

REMACHES TUDELA
®

RT10
®

**10 AÑOS CONTIGO
10 YEARS WITH YOU**



**TUERCAS INSERTABLES
SELF CLINCH NUTS**



**PERNOS INSERTABLES
SELF CLINCH STUDS**



**SEPARADORES INSERTABLES
THREADED STANDOFFS**



**PERNOS SOLDABLES
WELDING STUDS**

**PRODUCTOS
INSERTABLES
CLINCH PRODUCTS**

Quiénes somos / Who we are

Llevamos más de **10 años** en el sector, donde nuestra experiencia nos avala por el **buen hacer y el camino recorrido** por todos y cada uno de los colaboradores y trabajadores que forman o han formado parte de este proyecto. Gracias a cada uno de ellos, hoy por hoy somos **REMACHES TUDELA**.

We have been in the sector for more than 10 years. Our experience is backed up by the good work and the road travelled by each and every one of the collaborators and workers who form or have formed part of this project. Thanks to each and every one of them, today we are **REMACHES TUDELA**.



Fabricación propia / Our factory

Contamos con dos plantas productiva distribuidas por todo el mundo con más de 22.000 m2 de superficie para seguir creando las gamas de productos más variadas y exigentes del mercado.

Nuestras fábricas están preparadas para seguir cuidando el medioambiente, siguiendo estrictamente cada una de las normativas implantadas por el Gobierno vigente.

La generación de residuos es mínima por lo que su destrucción no supone problema alguno..

We have two production plants distributed around the world with more than 22,000 m2 of surface area to continue creating the most varied and demanding product ranges on the market.

Our factories are prepared to continue caring for the environment, strictly following each of the regulations implemented by the Government in force.

The waste generation is minimal, so its destruction is not a problem at all.





Productos de Calidad / Quality Products

Disponemos de sofisticados sistemas de calidad para controlar la trazabilidad de nuestros productos desde la materia prima hasta la entrega del producto terminado.

Disponemos del certificado de calidad ISO 9001:2015 y cumplimos con todos los estándares Europeos de calidad.

We have sophisticated quality systems to control the traceability of our products from raw material to finished product.

We are ISO 9001:2015 certified and comply with all European quality standards.

| PRODUCTO PRODUCT | PÁG PÁG | |
|---|---|----|
|  | TUERCAS INSERTABLES SELF CLINCH NUTS | 5 |
|  | PERNOS INSERTABLES SELF CLINCH STUDS | 13 |
|  | SEPARADORES INSERTABLES THREADED STANDOFFS | 23 |
|  | PERNOS SOLDABLES WELDING STUDS | 31 |

Certificados Calidad / Quality Certificates



ISO 9001:2015



ISO 14001:2015



ISO 16949:2016



ACERO
STEEL

INOX
ST. STEEL

INOX
ST. STEEL

tuercas insertables self clinch nuts



**Materiales
Materials**



**Acero al carbono
cincado**
Carbon steel zinc
plated



**Acero Inox. Serie
300 pasivado**
300 series st.
steel passivated



**Acero Inox Endurecido
pasivado**
Hardening grade st.
steel passivated



**Tuercas según material de instalación
Nuts according to installation material**



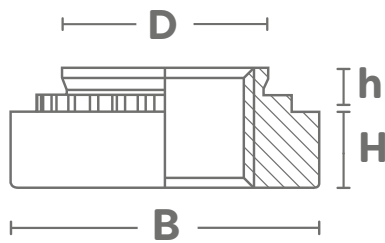
Material Chapa
Sheet material



Disponible en
Available in



**Especificaciones
Specifications**



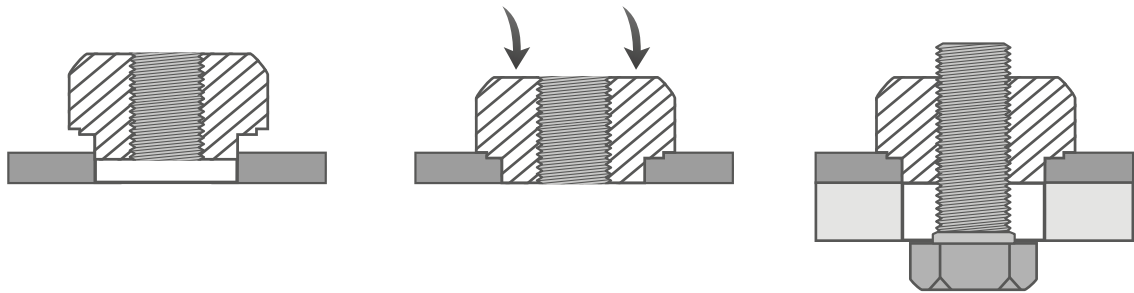
B Diámetro del cuerpo
Body diameter

D Diámetro de instalación
Installation diameter


h Altura de inserción
Insertion height

H Altura del Cuerpo
Body height

Aplicación
Aplicaton



Glosario
Glossary

| | |
|---|---|
|  THREAD | Rosca Thread |
|  min mm. | Espesor mínimo de chapa Minimun grip range sheet |
|  mm. | Diametro del agujero Hole diameter |
|  min mm. | Espacio mínimo al borde Minimun space to edge |
|  kN | Fuerza de instalacion Installation force |
|  N | Resistencia a ser expulsada Resistance to expulsion |
|  Nm | Par de apriete Tightening torque |

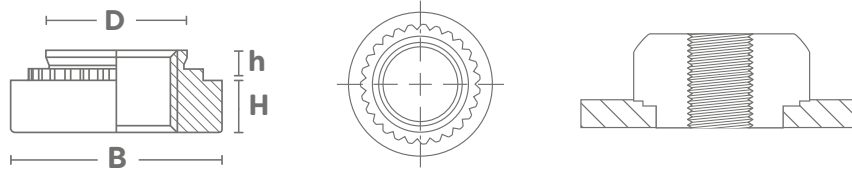
ACERO
STEEL

INOX
ST. STEEL




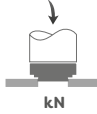

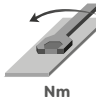
| Tipo Type | Material Material | Acabado Finished | Uso Working |
|--------------|---|---|--------------------|
| ST ST | ACERO AL CARBONO CARBON STEEL | CINCADO ZINC CLEAR | ≤80HRB ≤ 80 HRB |
| A2 A2 | ACERO INOX. SERIE 300 300 SERIES ST. STEEL | PASIVADO ASTM A380 PASIVATED ASTM A380 | ≤70HRB ≤ 70 HRB |

ROSCA / THREAD: 6g ISO Metric



| THREAD | Código Acero Carb. Carbon Steel | Code Acero Inox. S300 St. Steel S300 | h mm. | min mm. | min mm. | D mm. | B mm. | H mm. | 8 | |
|--------------------|---------------------------------------|--|----------|------------|------------|----------|----------|----------|------|-------|
| M3 x0,5 | TINSM3AC-0 | TINSM3I2-0 | 0,76 | 0,8 | | | | | | |
| | TINSM3AC-1 | TINSM3I2-1 | 0,97 | 1,0 | 4,25 | 4,8 | 4,22 | 6,3 | 1,55 | 8.000 |
| | TINSM3AC-2 | TINSM3I2-2 | 1,37 | 1,4 | | | | | | |
| M4 x0,7 | TINSM4AC-0 | TINSM4I2-0 | 0,76 | 0,8 | | | | | | |
| | TINSM4AC-1 | TINSM4I2-1 | 0,97 | 1,0 | 5,4 | 6,9 | 5,38 | 7,9 | 2,05 | 4.000 |
| | TINSM4AC-2 | TINSM4I2-2 | 1,37 | 1,4 | | | | | | |
| M5 x0,8 | TINSM5AC-0 | TINSM5I2-0 | 0,76 | 0,8 | | | | | | |
| | TINSM5AC-1 | TINSM5I2-1 | 0,97 | 1,0 | 6,4 | 7,1 | 6,38 | 8,7 | 2,05 | 4.000 |
| | TINSM5AC-2 | TINSM5I2-2 | 1,37 | 1,4 | | | | | | |
| M6 x1,0 | TINSM6AC-0 | TINSM6I2-0 | 1,15 | 1,2 | | | | | | |
| | TINSM6AC-1 | TINSM6I2-1 | 1,37 | 1,4 | 8,75 | 8,6 | 8,72 | 11,05 | 4,08 | 1.000 |
| | TINSM6AC-2 | TINSM6I2-2 | 2,21 | 2,3 | | | | | | |
| M8 x1,25 | TINSM8AC-0 | TINSM8I2-0 | 1,37 | 1,4 | | | | | | |
| | TINSM8AC-1 | TINSM8I2-1 | 2,21 | 2,3 | 10,5 | 9,7 | 10,44 | 12,65 | 5,5 | 600 |
| M10 x1,5 | TINSM8AC-2 | TINSM8I2-2 | 2,21 | 2,3 | | | | | | |
| | TINSM10AC-0 | TINSM10I2-0 | 3,05 | 3,2 | 14,0 | 13,5 | 13,92 | 17,35 | 7,5 | 250 |

DATOS TÉCNICOS INSTALACIÓN GENERAL
TECHNICAL DATAS IN GENERAL INSTALLATION

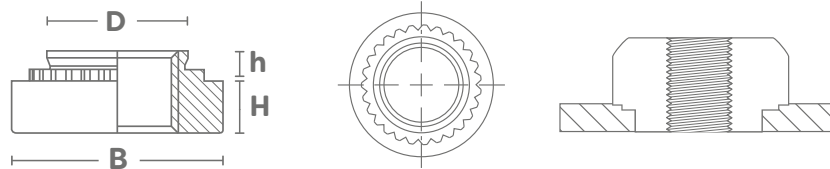
| THREAD | LENGHT CODE | ACERO STEEL | | | 5052-H34 ALUMINIO | | |
|------------|-------------|--|---|--|---|---|--|
| | |  kN |  N |  Nm |  kN |  N |  Nm |
| M3 | 0 | | 470 | 1.47 | | 275 | 0.9 |
| | 1 | 11.2 - 15.6 | 550 | 1.70 | 6.7 - 8.9 | 390 | 1.1 |
| | 2 | | 1010 | 2.03 | | 745 | 1.4 |
| M4 | 0 | | 490 | 2.95 | | 290 | 2.3 |
| | 1 | 18 - 27 | 645 | 4.00 | 11.2 - 13.4 | 465 | 2.6 |
| | 2 | | 1250 | 5.10 | | 965 | 4.0 |
| M5 | 0 | | 530 | 3.60 | | 290 | 3.0 |
| | 1 | 18-38 | 800 | 4.50 | 11.2 - 15.6 | 475 | 3.6 |
| | 2 | | 1112 | 6.80 | | 1180 | 4.7 |
| M6 | 0 | | 1380 | 13.0 | | 965 | 7.7 |
| | 1 | 27-36 | 1760 | 17.0 | 18 - 32 | 1570 | 9.6 |
| | 2 | | 1760 | 17.0 | | 1570 | 9.6 |
| M8 | 1 | | | 18.7 | | | |
| | 2 | 27-36 | 1870 | 20.3 | 18 - 32 | 1560 | 13.0 |
| M10 | 1 | | | 32.7 | | | |
| | 2 | 32-50 | 2020 | 36.2 | 22 - 36 | 1750 | 32.7 |

INOX
ST. STEEL



| Tipo Type | Material Material | Acabado Finished | Uso Working |
|--------------|---|---|----------------------|
| A2E A2E | ACERO INOX. ENDURECIDO HARDENING GRADE ST. STEEL | PASIVADO ASTM A380 PASIVATED ASTM A380 | ≤ 88 HRB ≤ 88 HRB |





ROSCA / THREAD: 6g ISO Metric



| THREAD | Código Code | h mm. | min mm. | min mm. | min mm. | D mm. | B mm. | H mm. | |
|-------------------|-------------|----------|------------|------------|------------|----------|----------|----------|-------|
| M3 x0,5 | TINSM3I2E-0 | 0,76 | 0,8 - 1,0 | | | | | | 8.000 |
| | TINSM3I2E-1 | 0,97 | 1,0 | 4,25 | 4,8 | 4,22 | 6,3 | 1,5 | |
| | TINSM3I2E-2 | 1,37 | 1,4 | | | | | | |
| M4 x0,7 | TINSM4I2E-0 | 0,76 | 0,8 - 1,0 | | | | | | 4.000 |
| | TINSM4I2E-1 | 0,97 | 1,0 | 5,4 | 6,9 | 5,38 | 7,9 | 2,0 | |
| | TINSM4I2E-2 | 1,37 | 1,4 | | | | | | |
| M5 x0,8 | TINSM5I2E-0 | 0,76 | 0,8 - 1,0 | | | | | | 4.000 |
| | TINSM5I2E-1 | 0,97 | 1,0 | 6,4 | 7,1 | 6,38 | 8,7 | 2,0 | |
| | TINSM5I2E-2 | 1,37 | 1,4 | | | | | | |
| M6 x1,0 | TINSM6I2E-1 | 1,37 | 1,4 | 8,75 | 8,6 | 8,72 | 11,1 | 4,1 | 1.000 |

DATOS TÉCNICOS INSTALACIÓN GENERAL
TECHNICAL DATAS IN GENERAL INSTALLATION

ACERO INOXIDABLE
STAINLESS STEEL

|  THREAD | LENGHT CODE |  kN |  N |  Nm |
|---|----------------|---|--|---|
| M3 | 0 | 13 - 22 | 570 | 1.55 |
| | 1 | | 720 | 1.90 |
| | 2 | | 1285 | 2.00 |
| M4 | 0 | 22 - 31 | 640 | 3.35 |
| | 1 | | 790 | 4.15 |
| | 2 | | 1595 | 5.05 |
| M5 | 0 | 26 - 40 | 790 | 3.90 |
| | 1 | | 1020 | 5.05 |
| | 2 | | 1770 | 6.75 |
| M6 | 1 | 40 - 48 | 1990 | 16.5 |

ACERO
STEEL

INOX
ST. STEEL

INOX
ST. STEEL

pernos insertables self clinch studs



**Materiales
Materials**



**Tipo de Cabeza
Head Type**

**Cabeza embutida
Flush Head**

**Cabeza no embutida
Non Flush Head**



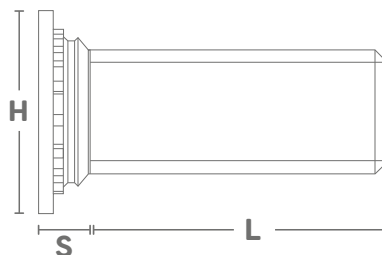
Disponible en
Available in



**Pernos según material de instalación
Studs according to installation material**

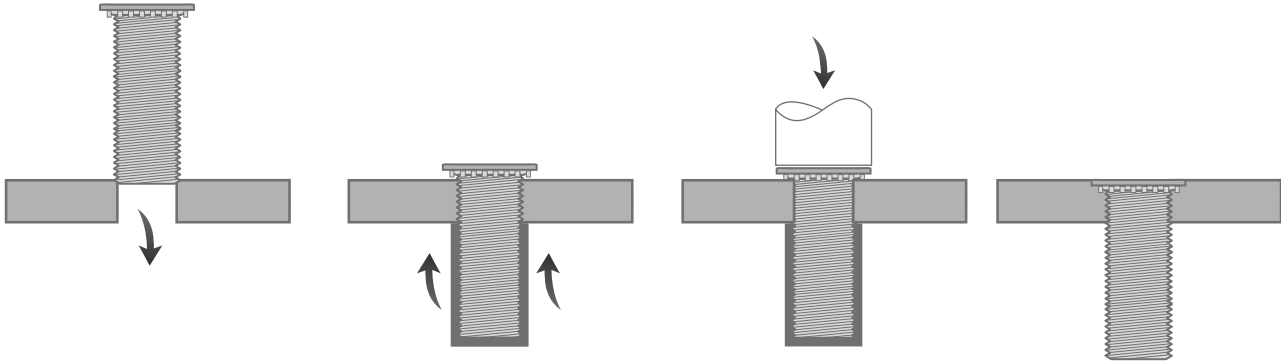
| | | | |
|--------------------------------------|--|--|--|
| Material Chapa Sheet material | | | |
| Disponible en Available in | | | |

**Especificaciones
Specifications**










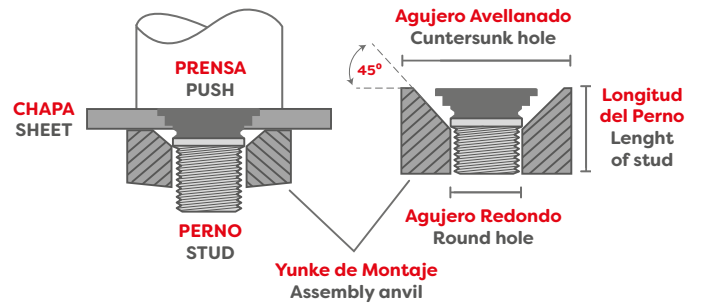
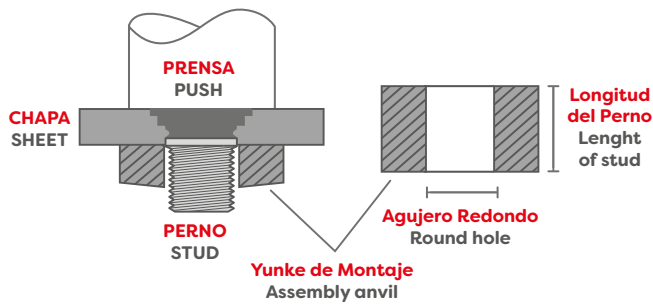
| | |
|----------|--|
| L | Longitud del cuerpo Body diameter |
| H | Diámetro de la cabeza Head diameter |
| S | Espesor de la cabeza Head thickness |

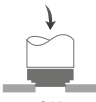
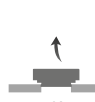
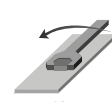
**Aplicación
Aplicaton**



**Glosario
Glossary**

| | |
|---|---|
|  THREAD | Rosca Thread |
|  min mm. | Espesor mínimo de chapa Minimum grip range sheet |
|  mm. | Diametro del agujero Hole diameter |
|  min mm. | Espacio mínimo al borde Minimum space to edge |
|  kN | Fuerza de instalacion Installation force |
|  N | Resistencia a ser expulsada Resistance to expulsion |
|  Nm | Par de apriete Tightening torque |



| THREAD | MATERIAL DE CHAPA Y GROSOR SHEET MATERIAL & THICKNESS | Agujero Redondo Round hole mm. | Agujero Avellanado Countersunk hole mm. |  kN  N  Nm | | |
|-------------|--|--------------------------------------|---|---|------|------|
| | | | | | | |
| M2.5 | ALUMINIO ALUMINIUM 1.6 mm | 2,5 | 3,1 | 8.9 | 625 | 0.9 |
| | ACERO STEEL 1.5 mm | | | 11.1 | 1025 | 0.9 |
| M3 | ALUMINIO ALUMINIUM 1.6 mm | 3,0 | 3,6 | 12.9 | 890 | 1.6 |
| | ACERO STEEL 1.5 mm | | | 14.7 | 1240 | 1.6 |
| M4 | ALUMINIO ALUMINIUM 1.6 mm | 4,0 | 4,6 | 22.3 | 1290 | 2.8 |
| | ACERO STEEL 1.5 mm | | | 28.9 | 1780 | 4.1 |
| M5 | ALUMINIO ALUMINIUM 1.6 mm | 5,0 | 5,6 | 24.5 | 1470 | 3.4 |
| | ACERO STEEL 1.5 mm | | | 33.4 | 2440 | 6.4 |
| M6 | ALUMINIO ALUMINIUM 2.4 mm | 6,0 | 6,6 | 28.9 | 2000 | 7.2 |
| | ACERO STEEL 2.2 mm | | | 29.8 | 3110 | 11.2 |
| M8 | ALUMINIO ALUMINIUM 2.4 mm | 8,0 | - | 29 | 2440 | 11.2 |
| | ACERO STEEL 2.2 mm | | | 44.5 | 3780 | 19.1 |

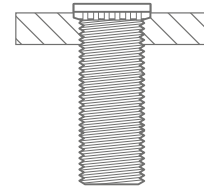
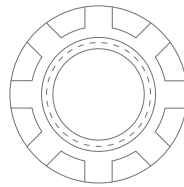
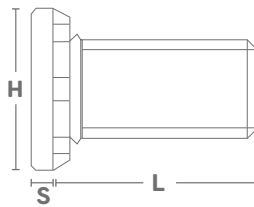
ACERO
STEEL

INOX
ST. STEEL




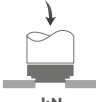

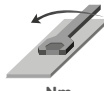
| Tipo Type | Material | Acabado Finished | Uso Working |
|--------------|--|---|---------------------|
| ST ST | ACERO AL CARBONO CARBON STEEL | CINCADO ZINC CLEAR | ≤80 HRB ≤ 80 HRB |
| A2 A2 | ACERO INOX SERIE 300 300 SERIES STAINLESS STEEL | PASIVADO ASTM A380 PASIVATED ASTM A380 | ≤70 HRB ≤ 70 HRB |

ROSCA / THREAD: 6g ISO Metric



Código Code
*xx = L
Ejemplo/Example: 03M25**06**ST

| THREAD | Código Code | | L mm. | H mm. | S mm. | mm. | min. mm. | min. mm. | |
|-------------------|-----------------------------|------------------------------------|----------------------------------|----------|----------|-----|-------------|-------------|-------|
| | Acero Carb. Carbon Steel | Acero Inox. S300 St. Steel S300 | | | | | | | |
| M3 x0,5 | PINSM3xxAC-HFE | PINSM3xxINOX-HFE | 6-8 | 4,5 | 0,64 | 3,0 | 5,6 | 0,51 | 2.000 |
| | | | 10-12-15-18 | | | | | | 1.000 |
| M4 x0,7 | PINSM4xxAC-HFE | PINSM4xxINOX-HFE | 10-12-15-18-20 22-25-28-30 | 5,8 | 0,64 | 4,0 | 7,2 | 0,51 | 1.000 |
| | | | 35-38 | | | | | | 500 |
| M5 x0,8 | PINSM5xxAC-HFE | PINSM5xxINOX-HFE | 10-12-15-18-20-22 25-28-30-35 | 6,4 | 0,64 | 5,0 | 7,2 | 0,51 | 1.000 |
| | | | 38 | | | | | | 5.000 |

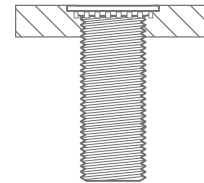
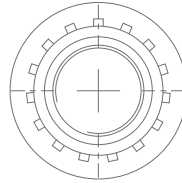
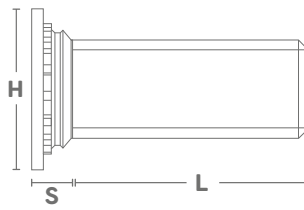
|  THREAD | MATERIAL DE CHAPA Y GROSOR SHEET MATERIAL & THICKNESS mm | Par de apriete máximo Maximun tightening torque Nm | Dureza de la Chapa Sheet Hardness HRB |  kN |  N |  Nm |
|---|---|---|--|---|--|---|
| | | | | | | |
| M3 | ACERO STEEL 0.6 | 0.74 | 52 | 6.7 | 290 | 1.0 |
| | ALUMINIO ALUMINIUM 0.5 | | | 5.3 | 190 | 0.6 |
| M4 | ACERO STEEL 0.6 | 1.70 | 52 | 13.4 | 495 | 2.5 |
| | ALUMINIO ALUMINIUM 0.5 | | | 9.8 | 245 | 0.7 |
| M5 | ACERO STEEL 0.6 | 3.50 | 52 | 17.8 | 665 | 2.9 |
| | ALUMINIO ALUMINIUM 0.5 | | | 13.4 | 265 | 1.2 |

INOX
ST. STEEL



| Tipo Type | Material Material | Acabado Finished | Uso Working |
|-----------|---|---------------------|-------------|
| A2E | ACERO INOXIDABLE ENDURECIDO SERIE 400 | PASIVADO ASTM A380 | ≤92 HRB |
| A2E | HARDENING GRADE 400 SERIES STAINLESS STEEL | PASIVATED ASTM A380 | ≤ 92 HRB |

ROSCA / THREAD: 6g ISO Metric




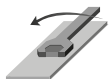


Código Code

*xx = L

Ejemplo/Example: 03M0306A2E

| THREAD | Código Code | L mm. | H mm. | S mm. | mm. | min. mm. | min. mm. | |
|-------------------|---------------|------------------------------|-------|-------|-----|----------|----------|-------|
| M3 x0,5 | PINSM3xxINOXE | 6-8 | 4,6 | 2,1 | 3,0 | 5,6 | 1 - 2,4 | 2.000 |
| | | 10-12-15-18-20-25 | | | | | | 1.000 |
| M4 x0,7 | PINSM4xxINOXE | 6-8-10-12-15 18-20-25-30 | 5,9 | 2,4 | 4,0 | 7,2 | 1 - 2,4 | 1.000 |
| | | 35 | | | | | | 500 |
| M5 x0,8 | PINSM5xxINOXE | 8-10-12-15-18 20-25-30-35 | 6,5 | 2,7 | 5,0 | 7,2 | 1 - 2,4 | 1.000 |
| | | | | | | | | 500 |

|  THREAD | MATERIAL DE CHAPA Y GROSOR SHEET MATERIAL & THICKNESS mm | Par de apriete máximo Maximun tightening torque Nm | Dureza de la Chapa Sheet Hardness HRB |  kN |  N |  Nm | PULL THRU N |
|---|---|---|--|--|--|---|-----------------------|
| M3 | ACERO INOXIDABLE 1.5 STAINLESS STEEL 1.5 | 0.9 | 92 | 40 | 3290 | 1.7 | 3510 |
| M4 | ACERO INOXIDABLE 1.5 STAINLESS STEEL 1.5 | 2.1 | 92 | 50 | 4400 | 6.4 | 7960 |
| M5 | ACERO INOXIDABLE 1.5 STAINLESS STEEL 1.5 | 4.3 | 92 | 53 | 4850 | 10.5 | 9980 |

ACERO
STEEL

INOX
ST. STEEL

ALUMINIO
ALUMINIUM

separadores insertables threaded standoffs



Materiales
Materials



ACERO
STEEL
Acero
Steel



INOX
ST. STEEL
Acero Inox
St. Steel

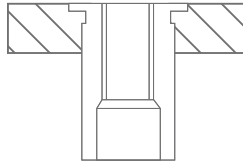


ALUMINIO
ALUMINIUM
Aluminio
Aluminium

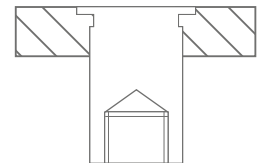


Tipo de Rosca
Head Type

Rosca Pasante
Thru-Hole



Rosca Ciega
Blind-Hole



Disponible en
Available in

ACERO
STEEL

INOX
ST. STEEL

ALUMINIO
ALUMINIUM

ACERO
STEEL

INOX
ST. STEEL

ALUMINIO
ALUMINIUM

Separadores según material de instalación
Threaded Standoffs according to installation material



Material Chapa
Sheet material

ACERO
STEEL

ALUMINIO
ALUMINIUM



Disponible en
Available in

ACERO
STEEL

INOX
ST. STEEL

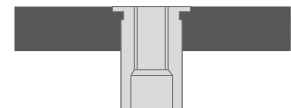
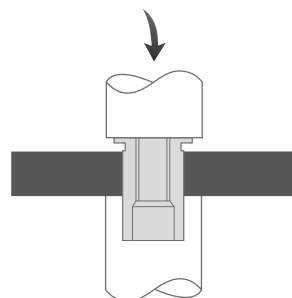
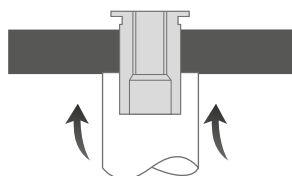
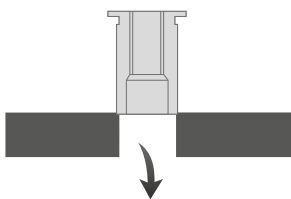
ALUMINIO
ALUMINIUM

ACERO
STEEL

INOX
ST. STEEL

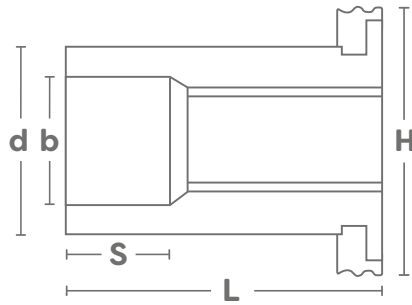
ALUMINIO
ALUMINIUM

Aplicación
Aplicaton



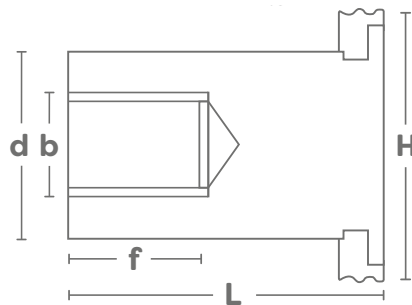
**Especificaciones
Specifications**

**Rosca Pasante
Thru-Hole**



| | |
|----------|--|
| d | Diámetro exterior Outer diameter |
| b | Diámetro interior Outer diameter |
| S | Longitud sin roscar Non threaded lenght |
| L | Longitud del cuerpo Body diameter |
| H | Diámetro de la cabeza Head diameter |

**Rosca Ciega
Blind-Hole**



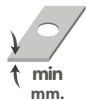
| | |
|----------|--|
| d | Diámetro exterior Outer diameter |
| b | Diámetro interior Outer diameter |
| f | Longitud roscada Threaded lenght |
| L | Longitud del cuerpo Body diameter |
| H | Diámetro de la cabeza Head diameter |

**Glosario
Glossary**



THREAD

**Rosca
Thread**



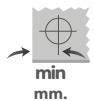
min
mm.

**Espesor mínimo de chapa
Minimun grip range sheet**



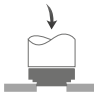
mm.

**Diametro del agujero
Hole diameter**



min
mm.

**Espacio mínimo al borde
Minimun space to edge**



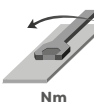
kN

**Fuerza de instalacion
Installation force**



N

**Resistencia a ser expulsada
Resistance to expulsion**



Nm

**Par de apriete
Tightening torque**

ACERO
STEEL

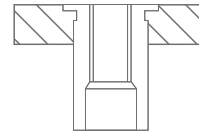
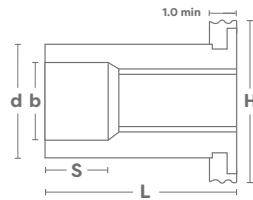
INOX
ST. STEEL

ALUMINIO
ALUMINIUM




| Tipo Type | Material Material | Acabado Finished | Uso Working |
|--------------|--|---|----------------------|
| STO | ACERO AL CARBONO CARBON STEEL | CINCADO ZINC PLATED | ≤ 80 HRB ≤ 80 HRB |
| A2O | ACERO INOX. SERIE 303 303 STAINLESS STEEL | PASIVADO ASTM A380 PASIVATED ASTM A380 | ≤ 70 HRB ≤ 70 HRB |
| ALO | ALUMINIO 7075-T6 7075-T6 ALUMINIUM | PULIDO POLISHED | ≤ 50 HRB ≤ 50 HRB |



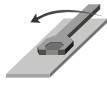

ROSCA / THREAD: 6g ISO Metric






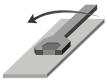

Código Code
*xx = L
Ejemplo/Example: 04M0306STO

| THREAD | Código Code | | | L mm. | mm. | min mm. | min. mm. | d mm. | b mm. | S mm. | H mm. |  |
|----------------------|-----------------------------------|--------------------------|-----------------------|----------------|-----|------------|-------------|----------|----------|----------|----------|---|
| | Acero Carb. Cinc. Carbon Steel | Acero Inox. St. Steel | Aluminio Aluminium | | | | | | | | | |
| M3 x0,5 | SINSM3xxAC | SINSM3xxINOX | SINSM3xxALU | 3-4-6-8 | 4,2 | 6,0 | 1,0 | 4,19 | 3,2 | none | 4,8 | 2.000 |
| | | | | 10-12-14 | | | | | | 4 | | 1.000 |
| | | | | 16-18 | | | | | | 8 | | |
| 3.5M3 x0,5 | SINS35M3xxAC | SINS35M3xxINOX | SINS35M3xxALU | 3-4-6-8 | 5,4 | 7,0 | 1,0 | 5,38 | 3,2 | none | 6,4 | 2.000 |
| | | | | 10-12-14 | | | | | | 4 | | 1.000 |
| | | | | 16-18 | | | | | | 8 | | |
| M4 x0,7 | SINSM4xxAC | SINSM4xxINOX | SINSM4xxALU | 3-4-6-8 | 7,2 | 8,0 | 1,3 | 7,11 | 4,8 | none | 7,9 | 1.000 |
| | | | | 10-12-14 | | | | | | 4 | | |
| | | | | 16-18-20-22-25 | | | | | | 8 | | |
| M5 x0,8 | SINSM5xxAC | SINSM5xxINOX | SINSM5xxALU | 3-4-6-8 | 7,2 | 8,0 | 1,3 | 7,11 | 5,35 | none | 7,9 | 1.000 |
| | | | | 10-12-14 | | | | | | 4 | | |
| | | | | 16-18-20 | | | | | | 8 | | |
| | | | | 22-25 | | | | | | 11 | | |

DATOS TÉCNICOS INSTALACIÓN EN CHAPA DE ALUMINIO DE 1,5 MM
TECHNICAL DATAS OF INSTALLATION IN 1,5 MM ALUMINIUM SHEET

| THREAD | MATERIAL SEPARADOR STANDOFF MATERIAL |  |  |  |  |
|--------------|---|---|---|---|---|
| | | kN | N | Nm | PULL THRU |
| M3 | ACERO STEEL | | | | 1230 |
| | ACERO INOX. ST. STEEL | 4.7 | 700 | 1.2 | 985 |
| | ALUMINIO ALUMINIUM | | | | 740 |
| 3.5M3 | ACERO STEEL | | | | 1350 |
| | ACERO INOX. ST. STEEL | 7.4 | 1310 | 2.79 | 1100 |
| | ALUMINIO ALUMINIUM | | | | 810 |
| M4 | ACERO STEEL | | | | 2550 |
| | ACERO INOX. ST. STEEL | 10.5 | 1750 | 5.01 | 2020 |
| | ALUMINIO ALUMINIUM | | | | 1525 |
| M5 | ACERO STEEL | | | | 2550 |
| | ACERO INOX. ST. STEEL | 10.5 | 1750 | 5.01 | 2020 |
| | ALUMINIO ALUMINIUM | | | | 1525 |

DATOS TÉCNICOS INSTALACIÓN EN CHAPA DE ACERO DE 1,5 MM
TECHNICAL DATAS OF INSTALLATION IN 1,5 MM COLD ROLLED STEEL SHEET

| THREAD | MATERIAL SEPARADOR STANDOFF MATERIAL |  |  |  |  |  | REC TIGHTEN TORQUE MAX Nm |
|--------------|---|---|---|--|---|---|---------------------------------|
| | | | kN | N | Nm | PULL THRU Nm | |
| M3 | ACERO STEEL | | 9.6 | 990 | 2.1 | 1450 | 0.5 |
| | ACERO INOX. ST. STEEL | 1 | 9.6 | 990 | 2.1 | 1450 | 0.4 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 0.3 |
| 3.5M3 | ACERO STEEL | | 14.5 | 1850 | 3.9 | 1670 | 0.5 |
| | ACERO INOX. ST. STEEL | 1 | 14.5 | 1850 | 3.9 | 1350 | 0.4 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 0.3 |
| M4 | ACERO STEEL | | 17.6 | 2460 | 8.45 | 3100 | 1.9 |
| | ACERO INOX. ST. STEEL | 1.3 | 17.6 | 2460 | 8.45 | 2450 | 0.9 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 1.1 |
| M5 | ACERO STEEL | | 17.6 | 2460 | 8.45 | 3100 | 3.4 |
| | ACERO INOX. ST. STEEL | 1.3 | 17.6 | 2460 | 8.45 | 2450 | 2.7 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 2.1 |

nr= No recomendado.
nr= Not recommended.

ACERO
STEEL

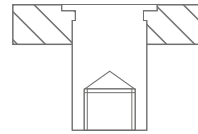
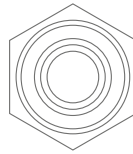
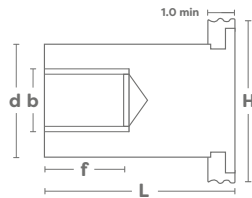
INOX
ST. STEEL

ALUMINIO
ALUMINIUM



| Tipo Type | Material Material | Acabado Finished | Uso Working |
|--------------|--|---|----------------------|
| STO STO | ACERO AL CARBONO CARBON STEEL | CINCADO ZINC PLATED | ≤ 80 HRB ≤ 80 HRB |
| A20 A20 | ACERO INOX. SERIE 303 303 STAINLESS STEEL | PASIVADO ASTM A380 PASIVATED ASTM A380 | ≤ 70 HRB ≤ 70 HRB |
| ALO ALO | ALUMINIO 7075-T6 7075-T6 ALUMINIUM | PULIDO POLISHED | ≤ 50 HRB ≤ 50 HRB |

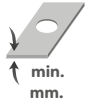


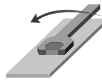

ROSCA / THREAD: 6g ISO Metric



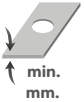


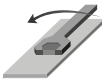
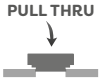

Código Code
*xx = L
Ejemplo/Example: 04M0306STO

| THREAD | Código Code | | | L mm. | mm. | min mm. | min. mm. | d mm. | b mm. | f mm. | H mm. | |
|----------------------|-----------------------------------|--------------------------|-----------------------|-------------|-----|------------|-------------|----------|----------|----------|----------|-------|
| | Acero Carb. Cinc. Carbon Steel | Acero Inox. St. Steel | Aluminio Aluminium | | | | | | | | | |
| M3 x0,5 | SINSM3xxAC-C | SINSM3xxINOX-C | SINSM3xxALU-C | 8 | 4,2 | 6,0 | 1,0 | 4,19 | 3,2 | 4 | 4,8 | 2.000 |
| | | | | 10 | | | | | | 4 | | |
| | | | | 11 | | | | | | 5 | | |
| | | | | 14-16 | | | | | | 6,5 | | |
| | | | | 18-20-22-25 | | | | | | 9,5 | | |
| 3.5M3 x0,5 | SINS35M3xxAC-C | SINS35M3xxINOX-C | SINS35M3xxALU-C | 6 | 5,4 | 7,0 | 1,0 | 5,38 | 3,2 | 3,2 | 6,4 | 1.000 |
| | | | | 8 | | | | | | 4 | | |
| | | | | 10 | | | | | | 4 | | |
| | | | | 11 | | | | | | 5 | | |
| | | | | 14-16 | | | | | | 6,5 | | |
| 18-20-22-25 | 9,5 | | | | | | | | | | | |
| M4 x0,7 | SINSM4xxAC-C | SINSM4xxINOX-C | SINSM4xxALU-C | 8-10 | 7,2 | 8,0 | 1,3 | 7,11 | 4,8 | 4 | 7,9 | 1.000 |
| | | | | 11 | | | | | | 5 | | |
| | | | | 14-16 | | | | | | 6,5 | | |
| | | | | 18-20-22-25 | | | | | | 9,5 | | |
| | | | | 8-10 | | | | | | 4 | | |
| M5 x0,8 | SINSM5xxAC-C | SINSM5xxINOX-C | SINSM5xxALU-C | 8-10 | 7,2 | 8,0 | 1,3 | 7,11 | 5,35 | 4 | 7,9 | 1.000 |
| | | | | 11 | | | | | | 5 | | |
| | | | | 14-16 | | | | | | 6,5 | | |
| | | | | 18-20-22-25 | | | | | | 9,5 | | |
| | | | | 8-10 | | | | | | 4 | | |

DATOS TÉCNICOS INSTALACIÓN EN CHAPA DE ALUMINIO DE 1,5 MM
TECHNICAL DATAS OF INSTALLATION IN 1,5 MM ALUMINIUM SHEET

| THREAD | MATERIAL SEPARADOR STANDOFF MATERIAL |  min. mm. |  kN |  N |  Nm |  PULL THRU |
|--------------|---|---|--|---|--|---|
| M3 | ACERO STEEL | 1 | 4.7 | 700 | 1.2 | 1230 |
| | ACERO INOX. ST. STEEL | | | | | 985 |
| | ALUMINIO ALUMINIUM | | | | | 740 |
| 3.5M3 | ACERO STEEL | 1 | 7.4 | 1310 | 2.79 | 1350 |
| | ACERO INOX. ST. STEEL | | | | | 1100 |
| | ALUMINIO ALUMINIUM | | | | | 810 |
| M4 | ACERO STEEL | 1,3 | 10.5 | 1750 | 5.01 | 2550 |
| | ACERO INOX. ST. STEEL | | | | | 2020 |
| | ALUMINIO ALUMINIUM | | | | | 1525 |
| M5 | ACERO STEEL | 1,3 | 10.5 | 1750 | 5.01 | 2550 |
| | ACERO INOX. ST. STEEL | | | | | 2020 |
| | ALUMINIO ALUMINIUM | | | | | 1525 |

DATOS TÉCNICOS INSTALACIÓN EN CHAPA DE ACERO DE 1,5 MM
TECHNICAL DATAS OF INSTALLATION IN 1,5 MM COLD ROLLED STEEL SHEET

| THREAD | MATERIAL SEPARADOR STANDOFF MATERIAL |  min. mm. |  kN |  N |  Nm |  PULL THRU Nm |  REC TIGHTEN TORQUE MAX Nm |
|--------------|---|---|--|--|--|---|---|
| M3 | ACERO STEEL | 1 | 9.6 | 990 | 2.1 | 1450 | 0.5 |
| | ACERO INOX. ST. STEEL | | 9.6 | 990 | 2.1 | 1450 | 0.4 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 0.3 |
| 3.5M3 | ACERO STEEL | 1 | 14.5 | 1850 | 3.9 | 1670 | 0.5 |
| | ACERO INOX. ST. STEEL | | 14.5 | 1850 | 3.9 | 1350 | 0.4 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 0.3 |
| M4 | ACERO STEEL | 1.3 | 17.6 | 2460 | 8.45 | 3100 | 1.9 |
| | ACERO INOX. ST. STEEL | | 17.6 | 2460 | 8.45 | 2450 | 0.9 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 1.1 |
| M5 | ACERO STEEL | 1.3 | 17.6 | 2460 | 8.45 | 3100 | 3.4 |
| | ACERO INOX. ST. STEEL | | 17.6 | 2460 | 8.45 | 2450 | 2.7 |
| | ALUMINIO ALUMINIUM | | nr | nr | nr | nr | 2.1 |

nr= No recomendado.
nr= Not recommended.

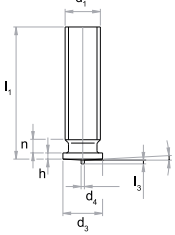
pernos soldables welding studs



Especificaciones y Datos Técnicos
Specifications and Technical Data

Pernos Roscado PT
Threaded Studs PT

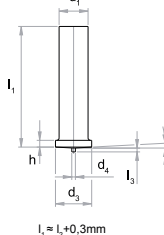
Antes de soldar
Before welding



| | |
|-----------|----------------------------------|
| d1 | Métrica Metrica |
| d3 | Diametro Cabeza Head diameter |
| d4 | Diametro Pin Pin diameter |
| n | Longitud cuello Neck length |
| l1 | Longitud Length |
| l3 | Longitud Pin Pin Length |
| h | Espesor Cabeza Thickness Head |

Perno Liso UT
PIN UT

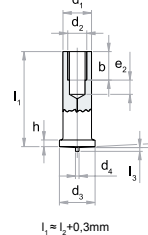
Antes de soldar
Before welding



| | |
|-----------|----------------------------------|
| d1 | Diametro Diameter |
| d3 | Diametro Cabeza Head diameter |
| d4 | Diametro Pin Pin Diameter |
| l1 | Longitud Length |
| l3 | Longitud Pin Pin Length |
| h | Espesor Cabeza Thickness Head |

Perno Rosca Interna IT
Tapped Stud IT

Antes de soldar
Before welding



| | |
|-----------|--|
| d1 | Diametro Exterior Outer Diameter |
| d2 | Métrica Metric |
| d3 | Diametro Cabeza Head diameter |
| d4 | Diametro Pin Pin Diameter |
| b | Longitud Roscada Threaded Length |
| e2 | Longitud sin Roscar Unthreaded length |
| l1 | Longitud Length |
| l3 | Longitud Pin Pin Length |
| h | Espesor Cabeza Thickness Head |

Tipo de Perno
Stud Type

Pernos Roscado PT
Threaded Studs PT



Perno Liso UT
PIN UT



Perno Rosca Interna IT
Tapped Stud IT



Materiales
Materials

Acero Cobreado
Copper Plated



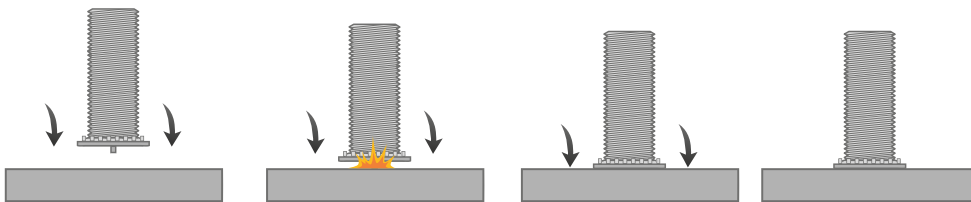
Acero Inoxidable
Stainless Steel



Aluminio AIMG3
Alluminium



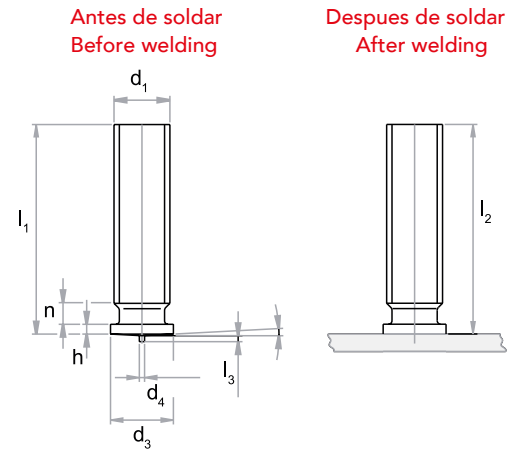
Instalación
Installation



DIMENSIONES ESTÁNDAR STANDARD DIMENSIONS

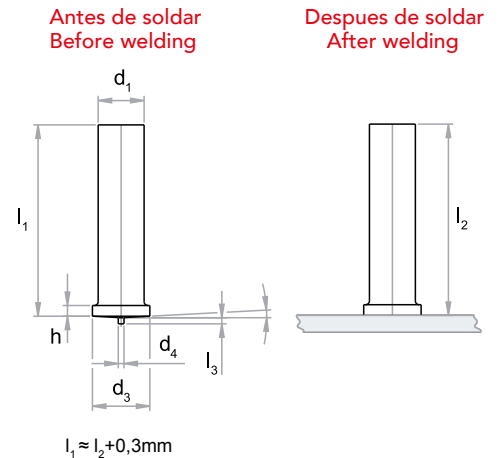
PERNO ROSCADO **PT** / THREADED STUDS **PT**

| d_1 | l_1 +0.60 | d_3 ±0.2 | d_4 ±0.08 | l_3 +0.05 | h max. | n | l_2 | α |
|-------|--------------------------------|---------------|----------------|----------------|-----------|-----|-------------------------|----------|
| M3 | Ver larguras See dimensions | 4.5 | 0.6 | 0.55 | 0.7-1.4 | 1.5 | $l_2 \approx l_1 - 0,3$ | 3 |
| M4 | | 5.5 | 0.65 | | | | | |
| M5 | | 6.5 | 0.75 | 0.80 | 0.8-1.4 | 2 | | |
| M6 | | 7.5 | | 0.85 | 3 | | | |
| M8 | | 9.0 | | 0.85 | 3 | | | |



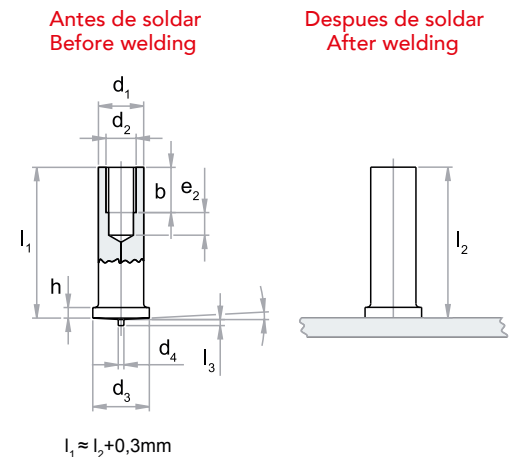
PERNO LISO **UT** / PIN **UT**

| d_1 ±0.1 | l_1 +0.60 | d_3 ±0.2 | d_4 ±0.08 | l_3 +0.05 | h | l_2 | α ±1 |
|---------------|--------------------------------|---------------|----------------|----------------|---------|-------------------------|----------------|
| Ø 3 | Ver larguras See dimensions | 4.5 | 0.6 | 0.55 | 0.7-1.4 | $l_2 \approx l_1 - 0,3$ | 3 |
| Ø 4 | | 5.5 | 0.65 | | | | |
| Ø 5 | | 6.5 | 0.75 | 0.80 | 0.8-1.4 | | |
| Ø 6 | | 7.5 | | 0.85 | | | |
| Ø 7 | | 9.0 | | 0.85 | | | |
| Ø 8 | | 9.0 | 0.85 | 0.85 | 0.8-1.4 | | |



PERNO ROSCA INTERNA **IT** / TAPPED STUD **IT**

| d_1 | l_1 +0.60 | d_3 ±0.2 | d_4 ±0.08 | l_3 +0.05 | h | d_2 | b | l_2 | α ±1 |
|-------|--------------------------------|---------------|----------------|----------------|---------|-------|---|-------------------------|----------------|
| Ø 5 | Ver larguras See dimensions | 6.5 | 0.75 | 0.80 | 0.8-1.4 | M3 | 5 | $l_2 \approx l_1 - 0,3$ | 3 |
| Ø 6 | | 7.5 | | | | M4 | 6 | | |
| Ø 7.1 | | 9.0 | M5 | 7.5 | | | | | |
| Ø 8 | | | M6 | | | | | | |



Atención: las características dimensionales o las prestaciones pueden modificarse sin previo aviso.

Caution: dimensional characteristics or performance may be changed without prior notice.

PERNOS ROSCADO PT

ACERO COBREADO / COPPER PLATED (4.8) ST 37

PT-THREADED STUDS DIN EN ISO 13918 (DIN 32501)



> Tamaños y materiales especiales a petición.

> *On special request modified dimensions and materials can be supplied*

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|---------------------------|--|
| PSM25xxACECO-PT | M 2,5 x Largo./ Lengh. | Sólo bajo petición Only on demand |
| PSM306ACECO-PT | M 3 x 6 | 0,33 |
| PSM308ACECO-PT | M 3 x 8 | 0,42 |
| PSM310ACECO-PT | M 3 x 10 | 0,49 |
| PSM312ACECO-PT | M 3 x 12 | 0,57 |
| PSM315ACECO-PT | M 3 x 15 | 0,70 |
| PSM316ACECO-PT | M 3 x 16 | 0,73 |
| PSM320ACECO-PT | M 3 x 20 | 0,85 |
| PSM325ACECO-PT | M 3 x 25 | 0,93 |
| PSM330ACECO-PT | M 3 x 30 | 1,12 |
| PSM335ACECO-PT | M 3 x 35 | 1,55 |
| PSM340ACECO-PT | M 3 x 40 | 1,76 |
| PSM406ACECO-PT | M 4 x 6 | 0,50 |
| PSM408ACECO-PT | M 4 x 8 | 0,70 |
| PSM410ACECO-PT | M 4 x 10 | 0,80 |
| PSM412ACECO-PT | M 4 x 12 | 0,95 |
| PSM415ACECO-PT | M 4 x 15 | 1,11 |
| PSM416ACECO-PT | M 4 x 16 | 1,20 |
| PSM420ACECO-PT | M 4 x 20 | 1,54 |
| PSM425ACECO-PT | M 4 x 25 | 1,92 |
| PSM430ACECO-PT | M 4 x 30 | 2,30 |
| PSM435ACECO-PT | M 4 x 35 | 2,65 |
| PSM440ACECO-PT | M 4 x 40 | 3,19 |
| PSM445ACECO-PT | M 4 x 45 | 3,57 |
| PSM508ACECO-PT | M 5 x 8 | 1,08 |
| PSM510ACECO-PT | M 5 x 10 | 1,35 |
| PSM512ACECO-PT | M 5 x 12 | 1,60 |
| PSM515ACECO-PT | M 5 x 15 | 1,83 |
| PSM516ACECO-PT | M 5 x 16 | 1,95 |
| PSM520ACECO-PT | M 5 x 20 | 2,55 |
| PSM525ACECO-PT | M 5 x 25 | 3,15 |
| PSM530ACECO-PT | M 5 x 30 | 3,75 |
| PSM535ACECO-PT | M 5 x 35 | 4,38 |
| PSM540ACECO-PT | M 5 x 40 | 5,00 |
| PSM545ACECO-PT | M 5 x 45 | 5,87 |
| PSM550ACECO-PT | M 5 x 50 | 6,50 |

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|--------------------------|--|
| PSM608ACECO-PT | M 6 x 8 | 1,60 |
| PSM610ACECO-PT | M 6 x 10 | 1,85 |
| PSM612ACECO-PT | M 6 x 12 | 2,10 |
| PSM615ACECO-PT | M 6 x 15 | 2,65 |
| PSM616ACECO-PT | M 6 x 16 | 2,65 |
| PSM620ACECO-PT | M 6 x 20 | 3,40 |
| PSM625ACECO-PT | M 6 x 25 | 4,15 |
| PSM630ACECO-PT | M 6 x 30 | 4,90 |
| PSM635ACECO-PT | M 6 x 35 | 5,56 |
| PSM640ACECO-PT | M 6 x 40 | 6,40 |
| PSM645ACECO-PT | M 6 x 45 | 7,20 |
| PSM650ACECO-PT | M 6 x 50 | 9,36 |
| PSM655ACECO-PT | M 6 x 55 | 10,26 |
| PSM810ACECO-PT | M 8 x 10 | 3,31 |
| PSM812ACECO-PT | M 8 x 12 | 4,30 |
| PSM815ACECO-PT | M 8 x 15 | 4,90 |
| PSM816ACECO-PT | M 8 x 16 | 5,82 |
| PSM820ACECO-PT | M 8 x 20 | 6,50 |
| PSM825ACECO-PT | M 8 x 25 | 8,13 |
| PSM830ACECO-PT | M 8 x 30 | 9,80 |
| PSM835ACECO-PT | M 8 x 35 | 11,40 |
| PSM840ACECO-PT | M 8 x 40 | 13,05 |
| PSM845ACECO-PT | M 8 x 45 | 14,70 |
| PSM850ACECO-PT | M 8 x 50 | 16,35 |
| PSM855ACECO-PT | M 8 x 55 | 22,90 |
| PSM860ACECO-PT | M 8 x 60 | 24,90 |
| PSM10xxACECO-PT | M 10 x Largo./ Lengh. | Sólo bajo petición Only on demand |

Pernos de latón CuZn37 a petición
Studs in Brass (Ms63) on demand

PERNOS ROSCADOS PT

ACERO INOXIDABLE A2-50 (1.4301/3) / STAINLESS STEEL

PT-THREADED STUDS DIN EN ISO 13918 (DIN 32501)

- > Tamaños y materiales especiales a petición
- > *On special request modified dimensions and materials can be supplied*



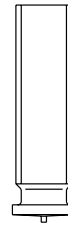
| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|---------------------------|--|
| PSM25xxINOX-PT | M 2,5 x Largo./ Lengh. | Sólo bajo petición Only on demand |
| PSM306INOX-PT | M 3 x 6 | 0,31 |
| PSM308INOX-PT | M 3 x 8 | 0,38 |
| PSM310INOX-PT | M 3 x 10 | 0,48 |
| PSM312INOX-PT | M 3 x 12 | 0,55 |
| PSM315INOX-PT | M 3 x 15 | 0,67 |
| PSM316INOX-PT | M 3 x 16 | 0,67 |
| PSM320INOX-PT | M 3 x 20 | 0,69 |
| PSM325INOX-PT | M 3 x 25 | 1,05 |
| PSM330INOX-PT | M 3 x 30 | 1,30 |
| PSM335INOX-PT | M 3 x 35 | 1,55 |
| PSM340INOX-PT | M 3 x 40 | 1,76 |
| PSM406INOX-PT | M 4 x 6 | 0,49 |
| PSM408INOX-PT | M 4 x 8 | 0,65 |
| PSM410INOX-PT | M 4 x 10 | 0,80 |
| PSM412INOX-PT | M 4 x 12 | 0,95 |
| PSM415INOX-PT | M 4 x 15 | 1,15 |
| PSM416INOX-PT | M 4 x 16 | 1,20 |
| PSM420INOX-PT | M 4 x 20 | 1,57 |
| PSM425INOX-PT | M 4 x 25 | 1,85 |
| PSM430INOX-PT | M 4 x 30 | 2,20 |
| PSM435INOX-PT | M 4 x 35 | 2,50 |
| PSM440INOX-PT | M 4 x 40 | 3,19 |
| PSM445INOX-PT | M 4 x 45 | 3,57 |
| PSM508INOX-PT | M 5 x 8 | 0,90 |
| PSM510INOX-PT | M 5 x 10 | 1,28 |
| PSM512INOX-PT | M 5 x 12 | 1,42 |
| PSM515INOX-PT | M 5 x 15 | 1,80 |
| PSM516INOX-PT | M 5 x 16 | 1,90 |
| PSM520INOX-PT | M 5 x 20 | 2,41 |
| PSM525INOX-PT | M 5 x 25 | 3,04 |
| PSM530INOX-PT | M 5 x 30 | 3,63 |
| PSM535INOX-PT | M 5 x 35 | 4,25 |
| PSM540INOX-PT | M 5 x 40 | 4,85 |
| PSM545INOX-PT | M 5 x 45 | 5,87 |
| PSM550INOX-PT | M 5 x 50 | 6,50 |

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|--------------------------|--|
| PSM608INOX-PT | M 6 x 8 | 1,50 |
| PSM610INOX-PT | M 6 x 10 | 1,87 |
| PSM612INOX-PT | M 6 x 12 | 2,25 |
| PSM615INOX-PT | M 6 x 15 | 2,65 |
| PSM616INOX-PT | M 6 x 16 | 2,70 |
| PSM620INOX-PT | M 6 x 20 | 3,55 |
| PSM625INOX-PT | M 6 x 25 | 4,40 |
| PSM630INOX-PT | M 6 x 30 | 5,25 |
| PSM635INOX-PT | M 6 x 35 | 6,05 |
| PSM640INOX-PT | M 6 x 40 | 6,96 |
| PSM645INOX-PT | M 6 x 45 | 7,80 |
| PSM650INOX-PT | M 6 x 50 | 9,36 |
| PSM655INOX-PT | M 6 x 55 | 10,26 |
| PSM810INOX-PT | M 8 x 10 | 3,33 |
| PSM812INOX-PT | M 8 x 12 | 3,96 |
| PSM815INOX-PT | M 8 x 15 | 4,90 |
| PSM816INOX-PT | M 8 x 16 | 5,82 |
| PSM820INOX-PT | M 8 x 20 | 6,50 |
| PSM825INOX-PT | M 8 x 25 | 8,00 |
| PSM830INOX-PT | M 8 x 30 | 9,60 |
| PSM835INOX-PT | M 8 x 35 | 11,20 |
| PSM840INOX-PT | M 8 x 40 | 12,70 |
| PSM845INOX-PT | M 8 x 45 | 14,20 |
| PSM850INOX-PT | M 8 x 50 | 15,80 |
| PSM855INOX-PT | M 8 x 55 | 22,90 |
| PSM860INOX-PT | M 8 x 60 | 24,90 |
| PSM10xxINOX-PT | M 10 x Largo./ Lengh. | Sólo bajo petición Only on demand |

PERNOS ROSCADOS PT

ALUMINIO AIMG3 / ALLUMINIUM

PT-THREADED STUDS DIN EN ISO 13918 (DIN 32501)



- > Tamaños y materiales especiales a petición
- > *On special request modified dimensions and materials can be supplied*

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|-----------------------|--|
| PSM306ALU-PT | M 3 x 6 | 0,10 |
| PSM308ALU-PT | M 3 x 8 | 0,13 |
| PSM310ALU-PT | M 3 x 10 | 0,14 |
| PSM312ALU-PT | M 3 x 12 | 0,15 |
| PSM315ALU-PT | M 3 x 15 | 0,21 |
| PSM316ALU-PT | M 3 x 16 | 0,23 |
| PSM320ALU-PT | M 3 x 20 | 0,29 |
| PSM325ALU-PT | M 3 x 25 | 0,39 |
| PSM330ALU-PT | M 3 x 30 | 0,49 |
| PSM406ALU-PT | M 4 x 6 | 0,15 |
| PSM408ALU-PT | M 4 x 8 | 0,18 |
| PSM410ALU-PT | M 4 x 10 | 0,27 |
| PSM412ALU-PT | M 4 x 12 | 0,32 |
| PSM415ALU-PT | M 4 x 15 | 0,39 |
| PSM416ALU-PT | M 4 x 16 | 0,39 |
| PSM420ALU-PT | M 4 x 20 | 0,50 |
| PSM425ALU-PT | M 4 x 25 | 0,65 |
| PSM430ALU-PT | M 4 x 30 | 0,76 |
| PSM435ALU-PT | M 4 x 35 | 0,92 |
| PSM508ALU-PT | M 5 x 8 | 0,34 |
| PSM510ALU-PT | M 5 x 10 | 0,40 |
| PSM512ALU-PT | M 5 x 12 | 0,50 |
| PSM515ALU-PT | M 5 x 15 | 0,62 |
| PSM516ALU-PT | M 5 x 16 | 0,64 |
| PSM520ALU-PT | M 5 x 20 | 0,88 |
| PSM525ALU-PT | M 5 x 25 | 1,00 |
| PSM530ALU-PT | M 5 x 30 | 1,25 |
| PSM535ALU-PT | M 5 x 35 | 1,42 |
| PSM540ALU-PT | M 5 x 40 | 1,65 |

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|--------------------------|--|
| PSM608ALU-PT | M 6 x 8 | 0,46 |
| PSM610ALU-PT | M 6 x 10 | 0,55 |
| PSM612ALU-PT | M 6 x 12 | 0,70 |
| PSM615ALU-PT | M 6 x 15 | 0,85 |
| PSM616ALU-PT | M 6 x 16 | 0,90 |
| PSM620ALU-PT | M 6 x 20 | 1,19 |
| PSM625ALU-PT | M 6 x 25 | 1,41 |
| PSM630ALU-PT | M 6 x 30 | 2,34 |
| PSM635ALU-PT | M 6 x 35 | 2,60 |
| PSM640ALU-PT | M 6 x 40 | 6,96 |
| PSM810ALU-PT | M 8 x 10 | 1,13 |
| PSM812ALU-PT | M 8 x 12 | 1,35 |
| PSM815ALU-PT | M 8 x 15 | 1,60 |
| PSM816ALU-PT | M 8 x 16 | 1,75 |
| PSM820ALU-PT | M 8 x 20 | 2,15 |
| PSM825ALU-PT | M 8 x 25 | 2,65 |
| PSM830ALU-PT | M 8 x 30 | 3,24 |
| PSM10xxALU-PT | M 10 x Largo./ Lengh. | Sólo bajo petición Only on demand |

PERNOS LISOS UT

ACERO COBREDO 4,8 / ST 37 COPPER PLATED

UT-NO THREADED STUDS DIN EN ISO 13918 (DIN 32501)

- > Tamaños y materiales especiales a petición
- > On special request modified dimensions and materials can be supplied



| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|---------------------------|--|
| PSM21xxACECO-UT | S 2,1 x Largo./ Lengh. | Sólo bajo petición Only on demand |
| PSM26xxACECO-UT | S 2,6 x Largo./ Lengh. | |
| PSM306ACECO-UT | S 3 x 6 | 0,33 |
| PSM308ACECO-UT | S 3 x 8 | 0,42 |
| PSM310ACECO-UT | S 3 x 10 | 0,49 |
| PSM312ACECO-UT | S 3 x 12 | 0,54 |
| PSM315ACECO-UT | S 3 x 15 | 0,64 |
| PSM320ACECO-UT | S 3 x 20 | 0,82 |
| PSM325ACECO-UT | S 3 x 25 | 0,98 |
| PSM406ACECO-UT | S 4 x 6 | 0,60 |
| PSM408ACECO-UT | S 4 x 8 | 0,67 |
| PSM410ACECO-UT | S 4 x 10 | 0,80 |
| PSM412ACECO-UT | S 4 x 12 | 0,95 |
| PSM415ACECO-UT | S 4 x 15 | 1,18 |
| PSM416ACECO-UT | S 4 x 16 | 1,18 |
| PSM420ACECO-UT | S 4 x 20 | 1,54 |
| PSM425ACECO-UT | S 4 x 25 | 1,92 |
| PSM430ACECO-UT | S 4 x 30 | 2,30 |
| PSM435ACECO-UT | S 4 x 35 | 2,65 |
| PSM508ACECO-UT | S 5 x 8 | 1,15 |
| PSM510ACECO-UT | S 5 x 10 | 1,35 |
| PSM512ACECO-UT | S 5 x 12 | 1,60 |
| PSM515ACECO-UT | S 5 x 15 | 1,95 |
| PSM520ACECO-UT | S 5 x 20 | 2,55 |
| PSM525ACECO-UT | S 5 x 25 | 3,15 |
| PSM530ACECO-UT | S 5 x 30 | 3,75 |
| PSM535ACECO-UT | S 5 x 35 | 4,35 |
| PSM540ACECO-UT | S 5 x 40 | 4,92 |

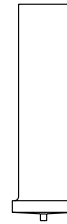
| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|-----------------------|--|
| PSM608ACECO-UT | S 6 x 8 | 1,65 |
| PSM610ACECO-UT | S 6 x 10 | 1,85 |
| PSM612ACECO-UT | S 6 x 12 | 2,10 |
| PSM615ACECO-UT | S 6 x 15 | 2,68 |
| PSM620ACECO-UT | S 6 x 20 | 3,40 |
| PSM625ACECO-UT | S 6 x 25 | 4,15 |
| PSM630ACECO-UT | S 6 x 30 | 4,90 |
| PSM635ACECO-UT | S 6 x 35 | 5,65 |
| PSM640ACECO-UT | S 6 x 40 | 6,40 |
| PSM645ACECO-UT | S 6 x 35 | 7,20 |
| PSM7110ACECO-UT | S 7,1 x 10 | 3,31 |
| PSM7112ACECO-UT | S 7,1 x 12 | 4,00 |
| PSM7115ACECO-UT | S 7,1 x 15 | 4,90 |
| PSM7120ACECO-UT | S 7,1 x 20 | 6,50 |
| PSM7125ACECO-UT | S 7,1 x 25 | 8,13 |
| PSM7130ACECO-UT | S 7,1 x 30 | 9,80 |
| PSM08xxACECO-UT | S 8 x Largo./ Lengh. | Sólo bajo petición Only on demand |

Pernos de latón CuZn37 a petición
Studs in Brass (Ms63) on demand

PERNOS LISOS UT

ACERO INOXIDABLE A2-50 (1.4301/3) / STAINLESS STEEL

UT-NO THREADED STUDS DIN EN ISO 13918 (DIN 32501)



- > Tamaños y materiales especiales a petición
- > *On special request modified dimensions and materials can be supplied*

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|---------------------------|--|
| PSM21xxINOX-UT | S 2,1 x Largo./ Lengh. | Sólo bajo petición Only on demand |
| PSM26xxINOX-UT | S 2,6 x Largo./ Lengh. | |
| PSM306INOX-UT | S 3 x 6 | 0,31 |
| PSM308INOX-UT | S 3 x 8 | 0,38 |
| PSM310INOX-UT | S 3 x 10 | 0,48 |
| PSM312INOX-UT | S 3 x 12 | 0,55 |
| PSM315INOX-UT | S 3 x 15 | 0,67 |
| PSM316INOX-UT | S 3 x 16 | 0,67 |
| PSM320INOX-UT | S 3 x 20 | 0,89 |
| PSM325INOX-UT | S 3 x 25 | 1,05 |
| PSM406INOX-UT | S 4 x 6 | 0,50 |
| PSM408INOX-UT | S 4 x 8 | 0,65 |
| PSM410INOX-UT | S 4 x 10 | 0,80 |
| PSM412INOX-UT | S 4 x 12 | 0,95 |
| PSM415INOX-UT | S 4 x 15 | 1,15 |
| PSM416INOX-UT | S 4 x 16 | 1,20 |
| PSM420INOX-UT | S 4 x 20 | 1,57 |
| PSM425INOX-UT | S 4 x 25 | 1,85 |
| PSM430INOX-UT | S 4 x 30 | 2,20 |
| PSM435INOX-UT | S 4 x 35 | 2,50 |
| PSM508INOX-UT | S 5 x 8 | 0,90 |
| PSM510INOX-UT | S 5 x 10 | 1,28 |
| PSM512INOX-UT | S 5 x 12 | 1,42 |
| PSM515INOX-UT | S 5 x 15 | 1,80 |
| PSM516INOX-UT | S 5 x 16 | 1,80 |
| PSM520INOX-UT | S 5 x 20 | 2,41 |
| PSM525INOX-UT | S 5 x 25 | 3,04 |
| PSM530INOX-UT | S 5 x 30 | 3,63 |
| PSM535INOX-UT | S 5 x 35 | 4,25 |
| PSM540INOX-UT | S 5 x 40 | 4,85 |

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|-----------------------|--|
| PSM608INOX-UT | S 6 x 8 | 1,40 |
| PSM610INOX-UT | S 6 x 10 | 1,86 |
| PSM612INOX-UT | S 6 x 12 | 2,25 |
| PSM615INOX-UT | S 6 x 15 | 2,65 |
| PSM616INOX-UT | S 6 x 16 | 2,66 |
| PSM620INOX-UT | S 6 x 20 | 3,55 |
| PSM625INOX-UT | S 6 x 25 | 4,40 |
| PSM630INOX-UT | S 6 x 30 | 5,25 |
| PSM635INOX-UT | S 6 x 35 | 6,05 |
| PSM640INOX-UT | S 6 x 40 | 6,96 |
| PSM635INOX-UT | S 6 x 35 | 7,80 |
| PSM7110INOX-UT | S 7,1 x 10 | 3,33 |
| PSM7112INOX-UT | S 7,1 x 12 | 3,90 |
| PSM7115INOX-UT | S 7,1 x 15 | 4,90 |
| PSM7116INOX-UT | S 7,1 x 16 | 5,80 |
| PSM7120INOX-UT | S 7,1 x 20 | 6,50 |
| PSM7125INOX-UT | S 7,1 x 25 | 8,00 |
| PSM7130INOX-UT | S 7,1 x 30 | 9,60 |
| PSM7135INOX-UT | S 7,1 x 35 | 11,20 |
| PSM7140INOX-UT | S 7,1 x 40 | 12,70 |
| PSM7145INOX-UT | S 7,1 x 45 | 14,20 |
| PSM7150INOX-UT | S 7,1 x 50 | 15,80 |
| PSM08xxINOX-UT | S 8 x Largo./ Lengh. | Sólo bajo petición Only on demand |

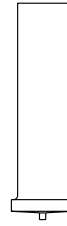
PERNOS LISOS UT

ALUMINIO AIMG3 / ALLUMINIUM

UT-NO THREADED STUDS

DIN EN ISO 13918 (DIN 32501)

- > Tamaños y materiales especiales a petición
- > On special request modified dimensions and materials can be supplied



| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|---------------------------|--|
| PSM21xxALU-UT | S 2,1 x Lungh./ Lengh. | Sólo bajo petición Only on demand |
| PSM26xxALU-UT | S 2,6 x Lungh./ Lengh. | |
| PSM306ALU-UT | S 3 x 6 | 0,14 |
| PSM308ALU-UT | S 3 x 8 | 0,18 |
| PSM310ALU-UT | S 3 x 10 | 0,22 |
| PSM312ALU-UT | S 3 x 12 | 0,25 |
| PSM315ALU-UT | S 3 x 15 | 0,31 |
| PSM320ALU-UT | S 3 x 20 | 0,40 |
| PSM325ALU-UT | S 3 x 25 | 0,50 |
| PSM406ALU-UT | S 4 x 6 | 0,26 |
| PSM408ALU-UT | S 4 x 8 | 0,32 |
| PSM410ALU-UT | S 4 x 10 | 0,39 |
| PSM412ALU-UT | S 4 x 12 | 0,45 |
| PSM415ALU-UT | S 4 x 15 | 0,55 |
| PSM420ALU-UT | S 4 x 20 | 0,72 |
| PSM425ALU-UT | S 4 x 25 | 0,89 |
| PSM430ALU-UT | S 4 x 30 | 1,05 |
| PSM435ALU-UT | S 4 x 35 | 1,22 |
| PSM508ALU-UT | S 5 x 8 | 0,34 |
| PSM510ALU-UT | S 5 x 10 | 0,40 |
| PSM512ALU-UT | S 5 x 12 | 0,50 |
| PSM515ALU-UT | S 5 x 15 | 0,62 |
| PSM520ALU-UT | S 5 x 20 | 0,88 |
| PSM525ALU-UT | S 5 x 25 | 1,00 |
| PSM530ALU-UT | S 5 x 30 | 1,24 |
| PSM535ALU-UT | S 5 x 35 | 1,42 |
| PSM540ALU-UT | S 5 x 40 | 1,65 |

| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|-----------------------|--|
| PSM608ALU-UT | S 6 x 8 | 0,40 |
| PSM610ALU-UT | S 6 x 10 | 0,55 |
| PSM612ALU-UT | S 6 x 12 | 0,70 |
| PSM615ALU-UT | S 6 x 15 | 0,85 |
| PSM620ALU-UT | S 6 x 20 | 1,19 |
| PSM625ALU-UT | S 6 x 25 | 1,41 |
| PSM630ALU-UT | S 6 x 30 | 1,70 |
| PSM635ALU-UT | S 6 x 35 | 1,98 |
| PSM640ALU-UT | S 6 x 40 | 2,34 |
| PSM645ALU-UT | S 6 x 35 | 2,60 |
| PSM7110ALU-UT | S 7,1 x 10 | 1,30 |
| PSM7112ALU-UT | S 7,1 x 12 | 1,42 |
| PSM7115ALU-UT | S 7,1 x 15 | 1,60 |
| PSM7120ALU-UT | S 7,1 x 20 | 2,15 |
| PSM7125ALU-UT | S 7,1 x 25 | 2,65 |
| PSM7130ALU-UT | S 7,1 x 30 | 3,24 |
| PSM08xxALU-UT | S 8 x Largo./ Lengh. | Sólo bajo petición Only on demand |

PERNOS ROSCA INTERNA IT

ACERO COBREDO / COPPER PLATED (4.8) ST 37

DIN EN ISO 13918 (DIN 32501)

IT-TAPPED STUDS

- > Tamaños y materiales especiales a petición
- > On special request modified dimensions and materials can be supplied



| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|-----------------------|--|
| PSM306ACECO-IT | IT 5 M 3 x 6 | 0,70 |
| PSM308ACECO-IT | IT 5 M 3 x 8 | 0,89 |
| PSM310ACECO-IT | IT 5 M 3 x 10 | 1,13 |
| PSM312ACECO-IT | IT 5 M 3 x 12 | 1,37 |
| PSM315ACECO-IT | IT 5 M 3 x 15 | 1,72 |
| PSM316ACECO-IT | IT 5 M 3 x 16 | 1,72 |
| PSM320ACECO-IT | IT 5 M 3 x 20 | 2,32 |
| PSM325ACECO-IT | IT 5 M 3 x 25 | 2,91 |
| PSM330ACECO-IT | IT 5 M 3 x 30 | 3,50 |
| PSM406ACECO-IT | IT 6 M 4 x 6 | 2,03 |
| PSM408ACECO-IT | IT 6 M 4 x 8 | 2,07 |
| PSM410ACECO-IT | IT 6 M 4 x 10 | 2,51 |
| PSM412ACECO-IT | IT 6 M 4 x 12 | 3,18 |
| PSM415ACECO-IT | IT 6 M 4 x 15 | 3,30 |
| PSM420ACECO-IT | IT 6 M 4 x 20 | 4,28 |
| PSM425ACECO-IT | IT 6 M 4 x 25 | 5,39 |
| PSM430ACECO-IT | IT 6 M 4 x 30 | 6,40 |
| PSM508ACECO-IT | IT 7,1 M 5 x 8 | 3,30 |
| PSM510ACECO-IT | IT 7,1 M 5 x 10 | 3,30 |
| PSM512ACECO-IT | IT 7,1 M 5 x 12 | 3,90 |
| PSM515ACECO-IT | IT 7,1 M 5 x 15 | 5,20 |
| PSM516ACECO-IT | IT 7,1 M 5 x 16 | 5,20 |
| PSM518ACECO-IT | IT 7,1 M 5 x 18 | 6,00 |
| PSM520ACECO-IT | IT 7,1 M 5 x 20 | 6,50 |
| PSM525ACECO-IT | IT 7,1 M 5 x 25 | 8,10 |
| PSM530ACECO-IT | IT 7,1 M 5 x 30 | 9,80 |
| PSM610ACECO-IT | IT 8 M 6 x 10 | 3,63 |
| PSM612ACECO-IT | IT 8 M 6 x 12 | 4,29 |
| PSM615ACECO-IT | IT 8 M 6 x 15 | 5,72 |
| PSM620ACECO-IT | IT 8 M 6 x 20 | 7,15 |
| PSM625ACECO-IT | IT 8 M 6 x 25 | 8,91 |
| PSM630ACECO-IT | IT 8 M 6 x 30 | 10,78 |

Casquillos de latón CuZn37 bajo pedido
Tapped Studs in Brass (Ms63) on demand

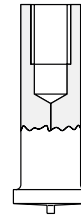
PERNOS ROSCA INTERNA IT

ACERO INOXIDABLE A2-50 (1.4301/3) / STAINLESS STEEL

IT-TAPPED STUDS

DIN EN ISO 13918 (DIN 32501)

- > Tamaños y materiales especiales a petición
- > *On special request modified dimensions and materials can be supplied*



| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|-----------------------|--|
| PSM306INOX-IT | IT 5 M 3 x 6 | 0,89 |
| PSM308INOX-IT | IT 5 M 3 x 8 | 0,89 |
| PSM310INOX-IT | IT 5 M 3 x 10 | 1,13 |
| PSM312INOX-IT | IT 5 M 3 x 12 | 1,37 |
| PSM315INOX-IT | IT 5 M 3 x 15 | 1,72 |
| PSM316INOX-IT | IT 5 M 3 x 16 | 1,72 |
| PSM320INOX-IT | IT 5 M 3 x 20 | 2,32 |
| PSM325INOX-IT | IT 5 M 3 x 25 | 2,91 |
| PSM330INOX-IT | IT 5 M 3 x 30 | 3,50 |
| PSM406INOX-IT | IT 6 M 4 x 6 | 2,03 |
| PSM408INOX-IT | IT 6 M 4 x 8 | 2,07 |
| PSM410INOX-IT | IT 6 M 4 x 10 | 2,51 |
| PSM412INOX-IT | IT 6 M 4 x 12 | 3,18 |
| PSM415INOX-IT | IT 6 M 4 x 15 | 3,30 |
| PSM420INOX-IT | IT 6 M 4 x 20 | 4,28 |
| PSM425INOX-IT | IT 6 M 4 x 25 | 5,39 |
| PSM430INOX-IT | IT 6 M 4 x 30 | 6,40 |
| PSM510INOX-IT | IT 7,1 M 5 x 10 | 3,30 |
| PSM512INOX-IT | IT 7,1 M 5 x 12 | 3,90 |
| PSM515INOX-IT | IT 7,1 M 5 x 15 | 5,20 |
| PSM516INOX-IT | IT 7,1 M 5 x 16 | 5,20 |
| PSM520INOX-IT | IT 7,1 M 5 x 20 | 6,50 |
| PSM525INOX-IT | IT 7,1 M 5 x 25 | 8,10 |
| PSM530INOX-IT | IT 7,1 M 5 x 30 | 9,80 |
| PSM610INOX-IT | IT 8 M 6 x 10 | 3,63 |
| PSM612INOX-IT | IT 8 M 6 x 12 | 4,29 |
| PSM615INOX-IT | IT 8 M 6 x 15 | 5,72 |
| PSM620INOX-IT | IT 8 M 6 x 20 | 7,15 |
| PSM625INOX-IT | IT 8 M 6 x 25 | 8,91 |
| PSM630INOX-IT | IT 8 M 6 x 30 | 10,78 |

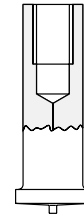
PERNOS ROSCA INTERNA IT

ALUMINIO AIMG3 / ALLUMINIUM

IT-TAPPED STUDS

DIN EN ISO 13918 (DIN 32501)

- > Tamaños y materiales especiales a petición
- > *On special request modified dimensions and materials can be supplied*



| CÓDIGO ORDER-NO. | Medidas Dimensions | Peso kg/1000 pcs Weight kg/1000 pcs |
|---------------------|------------------------------|--|
| PSM306ALU-IT | IT 5 M 3 x 6 | 0,49 |
| PSM308ALU-IT | IT 5 M 3 x 8 | 0,59 |
| PSM310ALU-IT | IT 5 M 3 x 10 | 0,70 |
| PSM312ALU-IT | IT 5 M 3 x 12 | 0,80 |
| PSM315ALU-IT | IT 5 M 3 x 15 | 1,00 |
| PSM316ALU-IT | IT 5 M 3 x 16 | 1,01 |
| PSM320ALU-IT | IT 5 M 3 x 20 | 1,23 |
| PSM325ALU-IT | IT 5 M 3 x 25 | 1,49 |
| PSM330ALU-IT | IT 5 M 3 x 30 | 1,76 |
| PSM408ALU-IT | IT 6 M 4 x 8 | 0,30 |
| PSM410ALU-IT | IT 6 M 4 x 10 | 0,60 |
| PSM412ALU-IT | IT 6 M 4 x 12 | 0,90 |
| PSM415ALU-IT | IT 6 M 4 x 15 | 1,46 |
| PSM420ALU-IT | IT 6 M 4 x 20 | 1,77 |
| PSM425ALU-IT | IT 6 M 4 x 25 | 2,16 |
| PSM430ALU-IT | IT 6 M 4 x 30 | 2,55 |
| PSM510ALU-IT | IT 7,1 M 5 x 10 | 1,42 |
| PSM512ALU-IT | IT 7,1 M 5 x 12 | 1,64 |
| PSM515ALU-IT | IT 7,1 M 5 x 15 | 2,07 |
| PSM520ALU-IT | IT 7,1 M 5 x 20 | 2,51 |
| PSM525ALU-IT | IT 7,1 M 5 x 25 | 3,08 |
| PSM530ALU-IT | IT 7,1 M 5 x 30 | 3,63 |
| PSM6xxALU-IT | IT 8 M 6 x Largo./ Lengh. | Sólo bajo petición Only on demand |

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