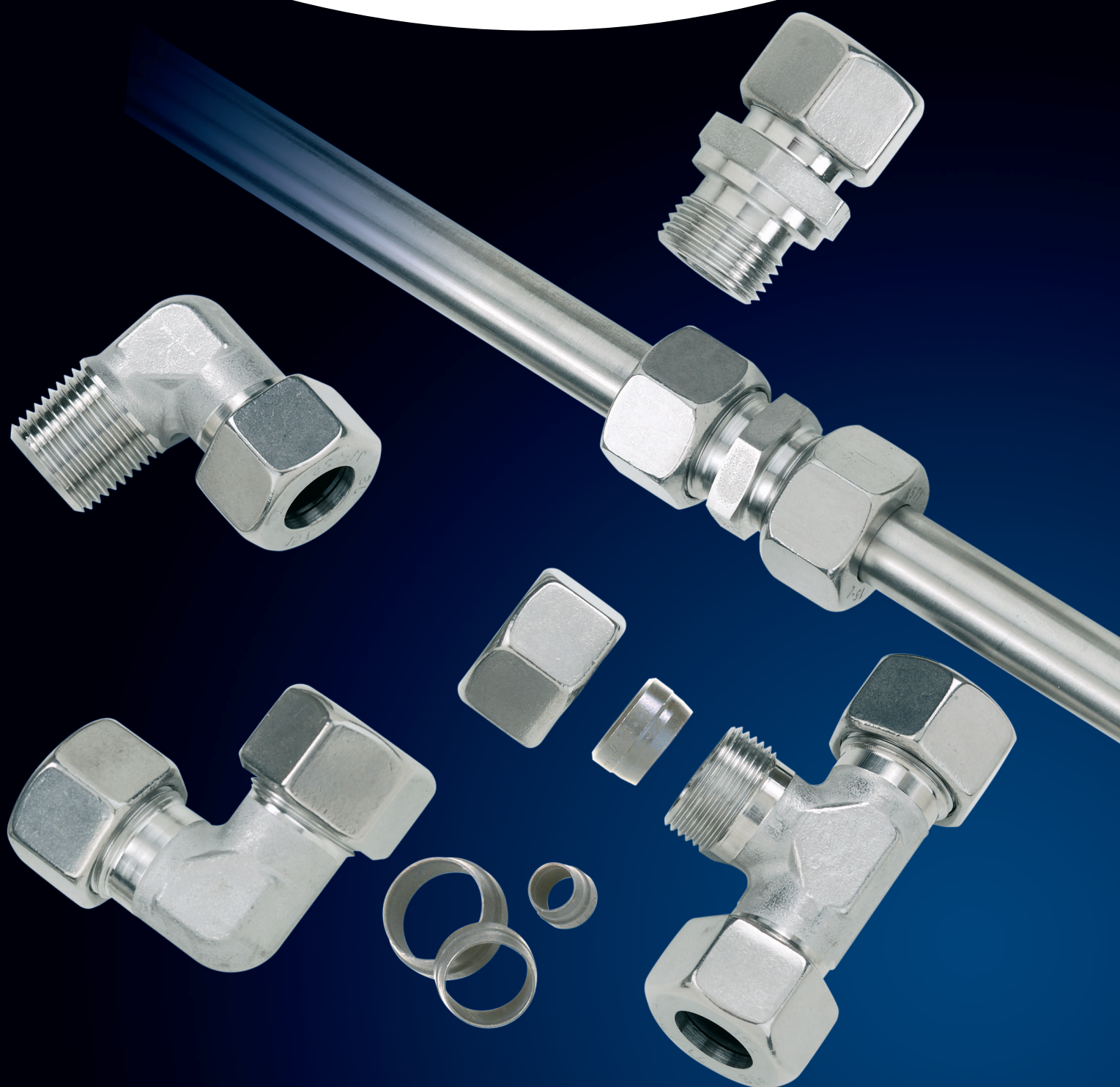


**Tubería hidráulica con y sin soldadura**  
**Accesorios de compresión DIN 2353**

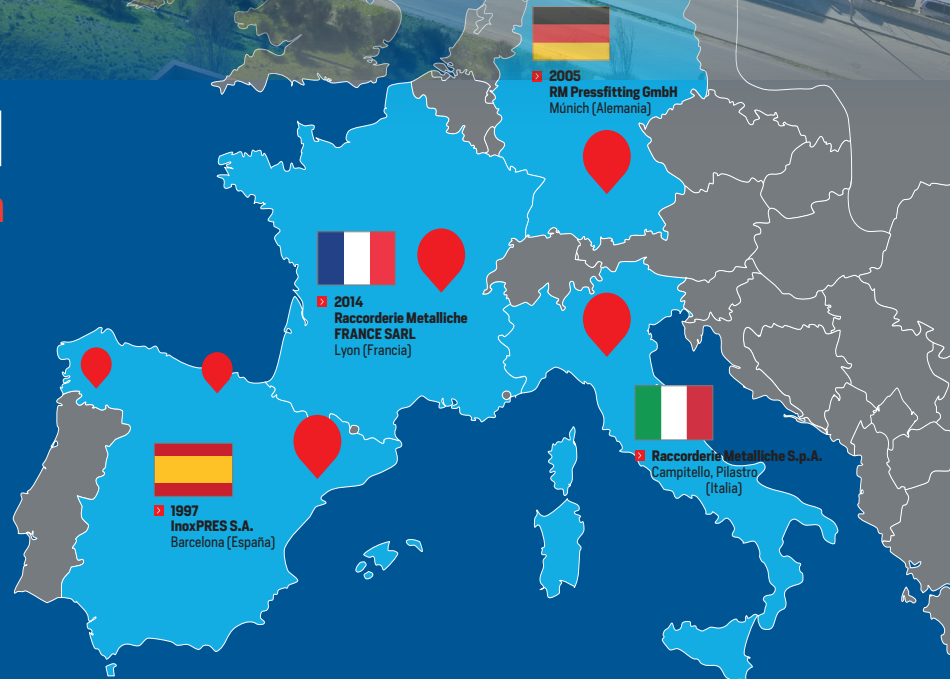
Acero inoxidable AISI 316





## Grupo RM

Calidad europea



- Superficie total de 105.000 m<sup>2</sup>
- Presencia en 60 países
- 100 certificaciones de producto

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| <b>TUBERÍAS</b>   | <b>10</b>                        | <b>UD</b><br>Unión doble   | <b>11</b> | <b>UR</b><br>Unión reducida                                     | <b>11</b> | <b>CD</b><br>Codo doble                                      | <b>13</b> | <b>T</b><br>Te igual  | <b>14</b> | <b>TR</b><br>Te reducida                                      | <b>14</b> |
|   |                                  |  |           |   | <b>12</b> |  |           |   |           |   | <b>15</b> |
| <b>CZ</b><br>Cruz   | <b>15</b>                        | <b>UM</b><br>Unión macho - Rosca BSPP cilíndrica DIN/ISO 228-1       | <b>16</b> | <b>UM-K</b><br>Unión macho - Rosca BSP cónica EN10226 (ISO 7-1) | <b>18</b> | <b>UH</b><br>Unión hembra - paralela                         | <b>18</b> | <b>TM-K</b><br>Te macho - Rosca BSP cónica EN10226 (ISO 7-1)              | <b>19</b> | <b>TM-C</b><br>Te macho - Rosca BSPP cilíndrica DIN/ISO 228-1 | <b>20</b> |
|   |                                  |  | <b>17</b> |   |           |  | <b>19</b> |   |           |   |           |
| <b>TML-K</b><br>Te macho - Rosca BSP cónica EN10226 (ISO 7-1) | <b>20</b>                        | <b>TML</b><br>Te extremo macho - Rosca BSPP cilíndrica DIN/ISO 228-1 | <b>20</b> | <b>CM-K</b><br>Codo macho - Rosca BSP cónica EN10226 (ISO 7-1)  | <b>21</b> | <b>CA</b><br>Codo adaptable                                  | <b>21</b> | <b>UMA</b><br>Unión macho adaptable - Rosca BSPP cilíndrica DIN/ISO 228-1 | <b>22</b> | <b>RA</b><br>Reducción adaptable                              | <b>22</b> |
|   |                                  |  |           |   |           |  |           |   |           |   | <b>23</b> |
| <b>TA</b><br>Te adaptable                                     | <b>24</b>                        | <b>PT</b><br>Pasamuros tubo-tubo                                     | <b>24</b> | <b>CP</b><br>Codo pasamuro                                      | <b>25</b> | <b>PST</b><br>Pasamuros - Soldar tubo-tubo                   | <b>25</b> | <b>TUR</b><br>Tuerca reducción - F241                                     | <b>26</b> | <b>MMH</b><br>Manguito HM - F246                              | <b>26</b> |
|   |                                  |  |           |   |           |  |           |   |           |   |           |
| <b>M</b><br>Machón  | <b>27</b>                        | <b>MR</b><br>Machón reducido   | <b>27</b> | <b>US</b><br>Unión para soldar                                  | <b>28</b> | <b>CS</b><br>Codo para soldar                                | <b>28</b> | <b>TAM</b><br>Tapón macho - F290  | <b>29</b> | <b>TAC</b><br>Tapón con tuerca para cono 24°                  | <b>29</b> |
|   |                                  |  |           |   |           |  |           |   |           |   |           |
| <b>TAT</b><br>Tapón para tubo                                 | <b>30</b>                        | <b>AT</b><br>Anillo templado y tratamiento protector                 | <b>30</b> | <b>TU</b><br>Tuerca DIN 3870 para anillo                        | <b>31</b> | <b>VART</b><br>Válvula anti-retorno tubo-tubo                | <b>31</b> | <b>CRF</b><br>Casquillo refuerzo para tubos metálicos                     | <b>32</b> | <b>VARH</b><br>Válvula anti-retorno unión hembra              | <b>32</b> |
|   |                                  |  |           |   |           |  |           |   |           |   |           |
| <b>VAN</b><br>Válvula   | <b>Herramienta</b><br>premontaje | <b>INOXPASTE</b>   | <b>33</b> | <b>VBAP</b><br>Válvula bola monoblock - PN 500 - 250°C          | <b>34</b> | <b>VBAPC</b><br>Válvula bola cuadrada monoblock - PN 315-500 | <b>34</b> | <b>ER</b><br>Enchufe rápido hembra KM y macho KS                          | <b>35</b> | <b>Abrazaderas para tubo</b><br>(serie ligera) DIN 3015       | <b>36</b> |
|   |                                  |  |           |   |           |  |           |   |           |   |           |

## 1. DESCRIPCIÓN

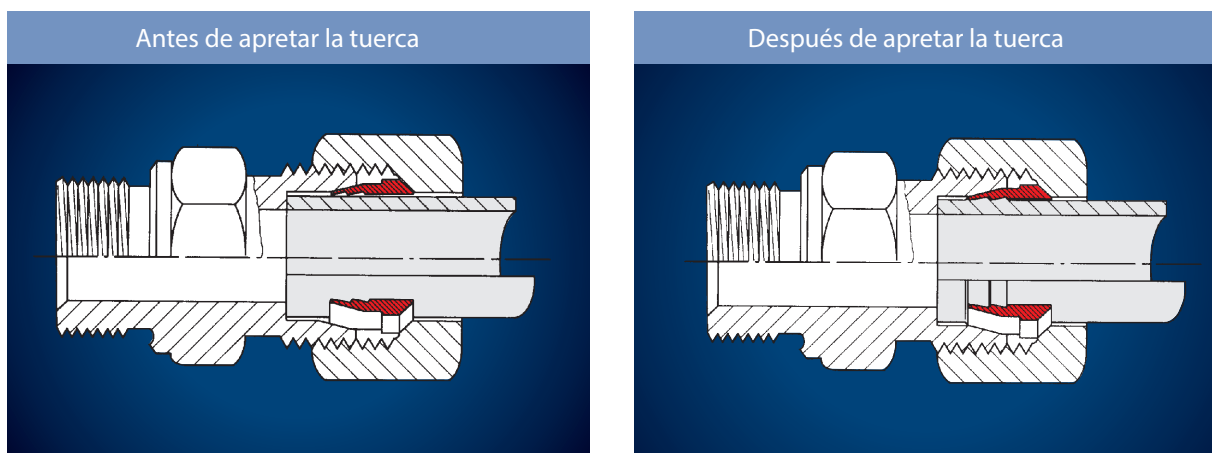
Los accesorios de compresión para tubos rígidos están fabricados de acuerdo a la norma DIN 2353, ISO 8434 con cono interior W, DIN 3861 (cono 24°). Las diferentes piezas que componen los accesorios son de fabricación standard. El tipo de conexiones roscadas descritas a continuación actúan básicamente como cierre hermético entre el accesorio y el tubo. La elección del tipo de accesorio debe adaptarse a cada uno de los requerimientos técnicos que se precisen.

Las diferentes piezas de conexión de los distintos sistemas pueden ser intercambiados entre sí.

### 1.1 Accesorios de compresión con anillo de doble filo.

La utilización de un anillo con doble filo ofrece ventajas en la mayoría de las aplicaciones. Cuando la tuerca de unión es apretada, el primer filo del anillo y posteriormente el segundo filo, se clavan dentro del tubo. La profundidad del hundimiento de las aristas del anillo está limitada por el diseño del mismo.

Al mismo tiempo, el anillo ha quedado colocado en forma de cuña entre el tubo y la pieza de conexión. Después de esta operación se habrá conseguido una excelente disposición de los diferentes componentes, tanto en la dirección radial como en la dirección axial.



Debido a la forma del perfil y la magnífica disposición, las fuerzas que se han aplicado a la conexión son distribuidas sobre toda la longitud del cono. Esto da una óptima protección contra las vibraciones, posibles tensiones de curvado y fluctuaciones de presión y temperatura.

Gracias a la alta calidad de los acabados, el apriete se realiza con una cierta facilidad. El riesgo de un apriete excesivo se reduce debido a la alta percepción en el momento del apriete, (después que los bordes se hayan clavado correctamente en el tubo). Un excesivo apriete apenas perjudica al conjunto del montaje.

## 2. NORMATIVA

- Los accesorios de compresión se ajustan a la norma DIN 2353, ISO8434
- El anillo (ovalillo) se suministra normalmente de doble filo (PDR)
- Terminal cónico para soldar según DIN 3865 / ISO 8434-4
- Tuercas para conexiones de compresión, según DIN 3870
- Conexiones a tubo según DIN 3861 y ISO 8434-1
- Roscas Métricas y conexiones, según DIN3852, sección 1 y 2
- Roscas NPT según ANSI /ASTM B 1.20.1-1983
- Roscas EN10226 (ISO 7-1) y ISO 228-1
- Roscas UN / UNF según SAE J514
- Material de los accesorios según DIN 3859:  
X6CrNiMoTi según DIN 17440 material (1.4571 y 1.4404)
- Juntas de FPM (vitón), bajo demanda PTF (teflón)

## 3. PRESIÓN

Para soportar las cargas de presión se establece una diferencia entre la presión nominal PN y la presión de trabajo PB. Por razones de seguridad, la resistencia a las cargas de presión depende de un máximo operativo permisible TB, y a su vez depende de los materiales y del sistema roscado de conexión. Por razones de seguridad también debemos tener en cuenta los golpes de presión.

### 3.1 Presión nominal PN

Es la presión comúnmente utilizada, (DIN2401), ver tabla.

En esta presión se considera un factor de seguridad de 4 veces, para presiones constantes.

Para diámetros superiores a 30 mm y presiones superiores a 300bar ( serie “S”), el factor de seguridad es de 3 veces.

| Serie                  | Ø Tubo  | Presión Nominal | Usos recomendados  |
|------------------------|---------|-----------------|--|
| <b>LL</b> baja presión | 4 - 12  | 100 bar         | Presiones máximas de PN100 (aire a presión, tuberías de plástico)  |
| <b>L</b> media presión | 6 - 10  | 500 bar         | Instalaciones hidráulicas de hasta PN250. Técnica de regulación y medición, papeleras, industria farmacéutica, contra incendios, pintura y barnices. |
|                        | 12 - 18 | 400 bar         |  |
|                        | 22 - 42 | 250 bar         |  |
| <b>S</b> alta presión  | 6 - 10  | 800 bar         | Instalaciones con fuertes golpes de ariete, industria naval, minería, industria química, petroquímica, con presiones desde PN250 hasta PN400         |
|                        | 12 - 16 | 630 bar         |  |
|                        | 20 - 38 | 420 bar         |  |

### 3.2 Presión trabajo PB

La presión de trabajo para un componente es la máxima presión interna permisible a la temperatura de trabajo, en base a los materiales determinados y al diseño.

#### 4. TEMPERATURA

En las conexiones roscadas de acero inoxidable las temperaturas operativas permisibles se encuentran entre los -60°C y los +400°C (DIN 17440).

Estos valores de temperatura se ven modificados cuando los accesorios llevan juntas de estanqueidad.

FKM (vitón) -25°C a +200°C

PTFM (teflón) -60°C a +200°C

Estos valores son aproximados y pueden variar dependiendo del medio y de las circunstancias de cada caso. En caso de duda, o si son utilizados materiales distintos en la misma conexión, deberán considerarse los límites de temperatura más baja de cada uno de los materiales.

#### 5. REDUCCIONES DE PRESIÓN

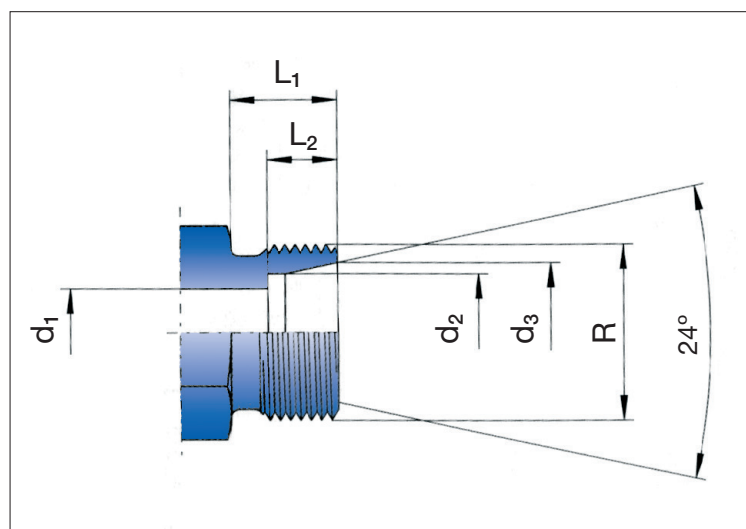
Como es sabido, la temperatura afecta a la presión. Cuando se produzcan cambios de temperatura, deben ser tomadas en cuenta las reducciones de presión especificadas en esta tabla para el acero inoxidable AISI-316.

| Temperatura  | Reducciones de Presión |
|--------------|------------------------|
| -60 a +20° C |                        |
| +50° C       | 4,5%                   |
| +100° C      | 11%                    |
| +200° C      | 20%                    |
| +300° C      | 29%                    |
| +400° C      | 33%                    |

## 6. DIMENSIONES DE LAS CONEXIONES HIDRÁULICAS.

Rosca macho según DIN 3853 / ISO 8434-1  
 Cono forma W según DIN 3861

| Serie | PN  | Tubo     | R          | d <sub>1</sub>          | d <sub>2</sub>          | d <sub>3</sub> | L <sub>1</sub> | L <sub>2</sub> |
|-------|-----|----------|------------|-------------------------|-------------------------|----------------|----------------|----------------|
| L     | 500 | 6        | M 12 x 1,5 | 4                       | 6                       | 8,1            | 10             | 7              |
|       |     | 8        | M 14 x 1,5 | 6                       | 8                       | 10,1           | 10             | 7              |
|       |     | 10       | M 16 x 1,5 | 8                       | 10                      | 12,3           | 11             | 7              |
|       | 400 | 12       | M 18 x 1,5 | 10                      | 12                      | 14,3           | 11             | 7              |
|       |     | 15       | M 22 x 1,5 | 12                      | 15                      | 17,3           | 12             | 7              |
|       |     | 18       | M 26 x 1,5 | 15                      | 18                      | 20,3           | 12             | 7,5            |
|       | 250 | 22       | M 30 x 2   | 19                      | 22                      | 24,3           | 14             | 7,5            |
|       |     | 28       | M 36 x 2   | 24                      | 28                      | 30,3           | 14             | 7,5            |
|       |     | 35       | M 45 x 2   | 30                      | (35,5 <sup>+0,1</sup> ) | 38             | 16             | 10,5           |
|       | 42  | M 52 x 2 | 36         | (42,3 <sup>+0,1</sup> ) | 45                      | 16             | 11             |                |
| S     | 800 | 6        | M 14 x 1,5 | 4                       | 6                       | 8,1            | 12             | 7              |
|       |     | 8        | M 16 x 1,5 | 5                       | 8                       | 10,1           | 12             | 7              |
|       |     | 10       | M 18 x 1,5 | 7                       | 10                      | 12,3           | 12             | 7,5            |
|       | 630 | 12       | M 20 x 1,5 | 8                       | 12                      | 14,3           | 12             | 7,5            |
|       |     | 14       | M 22 x 1,5 | 10                      | 14                      | 16,3           | 14             | 8              |
|       |     | 16       | M 24 x 1,5 | 12                      | 16                      | 18,3           | 14             | 8,5            |
|       | 420 | 20       | M 30 x 2   | 16                      | 20                      | 22,9           | 16             | 10,5           |
|       |     | 25       | M 36 x 2   | 20                      | 25                      | 27,9           | 18             | 12             |
|       |     | 30       | M 42 x 2   | 25                      | 30                      | 33             | 20             | 13,5           |
|       | 38  | M 52 x 2 | 32         | (38,3 <sup>+0,1</sup> ) | 41                      | 22             | 16             |                |



## 7. INSTRUCCIONES DE MONTAJE

Las instrucciones de montaje vienen especificadas en la norma DIN3859. Aunque parezca muy simple, se necesita un mínimo de profesionalidad y tener en cuenta algunas consideraciones.

- Seleccione el racor adecuado.
- Corte el tubo con sierra circular.
- Asegúrese de las longitudes del tubo.
- Utilice casquillos de refuerzo si fuera necesario.
- Los extremos rectos después de una curva deben ser como mínimo dos veces la altura de la tuerca.
- Engrase el cono interior, anillo y roscas para evitar el gripaje y facilitar el apriete.
- Utilice útil de premontaje.
- Marque con rotulador la tuerca y tubo.
- Apriete con una llave la tuerca hasta encontrar resistencia, aflojar media vuelta y reapretar con más fuerza. Comprobar que no gira el tubo.

### 7.1 Secuencia de montaje



1 No utilizar cortatubos.



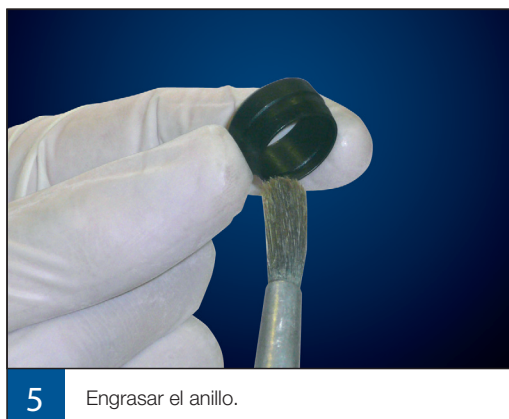
2 Cortar el tubo a escuadra con sierra circular. Máxima desviación 0,5°.



3 Desbarbar el tubo interior y exteriormente.



4 Engrasar con Inoxpaste el cono interior de 24° y la rosca exterior.



5 Engrasar el anillo.



6 Engrasar la tuerca de apriete





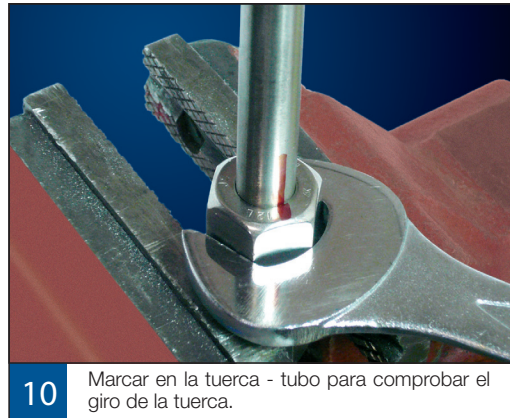
**7** Deslizar la tuerca y colocar el anillo cortante en el extremo del tubo.



**8** El extremo cortante debe estar en la dirección del cono 24°.



**9** Colocar el tubo - anillo - tuerca en el accesorio de premontaje.



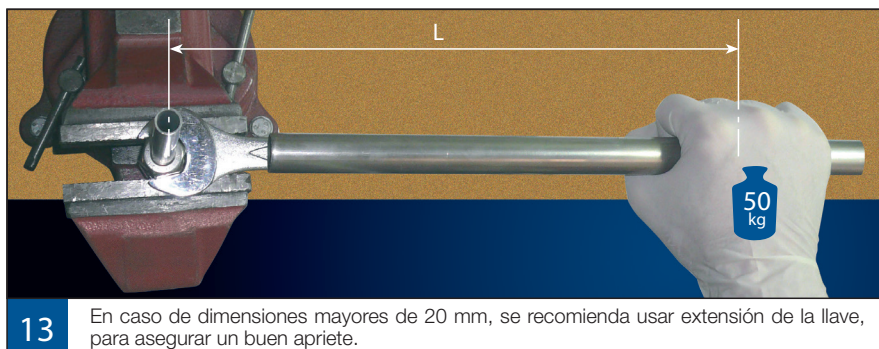
**10** Marcar en la tuerca - tubo para comprobar el giro de la tuerca.



**1** Apretar con una llave 1-1/2 vuelta.



**12** Colocar el racor premontado en el cuerpo. Apretar la tuerca 1/2 vuelta.



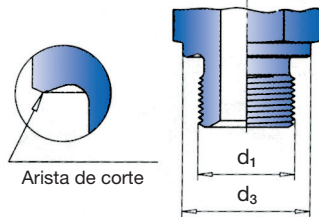
**13** En caso de dimensiones mayores de 20 mm, se recomienda usar extensión de la llave, para asegurar un buen apriete.

|      | L (cm) |
|------|--------|
| 20 S | 50     |
| 22 L | 40     |
| 25 S | 80     |
| 28 L | 50     |
| 30 S | 100    |
| 35 L | 80     |
| 38 S | 120    |
| 42 L | 100    |

## 8. ROSCAS MACHOS / HEMBRAS

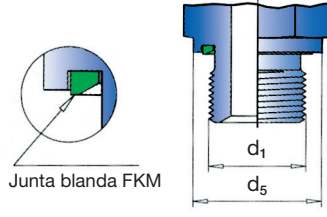
Roscas métricas ISO paralelas DIN13  
Rosca BSPP paralela DIN-ISO 228

**Rosca macho. Forma B**  
Estanqueidad: Arista de corte



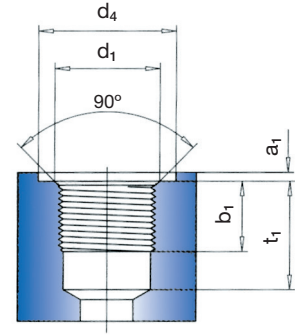
DIN 3852 parte 1 / parte 2

**Rosca macho. Forma E**  
Estanqueidad: Conjunta



DIN 3852 parte 1 / parte 2

**Agujero roscado. Forma X**  
Para roscas cónicas y paralelas

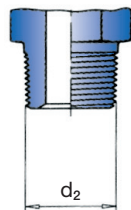


DIN 3852 parte 1 / parte 2

|            | d <sub>1</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | a <sub>1</sub> max | b <sub>1</sub> min | t <sub>1</sub> min | W |
|------------|----------------|----------------|----------------|----------------|--------------------|--------------------|--------------------|---|
| M 8 x 1    | 12             | 13             | 12             | 1              | 8                  | 13,5               | 0,1                |   |
| M 10 x 1   | 14             | 15             | 14             | 1              | 8                  | 13,5               | 0,1                |   |
| M 12 x 1,5 | 17             | 18             | 17             | 1,5            | 12                 | 18,5               | 0,1                |   |
| M 14 x 1,5 | 19             | 20             | 19             | 1,5            | 12                 | 18,5               | 0,1                |   |
| M 16 x 1,5 | 21             | 22             | 21,9           | 1,5            | 12                 | 18,5               | 0,1                |   |
| M 18 x 1,5 | 23             | 24             | 23,9           | 2              | 12                 | 18,5               | 0,1                |   |
| M 20 x 1,5 | 25             | 26             | 25,9           | 2              | 14                 | 20,5               | 0,1                |   |
| M 22 x 1,5 | 27             | 28             | 27             | 2,5            | 14                 | 20,5               | 0,1                |   |
| M 26 x 1,5 | 31             | 32             | 31,9           | 2,5            | 16                 | 22,5               | 0,2                |   |
| M 27 x 2   | 32             | 33             | 32             | 2,5            | 16                 | 24                 | 0,2                |   |
| M 33 x 2   | 39             | 40             | 39,9           | 2,5            | 18                 | 26                 | 0,2                |   |
| M 42 x 2   | 49             | 50             | 49,9           | 2,5            | 20                 | 28                 | 0,2                |   |
| M 48 x 2   | 55             | 56             | 55             | 2,5            | 22                 | 30                 | 0,2                |   |

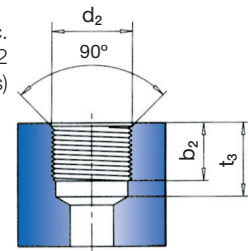
|            | d <sub>1</sub> | d <sub>3</sub> | d <sub>4</sub> | d <sub>5</sub> | a <sub>1</sub> max | b <sub>1</sub> min | t <sub>1</sub> min | W |
|------------|----------------|----------------|----------------|----------------|--------------------|--------------------|--------------------|---|
| G 1/8 A*   | 14             | 15             | 14             | 1              | 8                  | 13                 | 0,1                |   |
| G 1/4 A*   | 18             | 19             | 18,9           | 1,5            | 12                 | 18,5               | 0,1                |   |
| G 3/8 A*   | 22             | 23             | 22             | 2              | 12                 | 18,5               | 0,1                |   |
| G 1/2 A*   | 26             | 27             | 26,9           | 2,5            | 14                 | 22                 | 0,1                |   |
| G 3/4 A*   | 32             | 33             | 32             | 2,5            | 16                 | 24                 | 0,2                |   |
| G 1 A*     | 39             | 40             | 39,9           | 2,5            | 18                 | 27                 | 0,2                |   |
| G 1 1/4 A* | 49             | 50             | 49,9           | 2,5            | 20                 | 29                 | 0,2                |   |
| G 1 1/2 A* | 55             | 56             | 55             | 2,5            | 22                 | 31                 | 0,2                |   |

Roscas métricas cónicas DIN158  
Rosca BSPT cónica ISO-7



**Macho roscado forma C**  
DIN 3852 parte1/parte2  
Rosca cónica

**Agujero roscado forma Z** para acc.  
DIN 3852 parte1/parte2  
(solo para roscas cónicas)



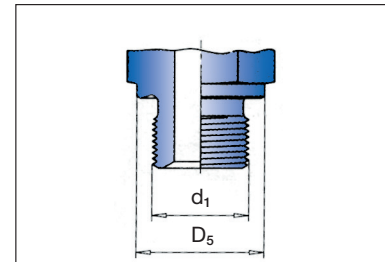
Roscas cónica exterior DIN158  
Tubo Rosca BSPP cónica DIN 3858

|                   | d <sub>2</sub> | b <sub>2</sub> min | t <sub>3</sub> min |
|-------------------|----------------|--------------------|--------------------|
| M 8 x 1 cónica    | 5,5            | 10                 |                    |
| M 10 x 1 cónica   | 5,5            | 10                 |                    |
| M 12 x 1,5 cónica | 8,5            | 13,5               |                    |
| M 14 x 1,5 cónica | 8,5            | 13,5               |                    |
| M 16 x 1,5 cónica | 8,5            | 13,5               |                    |
| M 18 x 1,5 cónica | 8,5            | 13,5               |                    |
| M 20 x 1,5 cónica | 10,5           | 15,5               |                    |
| M 22 x 1,5 cónica | 10,5           | 15,5               |                    |

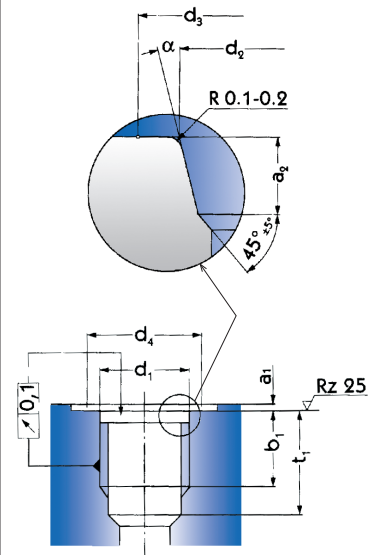
|              | d <sub>2</sub> | b <sub>2</sub> min | t <sub>3</sub> min |
|--------------|----------------|--------------------|--------------------|
| R 1/8 cónica | 5,5            | 9,5                |                    |
| R 1/4 cónica | 8,5            | 13,5               |                    |
| R 3/8 cónica | 8,5            | 13,5               |                    |
| R 1/2 cónica | 10,5           | 16,5               |                    |

Roscas métricas ISO = DIN 3852, ISO 6149  
UNF / rosca UN = SAE J514

| $d_1$      | $D_5$ | $d_{4 \text{ min}}$ | $d_3$ | $d_2^{+0,1}$ | $a_1 \text{ max}$ | $a_2$ | $t_1 \text{ min}$ | $b_1 \text{ min}$ | $\pm 1^\circ$ |
|------------|-------|---------------------|-------|--------------|-------------------|-------|-------------------|-------------------|---------------|
| M 8 x 1    | 10,9  | 17                  | 11    | 9,1          | 1                 | 1,6   | 11,5              | 10                | 12°           |
| M 10 x 1   | 12,9  | 20                  | 13    | 11,1         | 1                 | 1,6   | 11,5              | 10                | 12°           |
| M 12 x 1,5 | 16,9  | 22                  | 16    | 13,8         | 1,5               | 2,4   | 14                | 11,5              | 15°           |
| M 14 x 1,5 | 18,9  | 25                  | 18    | 15,8         | 1,5               | 2,4   | 14                | 11,5              | 15°           |
| M 16 x 1,5 | 20,9  | 27                  | 20    | 17,8         | 1,5               | 2,4   | 15,5              | 13                | 15°           |
| M 18 x 1,5 | 22,9  | 29                  | 22    | 19,8         | 2                 | 2,4   | 16,5              | 14,5              | 15°           |
| M 20 x 1,5 | 24,9  | 32                  | 24    | 21,8         | 2                 | 2,4   | 16,5              | 14                | 15°           |
| M 22 x 1,5 | 26,9  | 34                  | 26    | 23,8         | 2                 | 2,4   | 18                | 15,5              | 15°           |
| M 26 x 1,5 | 30,9  | 37                  | 31    | 29,05        | 2                 | 3,1   | 18,5              | 16                | 15°           |
| M 27 x 2   | 31,9  | 40                  | 32    | 29,4         | 2                 | 3,1   | 22                | 19                | 15°           |
| M 33 x 2   | 37,9  | 46                  | 38    | 35,4         | 2,5               | 3,1   | 22                | 19                | 15°           |
| M 42 x 2   | 47,9  | 56                  | 47    | 44,4         | 2,5               | 3,1   | 22,5              | 19,5              | 15°           |
| M 48 x 2   | 54,9  | 64                  | 53    | 50,4         | 2,5               | 3,1   | 25                | 22                | 15°           |



Macho roscado forma F con junta tórica (DIN 3852) parte 3  
Macho roscado UST con junta tórica (SAE J 514)



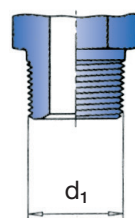
Agujero roscado forma W para acc. (DIN 3852 parte 3 / ISO 6149)  
Agujeros roscados con junta tórica (SAE J 514)

Roscas métricas ISO = DIN 3852, ISO 6149  
UNF / rosca UN = SAE J514

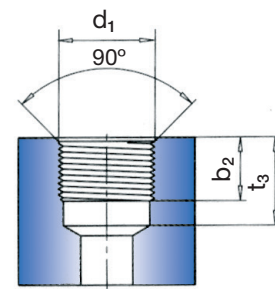
| $d_1$       | $D_5$ | $d_{4 \text{ min}}$ | $d_3$ | $d_2^{+0,1}$ | $a_1 \text{ max}$ | $a_2$ | $t_1 \text{ min}$ | $b_1 \text{ min}$ | $\pm 1^\circ$ |
|-------------|-------|---------------------|-------|--------------|-------------------|-------|-------------------|-------------------|---------------|
| 7/16-20UNF  | 14,4  | 21                  | 15    | 12,4         | 1,6               | 14    | 14                | 11,5              | 12°           |
| 9/16-18UNF  | 17,6  | 25                  | 18    | 15,6         | 1,6               | 15,5  | 15,5              | 12,7              | 12°           |
| 3/4-16UNF   | 22,3  | 30                  | 23    | 20,6         | 2,4               | 17,5  | 17,5              | 14,3              | 15°           |
| 7/8-14UNF   | 25,5  | 34                  | 26    | 23,9         | 2,4               | 20    | 20                | 16,7              | 15°           |
| 11/16-12UNF | 31,9  | 41                  | 32    | 29,2         | 2,4               | 23    | 23                | 19                | 15°           |
| 15/16-12UNF | 38,2  | 49                  | 39    | 35,5         | 3,2               | 23    | 23                | 19                | 15°           |
| 15/8-12UNF  | 47,7  | 58                  | 48    | 43,5         | 3,2               | 23    | 23                | 19                | 15°           |

Rosca NPT =  
ANSI / ASME B1.20.1-1983

| $d_1$          | $t_3 \text{ min}$ | $b_2 \text{ min}$ |
|----------------|-------------------|-------------------|
| 1/8-27 NPT     | 11,6              | 6,9               |
| 1/4-18 NPT     | 16,4              | 10                |
| 3/8-18 NPT     | 17,4              | 10,3              |
| 1/2-14 NPT     | 22,6              | 13,6              |
| 3/4-14 NPT     | 23,1              | 14,1              |
| 1-11,5 NPT     | 27,8              | 16,8              |
| 1 1/4-11,5 NPT | 28,3              | 17,3              |
| 1 1/2-11,5 NPT | 28,3              | 17,3              |



Macho roscado NPT  
ANSI / ASME B1.20.1-1983



Agujero roscado NPT  
ANSI / ASME B1.20.1-1983

Tubos de acero inoxidable con soldadura DIN17457 (EN 10217-7)

| Código    | Dimensión mm | Peso Kg/m | Presión de cálculo (bar) |
|-----------|--------------|-----------|--------------------------|
| 114006x10 | 6 x 1        | 0,125     | 300                      |
| 114008x10 | 8 x 1        | 0,175     | 231                      |
| 114010x10 | 10 x 1       | 0,225     | 200                      |
| 114012x12 | 12 x 1,2     | 0,322     | 192                      |
| 114012x15 | 12 x 1,5     | 0,394     | 244                      |
| 114015x15 | 15 x 1,5     | 0,507     | 200                      |
| 114015x20 | 15 x 2       | 0,651     | 258                      |
| 114016x15 | 16 x 1,5     | 0,545     | 180                      |
| 114018x20 | 18 x 2       | 0,801     | 219                      |
| 114020x20 | 20 x 2       | 0,901     | 192                      |
| 114022x20 | 22 x 2       | 1,002     | 182                      |
| 114025x20 | 25 x 2       | 1,134     | 154                      |
| 114028x20 | 28 x 2       | 1,302     | 145                      |
| 114030x25 | 30 x 2,5     | 1,722     | 160                      |
| 114038x30 | 38 x 3       | 2,630     | 151                      |



- Recocido, máxima dureza 90HRB
- Laminado en frío
- Tolerancia D4/T3
- Barras de 6 mts. longitud
- Acabado exterior pulido grano 180/220

Tubos de acero inoxidable sin soldadura DIN17458 (EN 10216-5)

| Código    | Dimensión mm | Peso Kg/m | Presión de cálculo DIN 2413-III (bar) |
|-----------|--------------|-----------|---------------------------------------|
| 124006x10 | 6 x 1        | 0.125     | 374                                   |
| 124008x10 | 8 x 1        | 0.175     | 289                                   |
| 124008x15 | 8 x 1,5      | 0.244     | 414                                   |
| 124010x10 | 10 x 1       | 0.225     | 249                                   |
| 124010x15 | 10 x 1,5     | 0.319     | 358                                   |
| 124010x20 | 10 x 2       | 0.401     | 460                                   |
| 124012x10 | 12 x 1       | 0.275     | 210                                   |
| 124012x15 | 12 x 1,5     | 0.394     | 305                                   |
| 124012x20 | 12 x 2       | 0.501     | 393                                   |
| 124014x15 | 14 x 1,5     | 0.470     | 269                                   |
| 124014x20 | 14 x 2       | 0.601     | 343                                   |
| 124015x15 | 15 x 1,5     | 0.507     | 249                                   |
| 124015x20 | 15 x 2       | 0.651     | 323                                   |
| 124016x15 | 16 x 1,5     | 0.545     | 238                                   |
| 124016x20 | 16 x 2       | 0.701     | 310                                   |
| 124018x15 | 18 x 1,5     | 0.620     | 210                                   |
| 124020x20 | 20 x 2       | 0.901     | 253                                   |
| 124020x30 | 20 x 3       | 1.277     | 358                                   |
| 124022x15 | 22 x 1,5     | 0.770     | 174                                   |
| 124022x20 | 22 x 2       | 1.002     | 228                                   |
| 124025x30 | 25 x 3       | 1.653     | 294                                   |
| 124028x20 | 28 x 2       | 1.302     | 182                                   |
| 124030x25 | 30 x 2,5     | 1.722     | 210                                   |
| 124030x40 | 30 x 4       | 2.605     | 323                                   |
| 124038x30 | 38 x 3       | 2.630     | 200                                   |
| 124038x40 | 38 x 4       | 3.405     | 261                                   |



- Recocido, máxima dureza 90HRB
- Tolerancia D4/T3
- Barras de 6 mts. longitud
- Acabado exterior pulido grano 180/220

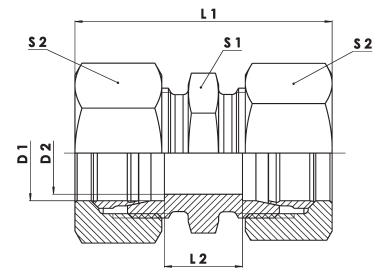
## ACERO INOXIDABLE AISI-316

### Unión doble

### UD

| Serie    | D1   | D2   | L1   | L2 | S1 | S2    | Peso | PN         | Código     |
|----------|------|------|------|----|----|-------|------|------------|------------|
| <b>L</b> | 06   | 4,0  | 40   | 10 | 12 | 14    | 35   | 500        | 55 UD 06 L |
|          | 08   | 6,0  | 41   | 11 | 14 | 17    | 50   | 500        | 55 UD 08 L |
|          | 10   | 8,0  | 44   | 13 | 17 | 19    | 65   | 500        | 55 UD 10 L |
|          | 12   | 10,0 | 45   | 14 | 19 | 22    | 85   | 400        | 55 UD 12 L |
|          | 15   | 12,0 | 48   | 16 | 24 | 27    | 140  | 400        | 55 UD 15 L |
|          | 18   | 15,0 | 50   | 16 | 27 | 32    | 201  | 400        | 55 UD 18 L |
|          | 22   | 19,0 | 54   | 20 | 32 | 36    | 274  | 250        | 55 UD 22 L |
|          | 28   | 24,0 | 55   | 21 | 41 | 41    | 347  | 250        | 55 UD 28 L |
|          | 35   | 30,0 | 65,5 | 20 | 46 | 50    | 543  | 250        | 55 UD 35 L |
| 42       | 36,0 | 68   | 21   | 55 | 60 | 790   | 250  | 55 UD 42 L |            |
| <b>S</b> | 06   | 4,0  | 46   | 16 | 14 | 17    | 65   | 800        | 55 UD 06 S |
|          | 08   | 5,0  | 48   | 18 | 17 | 19    | 83   | 800        | 55 UD 08 S |
|          | 10   | 7,0  | 51   | 17 | 19 | 22    | 110  | 800        | 55 UD 10 S |
|          | 12   | 8,0  | 53   | 19 | 22 | 24    | 135  | 630        | 55 UD 12 S |
|          | 14   | 10,0 | 59   | 22 | 24 | 27    | 187  | 630        | 55 UD 14 S |
|          | 16   | 12,0 | 60   | 21 | 27 | 30    | 229  | 630        | 55 UD 16 S |
|          | 20   | 16,0 | 69   | 23 | 32 | 36    | 371  | 420        | 55 UD 20 S |
|          | 25   | 20,0 | 77   | 26 | 41 | 46    | 672  | 420        | 55 UD 25 S |
|          | 30   | 25,0 | 83   | 27 | 46 | 50    | 821  | 420        | 55 UD 30 S |
| 38       | 32,0 | 95   | 29   | 55 | 60 | 1.215 | 420  | 55 UD 38 S |            |

Peso = gr./u.  
PN = bar



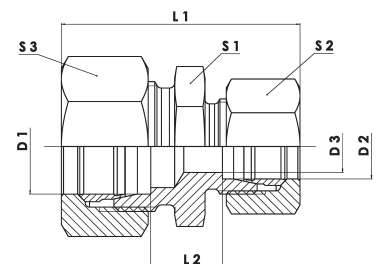
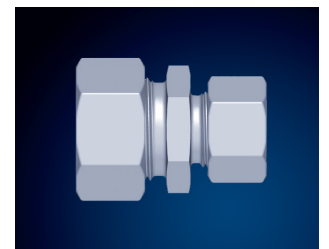
### Unión reducida

### UR

| Serie    | D1 | D2 | D3 | L1 | L2 | S1 | S2 | S3 | Peso | PN  | Código       |
|----------|----|----|----|----|----|----|----|----|------|-----|--------------|
| <b>L</b> | 08 | 06 | 4  | 41 | 11 | 14 | 14 | 17 | 51   | 500 | 55 UR 0806 L |
|          | 10 | 06 | 4  | 42 | 12 | 17 | 14 | 19 | 58   | 500 | 55 UR 1006 L |
|          | 10 | 08 | 6  | 42 | 12 | 17 | 17 | 19 | 58   | 500 | 55 UR 1008 L |
|          | 12 | 06 | 4  | 43 | 13 | 19 | 14 | 22 | 63   | 400 | 55 UR 1206 L |
|          | 12 | 08 | 6  | 43 | 13 | 19 | 17 | 22 | 70   | 400 | 55 UR 1208 L |
|          | 12 | 10 | 8  | 44 | 14 | 19 | 19 | 22 | 80   | 400 | 55 UR 1210 L |
|          | 15 | 06 | 4  | 44 | 14 | 24 | 14 | 27 | 100  | 400 | 55 UR 1506 L |
|          | 15 | 08 | 6  | 44 | 14 | 24 | 17 | 27 | 105  | 400 | 55 UR 1508 L |
|          | 15 | 10 | 8  | 45 | 15 | 24 | 19 | 27 | 110  | 400 | 55 UR 1510 L |
|          | 15 | 12 | 10 | 45 | 15 | 24 | 22 | 27 | 132  | 400 | 55 UR 1512 L |
|          | 18 | 08 | 6  | 46 | 14 | 27 | 17 | 32 | 115  | 400 | 55 UR 1808 L |
|          | 18 | 10 | 8  | 47 | 15 | 27 | 19 | 32 | 145  | 400 | 55 UR 1810 L |
|          | 18 | 12 | 10 | 47 | 15 | 27 | 22 | 32 | 175  | 400 | 55 UR 1812 L |
|          | 18 | 15 | 12 | 48 | 16 | 27 | 27 | 32 | 175  | 400 | 55 UR 1815 L |

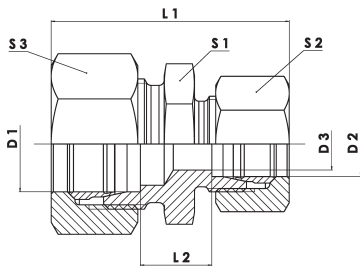
Sigue...

Peso = gr./u.  
PN = bar



UR

Unión reducida



| Serie | D1 | D2 | D3 | L1   | L2   | S1   | S2 | S3  | Peso | PN           | Código       |              |
|-------|----|----|----|------|------|------|----|-----|------|--------------|--------------|--------------|
| L     | 22 | 10 | 8  | 49   | 17   | 32   | 19 | 36  | 198  | 250          | 55 UR 2210 L |              |
|       | 22 | 12 | 10 | 49   | 17   | 32   | 22 | 36  | 200  | 250          | 55 UR 2212 L |              |
|       | 22 | 15 | 12 | 50   | 18   | 32   | 27 | 36  | 220  | 250          | 55 UR 2215 L |              |
|       | 22 | 18 | 15 | 51   | 18   | 32   | 32 | 36  | 274  | 250          | 55 UR 2218 L |              |
|       | 28 | 10 | 8  | 50   | 18   | 41   | 19 | 41  | 250  | 250          | 55 UR 2810 L |              |
|       | 28 | 12 | 10 | 50   | 18   | 41   | 22 | 41  | 270  | 250          | 55 UR 2812 L |              |
|       | 28 | 15 | 12 | 51   | 19   | 41   | 27 | 41  | 296  | 250          | 55 UR 2815 L |              |
|       | 28 | 18 | 15 | 52   | 19   | 41   | 32 | 41  | 307  | 250          | 55 UR 2818 L |              |
|       | 28 | 22 | 19 | 54   | 21   | 41   | 36 | 41  | 309  | 250          | 55 UR 2822 L |              |
|       | 35 | 15 | 12 | 56   | 19   | 46   | 32 | 50  | 390  | 250          | 55 UR 3515 L |              |
|       | 35 | 18 | 15 | 57   | 19   | 46   | 32 | 50  | 410  | 250          | 55 UR 3518 L |              |
|       | 35 | 22 | 19 | 59   | 21   | 46   | 36 | 50  | 434  | 250          | 55 UR 3522 L |              |
|       | 35 | 28 | 24 | 59   | 21   | 46   | 41 | 50  | 455  | 250          | 55 UR 3528 L |              |
|       | 42 | 15 | 12 | 59   | 21   | 55   | 27 | 60  | 550  | 250          | 55 UR 4215 L |              |
|       | 42 | 18 | 15 | 60   | 20   | 55   | 32 | 60  | 590  | 250          | 55 UR 4218 L |              |
|       | 42 | 22 | 19 | 62   | 22   | 55   | 36 | 60  | 610  | 250          | 55 UR 4222 L |              |
|       | 42 | 28 | 24 | 62   | 22   | 55   | 41 | 60  | 650  | 250          | 55 UR 4228 L |              |
|       | 42 | 35 | 30 | 66   | 21   | 55   | 50 | 60  | 786  | 250          | 55 UR 4235 L |              |
|       | S  | 08 | 06 | 4    | 48   | 18   | 17 | 17  | 19   | 85           | 800          | 55 UR 0806 S |
|       |    | 10 | 06 | 4    | 49   | 17,5 | 19 | 17  | 22   | 95           | 800          | 55 UR 1006 S |
| 10    |    | 08 | 5  | 49   | 17,5 | 19   | 19 | 22  | 100  | 800          | 55 UR 1008 S |              |
| 12    |    | 06 | 4  | 51   | 19,5 | 22   | 17 | 24  | 105  | 630          | 55 UR 1206 S |              |
| 12    |    | 08 | 5  | 51   | 19,5 | 22   | 19 | 24  | 115  | 630          | 55 UR 1208 S |              |
| 12    |    | 10 | 7  | 52   | 19   | 22   | 22 | 24  | 125  | 630          | 55 UR 1210 S |              |
| 14    |    | 06 | 4  | 54   | 21   | 24   | 17 | 27  | 125  | 630          | 55 UR 1406 S |              |
| 14    |    | 08 | 5  | 54   | 21   | 24   | 19 | 27  | 140  | 630          | 55 UR 1408 S |              |
| 14    |    | 10 | 7  | 55   | 20,5 | 24   | 22 | 27  | 125  | 630          | 55 UR 1410 S |              |
| 14    |    | 12 | 8  | 55   | 20,5 | 24   | 24 | 27  | 182  | 630          | 55 UR 1412 S |              |
| 16    |    | 06 | 4  | 54   | 20,5 | 27   | 17 | 30  | 170  | 630          | 55 UR 1606 S |              |
| 16    |    | 08 | 5  | 54   | 20,5 | 27   | 19 | 30  | 180  | 630          | 55 UR 1608 S |              |
| 16    |    | 10 | 7  | 55   | 20   | 27   | 22 | 30  | 185  | 630          | 55 UR 1610 S |              |
| 16    |    | 12 | 8  | 55   | 20   | 27   | 24 | 30  | 190  | 630          | 55 UR 1612 S |              |
| 16    |    | 14 | 10 | 58   | 21,5 | 27   | 27 | 30  | 215  | 630          | 55 UR 1614 S |              |
| 20    |    | 06 | 4  | 59   | 22,5 | 32   | 17 | 36  | 230  | 420          | 55 UR 2006 S |              |
| 20    |    | 08 | 5  | 59   | 22,5 | 32   | 19 | 36  | 250  | 420          | 55 UR 2008 S |              |
| 20    |    | 10 | 7  | 60   | 22   | 32   | 22 | 36  | 270  | 420          | 55 UR 2010 S |              |
| 20    |    | 12 | 8  | 60   | 22   | 32   | 24 | 36  | 312  | 420          | 55 UR 2012 S |              |
| 20    |    | 14 | 10 | 63   | 23,5 | 32   | 27 | 36  | 300  | 420          | 55 UR 2014 S |              |
| 20    |    | 16 | 12 | 63   | 23   | 32   | 30 | 36  | 315  | 420          | 55 UR 2016 S |              |
| 25    |    | 06 | 4  | 64   | 25   | 41   | 17 | 46  | 450  | 420          | 55 UR 2506 S |              |
| 25    |    | 08 | 5  | 64   | 25   | 41   | 19 | 46  | 465  | 420          | 55 UR 2508 S |              |
| 25    |    | 10 | 7  | 65   | 24,5 | 41   | 22 | 46  | 480  | 420          | 55 UR 2510 S |              |
| 25    |    | 12 | 8  | 65   | 26   | 41   | 24 | 46  | 500  | 420          | 55 UR 2512 S |              |
| 25    | 14 | 10 | 68 | 24,5 | 41   | 27   | 46 | 545 | 420  | 55 UR 2514 S |              |              |

Sigue...

Peso = gr./u.  
PN = bar

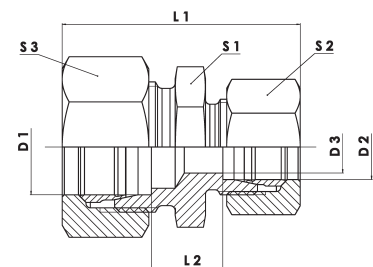
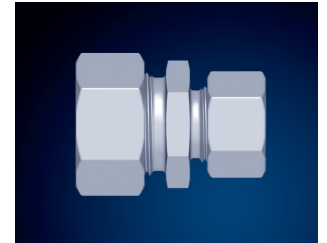
## ACERO INOXIDABLE AISI-316

### Unión reducida

### UR

| Serie    | D1 | D2 | D3 | L1 | L2   | S1 | S2 | S3 | Peso | PN  | Código       |
|----------|----|----|----|----|------|----|----|----|------|-----|--------------|
| <b>S</b> | 25 | 16 | 12 | 68 | 25,5 | 41 | 30 | 46 | 552  | 420 | 55 UR 2516 S |
|          | 25 | 20 | 16 | 71 | 25,5 | 41 | 36 | 46 | 564  | 420 | 55 UR 2520 S |
|          | 30 | 10 | 7  | 68 | 25   | 46 | 22 | 50 | 548  | 420 | 55 UR 3010 S |
|          | 30 | 12 | 8  | 68 | 25   | 46 | 24 | 50 | 643  | 420 | 55 UR 3012 S |
|          | 30 | 14 | 10 | 69 | 24,5 | 46 | 27 | 50 | 580  | 420 | 55 UR 3014 S |
|          | 30 | 16 | 12 | 71 | 26   | 46 | 30 | 50 | 632  | 420 | 55 UR 3016 S |
|          | 30 | 20 | 16 | 74 | 26   | 46 | 36 | 50 | 778  | 420 | 55 UR 3020 S |
|          | 30 | 25 | 20 | 77 | 26,5 | 46 | 46 | 50 | 802  | 420 | 55 UR 3025 S |
|          | 38 | 10 | 7  | 75 | 27,5 | 55 | 22 | 60 | 870  | 420 | 55 UR 3810 S |
|          | 38 | 12 | 8  | 75 | 27,5 | 55 | 24 | 60 | 885  | 420 | 55 UR 3812 S |
|          | 38 | 14 | 10 | 78 | 29   | 55 | 27 | 60 | 910  | 420 | 55 UR 3814 S |
|          | 38 | 16 | 12 | 78 | 28,5 | 55 | 30 | 60 | 925  | 420 | 55 UR 3816 S |
|          | 38 | 20 | 16 | 81 | 28,5 | 55 | 36 | 60 | 975  | 420 | 55 UR 3820 S |
|          | 38 | 25 | 20 | 84 | 29   | 55 | 46 | 60 | 1090 | 420 | 55 UR 3825 S |
|          | 38 | 30 | 25 | 87 | 29,5 | 55 | 50 | 60 | 1216 | 420 | 55 UR 3830 S |

Peso = gr./u.  
PN = bar

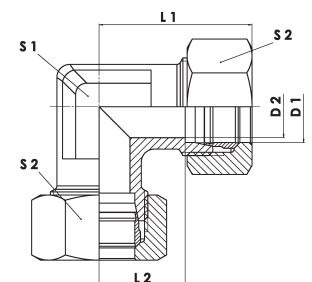


### Codo doble

### CD

| Serie    | D1 | D2   | L1   | L2   | S1 | S2    | Peso  | PN         | Código     |
|----------|----|------|------|------|----|-------|-------|------------|------------|
| <b>L</b> | 06 | 4    | 27   | 12   | 12 | 14    | 42    | 500        | 55 CD 06 L |
|          | 08 | 6    | 29   | 14   | 12 | 17    | 59    | 500        | 55 CD 08 L |
|          | 10 | 8    | 30,5 | 15   | 14 | 19    | 74    | 500        | 55 CD 10 L |
|          | 12 | 10   | 32,5 | 17   | 17 | 22    | 103   | 400        | 55 CD 12 L |
|          | 15 | 12   | 37   | 21   | 19 | 27    | 169   | 400        | 55 CD 15 L |
|          | 18 | 15   | 40,5 | 23,5 | 24 | 32    | 248   | 400        | 55 CD 18 L |
|          | 22 | 19   | 44,5 | 27,5 | 27 | 36    | 320   | 250        | 55 CD 22 L |
|          | 28 | 24   | 47,5 | 30,5 | 36 | 41    | 454   | 250        | 55 CD 28 L |
|          | 35 | 30   | 57   | 34,5 | 41 | 50    | 675   | 250        | 55 CD 35 L |
| 42       | 36 | 63,5 | 40   | 50   | 60 | 1.070 | 250   | 55 CD 42 L |            |
| <b>S</b> | 06 | 4    | 31   | 16   | 12 | 17    | 74    | 800        | 55 CD 06 S |
|          | 08 | 5    | 32   | 17   | 14 | 19    | 95    | 800        | 55 CD 08 S |
|          | 10 | 7    | 34,5 | 17,5 | 17 | 22    | 128   | 800        | 55 CD 10 S |
|          | 12 | 8    | 38,5 | 21,5 | 17 | 24    | 159   | 630        | 55 CD 12 S |
|          | 14 | 10   | 40,5 | 22   | 19 | 27    | 210   | 630        | 55 CD 14 S |
|          | 16 | 12   | 44   | 24,5 | 24 | 30    | 260   | 630        | 55 CD 16 S |
|          | 20 | 16   | 49,5 | 26,5 | 27 | 36    | 410   | 420        | 55 CD 20 S |
|          | 25 | 20   | 55,5 | 30   | 36 | 46    | 776   | 420        | 55 CD 25 S |
|          | 30 | 25   | 63,5 | 35,5 | 41 | 50    | 1.003 | 420        | 55 CD 30 S |
| 38       | 32 | 74   | 41   | 50   | 60 | 1.535 | 420   | 55 CD 38 S |            |

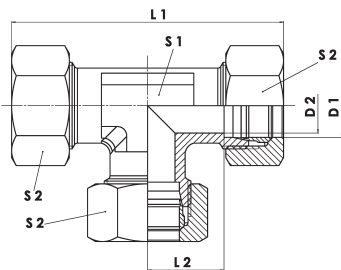
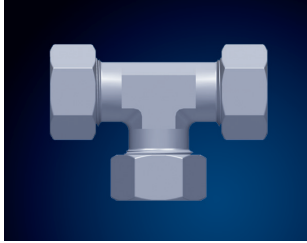
Peso = gr./u.  
PN = bar



## ACERO INOXIDABLE AISI-316

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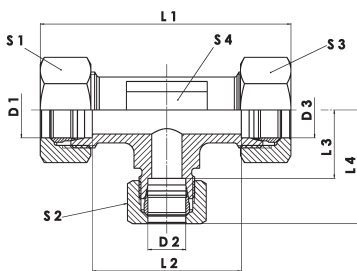
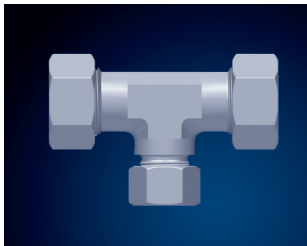


| Serie | D1 | D2   | L1  | L2   | S1 | S2 | Peso  | PN  | Código    |
|-------|----|------|-----|------|----|----|-------|-----|-----------|
| L     | 06 | 4,0  | 54  | 12,0 | 12 | 14 | 51    | 500 | 55 T 06 L |
|       | 08 | 6,0  | 58  | 14,0 | 12 | 17 | 85    | 500 | 55 T 08 L |
|       | 10 | 8,0  | 61  | 15,0 | 14 | 19 | 106   | 500 | 55 T 10 L |
|       | 12 | 10,0 | 65  | 17,0 | 17 | 22 | 140   | 400 | 55 T 12 L |
|       | 15 | 12,0 | 74  | 21,0 | 19 | 27 | 240   | 400 | 55 T 15 L |
|       | 18 | 15,0 | 81  | 23,5 | 24 | 32 | 348   | 400 | 55 T 18 L |
|       | 22 | 19,0 | 89  | 27,5 | 27 | 36 | 468   | 250 | 55 T 22 L |
|       | 28 | 24,0 | 95  | 30,5 | 36 | 41 | 665   | 250 | 55 T 28 L |
|       | 35 | 30,0 | 114 | 34,5 | 41 | 50 | 1.025 | 250 | 55 T 35 L |
|       | 42 | 36,0 | 127 | 40,0 | 50 | 60 | 1.500 | 250 | 55 T 42 L |
| S     | 06 | 4,0  | 62  | 16,0 | 12 | 17 | 110   | 800 | 55 T 06 S |
|       | 08 | 5,0  | 64  | 17,0 | 14 | 19 | 134   | 800 | 55 T 08 S |
|       | 10 | 7,0  | 69  | 17,5 | 17 | 22 | 190   | 800 | 55 T 10 S |
|       | 12 | 8,0  | 77  | 21,5 | 17 | 24 | 227   | 630 | 55 T 12 S |
|       | 14 | 10,0 | 81  | 22,0 | 19 | 27 | 300   | 630 | 55 T 14 S |
|       | 16 | 12,0 | 88  | 24,5 | 24 | 30 | 390   | 630 | 55 T 16 S |
|       | 20 | 16,0 | 99  | 26,5 | 27 | 36 | 590   | 420 | 55 T 20 S |
|       | 25 | 20,0 | 111 | 30,0 | 36 | 46 | 1.180 | 420 | 55 T 25 S |
|       | 30 | 25,0 | 127 | 35,5 | 41 | 50 | 1.430 | 420 | 55 T 30 S |
|       | 38 | 32,0 | 148 | 41,0 | 50 | 60 | 2.010 | 420 | 55 T 38 S |

Peso = gr./u.  
PN = bar

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| Serie | D1 | D2 | D3 | L1 | L2   | L3   | L4   | S1 | S2 | S3 | S4 | Peso | PN  | Código         |
|-------|----|----|----|----|------|------|------|----|----|----|----|------|-----|----------------|
| L     | 06 | 08 | 06 | 58 | 28   | 14   | 29   | 14 | 17 | 14 | 12 | 82   | 500 | 55 TR 060806 L |
|       | 06 | 10 | 06 | 60 | 30   | 15   | 30,5 | 14 | 19 | 14 | 14 | 97   | 500 | 55 TR 061006 L |
|       | 08 | 06 | 08 | 58 | 28   | 14   | 29   | 17 | 14 | 17 | 12 | 109  | 500 | 55 TR 080608 L |
|       | 08 | 10 | 08 | 60 | 30   | 15   | 30,5 | 17 | 19 | 17 | 14 | 100  | 500 | 55 TR 081008 L |
|       | 10 | 06 | 10 | 61 | 30   | 15   | 30   | 19 | 14 | 19 | 14 | 113  | 500 | 55 TR 100610 L |
|       | 10 | 08 | 10 | 61 | 30   | 15   | 30   | 19 | 17 | 19 | 14 | 113  | 500 | 55 TR 100810 L |
|       | 10 | 10 | 08 | 61 | 30   | 17   | 30   | 19 | 19 | 14 | 14 | 208  | 500 | 55 TR 101008 L |
|       | 10 | 15 | 10 | 73 | 42   | 17   | 37   | 19 | 27 | 19 | 19 | 145  | 500 | 55 TR 101510 L |
|       | 12 | 08 | 12 | 65 | 34   | 17   | 32   | 22 | 17 | 22 | 17 | 150  | 400 | 55 TR 120812 L |
|       | 12 | 10 | 12 | 65 | 34   | 17   | 32,5 | 22 | 19 | 22 | 17 | 150  | 400 | 55 TR 121012 L |
|       | 12 | 12 | 10 | 65 | 34   | 21   | 32,5 | 22 | 22 | 19 | 17 | 276  | 400 | 55 TR 121210 L |
|       | 12 | 18 | 12 | 79 | 48   | 21   | 40,5 | 22 | 32 | 22 | 24 | 240  | 400 | 55 TR 121812 L |
|       | 15 | 12 | 15 | 74 | 42   | 21   | 36,5 | 27 | 22 | 27 | 19 | 310  | 400 | 55 TR 151215 L |
|       | 18 | 10 | 18 | 81 | 47   | 24   | 39   | 32 | 19 | 32 | 24 | 370  | 400 | 55 TR 181018 L |
|       | 18 | 12 | 18 | 81 | 47   | 24   | 39,5 | 32 | 22 | 32 | 24 | 341  | 400 | 55 TR 181218 L |
|       | 18 | 18 | 10 | 81 | 47,5 | 23,5 | 39,5 | 32 | 32 | 19 | 24 | 351  | 400 | 55 TR 181810 L |
|       | 22 | 10 | 22 | 89 | 56   | 28   | 40,5 | 36 | 19 | 36 | 27 | 486  | 250 | 55 TR 221022 L |
|       | 22 | 12 | 22 | 89 | 56   | 28   | 43,5 | 36 | 22 | 36 | 27 | 494  | 250 | 55 TR 221222 L |
|       | 22 | 15 | 22 | 88 | 55   | 28   | 43,5 | 36 | 27 | 36 | 27 | 513  | 250 | 55 TR 221522 L |
|       | 22 | 18 | 22 | 89 | 55   | 27,5 | 44   | 36 | 32 | 36 | 27 | 480  | 250 | 55 TR 221822 L |

Sigue...

Peso = gr./u.  
PN = bar



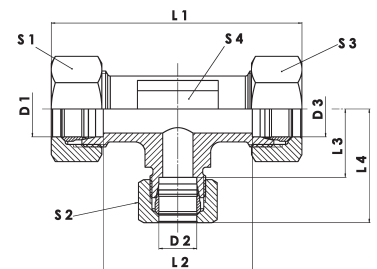
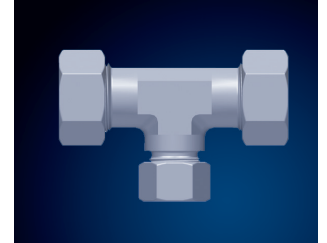
## ACERO INOXIDABLE AISI-316

Te reducida

**TR**

| Serie    | D1 | D2 | D3  | L1  | L2   | L3   | L4   | S1 | S2 | S3 | S4    | Peso  | PN             | Código         |
|----------|----|----|-----|-----|------|------|------|----|----|----|-------|-------|----------------|----------------|
| <b>L</b> | 28 | 10 | 28  | 95  | 61   | 31   | 46,5 | 41 | 19 | 41 | 36    | 624   | 250            | 55 TR 281028 L |
|          | 28 | 12 | 28  | 95  | 61   | 31   | 46,5 | 41 | 22 | 41 | 36    | 643   | 250            | 55 TR 281228 L |
|          | 28 | 18 | 28  | 95  | 61   | 31   | 47,5 | 41 | 32 | 41 | 36    | 685   | 250            | 55 TR 281828 L |
|          | 28 | 22 | 28  | 95  | 61   | 30,5 | 47,5 | 41 | 36 | 41 | 36    | 688   | 250            | 55 TR 282228 L |
| <b>S</b> | 12 | 16 | 12  | 85  | 43   | 24,5 | 44   | 24 | 30 | 24 | 24    | 313   | 630            | 55 TR 121612 S |
|          | 16 | 10 | 16  | 88  | 49   | 25,5 | 42,5 | 30 | 22 | 30 | 24    | 419   | 630            | 55 TR 161016 S |
|          | 16 | 12 | 16  | 88  | 49   | 25,5 | 42,5 | 30 | 24 | 30 | 24    | 376   | 630            | 55 TR 161216 S |
|          | 20 | 12 | 20  | 99  | 53   | 25,5 | 49,5 | 36 | 24 | 36 | 27    | 580   | 420            | 55 TR 201220 S |
|          | 25 | 16 | 25  | 111 | 60   | 33,5 | 53   | 46 | 30 | 46 | 36    | 1.050 | 420            | 55 TR 251625 S |
| 30       | 16 | 30 | 127 | 71  | 40,5 | 60   | 50   | 30 | 50 | 41 | 1.320 | 420   | 55 TR 301630 S |                |

Peso = gr./u.  
PN = bar

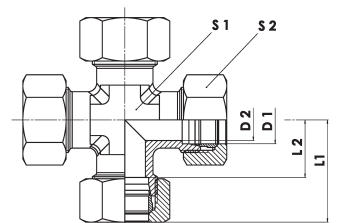


Cruz

**CZ**

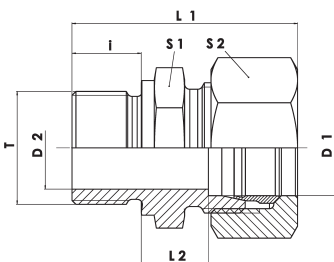
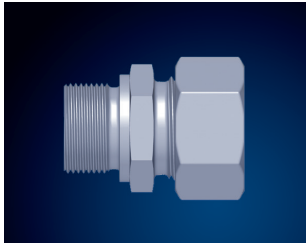
| Serie    | D1   | D2   | L1   | L2   | S1 | S2    | Peso  | PN         | Código     |
|----------|------|------|------|------|----|-------|-------|------------|------------|
| <b>L</b> | 06   | 4,0  | 27   | 12,0 | 12 | 14    | 80    | 500        | 55 CZ 06 L |
|          | 08   | 6,0  | 29   | 14,0 | 12 | 17    | 109   | 500        | 55 CZ 08 L |
|          | 10   | 8,0  | 30   | 15,0 | 14 | 19    | 158   | 500        | 55 CZ 10 L |
|          | 12   | 10,0 | 32   | 17,0 | 17 | 22    | 185   | 400        | 55 CZ 12 L |
|          | 15   | 12,0 | 36   | 21,0 | 19 | 27    | 338   | 400        | 55 CZ 15 L |
|          | 18   | 15,0 | 40   | 23,5 | 24 | 32    | 445   | 400        | 55 CZ 18 L |
|          | 22   | 19,0 | 44   | 27,5 | 27 | 36    | 600   | 250        | 55 CZ 22 L |
|          | 28   | 24,0 | 47   | 30,5 | 36 | 41    | 810   | 250        | 55 CZ 28 L |
|          | 35   | 30,0 | 56   | 34,5 | 41 | 50    | 1.250 | 250        | 55 CZ 35 L |
| 42       | 36,0 | 63,5 | 40,0 | 50   | 60 | 1.880 | 250   | 55 CZ 42 L |            |
| <b>S</b> | 06   | 4,0  | 31   | 16,0 | 12 | 17    | 140   | 800        | 55 CZ 06 S |
|          | 08   | 15,0 | 32   | 17,0 | 14 | 19    | 175   | 800        | 55 CZ 08 S |
|          | 10   | 7,0  | 34   | 17,5 | 17 | 22    | 235   | 800        | 55 CZ 10 S |
|          | 12   | 8,0  | 38   | 21,5 | 17 | 24    | 315   | 630        | 55 CZ 12 S |
|          | 14   | 10,0 | 40   | 22,0 | 19 | 27    | 385   | 630        | 55 CZ 14 S |
|          | 16   | 12,0 | 43   | 24,5 | 24 | 30    | 500   | 630        | 55 CZ 16 S |
|          | 20   | 16,0 | 48   | 26,5 | 27 | 36    | 857   | 420        | 55 CZ 20 S |
|          | 25   | 20,0 | 54   | 30,0 | 36 | 46    | 1.250 | 420        | 55 CZ 25 S |
|          | 30   | 25,0 | 62   | 35,5 | 41 | 50    | 1.540 | 420        | 55 CZ 30 S |
| 38       | 32,0 | 72   | 41,0 | 50   | 60 | 2.900 | 420   | 55 CZ 38 S |            |

Peso = gr./u.  
PN = bar



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Unión macho - Rosca BSPP cilíndrica DIN/ISO 228-1



| Serie | D1 | T         | D2 | L1   | L2   | i  | S1 | S2 | Peso | PN  | Código           |
|-------|----|-----------|----|------|------|----|----|----|------|-----|------------------|
| L     | 06 | G 1/8 "   | 4  | 31,5 | 8,5  | 8  | 14 | 14 | 25   | 500 | 55 UM 06 L R 006 |
|       | 06 | G 1/4 "   | 4  | 37   | 10   | 12 | 19 | 14 | 40   | 500 | 55 UM 06 L R 008 |
|       | 06 | G 3/8 "   | 4  | 38,5 | 11,5 | 12 | 22 | 14 | 58   | 500 | 55 UM 06 L R 010 |
|       | 06 | G 1/2 "   | 4  | 42   | 13   | 14 | 27 | 14 | 100  | 500 | 55 UM 06 L R 015 |
|       | 08 | G 1/8 "   | 4  | 31,5 | 8,5  | 8  | 14 | 17 | 32   | 500 | 55 UM 08 L R 006 |
|       | 08 | G 1/4 "   | 4  | 37   | 10   | 12 | 19 | 17 | 43   | 500 | 55 UM 08 L R 008 |
|       | 08 | G 3/8 "   | 6  | 40   | 12,5 | 12 | 22 | 17 | 59   | 500 | 55 UM 08 L R 010 |
|       | 08 | G 1/2 "   | 6  | 42   | 13   | 14 | 27 | 17 | 99   | 500 | 55 UM 08 L R 015 |
|       | 10 | G 1/8 "   | 6  | 35,5 | 10,5 | 8  | 17 | 19 | 43   | 500 | 55 UM 10 L R 006 |
|       | 10 | G 1/4 "   | 4  | 38   | 11   | 12 | 19 | 19 | 50   | 500 | 55 UM 10 L R 008 |
|       | 10 | G 3/8 "   | 6  | 39,5 | 12,5 | 12 | 22 | 19 | 64   | 500 | 55 UM 10 L R 010 |
|       | 10 | G 1/2 "   | 8  | 42   | 14   | 14 | 32 | 19 | 102  | 500 | 55 UM 10 L R 015 |
|       | 12 | G 1/8 "   | 8  | 33   | 11,5 | 8  | 19 | 22 | 58   | 400 | 55 UM 12 L R 006 |
|       | 12 | G 1/4 "   | 6  | 39   | 12   | 12 | 19 | 22 | 62   | 400 | 55 UM 12 L R 008 |
|       | 12 | G 3/8 "   | 9  | 39,5 | 12,5 | 12 | 22 | 22 | 70   | 400 | 55 UM 12 L R 010 |
|       | 12 | G 1/2 "   | 10 | 42   | 13   | 14 | 27 | 22 | 101  | 400 | 55 UM 12 L R 015 |
|       | 12 | G 3/4 "   | 10 | 45   | 14   | 16 | 32 | 22 | 104  | 400 | 55 UM 12 L R 020 |
|       | 15 | G 1/4 "   | 6  | 40   | 13   | 12 | 24 | 27 | 98   | 400 | 55 UM 15 L R 008 |
|       | 15 | G 3/8 "   | 9  | 40,5 | 13,5 | 12 | 24 | 27 | 102  | 400 | 55 UM 15 L R 010 |
|       | 15 | G 1/2 "   | 11 | 43   | 14   | 14 | 27 | 27 | 114  | 400 | 55 UM 15 L R 015 |
|       | 15 | G 3/4 "   | 12 | 46   | 15   | 16 | 32 | 27 | 172  | 400 | 55 UM 15 L R 020 |
|       | 18 | G 3/8 "   | 9  | 43   | 14,5 | 12 | 27 | 32 | 136  | 400 | 55 UM 18 L R 010 |
|       | 18 | G 1/2 "   | 14 | 45   | 14,5 | 14 | 27 | 32 | 142  | 400 | 55 UM 18 L R 015 |
|       | 18 | G 3/4 "   | 15 | 47   | 14,5 | 16 | 32 | 32 | 185  | 400 | 55 UM 18 L R 020 |
|       | 22 | G 3/8 "   | 9  | 42   | 16   | 12 | 32 | 36 | 180  | 250 | 55 UM 22 L R 010 |
|       | 22 | G 1/2 "   | 14 | 47   | 16,5 | 14 | 32 | 36 | 200  | 250 | 55 UM 22 L R 015 |
|       | 22 | G 3/4 "   | 18 | 49   | 16,5 | 16 | 32 | 36 | 196  | 250 | 55 UM 22 L R 020 |
|       | 22 | G 1 "     | 19 | 52   | 17,5 | 18 | 41 | 36 | 289  | 250 | 55 UM 22 L R 025 |
|       | 22 | G 1 1/4 " | 19 | 55   | 17,5 | 20 | 50 | 36 | 368  | 250 | 55 UM 22 L R 032 |
|       | 28 | G 1/2 "   | 14 | 48   | 17,5 | 14 | 41 | 41 | 210  | 250 | 55 UM 28 L R 015 |
|       | 28 | G 3/4 "   | 18 | 50   | 17,5 | 16 | 41 | 41 | 230  | 250 | 55 UM 28 L R 020 |
|       | 28 | G 1 "     | 23 | 52   | 17,5 | 18 | 41 | 41 | 270  | 250 | 55 UM 28 L R 025 |
|       | 28 | G 1 1/4 " | 24 | 55   | 18,5 | 20 | 50 | 41 | 247  | 250 | 55 UM 28 L R 032 |
|       | 35 | G 1/2 "   | 14 | 53   | 17,5 | 14 | 46 | 50 | 380  | 250 | 55 UM 35 L R 015 |
|       | 35 | G 3/4 "   | 18 | 55   | 17,5 | 16 | 46 | 50 | 400  | 250 | 55 UM 35 L R 020 |
|       | 35 | G 1 "     | 23 | 57   | 17,5 | 18 | 46 | 50 | 412  | 250 | 55 UM 35 L R 025 |
|       | 35 | G 1 1/4 " | 30 | 59   | 17,5 | 20 | 55 | 50 | 465  | 250 | 55 UM 35 L R 032 |
|       | 35 | G 1 1/2 " | 30 | 63   | 19,5 | 22 | 50 | 50 | 598  | 250 | 55 UM 35 L R 040 |
|       | 42 | G 1 "     | 23 | 60   | 19   | 18 | 55 | 60 | 562  | 250 | 55 UM 42 L R 025 |
|       | 42 | G 1 1/4 " | 30 | 62   | 19   | 20 | 55 | 60 | 620  | 250 | 55 UM 42 L R 032 |
|       | 42 | G 1 1/2 " | 36 | 64   | 19   | 22 | 55 | 60 | 610  | 250 | 55 UM 42 L R 040 |

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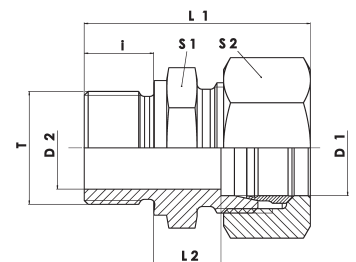
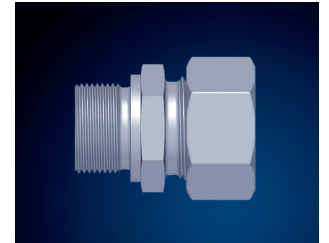
Peso = gr./u.  
PN = bar

## ACERO INOXIDABLE AISI-316

### Unión macho - Rosca BSPP cilíndrica DIN/ISO 228-1

**UM**

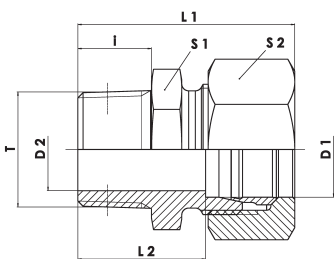
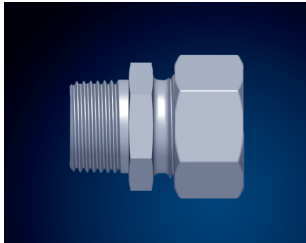
| Serie | D1        | T  | D2   | L1   | L2 | i  | S1 | S2 | Peso | PN  | Código           |
|-------|-----------|----|------|------|----|----|----|----|------|-----|------------------|
| 06    | G 1/8 "   | 3  | 35,5 | 12,5 | 8  | 17 | 17 | 17 | 40   | 800 | 55 UM 06 S R 006 |
| 06    | G 1/4 "   | 4  | 40   | 13   | 12 | 19 | 17 | 17 | 54   | 800 | 55 UM 06 S R 008 |
| 06    | G 3/8 "   | 4  | 42,5 | 15,5 | 12 | 22 | 17 | 17 | 63   | 800 | 55 UM 06 S R 010 |
| 06    | G 1/2 "   | 4  | 45   | 18   | 12 | 27 | 17 | 17 | 107  | 800 | 55 UM 06 S R 015 |
| 06    | G 3/4 "   | 4  | 47   | 20   | 12 | 32 | 17 | 17 | 152  | 800 | 55 UM 06 S R 020 |
| 08    | G 1/8 "   | 3  | 42   | 14,5 | 12 | 19 | 17 | 17 | 58   | 800 | 55 UM 08 S R 006 |
| 08    | G 1/4 "   | 5  | 42,5 | 15   | 12 | 19 | 19 | 19 | 63   | 800 | 55 UM 08 S R 008 |
| 08    | G 3/8 "   | 5  | 43   | 15,5 | 12 | 22 | 19 | 19 | 82   | 800 | 55 UM 08 S R 010 |
| 08    | G 1/2 "   | 5  | 47,5 | 18   | 14 | 27 | 19 | 19 | 108  | 800 | 55 UM 08 S R 015 |
| 10    | G 1/8 "   | 3  | 39,5 | 14   | 8  | 19 | 22 | 22 | 77   | 800 | 55 UM 10 S R 006 |
| 10    | G 1/4 "   | 5  | 44   | 14,5 | 12 | 19 | 22 | 22 | 73   | 800 | 55 UM 10 S R 008 |
| 10    | G 3/8 "   | 7  | 44,5 | 15   | 12 | 22 | 22 | 22 | 89   | 800 | 55 UM 10 S R 010 |
| 10    | G 1/2 "   | 7  | 49   | 17,5 | 14 | 27 | 22 | 22 | 125  | 800 | 55 UM 10 S R 015 |
| 10    | G 3/4 "   | 7  | 53   | 19,5 | 16 | 32 | 22 | 22 | 208  | 800 | 55 UM 10 S R 020 |
| 12    | G 1/4 "   | 5  | 45   | 16,5 | 12 | 22 | 24 | 24 | 91   | 630 | 55 UM 12 S R 006 |
| 12    | G 3/8 "   | 8  | 45,5 | 17   | 12 | 22 | 24 | 24 | 100  | 630 | 55 UM 12 S R 010 |
| 12    | G 1/2 "   | 8  | 48   | 17,5 | 14 | 27 | 24 | 24 | 135  | 630 | 55 UM 12 S R 015 |
| 12    | G 3/4 "   | 8  | 50   | 17,5 | 16 | 32 | 24 | 24 | 192  | 630 | 55 UM 12 S R 020 |
| 14    | G 1/4 "   | 5  | 47   | 16   | 12 | 22 | 27 | 27 | 118  | 630 | 55 UM 14 S R 008 |
| 14    | G 3/8 "   | 8  | 49,5 | 18,5 | 12 | 22 | 27 | 27 | 130  | 630 | 55 UM 14 S R 010 |
| 14    | G 1/2 "   | 10 | 52   | 19   | 14 | 27 | 27 | 27 | 154  | 630 | 55 UM 14 S R 015 |
| 14    | G 3/4 "   | 10 | 56   | 21   | 16 | 32 | 27 | 27 | 195  | 630 | 55 UM 14 S R 020 |
| 14    | G 1 "     | 10 | 60   | 23   | 18 | 41 | 27 | 27 | 350  | 630 | 55 UM 14 S R 025 |
| 16    | G 3/8 "   | 8  | 48,5 | 18   | 12 | 27 | 30 | 30 | 156  | 630 | 55 UM 16 S R 010 |
| 16    | G 1/2 "   | 12 | 51   | 18,5 | 14 | 27 | 30 | 30 | 161  | 630 | 55 UM 16 S R 015 |
| 16    | G 3/4 "   | 12 | 55   | 20,5 | 16 | 32 | 30 | 30 | 240  | 630 | 55 UM 16 S R 020 |
| 16    | G 1 "     | 12 | 59   | 22,5 | 18 | 41 | 30 | 30 | 348  | 630 | 55 UM 16 S R 025 |
| 20    | G 1/2 "   | 12 | 58   | 20,5 | 14 | 32 | 36 | 36 | 245  | 420 | 55 UM 20 S R 015 |
| 20    | G 3/4 "   | 16 | 58   | 20,5 | 16 | 32 | 36 | 36 | 277  | 420 | 55 UM 20 S R 020 |
| 20    | G 1 "     | 16 | 64   | 22,5 | 18 | 41 | 36 | 36 | 387  | 420 | 55 UM 20 S R 025 |
| 20    | G 1 1/4 " | 16 | 66   | 22,5 | 20 | 50 | 36 | 36 | 574  | 420 | 55 UM 20 S R 032 |
| 20    | G 1 1/2 " | 16 | 71   | 25,5 | 22 | 55 | 36 | 36 | 778  | 420 | 55 UM 20 S R 040 |
| 25    | G 1/2 "   | 12 | 58   | 20   | 14 | 41 | 46 | 46 | 444  | 420 | 55 UM 25 S R 015 |
| 25    | G 3/4 "   | 16 | 63   | 23   | 16 | 41 | 46 | 46 | 455  | 420 | 55 UM 25 S R 020 |
| 25    | G 1 "     | 20 | 65   | 23   | 18 | 41 | 46 | 46 | 494  | 420 | 55 UM 25 S R 025 |
| 25    | G 1 1/4 " | 20 | 67   | 23   | 20 | 50 | 46 | 46 | 674  | 420 | 55 UM 25 S R 032 |
| 25    | G 1 1/2 " | 20 | 72   | 26   | 22 | 55 | 46 | 46 | 582  | 420 | 55 UM 25 S R 040 |
| 30    | G 3/4 "   | 16 | 66   | 23,5 | 16 | 46 | 50 | 50 | 611  | 420 | 55 UM 30 S R 020 |
| 30    | G 1 "     | 20 | 68   | 23,5 | 18 | 46 | 50 | 50 | 630  | 420 | 55 UM 30 S R 025 |
| 30    | G 1 1/4 " | 25 | 70   | 23,5 | 20 | 50 | 50 | 50 | 670  | 420 | 55 UM 30 S R 032 |
| 30    | G 1 1/2 " | 25 | 75   | 26,5 | 22 | 55 | 50 | 50 | 979  | 420 | 55 UM 30 S R 040 |
| 38    | G 1 1/4 " | 25 | 75   | 26   | 20 | 55 | 60 | 60 | 920  | 420 | 55 UM 38 S R 032 |
| 38    | G 1 1/2 " | 32 | 77   | 26   | 22 | 55 | 60 | 60 | 935  | 420 | 55 UM 38 S R 040 |



Peso = gr./u.  
PN = bar

UM-K

Unión macho - Rosca BSP cónica EN10226 (ISO 7-1)

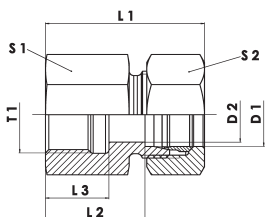


| Serie | D1 | T         | D2 | L1   | L2   | i  | S1 | S2 | Peso | PN  | Código           |
|-------|----|-----------|----|------|------|----|----|----|------|-----|------------------|
| L     | 06 | R 1/8 K   | 4  | 31   | 16   | 8  | 12 | 14 | 27   | 500 | 55 UMK 06 LR 006 |
|       | 06 | R 1/4 K   | 4  | 35   | 19   | 12 | 14 | 14 | 28   | 500 | 55 UMK 06 LR 008 |
|       | 06 | R 3/8 K   | 4  | 34   | 19   | 12 | 17 | 14 | 34   | 500 | 55 UMK 06 LR 010 |
|       | 06 | R 1/2 K   | 4  | 37   | 22   | 14 | 22 | 14 | 60   | 500 | 55 UMK 06 LR 015 |
|       | 08 | R 1/8 K   | 4  | 31   | 16   | 8  | 14 | 17 | 32   | 500 | 55 UMK 08 LR 006 |
|       | 08 | R 1/4 K   | 6  | 35   | 20   | 12 | 17 | 17 | 40   | 500 | 55 UMK 08 LR 008 |
|       | 08 | R 3/8 K   | 6  | 35   | 20   | 12 | 17 | 17 | 46   | 500 | 55 UMK 08 LR 010 |
|       | 08 | R 1/2 K   | 6  | 37   | 22   | 14 | 22 | 17 | 60   | 500 | 55 UMK 08 LR 015 |
|       | 10 | R 1/8 K   | 4  | 32,5 | 17   | 8  | 17 | 19 | 38   | 500 | 55 UMK 10 LR 006 |
|       | 10 | R 1/4 K   | 7  | 36,5 | 21   | 12 | 17 | 19 | 44   | 500 | 55 UMK 10 LR 008 |
|       | 10 | R 3/8 K   | 8  | 36,5 | 21   | 12 | 17 | 19 | 57   | 500 | 55 UMK 10 LR 010 |
|       | 10 | R 1/2 K   | 8  | 38,5 | 23   | 14 | 22 | 19 | 70   | 500 | 55 UMK 10 LR 015 |
|       | 12 | R 1/4 K   | 7  | 37,5 | 22   | 12 | 19 | 22 | 58   | 400 | 55 UMK 12 LR 008 |
|       | 12 | R 3/8 K   | 9  | 37,5 | 22   | 12 | 19 | 22 | 62   | 400 | 55 UMK 12 LR 010 |
|       | 12 | R 1/2 K   | 10 | 39,5 | 24   | 14 | 22 | 22 | 80   | 400 | 55 UMK 12 LR 015 |
|       | 15 | R 3/8 K   | 9  | 39   | 23   | 12 | 24 | 27 | 94   | 400 | 55 UMK 15 LR 010 |
|       | 15 | R 1/2 K   | 12 | 41   | 25   | 14 | 24 | 27 | 105  | 400 | 55 UMK 15 LR 015 |
|       | 18 | R 1/2 K   | 15 | 42,5 | 25,5 | 14 | 27 | 32 | 145  | 400 | 55 UMK 18 LR 015 |
|       | 18 | R 3/4 K   | 14 | 44,5 | 27,5 | 17 | 27 | 32 | 162  | 400 | 55 UMK 18 LR 020 |
|       | 22 | R 1/2 K   | 15 | 44,5 | 27,5 | 14 | 32 | 36 | 188  | 250 | 55 UMK 22 LR 015 |
|       | 22 | R 3/4 K   | 17 | 46   | 29,5 | 16 | 32 | 36 | 192  | 250 | 55 UMK 22 LR 020 |
|       | 28 | R 1 K     | 20 | 49,5 | 32,5 | 18 | 41 | 41 | 272  | 250 | 55 UMK 28 LR 025 |
|       | 35 | R 1 K     | 20 | 55   | 32,5 | 18 | 46 | 50 | 420  | 250 | 55 UMK 35 LR 025 |
|       | 42 | R 1 1/2 K | 30 | 61,5 | 38   | 20 | 55 | 60 | 594  | 250 | 55 UMK 42 LR 032 |

Peso = gr./u.  
PN = bar

UH

Unión hembra - paralela



| Serie | D1 | T        | D2 | L1 | L2   | L3 | S1 | S2 | Peso | PN  | Código          |
|-------|----|----------|----|----|------|----|----|----|------|-----|-----------------|
| L     | 06 | G 1/8"   | 4  | 34 | 19   | 11 | 14 | 14 | 27   | 500 | 55 UH 06 LR 006 |
|       | 06 | G 1/4"   | 4  | 39 | 24   | 18 | 19 | 14 | 48   | 500 | 55 UH 06 LR 008 |
|       | 08 | G 1/4"   | 6  | 39 | 24   | 18 | 19 | 17 | 50   | 500 | 55 UH 08 LR 008 |
|       | 08 | G 3/8"   | 6  | 40 | 25   | 16 | 24 | 17 | 78   | 500 | 55 UH 08 LR 010 |
|       | 08 | G 1/2"   | 6  | 44 | 29   | 20 | 27 | 17 | 84   | 500 | 55 UH 08 LR 015 |
|       | 10 | G 1/4"   | 8  | 40 | 25   | 18 | 19 | 19 | 60   | 500 | 55 UH 10 LR 008 |
|       | 10 | G 3/8"   | 8  | 41 | 26   | 16 | 24 | 19 | 68   | 500 | 55 UH 10 LR 010 |
|       | 10 | G 1/2"   | 8  | 45 | 30   | 20 | 27 | 19 | 102  | 500 | 55 UH 10 LR 015 |
|       | 12 | G 1/4"   | 10 | 40 | 25   | 18 | 19 | 22 | 68   | 400 | 55 UH 12 LR 008 |
|       | 12 | G 3/8"   | 10 | 41 | 26   | 16 | 24 | 22 | 88   | 400 | 55 UH 12 LR 010 |
|       | 12 | G 1/2"   | 10 | 45 | 30   | 20 | 27 | 22 | 106  | 400 | 55 UH 12 LR 015 |
|       | 15 | G 3/8"   | 12 | 42 | 27   | 16 | 24 | 27 | 114  | 400 | 55 UH 15 LR 010 |
|       | 15 | G 1/2"   | 12 | 46 | 31   | 20 | 27 | 27 | 113  | 400 | 55 UH 15 LR 015 |
|       | 18 | G 3/8"   | 15 | 43 | 26,5 | 16 | 27 | 32 | 168  | 400 | 55 UH 18 LR 010 |
|       | 18 | G 1/2"   | 15 | 47 | 30,5 | 20 | 27 | 32 | 151  | 400 | 55 UH 18 LR 015 |
|       | 22 | G 3/4"   | 19 | 52 | 35,5 | 22 | 36 | 36 | 270  | 250 | 55 UH 22 LR 020 |
|       | 28 | G 1"     | 24 | 55 | 38   | 24 | 41 | 41 | 311  | 250 | 55 UH 28 LR 025 |
|       | 35 | G 1 1/4" | 30 | 63 | 41   | 28 | 55 | 50 | 588  | 250 | 55 UH 35 LR 032 |
|       | 42 | G 1 1/2" | 36 | 66 | 42,5 | 30 | 60 | 60 | 760  | 250 | 55 UH 42 LR 040 |

Sigue...

Peso = gr./u.  
PN = bar

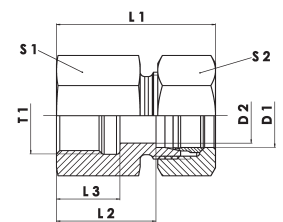
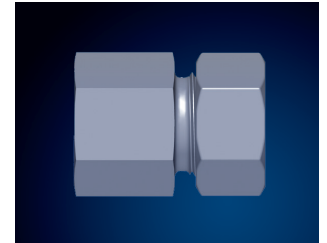
## ACERO INOXIDABLE AISI-316

### Unión hembra - paralela

### UH

| Serie    | D1       | T        | D2 | L1   | L2   | L3 | S1 | S2  | Peso | PN              | Código          |
|----------|----------|----------|----|------|------|----|----|-----|------|-----------------|-----------------|
| <b>S</b> | 06       | G 1/8"   | 4  | 36   | 21   | 18 | 17 | 17  | 50   | 800             | 55 UH 06 SR 006 |
|          | 06       | G 1/4"   | 4  | 41   | 26   | 18 | 19 | 17  | 49   | 800             | 55 UH 06 SR 008 |
|          | 08       | G 1/4"   | 5  | 41   | 26   | 18 | 19 | 19  | 59   | 800             | 55 UH 08 SR 008 |
|          | 10       | G 1/4"   | 5  | 43   | 26,5 | 16 | 22 | 22  | 114  | 800             | 55 UH 10 SR 008 |
|          | 10       | G 3/8"   | 7  | 43   | 26,5 | 16 | 24 | 22  | 100  | 800             | 55 UH 10 SR 010 |
|          | 12       | G 1/4"   | 7  | 44   | 27   | 17 | 22 | 24  | 106  | 630             | 55 UH 12 SR 008 |
|          | 12       | G 3/8"   | 8  | 43   | 26,5 | 17 | 24 | 24  | 112  | 630             | 55 UH 12 SR 010 |
|          | 12       | G 1/2"   | 8  | 47   | 30,5 | 20 | 27 | 24  | 122  | 630             | 55 UH 12 SR 015 |
|          | 14       | G 1/2"   | 10 | 50   | 32   | 20 | 27 | 27  | 148  | 630             | 55 UH 14 SR 015 |
|          | 16       | G 1/2"   | 12 | 50   | 31,5 | 20 | 27 | 30  | 175  | 630             | 55 UH 16 SR 015 |
|          | 20       | G 3/8"   | 10 | 51   | 27,5 | 22 | 32 | 36  | 245  | 420             | 55 UH 20 SR 010 |
|          | 20       | G 1/2"   | 16 | 56   | 34,5 | 20 | 32 | 36  | 248  | 420             | 55 UH 20 SR 015 |
|          | 20       | G 3/4"   | 16 | 56   | 34,5 | 22 | 36 | 36  | 300  | 420             | 55 UH 20 SR 020 |
|          | 25       | G 1"     | 20 | 62   | 37,5 | 25 | 41 | 46  | 466  | 420             | 55 UH 25 SR 025 |
|          | 30       | G 1 1/4" | 25 | 69   | 42   | 27 | 55 | 50  | 719  | 420             | 55 UH 30 SR 032 |
| 38       | G 1 1/2" | 32       | 75 | 43,5 | 30   | 60 | 60 | 980 | 420  | 55 UH 38 SR 040 |                 |

Peso = gr./u.  
PN = bar

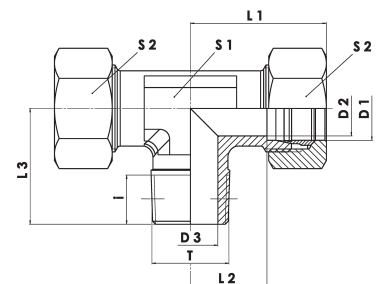
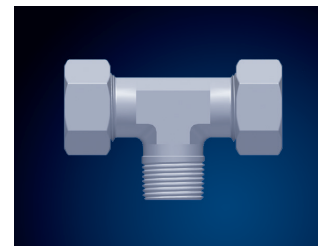


### Te macho - Rosca BSP cónica EN10226 (ISO 7-1)

### TM-K

| Serie    | D1 | T         | D2 | D3 | L1   | L2   | L3 | i  | S1 | S2 | Peso | PN  | Código           |
|----------|----|-----------|----|----|------|------|----|----|----|----|------|-----|------------------|
| <b>L</b> | 06 | R 1/8 " K | 4  | 4  | 27   | 12   | 20 | 8  | 12 | 14 | 56   | 500 | 55 TMK 06 LR 006 |
|          | 08 | R 1/4 " K | 6  | 6  | 29   | 14   | 26 | 12 | 12 | 17 | 72   | 500 | 55 TMK 08 LR 008 |
|          | 10 | R 1/4 " K | 8  | 7  | 30   | 15   | 27 | 12 | 14 | 19 | 76   | 500 | 55 TMK 10 LR 008 |
|          | 12 | R 3/8 " K | 10 | 9  | 32   | 17   | 28 | 12 | 17 | 22 | 102  | 400 | 55 TMK 12 LR 010 |
|          | 12 | R 1/2 " K | 10 | 11 | 36   | 21   | 28 | 14 | 17 | 22 | 138  | 400 | 55 TMK 12 LR 015 |
|          | 15 | R 1/2 " K | 12 | 11 | 36,5 | 21   | 34 | 14 | 19 | 27 | 201  | 400 | 55 TMK 15 LR 015 |
|          | 18 | R 1/2 " K | 15 | 14 | 40   | 23,5 | 36 | 14 | 24 | 32 | 296  | 400 | 55 TMK 18 LR 015 |
| <b>S</b> | 06 | R 1/4 " K | 4  | 4  | 31   | 16   | 26 | 12 | 12 | 17 | 100  | 800 | 55 TMK 06 SR 008 |
|          | 08 | R 1/4 " K | 5  | 5  | 32,5 | 17   | 27 | 12 | 12 | 19 | 113  | 800 | 55 TMK 08 SR 008 |
|          | 10 | R 3/8 " K | 7  | 7  | 35   | 17,5 | 28 | 12 | 17 | 22 | 135  | 800 | 55 TMK 10 SR 010 |
|          | 12 | R 3/8 " K | 8  | 8  | 38   | 21,5 | 28 | 12 | 17 | 24 | 159  | 630 | 55 TMK 12 SR 010 |
|          | 14 | R 1/2 " K | 10 | 10 | 41   | 22   | 32 | 14 | 19 | 27 | 238  | 630 | 55 TMK 14 SR 015 |
|          | 16 | R 1/2 " K | 12 | 12 | 43   | 24,5 | 32 | 14 | 24 | 30 | 339  | 630 | 55 TMK 16 SR 015 |

Peso = gr./u.  
PN = bar



## ACERO INOXIDABLE AISI-316

### TM-C

Te macho - Rosca BSPP cilíndrica DIN/ISO 228-1



| Serie | D1 | T         | D2 | D3 | L1   | L2   | L3 | i  | S1 | S2 | Peso  | PN  | Código           |
|-------|----|-----------|----|----|------|------|----|----|----|----|-------|-----|------------------|
| L     | 22 | G 3/4 "   | 19 | 18 | 44,5 | 27,5 | 26 | 16 | 27 | 36 | 371   | 250 | 55 TMC 22 LR 020 |
|       | 28 | G 1 "     | 24 | 23 | 47,5 | 30,5 | 30 | 18 | 36 | 41 | 544   | 250 | 55 TMC 28 LR 025 |
|       | 42 | G 1 1/2 " | 36 | 36 | 63,5 | 40   | 39 | 22 | 50 | 60 | 1.240 | 250 | 55 TMC 42 LR 040 |
| S     | 20 | G 3/4 "   | 16 | 16 | 49,5 | 26,5 | 26 | 16 | 27 | 36 | 499   | 420 | 55 TMC 20 SR 020 |
|       | 25 | G 1 "     | 20 | 20 | 55,5 | 30   | 30 | 18 | 36 | 46 | 921   | 420 | 55 TMC 25 SR 025 |
|       | 38 | G 1 1/2 " | 32 | 32 | 74   | 41   | 39 | 22 | 50 | 60 | 1.722 | 420 | 55 TMC 38 SR 040 |

Peso = gr./u.  
PN = bar

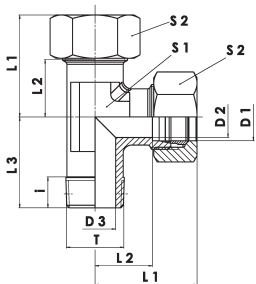
### TML-K

Te macho - Rosca BSP cónica EN10226 (ISO 7-1)



| Serie | D1        | T         | D2 | D3 | L1   | L2   | L3 | i  | S1 | S2  | Peso | PN                | Código            |
|-------|-----------|-----------|----|----|------|------|----|----|----|-----|------|-------------------|-------------------|
| L     | 06        | R 1/8 " K | 4  | 4  | 27   | 12   | 20 | 8  | 12 | 14  | 53   | 500               | 55 TMLK 06 LR 006 |
|       | 08        | R 1/4 " K | 6  | 6  | 29   | 14   | 26 | 12 | 12 | 17  | 75   | 500               | 55 TMLK 08 LR 008 |
|       | 10        | R 1/4 " K | 8  | 7  | 30   | 15   | 27 | 12 | 14 | 19  | 100  | 500               | 55 TMLK 10 LR 008 |
|       | 12        | R 3/8 " K | 10 | 9  | 32   | 17   | 28 | 12 | 17 | 22  | 120  | 400               | 55 TMLK 12 LR 010 |
|       | 15        | R 1/2 " K | 12 | 11 | 36   | 21   | 34 | 14 | 19 | 27  | 167  | 400               | 55 TMLK 15 LR 015 |
| S     | 18        | R 1/2 " K | 15 | 14 | 40   | 23,5 | 36 | 14 | 24 | 32  | 296  | 400               | 55 TMLK 18 LR 015 |
|       | 06        | R 1/4 " K | 4  | 4  | 31   | 16   | 26 | 12 | 12 | 17  | 97   | 800               | 55 TMLK 06 SR 008 |
|       | 08        | R 1/4 " K | 5  | 5  | 32   | 17   | 27 | 12 | 14 | 19  | 128  | 800               | 55 TMLK 08 SR 008 |
|       | 10        | R 3/8 " K | 7  | 7  | 34   | 17,5 | 28 | 12 | 17 | 22  | 172  | 800               | 55 TMLK 10 SR 010 |
|       | 12        | R 3/8 " K | 8  | 8  | 38   | 21,5 | 28 | 12 | 17 | 24  | 244  | 630               | 55 TMLK 12 SR 010 |
|       | 14        | R 1/2 " K | 10 | 10 | 40   | 22   | 32 | 14 | 19 | 27  | 245  | 630               | 55 TMLK 14 SR 015 |
| 16    | R 1/2 " K | 12        | 12 | 43 | 24,5 | 32   | 14 | 24 | 30 | 320 | 630  | 55 TMLK 16 SR 015 |                   |

Peso = gr./u.  
PN = bar



### TML

Te extremo macho - Rosca BSPP cilíndrica DIN/ISO 228-1



| Serie | D1 | T         | D2 | D3 | L1 | L2   | L3 | i  | S1 | S2 | Peso  | PN  | Código           |
|-------|----|-----------|----|----|----|------|----|----|----|----|-------|-----|------------------|
| L     | 22 | G 3/4 "   | 19 | 18 | 44 | 27,5 | 26 | 16 | 27 | 36 | 371   | 250 | 55 TML 22 LR 020 |
|       | 28 | G 1 "     | 24 | 23 | 47 | 30,5 | 30 | 18 | 36 | 41 | 544   | 250 | 55 TML 28 LR 025 |
|       | 42 | G 1 1/2 " | 36 | 36 | 63 | 40   | 39 | 22 | 50 | 60 | 1.240 | 250 | 55 TML 42 LR 040 |

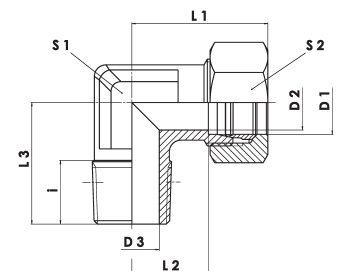
Peso = gr./u.  
PN = bar

ACERO INOXIDABLE AISI-316

Codo macho - Rosca BSP cónica EN10226 (ISO 7-1)

CM-K

| Serie | D1        | T         | D2 | D3   | L1   | L2   | L3 | i  | S1 | S2  | Peso | PN               | Código           |
|-------|-----------|-----------|----|------|------|------|----|----|----|-----|------|------------------|------------------|
| L     | 06        | R 1/8 " K | 4  | 4    | 27   | 12   | 20 | 8  | 12 | 14  | 34   | 500              | 55 CMK 06 LR 006 |
|       | 06        | R 1/4 " K | 4  | 6    | 27   | 12   | 26 | 12 | 12 | 14  | 57   | 500              | 55 CMK 06 LR 008 |
|       | 06        | R 3/8 " K | 4  | 9    | 29   | 14   | 28 | 12 | 14 | 14  | 58   | 500              | 55 CMK 06 LR 010 |
|       | 08        | R 1/8 " K | 6  | 4    | 29   | 14   | 26 | 8  | 12 | 17  | 53   | 500              | 55 CMK 08 LR 006 |
|       | 08        | R 1/4 " K | 6  | 6    | 29   | 14   | 26 | 12 | 12 | 17  | 60   | 500              | 55 CMK 08 LR 008 |
|       | 08        | R 3/8 " K | 6  | 9    | 30   | 15   | 27 | 12 | 14 | 17  | 82   | 500              | 55 CMK 08 LR 010 |
|       | 08        | R 1/2 " K | 6  | 11   | 34   | 19   | 30 | 14 | 17 | 17  | 95   | 500              | 55 CMK 08 LR 015 |
|       | 10        | R 1/4 " K | 8  | 7    | 30,5 | 15   | 26 | 12 | 14 | 19  | 66   | 500              | 55 CMK 10 LR 008 |
|       | 10        | R 3/8 " K | 8  | 9    | 30,5 | 15   | 27 | 12 | 14 | 19  | 70   | 500              | 55 CMK 10 LR 010 |
|       | 10        | R 1/2 " K | 8  | 11   | 36,5 | 21   | 32 | 14 | 19 | 19  | 90   | 500              | 55 CMK 10 LR 015 |
|       | 12        | R 1/4 " K | 10 | 7    | 32,5 | 17   | 28 | 12 | 17 | 22  | 74   | 400              | 55 CMK 12 LR 008 |
|       | 12        | R 3/8 " K | 10 | 9    | 32,5 | 17   | 28 | 12 | 17 | 22  | 75   | 400              | 55 CMK 12 LR 010 |
|       | 12        | R 1/2 " K | 10 | 11   | 36,5 | 21   | 32 | 14 | 17 | 22  | 110  | 400              | 55 CMK 12 LR 015 |
|       | 15        | R 3/8 " K | 12 | 9    | 37   | 21   | 28 | 12 | 19 | 27  | 134  | 400              | 55 CMK 15 LR 010 |
|       | 15        | R 1/2 " K | 12 | 11   | 37,5 | 21   | 34 | 14 | 19 | 27  | 216  | 400              | 55 CMK 15 LR 015 |
| 18    | R 1/2 " K | 15        | 14 | 40,5 | 23,5 | 36   | 14 | 24 | 32 | 273 | 400  | 55 CMK 18 LR 015 |                  |
| 18    | R 3/4 " K | 15        | 17 | 40,5 | 23,5 | 34   | 16 | 24 | 32 | 233 | 400  | 55 CMK 18 LR 020 |                  |
| 22    | R 3/4 " K | 18        | 17 | 44,5 | 27,5 | 42   | 16 | 27 | 36 | 295 | 250  | 55 CMK 22 LR 020 |                  |
| S     | 06        | R 1/4 " K | 4  | 4    | 31   | 16   | 26 | 12 | 12 | 17  | 61   | 800              | 55 CMK 06 SR 008 |
|       | 06        | R 3/8 " K | 4  | 7    | 31   | 16   | 28 | 12 | 17 | 17  | 85   | 800              | 55 CMK 06 SR 010 |
|       | 08        | R 1/4 " K | 5  | 5    | 32   | 17   | 27 | 12 | 14 | 19  | 79   | 800              | 55 CMK 08 SR 008 |
|       | 08        | R 3/8 " K | 5  | 7    | 32   | 17   | 27 | 12 | 17 | 19  | 85   | 800              | 55 CMK 08 SR 010 |
|       | 10        | R 1/4 " K | 7  | 5    | 34,5 | 17,5 | 28 | 12 | 17 | 22  | 92   | 800              | 55 CMK 10 SR 008 |
|       | 10        | R 3/8 " K | 7  | 7    | 34,5 | 17,5 | 28 | 12 | 17 | 22  | 95   | 800              | 55 CMK 10 SR 010 |
|       | 10        | R 1/2 " K | 7  | 10   | 34,5 | 17,5 | 32 | 14 | 17 | 22  | 102  | 800              | 55 CMK 10 SR 015 |
|       | 12        | R 3/8 " K | 8  | 8    | 38,5 | 21,5 | 28 | 12 | 17 | 24  | 115  | 630              | 55 CMK 12 SR 010 |
|       | 12        | R 1/2 " K | 8  | 11   | 38,5 | 21,5 | 32 | 14 | 17 | 24  | 130  | 630              | 55 CMK 12 SR 015 |
|       | 14        | R 1/2 " K | 10 | 10   | 40,5 | 22   | 32 | 14 | 19 | 27  | 158  | 630              | 55 CMK 14 SR 015 |
| 16    | R 1/2 " K | 12        | 12 | 44   | 24,5 | 32   | 14 | 24 | 30 | 200 | 630  | 55 CMK 16 SR 015 |                  |

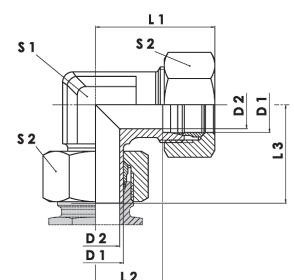


Peso = gr./u.  
PN = bar

Codo adaptable

CA

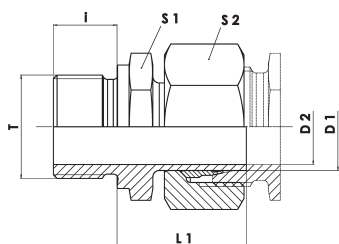
| Serie | D1 | D2 | L1   | L2   | L3   | S1 | S2 | Peso | PN  | Código     |
|-------|----|----|------|------|------|----|----|------|-----|------------|
| L     | 06 | 4  | 27   | 12   | 26   | 12 | 14 | 35   | 500 | 55 CA 06 L |
|       | 08 | 6  | 29   | 14   | 27,5 | 12 | 17 | 54   | 500 | 55 CA 08 L |
|       | 10 | 8  | 30,5 | 15   | 29   | 14 | 19 | 68   | 500 | 55 CA 10 L |
|       | 12 | 10 | 32   | 17   | 29,5 | 17 | 22 | 95   | 400 | 55 CA 12 L |
|       | 15 | 12 | 36,5 | 21   | 32,5 | 19 | 27 | 170  | 400 | 55 CA 15 L |
|       | 18 | 15 | 40   | 23,5 | 35,5 | 24 | 32 | 250  | 400 | 55 CA 18 L |
|       | 22 | 19 | 44,5 | 27,5 | 38,5 | 27 | 36 | 335  | 250 | 55 CA 22 L |
|       | 28 | 24 | 48   | 30,5 | 41,5 | 36 | 41 | 475  | 250 | 55 CA 28 L |
|       | 35 | 30 | 57   | 34,5 | 51   | 41 | 50 | 700  | 250 | 55 CA 35 L |
|       | 42 | 36 | 63,5 | 40   | 56   | 50 | 60 | 1071 | 250 | 55 CA 42 L |
| S     | 06 | 4  | 31   | 16   | 27   | 12 | 17 | 62   | 800 | 55 CA 06 S |
|       | 08 | 5  | 32,5 | 17   | 27,5 | 14 | 19 | 93   | 800 | 55 CA 08 S |
|       | 10 | 7  | 35   | 17,5 | 30   | 17 | 22 | 123  | 800 | 55 CA 10 S |
|       | 12 | 8  | 38   | 21,5 | 30,5 | 17 | 24 | 140  | 630 | 55 CA 12 S |
|       | 14 | 10 | 41   | 22   | 34,5 | 19 | 27 | 200  | 630 | 55 CA 14 S |
|       | 16 | 12 | 46,5 | 24,5 | 36,5 | 24 | 30 | 298  | 630 | 55 CA 16 S |
|       | 20 | 16 | 50   | 26,5 | 44,5 | 27 | 36 | 432  | 420 | 55 CA 20 S |
|       | 25 | 20 | 56   | 30   | 50   | 36 | 46 | 784  | 420 | 55 CA 25 S |
|       | 30 | 25 | 64   | 35,5 | 55   | 41 | 50 | 355  | 420 | 55 CA 30 S |
|       | 38 | 32 | 74   | 41   | 63   | 50 | 60 | 410  | 420 | 55 CA 38 S |



Peso = gr./u.  
PN = bar

UMA

Unión macho adaptable - Rosca BSPP cilíndrica DIN/ISO 228-1

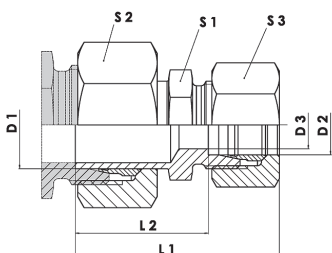
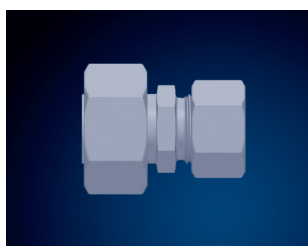


| Serie | D1 | T         | D2      | L1   | i  | S1 | S2 | Peso  | PN  | Código            |
|-------|----|-----------|---------|------|----|----|----|-------|-----|-------------------|
| L     | 06 | G 1/8 "   | 3,3     | 24,5 | 8  | 14 | 14 | 25    | 500 | 55 UMA 06 L R 006 |
|       | 08 | G 1/4 "   | 5       | 29,5 | 12 | 19 | 17 | 47    | 500 | 55 UMA 08 L R 008 |
|       | 10 | G 1/4 "   | 6,5     | 27,5 | 12 | 19 | 19 | 49    | 500 | 55 UMA 10 L R 008 |
|       | 10 | G 3/8 "   | 8       | 27,5 | 12 | 19 | 22 | 64    | 500 | 55 UMA 10 L R 010 |
|       | 12 | G 1/4 "   | 8       | 34   | 12 | 19 | 22 | 72    | 400 | 55 UMA 12 L R 008 |
|       | 12 | G 3/8 "   | 8       | 27,5 | 12 | 22 | 22 | 74    | 400 | 55 UMA 12 L R 010 |
|       | 12 | G 1/2 "   | 8       | 28   | 14 | 27 | 22 | 124   | 400 | 55 UMA 12 L R 015 |
|       | 15 | G 1/2 "   | 10      | 32   | 14 | 27 | 27 | 107   | 400 | 55 UMA 15 L R 015 |
|       | 18 | G 1/2 "   | 13      | 31,5 | 14 | 27 | 32 | 140   | 400 | 55 UMA 18 L R 015 |
|       | 22 | G 3/4 "   | 16,5    | 32,5 | 16 | 32 | 36 | 188   | 250 | 55 UMA 22 L R 020 |
|       | 28 | G 1 "     | 22      | 35   | 18 | 41 | 41 | 264   | 250 | 55 UMA 28 L R 025 |
|       | 35 | G 1.1/4 " | 28      | 42,5 | 20 | 50 | 50 | 438   | 250 | 55 UMA 35 L R 032 |
|       | 42 | G 1.1/2 " | 34      | 46,5 | 22 | 55 | 60 | 630   | 250 | 55 UMA 42 L R 040 |
|       | S  | 06        | G 1/4 " | 3,3  | 27 | 12 | 19 | 17    | 42  | 800               |
| 08    |    | G 1/4 "   | 4,3     | 29,5 | 12 | 19 | 19 | 58    | 800 | 55 UMA 08 S R 008 |
| 10    |    | G 3/8 "   | 6       | 32   | 12 | 22 | 22 | 81    | 800 | 55 UMA 10 S R 010 |
| 12    |    | G 3/8 "   | 7,3     | 34   | 12 | 22 | 24 | 110   | 630 | 55 UMA 12 S R 010 |
| 12    |    | G 1/2 "   | 7,3     | 32   | 14 | 27 | 24 | 127   | 630 | 55 UMA 12 S R 015 |
| 14    |    | G 1/2 "   | 9       | 37   | 14 | 27 | 27 | 142   | 630 | 55 UMA 14 S R 015 |
| 16    |    | G 1/2 "   | 10,5    | 37   | 14 | 27 | 30 | 160   | 630 | 55 UMA 16 S R 015 |
| 16    |    | G 3/4 "   | 10,5    | 35   | 16 | 32 | 30 | 211   | 630 | 55 UMA 16 S R 020 |
| 20    |    | G 3/4 "   | 13,5    | 43   | 16 | 32 | 36 | 261   | 420 | 55 UMA 20 S R 020 |
| 25    |    | G 1 "     | 17,5    | 48   | 18 | 41 | 46 | 480   | 420 | 55 UMA 25 S R 025 |
| 30    |    | G 1.1/4 " | 22      | 51   | 20 | 50 | 50 | 675   | 420 | 55 UMA 30 S R 032 |
| 38    |    | G 1.1/2 " | 28,5    | 60   | 22 | 55 | 60 | 1.013 | 420 | 55 UMA 38 S R 040 |

Peso = gr./u.  
PN = bar

RA

Reducción adaptable



| Serie | D1 | D2 | D3 | L1   | L2   | S1 | S2 | S3 | Peso | PN  | Código       |
|-------|----|----|----|------|------|----|----|----|------|-----|--------------|
| L     | 08 | 06 | 4  | 43   | 28   | 12 | 17 | 14 | 42   | 500 | 55 RA 0806 L |
|       | 10 | 06 | 4  | 42,5 | 27,5 | 12 | 19 | 14 | 55   | 500 | 55 RA 1006 L |
|       | 10 | 08 | 6  | 43,5 | 28,5 | 14 | 19 | 17 | 58   | 500 | 55 RA 1008 L |
|       | 12 | 06 | 4  | 44,5 | 29,5 | 14 | 22 | 14 | 63   | 400 | 55 RA 1206 L |
|       | 12 | 08 | 6  | 44,5 | 29,5 | 14 | 22 | 17 | 70   | 400 | 55 RA 1208 L |
|       | 12 | 10 | 8  | 45,5 | 30,5 | 17 | 22 | 19 | 72   | 400 | 55 RA 1210 L |
|       | 15 | 06 | 4  | 45   | 30   | 17 | 27 | 14 | 95   | 400 | 55 RA 1506 L |
|       | 15 | 08 | 6  | 45   | 30   | 17 | 27 | 17 | 98   | 400 | 55 RA 1508 L |
|       | 15 | 10 | 8  | 46   | 31   | 17 | 27 | 19 | 100  | 400 | 55 RA 1510 L |
|       | 15 | 12 | 10 | 47   | 32   | 19 | 27 | 22 | 104  | 400 | 55 RA 1512 L |
|       | 18 | 08 | 6  | 46,5 | 30,5 | 19 | 32 | 17 | 135  | 400 | 55 RA 1808 L |
|       | 18 | 10 | 8  | 46,5 | 31,5 | 19 | 32 | 19 | 140  | 400 | 55 RA 1810 L |
|       | 18 | 12 | 10 | 46,5 | 31,5 | 19 | 32 | 22 | 145  | 400 | 55 RA 1812 L |
|       | 18 | 15 | 12 | 47,5 | 32,5 | 24 | 32 | 27 | 165  | 400 | 55 RA 1815 L |
|       | 22 | 10 | 8  | 47,5 | 32,5 | 24 | 36 | 19 | 170  | 250 | 55 RA 2210 L |

Sigue...

Peso = gr./u.  
PN = bar

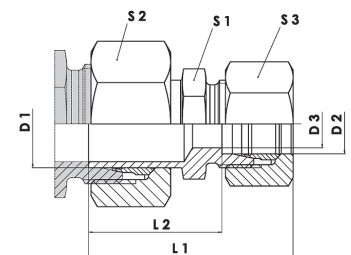


## ACERO INOXIDABLE AISI-316

Reducción adaptable

RA

| Serie    | D1 | D2 | D3   | L1   | L2   | S1 | S2 | S3  | Peso | PN           | Código       |
|----------|----|----|------|------|------|----|----|-----|------|--------------|--------------|
| <b>L</b> | 22 | 12 | 10   | 47,5 | 32,5 | 24 | 36 | 22  | 186  | 250          | 55 RA 2212 L |
|          | 22 | 15 | 12   | 48,5 | 33,5 | 24 | 36 | 27  | 214  | 250          | 55 RA 2215 L |
|          | 22 | 18 | 15   | 50,5 | 34   | 27 | 36 | 32  | 245  | 250          | 55 RA 2218 L |
|          | 28 | 10 | 8    | 50   | 35   | 30 | 41 | 19  | 215  | 250          | 55 RA 2810 L |
|          | 28 | 12 | 10   | 51   | 35   | 30 | 41 | 22  | 214  | 250          | 55 RA 2812 L |
|          | 28 | 15 | 12   | 51   | 36   | 30 | 41 | 27  | 245  | 250          | 55 RA 2815 L |
|          | 28 | 18 | 15   | 52   | 35,5 | 30 | 41 | 32  | 257  | 250          | 55 RA 2818 L |
|          | 28 | 22 | 19   | 54,5 | 37,5 | 32 | 41 | 36  | 310  | 250          | 55 RA 2822 L |
|          | 35 | 15 | 12   | 58,5 | 43,5 | 36 | 50 | 27  | 368  | 250          | 55 RA 3515 L |
|          | 35 | 18 | 15   | 59,5 | 43   | 36 | 50 | 32  | 392  | 250          | 55 RA 3518 L |
|          | 35 | 22 | 19   | 61,5 | 45   | 36 | 50 | 36  | 480  | 250          | 55 RA 3522 L |
|          | 35 | 28 | 24   | 61,5 | 45   | 41 | 50 | 41  | 426  | 250          | 55 RA 3528 L |
|          | 42 | 15 | 12   | 61,5 | 46,5 | 46 | 60 | 27  | 530  | 250          | 55 RA 4215 L |
|          | 42 | 18 | 15   | 62,5 | 46   | 46 | 60 | 32  | 530  | 250          | 55 RA 4218 L |
| 42       | 22 | 19 | 64,5 | 48   | 46   | 60 | 36 | 540 | 250  | 55 RA 4222 L |              |
| 42       | 28 | 24 | 64,5 | 48   | 46   | 60 | 41 | 576 | 250  | 55 RA 4228 L |              |
| 42       | 35 | 30 | 68,5 | 47   | 46   | 60 | 50 | 640 | 250  | 55 RA 4235 L |              |
| <b>S</b> | 08 | 06 | 4    | 46,5 | 31,5 | 17 | 19 | 17  | 68   | 800          | 55 RA 0806 S |
|          | 10 | 06 | 4    | 48,5 | 33,5 | 19 | 22 | 17  | 80   | 800          | 55 RA 1006 S |
|          | 10 | 08 | 5    | 49   | 34   | 19 | 22 | 19  | 85   | 800          | 55 RA 1008 S |
|          | 12 | 06 | 4    | 48   | 33   | 22 | 24 | 17  | 90   | 630          | 55 RA 1206 S |
|          | 12 | 08 | 5    | 48,5 | 33,5 | 22 | 24 | 19  | 98   | 630          | 55 RA 1208 S |
|          | 12 | 10 | 7    | 49,5 | 33   | 22 | 24 | 22  | 100  | 630          | 55 RA 1210 S |
|          | 14 | 06 | 4    | 50   | 35   | 24 | 27 | 17  | 105  | 630          | 55 RA 1406 S |
|          | 14 | 08 | 5    | 50   | 35   | 24 | 27 | 19  | 110  | 630          | 55 RA 1408 S |
|          | 14 | 10 | 7    | 51   | 34,5 | 24 | 27 | 22  | 125  | 630          | 55 RA 1410 S |
|          | 14 | 12 | 8    | 52   | 35,5 | 24 | 27 | 24  | 130  | 630          | 55 RA 1412 S |
|          | 16 | 06 | 4    | 51   | 36   | 27 | 30 | 17  | 135  | 630          | 55 RA 1606 S |
|          | 16 | 08 | 5    | 51   | 36   | 27 | 30 | 19  | 140  | 630          | 55 RA 1608 S |
|          | 16 | 10 | 7    | 52   | 35,5 | 27 | 30 | 22  | 145  | 630          | 55 RA 1610 S |
|          | 16 | 12 | 8    | 53   | 36,5 | 27 | 30 | 24  | 150  | 630          | 55 RA 1612 S |
|          | 16 | 14 | 10   | 57   | 39   | 27 | 30 | 27  | 169  | 630          | 55 RA 1614 S |
|          | 20 | 06 | 4    | 57   | 42   | 32 | 36 | 17  | 195  | 420          | 55 RA 2006 S |
|          | 20 | 08 | 5    | 57   | 42   | 32 | 36 | 19  | 203  | 420          | 55 RA 2008 S |
|          | 20 | 10 | 7    | 58   | 41,5 | 32 | 36 | 22  | 220  | 420          | 55 RA 2010 S |
|          | 20 | 12 | 8    | 58   | 41,5 | 32 | 36 | 24  | 240  | 420          | 55 RA 2012 S |
|          | 20 | 14 | 10   | 62   | 44   | 32 | 36 | 27  | 250  | 420          | 55 RA 2014 S |
|          | 20 | 16 | 12   | 62   | 43,5 | 32 | 36 | 30  | 265  | 420          | 55 RA 2016 S |
|          | 25 | 06 | 4    | 61   | 46   | 41 | 46 | 17  | 350  | 420          | 55 RA 2506 S |
|          | 25 | 08 | 5    | 61   | 46   | 41 | 46 | 19  | 360  | 420          | 55 RA 2508 S |
|          | 25 | 10 | 7    | 62   | 45,5 | 41 | 46 | 22  | 430  | 420          | 55 RA 2510 S |
|          | 25 | 12 | 8    | 62   | 45,5 | 41 | 46 | 24  | 384  | 420          | 55 RA 2512 S |
|          | 25 | 14 | 10   | 65   | 47   | 41 | 46 | 27  | 381  | 420          | 55 RA 2514 S |
|          | 25 | 16 | 12   | 65   | 46,5 | 41 | 46 | 30  | 405  | 420          | 55 RA 2516 S |
|          | 25 | 20 | 16   | 69   | 47,5 | 41 | 46 | 36  | 415  | 420          | 55 RA 2520 S |
|          | 30 | 10 | 7    | 71   | 45,5 | 46 | 50 | 22  | 410  | 420          | 55 RA 3010 S |
|          | 30 | 12 | 8    | 70,5 | 45,5 | 46 | 50 | 24  | 414  | 420          | 55 RA 3012 S |
|          | 30 | 14 | 10   | 72   | 47   | 46 | 50 | 27  | 465  | 420          | 55 RA 3014 S |
|          | 30 | 16 | 12   | 73   | 46,5 | 46 | 50 | 30  | 467  | 420          | 55 RA 3016 S |
|          | 30 | 20 | 16   | 78   | 46,5 | 46 | 50 | 36  | 510  | 420          | 55 RA 3020 S |
|          | 30 | 25 | 20   | 81   | 48   | 46 | 50 | 46  | 632  | 420          | 55 RA 3025 S |
| 38       | 10 | 7  | 78   | 52,5 | 58   | 60 | 22 | 575 | 420  | 55 RA 3810 S |              |
| 38       | 12 | 8  | 77   | 52,5 | 55   | 60 | 24 | 580 | 420  | 55 RA 3812 S |              |
| 38       | 14 | 10 | 81   | 54   | 55   | 60 | 27 | 617 | 420  | 55 RA 3814 S |              |
| 38       | 16 | 12 | 80   | 53,5 | 55   | 60 | 30 | 620 | 420  | 55 RA 3816 S |              |
| 38       | 20 | 16 | 85   | 53,5 | 55   | 60 | 36 | 820 | 420  | 55 RA 3820 S |              |
| 38       | 25 | 20 | 88   | 54   | 55   | 60 | 46 | 880 | 420  | 55 RA 3825 S |              |
| 38       | 30 | 25 | 91   | 55,5 | 55   | 60 | 50 | 910 | 420  | 55 RA 3830 S |              |

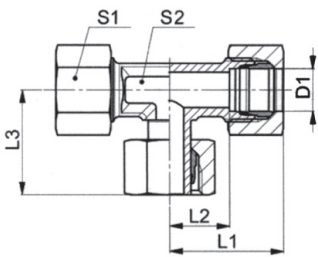
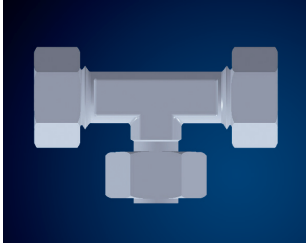


Peso = gr./u.  
PN = bar

## ACERO INOXIDABLE AISI-316

### TA

Te adaptable

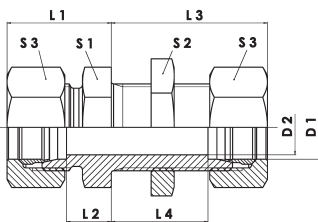
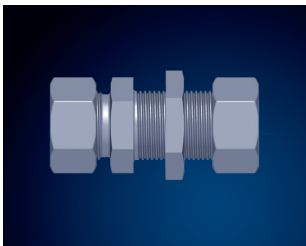


| Serie | D1   | L1   | L2   | L3   | S1 | S2   | Peso | PN         | Código     |
|-------|------|------|------|------|----|------|------|------------|------------|
| L     | 06   | 27,0 | 12,0 | 26,0 | 14 | 12   | 62   | 500        | 55 TA 06 L |
|       | 08   | 29,0 | 14,0 | 27,5 | 17 | 12   | 84   | 500        | 55 TA 08 L |
|       | 10   | 30,0 | 15,0 | 29,0 | 19 | 14   | 110  | 500        | 55 TA 10 L |
|       | 12   | 32,0 | 17,0 | 29,5 | 22 | 17   | 145  | 400        | 55 TA 12 L |
|       | 15   | 36,0 | 21,0 | 32,5 | 27 | 19   | 246  | 400        | 55 TA 15 L |
|       | 18   | 40,0 | 23,5 | 35,5 | 32 | 24   | 351  | 400        | 55 TA 18 L |
|       | 22   | 44,0 | 27,5 | 38,5 | 36 | 27   | 486  | 250        | 55 TA 22 L |
|       | 28   | 47,0 | 30,5 | 41,5 | 41 | 36   | 667  | 250        | 55 TA 28 L |
|       | 35   | 56,0 | 34,5 | 51,0 | 50 | 41   | 1005 | 250        | 55 TA 35 L |
| 42    | 63,0 | 40,0 | 56,0 | 60   | 50 | 1539 | 250  | 55 TA 42 L |            |
| S     | 06   | 31,0 | 16,0 | 27,0 | 17 | 12   | 100  | 800        | 55 TA 06 S |
|       | 08   | 32,0 | 17,0 | 27,5 | 19 | 14   | 125  | 800        | 55 TA 08 S |
|       | 10   | 34,0 | 17,5 | 30,0 | 22 | 17   | 176  | 800        | 55 TA 10 S |
|       | 12   | 38,0 | 21,5 | 31,0 | 24 | 17   | 217  | 630        | 55 TA 12 S |
|       | 14   | 40,0 | 22,0 | 35,0 | 27 | 19   | 298  | 630        | 55 TA 14 S |
|       | 16   | 43,0 | 24,5 | 36,5 | 30 | 24   | 382  | 630        | 55 TA 16 S |
|       | 20   | 48,0 | 26,5 | 44,5 | 36 | 27   | 602  | 420        | 55 TA 20 S |
|       | 25   | 54,0 | 30,0 | 50,0 | 46 | 36   | 1149 | 420        | 55 TA 25 S |
|       | 30   | 62,0 | 35,5 | 55,0 | 50 | 41   | 1433 | 420        | 55 TA 30 S |
| 38    | 72,0 | 41,0 | 63,0 | 60   | 50 | 2187 | 420  | 55 TA 38 S |            |

Peso = gr./u.  
PN = bar

### PT

Pasamuros tubo-tubo



| Serie | D1 | D2 | L1   | L2   | L3   | L4   | S1 | S2 | S3   | Peso | PN         | Código     |
|-------|----|----|------|------|------|------|----|----|------|------|------------|------------|
| L     | 06 | 4  | 22   | 7,0  | 42   | 27,0 | 17 | 17 | 14   | 72   | 500        | 55 PT 06 L |
|       | 08 | 6  | 23   | 8,0  | 42   | 27,0 | 19 | 19 | 17   | 83   | 500        | 55 PT 08 L |
|       | 10 | 8  | 25   | 10,0 | 43   | 28,0 | 22 | 22 | 19   | 125  | 500        | 55 PT 10 L |
|       | 12 | 10 | 25   | 10,0 | 44   | 29,0 | 24 | 24 | 22   | 135  | 400        | 55 PT 12 L |
|       | 15 | 12 | 27   | 12,0 | 46   | 31,0 | 27 | 30 | 27   | 230  | 400        | 55 PT 15 L |
|       | 18 | 15 | 30   | 13,5 | 49   | 32,5 | 32 | 36 | 32   | 345  | 400        | 55 PT 18 L |
|       | 22 | 19 | 33   | 16,5 | 51   | 34,5 | 36 | 41 | 36   | 435  | 250        | 55 PT 22 L |
|       | 28 | 24 | 35   | 18,5 | 52   | 35,5 | 41 | 46 | 41   | 545  | 250        | 55 PT 28 L |
|       | 35 | 30 | 37   | 18,5 | 58   | 36,5 | 50 | 55 | 50   | 874  | 250        | 55 PT 35 L |
| 42    | 36 | 42 | 19,0 | 59   | 36,0 | 60   | 65 | 60 | 1365 | 250  | 55 PT 42 L |            |
| S     | 06 | 4  | 27   | 12,0 | 44   | 29,0 | 19 | 19 | 17   | 112  | 800        | 55 PT 06 S |
|       | 08 | 5  | 28   | 13,0 | 44   | 29,0 | 22 | 22 | 19   | 132  | 800        | 55 PT 08 S |
|       | 10 | 7  | 31   | 14,5 | 46   | 29,5 | 24 | 24 | 22   | 170  | 800        | 55 PT 10 S |
|       | 12 | 8  | 31   | 14,5 | 47   | 30,5 | 27 | 27 | 24   | 215  | 630        | 55 PT 12 S |
|       | 14 | 10 | 35   | 17,0 | 50   | 32,0 | 30 | 30 | 27   | 322  | 630        | 55 PT 14 S |
|       | 16 | 12 | 35   | 16,5 | 50   | 31,5 | 32 | 32 | 30   | 345  | 630        | 55 PT 16 S |
|       | 20 | 16 | 39   | 17,5 | 55   | 33,5 | 41 | 41 | 36   | 575  | 420        | 55 PT 20 S |
|       | 25 | 20 | 44   | 20,0 | 59   | 35,0 | 46 | 46 | 46   | 949  | 420        | 55 PT 25 S |
|       | 30 | 25 | 48   | 21,5 | 64   | 37,5 | 50 | 50 | 50   | 1120 | 420        | 55 PT 30 S |
| 38    | 32 | 53 | 22,0 | 68   | 37,0 | 65   | 65 | 60 | 1445 | 420  | 55 PT 38 S |            |

Peso = gr./u.  
PN = bar

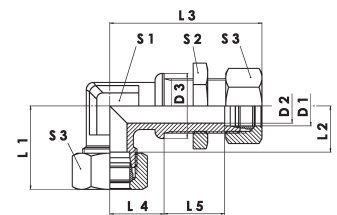
## ACERO INOXIDABLE AISI-316

### Codo pasamuro

CP

| Serie    | D1 | D2 | D3 | L1   | L2   | L3 | L4 | L5   | S1 | S2 | S3 | Peso | PN  | Código     |
|----------|----|----|----|------|------|----|----|------|----|----|----|------|-----|------------|
| <b>L</b> | 06 | 4  | 17 | 27   | 12   | 42 | 14 | 27   | 12 | 17 | 14 | 73   | 500 | 55 CP 06 L |
|          | 08 | 6  | 19 | 29   | 14   | 42 | 17 | 27   | 12 | 19 | 17 | 92   | 500 | 55 CP 08 L |
|          | 10 | 8  | 22 | 30,5 | 15   | 43 | 18 | 28   | 14 | 22 | 19 | 172  | 500 | 55 CP 10 L |
|          | 12 | 10 | 24 | 32,5 | 17   | 44 | 20 | 29   | 17 | 24 | 22 | 215  | 400 | 55 CP 12 L |
|          | 15 | 12 | 27 | 37   | 21   | 46 | 23 | 31   | 19 | 30 | 27 | 345  | 400 | 55 CP 15 L |
|          | 18 | 15 | 32 | 40,5 | 23,5 | 49 | 24 | 32,5 | 24 | 36 | 32 | 380  | 400 | 55 CP 18 L |
|          | 22 | 19 | 36 | 44,5 | 27,5 | 51 | 30 | 34,5 | 27 | 41 | 36 | 490  | 250 | 55 CP 22 L |
|          | 28 | 24 | 42 | 47,5 | 30,5 | 52 | 34 | 35,5 | 36 | 46 | 41 | 678  | 250 | 55 CP 28 L |
|          | 35 | 30 | 50 | 57   | 34,5 | 58 | 39 | 36,5 | 41 | 55 | 50 | 1055 | 250 | 55 CP 35 L |
|          | 42 | 36 | 60 | 63,5 | 40   | 59 | 43 | 36   | 50 | 65 | 60 | 1583 | 250 | 55 CP 42 L |
| <b>S</b> | 06 | 4  | 19 | 31   | 16   | 44 | 17 | 29   | 12 | 19 | 17 | 117  | 800 | 55 CP 06 S |
|          | 08 | 5  | 22 | 32,5 | 17   | 44 | 18 | 29   | 14 | 22 | 19 | 185  | 800 | 55 CP 08 S |
|          | 10 | 7  | 24 | 34,5 | 17,5 | 46 | 20 | 29,5 | 17 | 24 | 22 | 195  | 800 | 55 CP 10 S |
|          | 12 | 8  | 27 | 38,5 | 21,5 | 47 | 21 | 30   | 17 | 27 | 24 | 245  | 630 | 55 CP 12 S |
|          | 14 | 10 | 27 | 40,5 | 22   | 50 | 23 | 32   | 19 | 30 | 27 | 375  | 630 | 55 CP 14 S |
|          | 16 | 12 | 30 | 44   | 24,5 | 50 | 24 | 31,5 | 24 | 32 | 30 | 395  | 630 | 55 CP 16 S |
|          | 20 | 16 | 36 | 49,5 | 26,5 | 55 | 30 | 33,5 | 27 | 41 | 36 | 606  | 420 | 55 CP 20 S |
|          | 25 | 20 | 42 | 55,5 | 30   | 59 | 34 | 35   | 36 | 46 | 46 | 1050 | 420 | 55 CP 25 S |
|          | 30 | 25 | 50 | 63,5 | 35,5 | 64 | 39 | 37,5 | 41 | 50 | 50 | 1360 | 420 | 55 CP 30 S |
|          | 38 | 32 | 60 | 74   | 41   | 68 | 43 | 37   | 50 | 65 | 60 | 2060 | 420 | 55 CP 38 S |

Peso = gr./u.  
PN = bar

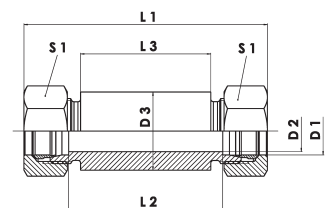
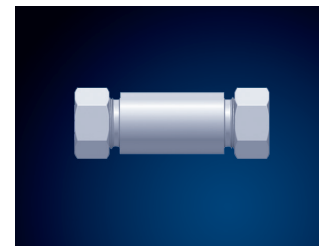


### Pasamuros - Soldar tubo-tubo

PST

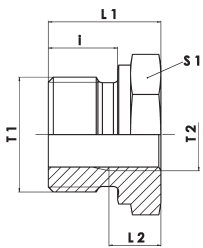
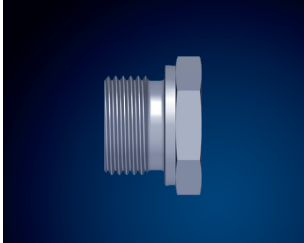
| Serie    | D1 | D2 | D3 | L1  | L2 | L3 | S1 | Peso | PN  | Código      |
|----------|----|----|----|-----|----|----|----|------|-----|-------------|
| <b>L</b> | 06 | 4  | 18 | 86  | 56 | 50 | 14 | 127  | 500 | 55 PST 06 L |
|          | 08 | 6  | 20 | 86  | 56 | 50 | 17 | 155  | 500 | 55 PST 08 L |
|          | 10 | 8  | 22 | 88  | 58 | 50 | 19 | 184  | 500 | 55 PST 10 L |
|          | 12 | 10 | 25 | 88  | 58 | 50 | 22 | 236  | 400 | 55 PST 12 L |
|          | 15 | 12 | 28 | 100 | 70 | 60 | 27 | 360  | 400 | 55 PST 15 L |
|          | 18 | 15 | 32 | 102 | 69 | 60 | 32 | 480  | 400 | 55 PST 18 L |
|          | 22 | 19 | 36 | 106 | 73 | 60 | 36 | 590  | 250 | 55 PST 22 L |
|          | 28 | 24 | 40 | 106 | 73 | 60 | 41 | 668  | 250 | 55 PST 28 L |
|          | 35 | 30 | 50 | 114 | 71 | 60 | 50 | 1065 | 250 | 55 PST 35 L |
|          | 42 | 36 | 60 | 116 | 70 | 60 | 60 | 1530 | 250 | 55 PST 42 L |
| <b>S</b> | 06 | 4  | 20 | 90  | 60 | 50 | 17 | 177  | 800 | 55 PST 06 S |
|          | 08 | 5  | 22 | 90  | 60 | 50 | 19 | 210  | 800 | 55 PST 08 S |
|          | 10 | 7  | 25 | 92  | 59 | 50 | 22 | 272  | 800 | 55 PST 10 S |
|          | 12 | 8  | 28 | 92  | 59 | 50 | 24 | 333  | 630 | 55 PST 12 S |
|          | 14 | 10 | 30 | 108 | 72 | 60 | 27 | 454  | 630 | 55 PST 14 S |
|          | 16 | 12 | 35 | 108 | 71 | 60 | 30 | 590  | 630 | 55 PST 16 S |
|          | 20 | 16 | 38 | 114 | 71 | 60 | 36 | 748  | 420 | 55 PST 20 S |
|          | 25 | 20 | 45 | 120 | 72 | 60 | 46 | 1180 | 420 | 55 PST 25 S |
|          | 30 | 25 | 50 | 126 | 73 | 60 | 50 | 1390 | 420 | 55 PST 30 S |
|          | 38 | 32 | 60 | 134 | 72 | 60 | 60 | 2011 | 420 | 55 PST 38 S |

Peso = gr./u.  
PN = bar



**TUR**

**Tuerca reducción - F241**

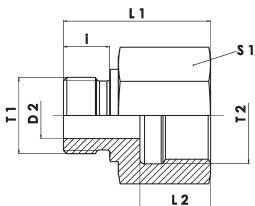


| T1      | T2    | L1   | L2   | i  | S1 | Peso | PN  | Código        |
|---------|-------|------|------|----|----|------|-----|---------------|
| G 3/8   | G 1/8 | 22,5 | 10,5 | 12 | 22 | 40   | 800 | 55 TUR 010006 |
| G 1/2   | G 1/8 | 24   | 10   | 14 | 27 | 65   | 800 | 55 TUR 015006 |
| G 1/2   | G 1/4 | 24   | 10   | 14 | 27 | 57   | 800 | 55 TUR 015008 |
| G 3/4   | G 1/4 | 26   | 10   | 16 | 32 | 105  | 800 | 55 TUR 020008 |
| G 3/4   | G 3/8 | 26   | 10   | 16 | 32 | 94   | 800 | 55 TUR 020010 |
| G 3/4   | G 1/2 | 43   | 10   | 16 | 32 | 156  | 800 | 55 TUR 020015 |
| G 1     | G 1/4 | 29   | 11   | 18 | 41 | 195  | 630 | 55 TUR 025008 |
| G 1     | G 3/8 | 29   | 11   | 18 | 41 | 177  | 630 | 55 TUR 025010 |
| G 1     | G 1/2 | 29   | 11   | 18 | 41 | 155  | 630 | 55 TUR 025015 |
| G 1 1/4 | G 1/2 | 32   | 12   | 20 | 50 | 320  | 420 | 55 TUR 032015 |
| G 1 1/4 | G 3/4 | 32   | 12   | 20 | 50 | 264  | 420 | 55 TUR 032020 |
| G 1 1/2 | G 1/2 | 36   | 14   | 22 | 55 | 486  | 420 | 55 TUR 040015 |
| G 1 1/2 | G 3/4 | 36   | 14   | 22 | 55 | 430  | 420 | 55 TUR 040020 |
| G 1 1/2 | G 1   | 36   | 14   | 22 | 55 | 346  | 420 | 55 TUR 040025 |

Peso = gr./u.  
PN = bar

**MMH**

**Manguito MH DIN/ISO 228-1 - F246**



| T1      | T2      | D2 | L1 | L2   | i  | S1 | Peso | PN  | Código        |
|---------|---------|----|----|------|----|----|------|-----|---------------|
| G 1/8   | G 1/4   | 4  | 31 | 17   | 8  | 19 | 30   | 800 | 55 MMH 006008 |
| G 1/8   | G 3/8   | 4  | 32 | 17   | 8  | 24 | 65   | 800 | 55 MMH 006010 |
| G 1/4   | G 3/8   | 5  | 36 | 17   | 12 | 24 | 68   | 800 | 55 MMH 008010 |
| G 1/4   | G 1/2   | 5  | 40 | 20   | 12 | 30 | 116  | 800 | 55 MMH 008015 |
| G 1/4   | G 3/4   | 5  | 43 | 22   | 12 | 36 | 170  | 800 | 55 MMH 008020 |
| G 3/8   | G 1/2   | 8  | 41 | 20   | 12 | 30 | 125  | 800 | 55 MMH 010015 |
| G 3/8   | G 3/4   | 8  | 44 | 22   | 12 | 36 | 185  | 800 | 55 MMH 010020 |
| G 1/2   | G 3/4   | 12 | 46 | 22   | 14 | 36 | 186  | 800 | 55 MMH 015020 |
| G 1/2   | G 1     | 12 | 49 | 24,5 | 14 | 41 | 220  | 630 | 55 MMH 015025 |
| G 1/2   | G 1 1/4 | 12 | 53 | 26,5 | 14 | 55 | 487  | 420 | 55 MMH 015032 |
| G 3/4   | G 1     | 16 | 51 | 24,5 | 16 | 41 | 240  | 630 | 55 MMH 020025 |
| G 3/4   | G 1 1/4 | 16 | 51 | 26,5 | 16 | 55 | 525  | 420 | 55 MMH 020032 |
| G 3/4   | G 1 1/2 | 16 | 57 | 28,5 | 16 | 60 | 620  | 420 | 55 MMH 020040 |
| G 1     | G 1 1/4 | 20 | 57 | 26,5 | 18 | 55 | 520  | 420 | 55 MMH 025032 |
| G 1     | G 1 1/2 | 20 | 59 | 28,5 | 18 | 60 | 600  | 420 | 55 MMH 025040 |
| G 1 1/4 | G 1 1/2 | 25 | 60 | 28,5 | 20 | 60 | 640  | 420 | 55 MMH 032040 |

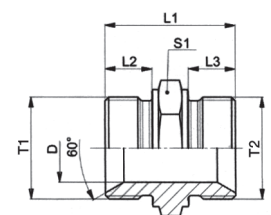
Peso = gr./u.  
PN = bar

## ACERO INOXIDABLE AISI-316

### Machón - Rosca BSPP cilíndrica DIN/ISO 228-1 - F280

**M**

| T1      | T2      | D    | L1   | L2   | L3   | S1 | Peso | Código   |
|---------|---------|------|------|------|------|----|------|----------|
| G 1/8   | G 1/8   | 4,0  | 23,0 | 8,0  | 8,0  | 14 | 14   | 55 M 006 |
| G 1/4   | G 1/4   | 6,0  | 29,0 | 10,0 | 10,0 | 19 | 32   | 55 M 008 |
| G 3/8   | G 3/8   | 8,0  | 35,0 | 12,0 | 12,0 | 22 | 56   | 55 M 010 |
| G 1/2   | G 1/2   | 10,0 | 41,0 | 14,0 | 14,0 | 27 | 100  | 55 M 015 |
| G 3/4   | G 3/4   | 15,0 | 46,0 | 16,0 | 16,0 | 32 | 151  | 55 M 020 |
| G 1     | G 1     | 19,0 | 52,0 | 18,0 | 18,0 | 41 | 250  | 55 M 025 |
| G 1 1/4 | G 1 1/4 | 30,0 | 58,0 | 20,0 | 20,0 | 50 | 371  | 55 M 032 |
| G 1 1/2 | G 1 1/2 | 32,0 | 61,0 | 22,0 | 22,0 | 55 | 511  | 55 M 040 |

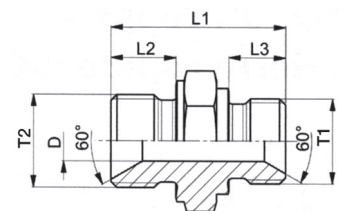


Peso = gr./u.  
PN = bar

### Machón reducido - Rosca BSPP cilíndrica DIN/ISO 228-1 - F245

**MR**

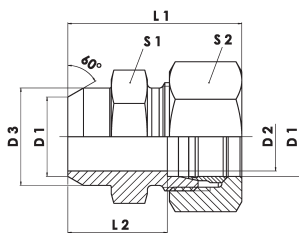
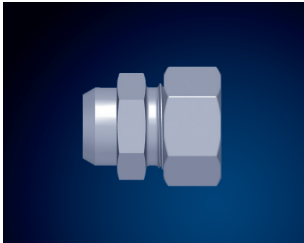
| T1      | T2      | D    | L1   | L2   | L3   | S1 | Peso | Código       |
|---------|---------|------|------|------|------|----|------|--------------|
| G 1/4   | G 1/8   | 4,0  | 30,0 | 8,0  | 12,0 | 19 | 33   | 55 MR 008006 |
| G 3/8   | G 1/8   | 4,0  | 30,5 | 8,0  | 12,0 | 22 | 47   | 55 MR 010006 |
| G 3/8   | G 1/4   | 6,0  | 35,0 | 12,0 | 12,0 | 22 | 53   | 55 MR 010008 |
| G 1/2   | G 1/4   | 6,0  | 39,0 | 12,0 | 14,0 | 27 | 98   | 55 MR 015008 |
| G 1/2   | G 3/8   | 8,0  | 39,5 | 14,0 | 12,0 | 27 | 93   | 55 MR 015010 |
| G 3/4   | G 3/8   | 8,0  | 42,5 | 16,0 | 12,0 | 32 | 142  | 55 MR 020010 |
| G 3/4   | G 1/2   | 10,0 | 45,0 | 16,0 | 14,0 | 32 | 153  | 55 MR 020015 |
| G 1     | G 3/8   | 8,0  | 45,5 | 12,0 | 18,0 | 41 | 236  | 55 MR 025010 |
| G 1     | G 1/2   | 10,0 | 48,0 | 14,0 | 18,0 | 41 | 233  | 55 MR 025015 |
| G 1     | G 3/4   | 15,0 | 54,0 | 16,0 | 18,0 | 41 | 252  | 55 MR 025020 |
| G 1 1/4 | G 1     | 20,0 | 56,0 | 18,0 | 20,0 | 50 | 394  | 55 MR 032025 |
| G 1 1/2 | G 1 1/4 | 22,0 | 63,0 | 20,0 | 22,0 | 55 | 608  | 55 MR 040032 |



Peso = gr./u.  
PN = bar

US

Unión para soldar

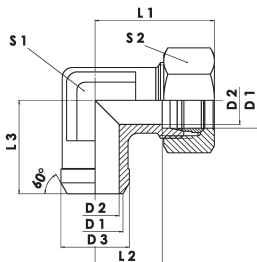


| Serie | D1 | D2 | D3   | L1   | L2   | S1 | S2 | Peso | PN  | Código     |
|-------|----|----|------|------|------|----|----|------|-----|------------|
| L     | 06 | 4  | 10,0 | 29   | 14,0 | 12 | 14 | 25   | 500 | 55 US 06 L |
|       | 08 | 6  | 12,0 | 31   | 16,0 | 14 | 17 | 36   | 500 | 55 US 08 L |
|       | 10 | 8  | 14,0 | 33,0 | 18,0 | 17 | 19 | 47   | 500 | 55 US 10 L |
|       | 12 | 10 | 16,0 | 33,0 | 18,0 | 19 | 22 | 55   | 400 | 55 US 12 L |
|       | 15 | 12 | 19,0 | 37,0 | 22,0 | 24 | 27 | 90   | 400 | 55 US 15 L |
|       | 18 | 15 | 22,0 | 40,0 | 23,5 | 27 | 32 | 130  | 400 | 55 US 18 L |
|       | 22 | 19 | 27,0 | 45,0 | 28,5 | 32 | 36 | 190  | 250 | 55 US 22 L |
|       | 28 | 24 | 32,0 | 47,0 | 30,5 | 41 | 41 | 270  | 250 | 55 US 28 L |
|       | 35 | 30 | 40,0 | 54,0 | 32,5 | 46 | 50 | 395  | 250 | 55 US 35 L |
|       | 42 | 36 | 46,0 | 58,0 | 35,0 | 55 | 60 | 585  | 250 | 55 US 42 L |
| S     | 06 | 4  | 11,0 | 34,0 | 19,0 | 14 | 17 | 38   | 800 | 55 US 06 S |
|       | 08 | 5  | 13,0 | 36,0 | 21,0 | 17 | 19 | 54   | 800 | 55 US 08 S |
|       | 10 | 7  | 15,0 | 39,0 | 22,5 | 19 | 22 | 70   | 800 | 55 US 10 S |
|       | 12 | 8  | 17,0 | 41,0 | 24,5 | 22 | 24 | 125  | 630 | 55 US 12 S |
|       | 14 | 10 | 19,0 | 45,0 | 27,0 | 24 | 27 | 140  | 630 | 55 US 14 S |
|       | 16 | 12 | 21,0 | 45,0 | 26,5 | 27 | 30 | 156  | 630 | 55 US 16 S |
|       | 20 | 16 | 26,0 | 51,0 | 29,5 | 32 | 36 | 240  | 420 | 55 US 20 S |
|       | 25 | 20 | 31,0 | 56,0 | 32,0 | 41 | 46 | 460  | 420 | 55 US 25 S |
|       | 30 | 25 | 36,0 | 62,0 | 35,5 | 46 | 50 | 555  | 420 | 55 US 30 S |
|       | 38 | 32 | 44,0 | 69,0 | 38,0 | 55 | 60 | 786  | 420 | 55 US 38 S |

Peso = gr./u.  
PN = bar

CS

Codo para soldar



| Serie | D1 | D2 | D3   | L1 | L2   | L3 | S1 | S2 | Peso | PN  | Código     |
|-------|----|----|------|----|------|----|----|----|------|-----|------------|
| L     | 06 | 4  | 10,0 | 27 | 12,0 | 19 | 12 | 14 | 34   | 500 | 55 CS 06 L |
|       | 08 | 6  | 12,0 | 29 | 14,0 | 23 | 12 | 17 | 47   | 500 | 55 CS 08 L |
|       | 10 | 8  | 14,0 | 30 | 15,0 | 24 | 14 | 19 | 61   | 500 | 55 CS 10 L |
|       | 12 | 10 | 16,0 | 32 | 17,0 | 25 | 17 | 22 | 78   | 400 | 55 CS 12 L |
|       | 15 | 12 | 19,0 | 36 | 21,0 | 30 | 19 | 27 | 127  | 400 | 55 CS 15 L |
|       | 18 | 15 | 22,0 | 40 | 23,5 | 33 | 24 | 32 | 204  | 400 | 55 CS 18 L |
|       | 22 | 19 | 27,0 | 44 | 27,5 | 37 | 27 | 36 | 261  | 250 | 55 CS 22 L |
|       | 28 | 24 | 32,0 | 47 | 30,5 | 42 | 36 | 41 | 382  | 250 | 55 CS 28 L |
|       | 35 | 30 | 40,0 | 56 | 34,5 | 49 | 41 | 50 | 638  | 250 | 55 CS 35 L |
|       | 42 | 36 | 46,0 | 63 | 40,0 | 57 | 50 | 60 | 998  | 250 | 55 CS 42 L |
| S     | 06 | 4  | 11,0 | 31 | 16,0 | 23 | 12 | 17 | 54   | 800 | 55 CS 06 S |
|       | 08 | 5  | 13,0 | 32 | 17,0 | 24 | 14 | 19 | 71   | 800 | 55 CS 08 S |
|       | 10 | 7  | 15,0 | 34 | 17,5 | 25 | 17 | 22 | 96   | 800 | 55 CS 10 S |
|       | 12 | 8  | 17,0 | 38 | 21,5 | 29 | 17 | 24 | 123  | 630 | 55 CS 12 S |
|       | 14 | 10 | 19,0 | 40 | 22,0 | 30 | 19 | 27 | 154  | 630 | 55 CS 14 S |
|       | 16 | 12 | 21,0 | 43 | 24,5 | 33 | 24 | 30 | 230  | 630 | 55 CS 16 S |
|       | 20 | 16 | 26,0 | 48 | 26,5 | 37 | 27 | 36 | 327  | 420 | 55 CS 20 S |
|       | 25 | 20 | 31,0 | 54 | 30,0 | 42 | 36 | 46 | 589  | 420 | 55 CS 25 S |
|       | 30 | 25 | 36,0 | 62 | 35,5 | 49 | 41 | 50 | 839  | 420 | 55 CS 30 S |
|       | 38 | 32 | 44,0 | 72 | 41,0 | 57 | 50 | 60 | 1298 | 420 | 55 CS 38 S |

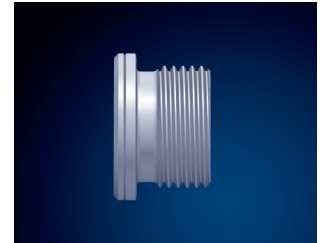
Peso = gr./u.  
PN = bar

## ACERO INOXIDABLE AISI-316

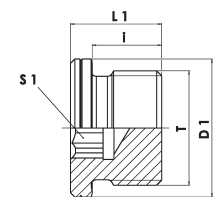
### Tapón macho - F290

### TAM

| T       | D1   | L1   | i  | S1 | Peso | Código     |
|---------|------|------|----|----|------|------------|
| G 1/8   | 14,0 | 12   | 8  | 5  | 6    | 55 TAM 006 |
| G 1/4   | 18,0 | 17   | 12 | 6  | 18   | 55 TAM 008 |
| G 3/8   | 22,0 | 17   | 12 | 8  | 26   | 55 TAM 010 |
| G 1/2   | 26,0 | 19   | 14 | 10 | 44   | 55 TAM 015 |
| G 3/4   | 32,0 | 21   | 14 | 12 | 76   | 55 TAM 020 |
| G 1     | 39,0 | 22,5 | 16 | 17 | 126  | 55 TAM 025 |
| G 1 1/4 | 49,0 | 22,5 | 16 | 22 | 192  | 55 TAM 032 |
| G 1 1/2 | 55,0 | 22,5 | 16 | 24 | 268  | 55 TAM 040 |



Peso = gr./u.  
PN = bar



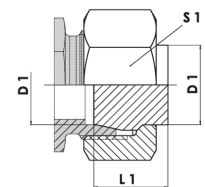
### Tapón con tuerca para cono 24°

### TAC

| Serie    | D1   | L1   | S1  | Peso | PN          | Código      |
|----------|------|------|-----|------|-------------|-------------|
| <b>L</b> | 06   | 17,5 | 14  | 15   | 630         | 55 TAC 06 L |
|          | 08   | 18,5 | 17  | 24   | 630         | 55 TAC 08 L |
|          | 10   | 19,0 | 19  | 33   | 630         | 55 TAC 10 L |
|          | 12   | 19,0 | 22  | 46   | 630         | 55 TAC 12 L |
|          | 15   | 19,5 | 27  | 76   | 400         | 55 TAC 15 L |
|          | 18   | 20,0 | 32  | 111  | 400         | 55 TAC 18 L |
|          | 22   | 20,5 | 36  | 162  | 250         | 55 TAC 22 L |
|          | 28   | 21,5 | 41  | 220  | 250         | 55 TAC 28 L |
|          | 35   | 23,5 | 50  | 376  | 250         | 55 TAC 35 L |
| 42       | 23,5 | 60   | 558 | 250  | 55 TAC 42 L |             |
| <b>S</b> | 06   | 17,5 | 17  | 23   | 630         | 55 TAC 06 S |
|          | 08   | 18,5 | 19  | 29   | 630         | 55 TAC 08 S |
|          | 10   | 19,0 | 22  | 46   | 630         | 55 TAC 10 S |
|          | 12   | 19,0 | 24  | 55   | 630         | 55 TAC 12 S |
|          | 14   | 20,0 | 27  | 83   | 630         | 55 TAC 14 S |
|          | 16   | 20,0 | 30  | 106  | 630         | 55 TAC 16 S |
|          | 20   | 24,0 | 36  | 180  | 630         | 55 TAC 20 S |
|          | 25   | 25,0 | 46  | 322  | 630         | 55 TAC 25 S |
|          | 30   | 26,5 | 50  | 398  | 630         | 55 TAC 30 S |
| 38       | 28,5 | 60   | 647 | 630  | 55 TAC 38 S |             |

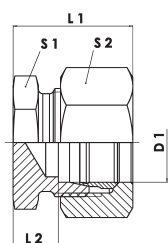
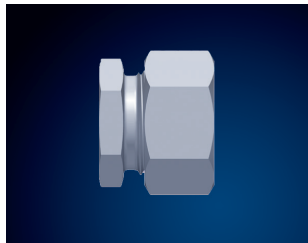


Peso = gr./u.  
PN = bar



TAT

Tapón para tubo

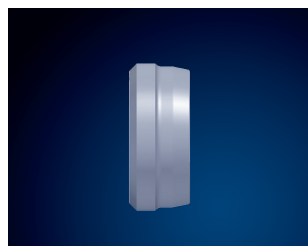


| Serie | D1 | L1   | L2   | S1 | S2 | Peso | PN  | Código      |
|-------|----|------|------|----|----|------|-----|-------------|
| L     | 06 | 24   | 7,0  | 12 | 14 | 22   | 500 | 55 TAT 06 L |
|       | 08 | 26   | 8,0  | 14 | 17 | 30   | 500 | 55 TAT 08 L |
|       | 10 | 27,5 | 9,0  | 17 | 19 | 38   | 500 | 55 TAT 10 L |
|       | 12 | 27,5 | 10,0 | 19 | 22 | 50   | 500 | 55 TAT 12 L |
|       | 15 | 31   | 11,0 | 24 | 27 | 84   | 500 | 55 TAT 15 L |
|       | 18 | 31,5 | 11,5 | 27 | 32 | 124  | 500 | 55 TAT 18 L |
|       | 22 | 35,5 | 13,5 | 32 | 36 | 166  | 250 | 55 TAT 22 L |
|       | 28 | 35,5 | 14,5 | 41 | 41 | 238  | 250 | 55 TAT 28 L |
|       | 35 | 42   | 14,5 | 46 | 50 | 356  | 250 | 55 TAT 35 L |
|       | 42 | 42,5 | 16,0 | 55 | 60 | 556  | 250 | 55 TAT 42 L |
| S     | 06 | 26   | 11,0 | 14 | 17 | 36   | 800 | 55 TAT 06 S |
|       | 08 | 28   | 13,0 | 17 | 19 | 42   | 800 | 55 TAT 08 S |
|       | 10 | 29,5 | 12,5 | 19 | 22 | 64   | 800 | 55 TAT 10 S |
|       | 12 | 29,5 | 14,5 | 22 | 24 | 78   | 630 | 55 TAT 12 S |
|       | 14 | 34,5 | 16,0 | 24 | 27 | 118  | 630 | 55 TAT 14 S |
|       | 16 | 35   | 15,5 | 27 | 30 | 142  | 630 | 55 TAT 16 S |
|       | 20 | 40,5 | 17,5 | 32 | 36 | 236  | 420 | 55 TAT 20 S |
|       | 25 | 43,5 | 20,0 | 41 | 46 | 448  | 420 | 55 TAT 25 S |
|       | 30 | 48,5 | 20,5 | 46 | 50 | 540  | 420 | 55 TAT 30 S |
|       | 38 | 53   | 23,0 | 55 | 60 | 870  | 420 | 55 TAT 38 S |

Peso = gr./u.  
PN = bar

AT

Anillo templado y tratamiento protector



| Serie | D1 | L1   | Peso | PN  | Código       |
|-------|----|------|------|-----|--------------|
| L     | 06 | 9    | 2    | 800 | 55 AT 06 L/S |
|       | 08 | 9    | 2    | 800 | 55 AT 08 L/S |
|       | 10 | 10   | 3    | 800 | 55 AT 10 L/S |
|       | 12 | 10   | 3    | 630 | 55 AT 12 L/S |
|       | 15 | 10   | 4    | 400 | 55 AT 15 L   |
|       | 18 | 10   | 5    | 400 | 55 AT 18 L   |
|       | 22 | 10,5 | 7    | 250 | 55 AT 22 L   |
|       | 28 | 10,5 | 8    | 250 | 55 AT 28 L   |
|       | 35 | 13   | 17   | 250 | 55 AT 35 L   |
|       | 42 | 13,5 | 22   | 250 | 55 AT 42 L   |
| S     | 14 | 10   | 4    | 630 | 55 AT 14 S   |
|       | 16 | 10,5 | 5    | 630 | 55 AT 16 S   |
|       | 20 | 12,5 | 9    | 420 | 55 AT 20 S   |
|       | 25 | 12,5 | 12   | 420 | 55 AT 25 S   |
|       | 30 | 13   | 16   | 420 | 55 AT 30 S   |
|       | 38 | 13,5 | 23   | 420 | 55 AT 38 S   |

Peso = gr./u.  
PN = bar

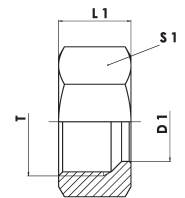


## ACERO INOXIDABLE AISI-316

### Tuerca DIN 3870 para anillo

**TU**

| Serie    | D1       | T          | L1   | S1  | Peso | PN         | Código     |
|----------|----------|------------|------|-----|------|------------|------------|
| <b>L</b> | 06       | M 12 x 1,5 | 14,5 | 14  | 10   | 500        | 55 TU 06 L |
|          | 08       | M 14 x 1,5 | 14,5 | 17  | 15   | 500        | 55 TU 08 L |
|          | 10       | M 16 x 1,5 | 15,5 | 19  | 19   | 500        | 55 TU 10 L |
|          | 12       | M 18 x 1,5 | 15,5 | 22  | 25   | 400        | 55 TU 12 L |
|          | 15       | M 22 x 1,5 | 17   | 27  | 41   | 400        | 55 TU 15 L |
|          | 18       | M 26 x 1,5 | 18   | 32  | 63   | 400        | 55 TU 18 L |
|          | 22       | M 30 x 2   | 20   | 36  | 83   | 250        | 55 TU 22 L |
|          | 28       | M 36 x 2   | 21   | 41  | 91   | 250        | 55 TU 28 L |
|          | 35       | M 45 x 2   | 24   | 50  | 147  | 250        | 55 TU 35 L |
| 42       | M 52 x 2 | 24         | 60   | 231 | 250  | 55 TU 42 L |            |
| <b>S</b> | 06       | M 14 x 1,5 | 16,5 | 17  | 16   | 800        | 55 TU 06 S |
|          | 08       | M 16 x 1,5 | 16,5 | 19  | 19   | 800        | 55 TU 08 S |
|          | 10       | M 18 x 1,5 | 17,5 | 22  | 29   | 800        | 55 TU 10 S |
|          | 12       | M 20 x 1,5 | 17,5 | 24  | 34   | 630        | 55 TU 12 S |
|          | 14       | M 22 x 1,5 | 20,5 | 27  | 50   | 630        | 55 TU 14 S |
|          | 16       | M 24 x 1,5 | 20,5 | 30  | 64   | 630        | 55 TU 16 S |
|          | 20       | M 30 x 2   | 24   | 36  | 103  | 420        | 55 TU 20 S |
|          | 25       | M 36 x 2   | 27   | 46  | 212  | 420        | 55 TU 25 S |
|          | 30       | M 42 x 2   | 29   | 50  | 233  | 420        | 55 TU 30 S |
| 38       | M 52 x 2 | 32,5       | 60   | 341 | 420  | 55 TU 38 S |            |

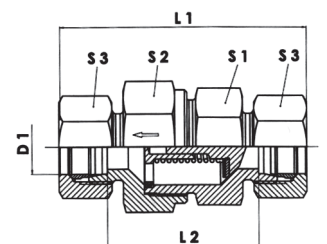
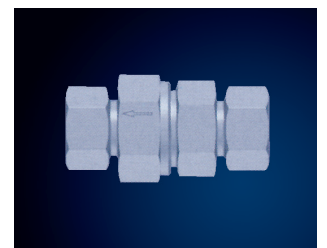


Peso = gr./u.  
PN = bar

### Válvula anti-retorno tubo-tubo

**VART**

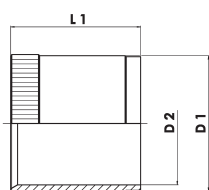
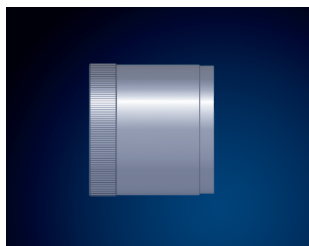
| Serie    | D1    | L1    | L2   | S1 | S2 | S3   | Peso | PN           | Código       |
|----------|-------|-------|------|----|----|------|------|--------------|--------------|
| <b>L</b> | 06    | 59    | 29   | 17 | 17 | 14   | 71   | 500          | 55 VART 06 L |
|          | 08    | 60    | 30   | 19 | 19 | 17   | 103  | 500          | 55 VART 08 L |
|          | 10    | 71    | 40,5 | 24 | 24 | 19   | 152  | 500          | 55 VART 10 L |
|          | 12    | 73,5  | 43,5 | 30 | 30 | 22   | 230  | 400          | 55 VART 12 L |
|          | 15    | 77,5  | 47,5 | 30 | 30 | 27   | 278  | 400          | 55 VART 15 L |
|          | 18    | 84,5  | 51,5 | 36 | 36 | 32   | 412  | 400          | 55 VART 18 L |
|          | 22    | 95    | 61,5 | 46 | 46 | 36   | 598  | 250          | 55 VART 22 L |
|          | 28    | 102,5 | 69   | 50 | 50 | 41   | 970  | 250          | 55 VART 28 L |
|          | 35    | 118   | 74,5 | 60 | 60 | 50   | 1620 | 250          | 55 VART 35 L |
| 42       | 120,5 | 74    | 60   | 60 | 60 | 2880 | 250  | 55 VART 42 L |              |
| <b>S</b> | 06    | 64,5  | 34,5 | 17 | 17 | 17   | 117  | 800          | 55 VART 06 S |
|          | 08    | 64,5  | 34,5 | 19 | 19 | 19   | 132  | 800          | 55 VART 08 S |
|          | 10    | 73,5  | 40,5 | 24 | 24 | 22   | 174  | 800          | 55 VART 10 S |
|          | 12    | 75,5  | 42,5 | 30 | 30 | 24   | 211  | 630          | 55 VART 12 S |
|          | 14    | 83,5  | 47,5 | 30 | 30 | 27   | 307  | 630          | 55 VART 14 S |
|          | 16    | 87,5  | 50,5 | 30 | 30 | 30   | 415  | 630          | 55 VART 16 S |
|          | 20    | 97    | 54,5 | 36 | 36 | 36   | 738  | 420          | 55 VART 20 S |
|          | 25    | 106,5 | 58   | 46 | 46 | 46   | 962  | 420          | 55 VART 25 S |
|          | 30    | 113   | 69,5 | 50 | 50 | 50   | 1630 | 420          | 55 VART 30 S |
| 38       | 137,5 | 75    | 60   | 60 | 60 | 2380 | 420  | 55 VART 38 S |              |



Peso = gr./u.  
PN = bar

CRF

Casquillo refuerzo para tubos metálicos

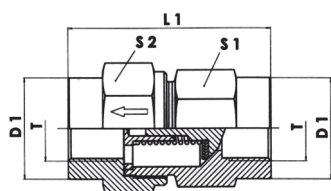


| Ø INT | D1 | D2   | L1   | Peso | Código    |
|-------|----|------|------|------|-----------|
| 4     | 4  | 2,5  | 15,5 | 1    | 55 CRF 04 |
| 5     | 5  | 3,5  | 15,5 | 1    | 55 CRF 05 |
| 6     | 6  | 4,5  | 15,5 | 1    | 55 CRF 06 |
| 7     | 7  | 5,5  | 17   | 2    | 55 CRF 07 |
| 8     | 8  | 6,5  | 17   | 2    | 55 CRF 08 |
| 9     | 9  | 7,5  | 17   | 2    | 55 CRF 09 |
| 10    | 10 | 8,5  | 18   | 2    | 55 CRF 10 |
| 11    | 11 | 9,5  | 18   | 3    | 55 CRF 11 |
| 12    | 12 | 10   | 18   | 4    | 55 CRF 12 |
| 13    | 13 | 11,5 | 18   | 4    | 55 CRF 13 |
| 14    | 14 | 12   | 18   | 5    | 55 CRF 14 |
| 15    | 15 | 13   | 22   | 5    | 55 CRF 15 |
| 16    | 16 | 14   | 22   | 6    | 55 CRF 16 |
| 17    | 17 | 15   | 22   | 7    | 55 CRF 17 |
| 18    | 18 | 16   | 20   | 8    | 55 CRF 18 |
| 19    | 19 | 17   | 18   | 8    | 55 CRF 19 |
| 20    | 20 | 18   | 18   | 8    | 55 CRF 20 |
| 22    | 22 | 20   | 24   | 10   | 55 CRF 22 |
| 24    | 24 | 22   | 18   | 11   | 55 CRF 24 |
| 25    | 25 | 23   | 18   | 11   | 55 CRF 25 |
| 31    | 31 | 28,5 | 18   | 18   | 55 CRF 31 |
| 33    | 33 | 30   | 23   | 21   | 55 CRF 33 |
| 38    | 38 | 35,5 | 24   | 25   | 55 CRF 38 |

Peso = gr./u.  
PN = bar

VARHR

Válvula anti-retorno unión hembra



| Serie | T       | D1 | L1   | S1 | S2 | Peso | PN  | Código       |
|-------|---------|----|------|----|----|------|-----|--------------|
| L     | G 1/8   | 17 | 42,5 | 17 | 17 | 60   | 500 | 55 VARHR 006 |
|       | G 1/4   | 19 | 51   | 19 | 19 | 81   | 500 | 55 VARHR 008 |
|       | G 3/8   | 24 | 60   | 24 | 24 | 181  | 400 | 55 VARHR 010 |
|       | G 1/2   | 30 | 72   | 30 | 30 | 266  | 400 | 55 VARHR 015 |
|       | G 3/4   | 36 | 84   | 36 | 36 | 450  | 250 | 55 VARHR 020 |
|       | G 1     | 46 | 95   | 46 | 46 | 817  | 250 | 55 VARHR 025 |
|       | G 1 1/4 | 50 | 110  | 50 | 50 | 920  | 250 | 55 VARHR 032 |
|       | G 1 1/2 | 60 | 114  | 60 | 60 | 1436 | 250 | 55 VARHR 040 |

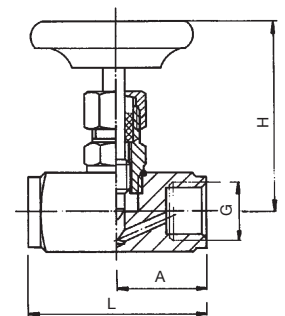
Peso = gr./u.  
PN = bar

ACERO INOXIDABLE AISI-316

Válvula - Rosca BSPP cilíndrica DIN/ISO 228-1

VAN

| Ø INT | T     | A  | L   | H   | PN  | Código     |
|-------|-------|----|-----|-----|-----|------------|
| 3/8   | G 3/8 | 40 | 80  | 113 | 400 | 55 VAN 010 |
| 1/2   | G 1/2 | 40 | 80  | 113 | 400 | 55 VAN 015 |
| 1     | G 1   | 50 | 100 | 160 | 400 | 55 VAN 025 |
|       |       |    |     |     |     |            |
|       |       |    |     |     |     |            |
|       |       |    |     |     |     |            |



PREMONTAJE

| Serie | Código   |
|-------|----------|
| L     | 55HPM06L |
|       | 55HPM08L |
|       | 55HPM10L |
|       | 55HPM12L |
|       | 55HPM15L |
|       | 55HPM18L |
|       | 55HPM22L |
|       | 55HPM28L |
|       | 55HPM35L |
|       | 55HPM42L |

| Serie | Código   |
|-------|----------|
| S     | 55HPM06S |
|       | 55HPM08S |
|       | 55HPM10S |
|       | 55HPM12S |
|       | 55HPM14S |
|       | 55HPM16S |
|       | 55HPM20S |
|       | 55HPM25S |
|       | 55HPM30S |
|       | 55HPM38S |



Grasa antigripaje de alto rendimiento

INOXPASTE

| Código | Peso     | DESCRIPCIÓN:   |
|--------|----------|--|
| 55GAG  | 250 grs. | Inoxpaste es un lubricante de última generación, para mecanismos sometidos a movimientos lentos, altas cargas y esfuerzos de choque. Lubricación de por vida, con una excelente protección contra fenómenos de tribocorrosión (fretting corrosión). Temperatura de aplicación desde -40°C a 150°C. |

APLICACIONES:

**Uniones roscadas**

Pasta de montaje multifuncional.

**Montaje de accesorios de compresión**

Eventualmente evita problemas de corrosión por contacto

Lubricación de ejes y pernos.

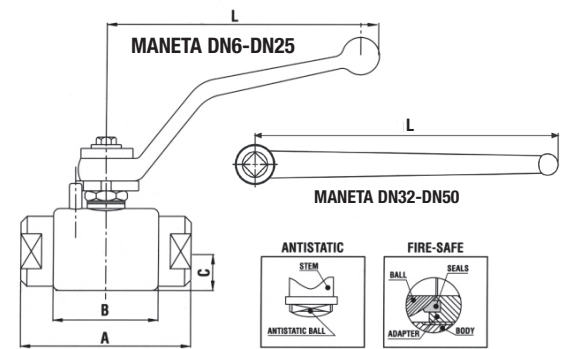
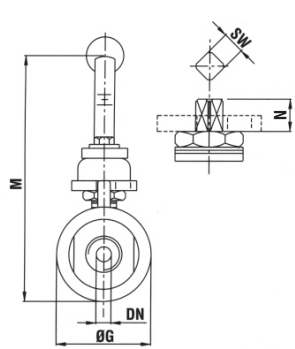


**VBAP**

Válvula bola monoblock - PN 350-500 - Rosca BSPP cilíndrica DIN/ISO 228-1

| Código      | TIPO      | PN  | DN | A   | B   | C    | ØG  | L   | M     | N    | SW | Kg   |
|-------------|-----------|-----|----|-----|-----|------|-----|-----|-------|------|----|------|
| 55 VBAP 010 | GM 3/8    | 500 | 10 | 72  | 44  | 23,5 | 47  | 110 | 109   | 10,5 | 9  | 0,84 |
| 55 VBAP 015 | GM 1/2    | 500 | 13 | 81  | 48  | 26,5 | 53  | 110 | 115   | 10,5 | 9  | 1,15 |
| 55 VBAP 020 | GM 3/4    | 400 | 20 | 98  | 62  | 31,5 | 63  | 200 | 125   | 14   | 14 | 2,10 |
| 55 VBAP 025 | GM 1"     | 350 | 25 | 106 | 66  | 36,5 | 73  | 200 | 133   | 14   | 14 | 2,87 |
| 55 VBAP 032 | GM 1" 1/4 | 350 | 32 | 127 | 83  | 42   | 84  | 300 | 120,5 | 14   | 17 | 4,55 |
| 55 VBAP 040 | GM 1" 1/2 | 350 | 40 | 135 | 89  | 49,5 | 99  | 300 | 126   | 14   | 17 | 6,48 |
| 55 VBAP 050 | GM 2"     | 350 | 50 | 160 | 101 | 56   | 104 | 300 | 140,5 | 14   | 17 | 7,96 |

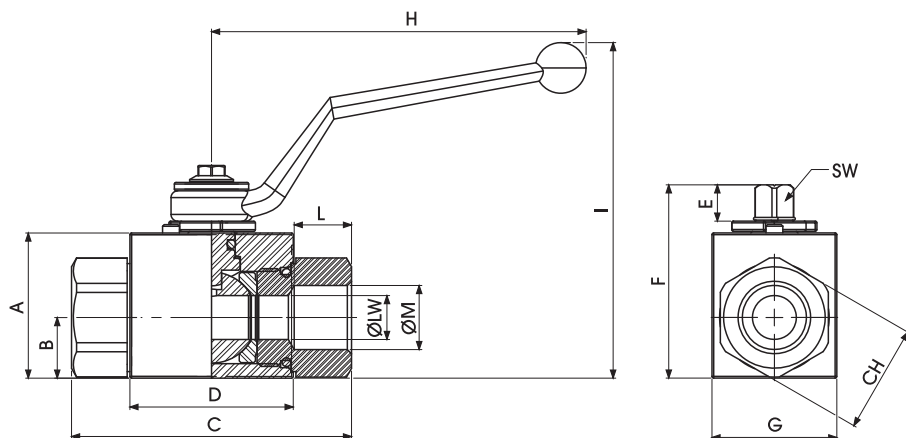
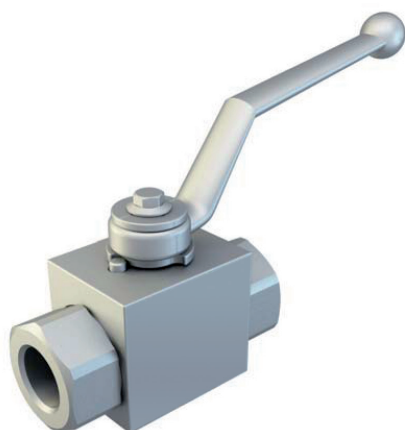
| Nº | Descripción | Material   |
|----|-------------|------------|
| 1  | Cuerpo      | AISI-316 L |
| 2  | Racor       | AISI-316 L |
| 3  | Bola        | AISI-316 L |
| 4  | Eje         | AISI-316 L |
| 5  | Tornillo    | AISI-316 L |
| 6  | Arandela    | AISI-316 L |
| 7  | Tuerca      | AISI-316 L |
| 8  | Maneta      | AISI-304 L |
| 9  | Arandela    | AISI-316 L |
| 10 | Junta eje   | POM        |
| 11 | Junta racor | POM        |



**VBAPC**

Válvula bola cuadrada monoblock - PN 315-500

| Código       | TIPO      | PN  | DN | A  | B    | C   | D  | E  | F    | G  | H   | I     | L    | ØM    | CH | SW | ØLW | Kg    |
|--------------|-----------|-----|----|----|------|-----|----|----|------|----|-----|-------|------|-------|----|----|-----|-------|
| 55 VBAPC 008 | GE2 G 1/4 | 500 | 6  | 32 | 13   | 69  | 37 | 8  | 44,5 | 28 | 107 | 91,5  | 16   | G 1/4 | 24 | 9  | 6   | 0,497 |
| 55 VBAPC 010 | GE2 G 3/8 | 500 | 10 | 40 | 17   | 72  | 42 | 8  | 52,5 | 32 | 107 | 96,5  | 15   | G 3/8 | 30 | 9  | 10  | 0,652 |
| 55 VBAPC 015 | GE2 G 1/2 | 500 | 13 | 40 | 17   | 83  | 48 | 8  | 52,5 | 35 | 107 | 99,5  | 17,5 | G 1/2 | 32 | 9  | 13  | 0,77  |
| 55 VBAPC 020 | GE2 G 3/4 | 400 | 19 | 57 | 24   | 95  | 60 | 12 | 75   | 48 | 170 | 106,5 | 17,5 | G 3/4 | 41 | 14 | 19  | 1,46  |
| 55 VBAPC 025 | GE2 G 1   | 350 | 25 | 64 | 28,5 | 113 | 65 | 12 | 82   | 57 | 170 | 116,5 | 24   | G 1   | 50 | 14 | 25  | 2,23  |



ACERO INOXIDABLE AISI-316

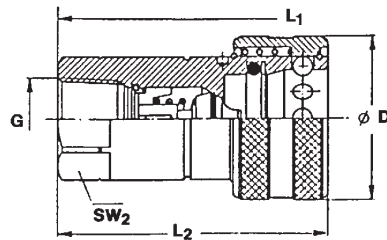
Enchufe rápido hembra y macho

ER

Hembra

Código

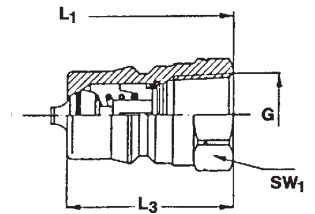
- 55 ERH 006
- 55 ERH 008
- 55 ERH 010
- 55 ERH 015
- 55 ERH 020
- 55 ERH 025



Macho

Código

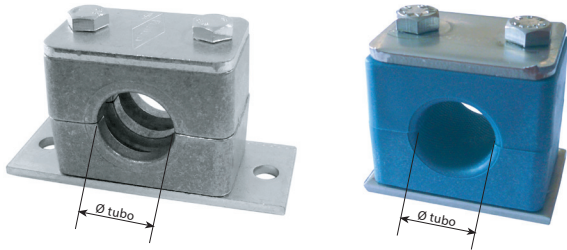
- 55 ERM 006
- 55 ERM 008
- 55 ERM 010
- 55 ERM 015
- 55 ERM 020
- 55 ERM 025



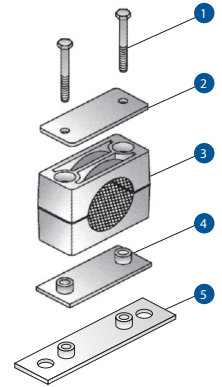
| ø G  | L <sub>2</sub> mm | L <sub>3</sub> mm | D mm | L <sub>1</sub> mm | SW1 mm | SW2 mm | PN  | Peso hembra | Peso macho |
|------|-------------------|-------------------|------|-------------------|--------|--------|-----|-------------|------------|
| 1/8" | 78                | 19                | 23   | 64,1              | 17     | 17     | 300 | 76          | 19         |
| 1/4" | 60                | 38                | 28   | 76,5              | 19     | 19     | 250 | 130         | 40         |
| 3/8" | 65,2              | 40,5              | 35   | 81,5              | 22     | 22     | 250 | 197         | 60         |
| 1/2" | 73,7              | 46                | 44   | 92,5              | 27     | 27     | 250 | 346         | 107        |
| 3/4" | 91,5              | 57                | 51,8 | 114,5             | 34     | 34     | 250 | 560         | 210        |
| 1"   | 103,8             | 63,5              | 60   | 128               | 41     | 41     |     | 908         | 342        |



**Abrazaderas para tubo (serie ligera) DIN 3015**

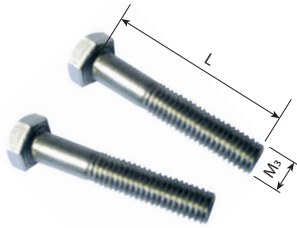


- Abrazadera de polipropileno o aluminio
- Placas en acero inoxidable o acero galvanizado
- Temperatura máxima de trabajo 90° C



1

Tornillos DIN 933

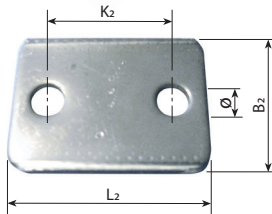


| Ø tubo | L  | M |  |  |  |
|--------|----|---|--|--|--|
| 6      | 20 | 6 |  |  |  |
| 8      | 20 | 6 |  |  |  |
| 10     | 20 | 6 |  |  |  |
| 12     | 20 | 6 |  |  |  |
| 14     | 25 | 6 |  |  |  |
| 15     | 25 | 6 |  |  |  |
| 16     | 25 | 6 |  |  |  |
| 18     | 25 | 6 |  |  |  |

| Ø tubo | L  | M |  |  |  |
|--------|----|---|--|--|--|
| 20     | 30 | 6 |  |  |  |
| 22     | 30 | 6 |  |  |  |
| 25     | 30 | 6 |  |  |  |
| 28     | 40 | 6 |  |  |  |
| 30     | 40 | 6 |  |  |  |
| 35     | 50 | 6 |  |  |  |
| 38     | 50 | 6 |  |  |  |
| 42     | 50 | 6 |  |  |  |

2

Placa superior

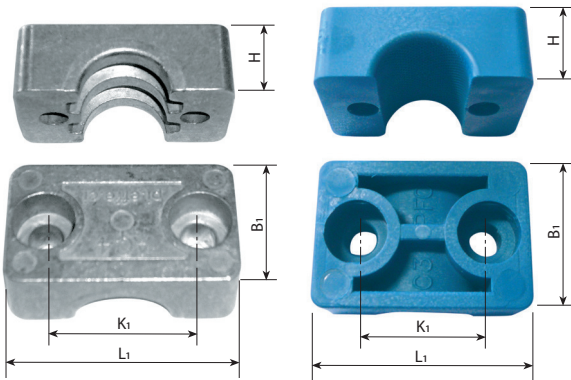


| Ø tubo | L  | B  | K  | D | Espesor |
|--------|----|----|----|---|---------|
| 6      | 35 | 30 | 20 | 7 | 3       |
| 8      | 35 | 30 | 20 | 7 | 3       |
| 10     | 35 | 30 | 20 | 7 | 3       |
| 12     | 35 | 30 | 20 | 7 | 3       |
| 14     | 41 | 30 | 26 | 7 | 3       |
| 15     | 41 | 30 | 26 | 7 | 3       |
| 16     | 41 | 30 | 26 | 7 | 3       |
| 18     | 41 | 30 | 26 | 7 | 3       |

| Ø tubo | L  | B  | K  | D | Espesor |
|--------|----|----|----|---|---------|
| 20     | 48 | 30 | 33 | 7 | 3       |
| 22     | 48 | 30 | 33 | 7 | 3       |
| 25     | 48 | 30 | 33 | 7 | 3       |
| 28     | 56 | 30 | 40 | 7 | 3       |
| 30     | 56 | 30 | 40 | 7 | 3       |
| 35     | 70 | 30 | 52 | 7 | 3       |
| 38     | 70 | 30 | 52 | 7 | 3       |
| 42     | 70 | 30 | 52 | 7 | 3       |

3

Abrazadera

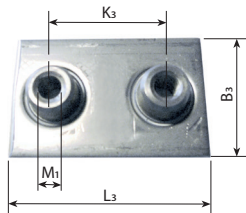


| Ø tubo | L  | B  | K  | H    |  |
|--------|----|----|----|------|--|
| 6      | 37 | 30 | 20 | 14   |  |
| 8      | 37 | 30 | 20 | 14   |  |
| 10     | 37 | 30 | 20 | 14   |  |
| 12     | 37 | 30 | 20 | 14   |  |
| 14     | 43 | 30 | 26 | 16,5 |  |
| 15     | 43 | 30 | 26 | 16,5 |  |
| 16     | 43 | 30 | 26 | 16,5 |  |
| 18     | 43 | 30 | 26 | 16,5 |  |

| Ø tubo | L  | B  | K  | H    |  |
|--------|----|----|----|------|--|
| 20     | 50 | 30 | 33 | 18   |  |
| 22     | 50 | 30 | 33 | 18   |  |
| 25     | 50 | 30 | 33 | 18   |  |
| 28     | 57 | 30 | 40 | 22   |  |
| 30     | 57 | 30 | 40 | 22   |  |
| 35     | 70 | 30 | 52 | 28,5 |  |
| 38     | 70 | 30 | 52 | 28,5 |  |
| 42     | 70 | 30 | 52 | 28,5 |  |

4

Placa inferior (opción 1)

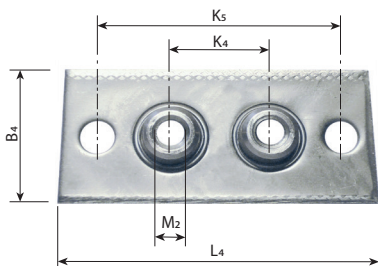


| Ø tubo | L  | B  | K  | M | Espesor |
|--------|----|----|----|---|---------|
| 6      | 41 | 30 | 20 | 6 | 3       |
| 8      | 41 | 30 | 20 | 6 | 3       |
| 10     | 41 | 30 | 20 | 6 | 3       |
| 12     | 41 | 30 | 20 | 6 | 3       |
| 14     | 47 | 30 | 26 | 6 | 3       |
| 15     | 47 | 30 | 26 | 6 | 3       |
| 16     | 47 | 30 | 26 | 6 | 3       |
| 18     | 47 | 30 | 26 | 6 | 3       |

| Ø tubo | L  | B  | K  | M | Espesor |
|--------|----|----|----|---|---------|
| 20     | 54 | 30 | 33 | 6 | 3       |
| 22     | 54 | 30 | 33 | 6 | 3       |
| 25     | 54 | 30 | 33 | 6 | 3       |
| 28     | 61 | 30 | 40 | 6 | 3       |
| 30     | 61 | 30 | 40 | 6 | 3       |
| 35     | 73 | 30 | 52 | 6 | 3       |
| 38     | 73 | 30 | 52 | 6 | 3       |
| 42     | 73 | 30 | 52 | 6 | 3       |

5

Placa inferior (opción 2)



| Ø tubo | L  | B  | K  | M | L2 |
|--------|----|----|----|---|----|
| 6      | 64 | 30 | 20 | 6 | 50 |
| 8      | 64 | 30 | 20 | 6 | 50 |
| 10     | 64 | 30 | 20 | 6 | 50 |
| 12     | 64 | 30 | 20 | 6 | 50 |
| 14     | 70 | 30 | 26 | 6 | 56 |
| 15     | 70 | 30 | 26 | 6 | 56 |
| 16     | 70 | 30 | 26 | 6 | 56 |
| 18     | 70 | 30 | 26 | 6 | 56 |

| Ø tubo | L   | B  | K  | M | L2 |
|--------|-----|----|----|---|----|
| 20     | 78  | 30 | 33 | 6 | 64 |
| 22     | 78  | 30 | 33 | 6 | 64 |
| 25     | 78  | 30 | 33 | 6 | 64 |
| 28     | 87  | 30 | 40 | 6 | 73 |
| 30     | 87  | 30 | 40 | 6 | 73 |
| 35     | 100 | 30 | 52 | 6 | 86 |
| 38     | 100 | 30 | 52 | 6 | 86 |
| 42     | 100 | 30 | 52 | 6 | 86 |

Espesor 3 mm

Espesor 3 mm

## CONDICIONES GENERALES DE VENTA

*Las condiciones generales de venta son aplicables a todas las operaciones comerciales entre Inoxpres, s.a. y cualquier comprador.*

*La recepción de materiales por parte del comprador, supone la aceptación de estas Condiciones de Venta.*

*Los datos, especificaciones técnicas y cualquier información de nuestros catálogos, son a título orientativo, reservándose Inoxpres, s.a. el derecho de modificaciones sin previo aviso.*

### **PEDIDOS**

El pedido mínimo de compra se establece en 100€ y será efectuado al contado.

El precio de facturación del material entregado será el precio de la tarifa vigente en la fecha de entrega del mismo.

Los precios indicados siempre son sin IVA

### **EXPEDICIONES**

Los pedidos que no contengan tubo y sean inferiores a 900€, el transporte será por cuenta del comprador.

La reclamación relacionada con el transporte, (embalajes rotos o deteriorados, falta de bultos o mercancía deteriorada), deberá ser anotada en el albarán del transportista. En caso contrario no se aceptará la reclamación.

### **ENTREGAS**

a/ Se considera como fecha de entrega la fecha de recogida del transportista en nuestros almacenes.

b/ La demora en la entrega no constituye motivo de anulación ni responsabilidad de Inoxpres, s.a.

c/ La penalización por retraso en la entrega deberá ser pactada y convenida por escrito entre ambas partes en el momento del pedido.

d/ Inoxpres, s.a. se reserva el derecho de hacer entregas parciales, según disponibilidades. No obstante éstas serán consideradas como efectivas y podrán ser facturadas al comprador.

e/ Inoxpres, s.a. se reserva expresamente la propiedad de la mercancía entregada hasta el completo pago del precio convenido, siendo el comprador responsable de su custodia.

### **CONDICIONES DE PAGO**

La primera operación se hará efectiva al contado contra la entrega de la mercancía o en la fecha del pedido cuando la mercancía se envíe por agencia de transporte.

Las operaciones posteriores serán a 30 días desde la fecha de la factura o de la entrega de la mercancía, salvo en aquellos casos en los que Inoxpres, s.a. y el comprador pacten un acuerdo especial.

El lugar de pago será en todos los casos el domicilio social de Inoxpres, s.a.

El retraso en el pago de las facturas devengará un interés equivalente al legal del dinero más 5 puntos por demora, sin perjuicio de los que se produzcan en caso de reclamación.

No constituye en ningún caso justificación de la demora en el pago de la factura, cualquier reclamación que sobre la calidad de la mercancía pueda formular el comprador.

### **DEVOLUCIONES**

Inoxpres, s.a. no admite devoluciones de la mercancía entregada, salvo autorización expresa de la Dirección Comercial.

En este caso, la mercancía deberá ser entregada y depositada en el almacén de Inoxpres, s.a. libre de portes y gastos, acompañada de una copia de la factura de compra que corresponda a la referida entrega. Del importe de la mercancía objeto de devolución, Inoxpres, s.a. deducirá un 20% en concepto de gastos de recepción, administrativos, inspección, etc. El importe del abono se compensará en próximas facturas, en ningún caso se devuelve el dinero.

La mercancía objeto de devolución deberá hallarse en el mismo estado y embalaje que presentaba en el momento de su entrega por Inoxpres, s.a.

Devoluciones sujetas a la normativa vigente (art. 13 R.D. 1496/2003 del 28.2)

### **RESPONSABILIDAD POR PRODUCTO DEFECTUOSO**

Cualquier reclamación derivada de un posible defecto de fabricación deberá ser dirigida directamente al fabricante. En caso de duda, el comprador, o el perjudicado en su caso, se dirigirá a Inoxpres, s.a. solicitando la identidad del fabricante, la cual le será facilitada como máximo en el plazo de tres meses, conforme a lo dispuesto en la ley 01/2007 de 16 de noviembre.

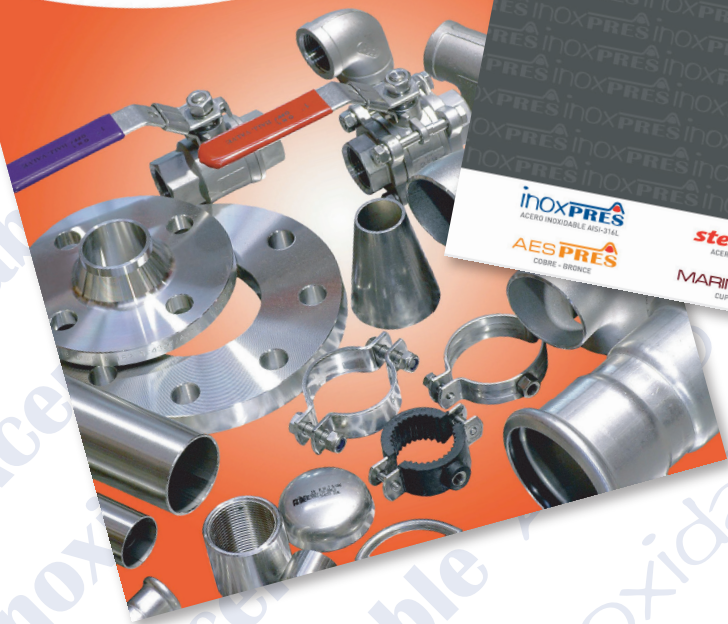
### **JURISDICCIÓN**

Para cualquier reclamación derivada del incumplimiento de las condiciones de venta, se someten las partes de forma expresa a la jurisdicción y competencia de los Tribunales y Juzgados correspondientes al domicilio social de Inoxpres, s.a., renunciando el comprador a cualquier otra distinta.

INOXPRES, S.A.

**inoxPRES**  
SOLUCIONES PARA INSTALACIONES

Accesorios en acero  
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ACERO INOXIDABLE AISI-316L

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**inoxPRES STEAM**  
ACERO INOXIDABLE AISI-316L

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