1052683 <sup>1)</sup>, 1052515 <sup>2)</sup>

| <b>Dimension<br/>D x L x L<sub>1</sub></b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension<br/>D x L x L<sub>1</sub></b> | <b>Artikel nr.<br/>Part No.</b> |
|--|---------------------------------|--|---------------------------------|
| M6x25x12                                   | 953031                          | M10x120x105                                | 953001 <sup>1)</sup>            |
| M6x25x15                                   | 924050 <sup>1)</sup>            | M10x182x167                                | 948932 <sup>2)</sup>            |
| M6x28x15                                   | 953032                          | M10x210x195                                | 130199 <sup>2)</sup>            |
| M6x35x22                                   | 953035                          | M12x45x28                                  | 924092 <sup>1)</sup>            |
| M6x48x35                                   | 953040                          | M12x50x28                                  | 953096                          |
| M6x52x39                                   | 948606 <sup>2)</sup>            | M12x50x33                                  | 924094 <sup>1)</sup>            |
| M8x30x18                                   | 924060 <sup>1)</sup>            | M12x55x33                                  | 953098                          |
| M8x32x16                                   | 953042                          | <del>M12x55x38</del>                       | <del>924096</del> <sup>1)</sup> |
| M8x35x19                                   | 953043                          | M12x60x38                                  | 953100                          |
| M8x35x23                                   | 924062 <sup>1)</sup>            | M12x60x43                                  | 924098 <sup>1)</sup>            |
| M8x38x22                                   | 953044                          | M12x65x43                                  | 953102                          |
| M8x40x24                                   | 953045                          | M12x70x48                                  | 953103                          |
| M8x40x28                                   | 924064 <sup>1)</sup>            | M12x70x53                                  | 924101 <sup>1)</sup>            |
| M8x45x29                                   | 953047                          | M12x75x53                                  | 953104                          |
| M8x45x33                                   | 924066 <sup>1)</sup>            | M12x80x58                                  | 953105                          |
| M8x50x34                                   | 953049                          | M12x90x68                                  | 953107                          |
| M8x55x39                                   | 953051                          | M12x100x78                                 | 953109                          |
| M8x55x43                                   | 924070 <sup>1)</sup>            | M12x100x88                                 | 953111                          |
| M8x60x44                                   | 953053                          | M12x115x100                                | 346690 <sup>2)</sup>            |
| M8x60x48                                   | 924072 <sup>1)</sup>            | M12x130x108                                | 953115                          |
| M8x65x49                                   | 953055                          | M12x130x113                                | 953014 <sup>1)</sup>            |
| M8x80x64                                   | 953058                          | M14x52x37                                  | 967951 <sup>1)</sup>            |
| M8x85x69                                   | 953059                          | M14x58x37                                  | 130403 <sup>1)</sup>            |
| M8x90x78                                   | 952991 <sup>1)</sup>            | M14x70x49                                  | 949557 <sup>1)</sup>            |
| M8x100x88                                  | 952993 <sup>1)</sup>            | M16x70x48                                  | 924112 <sup>1)</sup>            |
| M8x110x98                                  | 17942 <sup>2)</sup>             | M16x105x83                                 | 924119 <sup>1)</sup>            |
| M8x120x104                                 | 968278 <sup>2)</sup>            | M20x90x63                                  | 924130 <sup>1)</sup>            |
| M10x35x20                                  | 924075 <sup>1)</sup>            |  |                                 |
| <b>M10x38x18</b>                           | <b>953064</b>                   |  |                                 |
| M10x38x23                                  | 924076 <sup>1)</sup>            |  |                                 |
| M10x42x27                                  | 924078 <sup>1)</sup>            |  |                                 |
| M10x45x25                                  | 953067                          |  |                                 |
| <del>M10x50x30</del>                       | <del>953069</del>               |  |                                 |
| M10x52x37                                  | 924082 <sup>1)</sup>            |  |                                 |
| M10x55x35                                  | 953071                          |  |                                 |
| M10x55x40                                  | 924083 <sup>1)</sup>            |  |                                 |
| M10x60x40                                  | 953073                          |  |                                 |
| M10x65x45                                  | 953075                          |  |                                 |
| M10x65x50                                  | 924087 <sup>1)</sup>            |  |                                 |
| M10x70x55                                  | 924088 <sup>1)</sup>            |  |                                 |
| M10x75x55                                  | 953077                          |  |                                 |
| M10x75x60                                  | 924089 <sup>1)</sup>            |  |                                 |
| M10x90x70                                  | 953080                          |  |                                 |
| M10x90x75                                  | 952995 <sup>1)</sup>            |  |                                 |
| M10x100x80                                 | 953082                          |  |                                 |
| M10x100x85                                 | 952997 <sup>1)</sup>            |  |                                 |
| <del>M10x105x90</del>                      | <del>952998</del> <sup>1)</sup> |  |                                 |
| M10x115x100                                | 953000 <sup>1)</sup>            |  |                                 |

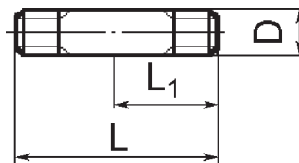
**PS 8.8 M-gänga zib**

Elförzinkade zink-järn, svartkromaterade

**PS 8.8 M-thread zib**

Electro-zincplated zinc-iron, black chromated

STD drawing 1052128

**Dimension**  
**D × L × L<sub>1</sub>****Artikel nr.**  
**Part No.****Dimension****Artikel nr.**  
**Part No.**

M8x70x58

980279

M8x80x68

981051

M10x60x40

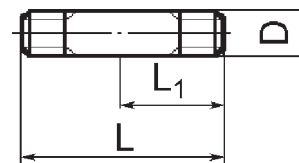
968932

**PS 10.9 M-gänga fos**

Fosfaterade

**PS 10.9 M-thread fos**

Phosphated

STD drawing 1052548, 1591028 <sup>1)</sup>**Dimension**  
**D × L × L<sub>1</sub>****Artikel nr.**  
**Part No.****Dimension****Artikel nr.**  
**Part No.**

M10x50x35

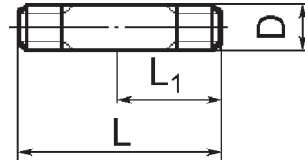
981542

M10x125x105

981732

M14x62x41

1591028 <sup>1)</sup>

**PS 8.8 UNC-gänga fos****Fosfaterade****PS 8.8 UNC-thread fos****Phosphated**STD drawing 1054061, 1054239 <sup>2)</sup>, STD 17126,2502 <sup>1)</sup>

| <b>Dimension<br/>D x L x L<sub>1</sub></b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension<br/>D x L x L<sub>1</sub></b> | <b>Artikel nr.<br/>Part No.</b> |
|--|---------------------------------|--|---------------------------------|
| 1/4UNCx25x15                               | 953224 <sup>2)</sup>            | 9/16UNCx52x32                              | 953345 <sup>2)</sup>            |
| 1/4UNCx30x20                               | 953226 <sup>2)</sup>            | 9/16UNCx60x40                              | 953348 <sup>2)</sup>            |
| 1/4UNCx38x28                               | 953229 <sup>2)</sup>            | 9/16UNCx65x39                              | 953575                          |
| 1/4UNCx32x19                               | 953452                          | <del>9/16UNCx70x50</del>                   | <del>953351</del> <sup>2)</sup> |
| 1/4UNCx40x27                               | 953455                          | 9/16UNCx75x49                              | 953577                          |
| 5/16UNCx32x20                              | 953236 <sup>2)</sup>            | 9/16UNCx80x60                              | 953353 <sup>2)</sup>            |
| 5/16UNCx45x33                              | 953241 <sup>2)</sup>            | 9/16UNCx85x59                              | 953579                          |
| 5/16UNCx50x38                              | 953243 <sup>2)</sup>            | 9/16UNCx85x65                              | 953354 <sup>2)</sup>            |
| 5/16UNCx55x43                              | 953245 <sup>2)</sup>            | 9/16UNCx100x80                             | 953357 <sup>2)</sup>            |
| 5/16UNCx65x53                              | 953249 <sup>2)</sup>            | 9/16UNCx220x200                            | 949895 <sup>1)</sup>            |
| 5/16UNCx70x54                              | 953475                          |  |                                 |
| 5/16UNCx100x88                             | 953256 <sup>2)</sup>            |  |                                 |
| 3/8UNCx35x21                               | 953257 <sup>2)</sup>            |  |                                 |
| 3/8UNCx40x26                               | 953259 <sup>2)</sup>            |  |                                 |
| 3/8UNCx45x27                               | 953486                          |  |                                 |
| 3/8UNCx45x31                               | 953261 <sup>2)</sup>            |  |                                 |
| 3/8UNCx50x32                               | 953488                          |  |                                 |
| <del>3/8UNCx50x36</del>                    | <del>963263</del> <sup>2)</sup> |  |                                 |
| 3/8UNCx55x37                               | 953490                          |  |                                 |
| 3/8UNCx60x42                               | 953492                          |  |                                 |
| 3/8UNCx60x46                               | 953267 <sup>2)</sup>            |  |                                 |
| 3/8UNCx65x47                               | 953494                          |  |                                 |
| 3/8UNCx70x52                               | 953495                          |  |                                 |
| <del>3/8UNCx75x57</del>                    | <del>953496</del>               |  |                                 |
| <del>3/8UNCx80x62</del>                    | <del>953497</del>               |  |                                 |
| 3/8UNCx80x66                               | 953272 <sup>2)</sup>            |  |                                 |
| 3/8UNCx90x72                               | 953499                          |  |                                 |
| <del>3/8UNCx105x91</del>                   | <del>953277</del> <sup>2)</sup> |  |                                 |
| 3/8UNCx115x97                              | 953504                          |  |                                 |
| 3/8UNCx120x102                             | 953505                          |  |                                 |
| <del>3/8UNCx120x106</del>                  | <del>953280</del> <sup>2)</sup> |  |                                 |
| 7/16UNCx38x22                              | 953287 <sup>2)</sup>            |  |                                 |
| 7/16UNCx50x29                              | 953517                          |  |                                 |
| 7/16UNCx52x36                              | 953293 <sup>2)</sup>            |  |                                 |
| 7/16UNCx55x34                              | 953519                          |  |                                 |
| 7/16UNCx60x39                              | 953521                          |  |                                 |
| 7/16UNCx62x41                              | 953522                          |  |                                 |
| 7/16UNCx70x49                              | 953524                          |  |                                 |
| 7/16UNCx75x54                              | 953525                          |  |                                 |
| 7/16UNCx80x59                              | 953526                          |  |                                 |
| 7/16UNCx64                                 | 953527                          |  |                                 |
| 7/16UNCx105x84                             | 953531                          |  |                                 |
| 7/16UNCx110x89                             | 953532                          |  |                                 |
| 7/16UNCx120x99                             | 953534                          |  |                                 |
| 7/16UNCx130x109                            | 953536                          |  |                                 |
| 1/2UNCx42x24                               | 953316 <sup>2)</sup>            |  |                                 |
| 1/2UNCx45x22                               | 953542                          |  |                                 |
| <del>1/2UNCx45x27</del>                    | <del>953317</del> <sup>2)</sup> |  |                                 |

## PS 10.9 UNC-gänga fos

### Fosfaterade

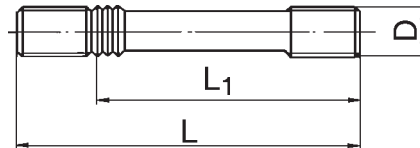
Lång godsände

## PS 10.9 UNC-thread fos

### Phosphated

Long stud end

STD 7126,27



**Dimension**

**D × L × L<sub>1</sub>**

**Artikel nr.**

**Part No.**

**Dimension**

**Artikel nr.**

**Part No.**

3/8UNCx45x27

960932

9/16UNCx115x89

961031

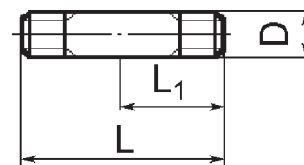
## PS 10.9 UNF-gänga fos

### Fosfaterade

## PS 10.9 UNF-thread fos

### Phosphated

STD drawing 158851



**Dimension**

**D × L × L<sub>1</sub>**

**Artikel nr.**

**Part No.**

**Dimension**

**Artikel nr.**

**Part No.**

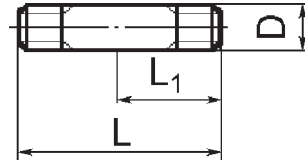
1/2UNFx63x41

158851

**PS 8.8 M-gänga**  
Rostfritt stål A4-80

**PS 8.8 M-thread**  
Stainless steel A4-80

STD drawing 1052133

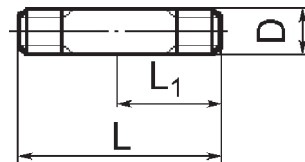


| Dimension<br>D x L x L <sub>1</sub> | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|-------------------------------------|-------------------------|-----------|-------------------------|
| M8x35x23                            | 980289                  |           |                         |
| M8x45x33                            | 980336                  |           |                         |
| M8x65x53                            | 981307                  |           |                         |
| M10x43x28                           | 977297                  |           |                         |
| M10x50x35                           | 977298                  |           |                         |
| M10x58x43                           | 977299                  |           |                         |

**PS M-gänga**  
Rostfritt stål 2570-04

**PS M-thread**  
Stainless steel 2570-04

STD drawing 1052691

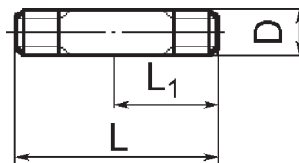


| Dimension<br>D x L x L <sub>1</sub> | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|-------------------------------------|-------------------------|-----------|-------------------------|
| M8x55x43                            | 977511                  |           |                         |
| M10x50x35                           | 977581                  |           |                         |
| M10x75x55                           | 980868                  |           |                         |

**PS M-gänga**  
Rostfritt stål 2332

**PS M-thread**  
Stainless steel 2332

STD drawing 1052646

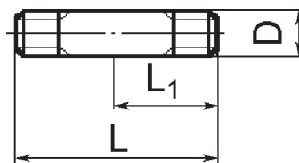


| Dimension<br>$D \times L \times L_1$ | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------------------------|-------------------------|-----------|-------------------------|
| M8x40x28                             | 949702                  |           |                         |
| M8x50x38                             | 980765                  |           |                         |

**PS M-gänga**  
Nickel

**PS M-thread**  
Nickel alloy

STD drawing 1054110

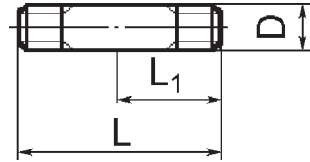


| Dimension<br>$D \times L \times L_1$ | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------------------------|-------------------------|-----------|-------------------------|
| M8x40x28                             | 1357769                 |           |                         |

**PS UNC-gänga**  
**Rostfritt A2-80**

**PS UNC-thread**  
**Stainless A2-80**

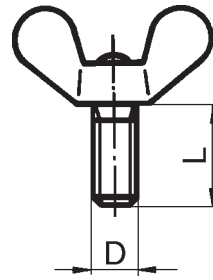
STD drawing 1058115



| Dimension<br>$D \times L \times L_1$ | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------------------------|-------------------------|-----------|-------------------------|
|--------------------------------------|-------------------------|-----------|-------------------------|

|                |        |  |  |
|----------------|--------|--|--|
| 1/4UNCx122x109 | 945474 |  |  |
|----------------|--------|--|--|

**Vingskruv 4.6 M-gänga zib**  
Elförzinkade zink-järn, svartkromaterade



**Wing screw 4.6 M-thread zib**  
Electro-zincplated zinc-iron, black  
chromated

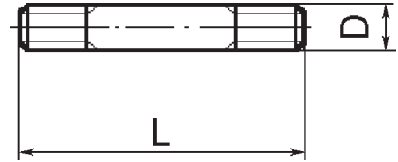
STD drawing 1053572

| <b>Dimension<br/>D x L</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension<br/>D x L</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|----------------------------|---------------------------------|
| M6x16                      | 965036                          | M10x25                     | 965057                          |
| M8x20                      | 965047                          | M10x40                     | 965060                          |
| M8x30                      | 965049                          | M10x60                     | 965062                          |



**Reglerstänger 5.8 / 8.8 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

**Control rods 5.8 / 8.8 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**



STD drawing 1053267, 1053272 <sup>1)</sup>

| <b>Dimension<br/>D x L</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension<br/>D x L</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|----------------------------|---------------------------------|
| M6x70                      | 963832                          | M8x260                     | 974902 <sup>1)</sup>            |
| M6x85                      | 974815 <sup>1)</sup>            | M8x280                     | 965931                          |
| M6x90                      | 963835                          | M8x300                     | 965932                          |
| M6x105                     | 974819 <sup>1)</sup>            | M8x300                     | 974906 <sup>1)</sup>            |
| M6x115                     | 190547                          | M8x320                     | 965934                          |
| M6x125                     | 963840                          | M8x325                     | 946178                          |
| M6x130                     | 963841                          | M8x340                     | 965936                          |
| M6x135                     | 963842                          | M8x370                     | 965938                          |
| <del>M6x140</del>          | <del>25417</del>                | M8x400                     | 965941                          |
| M6x160                     | 974830 <sup>1)</sup>            | M8x430                     | 965944                          |
| M6x150                     | 963844                          | M10x250                    | 966005                          |
| M6x180                     | 974871 <sup>1)</sup>            | M10x285                    | 117922                          |
| M6x185                     | 974872 <sup>1)</sup>            |                            |                                 |
| M6x190                     | 974873 <sup>1)</sup>            |                            |                                 |
| M6x195                     | 963850                          |                            |                                 |
| M6x210                     | 963851                          |                            |                                 |
| M6x230                     | 945588                          |                            |                                 |
| M6x240                     | 974879 <sup>1)</sup>            |                            |                                 |
| M6x270                     | 945589                          |                            |                                 |
| M6x280                     | 963854                          |                            |                                 |
| M6x290                     | 974885 <sup>1)</sup>            |                            |                                 |
| M6x300                     | 117112                          |                            |                                 |
| M6x370                     | 974932 <sup>1)</sup>            |                            |                                 |
| <del>M6x390</del>          | <del>963860</del>               |                            |                                 |
| M6x410                     | 963862                          |                            |                                 |
| M6x460                     | 945592                          |                            |                                 |
| M6x500                     | 963868                          |                            |                                 |
| M8x55                      | 974850 <sup>1)</sup>            |                            |                                 |
| M8x80                      | 965903                          |                            |                                 |
| M8x90                      | 974835 <sup>1)</sup>            |                            |                                 |
| M8x95                      | 965906                          |                            |                                 |
| M8x100                     | 965907                          |                            |                                 |
| M8x100                     | 974837 <sup>1)</sup>            |                            |                                 |
| M8x120                     | 974841 <sup>1)</sup>            |                            |                                 |
| M8x130                     | 965912                          |                            |                                 |
| M8x145                     | 942566                          |                            |                                 |
| M8x150                     | 965915                          |                            |                                 |
| M8x160                     | 948477                          |                            |                                 |
| M8x170                     | 965918                          |                            |                                 |
| M8x180                     | 965920                          |                            |                                 |
| M8x200                     | 965924                          |                            |                                 |
| M8x210                     | 965925                          |                            |                                 |
| M8x220                     | 965926                          |                            |                                 |
| M8x220                     | 974896 <sup>1)</sup>            |                            |                                 |
| M8x240                     | 965928                          |                            |                                 |
| M8x250                     | 974900 <sup>1)</sup>            |                            |                                 |
| M8x260                     | 948386                          |                            |                                 |

1) Property class 8.8

## Centrumskruv 10.9 M-gänga

### Fosfaterade

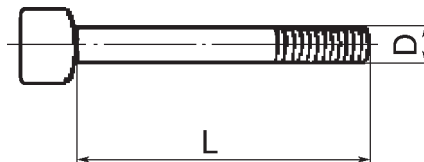
För bladfjädrar

## Centre bolt 10.9 M-thread

### Phosphated

For spring leaves

STD drawing 1691490



| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x80             | 948180                  |           |                         |
| M12x85             | 947767                  |           |                         |
| M12x100            | 963162                  |           |                         |
| M12x105            | 963163                  |           |                         |
| M12x110            | 963164                  |           |                         |
| M12x110            | 949179                  |           |                         |
| M12X115            | 945337                  |           |                         |
| M12x120            | 963165                  |           |                         |
| M12x120            | 949245                  |           |                         |
| <del>M12x125</del> | <del>948003</del>       |           |                         |
| M12x125            | 963166                  |           |                         |
| M12x130            | 963167                  |           |                         |
| M12x135            | 945338                  |           |                         |
| M12x140            | 963168                  |           |                         |
| M12x140            | 1585205                 |           |                         |
| M12x150            | 963169                  |           |                         |
| M12x160            | 963170                  |           |                         |
| M12x160            | 1585260                 |           |                         |
| M12x170            | 963171                  |           |                         |
| M12x180            | 963172                  |           |                         |
| M12x190            | 963173                  |           |                         |
| M12x190            | 1587114                 |           |                         |
| M12x200            | 963174                  |           |                         |
| M12x210            | 963175                  |           |                         |
| M12x210            | 946935                  |           |                         |
| M12x220            | 963176                  |           |                         |
| M12x230            | 963177                  |           |                         |
| M12x240            | 963178                  |           |                         |
| M12x250            | 963179                  |           |                         |
| M12x250            | 947610                  |           |                         |
| M12x260            | 963180                  |           |                         |
| M12x270            | 963181                  |           |                         |
| M12x290            | 963183                  |           |                         |
| M12x310            | 963184                  |           |                         |
| M12x320            | 963185                  |           |                         |

## Fjäderkrampor M 10.9

Lackerade

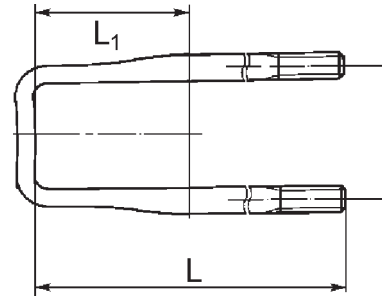
Stål

## U-bolts M 10.9

Painted

Steel

STD drawing 1052742, 1058204



| Dimension<br>d x L <sub>1</sub> x L | Artikel nr.<br>Part No. | Dimension<br>d x L <sub>1</sub> x L | Artikel nr.<br>Part No. |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| M24x102x350                         | 1590925                 | M24x102x470                         | 1590933                 |
| M24x102x380                         | 1590926                 | M24x102x500                         | 1590934                 |
| M24x102x390                         | 1590927                 | M24x102x510                         | 1590956                 |
| M24x102x400                         | 1590928                 | M24x102x510                         | 983417                  |
| M24x102x420                         | 1590929                 | M24x102x530                         | 1590935                 |
| M24x102x430                         | 1590930                 | M24x102x570                         | 1590937                 |
| M24x102x450                         | 1590931                 | M24x102x580                         | 1594220                 |
| M24x102x460                         | 1590932                 | M24x102x650                         | 1678611                 |
| M24x102x460                         | 983414                  | M24x102x730                         | 1568792                 |

## Fjäderkrampor M 10.9

Lackerade

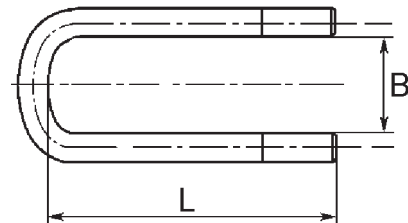
Stål

## U-bolts M 10.9

Painted

Steel

STD drawing 1052789, 20442797



| Dimension<br>d x B x L | Artikel nr.<br>Part No. | Dimension<br>d x B x L | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| M24x77x400             | 1628490                 | M24x91x375             | 3199053                 |
| M24x77x400             | 20442792                | M24x91x375             | 20442794                |
| M24x77x445             | 1626895                 | M24x91x390             | 1628337                 |
| M24x77x445             | 20442793                | M24x91x420             | 1628108                 |
| M24x91x235             | 1590066                 | M24x91x420             | 20442795                |
| M24x91x260             | 1609621                 | M24x102x360            | 1610371                 |
| M24x91x310             | 1585094                 | M24x102x380            | 1590944                 |
| M24x91x330             | 1585095                 | M24x102x390            | 1590945                 |
| M24x91x340             | 1078040                 | M24x102x400            | 1629404                 |
| M24x91x370             | 1585096                 | M24x102x410            | 1590946                 |
|                        |                         | M24x102x410            | 20442796                |

## Fjäderkrampor M 10.9

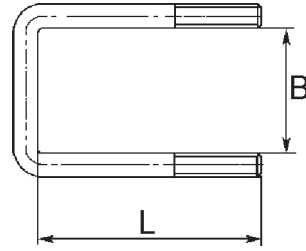
### Lackerade

Stål, Grov stigning, Rullgängade

## U-bolts M 10.9

### Painted

Steel, Coarse pitch, Rolled thread



STD drawing 1053562, 20442791

| Dimension<br>d x B x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| M20x102x185            | 1590938                 |           |                         |
| M20x102x185            | 20442786                |           |                         |
| M20x102x210            | 1590939                 |           |                         |
| M20x102x210            | 20442787                |           |                         |
| M20x102x235            | 1590940                 |           |                         |
| M20x102x235            | 20442788                |           |                         |
| M20x102x260            | 1590941                 |           |                         |
| M20x102x260            | 20442789                |           |                         |
| M20x102x285            | 1590942                 |           |                         |
| M20x102x285            | 20442790                |           |                         |

**MF-gänga, Sexkantsmuttrar****MF-thread, Hexagon nuts**

| <b>Gänga D<br/>Thread D</b> | <b>M5</b> | <b>M6</b> | <b>M8</b> | <b>M10</b> | <b>M12</b> | <b>M14</b> | <b>M16</b> |
|-----------------------------|-----------|-----------|-----------|------------|------------|------------|------------|
| Stigning<br>Pitch           | 0,5       | 0,75      | 1         | 1,25       | 1,25       | 1,5        | 1,5        |
| s                           | 8         | 10        | 13        | 17         | 19         | 22         | 24         |
| e                           | 9,2       | 11,5      | 15        | 19,6       | 21,9       | 25,4       | 27,7       |
| H                           | 4         | 5         | 6,5       | 8          | 10         | 11         | 13         |

| <b>Gänga D<br/>Thread D</b> | <b>M20</b> | <b>M24</b> |
|-----------------------------|------------|------------|
| Stigning<br>Pitch           | 1,5        | 2          |
| s                           | 30         | 36         |
| e                           | 34,6       | 41,6       |
| H                           | 16         | 19         |

**MF-gänga, Sexkantlåsmuttrar****MF-thread, Hexagon lock nuts**

| <b>Gänga D<br/>Thread D</b> | <b>M6</b> | <b>M8</b> | <b>M10</b> | <b>M12</b> | <b>M14</b> | <b>M16</b> | <b>M18</b> |
|-----------------------------|-----------|-----------|------------|------------|------------|------------|------------|
| Stigning<br>Pitch           | 0,75      | 1         | 1 (1,25)   | 1,25       | 1,5        | 1,5        | 1,5        |
| s                           | 10        | 13        | 17         | 19         | 22         | 24         | 27         |
| e                           | 11,5      | 15        | 19,6       | 21,9       | 25,4       | 27,7       | 31,2       |
| H                           | 6,6       | 8,5       | 10         | 12         | 14         | 16         | 16         |

| <b>Gänga D<br/>Thread D</b> | <b>M20</b> | <b>M22</b> |
|-----------------------------|------------|------------|
| Stigning<br>Pitch           | 1,5        | 1,5        |
| s                           | 30         | 32         |
| e                           | 34,6       | 36,9       |
| H                           | 18         | 20         |

**M-gänga, Mutter M-grov**  
**M-thread, Nuts M-large**

| <b>Gänga D<br/>Thread D</b> | <b>M3</b> | <b>M4</b> | <b>M5</b> | <b>M6</b> | <b>M7</b> | <b>M8</b> | <b>M10</b> |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Stigning<br>Pitch           | 0,5       | 0,7       | 0,8       | 1         | 1         | 1,25      | 1,5        |
| s                           | 5,5       | 7         | 8         | 10        | 11        | 13        | 17 (16)    |
| e                           | 6,6       | 7,7       | 8,8       | 11,1      | 12,1      | 14,4      | 18,9       |
| H                           | 2,4       | 3,2       | 4 (4,7)   | 5 (5,2)   | 5,5 (6,5) | 6,5 (6,8) | 8 (8,4)    |

| <b>Gänga D<br/>Thread D</b> | <b>M12</b> | <b>M14</b> | <b>M16</b> | <b>M18</b> | <b>M20</b> | <b>M24</b> |
|-----------------------------|------------|------------|------------|------------|------------|------------|
| Stigning<br>Pitch           | 1,75       | 2          | 2          | 2,5        | 2,5        | 3          |
| s                           | 19 (18)    | 22 (21)    | 24         | 27         | 30         | 36         |
| e                           | 21,1       | 24,5       | 26,8       | 29,6       | 33         | 39,6       |
| H                           | 10 (10,8)  | 11 (12,8)  | 13 (14,8)  | 15 (15,8)  | 16 (18)    | 19 (21,5)  |

**M-gänga, Sexkantlåsmuttrar M-grov**  
**M-thread, Hexagon lock nuts M-large**

| <b>Gänga D<br/>Thread D</b> | <b>M5</b> | <b>M6</b> | <b>M8</b> | <b>M10</b> | <b>M12</b> | <b>M14</b> | <b>M16</b> |
|-----------------------------|-----------|-----------|-----------|------------|------------|------------|------------|
| Stigning<br>Pitch           | 0,8       | 1         | 1,25      | 1,5        | 1,75       | 2          | 2          |
| s                           | 8         | 10        | 13        | 16 (17)    | 18 (19)    | 21 (22)    | 24         |
| e                           | 8,8       | 11        | 14,4      | 17,8       | 20         | 23,4       | 26,8       |
| H                           | 5,1       | 6         | 8         | 10         | 12         | 14,1       | 16,4       |

| <b>Gänga D<br/>Thread D</b> | <b>M18</b> | <b>M20</b> | <b>M24</b> |
|-----------------------------|------------|------------|------------|
| Stigning<br>Pitch           | 2,5        | 2,5        | 3          |
| s                           | 27         | 30         | 36         |
| e                           | 29,9       | 33,3       | 39,6       |
| H                           | 16,2       | 18         | 21,6       |

**Sexkantsmuttrer UNF-gänga**  
**Hexagon nuts UNF-thread**

| <b>Gänga D</b><br><b>Thread D</b> | <b>1/4</b> | <b>5/16</b> | <b>3/8</b> | <b>7/16</b> | <b>1/2</b> | <b>9/16</b> | <b>5/8</b> |
|-----------------------------------|------------|-------------|------------|-------------|------------|-------------|------------|
| Gängor/Tum<br>Thread/Inch         | 28         | 24          | 24         | 20          | 20         |             | 18         |
| s/Tum<br>s/Inch                   | 7/16       | 1/2         | 9/16       | 11/16       | 3/4        |             | 15/16      |
| s/mm                              | 11,1       | 12,7        | 14,3       | 17,5        | 19         |             | 23,8       |
| e                                 | 12,8       | 14,7        | 16,5       | 20,2        | 22         |             | 27,7       |
| H                                 | 5,6        | 6,7         | 8,3        | 9,5         | 11,1       |             | 13,9       |

| <b>Gänga D</b><br><b>Thread D</b> | <b>3/4</b>       | <b>7/8</b>        |
|-----------------------------------|------------------|-------------------|
| Gängor/Tum<br>Thread/Inch         | 16               | 14                |
| s/Tum<br>s/Inch                   | 1 <sup>1/8</sup> | 1 <sup>5/16</sup> |
| s/mm                              | 28,6             | 33,3              |
| e                                 | 33               | 38,5              |
| H                                 | 16,3             | 19,1              |

**Sexkantsmutterer UNC-gänga**  
**Hexagon nuts UNC-thread**

| <b>Gänga D</b><br><b>Thread D</b> | <b>1/4</b> | <b>5/16</b> | <b>3/8</b> | <b>7/16</b> | <b>1/2</b> | <b>9/16</b> | <b>5/8</b>        |
|-----------------------------------|------------|-------------|------------|-------------|------------|-------------|-------------------|
| Gängor/Tum<br>Thread/Inch         | 20         | 18          | 16         | 14          | 13         | 12          | 11                |
| s/Tum<br>s/Inch                   | 7/16       | 1/2         | 9/16       | 11/16       | 3/4        | 7/8         | 1 <sup>5/16</sup> |
| s/mm                              | 11,1       | 12,7        | 14,3       | 17,5        | 19         | 22,2        | 23,8              |
| e                                 | 12,8       | 14,7        | 16,5       | 20,2        | 22         | 25,7        | 27,7              |
| H                                 | 5,6        | 6,7         | 8,3        | 9,5         | 11,1       | 12,3        | 13,9              |

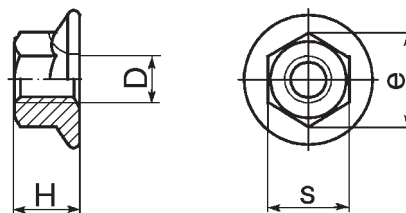
| <b>Gänga D</b><br><b>Thread D</b> | <b>3/4</b>       | <b>7/8</b>        | <b>1</b>         |
|-----------------------------------|------------------|-------------------|------------------|
| Gängor/Tum<br>Thread/Inch         | 10               | 9                 | 8                |
| s/Tum<br>s/Inch                   | 1 <sup>1/8</sup> | 1 <sup>5/16</sup> | 1 <sup>1/2</sup> |
| s/mm                              | 28,6             | 33,3              | 38,1             |
| e                                 | 33               | 38,5              | 44               |
| H                                 | 16,3             | 19,1              | 21,8             |



**M6MF 8 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

**M6MF 8 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

STD drawing 1052339



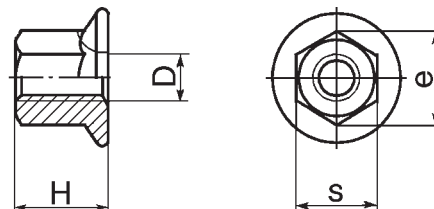
| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M5x5               | 965483                  | M12x12             | 971096                  |
| M6x6               | 945407                  | M14x14             | 971097                  |
| M8x8               | 945408                  | M16x16             | 966818                  |
| M10x10             | 971095                  | M20x20             | 975142                  |

**M6MF 8 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**  
 Höga och med urtag för ökad klämlängd

**M6MF 8 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

High and with recess for increased clamping length

STD drawing 1052663

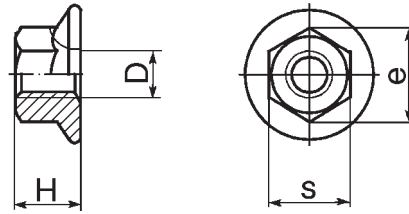


| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M12x19,8           | 979230                  |                    |                         |
| M14x22,9           | 979231                  |                    |                         |

**M6MF 8 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**  
 Vänstergängade

**M6MF 8 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**  
 Left handed

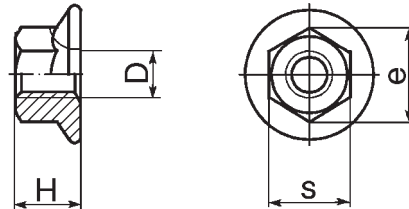
STD drawing 1052581



| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M5x5LH             | 969355                  |           |                         |

**M6MF 10 M-gänga**  
**Lackerade, metallgrå**  
**M6MF 10 M-thread**  
**Painted, metallic grey**

STD drawing 1052597



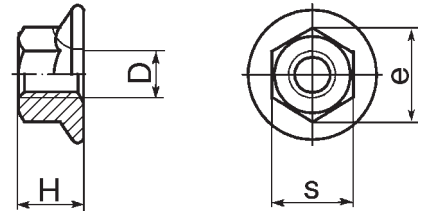
| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x12             | 979013                  |           |                         |
| M14x14             | 979014                  |           |                         |
| M16x16             | 979015                  |           |                         |

**M6MF 10 M-gänga****Elförzinkad**

Stål, provlast 245 kN min.

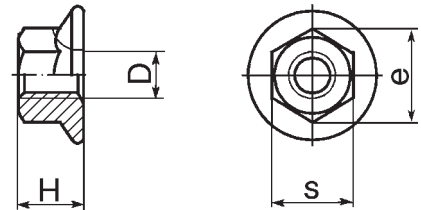
**M6MF 10 M-thread****Electro-zincplated**

Steel, proof load 245 kN min.



STD drawing 948502

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M20x20             | 948902                  |           |                         |

**M6MF 12 M-gänga fos****Fosfaterade****M6MF 12 M-thread fos****Phosphated**

STD drawing 1577510

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M18x20             | 1577510                 |           |                         |

## M6MF 8 M-gänga zib

### Elförzinkade zink-järn, svartkromaterade

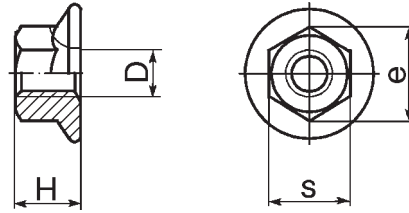
Flänslåsmutter, helmetallisk

## M6MF 8 M-thread zib

### Electro-zincplated zinc-iron, black chromated

Flange lock nut, all metal type

STD drawing 1052340



**Dimension**  
**D x H**

**Artikel nr.**  
**Part No.**

M5x5 949874  
M6x6 949278  
M8x8 948645

**Dimension**  
**D x H**

**Artikel nr.**  
**Part No.**

M10x10 971098  
M12x12 971099  
M14x14 971100

## M6MF 8 M-gänga fos

### Fosfaterade

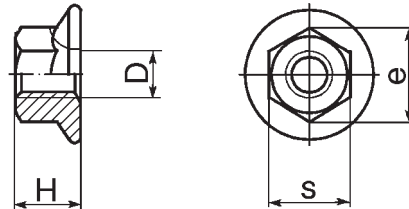
Flänslåsmutter

## M6MF 8 M-thread fos

### Phosphated

Flange lock nut

STD drawing 1053522



**Dimension**  
**D x H**

**Artikel nr.**  
**Part No.**

M20x18 947855

**Dimension**

**Artikel nr.**  
**Part No.**

### M6MF 8 M-gänga zib

#### Elförzinkade zink-järn, svartkromaterade

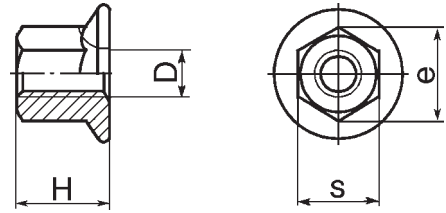
Flänslåsmutter, helmetalliska, höga och med urtag för ökad klämlängd

### M6MF 8 M-thread zib

#### Electro-zincplated zinc-iron, black chromated

Flange lock nut, all metal type, high and with recess for increased clamping length

STD drawing 1052558



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M10x16,4           | 969322                  |           |                         |

### M6MF 8 M-gänga zib

#### Elförzinkade zink-järn, svartkromaterade

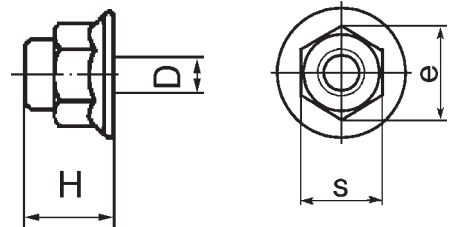
Flänslåsmutter med plastinsats

### M6MF 8 M-thread zib

#### Electro-zincplated zinc-iron, black chromated

Flange lock nut with nylon insert

STD drawing 1052638, 1052131 <sup>1)</sup>



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x16,1           | 977938                  |           |                         |
| M14x18,2           | 977939                  |           |                         |
| M16x20,3           | 946673 <sup>1)</sup>    |           |                         |

## M6MF 10 M-gänga fos

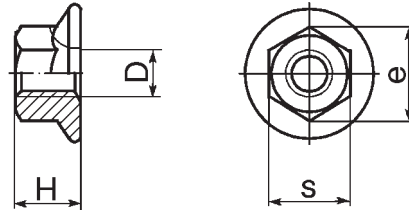
### Fosfaterade

Flänslåsmutter, helmetallisk

## M6MF 10 M-thread fos

### Phosphated

Flange lock nut, all metal type



STD drawing 1052591

| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M10x11,4           | 969316                  |           |                         |
| M12x13,8           | 969317                  |           |                         |
| M14x15,9           | 969306                  |           |                         |
| M16x18,3           | 969318                  |           |                         |

## M6MF 10 M-gänga

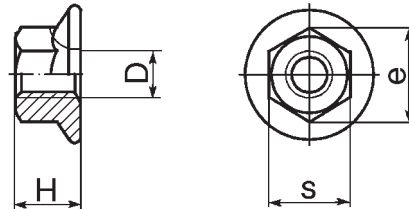
### Lackerade, metallgrå

Flänslåsmutter, helmetallisk

## M6MF 10 M-thread

### Painted, metallic grey

Flange lock nut, all metal type



STD drawing 1053759

| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x12             | 981521                  |           |                         |
| M14x14             | 981947                  |           |                         |
| M16x16             | 981948                  |           |                         |

## M6MF 10 M-gänga fos

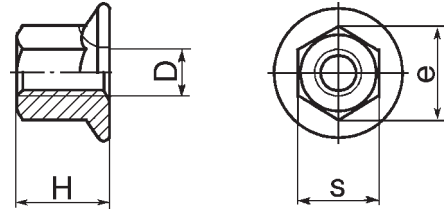
### Fosfaterade

Flänslåsmutter, helmetalliska, höga och med urtag för ökad klämlängd

## M6MF 10 M-thread fos

### Phosphated

Flange lock nut, all metal type, high and with recess for increased clamping length



STD drawing 1052779

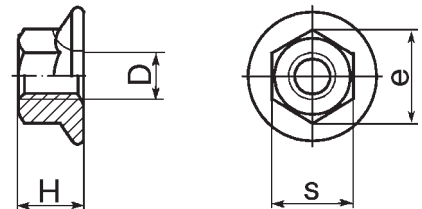
| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x19,8           | 981040                  |           |                         |

## U6MF 8 UNC-gänga

Elförzinkade zink-järn, gulkromaterade

## U6MF 8 UNC-thread

Electro-zincplated zinc-iron, yellow chromated



STD drawing 1057707

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 7/16UNCx10,5       | 946175                  |           |                         |

## M6MF M-gänga A2

Rostfri

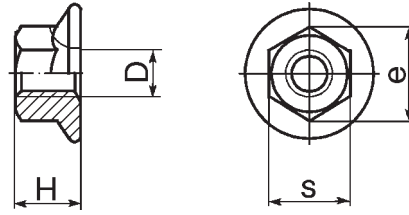
Hållfasthetsklass A2-80

## M6MF M-thread A2

Stainless

Property class A2-80

STD drawing 1053294



Dimension  
D x H

Artikel nr.  
Part No.

Dimension

Artikel nr.  
Part No.

M8x8

969391

M10x10

969392

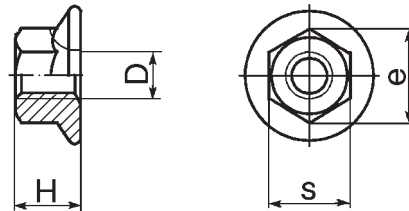
## U6MF 8 UNC-gänga

Rostfritt stål

## U6MF 8 UNC-thread

Stainless steel

STD drawing 942299



Dimension  
D x H

Artikel nr.  
Part No.

Dimension

Artikel nr.  
Part No.

3/8UNCx10

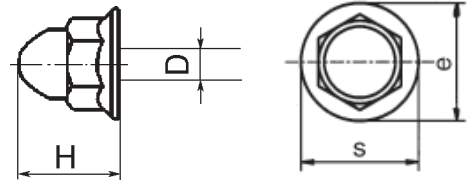
942299



**Flänshattmutter 6 M-gänga fzb**  
**Elförzignade , blankkromaterade**

**Cap flange nuts 6 M-thread fzb**  
**Electro zincplated, bright chromated**

STD drawing 1052582, 1052583 <sup>1)</sup>

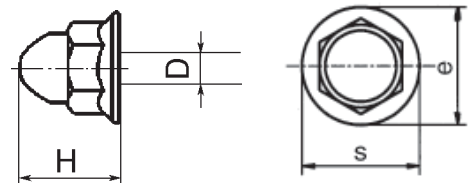


| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x12              | 948685                  |           |                         |
| M10x18,35          | 941696 <sup>1)</sup>    |           |                         |

**Flänshattmutter 8 M-gänga fzb**  
**Elförzignade , blankkromaterade**

**Cap flange nuts 8 M-thread fzb**  
**Electro zincplated, bright chromated**

STD drawing 1053556



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x12              | 968458                  |           |                         |

## M6M 8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

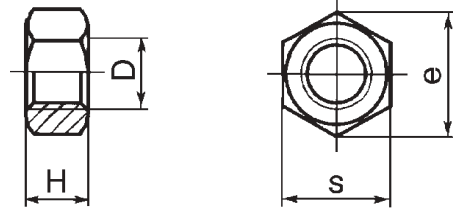
Belagda med skyddsvax

## M6M 8 M-thread zib

Electro-zincplated zinc-iron, black chromated

Coated with sealer

STD drawing 1052552



Dimension  
D × H

Artikel nr.  
Part No.

|        |        |
|--------|--------|
| M3x2,4 | 955778 |
| M4x3,2 | 955779 |
| M5x4,7 | 955780 |
| M6x5,2 | 955781 |
| M8x6,8 | 955782 |

Dimension

Artikel nr.  
Part No.

|          |        |
|----------|--------|
| M10x8,4  | 971071 |
| M12x10,8 | 971072 |
| M14x12,8 | 971073 |
| M16x14,8 | 955785 |
| M24x21,5 | 955787 |

## M6M 8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

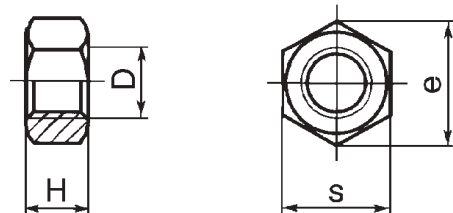
Belagda med skyddsvax, Speciella gängor

## M6M 8 M-thread zib

Electro-zincplated zinc-iron, black chromated

Coated with sealer, Special threads

STD drawing 1053344



Dimension  
D × H

Artikel nr.  
Part No.

|               |        |
|---------------|--------|
| M3,5x3,125    | 150205 |
| M8LHx6,68     | 949847 |
| M10x1x8,18    | 955801 |
| M12x1,5x10,18 | 955803 |

Dimension  
D × H

Artikel nr.  
Part No.

|              |        |
|--------------|--------|
| M14LHx11,215 | 959758 |
| M18x15,215   | 955806 |
| M18x16,215   | 10479  |

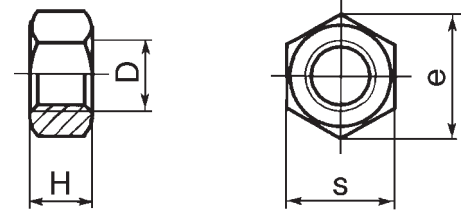
**M6M 8 MF-gänga zib**

Elförzinkade zink-järn, svartkromaterade

**M6M 8 MF-thread zib**

Electro-zincplated zinc-iron, black chromated

STD drawing 1053073



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M5x0,5x4           | 955789                  | M14x1,5x11         | 955804                  |
| M8x1x6,5           | 955800                  | M16x1,5x13         | 955805                  |
| M10x1,25x8         | 963915                  | M20x1,5x16         | 955807                  |
| M12x1,25x10        | 955802                  | M24x2x19           | 955808                  |

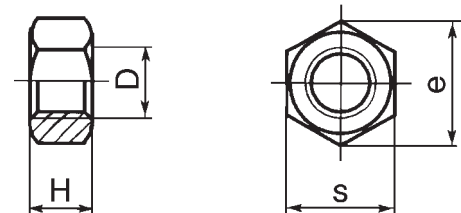
**M6M 8 MF-gänga**

Obehandlad

**M6M 8 MF-thread**

Untreated

STD drawing 1058113

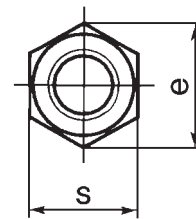
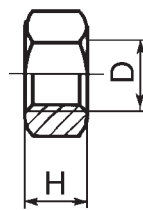


| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M20x1,5x16         | 951207                  |           |                         |

**M6M 8 M-gänga**  
**Förblyad**

**M6M 8 M-thread**  
**Lead coated**

STD drawing 1052573



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x6,68            | 948794                  |           |                         |

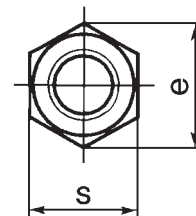
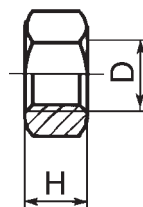
**M6M 8 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

Vänstergängade

**M6M 8 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

Left hand threaded

STD drawing 1052571



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6LHx5,2           | 980723                  |           |                         |

**M6M 10 MF-gänga zib**

Elförzinkade zink-järn, svartkromaterade

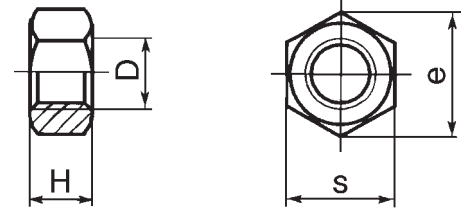
Höga

**M6M 10 MF-thread zib**

Electro-zincplated zinc-iron, black chromated

High

STD drawing 1054084



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M24x2x36           | 955817                  |           |                         |

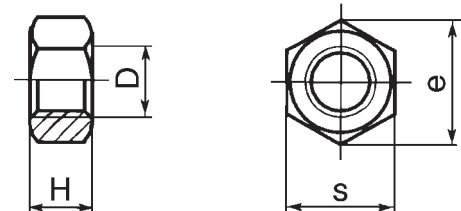
**M6M 10 M-gänga fos**

Fosfaterade

**M6M 10 M-thread fos**

Phosphated

STD drawing 1052551



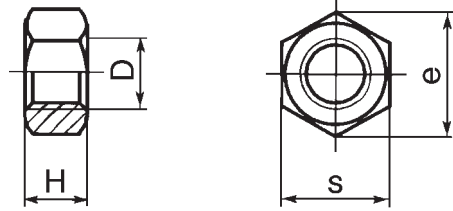
| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M10x8,4            | 971068                  |           |                         |
| M12x10,8           | 971069                  |           |                         |
| M20x18             | 979022 *                |           |                         |
| M24x21,5           | 961997                  |           |                         |

\* Drawing/Ritning 1052462, page/sid 134

**M6M 10 M-gänga**  
Lackerade, metallgrå

**M6M 10 M-thread**  
Painted, metallic grey

STD drawing 1052462



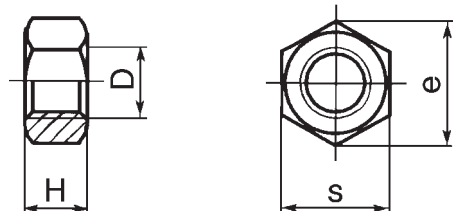
| Dimension<br>D × H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| M14x12,8           | 979020                  |
| M16x14,8           | 979021                  |
| M20x18             | 979022                  |
| M24x21,5           | 980521                  |

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**M6M MF-gänga**  
Mässing, förkromade

**M6M MF-thread**  
Brass, chromium plated

STD drawing 1053444



| Dimension<br>D × H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| M16x1x5,15         | 190734                  |

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

## Låsmutter 8 M-gänga zib

Elförzinkade zink-järn, svartkromaterade

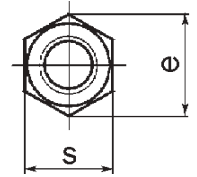
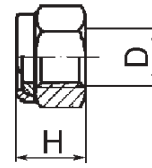
Nylonring

## Lock nuts 8 M-thread zib

Electro-zincplated zinc-iron, black chromated

Nylon insert

STD drawing 1052555



| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M4×6               | 963103                  | M16×19,1  | 963110                  |
| M5×6,8             | 963104                  | M18×18,5  | 943674 *                |
| M6×8               | 963105                  | M20×22,8  | 963111                  |
| M8×9,5             | 963106                  | M24×27,1  | 963096                  |
| M10×11,9           | 971089                  | M30×30    | 944689                  |
| M12×14,9           | 971090                  |           |                         |

\* Drawing/Ritning 1053359, page/sid 136

## Låsmutter 8 MF-gänga zib

Elförzinkad zink-järn, svartkromaterad

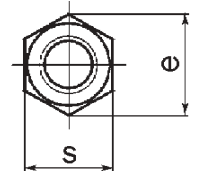
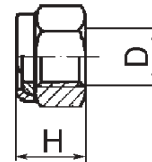
Nylonring

## Lock nuts 8 MF-thread zib

Electro-zincplated zinc-iron, black chromated

Nylon insert

STD drawing 1052150



| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension<br>D × H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M8x1x9,5           | 963117                  | M16x1,5x18         | 963121                  |
| M12x1,25x14        | 963119                  | M24x2x25           | 963123                  |

## Låsmutter 8 M-gänga zib

Elförzinkade zink-järn, svartkromaterad

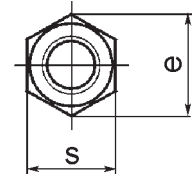
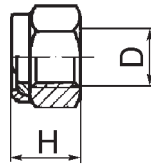
Med låsring av amidplast

## Lock nuts 8 M-thread zib

Electro-zincplated zinc-iron, black chromated

With lock ring of polyamide

STD drawing 1053359



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M3x4               | 966650                  |           |                         |
| M18x1,5x19,7       | 942286                  |           |                         |
| M18x18,5           | 943674                  |           |                         |

## Låsmutter 8 M-gänga zib

Elförzinkade zink-järn, svartkromaterad

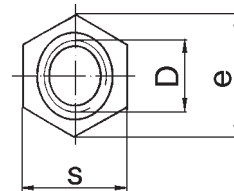
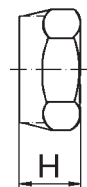
Helmetallisk

## Lock nuts 8 M-thread zib

Electro-zincplated zinc-iron, black chromated

All metal type

STD drawing 1052149



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x6               | 946035                  |           |                         |
| M10x10             | 971083                  |           |                         |
| M12x12             | 971084                  |           |                         |
| M14x14,1           | 971085                  |           |                         |
| M16x16,4           | 945884                  |           |                         |



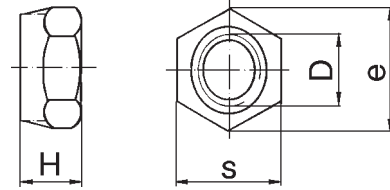
**Låsmutter 8 MF-gänga zib**  
**Elförzinkade zink-järn, svartkromaterad**

Helmetallisk

**Lock nuts 8 MF-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

All metal type

STD drawing 1052151



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x1x8,5           | 946344                  |           |                         |
| M12x1,25x12        | 946109                  |           |                         |
| M14x1,5x14         | 945542                  |           |                         |
| M16x1,5x16         | 945988                  |           |                         |

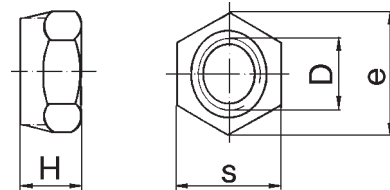
**Låsmutter 8 MF-gänga zib**  
**Elförzinkade zink-järn, svartkromaterad**

Helmetallisk, speciella nyckelvidder

**Lock nuts 8 MF-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

All metal type, special widths across flats

STD drawing 1052587



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M10x1x10           | 946345                  |           |                         |

## Låsmutter 8 MF-gänga fos

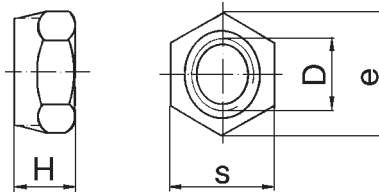
### Fosfaterade

Helmetallisk, speciella nyckelvidder och dimensioner

## Lock nuts 8 MF-thread fos

### Phosphated

All metal type, special widths across flats and dimensions



STD drawing 1053331

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M20x1,5x13,4       | 981586                  |           |                         |

## Låsmutter 10 M-gänga fos

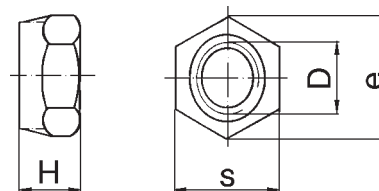
### Fosfaterade

Helmetallisk

## Lock nuts 10 M-thread fos

### Phosphated

All metal type



STD drawing 1052556

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x6               | 948569                  |           |                         |
| M8x8               | 948570                  |           |                         |
| M10x10             | 971086                  |           |                         |
| M14x14,1           | 971088                  |           |                         |

## Låsmutter 10 M-gänga fos

### Fosfaterade

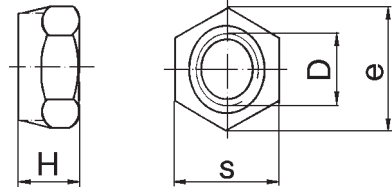
Helmetallisk, speciella nyckelvidder och dimensioner

## Lock nuts 10 M-thread fos

### Phosphated

All metal type, special widths across flats and dimensions

STD drawing 1052588



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M18x16,2           | 948834                  |           |                         |
| M20x18             | 948835                  |           |                         |
| M24x21,6           | 948836                  |           |                         |

## Låsmutter 10 MF-gänga fos

### Fosfaterade

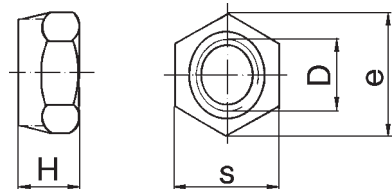
Helmetallisk

## Lock nuts 10 MF-thread fos

### Phosphated

All metal type

STD drawing 1054199, 1054086 <sup>1)</sup>



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M10x1x10           | 946350                  | M18x1,5x16,2       | 947140                  |
| M12x1,25x10        | 963923 <sup>1)</sup>    | M20x1,5x18         | 948332                  |
| M14x1,5x14         | 946008 <sup>1)</sup>    | M22x1,5x20         | 948971                  |
| M16x1,5x14,4       | 946352 <sup>1)</sup>    |                    |                         |

## U6M 8 UNC-gänga

Elförzinkade zink-järn, svartkromaterade

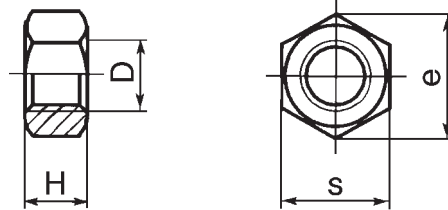
Grov stigning

## U6M 8 UNC-thread

Electro-zincplated zinc-iron, black chromated

Coarse pitch

STD drawing 1053635



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| NR6UNCx2,7         | 940119                  | 3/8UNCx8,3         | 955827                  |
| NR8UNCx3,1         | 940179                  | 7/16UNCx9,5        | 940157                  |
| NR10UNCx3,1        | 940092                  | 1/2UNCx11,1        | 940176                  |
| NR12UNCx3,9        | 940145                  | 9/16UNCx12,3       | 955828                  |
| 1/4UNCx5,6         | 955825                  | 5/8UNCx13,9        | 955829                  |
| 5/16UNCx6,7        | 955826                  | 3/4UNCx16,3        | 955830                  |

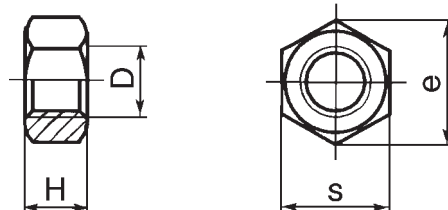
## U6M 10 UNC-gänga

Obehandlad

## U6M 10 UNC-thread

Untreated

STD drawing 1053640



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3/8UNCx8,3         | 961122                  |           |                         |
| 5/8UNCx13,9        | 961126                  |           |                         |

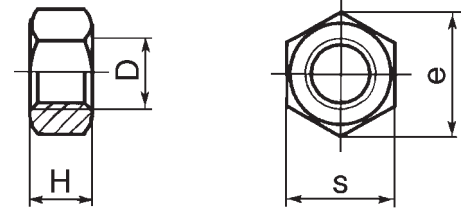
**U6M 8 UNF-gänga zib**

Elförzinkade zink-järn, svartkromaterade

**U6M 8 UNF-thread zib**

Electro-zincplated zinc-iron, black chromated

STD drawing 1053407



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| NR10UNFx3,1        | 955844                  | 1/2UNFx11,1        | 955850                  |
| 1/4UNFx5,6         | 955846                  | 9/16UNFx12,3       | 955851                  |
| 5/16UNFx6,7        | 955847                  | 5/8UNFx13,9        | 955852                  |
| 3/8UNFx8,3         | 955848                  | 3/4UNFx16,3        | 955853                  |
| 7/16UNFx9,5        | 955849                  |                    |                         |

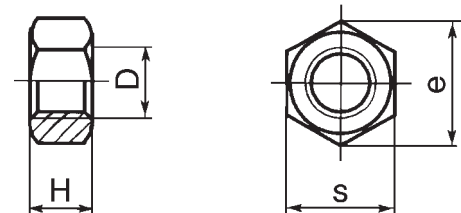
**U6M 8 UNF-gänga zib**

Elförzinkade

**U6M 8 UNF-thread zib**

Electro-zincplated

STD drawing 1053641



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1/4UNFx4           | 955856                  | 1/2UNFx7,9         | 940154                  |
| 5/16UNFx4,8        | 955857                  | 5/8UNFx9,5         | 940152                  |
| 3/8UNFx5,5         | 955858                  | 3/4UNFx10,7        | 955860                  |
| 7/16UNFx6,4        | 940153                  |                    |                         |

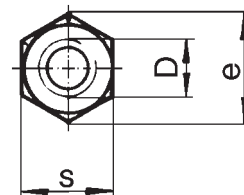
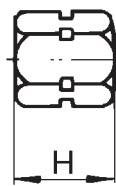
**UH6M 8 UNF-gänga**

Fosfaterade

**UH6M 8 UNF-thread**

Phosphated

STD 17142,36

**Dimension  
D x H****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

3/4UNFx20

192413

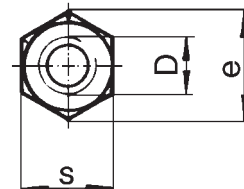
**UL6M 8 UNF-gänga**

Stål

**UL6M 8 UNF-thread**

Steel

STD drawing 940175

**Dimension  
D x H****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

3/8UNFx5,8

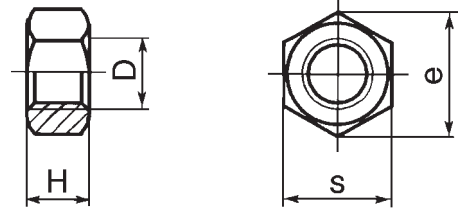
940175

**U6M 8 UNF-gänga****Obehandlad**

Anoljade

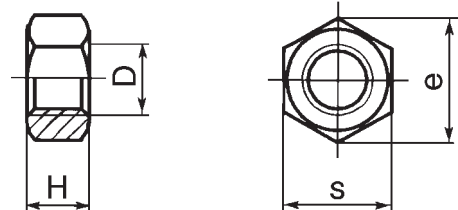
**U6M 8 UNF-thread****Untreated**

Oiled

**STD drawing 1054085****Dimension  
D x H****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

5/16UNFx6,7

921781

**M6M 4 M-gänga zib****Elförzinkade****M6M 4 M-thread zib****Electro-zincplated****STD 17142,13****Dimension  
D x H****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

M10x5

973267

M10x37

969990

**M6M 5 M-gänga zib**

Elförzinkade zink-järn, svartkromaterade

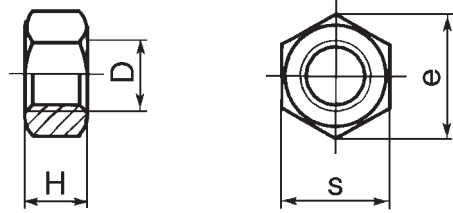
Låga

**M6M 5 M-thread zib**

Electro-zincplated zinc-iron, black chromated

Thin

STD drawing 1052607

**Dimension  
D x H****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

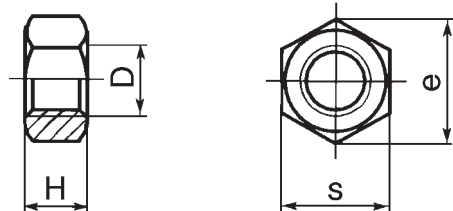
|        |        |
|--------|--------|
| M10x5  | 971080 |
| M12x6  | 971081 |
| M14x7  | 971082 |
| M16x8  | 955793 |
| M20x10 | 955794 |
| M24x12 | 955795 |

**M6M 5 M-gänga zib**

Elförzinkade, gulkromaterade

**M6M 5 M-thread zib**

Electro-zincplated, yellow chromated

STD drawing 1054192, 1057703 <sup>1)</sup>**Dimension  
D x H****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

|               |                      |
|---------------|----------------------|
| M10x1x6,15    | 940140               |
| M10x1x6,15    | 946911               |
| M12x1,75x8,18 | 955792 <sup>1)</sup> |
| M14x1,5x7     | 973268               |



**M6M 6 MF-gänga zib**

Elförzinkade zink-järn, svartkromaterade

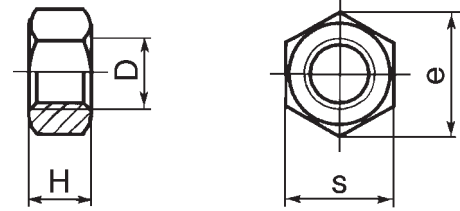
Låga

**M6M 6 MF-thread zib**

Electro-zincplated zinc-iron, black chromated

Thin

STD drawing 1054102



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x1,25x8         | 955818                  |           |                         |
| M20x1,5x12         | 955823                  |           |                         |

**U6M 4 UNC-gänga**

Elförzinkade

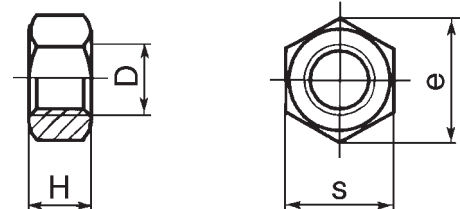
Låga

**U6M 4 UNC-thread**

Electro-zincplated

Thin

STD drawing 1053638

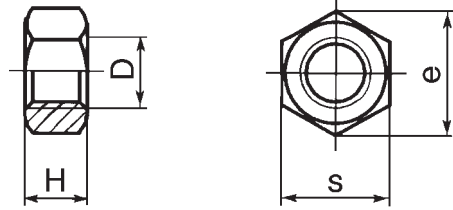


| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 5/16UNCx4,8        | 955834                  |           |                         |
| 3/8UNCx5,6         | 955835                  |           |                         |
| 1/2UNCx7,9         | 940118                  |           |                         |
| 5/8UNCx9,5         | 955838                  |           |                         |
| 3/4UNCx10,7        | 955839                  |           |                         |

**M6M HB 175-300 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**

**M6M HB 175-300 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

STD drawing 1052091



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x5               | 947941                  |           |                         |
| M18x1,5x11,215     | 955822                  |           |                         |
| M20x1x6,15         | 947363                  |           |                         |
| M20x1,5x8,18       | 948371                  |           |                         |

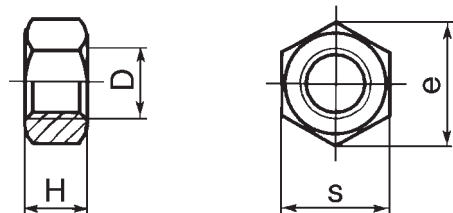
**M6M HB 175-300 M-gänga**  
**Obehandlade**

Anoljade

**M6M HB 175-300 M-thread**  
**Untreated**

Oiled

STD drawing 1054193



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M22x1,5x10,18      | 19656                   |           |                         |
| M30x1,5x10,18      | 10761                   |           |                         |
| M30x1,5x15,215     | 948532                  |           |                         |

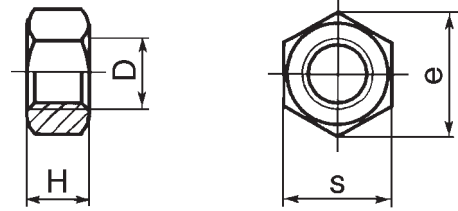
**R-M6M M-gänga A2-80**

Rostfri

**R-M6M M-thread A2-80**

Stainless

STD drawing 1053336



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M6x5,2             | 940197                  |           |                         |
| M8x6,8             | 946330                  |           |                         |

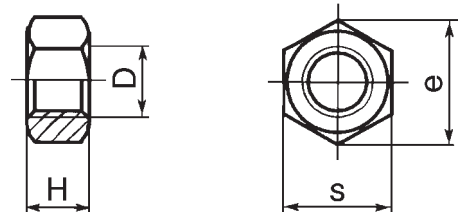
**R-M6M M-gänga A2-70**

Rostfri

**R-M6M M-thread A2-70**

Stainless

STD drawing 1057704



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M12x1x4,15         | 947842                  |           |                         |

## R-U6M UNC-gänga A2

Rostfri

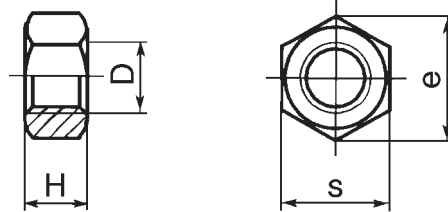
Grov stigning

## R-U6M UNC-thread A2

Stainless

Coarse pitch

STD drawing 1057705



**Dimension**  
**D x H**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

5/16UNCx6,7  
3/8UNCx8,3

940122  
191894

## M6M M-gänga

Mässing

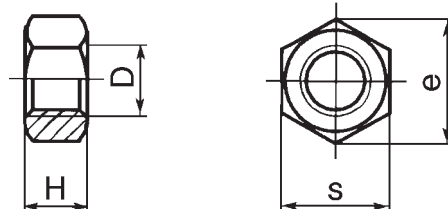
Obehandlad

## M6M M-thread

Brass

Untreated

STD drawing 1054194



**Dimension**  
**D x H**

**Artikel nr.**  
**Part No.**

**Dimension**  
**D x H**

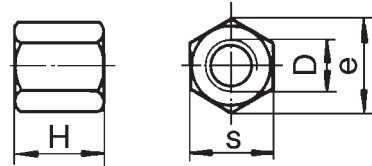
**Artikel nr.**  
**Part No.**

M6x3,125  
M8x3,95  
M8x4,75  
M8x8,18

966645  
966647  
966648  
17624

M10x15,215  
M12x18,215  
M12x1x3,65

10496  
968128  
942914

**UH6M UNC-gänga****Mässing****UH6M UNC-thread****Brass****STD 17142,35**

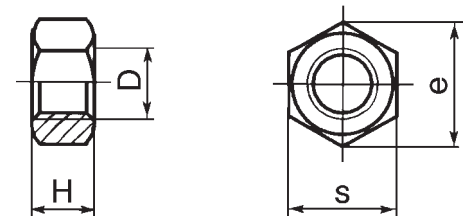
| <b>Dimension<br/>D × H</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|------------------|---------------------------------|
| 3/8UNCx14                  | 150177                          |                  |                                 |
| 1/2UNCx19                  | 191987                          |                  |                                 |

**U6M UN-gänga zib****Elförzinkade, gulkromaterade**

För rörkopplingar

**U6M UN-thread zib****Electro-zincplated, yellow chromated**

For tube fittings

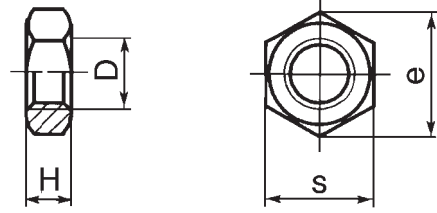
**STD drawing 1053205**

| <b>Dimension<br/>D × H</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension<br/>D × H</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|----------------------------|---------------------------------|
| 7/16-24UNSx5               | 192272                          | 13/16-18UNSx10             | 944106                          |
| 17/32-24UNSx8              | 338888                          | 1-16UNx10                  | 192185                          |
| 11/16-20UNx6               | 350039                          |                            |                                 |

**UL6M UN-gänga**  
**Stål**

**UL6M UN-thread**  
**Steel**

STD drawing 1053504



**Dimension**  
**D × H**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

1 3/4-12UNx15

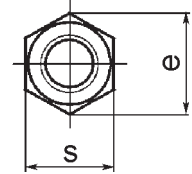
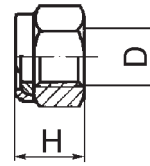
943805

**Låsmutter UNC-gänga**  
**Elförzinkad, gulkromaterad**

Nylonring, låga

**Lock nuts UNC-thread**  
**Electro-zincplated, yellow chromated**

Nylon insert, thin



STD drawing 1054112, STD 7144,3 <sup>1)</sup>

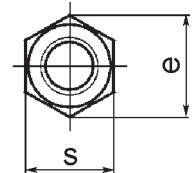
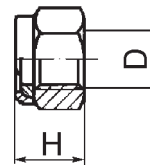
| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| NR10UNCx6,8        | 951672 <sup>1)</sup>    | 1/2UNCx15,8        | 950356 <sup>1)</sup>    |
| 1/4UNCx8,9         | 950352 <sup>1)</sup>    | 9/16UNCx18,3       | 950357 <sup>1)</sup>    |
| 5/16UNCx11,6       | 950353 <sup>1)</sup>    | 5/8UNCx15,1        | 950368                  |
| 3/8UNCx12,8        | 950354 <sup>1)</sup>    | 3/4UNCx22,3        | 950359 <sup>1)</sup>    |
| 7/16UNCx14,3       | 950355 <sup>1)</sup>    | 1UNCx28,1          | 950361 <sup>1)</sup>    |
| 1/2UNCx12,6        | 950366                  |                    |                         |

**Låsmutter 8 UNF-gänga zib**  
**Elförzinkad zink-järn, svartkromaterad**

Nylonring

**Lock nuts 8 UNF-thread zib**  
**Electro-zincplated zinc-iron, black chromated**

Nylon insert



STD drawing 1052557, STD 7144,41 <sup>1)</sup>

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1/4UNFx7,7         | 950382 <sup>1)</sup>    | 1/2UNFx12,6        | 950386 <sup>1)</sup>    |
| 1/4UNFx8,9         | 950372                  | 1/2UNFx15,8        | 950376                  |
| 5/16UNFx10,0       | 950383 <sup>1)</sup>    | 9/16UNFx18,3       | 950377                  |
| 5/16UNFx11,6       | 950373                  | 5/8UNFx15,1        | 950388 <sup>1)</sup>    |
| 3/8UNFx10,4        | 950384 <sup>1)</sup>    | 5/8UNFx19,4        | 950378                  |
| 3/8UNFx12,8        | 950374                  | 3/4UNFx22,3        | 950379                  |
| 7/16UNFx14,3       | 950375                  |                    |                         |

## Låsmutter 8 UNC-gänga zib

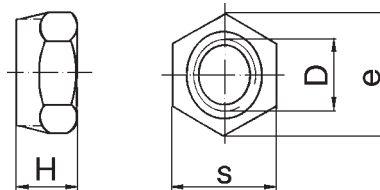
Elförzinkade, gulkromaterad

Helmetallisk

## Lock nuts 8 UNC-thread zib

Electro-zincplated, yellow chromated

All metal type



STD drawing 1054111

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1/4UNCx6,6         | 944579                  | 7/16UNCx11,1       | 949499                  |
| 5/16UNCx8          | 945467                  | 1/2UNCx13          | 946637                  |
| 3/8UNCx9,6         | 946420                  | 5/8UNCx16,4        | 949399                  |

## Låsmutter 10 UNF-gänga fos

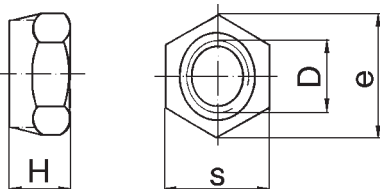
Fosfaterade

Helmetallisk

## Lock nuts 10 UNF-thread fos

Phosphated

All metal type



STD drawing 1054113

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 5/16UNFx8          | 946149                  | 1/2UNFx13          | 946007                  |
| 3/8UNFx9,6         | 945676                  | 9/16UNFx14,3       | 946756                  |
| 7/16UNFx11,1       | 945989                  |                    |                         |



**Låsmutter, kontramutter zib**  
**Elförzinkade zink-järn, svartkromaterade**

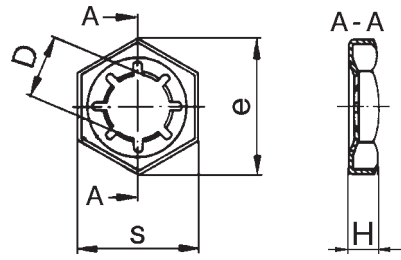
Fjäderstål

**Lock nuts, jam nuts zib**

**Electro-zincplated zinc-iron, black  
chromated**

Spring steel

**STD drawing 1052362**



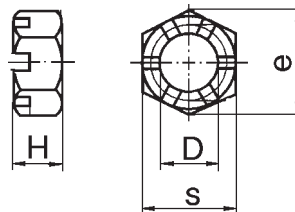
| <b>Dimension<br/>D x H</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|------------------|---------------------------------|
| M20x6,5                    | 1582618                         |                  |                                 |
| M24x2x7,5                  | 947179                          |                  |                                 |

**MKM 4 MF-gänga zib**  
**Elförzinkade, gulkromaterade**

Speciella dimensioner

**MKM 4 MF-thread zib**  
**Electro-zincplated, yellow chromated**

Special dimensions



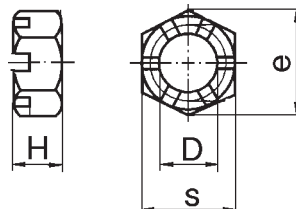
**STD drawing 1058179**

| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M33x2x26           | 947117                  |           |                         |

**MKM 4 MF-gänga**  
**Obehandlad**

**MKM 4 MF-thread**  
**Untreated**

**STD 17143,105, STD drawing 191055 <sup>1)</sup>**



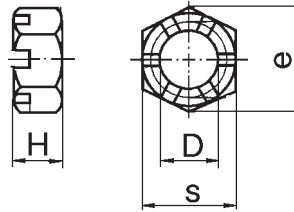
| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M14x1,5x12         | 191055 <sup>1)</sup>    |           |                         |
| M16x1,5x14         | 10504                   |           |                         |

**MKM MF-gänga zib**  
**Elförzinkade, gulkromaterade**

Speciella dimensioner

**MKM MF-thread zib**  
**Electro-zincplated, yellow chromated**

Special dimensions



STD drawing 1054198

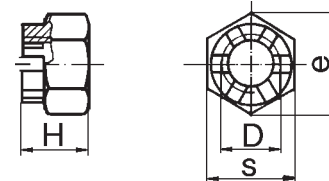
| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M20x1,5x18         | 10506 <sup>1)</sup>     |           |                         |
| M24x1,5x15         | 191029 <sup>2)</sup>    |           |                         |
| M24x1,5x22         | 10507 <sup>1)</sup>     |           |                         |
| M30x1,5x24         | 969148 <sup>3)</sup>    |           |                         |

1) Hållfasthetsklass/Property class 6  
 2) Hållfasthetsklass/Property class 150 kN  
 3) Hållfasthetsklass/Property class 4

**MKM MF-gänga**  
**Obehandlad**

**MKM MF-thread**  
**Untreated**

STD drawing 1058016

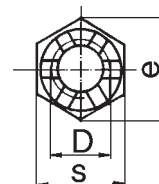


| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M27x1,5x22         | 948890 <sup>1)</sup>    |           |                         |
| M30x1,5x28         | 966873 <sup>2)</sup>    |           |                         |

1) Hållfasthetsklass/Property class 6  
 2) Hållfasthetsklass/Property class 4

**MHKM 8 MF-gänga zib**  
Elförzinkade

**MHKM 8 MF-thread zib**  
Electro-zincplated



STD 7143,16

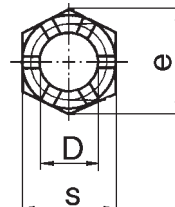
| Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

|        |        |
|--------|--------|
| M12x15 | 961294 |
|--------|--------|

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**UKM 6 UNF-gänga**  
Elförzinkade

**UKM 6 UNF-thread**  
Electro-zincplated



STD 17143,245

| Dimension<br>D x H | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

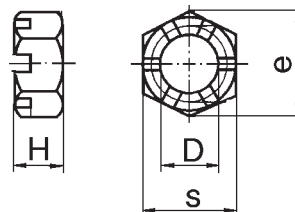
|             |        |
|-------------|--------|
| 3/4UNFx16,3 | 955887 |
| 5/8UNFx13,9 | 955886 |

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**UKM 6 UNF-gänga**  
**Obehandlad**

**UKM 6 UNF-thread**  
**Untreated**

STD 17143,135, 17143,24 <sup>1)</sup>

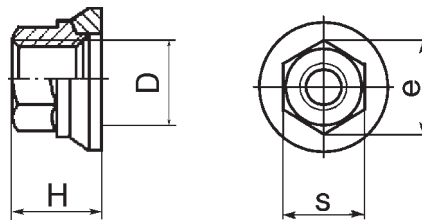


| <b>Dimension</b><br><b>D x H</b> | <b>Artikel nr.</b><br><b>Part No.</b> | <b>Dimension</b> | <b>Artikel nr.</b><br><b>Part No.</b> |
|----------------------------------|---------------------------------------|------------------|---------------------------------------|
| 3/4-12x19<br>3/8UNFx8,3          | 153020<br>951774 <sup>1)</sup>        |                  |                                       |

**Hjulmutter 10 MF-gänga fos  
Fosfaterade**

**Wheel nut 10 MF-thread fos  
Phosphated**

STD drawing 1058128

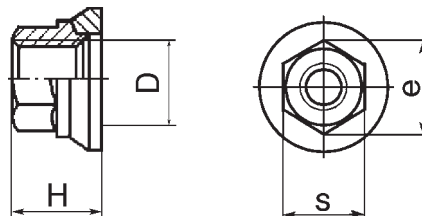


| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M18x25             | 947970                  |           |                         |
| M20x27             | 947971                  |           |                         |
| M22x27             | 947972                  |           |                         |

**Hjulmutter 10 MF-gänga  
Lackerade metallgrå**

**Wheel nut 10 MF-thread  
Painted metallic grey**

STD drawing 1054060

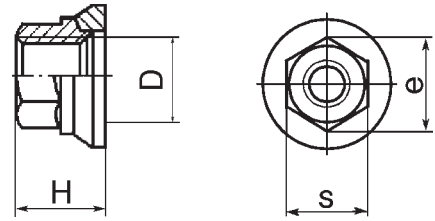


| Dimension<br>D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M20x27             | 982270                  |           |                         |

**Hjulmutter UNF-gänga fos  
Fosfaterade**

**Wheel nut UNF-thread fos  
Phosphated**

STD drawing 1052697

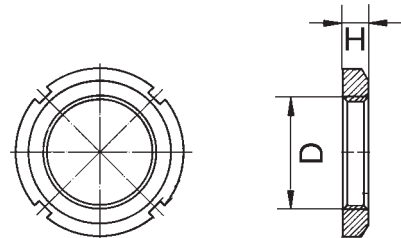


| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 7/8UNFx34          | 943491                  |           |                         |

**Rundmutter  
Med axielle spår**

**Round nuts  
With axial grooves**

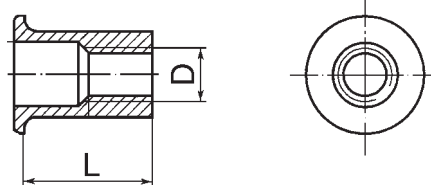
STD 17146,105



| Dimension<br>D x H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M20x1x6            | 968026                  |           |                         |

**Nitmutter 5 M-gänga**  
**Elförzinkade, gulkromaterade**

**Rivet nuts 5 M-thread**  
**Electro-zincplated, yellow chromated**



STD drawing 1052565, 1052345 <sup>1)</sup>

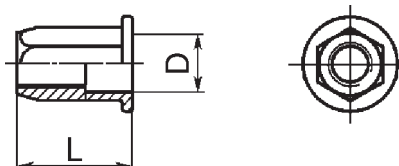
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| M5x11              | 947694                  | M8x16              | 979132 <sup>1)</sup>    |
| M6x13,5            | 949377                  | M8x17,5            | 947607                  |
| M6x14              | 979130 <sup>1)</sup>    | M8x18,5            | 979133 <sup>1)</sup>    |
| M8x14,5            | 944947                  | M10x16             | 973920                  |

**Nitmutter 5 M-gänga**  
**Elförzinkade, gulkromaterade**

Sexkantiga, Fasade

**Rivet nuts 5 M-thread**  
**Electro-zincplated, yellow chromated**

Hexagonal, Chamfered



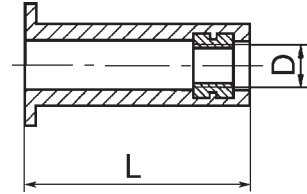
STD drawing 1052566

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M8x16,5            | 979151                  |           |                         |



**Expandermutter M-gänga**  
**Kloroprengummi/Mässing**

**Expanding nut M-thread**  
**Chloroprene rubber/Brass**

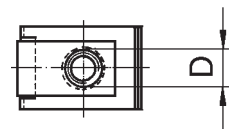


STD drawing 1052599

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M5x24,5            | 981917                  |           |                         |
| M5x26,7            | 980593                  |           |                         |
| M6x21              | 930760                  |           |                         |
| M6x26,7            | 930761                  |           |                         |

**Fjädermutter M-gänga**  
**Stål, ytbehandling Y 900**

**Spring nuts M-thread**  
**Steel, surface coating Y 900**



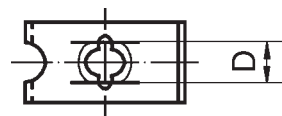
STD drawing 1052370

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| M5x2               | 949937                  |           |                         |
| M6x2               | 949921                  |           |                         |
| M8x2               | 949867                  |           |                         |

**Fjädermutter ST-gänga**  
**Fjäderstål, ytbehandling Y 900**

**Spring nuts ST-thread**  
**Spring steel, surface coating Y 900**

STD drawing 1052348, 1053449 <sup>1)</sup>

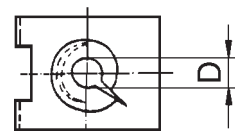


| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension<br>D x T | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| ST3,5x1            | 191276                  | ST4,8x1            | 946214 <sup>1)</sup>    |
| ST4,2x1            | 192557                  | ST4,8x6,2          | 946331 <sup>1)</sup>    |
| ST4,2x1,5          | 948571                  | ST4,8x3            | 945626                  |
| ST4,2x2,5          | 942866                  | ST6,3x2,5          | 948707                  |
| ST4,8x1            | 191391                  | 1/4x2,5            | 941975 <sup>1)</sup>    |
| ST4,8x1            | 943501 <sup>1)</sup>    |                    |                         |

**Fjädermutter ST/ACME-gänga**  
**Fjäderstål, ytbehandling Y 900**

**Spring nuts ST/ACME-thread**  
**Spring steel, surface coating Y 900**

STD drawing 1053209



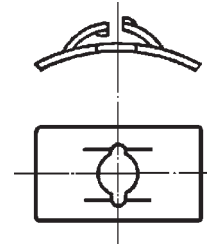
| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 1/4ACMEx1          | 941962                  |           |                         |
| 1/4ACMEx2          | 120408                  |           |                         |

**Fjädermutter**

Fjäderstål, ytbehandling Y 900

**Spring nuts**

Spring steel, surface coating Y 900



STD drawing 1053446

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| ST 3,5         | 191246                  |           |                         |

**Fjädermutter**

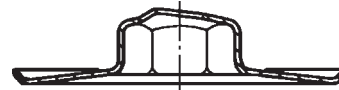
Fjäderstål, ytbehandling Y 900

Clipsgänga

**Spring nuts**

Spring steel, surface coating Y 900

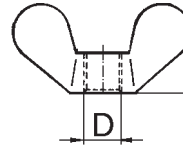
Clip thread



STD drawing 1053244

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| T5             | 977276                  |           |                         |

**Vingmutter 6 M-gänga zib**  
**Elförzinkade zink-järn, svartkromaterade**



**Wing nuts 6 M-thread zib**  
**Electro-zincplated zinc-iron, black chromated**



STD drawing 1052928

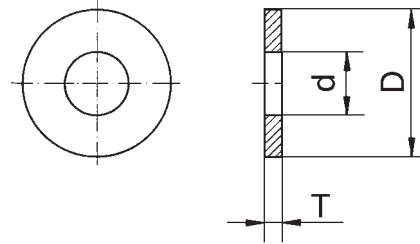
| <b>Dimension<br/>D</b> | <b>Artikel nr.<br/>Part No.</b> | <b>Dimension</b> | <b>Artikel nr.<br/>Part No.</b> |
|------------------------|---------------------------------|------------------|---------------------------------|
| M6                     | 191491                          |                  |                                 |
| M8                     | 192354                          |                  |                                 |
| M10                    | 192591                          |                  |                                 |

**Bricka 8.8 zib**

Elförzinkade zink-järn, svartkromaterade

**Washer 8.8 zib**

Electro-zincplated zinc-iron, black chromated



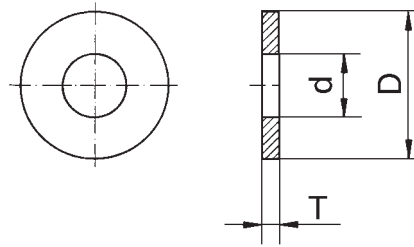
STD drawing 1052132, 1052205 <sup>1)</sup>, 1052700 <sup>2)</sup>, 1052701 <sup>3)</sup>,  
1052723 <sup>4)</sup>, 1053553 <sup>5)</sup>, 1052875 <sup>6)</sup>

| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 3,2x6x0,5              | 955890 <sup>2)</sup>    | 12x60x4                | 190621 <sup>4)</sup>    |
| 3,2x10x1               | 960135 <sup>3)</sup>    | 12,1x38x6              | 949505 <sup>4)</sup>    |
| 3,7x12x1               | 960136 <sup>3)</sup>    | 12,5x20x2,5            | 18634                   |
| 4,3x8x0,8              | 955891 <sup>2)</sup>    | 12,8x28x1              | 120648 <sup>4)</sup>    |
| 4,3x14x1               | 960137 <sup>3)</sup>    | 13x23x3                | 18725 <sup>4)</sup>     |
| 4,8x10x0,8             | 960146 <sup>2)</sup>    | 13x24x2                | 955897 <sup>2)</sup>    |
| 5x22x1,5               | 947853 <sup>4)</sup>    | 13x26x3                | 969274 <sup>5)</sup>    |
| 5,3x10x1               | 940090 <sup>2)</sup>    | 13x37x6                | 969203 <sup>5)</sup>    |
| 5,3x16x1,5             | 960138 <sup>3)</sup>    | 13x40x5                | 947355                  |
| 6,4x12x1,5             | 955892 <sup>2)</sup>    | 13x46x4                | 11958 <sup>4)</sup>     |
| 6,4x18x2               | 976943 <sup>1)</sup>    | 13x50x3                | 945673                  |
| 6,4x40x1,5             | 949817                  | 13x70x4                | 947356 <sup>4)</sup>    |
| 6,5x14x3               | 948315 <sup>4)</sup>    | 13,5x24x2              | 955898 <sup>2)</sup>    |
| 6,5x22x2               | 192041 <sup>4)</sup>    | 13,5x25x5              | 944449 <sup>4)</sup>    |
| 6,7x14x1,5             | 955893 <sup>2)</sup>    | 13,5x34x3              | 960145 <sup>3)</sup>    |
| 7x28x2                 | 190788 <sup>4)</sup>    | 13,5x36x3              | 192477                  |
| 7,4x30x2               | 947426                  | <del>13,8x26x1,5</del> | <del>942357</del>       |
| 8,2x32x2,5             | 948880 <sup>4)</sup>    | 14,1x45x3              | 981420                  |
| 8,4x16x1,5             | 955894 <sup>2)</sup>    | 14,5x38x3              | 18702 <sup>4)</sup>     |
| 8,4x16x2,5             | 120265                  | 15x26x2                | 955899 <sup>2)</sup>    |
| 8,4x20x2,5             | 191172                  | 15x30x2                | 942934                  |
| 8,4x22x2               | 976944 <sup>1)</sup>    | 15x32x4                | 966838                  |
| 8,4x24x4               | 969201 <sup>5)</sup>    | 15x38x6                | 979232 <sup>6)</sup>    |
| 8,4x36,5x5             | 191130                  | 15,2x19,3x0,5          | 949365                  |
| 8,4x42,5x3             | 940395                  | 16x25x2                | 190543                  |
| 8,5x16x4               | 11978 <sup>4)</sup>     | 16x30x1,5              | 18603                   |
| 8,5x22x5               | 191169 <sup>4)</sup>    | 16,5x38x6              | 29869 <sup>4)</sup>     |
| 8,5x28x2               | 192341 <sup>4)</sup>    | 17x30x3                | 955900 <sup>2)</sup>    |
| 10x15x1,5              | 942598                  | 17x40x3                | 191940 <sup>4)</sup>    |
| 10x18x3                | 941744                  | 17x57x4                | 945544 <sup>4)</sup>    |
| 10x50x4                | 948813                  | 18,5x50x5              | 948556 <sup>4)</sup>    |
| 10,5x18x2              | 955895                  | 19x34x3                | 955901 <sup>2)</sup>    |
| 10,5x20x3              | 190509 <sup>4)</sup>    | 19x57x4                | 120147 <sup>4)</sup>    |
| 10,5x22x2              | 976945 <sup>1)</sup>    | 20,5x38x5              | 120224 <sup>4)</sup>    |
| 10,5x22x4              | 949523                  | 21x30,5x2              | 120173                  |
| 10,5x25x4              | 11975 <sup>4)</sup>     | 21x36x3                | 955903 <sup>2)</sup>    |
| 10,5x26x2              | 960143 <sup>3)</sup>    | 21x45x3                | 949394                  |
| 10,5x30x2              | 948823 <sup>4)</sup>    | 21x57x4                | 968020                  |
| 10,5x34x3              | 980479                  | 23x40x3                | 955904 <sup>2)</sup>    |
| 10,5x38x3              | 948087 <sup>4)</sup>    | 25x45x4                | 955905 <sup>2)</sup>    |
| 10,5x42x4              | 947541                  | 26x45x4                | 955906 <sup>2)</sup>    |
| 10,5x42x6              | 968003                  | 27x57x5                | 945872 <sup>4)</sup>    |
| 11,4x32x2              | 942356                  | 30x52x4                | 955907 <sup>2)</sup>    |
| 11,4x32x4              | 944633                  | 31x58x4                | 960150 <sup>2)</sup>    |
| 12x22x5                | 948093                  | 53x92x6                | 955914 <sup>2)</sup>    |
| 12x30x3                | 960144 <sup>3)</sup>    |                        |                         |
| 12x40x5                | 120065 <sup>4)</sup>    |                        |                         |

**Bricka**  
Elförzinkade, gulkromaterade

**Washer**  
Electro-zincplated, yellow chromated

STD drawing 1054167, 1610554 <sup>1)</sup>, 948576 <sup>2)</sup>, 949464 <sup>3)</sup>,  
1594095 <sup>4)</sup>, 1587574 <sup>5)</sup>, 1586388 <sup>6)</sup>, 190570 <sup>7)</sup>, 946255 <sup>8)</sup>



| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension<br>d × D × T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 8,4x16x3               | 961169                  | 14,5x22x6              | 1587574 <sup>5)</sup>   |
| 10x18x4                | 961170                  | 15x30x5,5              | 1610554 <sup>1)</sup>   |
| 10,5x22x4              | 961171                  | 17x36x4                | 948576 <sup>2)</sup>    |
| 10,5x28x3              | 192289 <sup>7)</sup>    | 18,5x28x6              | 1586388 <sup>6)</sup>   |
| 12,2x20x1              | 946255 <sup>8)</sup>    | 21x40x6                | 949464 <sup>3)</sup>    |
| 12,5x50x4              | 1594095 <sup>4)</sup>   | 20x36x4                | 948577 <sup>2)</sup>    |

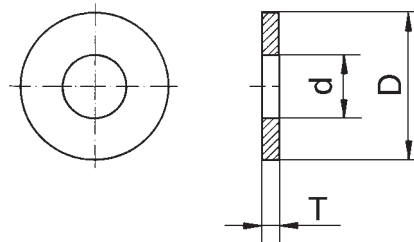
**Bricka**  
Förzinkad

Stål

**Washer**  
Zincplated

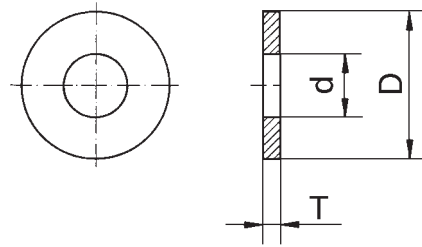
Steel

STD drawing 1581381



| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 20,5x34x2,5            | 1581381                 |           |                         |

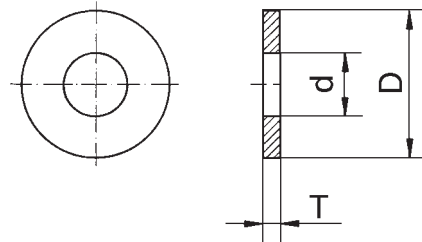
**Bricka fos**  
**Fosfaterade**  
**Washer fos**  
**Phosphated**



STD drawing 1053072, 947395 <sup>1)</sup>, 192123 <sup>2)</sup>, 1058220 <sup>3)</sup>,  
 943647 <sup>4)</sup>, 8151419 <sup>5)</sup>

| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 7,4x16x2               | 947395 <sup>1)</sup>    | 21x50x4                | 930851                  |
| 13x24x4                | 8151419 <sup>5)</sup>   | 25x45x4                | 946920 <sup>3)</sup>    |
| 17x30x6                | 930846                  | 25,5x39x5              | 943647 <sup>4)</sup>    |
| 20x32x3                | 192123 <sup>2)</sup>    |                        |                         |

**Bricka**  
**Stål v-1159-z275**  
**Washer**  
**Steel v-1159-z275**

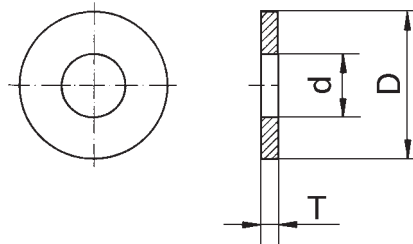


STD drawing 1591500

| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 12,5x30x1,5            | 1591500                 |           |                         |

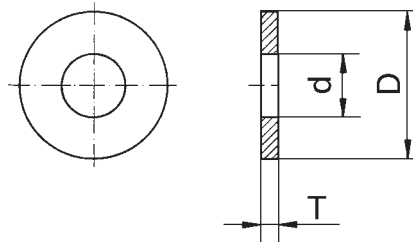
**Bricka****Rostfritt stål****Washer****Stainless steel**

STD drawing 1053554

**Dimension  
d × D × T****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

6,7x14x1,5

940191

**Bricka****Mässing****Washer****Brass**STD drawing 18670, 944472 <sup>1)</sup>, 946700 <sup>2)</sup>**Dimension  
d × D × T****Artikel nr.  
Part No.****Dimension****Artikel nr.  
Part No.**

10,5x22x0,8

18670

13x18,3x0,5

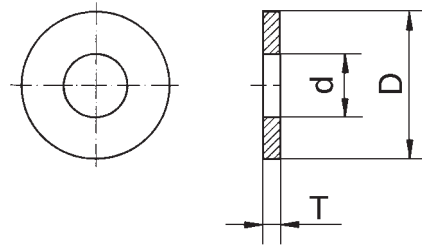
944472 <sup>1)</sup>

21,8x30,5x2

946701 <sup>2)</sup>



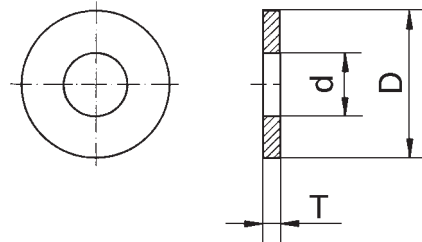
**Bricka**  
**Lackerade**  
**Washer**  
**Painted**



STD drawing 1052464, 6853994 <sup>1)</sup>

| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 17x30x4                | 6853994 <sup>1)</sup>   |           |                         |
| 19x34x4                | 6853995 <sup>1)</sup>   |           |                         |
| 21x36x4                | 6853996 <sup>1)</sup>   |           |                         |
| 25x45x6                | 980525                  |           |                         |

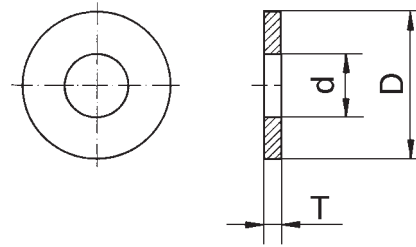
**Bricka**  
**Vävlaminat**  
**Washer**  
**Woven fabric laminate**



STD drawing 1054116

| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 4,3x10x1               | 962653                  |           |                         |
| 5,1x12x1               | 962654                  |           |                         |
| 8,1x18x1               | 962658                  |           |                         |
| 8,1x18x2               | 945244                  |           |                         |
| 10,1x24x1              | 962660                  |           |                         |
| 10,1x24x2              | 962679                  |           |                         |
| 20,3x40x2              | 962685                  |           |                         |

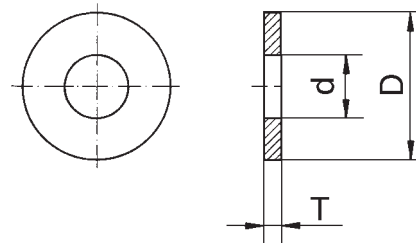
**Bricka  
Gummi  
Washer  
Rubber**



STD drawing 1053217, 1610218 <sup>1)</sup>

| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 3x8x1,5                | 949462                  |           |                         |
| 3,2x9,5x2              | 1610218 <sup>1)</sup>   |           |                         |
| 6x14x1,5               | 949102                  |           |                         |
| 6,1x17,5x2             | 977288                  |           |                         |
| 8,2x30x3               | 967961                  |           |                         |

**Bricka  
Plast  
Washer  
Plastic**

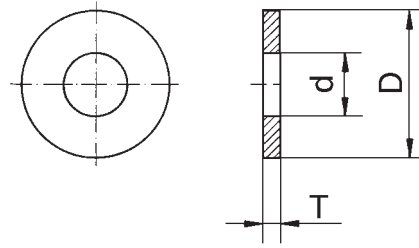


STD drawing 1053220

| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 8,4x16x1,5             | 947757                  |           |                         |

**Stödbricka****Seghårdad**

HRC 44-48

**Supporting ring****Hardened**

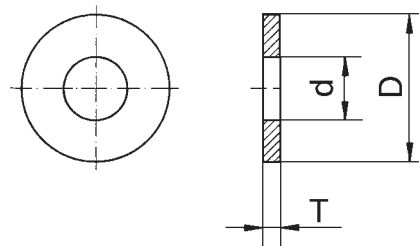
HRC 44-48

**STD 17153,501**

| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 42x52x2,5              | 943033                  | 60x75x2,7              | 942142                  |
| 44x56x3                | 942136                  | 60x75x2,8              | 942143                  |
| 44x56x2,7              | 942133                  | 60x75x2,9              | 942144                  |
| 44x56x2,8              | 942134                  | 60x75x3                | 942145                  |
| 44x56x2,9              | 942135                  | 65x85x2,6              | 942146                  |
| 50x62x3                | 942140                  | 65x85x2,8              | 942148                  |
| 55x68x3                | 943322                  | 65x85x2,9              | 942149                  |
| 60x75x2,6              | 942141                  | 65x85x3                | 942150                  |

**Stödbricka****Stål**

HB 200 MIN

**Supporting ring****Steel**

HB 200 MIN

**STD 17153,521**

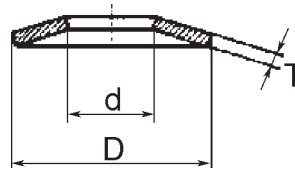
| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 90x109x1,3             | 943349                  | 110x129x1,3            | 943350                  |
| 90x109x1,5             | 942151                  | 110x129x1,7            | 942159                  |
| 90x109x1,9             | 942153                  | 110x129x1,9            | 942160                  |
| 90x109x2               | 942154                  | 110x129x2              | 942161                  |
| 90x109x2,1             | 942155                  | 110x129x2,3            | 942163                  |
| 90x109x2,5             | 942157                  | 110x129x2,5            | 942164                  |

## Tallriksfjäder

För dynamisk och statisk belastning

## Disc Springs

For dynamic and static loads



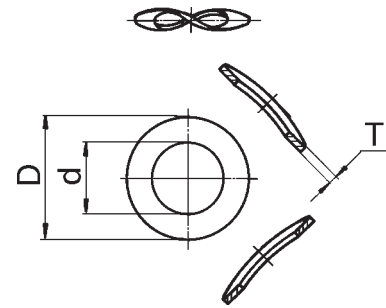
STD drawing 1053410, STD 17245,101 <sup>1)</sup>

| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension<br>d × D × T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 8,2x16x0,9             | 942574                  | 14,2x40x1,25           | 943819 <sup>1)</sup>    |
| 9,2x18x1               | 942385                  | 16,3x31,5x1,25         | 961386                  |
| 11,2x22,5x1,25         | 942180                  | 16,3x31,5x1,75         | 942844                  |
| 12,2x25x0,9            | 961384                  | 18,3x35,5x0,9          | 943409 <sup>1)</sup>    |
| 14,2x28x1              | 961385                  | 20,4x40x2,25           | 961414                  |
| 14,2x28x1,5            | 961411                  |                        |                         |

**Skevad fjäderbricka fzb**  
**Elförzinkade zink-järn, svartkromaterade**

**Wave spring washer fzb**  
**Electro-zincplated zinc-iron, black chromated**

STD drawing 1053013

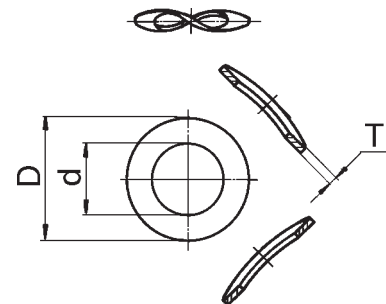


| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 4,3x9x0,5              | 941904                  | 13,5x24x1,2            | 940280                  |
| 5,3x11x0,5             | 941905                  | 15x28x1,6              | 941911                  |
| 6,7x12x0,5             | 941906                  | 17x30x1,6              | 941912                  |
| 8,4x15x0,8             | 941907                  | 19x34x1,6              | 941913                  |
| 10x18x1                | 942336                  | 21x36x1,6              | 941914                  |
| 10,5x21x1              | 941908                  | 25x44x1,8              | 941916                  |
| 11,5x21x1              | 941909                  | 27x50x2                | 941917                  |

**Skevad fjäderbricka**  
**Lackerad**

**Wave spring washer**  
**Painted**

STD drawing 1052129

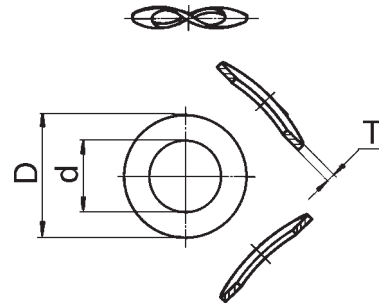


| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 21x36x1,6              | 980280                  |           |                         |

**Skevad fjäderbricka**  
Rostfritt stål

**Wave spring washer**  
Stainless steel

STD drawing 1052017



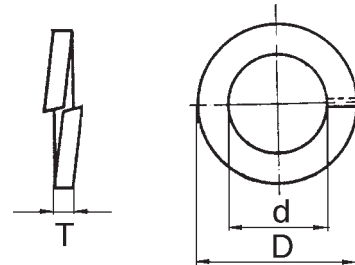
| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 6,4x12x0,5             | 979885                  |           |                         |
| 8,4x15x0,8             | 979886                  |           |                         |
| 13x24x1,2              | 982476                  |           |                         |

**Fjäderbricka fzb**  
Elförzinkade zink-järn, svartkromaterade

**Spring washer fzb**  
Electro-zincplated zinc-iron, black  
chromated

STD drawing 1052074

SMS 84



| Dimension<br>d × D × T | Artikel nr.<br>Part No. | Dimension<br>d × D × T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 4,1x7,1x0,9            | 955917                  | 12,2x20,2x2,5          | 955923                  |
| 5,1x8,7x1,2            | 955918                  | 13x21x2,5              | 955924                  |
| 6,1x11,1x1,6           | 955919                  | 14,5x23,5x3            | 955925                  |
| 6,5x11,5x1,6           | 955920                  | 16,2x26,2x3,5          | 955926                  |
| 8,2x14,2x2             | 955921                  | 18,2x28,2x3,5          | 955927                  |
| 9,7x16,7x2,2           | 940108                  | 20,2x32,2x4            | 955929                  |
| 10,2x17,2x2,2          | 955922                  |                        |                         |

# Karosseribricka

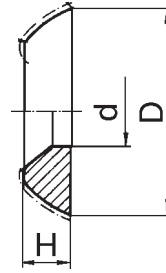
Mässing

Svarvad

# Body washer

Brass

Turned



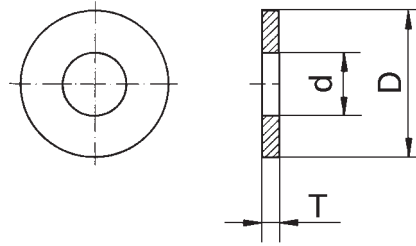
STD drawing 1054004

| Dimension<br>d × D × H | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 5,3x15x2,8             | 959058                  |           |                         |
| 6,4x18,5x4             | 959060                  |           |                         |

# Justerbleck

## Shims

STD drawing 1053447, 1053453 <sup>1)</sup>, 1053454 <sup>2)</sup>,  
1053727 <sup>3)</sup>, 3078100 <sup>4)</sup>

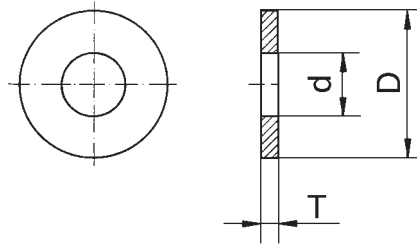


| Dimension<br>d x D x T  | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|-------------------------|-------------------------|------------------------|-------------------------|
| 12x20x0,3               | 945606 <sup>1)</sup>    | 84x99,8x1              | 62218 <sup>2)</sup>     |
| 19x26x0,3               | 946445 <sup>3)</sup>    | 90x120x0,1             | 192465                  |
| 19x26x0,5               | 946446 <sup>3)</sup>    | 90x120x0,35            | 192464                  |
| 19x26x0,8               | 968419 <sup>3)</sup>    | 90x120x1               | 192463                  |
| 19x26x0,9               | 968420 <sup>3)</sup>    | 95x109x0,1             | 120612                  |
| 19x26x1                 | 968421 <sup>3)</sup>    | 95x109x0,15            | 190835                  |
| 19x26x1,1               | 968422 <sup>3)</sup>    | 95x109x0,35            | 120613                  |
| 19x26x1,3               | 968423 <sup>3)</sup>    | 110x124x0,1            | 948592                  |
| 20,7x32x0,1             | 120663                  | 110x124x0,15           | 948593                  |
| 20,7x32x0,5             | 120048                  | 110x124x0,35           | 948594                  |
| 22,2x28x1               | 400722                  | 110x129x0,35           | 942088                  |
| 25x34x1,25              | 941831 <sup>1)</sup>    | 140x159x0,1            | 941291                  |
| 25,6x34x,01             | 120131                  | 140x159x0,15           | 948599                  |
| 25,6x34x0,35            | 120132                  | 140x159x0,35           | 941292                  |
| 25,6x34x1               | 120133                  | 140x159x0,5            | 941293                  |
| 26x41x1                 | 120050                  | 140x169x0,1            | 949825                  |
| 28,2x33x0,5             | 120162                  | 140x169x0,15           | 949826                  |
| 28,6x72,4x1             | 80506 <sup>2)</sup>     | 140x169x0,35           | 949827                  |
| 29x36,5x0,25            | 191837 <sup>1)</sup>    | 140x169x0,5            | 949828                  |
| 29x36,5x0,7             | 191836                  |                        |                         |
| 30,2x40x0,35            | 34614                   |                        |                         |
| <del>30,2x40x0,5</del>  | <del>947120</del>       |                        |                         |
| 35,2x43x0,1             | 84219                   |                        |                         |
| 35,2x43x0,35            | 84218                   |                        |                         |
| 38,1x50x0,1             | 1585983 <sup>4)</sup>   |                        |                         |
| 38,1x50x0,25            | 8150242 <sup>4)</sup>   |                        |                         |
| 38,1x50x0,35            | 1585984 <sup>4)</sup>   |                        |                         |
| 38,1x50x0,4             | 8150243 <sup>4)</sup>   |                        |                         |
| 38,1x50x1               | 1585985 <sup>4)</sup>   |                        |                         |
| 40,5x48x0,1             | 45545                   |                        |                         |
| 40,5x48x0,35            | 45544                   |                        |                         |
| 45x52x0,1               | 940366                  |                        |                         |
| 45x52x0,25              | 8150240 <sup>4)</sup>   |                        |                         |
| 45x52x0,35              | 940367                  |                        |                         |
| 45x52x0,4               | 8150241 <sup>4)</sup>   |                        |                         |
| 45,5x65x0,5             | 3173006 <sup>4)</sup>   |                        |                         |
| 50,2x57x0,15            | 949072                  |                        |                         |
| 50,2x57x0,35            | 949073                  |                        |                         |
| 50,2x57x0,5             | 949074                  |                        |                         |
| 55x68x0,5               | 948360 <sup>3)</sup>    |                        |                         |
| 55,5x63x0,1             | 44142                   |                        |                         |
| <del>55,5x63x0,35</del> | <del>44141</del>        |                        |                         |
| 57,15x66x0,1            | 8152783 <sup>4)</sup>   |                        |                         |
| 63,5x75,8x0,1           | 81383                   |                        |                         |
| 63,5x75,8x0,15          | 81384                   |                        |                         |
| 67x74,6x0,35            | 303534                  |                        |                         |
| 70,5x79x0,1             | 944562                  |                        |                         |
| 70,5x79x0,35            | 945733                  |                        |                         |



**Distansbricka zib**

Elförzinkade zink-järn, svartkromaterade

**Spacer washer zib**

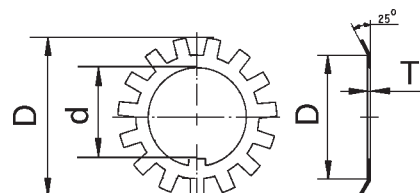
Electro-zincplated zinc-iron, black chromated

STD drawing 1053219

| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 6,4x12x4               | 943361                  | 8,4x18x10              | 948871                  |
| 6,7x12x5               | 944563                  | 10,5x18x6              | 949869                  |
| 8,4x16x7               | 949873                  | 13,5x21,5x4            | 981968                  |
| 8,4x16x9               | 946048                  |                        |                         |

**Låsbricka**

Elförzinkad, gulkromaterad

**Loch washer**

Electro-zincplated, yellow chromated

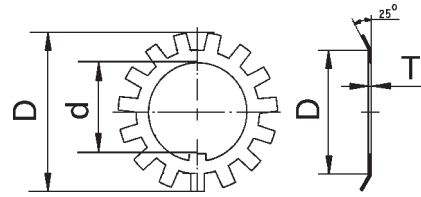
STD drawing 1607339

| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 20x36x1                | 1607339                 |           |                         |

**Låsbricka fos**  
**Fosfaterade**

**Loch washer fos**  
**Phosphated**

STD 7155,6



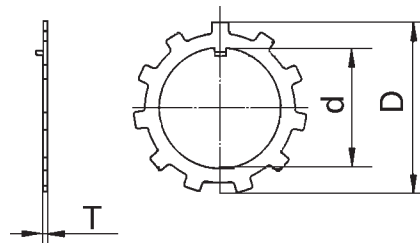
| Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|
| 25x42x1,25             | 907023                  |
| 30x49x1,25             | 907024                  |
| 50x74x1,25             | 907028                  |

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**Låsbricka**  
**Stål**

**Loch washer**  
**Steel**

STD drawing 1053321, 1052798 <sup>1)</sup>



| Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|
| 40x62x1,25             | 981064 <sup>1)</sup>    |
| 83x121x3               | 191179                  |

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

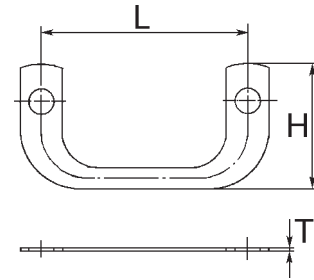
## Låsbricka

Stål

## Loch washer

Steel

STD drawing 942410



| Dimension<br>L x H x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 88x53x1                | 942410                  |           |                         |

## Tandbricka zib

Elförzinkade zink-järn, svartkromaterade

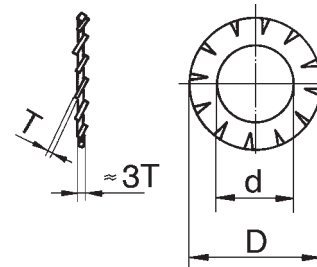
Ytterslitande solfjäderbrickor

## Toothed washer zib

Electro-zincplated zinc-iron, black chromated

Serrated lock washers external teeth

STD drawing 1052063, 1052064 <sup>1)</sup>



| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 3,2x6x0,4              | 967597                  |           |                         |
| 4,3x8x0,5              | 942603                  |           |                         |
| 5,1x9x0,5              | 942604 <sup>1)</sup>    |           |                         |
| 5,3x10x0,6             | 967599                  |           |                         |
| 6,4x11x0,7             | 942605                  |           |                         |
| 8,2x14x0,8             | 942767                  |           |                         |
| 12,5x20,5x1            | 967600                  |           |                         |
| 19x30x1,4              | 967603                  |           |                         |

## Tandbricka zib

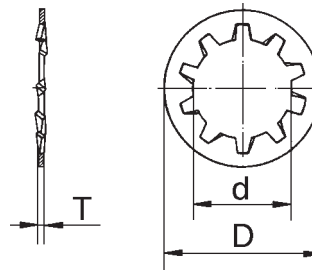
### Elförzinkade zink-järn, svartkromaterade

Invändig tandning, Typ ITB

## Toothed washer zib

### Electro-zincplated zinc-iron, black chromated

Internal tooth, Type ITB



STD drawing 1053455

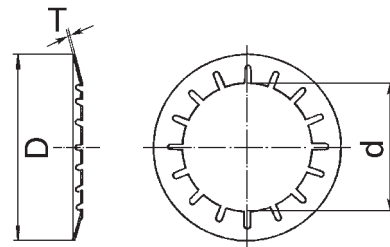
| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension<br>d x D x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 3,2x6x0,4              | 955944                  | 11,6x19,8x0,9          | 940147                  |
| 3,7x7x0,5              | 940121                  | 12,5x20,5x1            | 940143                  |
| 4,3x8x0,5              | 955945                  | 13,2x22x1              | 955951                  |
| 5,1x9x0,5              | 955946                  | 14,5x24x1              | 955952                  |
| 5,3x10x0,6             | 955947                  | 16,5x26x1,2            | 955953                  |
| 6,4x11x0,7             | 955948                  | 19x30x1,4              | 955954                  |
| 6,5x12,1x0,6           | 940155                  | 21x33x1,4              | 955956                  |
| 8,2x14x0,8             | 955949                  | 23x36x1,5              | 955957                  |
| 9,9x17,4x0,9           | 955950                  | 26x40x1,6              | 955959                  |
| 10,5x18x0,9            | 940109                  |                        |                         |

## Tandbricka

### Fjäderstål

## Toothed washer

### Spring steel



STD drawing 946222

| Dimension<br>d x D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 22,6x34,5x0,35         | 946222                  |           |                         |

## Tandbricka

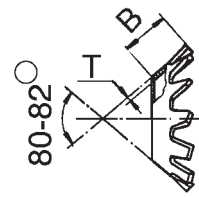
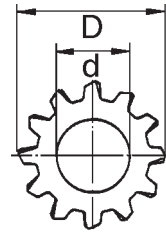
### Elförzinkade

Konisk utvändig tandning, Hårdhet 40-50 HCR

## Toothed washer

### Electro-zincplated

Tapered external teeth, Hardness 40-50 HCR



**STD 17155,5**

**Dimension  
d x D x T**

**Artikel nr.  
Part No.**

**Dimension**

**Artikel nr.  
Part No.**

8,1x15,2x0,7

18895

## Tandbricka

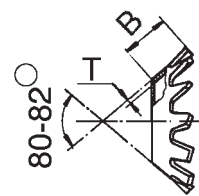
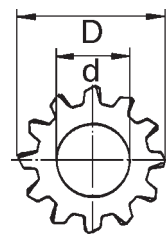
### Obehandlad

Konisk utvändig tandning, Hårdhet 40-50 HCR

## Toothed washer

### Untreated

Tapered external teeth, Hardness 40-50 HCR



**STD 17155,505**

**Dimension  
d x D x T**

**Artikel nr.  
Part No.**

**Dimension**

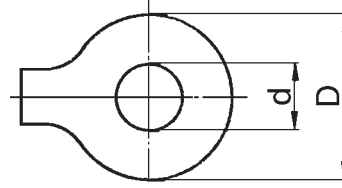
**Artikel nr.  
Part No.**

6,5x11,5x0,6

18891

**Vikbricka**  
**Stål**

**Tab washer**  
**Steel**



STD drawing 1054200

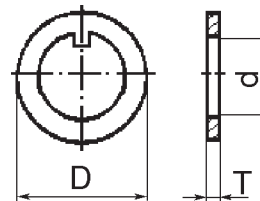
| Dimension<br>d × D × T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|
|------------------------|-------------------------|

|             |        |
|-------------|--------|
| 8,4x22x0,75 | 190296 |
|-------------|--------|

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**Vikbricka**  
**Stål**

**Tab washer**  
**Steel**



STD drawing 1052755

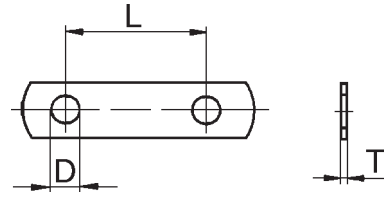
| Dimension<br>d × D × T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|
|------------------------|-------------------------|

|              |        |
|--------------|--------|
| 28,75x60x1,5 | 192642 |
|--------------|--------|

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**Vikbricka dubbel**  
**Stål**

**Double tab washer**  
**Steel**

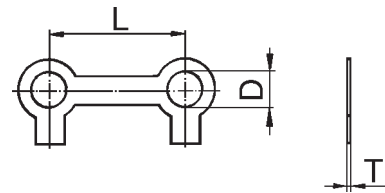


STD drawing 1052736

| Dimension<br>d x L x T | Artikel nr.<br>Part No. | Dimension<br>d x L x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 6,4x16x2               | 968549                  | 11x24x1                | 120325                  |
| 8,4x54x1               | 941878                  | 11x50x1                | 62109                   |
| 10,5x46x1              | 966717                  | 15x81x1                | 941465                  |
| 10,5x66x1              | 190529                  | 15,5x68,7x1            | 941464                  |

**Vikbricka dubbel**  
**Obehandlad**

**Double tab washer**  
**Untreated**

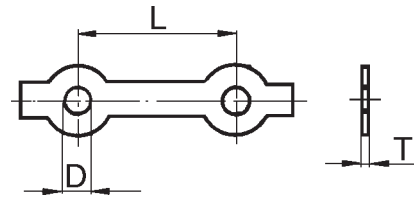


STD 17156,705

| Dimension<br>d x L x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 10,5x38x1              | 949459                  |           |                         |

**Vikbricka dubbel**  
**Obehandlad**

**Double tab washer**  
**Untreated**

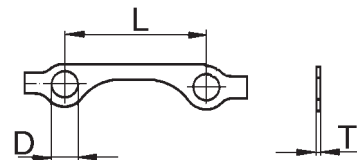


STD 17156,712

| Dimension<br>d x L x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|------------------------|-------------------------|-----------|-------------------------|
| 12x50,8x1,25           | 941495                  |           |                         |
| 13x30x1,25             | 15264                   |           |                         |

**Vikbricka dubbel**  
**Stål**

**Double tab washer**  
**Steel**



STD drawing 1057709, 1052595 <sup>1)</sup>

| Dimension<br>d x L x T | Artikel nr.<br>Part No. | Dimension<br>d x L x T | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 8,4x44,5x1,25          | 943705                  | 10,5x44,5x1,25         | 942167                  |
| 8,4x45x1,25            | 15260                   | 10,5x59,5x1,25         | 15193                   |
| 8,4x50x1               | 980583 <sup>1)</sup>    | 10,5x70,5x1,25         | 120307                  |
| 8,4x50x1               | 15176                   | 11x60,5x1,25           | 967666                  |
| 8,4x51x1,25            | 947071                  | 11x80x1,25             | 120331                  |
| 8,4x59x1               | 949870                  |                        |                         |



## Spårring

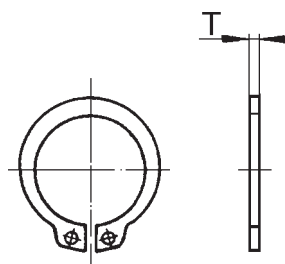
### Stål

För axlar

## Retaining ring

### Steel

For shafts



STD drawing 1053226, 1054204 <sup>1)</sup>

D = Axeldiameter/Shaft diam.

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension<br>D x T | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 8x0,8              | 955964                  | 5x2,5              | 914482                  |
| 9x1                | 955965                  | 80x2,5             | 914484                  |
| 10x1               | 951075                  | 82x2,5             | 945506                  |
| 12x1               | 914446                  | 85x3               | 914486                  |
| 14x1               | 914448                  | 90x3               | 914488                  |
| 15x1               | 914449                  | 100x1,5            | 944313 <sup>1)</sup>    |
| 16x1               | 914450                  | 100x3              | 914492                  |
| 18x1,2             | 914452                  | 105x4              | 951079                  |
| 20x1,2             | 914454                  | 110x4              | 951080                  |
| 22x1,2             | 914456                  | 125x4              | 945509                  |
| 24x1,2             | 951077                  | 130x4              | 951082                  |
| 25x1,2             | 914459                  |                    |                         |
| 26x1,2             | 951078                  |                    |                         |
| 28x1,5             | 914461                  |                    |                         |
| 30x1,5             | 914462                  |                    |                         |
| 32x1,5             | 914463                  |                    |                         |
| 34x1,5             | 945497                  |                    |                         |
| 35x1,5             | 914465                  |                    |                         |
| 40x1,75            | 914468                  |                    |                         |
| 40x1,9             | 942992 <sup>1)</sup>    |                    |                         |
| 40x2               | 942723 <sup>1)</sup>    |                    |                         |
| 44x1,75            | 941844 <sup>1)</sup>    |                    |                         |
| 45x1,5             | 949788 <sup>1)</sup>    |                    |                         |
| 45x1,75            | 914470                  |                    |                         |
| 45x1,85            | 190745 <sup>1)</sup>    |                    |                         |
| 45x1,95            | 190746 <sup>1)</sup>    |                    |                         |
| 45x2               | 949787 <sup>1)</sup>    |                    |                         |
| 45x2,05            | 190747 <sup>1)</sup>    |                    |                         |
| 45x2,5             | 948999 <sup>1)</sup>    |                    |                         |
| 48x1,75            | 914471                  |                    |                         |
| 50x2               | 914472                  |                    |                         |
| 50x3               | 949321 <sup>1)</sup>    |                    |                         |
| 52x2               | 945499                  |                    |                         |
| 55x2               | 914474                  |                    |                         |
| 57x2               | 44381 <sup>1)</sup>     |                    |                         |
| 58x2,2             | 943318 <sup>1)</sup>    |                    |                         |
| 58x2,3             | 943319 <sup>1)</sup>    |                    |                         |
| 58x2,4             | 943320 <sup>1)</sup>    |                    |                         |
| 58x2,5             | 943321 <sup>1)</sup>    |                    |                         |
| 60x2               | 914476                  |                    |                         |
| 62x2               | 944986                  |                    |                         |
| 63x2               | 945502                  |                    |                         |
| 65x2,5             | 914478                  |                    |                         |
| 70x2,5             | 914480                  |                    |                         |
| 72x2,5             | 945504                  |                    |                         |

**Spårring  
Stål**

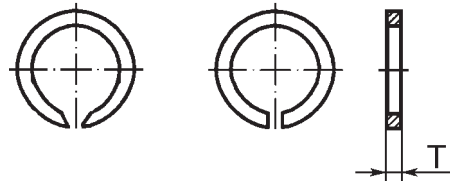
För axlar, Typ SW

**Retaining ring  
Steel**

For shafts, Type SW

$D \leq 38$

$D > 38$



**STD drawing 1057710**

D = Axeldiameter/Shaft diam.

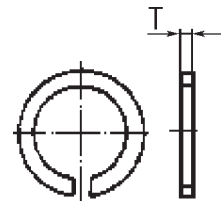
| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 16x1,2             | 949689                  |           |                         |
| 37x1,5             | 944100                  |           |                         |
| 72x2               | 949872                  |           |                         |
| 95x2,5             | 968826                  |           |                         |
| 160x2,5            | 968827                  |           |                         |

**Spårring fos  
Fosfaterade**

För axlar

**Retaining ring fos  
Phosphated**

For shafts



**STD 17157,427**

D = Axeldiameter/Shaft diam.

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension<br>D x T | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 130x2,3            | 942332                  | 160x2,4            | 941555                  |
| 130x2,4            | 941551                  | 160x2,5            | 941554                  |
| 130x2,5            | 941550                  | 160x2,6            | 941553                  |
| 130x2,6            | 941549                  | 160x2,7            | 941552                  |
| 130x2,7            | 941548                  | 160x3,15           | 949380                  |
| 160x2,3            | 942333                  |                    |                         |

## Spårring fos

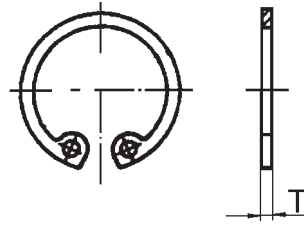
### Fosfaterade

För hål

## Retaining ring fos

### Phosphated

For bores



STD drawing 1053236

D = Håldiameter/Bore diam.

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 14x1               | 955970                  |           |                         |
| 17x1               | 945477                  |           |                         |
| 18x1               | 914506                  |           |                         |
| 19x1               | 914507                  |           |                         |
| 20x1               | 945477                  |           |                         |
| 24x1,2             | 951085                  |           |                         |
| 25x1,2             | 914513                  |           |                         |
| 26x1,2             | 951086                  |           |                         |
| 28x1,2             | 914515                  |           |                         |
| 32x1,2             | 914517                  |           |                         |
| 34x1,5             | 945479                  |           |                         |
| 35x1,5             | 914519                  |           |                         |
| 37x1,5             | 951087                  |           |                         |
| 38x1,5             | 914522                  |           |                         |
| 40x1,75            | 914523                  |           |                         |
| 42x1,75            | 914524                  |           |                         |
| 45x1,75            | 914525                  |           |                         |
| 47x1,75            | 914526                  |           |                         |
| 43x1,75            | 945481                  |           |                         |
| 52x2               | 914529                  |           |                         |
| 55x2               | 914530                  |           |                         |
| 58x2               | 914531                  |           |                         |
| 60x2               | 914532                  |           |                         |
| 62x2               | 914533                  |           |                         |
| 65x2,5             | 914534                  |           |                         |
| 68x2,5             | 914535                  |           |                         |
| 70x2,5             | 914536                  |           |                         |
| 72x2,5             | 914537                  |           |                         |
| 75x2,5             | 914538                  |           |                         |
| 80x2,5             | 914540                  |           |                         |
| 85x3               | 914542                  |           |                         |
| 90x3               | 914544                  |           |                         |
| 100x3              | 914548                  |           |                         |
| <del>112x4</del>   | <del>945490</del>       |           |                         |
| 125x4              | 914553                  |           |                         |
| 130x4              | 914554                  |           |                         |
| 140x4              | 914556                  |           |                         |

## Spårring fos

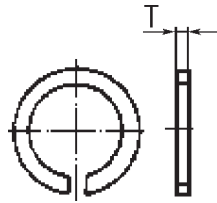
### Fosfaterade

För lager med ringspår, Typ SP

## Retaining ring fos

### Phosphated

For roiling bearings with groove, Type SP



**STD 17157,428**

D = Axeldiameter/Shaft diam.

**Dimension**  
**D x T**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

130x2,82

941531

160x2,82

941558

## Spårring

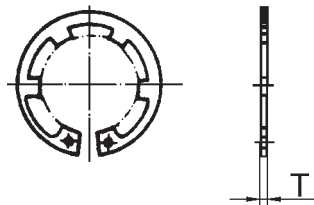
### Stål

För hål, Med tappar

## Retaining ring

### Steel

For bores, With tabs



**STD drawing 1053769**

D = Håldiameter/Bore diam.

**Dimension**  
**D x T**

**Artikel nr.**  
**Part No.**

**Dimension**

**Artikel nr.**  
**Part No.**

20x1

967933

26x1,2

192125

## Spårring fos

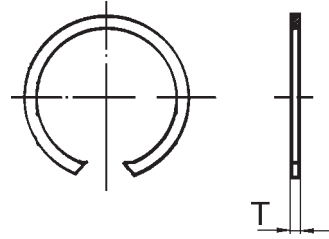
### Stål

För hål, Typ SP

## Retaining ring

### Steel

For bores, Type SP



STD drawing 1053694

D = Håldiameter/Bore diam.

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension<br>D x T | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 28x1,2             | 976780                  | 118x2,5            | 949909                  |
| 97x2,5             | 969360                  | 125x2,5            | 943467                  |
| 100x2,5            | 949435                  | 130x2,5            | 943760                  |
| 102x2,5            | 947378                  | 310x4              | 968825                  |

## Spårring

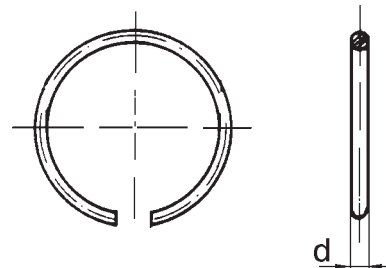
### Stål

För hål, Speciella utföranden

## Retaining ring

### Steel

For bores, Special designs



STD drawing 1053368, 1053259 <sup>1)</sup>

D = Håldiameter/Bore diam.

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension<br>D x T | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 28x2               | 947614 <sup>1)</sup>    | 90x3,2             | 977173 <sup>1)</sup>    |
| 32x2,5             | 949324 <sup>1)</sup>    | 132x3              | 118125                  |
| 48x2,5             | 949789 <sup>1)</sup>    |                    |                         |

## Spårring

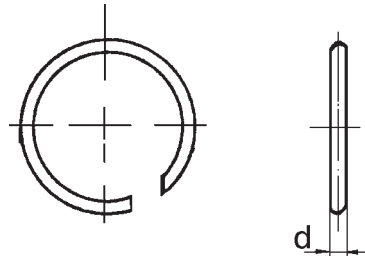
### Rostfri

För hål

## Retaining ring

### Stainless

For bores



**STD 17157,729**

D = Håldiameter/Bore diam.

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
|--------------------|-------------------------|-----------|-------------------------|

|      |        |  |  |
|------|--------|--|--|
| 84x3 | 302156 |  |  |
|------|--------|--|--|

## Hållare

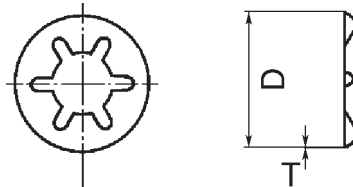
### Rostritt stål

Rund

## Retaining clips

### Stainless steel

Circular



**STD drawing 1058214**

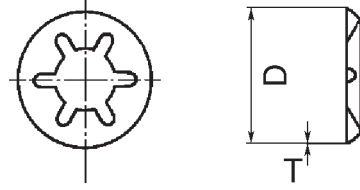
| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
|--------------------|-------------------------|-----------|-------------------------|

|           |        |  |  |
|-----------|--------|--|--|
| 15,3x0,25 | 983478 |  |  |
|-----------|--------|--|--|

## Hållare

### Elförzinkade zink-järn, svartkromaterade

Stål, Runda



## Retaining clips

### Electro-zincplated zinc-iron, black chromated

Steel, Circular

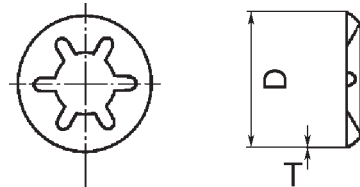
STD drawing 1052857

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 11,7x0,2           | 191695                  |           |                         |
| 18,7x0,3           | 967581                  |           |                         |
| 28,5x0,4           | 967584                  |           |                         |

## Hållare

### Elförzinkade, gulkromaterade alt mekaniskt pläterade

Stål, Runda



## Retaining clips

### Electro-zincplated, yellow chromated alt mechanically plated

Steel, Circular

STD drawing 1052858

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 9,7x0,2            | 944602                  |           |                         |
| 15,3x0,25          | 943407                  |           |                         |

## Hållare

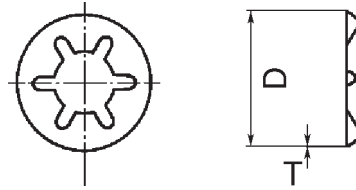
### Lackerade, svart

Stål, Runda

## Retaining clips

### Painted, black

Steel, Circular



STD drawing 1052856

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3x0,2              | 965743                  |           |                         |
| 5x0,2              | 945780                  |           |                         |
| 6x0,25             | 945717                  |           |                         |
| 8x0,25             | 945718                  |           |                         |
| 10x0,3             | 945719                  |           |                         |

## Hållare

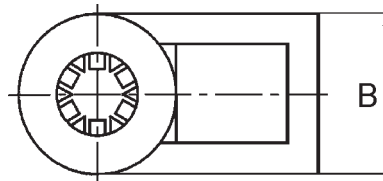
### Plast

För bandklämmor, Svettskruvmontage

## Retaining clips

### Plastic

For cable ties, Weld screw assembly



STD drawing 1053736

| Dimension<br>B | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 5,2            | 977583                  |           |                         |



## Spårryttare

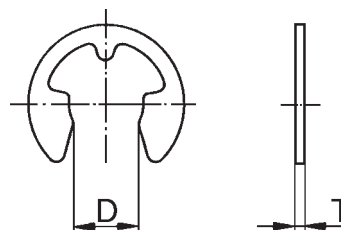
### Fosfaterade

Fjäderstål

## E-circlips

### Phosphated

Spring steel



STD drawing 1053014

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension<br>D x T | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1,2x0,3            | 951662                  | 7x0,9              | 951670                  |
| 3,2x0,6            | 951666                  | 8x1                | 966237                  |
| 4x0,7              | 951667                  | 9x1,1              | 951671                  |
| 5x0,7              | 951668                  | 10x1,2             | 966238                  |
| 6x0,7              | 951669                  | 15x1,5             | 966240                  |

## Spårryttare fzb

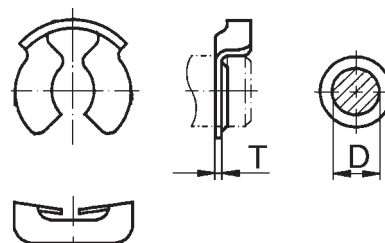
### Elförzinkade zink-järn, svartkromaterade

Fjäderstål

## E-circlips fzb

### Electro-zincplated zinc-iron, black chromated

Spring steel



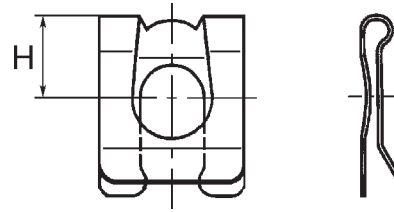
STD drawing 1052360

| Dimension<br>D x T | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 10x0,65            | 946595                  |           |                         |
| 14x0,7             | 947537                  |           |                         |
| 16x0,7             | 947515                  |           |                         |

## Låsbygel

### Elförzinkade zink-järn, svartkromaterade

Fjäderstål



## Lock brace

### Electro-zincplated zinc-iron, black chromated

Spring steel

STD drawing 1052361

Dimension

H

Artikel nr.

Part No.

Dimension

Artikel nr.

Part No.

5

944729

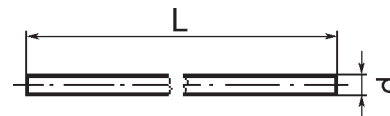
8

942915

## Låstråd

### Stål

Kapade längder



## Locking wire

### Steel

Cut lengths

STD drawing 1053542

Dimension

D x L

Artikel nr.

Part No.

Dimension

Artikel nr.

Part No.

1,5x700

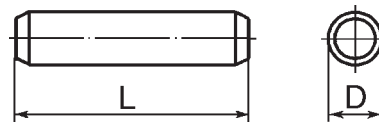
944556

## Cylindrisk pinne

Stål

## Parallel pins

Steel

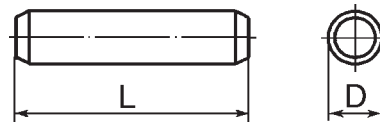


STD drawing 1052435, 1052904 <sup>1)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3x8                | 950499                  |           |                         |
| 3x20               | 950505                  |           |                         |
| 5x12               | 950525                  |           |                         |
| 5x30               | 950533                  |           |                         |
| 6x6                | 131205 <sup>1)</sup>    |           |                         |
| 6x7,5              | 21660 <sup>1)</sup>     |           |                         |
| 6x16               | 950543                  |           |                         |
| 6x18               | 950544                  |           |                         |
| 6x18               | 949020 <sup>1)</sup>    |           |                         |
| 6x30               | 950549                  |           |                         |
| 8x16               | 950562                  |           |                         |
| 8x25               | 950566                  |           |                         |
| 8x45               | 950574                  |           |                         |
| 8x55               | 950578                  |           |                         |
| 8x90               | 131273 <sup>1)</sup>    |           |                         |
| 10x20              | 950586                  |           |                         |
| 10x25              | 950588                  |           |                         |
| 10x35              | 950592                  |           |                         |
| 10x55              | 950600                  |           |                         |
| 12x20              | 19730 <sup>1)</sup>     |           |                         |
| 12x28              | 950612                  |           |                         |
| 12x30              | 950613                  |           |                         |
| 12x45              | 950619                  |           |                         |
| 12x60              | 950625                  |           |                         |
| 12x70              | 950628                  |           |                         |
| 13x28              | 131354 <sup>1)</sup>    |           |                         |
| 14x28              | 950643                  |           |                         |
| 14x32              | 950645                  |           |                         |
| 14x45              | 950650                  |           |                         |
| 14x70              | 950659                  |           |                         |
| 16x30              | 950675                  |           |                         |
| 16x35              | 950677                  |           |                         |
| 16x40              | 950679                  |           |                         |
| 16x45              | 950681                  |           |                         |
| 16x50              | 950683                  |           |                         |
| 18x18              | 941776 <sup>1)</sup>    |           |                         |
| 18x22              | 948073 <sup>1)</sup>    |           |                         |
| 18x25              | 941840 <sup>1)</sup>    |           |                         |
| 18x40              | 947606 <sup>1)</sup>    |           |                         |
| 18x45              | 973870 <sup>1)</sup>    |           |                         |
| 18x48              | 941510 <sup>1)</sup>    |           |                         |
| 18x52              | 979863 <sup>1)</sup>    |           |                         |
| 18x56              | 941511 <sup>1)</sup>    |           |                         |
| 18x65              | 969031 <sup>1)</sup>    |           |                         |
| 18x70              | 981718 <sup>1)</sup>    |           |                         |
| 18,1x25            | 981155 <sup>1)</sup>    |           |                         |
| 20x45              | 950711                  |           |                         |

**Cylindrisk pinne**  
**Stål, sätthärdade**

**Parallel pins**  
**Steel, case hardened**



STD drawing 1052648

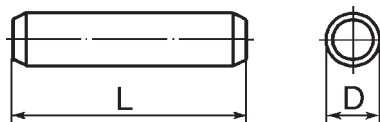
| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

|        |        |
|--------|--------|
| 8x49,5 | 968916 |
| 10x20  | 944136 |
| 16x40  | 131413 |

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

**Cylindrisk pinne fzb**  
**Elförzinkade zink-järn, svartkromaterade**

**Parallel pins fzb**  
**Electro-zincplated zinc-iron, black chromated**



STD drawing 1052359, 1053393 <sup>1)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

|        |                      |
|--------|----------------------|
| 10x20  | 981625 <sup>1)</sup> |
| 12x68  | 191968               |
| 14x111 | 941689               |
| 14x122 | 941690               |

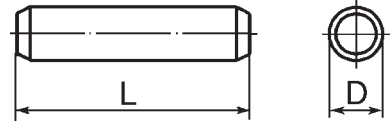
| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

## Cylindrisk pinne

Med speciella ändfaser

## Parallel pins

With special end bevels



**STD 17112,2**

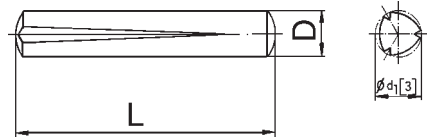
| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 14x35              | 943739                  |           |                         |
| 16x35              | 943738                  |           |                         |

## Räfflad pinne

Stål

## Grooved pins

Steel



**STD drawing 1052437**

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 3x12               | 907173                  | 10x35              | 961652                  |
| 3x30               | 961639                  | 10x40              | 907226                  |
| 4x12               | 907181                  | 10x45              | 907227                  |
| 8x25               | 961649                  |                    |                         |

## Fjädrande rörpinne

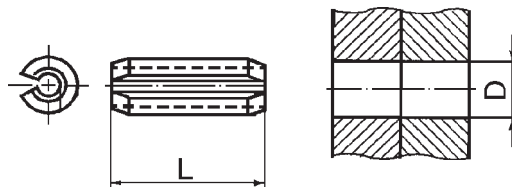
### Stål

Härdad och anlöpt stål, Hårdhet 420-520 HV

## Spring pins

### Steel

Hardened and annealed steel, Hardness 420-520 HV



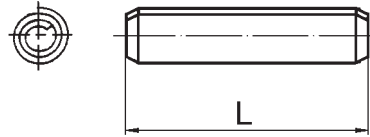
STD drawing 1052439, 1053669 <sup>1)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 2x12               | 951925                  | 12x70              | 952025                  |
| 2,5x16             | 951935                  | 16x40              | 952050                  |
| 3x16               | 951944                  | 16x50              | 952052                  |
| 3x20               | 951946                  | 20x50              | 981373                  |
| 3x24               | 951947                  |                    |                         |
| 4x10               | 951950                  |                    |                         |
| 4x12               | 951951                  |                    |                         |
| 4x18               | 951954                  |                    |                         |
| 4x20               | 951955                  |                    |                         |
| 4x24               | 951956                  |                    |                         |
| 4x28               | 951957                  |                    |                         |
| 4x32               | 951958                  |                    |                         |
| 4x36               | 951959 <sup>1)</sup>    |                    |                         |
| 4x40               | 951960                  |                    |                         |
| 4x55               | 948241 <sup>1)</sup>    |                    |                         |
| 5x12               | 951961                  |                    |                         |
| 5x16               | 951963                  |                    |                         |
| 5x20               | 951965                  |                    |                         |
| 5x28               | 951967                  |                    |                         |
| 5x32               | 951968                  |                    |                         |
| 5x36               | 951969 <sup>1)</sup>    |                    |                         |
| 5x40               | 951970                  |                    |                         |
| 5x45               | 951971                  |                    |                         |
| 5x50               | 951972                  |                    |                         |
| 6x14               | 951973                  |                    |                         |
| 6x16               | 951974                  |                    |                         |
| 6x18               | 951975                  |                    |                         |
| 6x20               | 951976                  |                    |                         |
| 6x24               | 951977                  |                    |                         |
| 6x28               | 951978                  |                    |                         |
| 6x32               | 951979                  |                    |                         |
| 6x36               | 951980 <sup>1)</sup>    |                    |                         |
| 6x40               | 951981                  |                    |                         |
| 6x45               | 951982                  |                    |                         |
| 6x50               | 951983                  |                    |                         |
| 6x60               | 951985                  |                    |                         |
| 8x20               | 951988                  |                    |                         |
| 8x24               | 951989                  |                    |                         |
| <del>8x28</del>    | <del>951990</del>       |                    |                         |
| 8x32               | 951991                  |                    |                         |
| 8x45               | 951994                  |                    |                         |
| 8x80               | 951999                  |                    |                         |
| 10x20              | 952001                  |                    |                         |
| 10x24              | 952002                  |                    |                         |
| 10x50              | 952008                  |                    |                         |
| 12x45              | 952021                  |                    |                         |

## Fjädrande rörpinne

### Stål

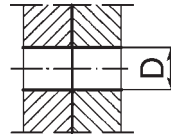
Spiralformade, Normalutförande



## Spring pins

### Steel

Coiled, Medium duty type



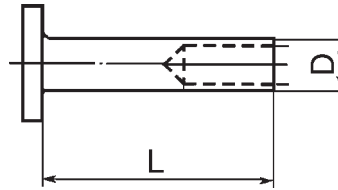
STD drawing 1053215

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3x28               | 966810                  |           |                         |
| 3x32               | 949650                  |           |                         |
| 10x55              | 968986                  |           |                         |

## Hålnitar

### Mässing

Med plant huvud



## Semitubular rivets

### Brass

With flat head

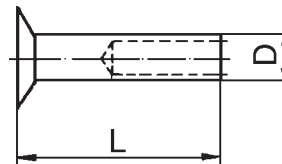
STD drawing 1052446, 1053433 <sup>1)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 4x14,5             | 952458                  |           |                         |
| 5,6x11             | 17461 <sup>1)</sup>     |           |                         |
| 6x19               | 952481                  |           |                         |

## Hålnitar

### Mässing

Med sänkhuvud



## Semitubular rivets

### Brass

With countersunk head

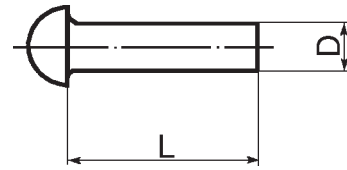
STD drawing 1052447, 1058010 <sup>1)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3,6x9,5            | 952495                  |           |                         |
| 3,6x11             | 952496                  |           |                         |
| 5,6x16             | 952523                  |           |                         |
| 6x16               | 952529                  |           |                         |
| 6x19               | 952530                  |           |                         |
| 6,4x19             | 17432 <sup>1)</sup>     |           |                         |



**Nit**  
**Med kullrigt huvud**

Mässing



**Rivets**  
**With round head**

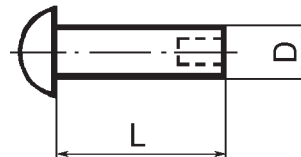
Brass

**STD 17115,162**

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 2,5x9,5            | 191475                  |           |                         |

**Nit**  
**Med kullrigt huvud**

Elförzinkade, Gulkromaterade



**Rivets**  
**With pan head**

Electro-zincplated, Yellow chromated

**STD drawing 1053434**

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3,8x8              | 952573                  |           |                         |

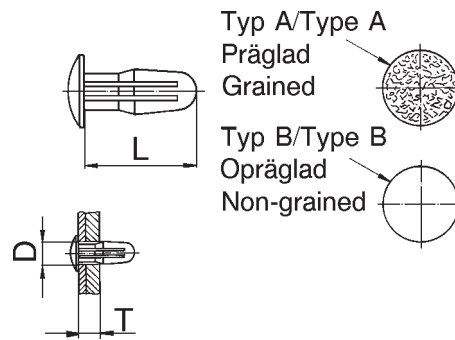
## Plastnit

Plast

## Plastic rivets

Plastic

STD drawing 1053681



| Dimension<br>D x L T | Type | Artikel nr.<br>Part No. |
|----------------------|------|-------------------------|
|----------------------|------|-------------------------|

|           |           |        |
|-----------|-----------|--------|
| 9,4x13,7  | 3,2-4,8 B | 679174 |
| 12x18     | 6,0-7,5 B | 943353 |
| 12,4x15,2 | 3,2-4,8 A | 943701 |

| Dimension | Artikel nr.<br>Part No. |
|-----------|-------------------------|
|-----------|-------------------------|

## Ramnit

Elförzinkade zink-järn, svartkromaterade

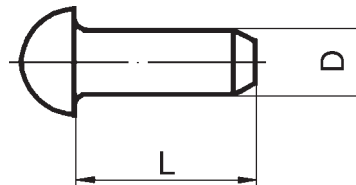
Stål

## Frame rivets

Electro-zincplated zinc-iron, black chromated

Steel

STD drawing 1052025



| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

|       |        |
|-------|--------|
| 15x30 | 980010 |
| 15x32 | 980011 |
| 15x34 | 980012 |
| 15x36 | 980013 |
| 15x38 | 980014 |
| 15x40 | 980015 |
| 15x42 | 980016 |
| 15x45 | 980017 |
| 15x50 | 980019 |

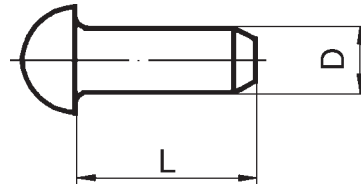
| Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

|       |        |
|-------|--------|
| 15x52 | 980020 |
| 15x55 | 980021 |
| 15x58 | 980022 |
| 15x60 | 980023 |
| 15x65 | 980025 |
| 15x68 | 980026 |
| 15x72 | 980028 |
| 15x75 | 980029 |
| 15x78 | 980030 |

## Ramnit

Elförzinkade zink-järn, svartkromaterade

Stål



## Frame rivets

Electro-zincplated zinc-iron, black chromated

Steel

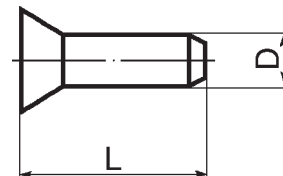
STD drawing 1052024

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 13x28              | 979986                  | 13x45     | 979994                  |
| 13x30              | 979987                  | 13x48     | 979995                  |
| 13x32              | 979988                  | 13x50     | 979996                  |
| 13x34              | 979989                  | 13x52     | 979997                  |
| 13x36              | 979990                  | 13x55     | 979998                  |
| 13x38              | 979991                  | 13x58     | 979999                  |
| 13x40              | 979992                  | 13x60     | 980000                  |
| 13x42              | 979993                  | 13x65     | 980002                  |

## Ramnit fzb

Elförzinkade, gulkromaterade

Med sänkhuvud



## Frame rivets fzb

Electro-zincplated, yellow chromated

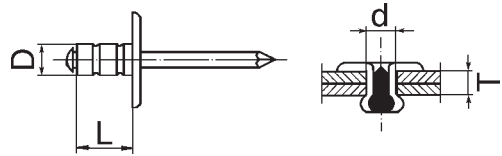
With countersunk head

STD drawing 1052321

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 12x32              | 191451                  |           |                         |
| 12x36              | 17723                   |           |                         |
| 12x38              | 191453                  |           |                         |
| 12x42              | 191454                  |           |                         |

## Blindnit med kullrigt huvud

Splint och multigriptyp, Tät, Aluminium/Stål



## Blind rivets with pan head

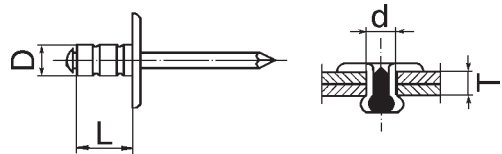
Mandrel and multigrip type, Closed, Aluminium/Steel

STD drawing 1052351

| Dimension<br>D × L | T         | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-----------|-------------------------|-----------|-------------------------|
| 3,2x7,65           | 1-4,8     | 973881                  |           |                         |
| 3,2x11             | 4-7       | 973882                  |           |                         |
| 4x13,6             | 4,8-9,6   | 975577                  |           |                         |
| 4,8x10,6           | 1,6-6,4   | 973884                  |           |                         |
| 4,8x25,2           | 12,8-19,2 | 977629                  |           |                         |

## Blindnit med kullrigt huvud

Splint och multigriptyp, Tät, Aluminium/Stål,  
Svartanodiserad



## Blind rivets with pan head

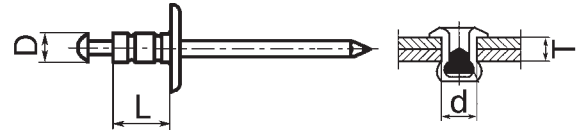
Mandrel and multigrip type, Closed, Aluminium/Steel,  
Black anodized

STD drawing 1052716

| Dimension<br>D × L | T        | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|----------|-------------------------|-----------|-------------------------|
| 4x13,2             | 1,2-6,4  | 975584                  |           |                         |
| 4,8x14,5           | 6,4-12,8 | 975586                  |           |                         |

**Blindnit  
med kullrigt huvud**

Splint och multigriptyp, Tät, Aluminium/Stål,  
Svartanodiserad



**Blind rivets  
with pan head**

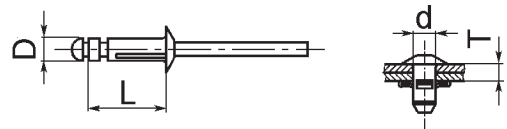
Mandrel and multigrip type, Closed, Aluminium/Steel,  
Black anodized

**STD drawing 1052718**

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 4,8x22,5           | 975607                  |           |                         |

**Blindnit  
med kullrigt huvud**

Splint och vingtyp, Huvudet kvar efter nitning,  
Aluminium/Aluminium



**Blind rivets  
with pan head**

Mandrel and ring type, Head remains after riveting,  
Aluminium/Aluminium

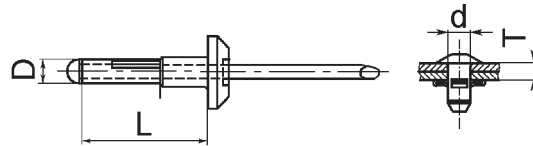
**STD drawing 1052159**

| Dimension<br>D x L | T    | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|------|-------------------------|-----------|-------------------------|
| 4x24               | 5-12 | 980339                  |           |                         |

## Blindnit

### med kullrigt huvud

Splint och vingtyp, Huvudet kvar efter nitning,  
Plastbelagd Aluminium/Aluminium



### Blind rivets with pan head

Mandrel and ring type, Head remains after riveting,  
Plastic covered Aluminium/Aluminium

STD drawing 1053571

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 4x21               | 979878                  |           |                         |

## Blindnit

### med kullrigt huvud

Tät, Aluminium/Aluminium



### Blind rivets with pan head

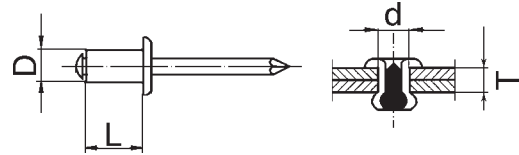
Closed, Aluminium/Aluminium

STD drawing 1053247

| Dimension<br>D x L | T         | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-----------|-------------------------|-----------|-------------------------|
| 4,8x25,1           | 12,7-15,7 | 981488                  |           |                         |

**Blindnit  
med kullrigt huvud**

Tät, Aluminium/Stål



**Blind rivets  
with pan head**

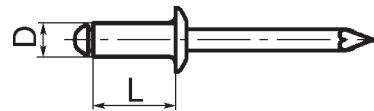
Closed, Aluminium/Steel

STD drawing 1052673

| Dimension |         |          | Artikel nr. |          |          |
|-----------|---------|----------|-------------|----------|----------|
| D x L     | T       | Part No. | D x L       | T        | Part No. |
| 3,2x6,5   | 1,6-3,2 | 965599   | 3,2x15,5    | 6,4-9,5  | 966792   |
| 3,2x8,3   | 3,2-4,8 | 942184   | 4x8,9       | 3,2-4,8  | 942679   |
| 3,2x10,1  | 4,8-6,4 | 942668   | 4x20        | 9,5-12,8 | 981580   |

**Blindnit  
med kullrigt huvud**

Tät, Monel/Stål



**Blind rivets  
with pan head**

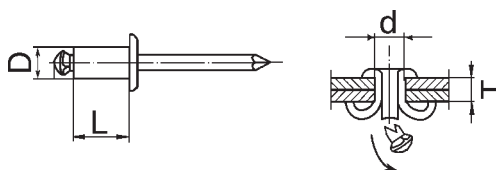
Closed, Monel/Steel

STD drawing 1053559, 70306917

| Dimension |         |          | Artikel nr. |          |          |
|-----------|---------|----------|-------------|----------|----------|
| D x L     | T       | Part No. | D x L       | T        | Part No. |
| 3,2x8,1   | 3-4,3   | 943000   | 4,8x9,6     | 3,8-5,8  | 942670   |
| 4x6,6     | 1-2,5   | 965591   | 4,8x13,5    | 5,8-8,6  | 942672   |
| 4x8,1     | 2,5-4,1 | 965592   | 4,8x17      | 8,6-12,4 | 965596   |
| 4x9,9     | 4,1-5,8 | 965593   | 7,6x19,8    | 7,6-12,7 | 70306917 |

**Blindnit  
med kullrigt huvud**

Otät, Splint och fläktyp, Aluminium/Stål



**Blind rivets  
with pan head**

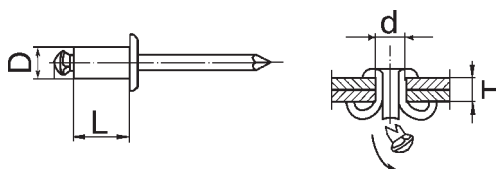
Open, Mandrel and split type, Aluminium/Steel

STD drawing 1053211

| Dimension<br>D x L | T       | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|---------|-------------------------|-----------|-------------------------|
| 4,8x15             | 5-9     | 976123                  |           |                         |
| 4,8x25,8           | 13-19,5 | 976125                  |           |                         |

**Blindnit  
med kullrigt huvud**

Otät, Splint och fläktyp, Aluminium/Stål



**Blind rivets  
with pan head**

Open, Mandrel and split type, Aluminium/Steel

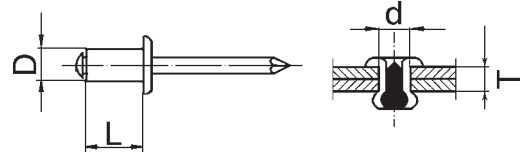
STD drawing 1053570

| Dimension<br>D x L | T       | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|---------|-------------------------|-----------|-------------------------|
| 4,8x14,9           | 1,0-6,0 | 979030                  |           |                         |



**Blindnit  
med kullrigt huvud**

Tät, Stål/Stål, Gulkromaterade



**Blind rivets  
with pan head**

Closed, Steel/Steel, Yellow chromated

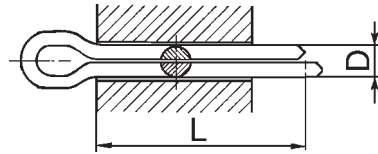
**STD drawing 1052166**

| Dimension |         |                         | Dimension               |  |
|-----------|---------|-------------------------|-------------------------|--|
| D x L     | T       | Artikel nr.<br>Part No. | Artikel nr.<br>Part No. |  |
| 3,2x6,6   | 1,6-3,2 | 945076                  |                         |  |
| 4x10,8    | 4,8-6,4 | 941806                  |                         |  |

## Saxpinne

Elförzinkade, gulkromaterade

Stål



## Split pins

Electro-zincplated, yellow chromated

Stål

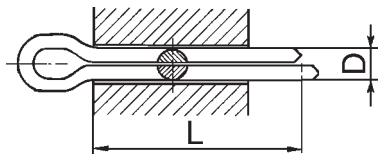
STD drawing 1052438

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 1,6x28             | 907819                  | 4x32               | 907861                  |
| 2x10               | 907821                  | 4x40               | 907863                  |
| 2x12               | 907822                  | 4x45               | 907864                  |
| 2x18               | 907824                  | 4x56               | 907866                  |
| 2,5x18             | 907834                  | 5x32               | 907872                  |
| 2,5x40             | 907840                  | 5x36               | 907873                  |
| 3,2x18             | 907845                  | 5x45               | 907875                  |
| 3,2x22             | 907847                  | 5x80               | 907881                  |
| 3,2x28             | 907849                  | 6,3x45             | 907886                  |
| 3,2x45             | 907852                  | 6,3x56             | 907888                  |
| 3,2x56             | 907855                  | 6,3x63             | 907889                  |
| 4x18               | 907856                  | 6,3x80             | 907892                  |
| 4x28               | 907860                  | 8x90               | 907903                  |

## Saxpinne

Elförzinkade, svartkromaterade

Typ SP



## Split pins

Electro-zincplated, black chromated

Type SP

STD 17113,4

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 3,5x25             | 948222                  |           |                         |
| 3,5x32             | 191174                  |           |                         |
| 4x67               | 907868                  |           |                         |

## Saxpinne

Elförzinkade, blankkromaterade

Stål



## Split pins

Electro-zincplated, bright chromated

Stål

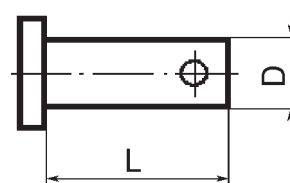
STD drawing 1052454

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|--------------------|-------------------------|-----------|-------------------------|
| 2x50               | 978992                  |           |                         |
| 3x62               | 978993                  |           |                         |

## Saxpinnebult med huvud

Elförzinkade zink-järn, svartkromaterade

Stål



## Clevis pins with head

Electro-zincplated zinc-iron, black chromated

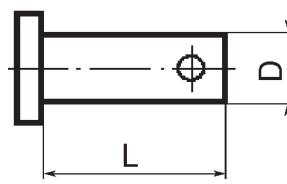
Stål

STD drawing 1052472, 1053328 <sup>1)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 6x12               | 964830                  | 10x65              | 964865                  |
| 6x16               | 964832                  | 10x70              | 964866                  |
| 6x20               | 964833                  | 10x75              | 964867                  |
| 6x25               | 964834                  | 12x40              | 964875                  |
| 6x35               | 964836                  | 12x45              | 964876                  |
| 6x40               | 964837                  | 12x50              | 964877                  |
| 6x50               | 964839                  | 12x80              | 964883                  |
| 8x20               | 964843                  | 14x30              | 964887                  |
| 8x25               | 964844                  | 14x35              | 964888                  |
| 8x30               | 964845                  | 14x40              | 964889                  |
| 8x45               | 964848                  | 14x45              | 964890                  |
| 8x55               | 964850                  | 14x70              | 964895                  |
| 8x60               | 964851                  | 15x86              | 981570 <sup>1)</sup>    |
| 8x80               | 964855                  | <del>16x50</del>   | <del>964904</del>       |
| 10x20              | 964856                  | 16x65              | 964907                  |
| 10x25              | 964857                  | 16x75              | 964909                  |
| 10x30              | 964858                  | 20x65              | 964931                  |
| 10x35              | 964859                  | 20x70              | 964932                  |
| 10x40              | 964860                  | 20x85              | 964935                  |
| 10x45              | 964861                  | 20x90              | 964936                  |
| 10x50              | 964862                  | 20x100             | 964937                  |
| 10x55              | 964863                  |                    |                         |
| 10x60              | 964864                  |                    |                         |

**Saxpinnebult med huvud**  
**Elförzinkade, gulkromaterade**

Stål



**Clevis pins with head**  
**Electro-zincplated, yellow chromated**

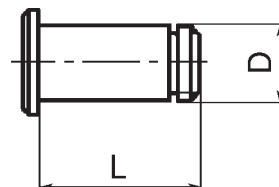
Stål

STD drawing 1054178, 1058009 <sup>1)</sup>, 1580432 <sup>2)</sup>, 1584577 <sup>3)</sup>

| Dimension<br>D x L | Artikel nr.<br>Part No.         | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|---------------------------------|--------------------|-------------------------|
| 10x25              | 913140                          | 10x70              | 952737                  |
| 10x28              | 913142                          | 12x32              | 913159                  |
| 10x32              | 913144                          | 12x40              | 913162                  |
| <del>10x42</del>   | <del>913148</del> <sup>1)</sup> | 12,6x41,3          | 1580432 <sup>2)</sup>   |
| 10x48              | 952733 <sup>1)</sup>            | 14x38              | 913177 <sup>1)</sup>    |
| 10x50              | 913150                          | 14x40              | 913178                  |
| 10x60              | 913152                          | 20x134             | 1584577 <sup>3)</sup>   |
| 10x65              | 913153                          |                    |                         |

**Spårringsbult**  
**Elförzinkade zink-järn, svartkromaterade**

Stål



**Retaining ring bolts**  
**Electro-zincplated zinc-iron, black chromated**

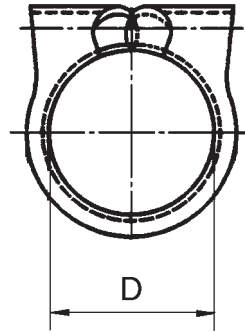
Stål

STD drawing 1052985

| Dimension<br>D x L | Artikel nr.<br>Part No. | Dimension<br>D x L | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 6x25               | 945415                  |                    |                         |
| 8x25,5             | 943684                  |                    |                         |
| 8x35,6             | 942290                  |                    |                         |
| 10x27              | 949755                  |                    |                         |

**Klammor**  
**Stål**

**Clamps**  
**Steel**



STD drawing 1053318

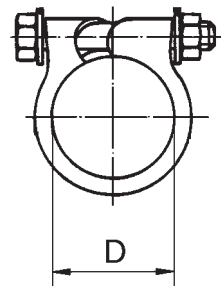
| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 27             | 949027                  |           |                         |
| 41,5           | 191466                  |           |                         |
| 45             | 192203                  |           |                         |

**Klammor**  
**Stål**

Kompletta klammor

**Clamps**  
**Steel**

Assembled clamps



STD drawing 1052079

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 36             | 966828                  |           |                         |
| 56             | 976587                  |           |                         |
| 58             | 975260                  |           |                         |

## Klammor zib

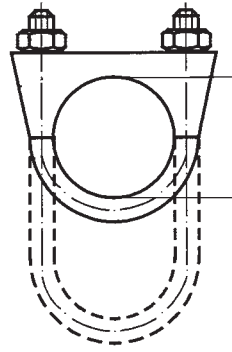
Elförzinkade zink-järn, svartkromaterade

För avgasrör

## Clamps zib

Electro-zincplated zinc-iron, black chromated

For exhaust pipes

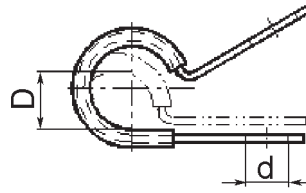


STD drawing 1052722

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 35             | 968129                  |           |                         |
| 45             | 949570                  |           |                         |
| 51             | 944026                  |           |                         |

**Klammor**  
**Gummiklädda**

**Clamps**  
**Rubber coated**



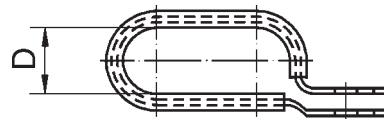
STD drawing 1052333, 1694129 <sup>1)</sup>, 1052369 <sup>2)</sup>

| Dimension<br>D x d | Artikel nr.<br>Part No. | Dimension<br>D x d | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 3,2x6,8            | 952621 <sup>2)</sup>    | 55x6,8             | 967656                  |
| 4,8x6,8            | 952622 <sup>2)</sup>    | 74x6,8             | 945543                  |
| 4,8x10,4           | 947191                  | 78x6,8             | 968336                  |
| 6,4x6,8            | 952623 <sup>2)</sup>    |                    |                         |
| 7,9x6,8            | 952624 <sup>2)</sup>    |                    |                         |
| 7,9x10,4           | 942400                  |                    |                         |
| 9,5x6,8            | 952625 <sup>2)</sup>    |                    |                         |
| 9,5x9              | 945611                  |                    |                         |
| 9,5x10,4           | 942542                  |                    |                         |
| 11,1x6,8           | 952626 <sup>2)</sup>    |                    |                         |
| 11,1x10,4          | 946834                  |                    |                         |
| 12x9               | 978869                  |                    |                         |
| 12,7x6,8           | 952627 <sup>2)</sup>    |                    |                         |
| 12,7x9             | 949746                  |                    |                         |
| 14,3x6,8           | 952628 <sup>2)</sup>    |                    |                         |
| 15,9x6,8           | 952629 <sup>2)</sup>    |                    |                         |
| 15,9x9             | 949747                  |                    |                         |
| 17x9               | 1075138 <sup>1)</sup>   |                    |                         |
| 17,5x6,8           | 952630 <sup>2)</sup>    |                    |                         |
| 17,5x10,4          | 942810                  |                    |                         |
| 18x9               | 1545433 <sup>1)</sup>   |                    |                         |
| 19x6,8             | 952631 <sup>2)</sup>    |                    |                         |
| 20x9               | 1545432 <sup>1)</sup>   |                    |                         |
| 20,6x6,8           | 952632 <sup>2)</sup>    |                    |                         |
| 22,2x6,8           | 952633 <sup>2)</sup>    |                    |                         |
| 23,5x9             | 1075139 <sup>1)</sup>   |                    |                         |
| 23,8x6,8           | 952634 <sup>2)</sup>    |                    |                         |
| 23,8x9             | 949379                  |                    |                         |
| 24x9               | 862749 <sup>1)</sup>    |                    |                         |
| 25,4x6,8           | 952635 <sup>2)</sup>    |                    |                         |
| 25,4x10,4          | 947827                  |                    |                         |
| 26x9               | 1545431 <sup>1)</sup>   |                    |                         |
| 27x6,8             | 952636 <sup>2)</sup>    |                    |                         |
| 28,6x6,8           | 952637 <sup>2)</sup>    |                    |                         |
| 30,2x6,8           | 952638 <sup>2)</sup>    |                    |                         |
| 31,8x6,8           | 952639 <sup>2)</sup>    |                    |                         |
| 31,8x9             | 949997                  |                    |                         |
| 33,3x6,8           | 952640 <sup>2)</sup>    |                    |                         |
| 34,9x6,8           | 952641 <sup>2)</sup>    |                    |                         |
| 36,5x6,8           | 952642 <sup>2)</sup>    |                    |                         |
| 38,1x6,8           | 952643 <sup>2)</sup>    |                    |                         |
| 41x6,8             | 967645                  |                    |                         |
| 44x6,8             | 947457                  |                    |                         |
| 44x9               | 973944                  |                    |                         |
| 50,8x6,8           | 945734                  |                    |                         |

## Klammor

### Gummiklädda

Stål, För två eller flera rör eller elledning



## Clamps

### Rubber coated

Steel, For two or more tubes or electric cables

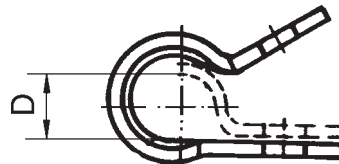
STD drawing 1053459

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension<br>D | Artikel nr.<br>Part No. |
|----------------|-------------------------|----------------|-------------------------|
| 12             | 948967                  |                |                         |
| 22,2           | 968463                  |                |                         |
| 27             | 968668                  |                |                         |

## Klammor zib

### Elförzinkade zink-järn, svartkromaterade

Stål, För rör



## Clamps zib

### Electro-zincplated zinc-iron, black chromated

Steel, For tubes

STD drawing 1052758

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension<br>D | Artikel nr.<br>Part No. |
|----------------|-------------------------|----------------|-------------------------|
| 4              | 18373                   | 12             | 968200                  |
| 5              | 121563                  | 14             | 121604                  |
| 5              | 190601                  | 15             | 190229                  |
| 6              | 946219                  | 16             | 190886                  |
| 6              | 940374                  | 18             | 943121                  |
| 8              | 18368                   | 24             | 945557                  |
| 10             | 18387                   | 25             | 121598                  |
| 10             | 191992                  | 26             | 968508                  |
| 11             | 942287                  | 30             | 947829                  |
| 12             | 190635                  | 30             | 968124                  |



## Klammor zib

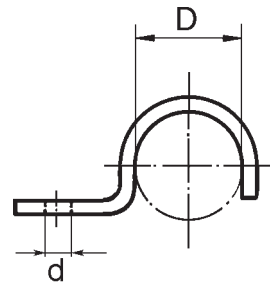
Elförzinkade zink-järn, svartkromaterade

Stål, För rör och slang

## Clamps zib

Electro-zincplated zinc-iron, black chromated

Steel, For tubes and hoses



STD drawing 1052503

| Dimension<br>D x d | Artikel nr.<br>Part No. | Dimension<br>D x d | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 3x6,4              | 951186                  | 14x6,4             | 951192                  |
| 5x6,4              | 951187                  | 16x6,7             | 957213                  |
| 6x6,4              | 966258                  | 16x6,7             | 951193                  |
| 7x6,4              | 951188                  | 19x6,7             | 951194                  |
| 8x6,4              | 951189                  | 20x6,7             | 966260                  |
| 10x6,4             | 951190                  | 22x6,7             | 951195                  |
| 12x6,4             | 957211                  | 15x9               | 977976                  |
| 12x6,4             | 951191                  | 22x9               | 977977                  |

## Klammor zib

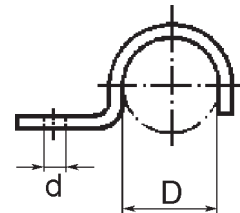
Elförzinkade zink-järn, svartkromaterade

Stål, För rör och slang

## Clamps zib

Electro-zincplated zinc-iron, black chromated

Steel, For tubes and hoses



STD drawing 1054205

| Dimension<br>D x d | Artikel nr.<br>Part No. | Dimension<br>D x d | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 5x5,3              | 18335                   | 35x9               | 967943                  |
| 7x6,4              | 191487                  | 37x6,4             | 944944                  |
| 25x6,4             | 192345                  | 47x6,4             | 947456                  |
| 25x8,4             | 190397                  | 60x6,4             | 948560                  |
| 32x8,5             | 64183                   |                    |                         |

## Klammor zib

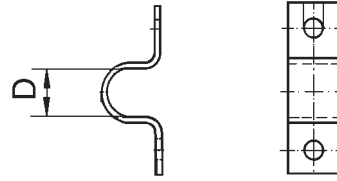
Elförzinkade zink-järn, svartkromaterade

Stål

## Clamps zib

Electro-zincplated zinc-iron, black chromated

Steel



STD drawing 1052239

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 26             | 980424                  |           |                         |
| 32             | 944284                  |           |                         |
| 50             | 339637                  |           |                         |
| 60             | 1193941                 |           |                         |
| 82             | 18961                   |           |                         |

## Klammor zib

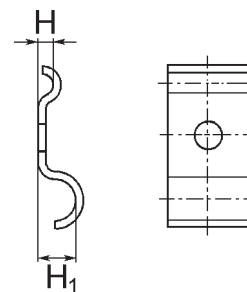
Elförzinkade zink-järn, svartkromaterade

Stål

## Clamps zib

Electro-zincplated zinc-iron, black chromated

Steel



STD drawing 1054071, 1691661 <sup>1)</sup>

| Dimension<br>H x H <sub>1</sub> | Artikel nr.<br>Part No. | Dimension<br>H x H <sub>1</sub> | Artikel nr.<br>Part No. |
|---------------------------------|-------------------------|---------------------------------|-------------------------|
| 4x4                             | 18376                   | 9,2x20                          | 191624                  |
| 4x4                             | 942610                  | 13x13                           | 1075024 <sup>1)</sup>   |
| 8x8                             | 941492                  | 15x15                           | 121580                  |
| 8x8                             | 18962                   | 18x18                           | 942421                  |
| 3x3                             | 402404                  | 18x18                           | 966687                  |
| 10x12                           | 190853                  | 20x20                           | 1075025 <sup>1)</sup>   |
| 9x10,5                          | 941486                  |                                 |                         |

## Klammor

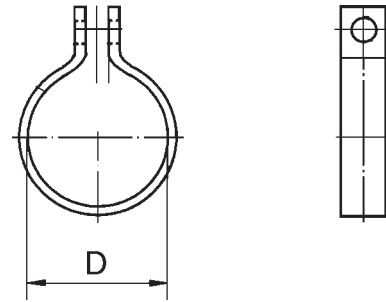
Elförzinkade zink-järn, svartkromaterade

Stål

## Clamps

Electro-zincplated zinc-iron, black chromated

Steel



STD drawing 1057711, STD 17162,4051 <sup>1)</sup>

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 22             | 949806 <sup>1)</sup>    |           |                         |
| 50             | 968581                  |           |                         |
| 60             | 949273                  |           |                         |
| 63             | 941260                  |           |                         |

## Klammor

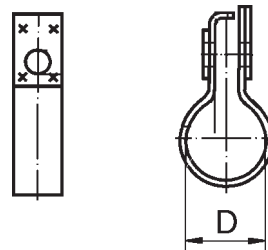
Stål

Obehandlade alt lackerade

## Clamps

Steel

Untreated or painted



STD drawing 1052636

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension<br>D | Artikel nr.<br>Part No. |
|----------------|-------------------------|----------------|-------------------------|
| 51             | 192659                  | 89             | 941336                  |
| 53,5           | 191077                  | 92             | 191297 <sup>1)</sup>    |
| 60             | 941434                  | 102            | 192047                  |
| 63             | 32446                   | 105            | 191956                  |
| 66             | 30874                   | 115            | 967960                  |
| 79             | 191296                  |                |                         |

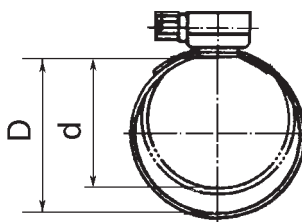
1) Painted

## Slangklämmor

Stål, Aluminium-zinkbeläggning  
Med snäckskruv

## Hose clamps

Steel, Aluminium-zinc coating  
With worm screw



STD drawing 1052352, 1052957 <sup>1)</sup>

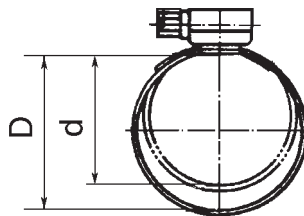
| Dimension<br>B x d - D | Artikel nr.<br>Part No. | Dimension<br>B x d - D | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 9 x 8-14               | 943469                  | 12 x 44-56             | 943478                  |
| 9 x 11-16              | 943470                  | 12 x 50-65             | 943479                  |
| 12 x 13-20             | 943471                  | 9 x 58-75              | 967765 <sup>1)</sup>    |
| 12 x 15-24             | 943472                  | 12 x 58-75             | 943480                  |
| 12 x 19-28             | 943473                  | 9 x 68-85              | 967764 <sup>1)</sup>    |
| 12 x 22-32             | 943474                  | 12 x 77-95             | 943482                  |
| 12 x 26-38             | 943475                  | 12 x 104-138           | 943484                  |
| 12 x 32-44             | 943476                  | 12 x 130-165           | 943485                  |
| 12 x 38-50             | 943477                  | 12 x 175-205           | 942921                  |

## Slangklämmor

Rostfritt stål  
Med snäckskruv

## Hose clamps

Stainless steel  
With worm screw



STD drawing 1052944

| Dimension<br>B x d - D | Artikel nr.<br>Part No. | Dimension<br>B x d - D | Artikel nr.<br>Part No. |
|------------------------|-------------------------|------------------------|-------------------------|
| 12 x 87-112            | 961676                  |                        |                         |
| 12 x 150-180           | 961907                  |                        |                         |

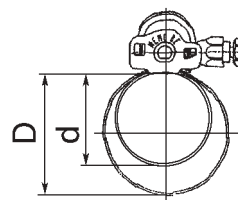
## Slangklämmor

Rostfritt stål  
Med bandbredd 9 mm

## Hose clamps

Stainless steel  
With band width 9 mm

STD drawing 1052044



| Dimension<br>d – D | Artikel nr.<br>Part No. | Dimension<br>d – D | Artikel nr.<br>Part No. |
|--------------------|-------------------------|--------------------|-------------------------|
| 12 – 22            | 980127                  | 70 – 90            | 980136                  |
| 16 – 27            | 980128                  | 80 – 100           | 980137                  |
| 20 – 32            | 980129                  | 90 – 110           | 980138                  |
| 23 – 35            | 980130                  | 100 – 120          | 980139                  |
| 30 – 45            | 980131                  | 120 – 140          | 980141                  |
| 32 – 52            | 980132                  | 130 – 150          | 980142                  |
| 40 – 60            | 980133                  | 140 – 160          | 980143                  |
| 50 – 70            | 980134                  | 160 – 200          | 8155811                 |
| 60 – 80            | 980135                  |                    |                         |

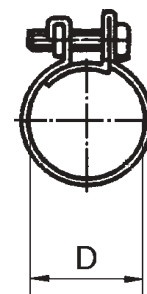
## Slangklämmor

Stål, Aluminium-zinkbeläggning  
Typ Mini med sextandhålskruv. Bandbredd 9 mm

## Hose clamps

Steel, Aluminium-zinc coating  
Type Mini with six point socket screw. Band width 9 mm

STD drawing 1052353, [1052983](#)<sup>1)</sup>



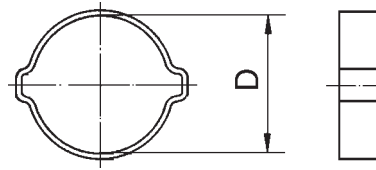
| Dimension<br>D | Artikel nr.<br>Part No.                | Dimension | Artikel nr.<br>Part No. |
|----------------|--|-----------|-------------------------|
| 9              | 976572                                 |           |                         |
| 10             | 976573                                 |           |                         |
| 11             | <a href="#">14212058</a> <sup>1)</sup> |           |                         |
| 12             | 976574                                 |           |                         |
| 13             | <a href="#">975270</a> <sup>1)</sup>   |           |                         |
| 14             | 976576                                 |           |                         |

## Slangklamma

Typ Oetiker

## Hose clamp

Type Oetiker



STD drawing 1053253

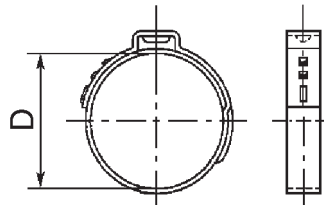
| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 15,3           | 942458                  |           |                         |

## Slangklämmor

Typ Oetiker "Stepless"

## Hose clamp

Type Oetiker "Stepless"



STD drawing 1052080

| Dimension<br>D | Artikel nr.<br>Part No. | Dimension | Artikel nr.<br>Part No. |
|----------------|-------------------------|-----------|-------------------------|
| 23,9 – 27,1    | 978176                  |           |                         |
| 39,3 – 42,5    | 978185                  |           |                         |

## Konsoler raka

Elförzinkade zink-järn, svartkromaterade

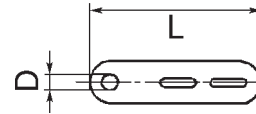
Stål



## Brackets straight

Electro-zincplated zinc-iron, black chromated

Steel



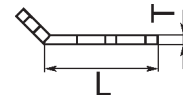
STD drawing 1052859

| Dimension<br>S x D x L x T | Artikel nr.<br>Part No. | Dimension<br>S x D x L x T | Artikel nr.<br>Part No. |
|----------------------------|-------------------------|----------------------------|-------------------------|
| 1x9x72x3                   | 965534                  | 2x11x112x3                 | 965541                  |
| 1x11x72x3                  | 965535                  | 2x14,2x112x3               | 965542                  |
| 1x14,2x72x3                | 965536                  | 3x11x142x3                 | 965544                  |
| 1x9x92x3                   | 965537                  | 3x14,2x142x3               | 965545                  |
| 1x11x92x3                  | 955538                  | 4x9x192x3                  | 965546                  |
| 1x14,2x92x3                | 965539                  | 4x11x192x3                 | 965547                  |
| 2x9x112x3                  | 965540                  |                            |                         |

## Konsoler 45°

Elförzinkade zink-järn, svartkromaterade

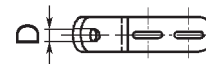
Stål



## Brackets 45°

Electro-zincplated zinc-iron, black chromated

Steel



STD drawing 1052861

| Dimension<br>S x D x L x T | Artikel nr.<br>Part No. | Dimension<br>S x D x L x T | Artikel nr.<br>Part No. |
|----------------------------|-------------------------|----------------------------|-------------------------|
| 1x9x40x3                   | 965570                  | 3x9x110x3                  | 965579                  |
| 1x11x40x3                  | 965571                  | 3x11x110x3                 | 965580                  |
| 1x14,2x40x3                | 965572                  | 3x14,2x110x3               | 965581                  |
| 1x14,2x60x3                | 965575                  | 4x14,2x160x3               | 965584                  |
| 2x14,2x80x3                | 955577                  |                            |                         |

## Konsoler 90°

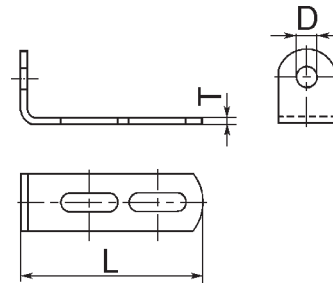
Elförzinkade zink-järn, svartkromaterade

Stål

## Brackets 90°

Electro-zincplated zinc-iron, black chromated

Steel



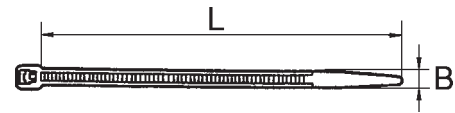
STD drawing 1052860

| Dimension<br>S x D x L x T | Artikel nr.<br>Part No. | Dimension<br>S x D x L x T | Artikel nr.<br>Part No. |
|----------------------------|-------------------------|----------------------------|-------------------------|
| 1x9x40x3                   | 965552                  | 3x9x110x3                  | 965561                  |
| 1x11x40x3                  | 965553                  | 3x11x110x3                 | 965562                  |
| 1x9x60x3                   | 965555                  | 3x14,2x110x3               | 965563                  |
| 1x11x60x3                  | 965556                  | 4x9x160x3                  | 965564                  |
| 1x14,2x60x3                | 955557                  | 4x11x160x3                 | 965565                  |
| 2x9x80x3                   | 965558                  | 4x14,2x160x3               | 965566                  |
| 2x11x80x3                  | 965559                  | 5x9x190x4                  | 965567                  |
| 2x14,2x80x3                | 965560                  | 5x14,2x190x4               | 965569                  |



**Buntband med fast låshuvud och 90° ingång, ej öppningsbar.**

**Material:** Nylon 6/6  
**Temperaturområde:** -40°C till +85°C  
**Färg:** Svart



**Cable tie with non-flexible fastener head and 90° insertion, non-openable**

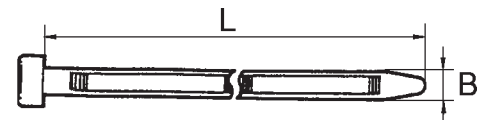
**Material:** Nylon 6/6  
**Temperature range:** -40°C to +85°C  
**Colour:** Black

STD drawing 1052354

| Dimension<br>L x B | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| 95x2,5             | 948702                  |
| 150x3,5            | 9813495                 |
| 200x3,5            | 966720                  |
| 270x4,6            | 948211                  |
| 385x4,6            | 9813496                 |
| 385x7,6            | 980464                  |
| 750x7,6            | 949902                  |
| 540x13             | 978435                  |

**Buntband med rörligt låshuvud för enhålsmontage, delvis öppningsbar.**

**Material:** Nylon 6/6  
**Temperaturområde:** -40°C till +85°C  
**Färg:** Svart



**Cable tie with flexible fastener head for single-hole tie-up, partly openable**

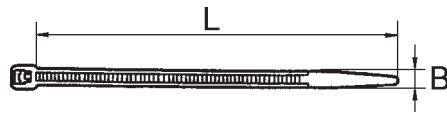
**Material:** Nylon 6/6  
**Temperature range:** -40°C to +85°C  
**Colour:** Black

STD drawing 1052354

| Dimension<br>L x B | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
| 375x7,6            | 948616                  |

**Buntband med fast låshuvud  
och 90° ingång, ej öppningsbar.**

**Material:** Värmebeständigt Nylon 46  
**Temperaturområde:** -40°C till +140°C  
**Färg:** Grå



**Cable tie with non-flexible fastener head  
and 90° insertion, non-openable**

**Material:** Heat resistant Nylon 46  
**Temperature range:** -40°C to +140°C  
**Colour:** Grey

**STD drawing 1058212**

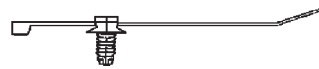
| Dimension<br>L x B | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

|         |                        |
|---------|------------------------|
| 150x3,6 | 983472                 |
| 390x7,6 | 70312532 <sup>1)</sup> |

1) Färg: Beige/Colour: Beige

**Buntband för montage i hål 6,5 H13,  
ej öppningsbar**

**Material:** Nylon 6/6  
**Temperaturområde:** -40°C till +85°C  
**Färg:** Svart



**Cable tie for mounting in 6,5 hole H13,  
non-openable**

**Material:** Nylon 6/6  
**Temperature range:** -40°C to +85°C  
**Colour:** Black

**STD drawing 1052702**

| Dimension<br>L x B | Artikel nr.<br>Part No. |
|--------------------|-------------------------|
|--------------------|-------------------------|

|         |        |
|---------|--------|
| 205x4,6 | 980881 |
|---------|--------|

**Buntband för montage på svetspinnskruv typ T5x12, öppningsbar samt med låsrillor för korrugerad slang.**

**Material:** Nylon 6/6  
**Temperaturområde:** -40°C till +85°C  
**Färg:** Svart



**Cable tie for mounting on weld pin screw type T5x12, openable and with hold notches for corrugated tubing.**

**Material:** Nylon 6/6  
**Temperature range:** -40°C to +85°C  
**Colour:** Black

**STD drawing 1053543**

| <b>Dimension<br/>L x B</b> | <b>Artikel nr.<br/>Part No.</b> |
|----------------------------|---------------------------------|
|----------------------------|---------------------------------|

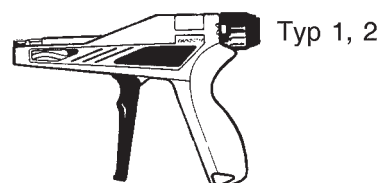
|         |        |
|---------|--------|
| 190x4,7 | 977990 |
|---------|--------|

**Bandkabeltång**

**Typ 1:** För bandbredd 2,5-5 mm  
**Typ 2:** För bandbredd 4,5-13 mm

**Ribbon cable pliers**

**Type 1:** For ribbon width 2,5-5 mm  
**Type 2:** For ribbon width 4,5-13 mm



| <b>Typ<br/>Type</b> | <b>Artikel nr.<br/>Part No.</b> |
|---------------------|---------------------------------|
|---------------------|---------------------------------|

|   |         |
|---|---------|
| 1 | 9988477 |
| 2 | 9988478 |

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| 10479                | 130          | 102726               | 73           | <del>191077</del>    | 219          | 400722               | 176          |
| 10496                | 148          | 117112               | 113          | 191130               | 165          | 402404               | 218          |
| 10504                | 154          | 117922               | 113          | 191169               | 165          | 679174               | 202          |
| 10506                | 155          | 118125               | 189          | 191172               | 165          | 862749               | 215          |
| 10507                | 155          | 120048               | 176          | 191174               | 210          | 905656               | 101          |
| 10761                | 146          | 120050               | 176          | 191179               | 178          | 907023               | 178          |
| 11958                | 165          | 120065               | 165          | 191246               | 163          | 907024               | 178          |
| 11975                | 165          | 120131               | 176          | 191276               | 162          | 907028               | 178          |
| 11978                | 165          | 120132               | 176          | 191296               | 219          | 907173               | 197          |
| 15176                | 184          | 120133               | 176          | 191297               | 219          | 907181               | 197          |
| 15193                | 184          | 120147               | 165          | 191391               | 162          | 907226               | 197          |
| 15260                | 184          | 120162               | 176          | 191451               | 203          | 907227               | 197          |
| 15264                | 184          | 120173               | 165          | 191453               | 203          | 907819               | 210          |
| 17432                | 200          | 120224               | 165          | 191454               | 203          | 907821               | 210          |
| 17461                | 200          | 120265               | 165          | 191466               | 213          | 907822               | 210          |
| 17624                | 148          | 120307               | 184          | 191475               | 201          | 907824               | 210          |
| 17723                | 203          | 120325               | 183          | 191487               | 217          | 907834               | 210          |
| 17942                | 105          | <del>120331</del>    | 184          | 191491               | 164          | 907840               | 210          |
| 18335                | 217          | <del>120408</del>    | 162          | <del>191542</del>    | 96           | 907845               | 210          |
| 18368                | 216          | 120612               | 176          | 191624               | 218          | 907847               | 210          |
| 18373                | 216          | 120613               | 176          | 191695               | 191          | 907849               | 210          |
| 18376                | 218          | 120648               | 165          | 191812               | 70           | 907852               | 210          |
| 18387                | 216          | 120663               | 176          | 191836               | 176          | 907855               | 210          |
| 18603                | 165          | 121563               | 216          | 191837               | 176          | 907856               | 210          |
| 18634                | 165          | 121580               | 218          | 191894               | 148          | 907860               | 210          |
| 18670                | 168          | 121598               | 216          | 191940               | 165          | 907861               | 210          |
| 18702                | 165          | 121604               | 216          | 191956               | 219          | 907863               | 210          |
| 18725                | 165          | 130199               | 105          | 191968               | 196          | 907864               | 210          |
| 18891                | 181          | 130403               | 105          | 191987               | 149          | 907866               | 210          |
| 18895                | 181          | 131205               | 195          | 191992               | 216          | <del>907868</del>    | 210          |
| 18961                | 218          | 131273               | 195          | 192041               | 165          | 907872               | 210          |
| 18962                | 218          | 131354               | 195          | 192047               | 219          | 907873               | 210          |
| 19656                | 146          | 131413               | 196          | 192123               | 167          | 907875               | 210          |
| 19730                | 195          | 150177               | 149          | 192125               | 188          | 907881               | 210          |
| 21660                | 195          | <del>150205</del>    | 130          | 192185               | 149          | 907886               | 210          |
| <del>25417</del>     | 113          | 153020               | 157          | 192203               | 213          | 907888               | 210          |
| 29869                | 165          | 190229               | 216          | 192272               | 149          | 907889               | 210          |
| 30874                | 219          | 190296               | 182          | 192289               | 166          | 907892               | 210          |
| 32446                | 219          | 190397               | 217          | 192318               | 96           | 907903               | 210          |
| 34614                | 176          | 190443               | 69           | 192341               | 165          | 913140               | 212          |
| <del>44141</del>     | 176          | 190509               | 165          | 192345               | 217          | 913142               | 212          |
| 44142                | 176          | 190529               | 183          | 192354               | 164          | 913144               | 212          |
| 44381                | 185          | 190543               | 165          | 192413               | 142          | <del>913148</del>    | 212          |
| 45544                | 176          | 190547               | 113          | 192463               | 176          | 913150               | 212          |
| 45545                | 176          | 190581               | 70           | 192464               | 176          | 913152               | 212          |
| 62109                | 183          | 190601               | 216          | 192465               | 176          | 913153               | 212          |
| 62218                | 176          | 190621               | 165          | 192477               | 165          | 913159               | 212          |
| 64183                | 217          | 190635               | 216          | 192498               | 69           | 913162               | 212          |
| 80506                | 176          | 190734               | 134          | 192546               | 69           | 913177               | 212          |
| 81383                | 176          | 190745               | 185          | 192557               | 162          | 913178               | 212          |
| 81384                | 176          | 190746               | 185          | 192591               | 164          | 914446               | 185          |
| 84218                | 176          | 190747               | 185          | 192642               | 182          | 914448               | 185          |
| 84219                | 176          | 190788               | 165          | 192659               | 219          | 914449               | 185          |
| 100222               | 59           | 190835               | 176          | 302156               | 190          | 914450               | 185          |
| 100223               | 59           | 190853               | 218          | 303534               | 176          | 914452               | 185          |
| 100338               | 59           | 190886               | 216          | 338888               | 149          | 914454               | 185          |
| 100773               | 59           | 190896               | 95           | 339637               | 218          | 914456               | 185          |
| 102041               | 69           | 191029               | 155          | 346690               | 105          | 914459               | 185          |
| 102720               | 73           | 191055               | 154          | 350039               | 149          | 914461               | 185          |

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| 914462               | 185          | 924075               | 105          | 940179               | 140          | 941907               | 173          |
| 914463               | 185          | 924076               | 105          | 940180               | 69           | 941908               | 173          |
| 914465               | 185          | 924078               | 105          | 940182               | 69           | 941909               | 173          |
| 914468               | 185          | 924082               | 105          | 940184               | 69           | 941911               | 173          |
| 914470               | 185          | 924083               | 105          | 940186               | 69           | 941912               | 173          |
| 914471               | 185          | 924087               | 105          | 940191               | 168          | 941913               | 173          |
| 914472               | 185          | 924088               | 105          | 940197               | 147          | 941914               | 173          |
| 914474               | 185          | 924089               | 105          | 940280               | 173          | 941916               | 173          |
| 914476               | 185          | 924092               | 105          | 940326               | 84           | 941917               | 173          |
| 914478               | 185          | 924094               | 105          | 940366               | 176          | 941939               | 69           |
| 914480               | 185          | <del>924096</del>    | 105          | 940367               | 176          | 941962               | 162          |
| 914482               | 185          | 924098               | 105          | 940374               | 216          | 941975               | 162          |
| 914484               | 185          | 924101               | 105          | 940395               | 165          | 942001               | 84           |
| 914486               | 185          | 924112               | 105          | 941251               | 69           | 942088               | 176          |
| 914488               | 185          | 924119               | 105          | 941260               | 219          | 942133               | 171          |
| 914492               | 185          | 924130               | 105          | 941291               | 176          | 942134               | 171          |
| 914506               | 187          | 930760               | 161          | 941292               | 176          | 942135               | 171          |
| 914507               | 187          | 930761               | 161          | 941293               | 176          | 942136               | 171          |
| 914513               | 187          | 930846               | 167          | 941336               | 219          | 942140               | 171          |
| 914515               | 187          | 930851               | 167          | 941434               | 219          | 942141               | 171          |
| 914517               | 187          | 940090               | 165          | 941464               | 183          | 942142               | 171          |
| 914519               | 187          | 940092               | 140          | 941465               | 183          | 942143               | 171          |
| 914522               | 187          | 940094               | 69           | 941486               | 218          | 942144               | 171          |
| 914523               | 187          | 940098               | 69           | 941492               | 218          | 942145               | 171          |
| 914524               | 187          | 940100               | 69           | 941495               | 184          | 942146               | 171          |
| 914525               | 187          | 940101               | 58           | 941510               | 195          | 942148               | 171          |
| 914526               | 187          | 940108               | 174          | 941511               | 195          | 942149               | 171          |
| 914529               | 187          | 940109               | 180          | 941531               | 188          | 942150               | 171          |
| 914530               | 187          | 940111               | 71           | 941548               | 186          | 942151               | 171          |
| 914531               | 187          | 940113               | 69           | 941549               | 186          | 942153               | 171          |
| 914532               | 187          | 940114               | 69           | 941550               | 186          | 942154               | 171          |
| 914533               | 187          | 940115               | 69           | 941551               | 186          | 942155               | 171          |
| 914534               | 187          | 940116               | 69           | 941552               | 186          | 942157               | 171          |
| 914535               | 187          | 940117               | 69           | 941553               | 186          | 942159               | 171          |
| 914536               | 187          | 940118               | 145          | 941554               | 186          | 942160               | 171          |
| 914537               | 187          | 940119               | 140          | 941555               | 186          | 942161               | 171          |
| 914538               | 187          | 940121               | 180          | 941558               | 188          | 942163               | 171          |
| 914540               | 187          | 940122               | 148          | 941570               | 74           | 942164               | 171          |
| 914542               | 187          | 940133               | 69           | 941610               | 80           | 942167               | 184          |
| 914544               | 187          | 940135               | 69           | 941678               | 69           | 942180               | 172          |
| 914548               | 187          | 940136               | 69           | 941679               | 69           | <del>942181</del>    | 66           |
| 914553               | 187          | 940140               | 144          | 941689               | 196          | 942182               | 66           |
| 914554               | 187          | 940142               | 58           | 941690               | 196          | 942184               | 207          |
| 914556               | 187          | 940143               | 180          | 941695               | 70           | 942247               | 84           |
| 921642               | 72           | 940145               | 140          | 941696               | 129          | 942267               | 73           |
| 921643               | 72           | 940147               | 180          | 941744               | 165          | 942268               | 69           |
| 921781               | 143          | 940152               | 141          | 941761               | 84           | 942286               | 136          |
| 921814               | 71           | 940153               | 141          | 941762               | 84           | 942287               | 216          |
| <del>921828</del>    | 71           | 940154               | 141          | 941776               | 195          | 942290               | 212          |
| <del>921849</del>    | 71           | 940155               | 180          | 941795               | 60           | 942299               | 128          |
| 921860               | 71           | 940156               | 69           | 941806               | 209          | 942314               | 84           |
| 921862               | 71           | 940157               | 140          | 941831               | 176          | 942332               | 186          |
| 924050               | 105          | 940158               | 69           | 941840               | 195          | 942333               | 186          |
| 924060               | 105          | 940159               | 69           | 941844               | 185          | 942336               | 173          |
| 924062               | 105          | 940160               | 69           | 941857               | 70           | 942338               | 69           |
| 924064               | 105          | 940161               | 69           | 941878               | 183          | 942356               | 165          |
| 924066               | 105          | 940162               | 69           | 941904               | 173          | <del>942357</del>    | 165          |
| 924070               | 105          | 940175               | 142          | 941905               | 173          | 942385               | 172          |
| 924072               | 105          | 940176               | 140          | 941906               | 173          | 942400               | 215          |

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| 942402          | 55          | 943477          | 220         | 945408          | 121         | 946222          | 180         |
| 942410          | 179         | 943478          | 220         | 945414          | 46          | 946255          | 166         |
| 942421          | 218         | 943479          | 220         | 945415          | 212         | 946291          | 85          |
| 942458          | 222         | 943480          | 220         | 945444          | 46          | 946329          | 46          |
| 942524          | 69          | 943482          | 220         | 945467          | 152         | 946330          | 147         |
| 942529          | 69          | 943484          | 220         | 945474          | 111         | 946331          | 162         |
| 942542          | 215         | 943485          | 220         | 945477          | 187         | 946344          | 137         |
| 942547          | 69          | 943491          | 159         | 945477          | 187         | 946345          | 137         |
| 942566          | 113         | 943501          | 162         | 945479          | 187         | 946350          | 139         |
| 942574          | 172         | 943530          | 72          | 945481          | 187         | 946352          | 139         |
| 942598          | 165         | 943629          | 55          | 945490          | 187         | 946379          | 68          |
| 942603          | 179         | 943647          | 167         | 945497          | 185         | 946380          | 89          |
| 942604          | 179         | 943674          | 135         | 945499          | 185         | 946407          | 58          |
| 942605          | 179         | 943674          | 136         | 945502          | 185         | 946420          | 152         |
| 942610          | 218         | 943684          | 212         | 945504          | 185         | 946440          | 46          |
| 942668          | 207         | 943701          | 202         | 945506          | 185         | 946441          | 46          |
| 942670          | 207         | 943705          | 184         | 945509          | 185         | 946445          | 176         |
| 942672          | 207         | 943738          | 197         | 945542          | 137         | 946446          | 176         |
| 942679          | 207         | 943739          | 197         | 945543          | 215         | 946470          | 46          |
| 942723          | 185         | 943760          | 189         | 945544          | 165         | 946471          | 46          |
| 942767          | 179         | 943805          | 150         | 945557          | 216         | 946472          | 46          |
| 942803          | 73          | 943819          | 172         | 945588          | 113         | 946473          | 46          |
| 942810          | 215         | 944026          | 214         | 945589          | 113         | 946474          | 46          |
| 942844          | 172         | 944100          | 186         | 945592          | 113         | 946485          | 97          |
| 942866          | 162         | 944106          | 149         | 945606          | 176         | 946502          | 46          |
| 942878          | 66          | 944136          | 196         | 945611          | 215         | 946544          | 46          |
| 942879          | 67          | 944284          | 218         | 945626          | 162         | 946545          | 73          |
| 942914          | 148         | 944313          | 185         | 945627          | 71          | 946595          | 193         |
| 942915          | 194         | 944429          | 55          | 945647          | 103         | 946637          | 152         |
| 942921          | 220         | 944446          | 69          | 945672          | 74          | 946670          | 46          |
| 942934          | 165         | 944449          | 165         | 945673          | 165         | 946671          | 46          |
| 942992          | 185         | 944472          | 168         | 945676          | 152         | 946673          | 125         |
| 943000          | 207         | 944556          | 194         | 945683          | 96          | 946701          | 168         |
| 943033          | 171         | 944562          | 176         | 945698          | 69          | 946730          | 74          |
| 943121          | 216         | 944563          | 177         | 945703          | 67          | 946752          | 46          |
| 943144          | 74          | 944579          | 152         | 945717          | 192         | 946756          | 152         |
| 943318          | 185         | 944602          | 191         | 945718          | 192         | 946817          | 46          |
| 943319          | 185         | 944633          | 165         | 945719          | 192         | 946834          | 215         |
| 943320          | 185         | 944652          | 85          | 945733          | 176         | 946835          | 73          |
| 943321          | 185         | 944653          | 85          | 945734          | 215         | 946911          | 144         |
| 943322          | 171         | 944658          | 66          | 945780          | 192         | 946916          | 84          |
| 943349          | 171         | 944689          | 135         | 945872          | 165         | 946920          | 167         |
| 943350          | 171         | 944710          | 74          | 945884          | 136         | 946934          | 46          |
| 943353          | 202         | 944729          | 194         | 945988          | 137         | 946935          | 114         |
| 943361          | 177         | 944926          | 46          | 945989          | 152         | 947071          | 184         |
| 943393          | 72          | 944929          | 69          | 946007          | 152         | 947107          | 46          |
| 943394          | 72          | 944944          | 217         | 946008          | 139         | 947117          | 154         |
| 943395          | 72          | 944947          | 160         | 946035          | 136         | 947120          | 176         |
| 943407          | 191         | 944953          | 58          | 946048          | 177         | 947140          | 139         |
| 943409          | 172         | 944958          | 65          | 946094          | 86          | 947179          | 153         |
| 943467          | 189         | 944986          | 185         | 946109          | 137         | 947191          | 215         |
| 943469          | 220         | 945076          | 209         | 946149          | 152         | 947323          | 88          |
| 943470          | 220         | 945210          | 65          | 946173          | 46          | 947355          | 165         |
| 943471          | 220         | 945211          | 66          | 946175          | 127         | 947356          | 165         |
| 943472          | 220         | 945244          | 169         | 946177          | 80          | 947358          | 59          |
| 943473          | 220         | 945337          | 114         | 946178          | 113         | 947363          | 146         |
| 943474          | 220         | 945338          | 114         | 946214          | 162         | 947377          | 85          |
| 943475          | 220         | 945358          | 46          | 946219          | 216         | 947378          | 189         |
| 943476          | 220         | 945407          | 121         | 946220          | 96          | 947395          | 167         |

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| 947426               | 165          | 948570               | 138          | 949399               | 152          | 950020               | 81           |
| 947456               | 217          | 948571               | 162          | 949435               | 189          | 950021               | 81           |
| 947457               | 215          | 948576               | 166          | 949459               | 183          | 950022               | 81           |
| 947492               | 66           | 948577               | 166          | 949460               | 98           | 950023               | 81           |
| 947515               | 193          | 948592               | 176          | 949462               | 170          | 950024               | 81           |
| 947537               | 193          | 948593               | 176          | 949464               | 166          | 950025               | 81           |
| 947541               | 165          | 948594               | 176          | 949499               | 152          | 950026               | 81           |
| 947542               | 46           | 948599               | 176          | 949505               | 165          | 950027               | 81           |
| 947561               | 74           | 948606               | 105          | 949523               | 165          | 950028               | 81           |
| 947606               | 195          | 948616               | 225          | 949556               | 57           | 950029               | 81           |
| 947607               | 160          | 948645               | 124          | 949557               | 105          | 950033               | 81           |
| 947610               | 114          | 948647               | 81           | 949570               | 214          | 950034               | 81           |
| 947614               | 189          | 948685               | 129          | 949578               | 57           | 950035               | 81           |
| 947694               | 160          | 948702               | 225          | 949650               | 199          | 950044               | 81           |
| 947757               | 170          | 948707               | 162          | 949652               | 57           | 950045               | 81           |
| 947760               | 46           | 948727               | 83           | 949689               | 186          | 950046               | 81           |
| 947767               | 114          | 948746               | 57           | 949702               | 110          | 950047               | 81           |
| 947790               | 46           | 948794               | 132          | 949708               | 47           | 950048               | 81           |
| 947818               | 58           | 948813               | 165          | 949715               | 86           | 950049               | 81           |
| 947827               | 215          | 948823               | 165          | 949746               | 215          | 950050               | 81           |
| 947829               | 216          | 948834               | 139          | 949747               | 215          | 950051               | 81           |
| 947842               | 147          | 948835               | 139          | 949755               | 212          | 950059               | 81           |
| 947853               | 165          | 948836               | 139          | 949768               | 58           | 950110               | 82           |
| 947855               | 124          | 948871               | 177          | 949787               | 185          | 950113               | 82           |
| 947941               | 146          | 948878               | 58           | 949788               | 185          | 950143               | 82           |
| 947963               | 85           | 948880               | 165          | 949789               | 189          | 950144               | 82           |
| 947970               | 158          | 948890               | 155          | 949793               | 47           | 950145               | 82           |
| 947971               | 158          | 948902               | 123          | 949806               | 219          | 950146               | 82           |
| 947972               | 158          | 948932               | 105          | 949817               | 165          | 950147               | 82           |
| 948003               | 114          | 948951               | 98           | 949825               | 176          | 950158               | 82           |
| 948039               | 46           | 948967               | 216          | 949826               | 176          | 950162               | 82           |
| 948069               | 58           | 948971               | 139          | 949827               | 176          | 950197               | 82           |
| 948073               | 195          | 948999               | 185          | 949828               | 176          | 950217               | 82           |
| 948081               | 61           | 949020               | 195          | 949846               | 57           | 950223               | 82           |
| 948087               | 165          | 949027               | 213          | 949847               | 130          | 950255               | 82           |
| 948088               | 59           | 949044               | 85           | 949853               | 47           | 950352               | 151          |
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| 948180               | 114          | 949073               | 176          | 949867               | 161          | 950354               | 151          |
| 948211               | 225          | 949074               | 176          | 949869               | 177          | 950355               | 151          |
| 948217               | 46           | 949102               | 170          | 949870               | 184          | 950356               | 151          |
| 948222               | 210          | 949145               | 58           | 949872               | 186          | 950357               | 151          |
| 948241               | 198          | 949164               | 85           | 949873               | 177          | 950359               | 151          |
| 948315               | 165          | 949179               | 114          | 949874               | 124          | 950361               | 151          |
| 948332               | 139          | 949199               | 47           | 949886               | 69           | 950366               | 151          |
| 948336               | 47           | 949200               | 58           | 949888               | 57           | 950368               | 151          |
| 948345               | 85           | 949231               | 59           | 949894               | 57           | 950372               | 151          |
| 948356               | 46           | 949245               | 114          | 949895               | 107          | 950373               | 151          |
| 948360               | 176          | 949273               | 219          | 949902               | 225          | 950374               | 151          |
| 948371               | 146          | 949278               | 124          | 949909               | 189          | 950375               | 151          |
| 948386               | 113          | 949302               | 85           | 949921               | 161          | 950376               | 151          |
| 948387               | 85           | 949319               | 95           | 949937               | 161          | 950377               | 151          |
| 948396               | 85           | 949321               | 185          | 949948               | 66           | 950378               | 151          |
| 948436               | 59           | 949324               | 189          | 949997               | 215          | 950379               | 151          |
| 948439               | 101          | 949335               | 61           | 950003               | 81           | 950382               | 151          |
| 948477               | 113          | 949365               | 165          | 950004               | 81           | 950383               | 151          |
| 948532               | 146          | 949377               | 160          | 950007               | 81           | 950384               | 151          |
| 948556               | 165          | 949379               | 215          | 950011               | 81           | 950386               | 151          |
| 948560               | 217          | 949380               | 186          | 950013               | 81           | 950388               | 151          |
| 948569               | 138          | 949394               | 165          | 950015               | 81           | 950499               | 195          |



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| 950525               | 195          | 951672               | 151          | 952622               | 215          | 953102               | 105          |
| 950533               | 195          | 951774               | 157          | 952623               | 215          | 953103               | 105          |
| 950543               | 195          | 951925               | 198          | 952624               | 215          | 953104               | 105          |
| 950544               | 195          | 951935               | 198          | 952625               | 215          | 953105               | 105          |
| 950549               | 195          | 951944               | 198          | 952626               | 215          | 953107               | 105          |
| 950562               | 195          | 951946               | 198          | 952627               | 215          | 953109               | 105          |
| 950566               | 195          | 951947               | 198          | 952628               | 215          | 953111               | 105          |
| 950574               | 195          | 951950               | 198          | 952629               | 215          | 953115               | 105          |
| 950578               | 195          | 951951               | 198          | 952630               | 215          | 953224               | 107          |
| 950586               | 195          | 951954               | 198          | 952631               | 215          | 953226               | 107          |
| 950588               | 195          | 951955               | 198          | 952632               | 215          | 953229               | 107          |
| 950592               | 195          | 951956               | 198          | 952633               | 215          | 953236               | 107          |
| 950600               | 195          | 951957               | 198          | 952634               | 215          | 953241               | 107          |
| 950612               | 195          | 951958               | 198          | 952635               | 215          | 953243               | 107          |
| 950613               | 195          | 951959               | 198          | 952636               | 215          | 953245               | 107          |
| 950619               | 195          | 951960               | 198          | 952637               | 215          | 953249               | 107          |
| 950625               | 195          | 951961               | 198          | 952638               | 215          | 953256               | 107          |
| 950628               | 195          | 951963               | 198          | 952639               | 215          | 953257               | 107          |
| 950643               | 195          | 951965               | 198          | 952640               | 215          | 953259               | 107          |
| 950645               | 195          | 951967               | 198          | 952641               | 215          | 953261               | 107          |
| 950650               | 195          | 951968               | 198          | 952642               | 215          | 953267               | 107          |
| 950659               | 195          | 951969               | 198          | 952643               | 215          | 953272               | 107          |
| 950675               | 195          | 951970               | 198          | 952733               | 212          | <del>953277</del>    | 107          |
| 950677               | 195          | 951971               | 198          | 952737               | 212          | <del>953280</del>    | 107          |
| 950679               | 195          | 951972               | 198          | 952991               | 105          | 953287               | 107          |
| 950681               | 195          | 951973               | 198          | 952993               | 105          | 953293               | 107          |
| 950683               | 195          | 951974               | 198          | 952995               | 105          | 953316               | 107          |
| 950711               | 195          | 951975               | 198          | 952997               | 105          | <del>953317</del>    | 107          |
| 950887               | 101          | 951976               | 198          | <del>952998</del>    | 105          | <del>953345</del>    | 107          |
| 950889               | 101          | 951977               | 198          | 953000               | 105          | 953348               | 107          |
| 950891               | 101          | 951978               | 198          | 953001               | 105          | <del>953351</del>    | 107          |
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| 951078               | 185          | 951981               | 198          | 953032               | 105          | 953357               | 107          |
| 951079               | 185          | 951982               | 198          | 953035               | 105          | 953452               | 107          |
| 951080               | 185          | 951983               | 198          | 953040               | 105          | 953455               | 107          |
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| 951085               | 187          | 951988               | 198          | 953043               | 105          | 953486               | 107          |
| 951086               | 187          | 951989               | 198          | 953044               | 105          | 953488               | 107          |
| 951087               | 187          | <del>951990</del>    | 198          | 953045               | 105          | 953490               | 107          |
| 951186               | 217          | 951991               | 198          | 953047               | 105          | 953492               | 107          |
| 951187               | 217          | 951994               | 198          | 953049               | 105          | 953494               | 107          |
| 951188               | 217          | 951999               | 198          | 953051               | 105          | 953495               | 107          |
| 951189               | 217          | 952001               | 198          | 953053               | 105          | <del>953496</del>    | 107          |
| 951190               | 217          | 952002               | 198          | 953055               | 105          | <del>953497</del>    | 107          |
| 951191               | 217          | 952008               | 198          | 953058               | 105          | 953499               | 107          |
| 951192               | 217          | 952021               | 198          | 953059               | 105          | 953504               | 107          |
| 951193               | 217          | 952025               | 198          | <del>953064</del>    | 105          | 953505               | 107          |
| 951194               | 217          | 952050               | 198          | 953067               | 105          | 953517               | 107          |
| 951195               | 217          | 952052               | 198          | <del>953069</del>    | 105          | 953519               | 107          |
| 951207               | 131          | 952458               | 200          | 953071               | 105          | 953521               | 107          |
| 951354               | 104          | 952481               | 200          | 953073               | 105          | 953522               | 107          |
| 951662               | 193          | 952495               | 200          | 953075               | 105          | 953524               | 107          |
| 951666               | 193          | 952496               | 200          | 953077               | 105          | 953525               | 107          |
| 951667               | 193          | 952523               | 200          | 953080               | 105          | 953526               | 107          |
| 951668               | 193          | 952529               | 200          | 953082               | 105          | 953527               | 107          |
| 951669               | 193          | 952530               | 200          | 953096               | 105          | 953531               | 107          |
| 951670               | 193          | 952573               | 201          | 953098               | 105          | 953532               | 107          |



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| 953536               | 107          | 955375               | 58           | 955541               | 69           | 955677               | 71           |
| 953542               | 107          | 955376               | 58           | 955542               | 69           | 955706               | 71           |
| 953575               | 107          | 955377               | 58           | 955543               | 69           | 955708               | 71           |
| 953577               | 107          | 955378               | 58           | 955544               | 69           | 955724               | 71           |
| 953579               | 107          | 955382               | 58           | 955546               | 69           | 955725               | 71           |
| 955116               | 95           | 955384               | 59           | 955548               | 69           | 955726               | 71           |
| 955125               | 95           | 955385               | 59           | 955549               | 69           | 955732               | 71           |
| 955126               | 95           | 955386               | 59           | 955550               | 69           | 955735               | 71           |
| 955129               | 95           | 955387               | 59           | 955551               | 69           | 955737               | 71           |
| 955131               | 95           | 955388               | 59           | 955552               | 69           | 955738               | 71           |
| 955132               | 95           | 955389               | 59           | 955553               | 69           | 955739               | 71           |
| 955133               | 95           | 955392               | 59           | 955554               | 69           | 955757               | 71           |
| 955140               | 95           | 955393               | 59           | 955555               | 69           | 955778               | 130          |
| 955142               | 95           | 955394               | 59           | 955556               | 69           | 955779               | 130          |
| 955154               | 95           | 955395               | 59           | 955557               | 69           | 955780               | 130          |
| 955161               | 95           | 955396               | 59           | 955557               | 224          | 955781               | 130          |
| 955163               | 95           | 955397               | 59           | 955558               | 69           | 955782               | 130          |
| 955164               | 95           | 955398               | 59           | 955559               | 69           | 955785               | 130          |
| 955167               | 95           | 955399               | 59           | 955560               | 69           | 955787               | 130          |
| 955174               | 95           | 955400               | 59           | 955561               | 70           | 955789               | 131          |
| 955245               | 58           | 955401               | 59           | 955562               | 70           | 955792               | 144          |
| 955248               | 58           | 955402               | 59           | 955563               | 70           | 955793               | 144          |
| 955254               | 58           | 955405               | 59           | 955564               | 70           | 955794               | 144          |
| 955260               | 58           | 955407               | 59           | 955565               | 70           | 955795               | 144          |
| 955269               | 58           | 955409               | 59           | 955566               | 70           | 955800               | 131          |
| 955271               | 58           | 955412               | 59           | 955567               | 70           | 955801               | 130          |
| 955272               | 58           | 955413               | 59           | 955568               | 70           | 955802               | 131          |
| 955273               | 58           | 955414               | 59           | 955569               | 70           | 955803               | 130          |
| 955274               | 58           | 955415               | 59           | 955571               | 70           | 955804               | 131          |
| 955275               | 58           | 955418               | 59           | 955572               | 70           | 955805               | 131          |
| 955281               | 58           | 955510               | 69           | 955575               | 70           | 955806               | 130          |
| 955282               | 58           | 955511               | 69           | 955576               | 70           | 955807               | 131          |
| 955284               | 58           | 955512               | 69           | 955577               | 70           | 955808               | 131          |
| 955285               | 58           | 955513               | 69           | 955577               | 223          | 955817               | 133          |
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| 955288               | 58           | 955515               | 69           | 955579               | 70           | 955822               | 146          |
| 955289               | 58           | 955516               | 69           | 955580               | 70           | 955823               | 145          |
| 955295               | 58           | 955517               | 69           | 955581               | 70           | 955825               | 140          |
| 955297               | 58           | 955518               | 69           | 955582               | 70           | 955826               | 140          |
| 955299               | 58           | 955519               | 69           | 955583               | 70           | 955827               | 140          |
| 955300               | 58           | 955523               | 69           | 955586               | 70           | 955828               | 140          |
| 955302               | 58           | 955524               | 69           | 955587               | 70           | 955829               | 140          |
| 955304               | 58           | 955525               | 69           | 955589               | 70           | 955830               | 140          |
| 955336               | 58           | 955526               | 69           | 955590               | 70           | 955834               | 145          |
| 955338               | 58           | 955527               | 69           | 955591               | 70           | 955835               | 145          |
| 955349               | 58           | 955528               | 69           | 955592               | 70           | 955838               | 145          |
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| 955362               | 58           | 955529               | 69           | 955598               | 70           | 955844               | 141          |
| 955363               | 58           | 955530               | 69           | 955604               | 70           | 955846               | 141          |
| 955364               | 58           | 955531               | 69           | 955612               | 70           | 955847               | 141          |
| 955365               | 58           | 955532               | 69           | 955636               | 71           | 955848               | 141          |
| 955366               | 58           | 955533               | 69           | 955638               | 71           | 955849               | 141          |
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| 955369               | 58           | 955536               | 69           | 955654               | 71           | 955852               | 141          |
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| 955890               | 165          | 956096               | 79           | 959194               | 84           | 959821               | 70           |
| 955891               | 165          | 956103               | 79           | 959197               | 84           | 959823               | 70           |
| 955892               | 165          | 956105               | 79           | 959202               | 84           | 959825               | 70           |
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| 955894               | 165          | 956151               | 80           | 959214               | 84           | 959829               | 70           |
| 955895               | 165          | 956162               | 80           | 959219               | 84           | 959834               | 70           |
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| 955898               | 165          | 956166               | 80           | 959222               | 84           | 959856               | 70           |
| 955899               | 165          | 956167               | 80           | 959223               | 84           | 959885               | 71           |
| 955900               | 165          | 956170               | 80           | 959224               | 84           | 959904               | 71           |
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| 955906               | 165          | 956233               | 80           | 959231               | 84           | 960143               | 165          |
| 955907               | 165          | 956244               | 80           | 959236               | 84           | 960144               | 165          |
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| 955946               | 180          | 956584               | 89           | 959265               | 84           | 961126               | 140          |
| 955947               | 180          | 956585               | 89           | 959266               | 84           | 961169               | 166          |
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