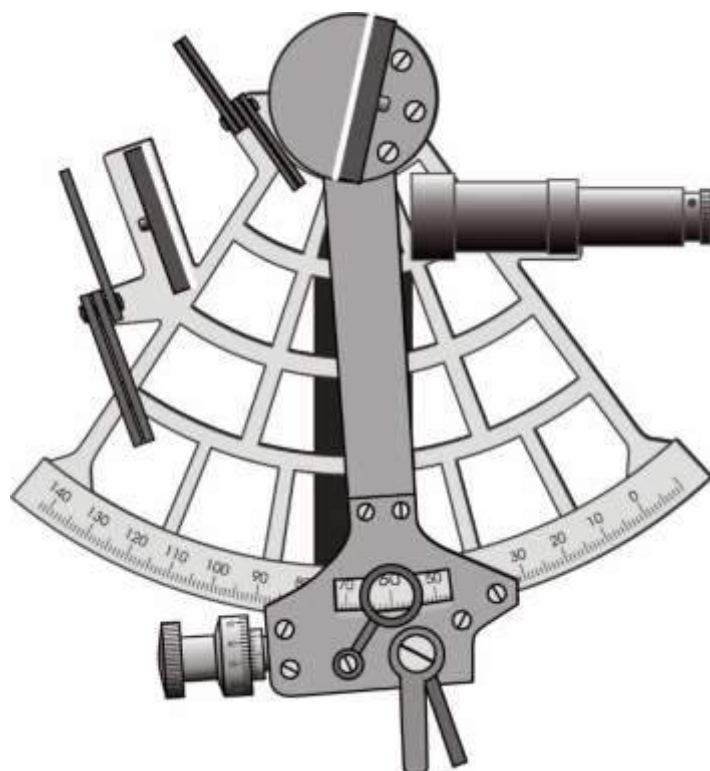


# CATÁLOGO



# SUMINISTROS BENI

**VALVULERÍA Y FERRETERIA NAVAL**

Almacén- Oficinas:



Animas 3-A BAJO (BOUZAS) • 36208 VIGO (ESPAÑA)



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Suministros Beni





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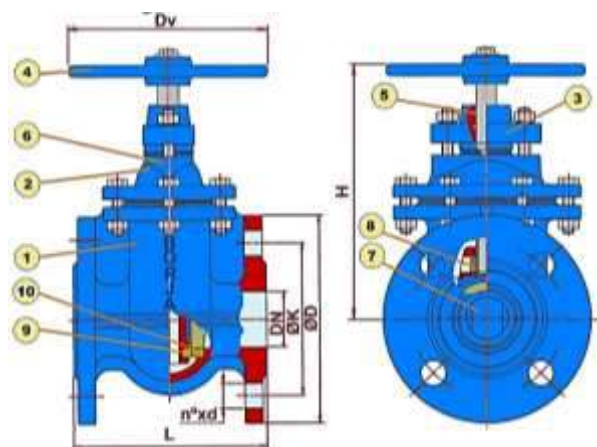
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**CARACTERÍSTICAS:**

- Según EN-1171.
- Longitud de montaje según EN 558-1 Serie 14. DIN 3202 / F4.
- Dimensiones bridas según UNE-EN 1092-2 PN16.
- Orificios según UNE-EN 1092-2 PN10 / PN16.

**APLICACIONES:**

- Para agua, agua caliente, gases naturales, aceite y grasa a temperatura máxima de 80 °C.
- Para trabajar a temperaturas superiores a 80 °C el material de la empaquetadura debe ser adaptado.



| PART Nº | COMPONENTES               | Material         | DIN        |
|---------|---------------------------|------------------|------------|
| 1       | Cuerpo/Body               | Hierro Fundido   | EN-GJL-250 |
| 2       | Tapa/Bonnet               | Hierro Fundido   | EN-GJL-250 |
| 3       | Cúpula-Tapa /Gland        | Hierro Fundido   | EN-GJL-250 |
| 4       | Volante/Handwheel         | Hierro Fundido   | EN-GJL-250 |
| 5       | Tóricas/O-Rings           | NBR              | -          |
| 6       | Husillo/ Stem             | Acero Inoxidable | AISI 420   |
| 7       | Cuña / Wedge              | Hierro Fundido   | EN-GJL-250 |
| 8       | Tuerca husillo / Nut Stem | Latón            | EN-12164   |
| 9       | Aros-Cuña/ Wedge Seats    | Latón            | EN-12164   |
| 10      | Aros Cuerpo / Body Seats  | Latón            | EN-12164   |

| Pasos nominales<br>Sizes          | Resistencia / tirantez cubierta<br>Shell strength tightness | Tirantez de los asientos<br>Seat tightness | Presión de trabajo<br>Working pressure |
|-----------------------------------|-------------------------------------------------------------|--------------------------------------------|----------------------------------------|
| De Ø40 a Ø300<br>From Ø40 to Ø300 | 24 Kg/cm <sup>2</sup>                                       | 18 Kg/cm <sup>2</sup>                      | 16 Kg/cm <sup>2</sup>                  |

| REF      | DN<br>Size | L   | ØD PN16 | ØK<br>PN10/PN16 | Dv  | H   | nºx d<br>PN10/PN16 |
|----------|------------|-----|---------|-----------------|-----|-----|--------------------|
| V3002040 | 40         | 140 | 150     | 110             | 130 | 190 | 4 x 19             |
| V3002050 | 50         | 150 | 165     | 125             | 130 | 200 | 4 x 19             |
| V3002065 | 65         | 170 | 185     | 145             | 130 | 230 | 4 x 19             |
| V3006080 | 80 (PN16)  | 180 | 200     | 160             | 145 | 260 | 8 x 19             |
| V3002080 | 80 (PN10)  | 180 | 200     | 160             | 145 | 260 | 8 x 19             |
| V3002100 | 100        | 190 | 220     | 180             | 185 | 300 | 8 x 19             |
| V3002125 | 125        | 200 | 250     | 210             | 185 | 360 | 8 x 19             |
| V3002150 | 150        | 210 | 285     | 240             | 195 | 410 | 8 x 23             |
| V3006200 | 200 (PN16) | 230 | 340     | 295             | 225 | 500 | 8 x 23 / 12 x 23   |
| V3002108 | 200 (PN10) | 230 | 340     | 295             | 225 | 500 | 8 x 23 / 12 x 23   |
| V3002110 | 250        | 250 | 405     | 350/355         | 320 | 580 | 12 x 23 / 12 x 28  |

VÁLVULA COMPUERTA ACERO/BRONCE  
CAST STEEL GATE VALVE BRONZE

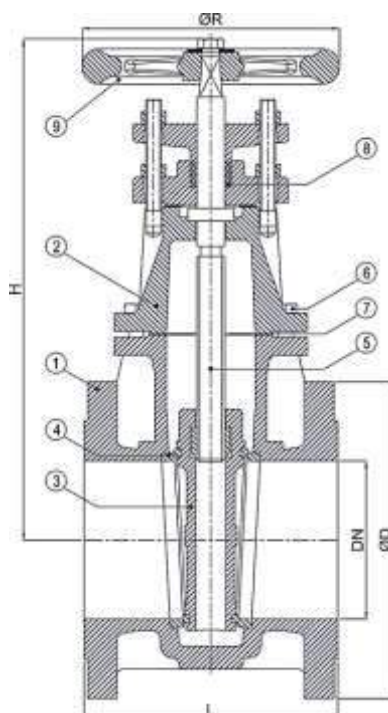


| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |                                                                                                                                                                                                                 |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DISEÑO                                      | DIN EN 1984 (DIN 3352 T2)                                                                                                                                                                                       |
| -                                           | EN 558 SERIE 14 (DIN 3202 F4)                                                                                                                                                                                   |
| DIMENSIÓN DE LA BRIDA                       | DIN SEGÚN EN 1092-1/B (DIN 2501)                                                                                                                                                                                |
| CONEXIÓN DE BRIDA                           | PN10/16                                                                                                                                                                                                         |
| OPCIONES                                    | TAPÓN DE DRENAJE, VÁSTAGO DE DOBLE ROSCA, RUEDA DE CADENA, CAJA DE CAMBIOS, ACTUADOR ELÉCTRICO, BRIDA SUPERIOR PARA EL MONTAJE DEL ACTUADOR PERFORACIÓN DE BRIDA ESPECIAL SEGÚN ANSI O JIS, BRIDA DE CARA PLANA |

- Válvulas de compuerta de acero fundido con asientos de bronce, bridas DIN. Vástago interior roscado, no ascendente y volante.
- Aplicación: Agua fría y caliente, agua dulce, agua de mar, aceite, lubricante.

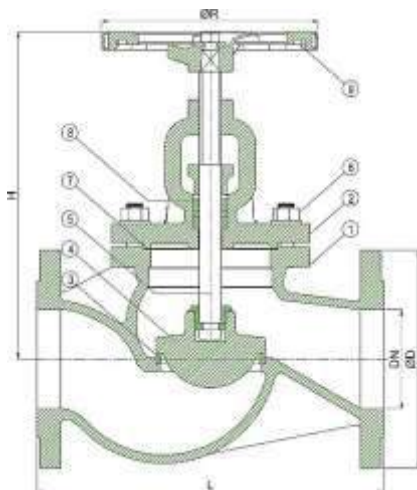
| RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE AND TEMPERATURE RANGES |                          |                          |                                    |          |
|-------------------------------------------------------------------|--------------------------|--------------------------|------------------------------------|----------|
|                                                                   |                          | PRESIÓN DE TRABAJO [BAR] | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
| PERFORAR                                                          | CLASIFICACIÓN DE PRESIÓN | 120°C                    | CUBIERTA                           | CLAUSURA |
| DN 40 - DN 200                                                    | PN16                     | 16                       | 24                                 | 17.6     |
| DN 250 - DN 300                                                   | PN10                     | 10                       | 15                                 | 11       |
| DN 350 - DN 500                                                   | PN6                      | 6                        | 9                                  | 6.6      |
| DN 600 - DN 700                                                   | PN4                      | 4                        | 6                                  | 4.4      |

| PART NO. | COMPONENTES           | MATERIAL         |                  |                  |
|----------|-----------------------|------------------|------------------|------------------|
| 1        | Cuerpo                | GP240GH          | 10619            | GSC25            |
| 2        | Casquete              | GP240GH          | 10619            | GSC25            |
| 3        | Cuña (≤ 100)          | CuSn5Zn5Pb5-C    | CC491K           | RG5              |
| 3        | Cuña (> 100)          | GP240GH          | 10619            | GSC25            |
| 4        | Asiento               | CuSn5Zn5Pb5-C    | CC491K           | RG5              |
| 5        | Vástago               | CuZn39Pb3        | CW614N           | Ms58             |
| 6        | Pernos, tuercas       | Acero            | Acero            | Acero            |
| 7        | Junta del capó        | Libre de amianto | Libre de amianto | Libre de amianto |
| 8        | Embalaje de glándulas | PTFE             | PTFE             | PTFE             |
| 9        | Volante               | EN-GLJ250        | EN-JL 1040       | GG25             |



| REF      | DN [MM] | CONEXIÓN DE BRIDA | ØD [MM] | ØL [MM] | H [MM] | ØR [MM] | PESO [KG] |
|----------|---------|-------------------|---------|---------|--------|---------|-----------|
| V300D040 | 40      | PN16              | 150     | 140     | 235    | 140     | 12        |
| V300DI50 | 50      | PN16              | 165     | 150     | 235    | 140     | 14        |
| V300DI65 | 65      | PN16              | 185     | 170     | 255    | 160     | 19        |
| V300D680 | 80      | PN16              | 200     | 180     | 280    | 160     | 22        |
| V300D100 | 100     | PN16              | 220     | 190     | 305    | 200     | 30        |
| V300DI05 | 125     | PN16              | 250     | 200     | 390    | 200     | 42        |
| V300DI06 | 150     | PN16              | 285     | 210     | 435    | 200     | 53        |
| V300D175 | 175     | PN16              | 315     | 220     | 490    | 200     | 67        |
| V300DI68 | 200     | PN16              | 340     | 230     | 530    | 250     | 86        |
| V300DI08 | 200     | PN10              | 340     | 230     | 530    | 250     | 86        |
| V300DI10 | 250     | PN10              | 395     | 250     | 630    | 315     | 140       |
| V300DI12 | 300     | PN10              | 445     | 270     | 740    | 315     | 180       |
| V300DI14 | 350     | PN10              | 505     | 290     | 845    | 400     | 245       |
| V300DI16 | 400     | PN10              | 565     | 310     | 890    | 400     | 325       |
| V300DI18 | 450     | PN10              | 615     | 330     | 985    | 400     | 385       |
| V300DI20 | 500     | PN10              | 670     | 350     | 1120   | 500     | 535       |
| V300DI24 | 600     | PN10              | 780     | 390     | 1290   | 500     | 660       |
| V300DI28 | 700     | PN10              | 895     | 430     | 1500   | 630     | 852       |




**INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION**

|                       |                                            |
|-----------------------|--------------------------------------------|
| DISEÑO                | DIN 86251 Type STOP/SDNR (DIN 3356)        |
| -                     | EN 558 Series 1 (DIN 3202 F1)              |
| DIMENSIÓN DE LA BRIDA | DIN Flanges acc. to EN 1092-2/B (DIN 2501) |
| CONEXIÓN DE BRIDA     | PN10/16                                    |
| OPCIONES              | TAPÓN DE DRENAJE                           |

- Válvulas de globo de hierro fundido según DIN, con embellecedor de bronce, presión nominal PN 4/6/10/16, modelo recto, bonete atornillado, tornillo exterior y yugo. Bridas de cara alzada según DIN. TIPO APROBADO.
- Aplicación: A bordo de barcos para agua caliente y fría, aceite

**RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE AND TEMPERATURE RANGES**

|                 |                          | PRESIÓN DE TRABAJO [BAR] |       | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
|-----------------|--------------------------|--------------------------|-------|------------------------------------|----------|
| PERFORAR        | CLASIFICACIÓN DE PRESIÓN | 120°C                    | 180°C | CUBIERTA                           | CLAUSURA |
| DN 15 - DN 200  | PN16                     | 16                       | 10    | 24                                 | 17.6     |
| DN 250          | PN10                     | 10                       | 6     | 15                                 | 11       |
| DN 300 – DN 350 | PN6                      | 6                        | 4     | 9                                  | 6.6      |
| DN 400 – DN 600 | PN4                      | 4                        | 2     | 6                                  | 4.4      |

| PART NO. | COMPONENTES           | MATERIAL         |            |         |
|----------|-----------------------|------------------|------------|---------|
| 1        | Cuerpo                | EN-GJ250         | EN-JL-1040 | GG25    |
| 2        | Casquete              | EN-GJ250         | EN-JL-1040 | GG25    |
| 4        | Cuña (≤65)            | CuSn5Zn5Pb5C     | CC491K     | RG5     |
| 4        | Cuña (>80)            | ENGJS400-18-LT   | EN-JS-1025 | GGG40.3 |
| 3        | Asiento               | CuSn5Zn5Pb5C     | CC491K     | RG5     |
| 5        | Vástago               | CuZn35Ni3Mn2AlPb | CW710R     | Som59   |
| 6        | Pernos, tuercas       | Acero            | Acero      | Acero   |
| 7        | Junta del capó        | Grafito          | Grafito    | Grafito |
| 8        | Embalaje de glándulas | Grafito          | Grafito    | Grafito |
| 9        | Volante               | EN-GJ250         | EN-JL 1040 | GG25    |

| REF       | DN [MM] | CONEXIÓN DE BRIDA | ØD [MM] | ØL [MM] | H [MM] | ØR [MM] | PESO [KG] |
|-----------|---------|-------------------|---------|---------|--------|---------|-----------|
| V278DK15  | 15      | PN16              | 95      | 130     | 165    | 120     | 3.8       |
| -         | 20      | PN16              | 105     | 150     | 165    | 120     | 4         |
| V278DK25  | 25      | PN16              | 115     | 160     | 175    | 140     | 5         |
| V278DK32  | 32      | PN16              | 140     | 180     | 180    | 140     | 7         |
| V278DK40  | 40      | PN16              | 150     | 200     | 220    | 160     | 11        |
| V278DK50  | 50      | PN16              | 165     | 230     | 230    | 160     | 13        |
| V278DK65  | 65      | PN16              | 185     | 290     | 245    | 180     | 18        |
| V278DK80  | 80      | PN16              | 200     | 310     | 295    | 200     | 25        |
| V278DK100 | 100     | PN16              | 220     | 350     | 330    | 225     | 35        |
| -         | 125     | PN16              | 250     | 400     | 365    | 250     | 55        |
| -         | 150     | PN16              | 285     | 480     | 420    | 300     | 75        |
| -         | 175     | PN16              | 315     | 550     | 500    | 400     | 115       |
| -         | 200     | PN16              | 340     | 600     | 510    | 400     | 135       |
| -         | 200     | PN10              | 340     | 600     | 510    | 400     | 135       |
| -         | 250     | PN10              | 395     | 730     | 600    | 520     | 215       |
| -         | 300     | PN10              | 445     | 850     | 670    | 520     | 305       |
| -         | 350     | PN10              | 505     | 980     | 755    | 640     | 405       |
| -         | 400     | PN10              | 565     | 1100    | 835    | 640     | 550       |
| -         | 450     | PN10              | 615     | 1200    | 920    | 640     | 690       |
| -         | 500     | PN10              | 670     | 1250    | 970    | 640     | 835       |

VÁLVULA GLOBO PASO RECTO  
ACERO BRONCE Fº278  
CAST STEEL STRAIGHT DIN GLOBE VALVE PN-  
10/16

VALVULERÍA Y FERRETERÍA NAVAL

SUMINISTROS BENI SL



INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

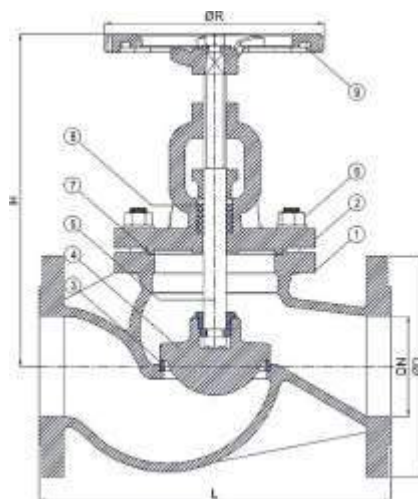
|                       |                                        |
|-----------------------|----------------------------------------|
| DISEÑO                | DIN EN 13709 Tipo STOP/SDNR (DIN 3356) |
| -                     | EN 558 Serie 1 (DIN 3202 F1)           |
| DIMENSIÓN DE LA BRIDA | Bridas según EN 1092-1/B (DIN 2501)    |
| CONEXIÓN DE BRIDA     | PN10/16                                |
| OPCIONES              | TAPÓN DE DRENAJE                       |

- Válvulas de globo de acero fundido según la norma DIN, con embellecedor de bronce, presión nominal PN 4/6/10/16, bonete atornillado, tornillo exterior y yugo. Bridas de cara alzada según DIN. TIPO APROBADO.
- Aplicación: Vapor, agua fría y caliente, aceite y gases y medios agresivos, para altas temperaturas y presiones.

RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE AND TEMPERATURE RANGES

|                 |                          | PRESIÓN DE TRABAJO [BAR] | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
|-----------------|--------------------------|--------------------------|------------------------------------|----------|
| PERFORAR        | CLASIFICACIÓN DE PRESIÓN | 120°C                    | CUBIERTA                           | CLAUSURA |
| DN 15 - DN 200  | PN16                     | 16                       | 24                                 | 17.6     |
| DN 250 - DN 300 | PN10                     | 10                       | 15                                 | 11       |
| DN 350          | PN6                      | 6                        | 9                                  | 6.6      |
| DN 400 - DN 600 | PN4                      | 4                        | 6                                  | 4.4      |

| PART NO. | COMPONENTES           | MATERIAL         |            |         |
|----------|-----------------------|------------------|------------|---------|
| 1        | Cuerpo                | GP240GH          | 10619      | GSC25   |
| 2        | Casquete              | GP240GH          | 10619      | GSC25   |
| 4        | Cuña (≤65)            | CuSn5Zn5Pb5-C    | CC491K     | RG5     |
| 4        | Cuña (≥80)            | GP240GH          | 10619      | GSC25   |
| 3        | Asiento               | CuSn5Zn5Pb5-C    | CC491K     | RG5     |
| 5        | Vástago               | CuZn35Ni3Mn2AlPb | CW710R     | Som59   |
| 6        | Pernos, tuercas       | Acero            | Acero      | Acero   |
| 7        | Junta del capó        | Grafito          | Grafito    | Grafito |
| 8        | Embalaje de glándulas | Grafito          | Grafito    | Grafito |
| 9        | Volante               | EN-GLJ250        | EN-JL 1040 | GG25    |



| REF      | DN [MM] | CONEXIÓN DE BRIDA | ØD [MM] | ØL [MM] | H [MM] | ØR [MM] | PESO [KG] |
|----------|---------|-------------------|---------|---------|--------|---------|-----------|
| -        | 15      | PN16              | 95      | 130     | 165    | 120     | 4         |
| V278DK20 | 20      | PN16              | 105     | 150     | 165    | 120     | 4,5       |
| V278DK01 | 25      | PN16              | 115     | 160     | 175    | 140     | 5         |
| V278DK1C | 32      | PN16              | 140     | 180     | 180    | 140     | 7         |
| V278DK1M | 40      | PN16              | 150     | 200     | 220    | 160     | 11        |
| V278DK02 | 50      | PN16              | 165     | 230     | 230    | 160     | 13        |
| V278DK2M | 65      | PN16              | 185     | 290     | 245    | 180     | 19        |
| V278DK63 | 80      | PN16              | 200     | 310     | 295    | 200     | 25        |
| V278DK04 | 100     | PN16              | 220     | 350     | 330    | 225     | 35        |
| V278DK05 | 125     | PN16              | 250     | 400     | 365    | 250     | 58        |
| V278DK06 | 150     | PN16              | 285     | 480     | 420    | 300     | 80        |
| -        | 175     | PN16              | 315     | 550     | 500    | 400     | 125       |
| -        | 200     | PN16              | 340     | 600     | 510    | 400     | 145       |
| -        | 250     | PN10              | 395     | 730     | 600    | 520     | 230       |
| -        | 300     | PN10              | 445     | 850     | 670    | 520     | 330       |
| -        | 350     | PN10              | 505     | 980     | 755    | 640     | 440       |
| -        | 400     | PN10              | 565     | 1100    | 835    | 640     | 605       |
| -        | 450     | PN10              | 615     | 1200    | 920    | 640     | 705       |
| -        | 500     | PN10              | 670     | 1250    | 970    | 640     | 900       |
| -        | 600     | PN10              | 780     | 1450    | 1200   | 640     | 1130      |





INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

|                       |                                              |
|-----------------------|----------------------------------------------|
| DISEÑO                | Norma DIN EN 13709 Tipo STOP/SDNR (DIN 3356) |
| -                     | EN 558 Series 1 (DIN 3202 F1)                |
| DIMENSIÓN DE LA BRIDA | DIN Flanges acc. to EN 1092-1/B (DIN 2501)   |
| CONEXIÓN DE BRIDA     | PN10/16                                      |
| OPCIONES              | TAPÓN DE DRENAJE                             |

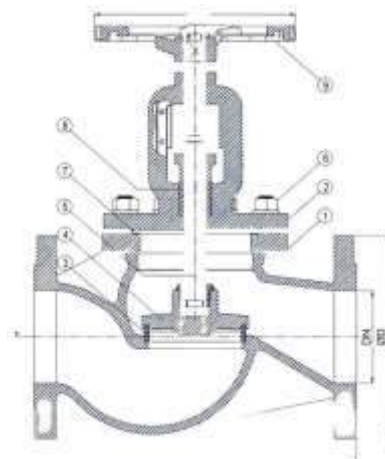
- Válvulas de globo de acero fundido según la norma DIN, con revestimiento de acero inoxidable, presión nominal PN4/6/10/16, modelo recto, bonete atornillado, tornillo exterior y yugo. Bridas de cara alzada según DIN. Con indicador de apertura y cierre. TIPO APROBADO.
- Aplicación: Vapor, agua fría y caliente, aceite y gases y medios agresivos, para altas temperaturas y presiones.



RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE AND TEMPERATURE RANGES

| PERFORAR        | CLASIFICACIÓN DE PRESIÓN | PRESIÓN DE TRABAJO [BAR] | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
|-----------------|--------------------------|--------------------------|------------------------------------|----------|
|                 |                          | 120°C                    | CUBIERTA                           | CLAUSURA |
| DN 15 - DN 200  | PN16                     | 16                       | 24                                 | 17.6     |
| DN 250 - DN 300 | PN10                     | 10                       | 15                                 | 11       |
| DN 350          | PN6                      | 6                        | 9                                  | 6.6      |
| DN 400 - DN 600 | PN4                      | 4                        | 6                                  | 4.4      |

| PART NO. | COMPONENTES           | MATERIAL    |            |         |
|----------|-----------------------|-------------|------------|---------|
| 1        | Cuerpo                | GP240GH     | 10619      | GSC25   |
| 2        | Casquete              | GP240GH     | 10619      | GSC25   |
| 3        | Asiento               | X5CrNi18-10 | 14301      | AISI304 |
| 4        | Cuña (≤65)            | X20Cr13     | 14021      | AISI420 |
| 4        | Cuña (>80)            | GP240GH     | 10916      | GSC25   |
| 5        | Vástago               | X20Cr13     | 14021      | AISI420 |
| 6        | Pernos, tuercas       | Acero       | Acero      | Acero   |
| 7        | Junta del capó        | Grafito     | Grafito    | Grafito |
| 8        | Embalaje de glándulas | Grafito     | Grafito    | Grafito |
| 9        | Volante               | EN-GJ250    | EN-JL 1040 | GG25    |



| REF       | DN [MM] | CONEXIÓN DE BRIDA | ØD [MM] | ØL [MM] | H [MM] | ØR [MM] | PESO [KG] |
|-----------|---------|-------------------|---------|---------|--------|---------|-----------|
| -         | 15      | PN16              | 95      | 130     | 165    | 120     | 4         |
| -         | 20      | PN16              | 105     | 150     | 165    | 120     | 4,5       |
| -         | 25      | PN16              | 115     | 160     | 175    | 140     | 5         |
| -         | 32      | PN16              | 140     | 180     | 180    | 140     | 7         |
| V278DIR1M | 40      | PN16              | 150     | 200     | 220    | 160     | 11        |
| V278DIR2  | 50      | PN16              | 165     | 230     | 230    | 160     | 13        |
| -         | 65      | PN16              | 185     | 290     | 245    | 180     | 19        |
| V278DIR3  | 80      | PN16              | 200     | 310     | 295    | 200     | 25        |
| V278DIR4  | 100     | PN16              | 220     | 350     | 330    | 225     | 35        |
| V278DIR1  | 125     | PN16              | 250     | 400     | 365    | 250     | 58        |
| -         | 150     | PN16              | 285     | 480     | 420    | 300     | 80        |
| -         | 175     | PN16              | 315     | 550     | 500    | 400     | 125       |
| -         | 200     | PN16              | 340     | 600     | 510    | 400     | 145       |
| -         | 200     | PN10              | 340     | 600     | 510    | 400     | 145       |
| -         | 250     | PN10              | 395     | 730     | 600    | 520     | 230       |
| -         | 300     | PN10              | 445     | 850     | 670    | 520     | 330       |
| -         | 350     | PN10              | 505     | 980     | 755    | 640     | 430       |
| -         | 400     | PN10              | 565     | 1100    | 835    | 640     | 605       |
| -         | 450     | PN10              | 615     | 1200    | 920    | 640     | 750       |
| -         | 500     | PN10              | 670     | 1250    | 970    | 640     | 900       |

VÁLVULA GLOBO PASO ANGULAR HIERRO  
BRONCE Fº279  
CAST IRON ANGLE GLOVE VALVE

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

|                       |                                         |
|-----------------------|-----------------------------------------|
| DISEÑO                | DIN 86251 Tipo STOP/SDNR (DIN 3356)     |
| -                     | EN 558 Serie 8 (DIN 3202 F32)           |
| DIMENSIÓN DE LA BRIDA | Bridas DIN según EN 1092-2/B (DIN 2501) |
| CONEXIÓN DE BRIDA     | PN10/16                                 |
| OPCIONES              | TAPÓN DE DRENAJE                        |

- Válvulas de globo de hierro fundido según DIN, con embellecedor de bronce, presión nominal PN 4/6/10/16, modelo recto, bonete atornillado, tornillo exterior y yugo. Bridas de cara alzada según DIN. TIPO APROBADO.
- Aplicación: A bordo de barcos para agua caliente y fría, aceite y vapor.

RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE Y TEMPERATURE RANGES

| PERFORAR        | CLASIFICACIÓN DE PRESIÓN | PRESIÓN DE TRABAJO [BAR] |       | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
|-----------------|--------------------------|--------------------------|-------|------------------------------------|----------|
|                 |                          | 120°C                    | 180°C | CUBIERTA                           | CLAUSURA |
| DN 15 - DN 200  | PN16                     | 16                       | 10    | 24                                 | 17.6     |
| DN 250          | PN10                     | 10                       | 6     | 15                                 | 11       |
| DN 300 - DN 350 | PN6                      | 6                        | 4     | 9                                  | 6.6      |
| DN 400 - DN 600 | PN4                      | 4                        | 2     | 6                                  | 4.4      |

| PART NO. | COMPONENTES           | MATERIAL         |            |         |
|----------|-----------------------|------------------|------------|---------|
| 1        | Cuerpo                | EN-GJL250        | EN-JL 1040 | GG25    |
| 2        | Casquete              | EN-GJL250        | EN-JL 1040 | GG25    |
| 3        | Asiento               | CuSn5Zn5Pb5-C    | CC491K     | RG5     |
| 4        | Cuña (≤65)            | CuSn5Zn5Pb5-C    | CC491K     | RG5     |
| 4        | Cuña (>80)            | EN-GJS400-18-LT  | EN-JS 1025 | GGG40.3 |
| 5        | Vástago               | CuZn35Ni3Mn2AlPb | W710R      | Som59   |
| 6        | Pernos, tuercas       | Acero            | Acero      | Acero   |
| 7        | Junta del capó        | Grafito          | Grafito    | Grafito |
| 8        | Embalaje de glándulas | Grafito          | Grafito    | Grafito |
| 9        | Volante               | EN-GJL250        | EN-JL 1040 | GG25    |

| REF      | DN [MM] | CONEXIÓN DE BRIDA | ØD [MM] | ØL [MM] | H [MM] | ØR [MM] | PESO [KG] |
|----------|---------|-------------------|---------|---------|--------|---------|-----------|
| -        | 15      | PN16              | 95      | 90      | 160    | 120     | 3,8       |
| -        | 20      | PN16              | 105     | 95      | 155    | 120     | 4         |
| V279DK01 | 25      | PN16              | 115     | 100     | 165    | 140     | 5         |
| V279DK1C | 32      | PN16              | 140     | 105     | 170    | 140     | 7         |
| V279DK1M | 40      | PN16              | 150     | 115     | 210    | 160     | 10        |
| V279DK02 | 50      | PN16              | 165     | 125     | 210    | 160     | 12        |
| V279DK2M | 65      | PN16              | 185     | 145     | 225    | 180     | 17        |
| V279DK63 | 80      | PN16              | 200     | 155     | 260    | 200     | 23        |
| V279DK04 | 100     | PN16              | 220     | 175     | 305    | 225     | 33        |
| V279DK05 | 125     | PN16              | 250     | 200     | 310    | 250     | 50        |
| -        | 150     | PN16              | 285     | 225     | 350    | 300     | 70        |
| -        | 175     | PN16              | 315     | 250     | 420    | 400     | 90        |
| -        | 200     | PN16              | 340     | 275     | 420    | 400     | 110       |
| -        | 200     | PN10              | 340     | 275     | 420    | 400     | 110       |
| -        | 250     | PN10              | 395     | 325     | 490    | 520     | 155       |
| -        | 300     | PN10              | 445     | 375     | 530    | 520     | 215       |
| -        | 350     | PN10              | 505     | 425     | 610    | 640     | 275       |
| -        | 400     | PN10              | 565     | 475     | 660    | 640     | 360       |
| -        | 450     | PN10              | 615     | 500     | 715    | 640     | 395       |
| -        | 500     | PN10              | 670     | 525     | 765    | 640     | 485       |

## INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

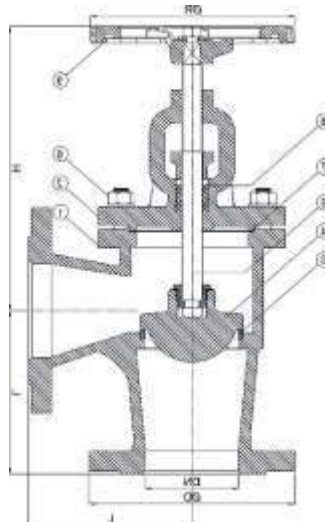
|                       |                                            |
|-----------------------|--------------------------------------------|
| DISEÑO                | DIN EN 13709 Tipo STOP/SDNR (DIN 3356)     |
| -                     | EN 558 Series 8 (DIN 3202 F32)             |
| DIMENSIÓN DE LA BRIDA | DIN Flanges acc. to EN 1092-1/B (DIN 2501) |
| CONEXIÓN DE BRIDA     | PN10/16                                    |
| OPCIONES              | TAPÓN DE DRENAJE                           |

- Válvulas de globo de acero fundido según la norma DIN, con revestimiento de acero inoxidable, presión nominal PN 4/6/10/16, modelo recto, bonete atornillado, tornillo exterior y yugo. Bridas de cara alzada según DIN. TIPO APROBADO.
- Aplicación: Vapor, agua fría y caliente, aceite y gases y medios agresivos, para altas temperaturas y presiones.

## RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE AND TEMPERATURE RANGES

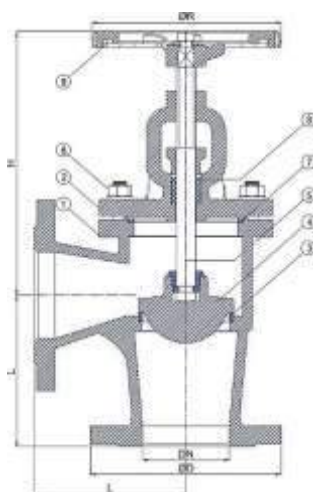
| PERFORAR        | CLASIFICACIÓN DE PRESIÓN | PRESIÓN DE TRABAJO [BAR] | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
|-----------------|--------------------------|--------------------------|------------------------------------|----------|
|                 |                          | 120°C                    | CUBIERTA                           | CLAUSURA |
| DN 15 - DN 200  | PN16                     | 16                       | 24                                 | 17.6     |
| DN 250 - DN 300 | PN10                     | 10                       | 15                                 | 11       |
| DN 350          | PN6                      | 6                        | 9                                  | 6.6      |
| DN 400 - DN 600 | PN4                      | 4                        | 6                                  | 4.4      |

| PART NO. | COMPONENTES           | MATERIAL    |            |         |
|----------|-----------------------|-------------|------------|---------|
| 1        | Cuerpo                | GP240GH     | 10619      | GSC25   |
| 2        | Casquete              | GP240GH     | 10619      | GSC25   |
| 3        | Asiento               | X5CrNi18-10 | 14301      | AISI304 |
| 4        | Cuña (≤65)            | X20Cr13     | 14021      | AISI420 |
| 4        | Cuña (>80)            | GP240GH     | 10916      | GSC25   |
| 5        | Vástago               | X20Cr13     | 14021      | AISI420 |
| 6        | Pernos, tuercas       | Acero       | Acero      | Acero   |
| 7        | Junta del capó        | Grafito     | Grafito    | Grafito |
| 8        | Embalaje de glándulas | Grafito     | Grafito    | Grafito |
| 9        | Volante               | EN-GJ250    | EN-JL 1040 | GG25    |



| REF       | DN [MM] | CONEXIÓN DE BRIDA | ØD [MM] | ØL [MM] | H [MM] | ØR [MM] | PESO [KG] |
|-----------|---------|-------------------|---------|---------|--------|---------|-----------|
| -         | 15      | PN16              | 95      | 90      | 160    | 120     | 3,8       |
| V279DIR0  | 20      | PN16              | 105     | 95      | 155    | 120     | 4         |
| -         | 25      | PN16              | 115     | 100     | 165    | 140     | 5         |
| -         | 32      | PN16              | 140     | 105     | 170    | 140     | 7         |
| V279DIR1M | 40      | PN16              | 150     | 115     | 210    | 160     | 11        |
| V279DIR2  | 50      | PN16              | 165     | 125     | 210    | 160     | 13        |
| V279DIR2M | 65      | PN16              | 185     | 145     | 225    | 180     | 18        |
| V279DIR3  | 80      | PN16              | 200     | 155     | 260    | 200     | 25        |
| -         | 100     | PN16              | 220     | 175     | 305    | 225     | 35        |
| V279DIR5  | 125     | PN16              | 250     | 200     | 310    | 250     | 52        |
| V279DIR6  | 150     | PN16              | 285     | 225     | 350    | 300     | 75        |
| -         | 175     | PN16              | 315     | 250     | 420    | 400     | 95        |
| -         | 200     | PN16              | 340     | 275     | 420    | 400     | 115       |
| V279DI08  | 200     | PN10              | 340     | 275     | 420    | 400     | 115       |
| V279DR10  | 250     | PN10              | 395     | 325     | 490    | 520     | 165       |
| -         | 300     | PN10              | 445     | 375     | 530    | 520     | 230       |
| -         | 350     | PN10              | 505     | 425     | 610    | 640     | 290       |
| -         | 400     | PN10              | 565     | 475     | 660    | 640     | 390       |
| -         | 450     | PN10              | 615     | 500     | 715    | 640     | 425       |
| -         | 500     | PN10              | 670     | 525     | 765    | 640     | 520       |

VÁLVULA GLOBO PASO ANGULAR Fº279  
ACERO/BRONCE  
CAST STEEL/BRONZE ANGLE GLOBE VALVE



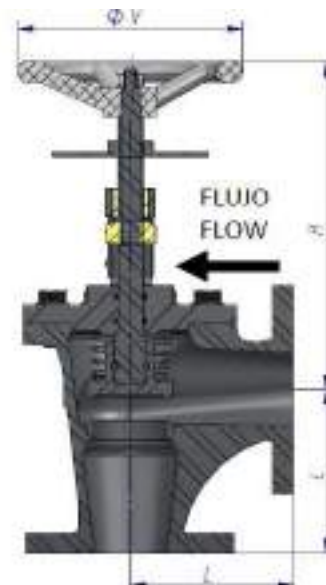
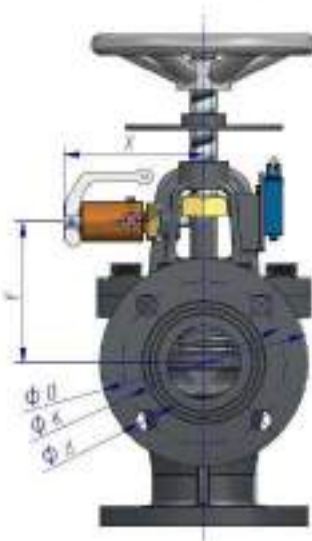
| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |                                         |
|---------------------------------------------|-----------------------------------------|
| DISEÑO                                      | DIN EN 13709 Tipo STOP/SDNR (DIN 3356)  |
| -                                           | EN 558 Serie 8 (DIN 3202 F32)           |
| DIMENSIÓN DE LA BRIDA                       | Bridas DIN según EN 1092-1/B (DIN 2501) |
| CONEXIÓN DE BRIDA                           | PN10/16                                 |
| OPCIONES                                    | TAPÓN DE DRENAJE                        |

- Válvulas de globo de hierro fundido según DIN, con embellecedor de bronce, presión nominal PN 4/6/10/16, modelo recto, bonete atornillado, tornillo exterior y yugo. Bridas de cara alzada según DIN. TIPO APROBADO.
- Aplicación: Vapor, agua fría y caliente, aceite y gases y medios agresivos, para altas temperaturas y presiones.

| RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE AND TEMPERATURE RANGES |                          |                          |       |                                    |          |
|-------------------------------------------------------------------|--------------------------|--------------------------|-------|------------------------------------|----------|
|                                                                   |                          | PRESIÓN DE TRABAJO [BAR] |       | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
| PERFORAR                                                          | CLASIFICACIÓN DE PRESIÓN | 120°C                    | 180°C | CUBIERTA                           | CLAUSURA |
| DN 15 - DN 200                                                    | PN16                     | 16                       | 10    | 24                                 | 17.6     |
| DN 250 - DN 300                                                   | PN10                     | 10                       | 6     | 15                                 | 11       |
| DN 350                                                            | PN6                      | 6                        | 4     | 9                                  | 6.6      |
| DN 400 - DN 600                                                   | PN4                      | 4                        | 2     | 6                                  | 4.4      |

| PART NO. | COMPONENTES           | MATERIAL         |            |         |
|----------|-----------------------|------------------|------------|---------|
| 1        | Cuerpo                | GP240GH          | 10619      | GSC25   |
| 2        | Casquete              | GP240GH          | 10619      | GSC25   |
| 4        | Cuña (≤65)            | CuSn5Zn5Pb5C     | CC491K     | RG5     |
| 4        | Cuña (>80)            | GP240GH          | EN-JS-1025 | GGG40.3 |
| 3        | Asiento               | CuSn5Zn5Pb5C     | 10619      | GSC25   |
| 5        | Vástago               | CuZn35Ni3Mn2AlPb | CW710R     | Som59   |
| 6        | Pernos, tuercas       | Acero            | Acero      | Acero   |
| 7        | Junta del capó        | Grafito          | Grafito    | Grafito |
| 8        | Embalaje de glándulas | Grafito          | Grafito    | Grafito |
| 9        | Volante               | EN-GLJ250        | EN-JL 1040 | GG25    |

| REF      | DN [MM] | CONEXIÓN DE BRIDA | ØD [MM] | ØL [MM] | H [MM] | ØR [MM] | PESO [KG] |
|----------|---------|-------------------|---------|---------|--------|---------|-----------|
| V279DR0M | 15      | PN16              | 95      | 90      | 165    | 120     | 3.8       |
| V279DR34 | 20      | PN16              | 105     | 95      | 165    | 120     | 4.0       |
| V279DR01 | 25      | PN16              | 115     | 100     | 175    | 140     | 5.0       |
| V279DR1C | 32      | PN16              | 140     | 105     | 180    | 140     | 7.0       |
| V279DR1M | 40      | PN16              | 150     | 115     | 210    | 160     | 11        |
| V279DR02 | 50      | PN16              | 165     | 125     | 230    | 160     | 13        |
| V279DR2M | 65      | PN16              | 185     | 145     | 245    | 180     | 18        |
| V279DR63 | 80      | PN16              | 200     | 155     | 295    | 200     | 25        |
| V279DR04 | 100     | PN16              | 220     | 175     | 330    | 225     | 35        |
| V279DR05 | 125     | PN16              | 250     | 200     | 365    | 250     | 55        |
| V279DR06 | 150     | PN16              | 285     | 225     | 420    | 300     | 75        |
| -        | 175     | PN16              | 315     | 250     | 500    | 400     | 115       |
| -        | 200     | PN16              | 340     | 275     | 510    | 400     | 135       |
| V279DR08 | 200     | PN10              | 340     | 275     | 510    | 400     | 135       |
| -        | 250     | PN10              | 395     | 325     | 600    | 520     | 215       |
| -        | 300     | PN10              | 445     | 375     | 670    | 520     | 305       |
| -        | 350     | PN10              | 505     | 425     | 755    | 640     | 405       |



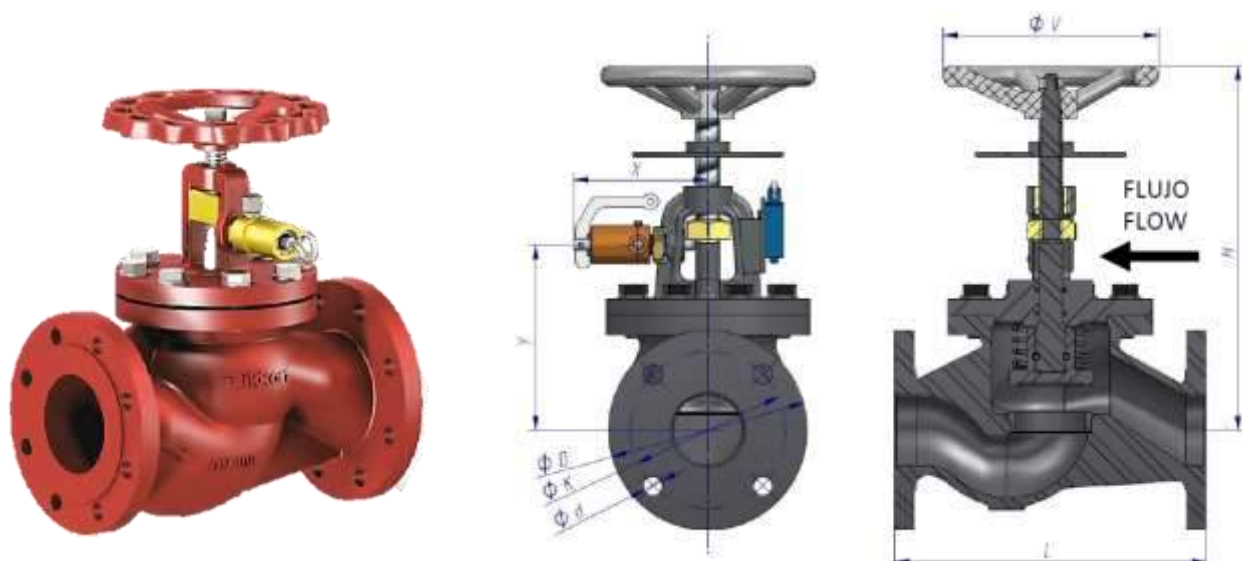
|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| <b>Cuerpo / Body</b>             | Fund. Nodular / Nod. Cast Iron (GGG40.3)               |
| <b>Asientos / Body Seat</b>      | Inox/ S. Steel (AISI420)                               |
| <b>Asiento Disco / Disk Seat</b> | Inox/ S. Steel (AISI420)                               |
| <b>Tornilleria / Bolting</b>     | Acero/ Steel                                           |
| <b>Volante / Hand Wheel</b>      | HºFº (GG25) o Aluminio / Cast Iron (GG25) or Aluminium |

- Cuerpo/Tapa: EN 13789, Body / Bonnet: EN 13789.
- Distancia entre bridas EN 558 Serie8(DIN-3202/F32)) / EN 558 Series 8 Face to Face (DIN-3202/F32)).
- Bridas dimensionadas EN 1092-2 (DIN 2501) /Flanges to EN 1092-2 (DIN 2501)

| DN   | REF       | D   | L   | H abierto / H open | V   | X   | Y   | Peso [Kg] / Weight |
|------|-----------|-----|-----|--------------------|-----|-----|-----|--------------------|
| [mm] |           |     |     |                    |     |     |     |                    |
| 15   | V279DR915 | 95  | 90  | 201                | 100 | 160 | 95  | 5                  |
| 20   | V279DR920 | 105 | 95  | 210                | 100 | 160 | 95  | 5                  |
| 25   | V279DR925 | 115 | 100 | 201                | 100 | 160 | 95  | 7                  |
| 32   | V279DR932 | 140 | 105 | 246                | 150 | 170 | 95  | 10                 |
| 40   | V279DR940 | 150 | 115 | 242                | 150 | 170 | 95  | 12                 |
| 50   | V279DR950 | 165 | 125 | 242                | 150 | 170 | 95  | 14                 |
| 65   | V279DR965 | 185 | 145 | 286                | 200 | 175 | 125 | 20                 |
| 80   | V279DR980 | 200 | 155 | 286                | 200 | 175 | 125 | 25                 |
| 100  | V279DR910 | 220 | 175 | 307                | 200 | 180 | 185 | 35                 |
| 125  | V279DR912 | 250 | 200 | 375                | 250 | 195 | 200 | 80                 |
| 150  | V279DR915 | 285 | 225 | 400                | 300 | 195 | 215 | 82                 |



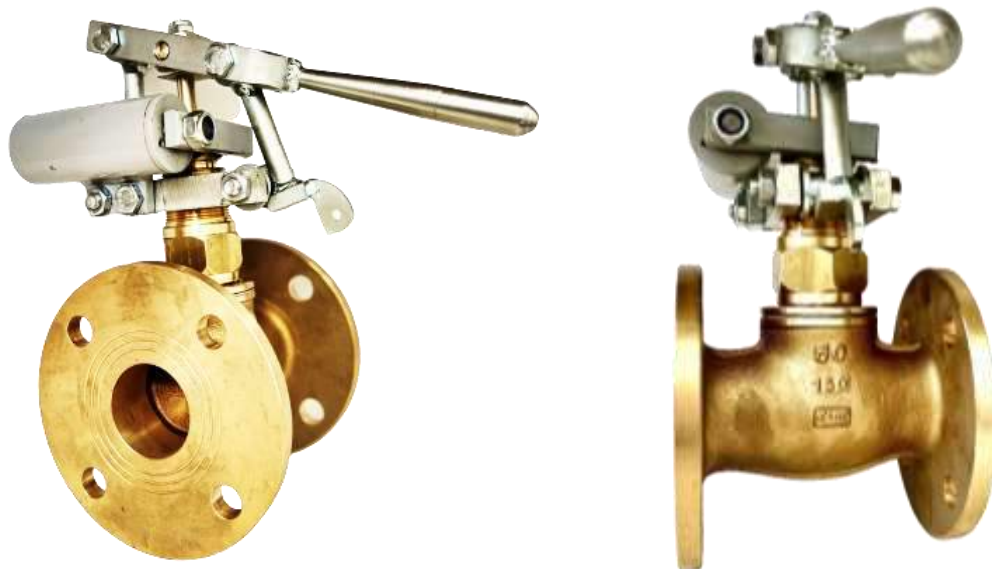
VÁLVULA DISPARO RAPIDO Fª278  
ACCIONAMIENTO MANUAL HIDRÁULICO O NEUMÁTICO PN16/10  
QUICK CLOSING VALVE, STRAIGHT, NODULAR CAST IRON,  
ACTUATED BY HAND, HYDRAULICALLY OR NEUMATICALLY, NP16/10



|                                  |                                          |
|----------------------------------|------------------------------------------|
| <b>Cuerpo / Body</b>             | Fund. Nodular / Nod. Cast Iron (GGG40.3) |
| <b>Asientos / Body Seat</b>      | Inox/ S. Steel (AISI304)                 |
| <b>Asiento Disco / Disk Seat</b> | Inox/ S. Steel (AISI420)                 |
| <b>Tornilleria / Bolting</b>     | Acero/ Steel                             |
| <b>Volante / Hand Wheel</b>      | HºFº o AI / Cast Iron or AI (GG25)       |

| DN   | REF       | D   | L   | H abierto / H open | V   | X   | Y   | Peso [Kg] / Weight |
|------|-----------|-----|-----|--------------------|-----|-----|-----|--------------------|
| [mm] |           |     |     |                    |     |     |     |                    |
| 15   | -         | 95  | 130 | 195                | 100 | 160 | 90  | 4                  |
| 20   | V278DRK34 | 105 | 150 | 200                | 100 | 160 | 90  | 4,5                |
| 25   | V278DRK01 | 115 | 160 | 205                | 100 | 160 | 90  | 5                  |
| 32   | V278DRK1C | 140 | 180 | 265                | 150 | 170 | 130 | 7                  |
| 40   | V278DRK1M | 150 | 200 | 275                | 150 | 170 | 130 | 11                 |
| 50   | V278DRK02 | 165 | 230 | 280                | 150 | 170 | 130 | 13                 |
| 65   | V278DRK2M | 185 | 290 | 335                | 200 | 175 | 175 | 19                 |
| 80   | V278DRK03 | 200 | 310 | 335                | 200 | 175 | 175 | 25                 |
| 100  | -         | 220 | 350 | 390                | 200 | 180 | 250 | 35                 |
| 125  | -         | 250 | 400 | 405                | 250 | 195 | 275 | 55                 |
| 150  | -         | 285 | 480 | 470                | 300 | 195 | 290 | 75                 |

Esta válvula de disparo rápido, está formada por cuerpo en Bronce GR10 y mecanismos en Latón. Su uso principal es para el corte de la entrada de gasoil.

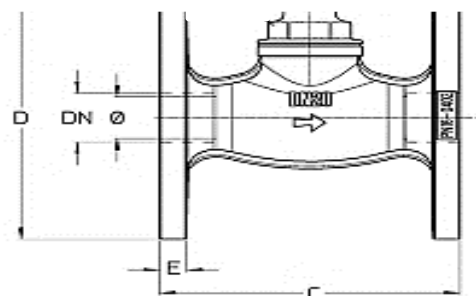


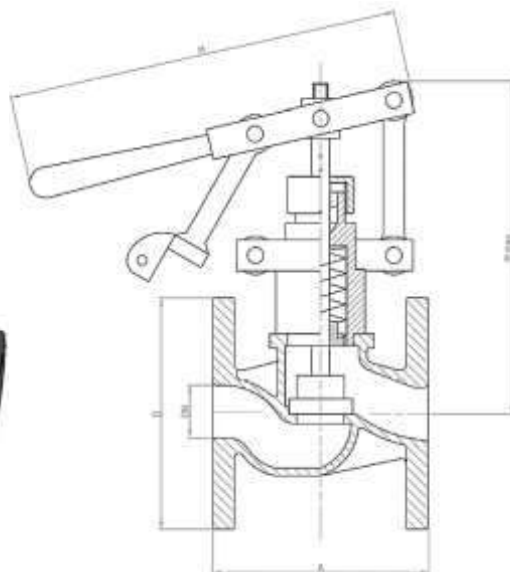
**Opciones del Actuador:** manual o neumático

| DN     | REF      | MM | C     | D     | E   |
|--------|----------|----|-------|-------|-----|
| 1"     | V28DR501 | 25 | 104   | 119   | 9,5 |
| 1 1/4" | V28DR51C | 32 | 113   | 138,5 | 9,5 |
| 1 1/2" | V28DR51M | 40 | 133,5 | 147   | 11  |
| 2"     | V28DR502 | 50 | 154   | 163   | 11  |
| 2 1/2" | V28DR52M | 65 | 170   | 185   | 13  |

Estas válvulas se fabrican en medidas DN-40 Y DN-50:

| MEDIDA | DISTANCIA ENTRE BRIDAS | ØBRIDA |
|--------|------------------------|--------|
| DN-40  | 133,5                  | 150    |
| DN-50  | 154                    | 165    |





DN50-Bridas dimensioness/DIN2576.

Distancia entre bridas- 155mmAltura total-375mm

| DIMENSIONES-DIMENSIONS |               |       |         |          |       |
|------------------------|---------------|-------|---------|----------|-------|
| REF                    | DN (Pulgadas) | D(mm) | A(mm)   | HMax(mm) | M(mm) |
| -                      | DN20 (3/4")   | 105   | 80/150  | 131      | 180   |
| -                      | DN25 (1")     | 115   | 90/160  | 135      | 180   |
| -                      | DN32 (1 1/4") | 140   | 105/180 | 145      | 180   |
| V28DR21M               | DN40 (1 1/2") | 150   | 120/200 | 210      | 225   |
| V28DR202               | DN50 (2")     | 165   | 140/230 | 225      | 225   |
| -                      | DN65 (2 1/2") | 185   | 180/290 | 270      | 305   |

## APLICACIONES:

La válvula de corte rápido se trata de accesorio para ser instalado a la salida de los tanques de combustible en buques de forma que garantiza el corte de suministro en aquellas situaciones que así requiera por seguridad.

Válvula de clase II según norma de sociedades de clasificación; trabajo hasta 3 bar de presión.

## FUNCIONAMIENTO:

De funcionamiento simple, su accionamiento puede ser:

- Manual: actuando mediante tiro de cable unido a la válvula.
- Hidráulico: mediante el accionamiento de cilindro NC situado en la base de la válvula.

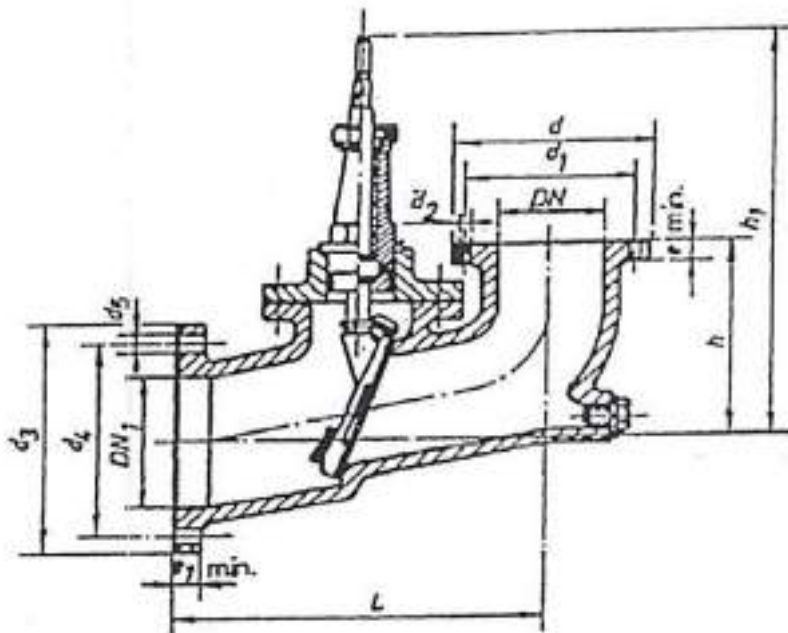
## METALES DE CONSTRUCCION:

Cuerpo de válvula: ASTM A105N es un grado de material de acero con alto contenido de carbono que se utiliza en aplicaciones donde se requiere la resistencia y la dureza del material. El alto contenido de carbono le da al material su fuerza y dureza, lo que lo hace ideal para su uso en aplicaciones tales como recipientes a presión, Válvulas de, bridas, Guarniciones, y otros componentes similares. Este grado de material de acero también se usa comúnmente en aplicaciones donde el material está sujeto a altas temperaturas.

Accionador-partes interiores. CU SN10 Zn2 Rg10 DIN1705  
Cu Sn5 Pb5 Zn5 Rg5 DIN1705

Accionador exterior: ASTM A105N; tratamiento: zincado electrolítico

## CONSULTAR DISPONIBILIDAD EN RG5 / RG10

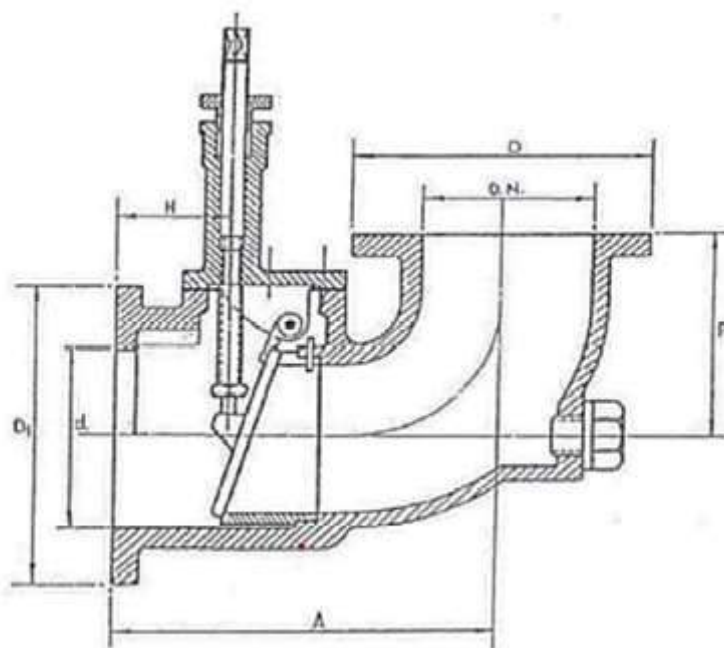


NORMAS DIN- DIMENSIONES EN MILÍMETROS

| DN  | d   | d1  | d2 | e<br>min | Tornillos |       | DN1 | d3  | d4  | d5 | e1<br>min | Tornillos |       | h   | h1  | L   |
|-----|-----|-----|----|----------|-----------|-------|-----|-----|-----|----|-----------|-----------|-------|-----|-----|-----|
|     |     |     |    |          | Nº        | ROSCA |     |     |     |    |           | Nº        | ROSCA |     |     |     |
| 50  | 165 | 125 | 18 | 18       | 4         | M16   | 65  | 185 | 145 | 18 | 20        | 4         | M16   | 140 | 250 | 200 |
| 65  | 185 | 145 | 18 | 18       | 4         | M16   | 100 | 220 | 180 | 18 | 20        | 8         | M16   | 164 | 290 | 220 |
| 80  | 200 | 160 | 18 | 20       | 8         | M16   | 125 | 250 | 210 | 18 | 22        | 8         | M16   | 188 | 350 | 250 |
| 100 | 220 | 180 | 18 | 20       | 8         | M16   | 150 | 285 | 240 | 22 | 22        | 8         | M20   | 223 | 400 | 295 |
| 125 | 250 | 210 | 18 | 22       | 8         | M16   | 175 | 315 | 270 | 22 | 24        | 8         | M20   | 256 | 460 | 325 |
| 150 | 285 | 210 | 22 | 22       | 8         | M20   | 200 | 340 | 295 | 22 | 24        | 8         | M20   | 285 | 515 | 352 |

VÁLVULAS SIMILAR A **NAE- 4565210 (CON MANIOBRA).**VÁLVULAS SIMILAR A **NAE- 4565110 (SIN MANIOBRA).****NOTA 1:** OTROS MATERIALES, DIMENSIONES O NORMAS CONSULTAR.

| DENOMINACIÓN | MATERIAL                                           |
|--------------|----------------------------------------------------|
| CUERPO       | ACERO MOLDEADO                                     |
| VÁSTAGO      | LATÓN- BRONCE NIAL-<br>ACERO INOXIDABLE-<br>BRONCE |
| CLAPETA      | BRONCE- ACERO<br>INOXIDABLE                        |
| ASIENTO      | BRONCE- ACERO<br>INOXIDABLE                        |



DE USO PARA LAS TUBERIAS DE DESCARGA SANITARIA Y DEL SERVICIO DE IMBORNABLES INTERIORES.  
PRESIÓN DE PRUEBA DEL CUERPO: 10KGS/CM<sup>2</sup>  
PRESIÓN DE PRUEBA CHARNELA: 5 KGS/CM<sup>2</sup>

**MATERIALES:**

- CUERPO. DE ACERO FUNDIDO GS-45.
- FRISA: DE GOMA O CUERO.
- VÁSTAGO DE CIERRE: LATÓN Ms-59

BRIDAS DE ENTRADA: PN-10 O SOBRE DEMANDA

| DIMENSIONES |     |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|-----|
| DN          | D   | d   | D1  | A   | H   | P   |
| 50          | 165 | 80  | 200 | 230 | 80  | 125 |
| 65          | 185 | 80  | 200 | 255 | 90  | 140 |
| 80          | 200 | 100 | 220 | 255 | 90  | 140 |
| 100         | 220 | 125 | 250 | 280 | 90  | 155 |
| 125         | 250 | 150 | 285 | 310 | 95  | 170 |
| 150         | 285 | 200 | 340 | 380 | 120 | 210 |
| 200         | 340 | 250 | 395 | 405 | 125 | 260 |



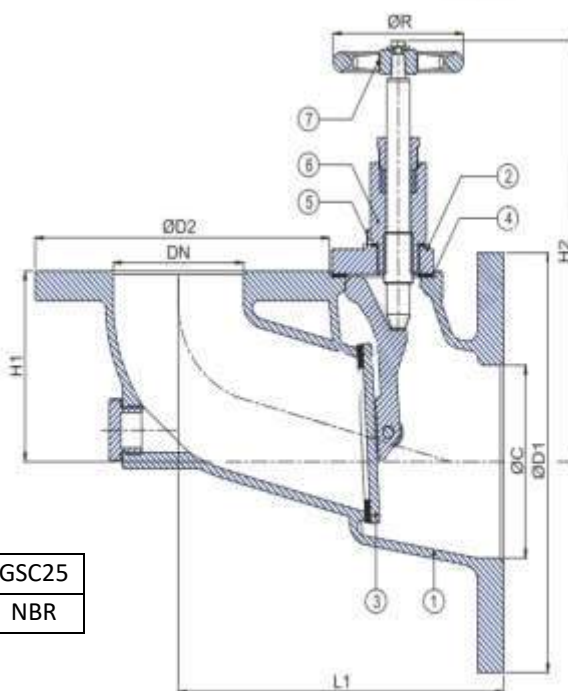
| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |                                                           |
|--------------------------------------------|-----------------------------------------------------------|
| DISEÑO                                     | DIN HNA SR 6 FORM B - CON DISPOSITIVO DE CIERRE Y VOLANTE |
| DIMENSIÓN DE LA BRIDA                      | BRIDAS DIN SEGÚN EN 1092-1/A (DIN 2501)                   |
| OPCIONES                                   | INDICADOR                                                 |



- Las válvulas de mal tiempo de acero fundido con bridas y dispositivo de cierre con volante, evitan que el agua de mar entre a este sistema con mal tiempo.
- Aplicación: Instalado principalmente en sistemas de tuberías sanitarias que tienen salida lateral.

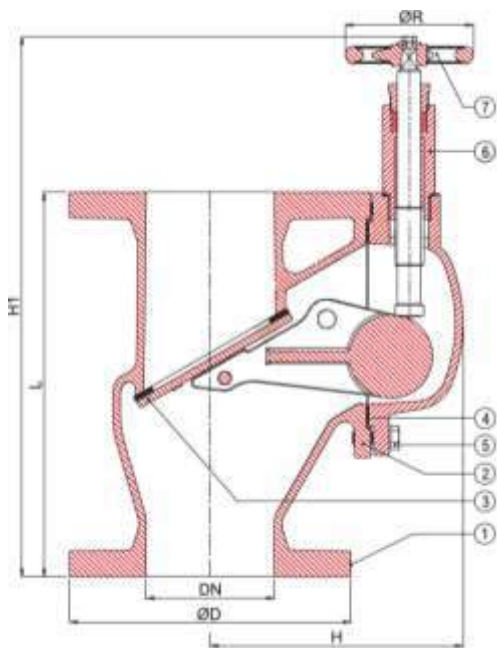
| RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE Y TEMPERATURE RANGES |                          |                                    |          |
|-----------------------------------------------------------------|--------------------------|------------------------------------|----------|
|                                                                 |                          | PRESIÓN DE PRUEBA HIDRÁULICA [BAR] |          |
| PERFORAR                                                        | CLASIFICACIÓN DE PRESIÓN | CUBIERTA                           | CLAUSURA |
| DN 50 - DN 250                                                  | PN4                      | 6                                  | 4.4      |

| PARTE NO. | COMPONENTE   | MATERIAL |        |       |
|-----------|--------------|----------|--------|-------|
| 1         | CUERPO/ BODY | GP240GH  | 1.0619 | GSC25 |
| 3         | DISCO / DISC | RG5+NBR  | RG5    | NBR   |



| REF      | DN [MM] | CONEXIÓN DE BRIDA | DN / ØD1 [MM] | ØD2 [MM] | L1 [MM] | H1 [MM] | ØC [MM] | H2 [MM] | ØR [MM] | PESO [KG] |
|----------|---------|-------------------|---------------|----------|---------|---------|---------|---------|---------|-----------|
| V296D023 | 50      | PN10              | 80 / 200      | 165      | 180     | 90      | 70      | 260     | 140     | 12        |
| V296D2M4 | 65      | PN10              | 100 / 220     | 185      | 200     | 100     | 85      | 270     | 140     | 14        |
| V296D035 | 80      | PN10              | 125 / 250     | 200      | 215     | 108     | 100     | 290     | 140     | 20        |
| V296D046 | 100     | PN10              | 150 / 285     | 220      | 250     | 130     | 130     | 305     | 140     | 25        |
| V296D517 | 125     | PN10              | 175 / 315     | 250      | 290     | 152     | 158     | 330     | 160     | 36        |
| V296D068 | 150     | PN10              | 200 / 340     | 285      | 330     | 176     | 190     | 260     | 160     | 43        |
| -        | 200     | PN10              | - / 395       | 340      | 425     | 180     | 240     | 350     | 160     | 72        |
| -        | 250     | PN10              | - / 445       | 395      | 630     | 300     | 300     | 500     | 200     | 110       |

|                       |                                                              |
|-----------------------|--------------------------------------------------------------|
| Diseño                | DIN 87101 Formulario B - con dispositivo de cierre y volante |
| Dimensión de la brida | Bridas DIN según EN 1092-2/A (DIN 2501)                      |
| Opciones              | Indicador                                                    |

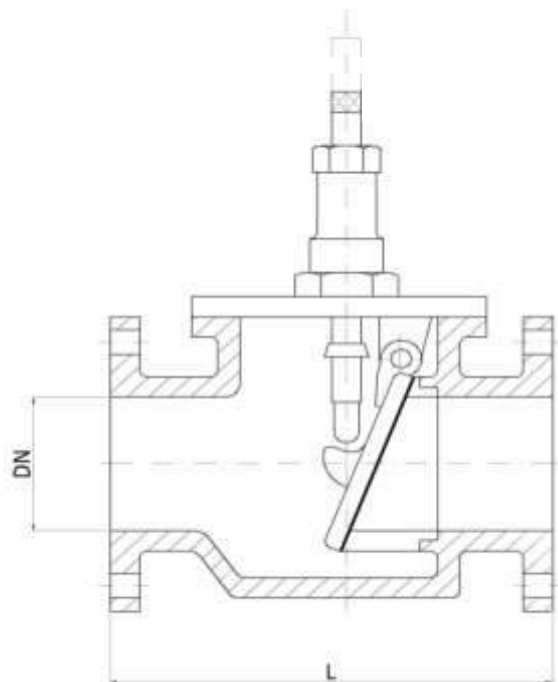


- Las válvulas de mal tiempo de hierro fundición nodular con bridas DIN de cara plana y disco vulcanizado NBR y dispositivo de cierre con volante, evitan que el agua de mar entre a este sistema con mal tiempo.
- Aplicación: Instalado principalmente en sistemas de tuberías sanitarias que tienen salida lateral de un barco

| Prt No. | Componente        | Materia         |            |         |
|---------|-------------------|-----------------|------------|---------|
| 1       | Cuerpo            | EN-GJS400-18-LT | ES-JS 1025 | GGG40.3 |
| 3       | Disco con sellado | RG5+NBR         | RG5        | NBR     |

|                |                          | Presión de prueba hidráulica [bar] |          |
|----------------|--------------------------|------------------------------------|----------|
| Perforar       | Clasificación de presión | Cubierta                           | Clausura |
| DN 15 - DN 250 | PN4                      | 6                                  | 4.4      |

| REF.     | DN [mm] | PN   | ØD [mm] | L [mm] | H [mm] | H1 [mm] | ØR [mm] | Peso [kg] | Código IMPA |
|----------|---------|------|---------|--------|--------|---------|---------|-----------|-------------|
| V272D902 | 50      | PN10 | 165     | 200    | 140    | 310     | 100     | 14        | 754291      |
| V272D92M | 65      | PN10 | 185     | 240    | 150    | 335     | 100     | 17        | 754292      |
| V272D903 | 80      | PN10 | 200     | 260    | 175    | 390     | 100     | 22        | 754293      |
| V272D904 | 100     | PN10 | 220     | 300    | 200    | 425     | 100     | 28        | 754294      |
| V272D905 | 125     | PN10 | 250     | 350    | 220    | 480     | 125     | 42        | 754295      |
| V272D906 | 150     | PN10 | 285     | 400    | 245    | 525     | 125     | 55        | 754296      |
| V272D908 | 200     | PN10 | 340     | 500    | 315    | 625     | 160     | 101       | -           |
| V272D910 | 250     | PN10 | 395     | 600    | 400    | 750     | 200     | 150       | -           |

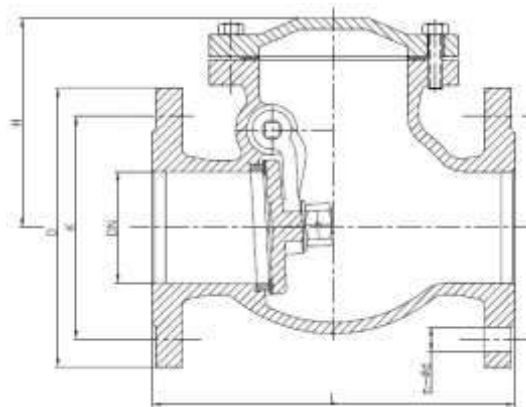
**Fº 370****MATERIALES:**

CUERPO: ACERO MOLDEADO.  
 VÁSTAGO: LATÓN- BRONCE NIAL- ACERO INOXIDBLE- BRONCE.  
 CLAPETA: BRONCE- ACERO INOXIDABLE.  
 ASIENTO: BRONCE- ACERO INOXIDABLE.

SE FABRICAN IGUALMENTE SIN MANIOBRA DE CIERRE.  
 BRIDAS: PN-10 O PN-16

**DIMENSIONES EN M/M:**

| REF      | DN  | L   |
|----------|-----|-----|
| V3704040 | 40  | 180 |
| V3704050 | 50  | 200 |
| V3704065 | 65  | 230 |
| V3704080 | 80  | 260 |
| V3704100 | 100 | 300 |
| V3704125 | 125 | 350 |
| V3704150 | 150 | 400 |



#### CARACTERÍSTICAS BÁSICAS:

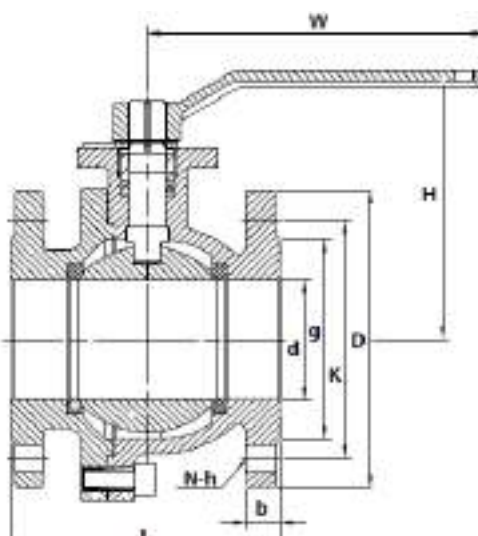
- Presión de trabajo: PN 16.
- Temperatura de trabajo: -10 °C a 100 °C.
- Bridas según: DIN 2501 (UNE-EN 1092-2 PN 10 / 16).
- Distancia entre bridas: DIN 3202-1 F6 (UNE-EN 558-1 Serie 48).
- Recubrimiento interior y exterior "EPOXY", 250 µm.
- Pruebas unitarias de presión según: UNE-EN 12266-1.
- Paso total, mínima pérdida de carga.
- Diseño unidireccional.
- Instalación horizontal o vertical.

#### DESCRIPCIÓN COMPONENTES- COMPONENTS DESCRIPTION

| Descripción -Description              | Material-Material                                    |
|---------------------------------------|------------------------------------------------------|
| Cuerpo - Body                         | Fundición Gris- Grey Cast Iron GG 25 ( EN- GJL- 250) |
| Anillo asiento Cuerpo- Body Seat Ring | Latón- Brass                                         |
| Disco- Disk                           | Fundición Gris- Grey Cast Iron GG 25 ( EN- GJL- 250) |
| Asiento disco- Disk seat              | EPDM                                                 |

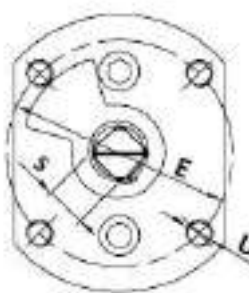
#### INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |          |                         |       |                                   |       |       |          |                                   |
|--------------------------------------------|----------|-------------------------|-------|-----------------------------------|-------|-------|----------|-----------------------------------|
| DN                                         | COD      | DIMENSIONES- DIMENSIONS |       |                                   |       |       |          | Peso aprox<br>Weight aprox<br>(g) |
|                                            |          | L (mm)                  | H(mm) | Brida / Flange EN 1092-2 PN 10/16 |       |       |          |                                   |
|                                            |          |                         |       | PN                                | D(mm) | K(mm) | n-d (mm) |                                   |
| 50                                         | V2942050 | 200                     | 127   | 10/16                             | 165   | 125   | 4 - 19   | 13,6                              |
| 65                                         | V2942065 | 240                     | 137   | 10/16                             | 185   | 145   | 4 - 19   | 20,9                              |
| 80                                         | V2942080 | 260                     | 150   | 10/16                             | 200   | 160   | 8 - 19   | 26,5                              |
| 100                                        | V2942100 | 300                     | 164   | 10/16                             | 220   | 180   | 8 - 19   | 31,8                              |
| 125                                        | V2942125 | 350                     | 185   | 10/16                             | 250   | 210   | 8 - 19   | 44,9                              |
| 150                                        | V2942150 | 400                     | 205   | 10/16                             | 285   | 240   | 8 - 23   | 71,2                              |
| 200                                        | V2942200 | 500                     | 249   | 10                                | 340   | 295   | 8 - 23   | 93                                |
| 200                                        | -        | 500                     | 249   | 16                                | 340   | 295   | 12 - 23  | 93                                |
| 250                                        | V2942250 | 600                     | 301   | 10                                | 395   | 350   | 12 -23   | 136                               |
| 250                                        | -        | 600                     | 301   | 16                                | 405   | 355   | 12 - 28  | 136                               |
| 300                                        | V2942300 | 700                     | 333   | 10                                | 455   | 400   | 12 - 23  | 220                               |
| 300                                        | -        | 700                     | 333   | 16                                | 460   | 410   | 12 - 28  | 220                               |



## CARACTERÍSTICAS BÁSICAS:

- Presión de trabajo: PN 16.
- Temperatura de trabajo: -10 °C a 150 °C.
- Distancia entre bridas: DIN 3202-1 F18 (UNE-EN 558.1 Serie 27).
- Bridas según: DIN 2501 (UNE-EN 1092-2 PN 10 / 16).
- Brida montaje actuador ISO 5211.
- Conexión mediante bridas.
- Válvula de cierre rápido, todo o nada, 1/4 de vuelta, giro 90°.
- Paso recto y total.
- Diseño bidireccional.
- Mínima pérdida de carga.



| DESCRIPCIÓN COMPONENTES- COMPONENTS DESCRIPTION |                                                     |
|-------------------------------------------------|-----------------------------------------------------|
| Descripción -Description                        | Material-Material                                   |
| Cuerpo - Body                                   | Fundición Gris- Grey Cast Iron GG 25 (EN- GJL- 250) |
| Bola - Ball                                     | Acero Inoxidable- Stainless Steel AISI 304          |
| Asiento- Seat                                   | PTFE                                                |

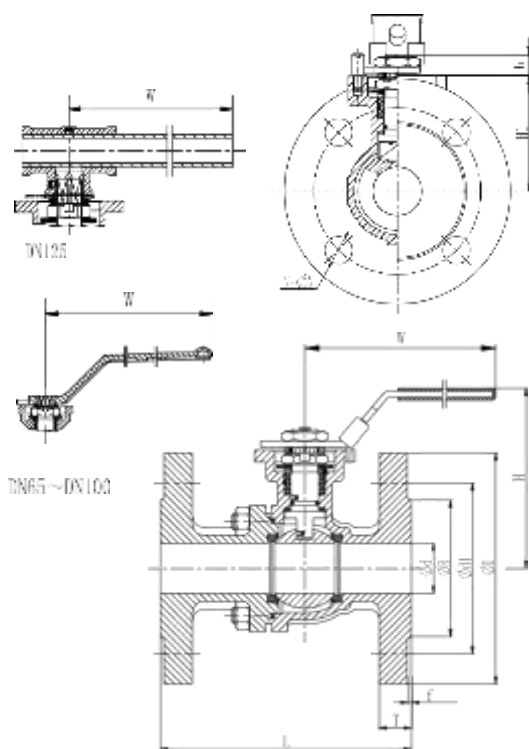
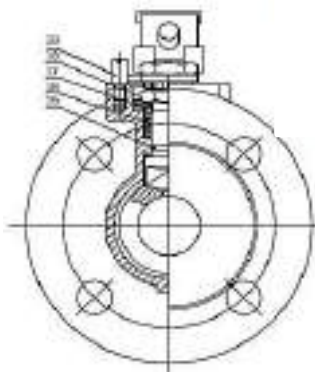
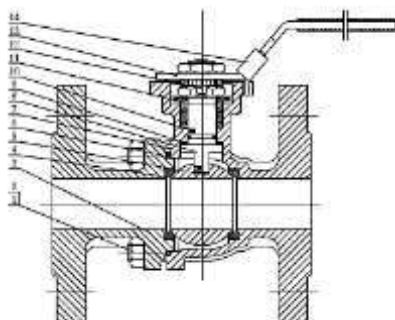
| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |          |                         |     |     |     |                                   |     |     |     |    |       |                         |     |     |       |                                      |
|--------------------------------------------|----------|-------------------------|-----|-----|-----|-----------------------------------|-----|-----|-----|----|-------|-------------------------|-----|-----|-------|--------------------------------------|
| DN                                         | COD      | DIMENSIONES- DIMENSIONS |     |     |     |                                   |     |     |     |    |       |                         |     |     |       | Peso aprox<br>Weight<br>aprox<br>(g) |
|                                            |          | d                       | L   | H   | W   | Brida / Flange EN 1092-2 PN 10/16 |     |     |     |    |       | Brida / Flange ISO 5211 |     |     |       |                                      |
|                                            |          |                         |     |     |     | PN                                | D   | k   | g   | b  | N-h   |                         | E   | U   | S     |                                      |
| 15                                         | V5102010 | 15                      | 115 | 86  | 130 | 10/16                             | 95  | 65  | 45  | 14 | 4-14  | F04                     | 42  | M5  | 9X9   | 2,8                                  |
| 20                                         | V5102020 | 20                      | 120 | 95  | 130 | 10/16                             | 105 | 75  | 58  | 16 | 4-14  | F04                     | 42  | M5  | 9X9   | 3,6                                  |
| 25                                         | V5102025 | 25                      | 125 | 100 | 160 | 10/16                             | 115 | 85  | 68  | 16 | 4-14  | F04                     | 42  | M5  | 12X12 | 4,5                                  |
| 32                                         | V5102032 | 32                      | 130 | 105 | 160 | 10/16                             | 140 | 100 | 78  | 18 | 4-19  | F05                     | 50  | M6  | 12X12 | 6,3                                  |
| 40                                         | V5102040 | 40                      | 140 | 121 | 220 | 10/16                             | 150 | 110 | 88  | 18 | 4-19  | F05                     | 50  | M6  | 14X14 | 7,8                                  |
| 50                                         | V5102050 | 50                      | 150 | 136 | 240 | 10/16                             | 165 | 125 | 102 | 20 | 4-19  | F07                     | 70  | M8  | 17X17 | 9,9                                  |
| 65                                         | V5102065 | 65                      | 170 | 161 | 330 | 10/16                             | 185 | 145 | 122 | 20 | 4-19  | F10                     | 102 | M10 | 19X19 | 15,5                                 |
| 80                                         | V5102080 | 80                      | 180 | 180 | 330 | 10/16                             | 200 | 160 | 138 | 22 | 8-19  | F10                     | 102 | M10 | 19X19 | 20,1                                 |
| 100                                        | V5102100 | 100                     | 190 | 222 | 400 | 10/16                             | 220 | 180 | 158 | 24 | 8-19  | F10                     | 102 | M10 | 22X22 | 26,3                                 |
| 125                                        | V5102125 | 125                     | 325 | 260 | 645 | 10/16                             | 250 | 210 | 188 | 26 | 8-19  | F12                     | 125 | M12 | 27X27 | 47,3                                 |
| 150                                        | V5102150 | 150                     | 350 | 280 | 645 | 10/16                             | 285 | 240 | 212 | 26 | 8-23  | F14                     | 140 | M16 | 27X27 | 67,4                                 |
| 200                                        | V5102200 | 200                     | 400 | 340 | 860 | 16                                | 340 | 295 | 268 | 30 | 12-23 | F16                     | 165 | M20 | 30X30 | 105,8                                |



VÁLVULA BOLA F<sup>a</sup>510 C/BRIDAS INOX  
STAINLESS STEEL FLANGED ENDS BALL VALVE

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



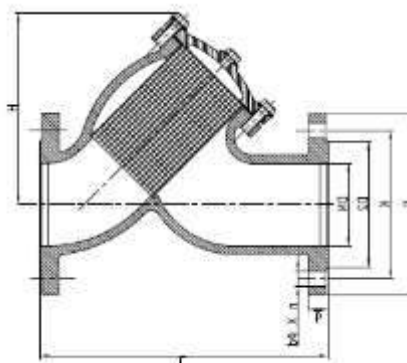
DESCRIPCIÓN COMPONENTES - COMPONENTS DESCRIPTION

| Ítem | Descripción - Description                    | Material - Material |
|------|----------------------------------------------|---------------------|
| 1    | Perno - Stud                                 | A193 - B8           |
| 2    | Tuerca - Nut                                 | A194 - 8            |
| 3    | Tapón - Cap                                  | A351 CF8M           |
| 4    | Asiento - Seat                               | PTFE + 15% FV/GF    |
| 5    | Bola - Ball                                  | SS316               |
| 6    | Junta - Gasket                               | PTFE                |
| 7    | Eje - Stem                                   | A276 316            |
| 8    | Cuerpo - Body                                | A351 CF8M           |
| 9    | Junta del eje - Stem Gasket                  | PTFE                |
| 10   | Dispositivo antiestático - Antistatic Device | A276 304            |
| 11   | Muelle mariposa - Butterfly Spring           | A276 304            |
| 12   | Tapón antipérdida - Anti Loosing Cap         | A276 304            |
| 13   | Maneta - Handle                              | A276 201            |
| 14   | Seguro - Handle Lock                         | A276 201            |
| 15   | O-ring                                       | Viton               |
| 16   | Junta - Gasket                               | PTFE                |
| 17   | Anilla - Packing Gland                       | A276 304            |
| 18   | Tuerca del eje - Stem Nut                    | A194 - 8            |
| 19   | Sistema frenado - Stop Pin                   | A276 304            |

INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

| REF      | DN  | Ød (mm) | ØR (mm) | Ød1 (mm) | ØD (mm) | H1 (mm) | H (mm) | h (mm) | L (mm) | W (mm) | T (mm) | f (mm) | Taladro Bolting N-Ø(mm) | □P (mm) |
|----------|-----|---------|---------|----------|---------|---------|--------|--------|--------|--------|--------|--------|-------------------------|---------|
| V5104015 | 15  | 15      | 45      | 65       | 95      | 48,5    | 76     | 8,5    | 115    | 110    | 14     | 2      | 4 - Ø14                 | 9       |
| V5104020 | 20  | 20      | 58      | 75       | 105     | 53,5    | 81     | 8,5    | 120    | 110    | 16     | 2      | 4 - Ø14                 | 9       |
| V5104025 | 25  | 25      | 68      | 85       | 115     | 59      | 90     | 10     | 125    | 140    | 16     | 2      | 4 - Ø14                 | 11      |
| V5104032 | 32  | 32      | 78      | 100      | 140     | 71      | 102    | 10     | 130    | 140    | 16     | 2      | 4 - Ø18                 | 11      |
| V5104040 | 40  | 38      | 88      | 110      | 150     | 77,5    | 114,5  | 14     | 140    | 185    | 16     | 3      | 4 - Ø18                 | 14      |
| V5104050 | 50  | 50      | 102     | 125      | 165     | 85      | 122    | 14     | 150    | 185    | 18     | 3      | 4 - Ø18                 | 14      |
| V5104065 | 65  | 65      | 122     | 145      | 185     | 100     | 168    | 16     | 170    | 305    | 18     | 3      | 4 - Ø18                 | 17      |
| V5104080 | 80  | 78      | 138     | 160      | 200     | 110     | 178    | 16     | 180    | 305    | 20     | 3      | 8 - Ø18                 | 17      |
| V5104100 | 100 | 100     | 158     | 180      | 220     | 130     | 198    | 18     | 190    | 305    | 20     | 3      | 8 - Ø18                 | 19      |
| V5104125 | 125 | 125     | 188     | 210      | 250     | 165     | 234    | 23     | 325    | 500    | 22     | 3      | 8 - Ø18                 | 22      |
| V5104150 | 150 | 150     | 212     | 240      | 285     | 190     | 250    | 28     | 350    | 645    | 22     | 3      | 8 - Ø22                 | 27      |



**CARACTERÍSTICAS BÁSICAS:**

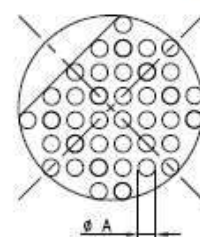
- Presión de trabajo: PN16
- Temperatura de trabajo: -10 °C a 200 °C
- Bridas según: UNE-EN 1092-2 PN10/16
- Distancia entre bridas: DIN 3202-1 F1 (UNE-EN 558-1 Serie 1)
- Recubrimiento interior y exterior "EPOXY", 250
- Pruebas unitarias presión según: UNE-EN 12266-1
- Diseño unidireccional.
- Instalación horizontal o vertical.

**BASIC FEATURES:**

- Working pressure: PN16
- Working temperature: -10 °C a 200 °C
- Flange dimensions: EN 1092-2 PN10/16
- Face to face dimension: DIN3202-1 F1 (EN 558-1 Serie 1)
- Inside and outside "EPOXY" poder coating, 250
- Unit pressure tests: en 12266-1
- Unidirectional design.
- Horizontal or vertical working position.

| Descripción Componentes- Components Description |                                                     |
|-------------------------------------------------|-----------------------------------------------------|
| Descripción                                     | Material                                            |
| Cuerpo – Body                                   | Fundición Gris- Grey Cast Iron GG25 (EN-GLJ-250)    |
| Malla – Screen                                  | Acero Inoxidable – Stainless Steel AISI 304         |
| Junta – Gasket                                  | Grafito – Graphite                                  |
| Tapa – Bonnet                                   | Fundición Gris- Grey Cast Iron GG25 (EN-GLJ-250)    |
| Tapón – Plug                                    | Fundición Nodular-Ductil Iron GGG40 (EN-GJS-400-15) |
| Tornillos - Bolts                               | Acero Carbono – Carbon Steel                        |

MALLA - SCREEN



| Información Técnica – Technical Information |     |                          |           |           |                                |           |           |                |            |           |                                     |
|---------------------------------------------|-----|--------------------------|-----------|-----------|--------------------------------|-----------|-----------|----------------|------------|-----------|-------------------------------------|
| REF                                         | DN  | DIMENSIONES - DIMENSIONS |           |           |                                |           |           |                |            |           | Peso Aprox<br>Weight approx.<br>(g) |
|                                             |     | L<br>(mm)                | H<br>(mm) | A<br>(mm) | Brida/Flange EN 1092-2 PN10/16 |           |           |                |            |           |                                     |
|                                             |     |                          |           |           | PN                             | D<br>(mm) | K<br>(mm) | n - Ød<br>(mm) | D2<br>(mm) | d<br>(mm) |                                     |
| FILYB040                                    | 40  | 200                      | 118       | 1,5       | 10/16                          | 150       | 110       | 4 – 19         | 88         | 18        | 7,2                                 |
| FILYB050                                    | 50  | 230                      | 178       | 1,5       | 10/16                          | 165       | 125       | 4 – 19         | 102        | 20        | 11,5                                |
| FILYB265                                    | 65  | 290                      | 211       | 1,5       | 10/16                          | 185       | 145       | 4 – 19         | 122        | 20        | 16,5                                |
| FILYB080                                    | 80  | 310                      | 202       | 1,5       | 10/16                          | 200       | 160       | 8 – 19         | 138        | 22        | 18,9                                |
| FILYB100                                    | 100 | 350                      | 226       | 3         | 10/16                          | 220       | 180       | 8 – 19         | 158        | 24        | 24,7                                |
| FILYB125                                    | 125 | 400                      | 264       | 3         | 10/16                          | 250       | 210       | 8 – 19         | 188        | 26        | 36,1                                |
| FILYB150                                    | 150 | 480                      | 309       | 3         | 10/16                          | 285       | 240       | 8 – 23         | 212        | 26        | 50,2                                |
| FILYB108                                    | 200 | 600                      | 410       | 3         | 10                             | 340       | 295       | 8 – 23         | 268        | 30        | 88,8                                |
| FILYB200                                    | 200 | 600                      | 410       | 3         | 16                             | 340       | 295       | 12 – 23        | 268        | 30        | 88,8                                |
| -                                           | 250 | 730                      | 444       | 3         | 10                             | 395       | 350       | 12 – 23        | 320        | 32        | 135,5                               |
| FILYB250                                    | 250 | 730                      | 444       | 3         | 16                             | 405       | 355       | 12 – 28        | 320        | 32        | 135,5                               |

**MATERIAL:** BRONCE

**PRESIÓN NOMINAL:** PN16

### Fª26-CI

Válvula Contraincendios, Paso Recto, Rosca Hembra  
Entrada y Conexión Tipo "A" Barcelona.

| DN | REF      | A   | B   | C  | E  | G   |
|----|----------|-----|-----|----|----|-----|
| 40 | VC2R1M4  | 81  | 121 | 45 | 55 | 80  |
| 50 | VCI2R024 | 92  | 136 | 45 | 63 | 80  |
| 65 | VCI2R2M4 | 100 | 178 | 65 | 80 | 140 |

### Fª27-CI

Válvula Contraincendios, Paso Angular, Rosca Hembra  
Entrada y Conexión Tipo "B" Barcelona.

| DN | REF      | A   | B   | C  | E  | G   |
|----|----------|-----|-----|----|----|-----|
| 40 | VCI2B1M4 | 81  | 121 | 45 | 55 | 80  |
| 50 | VCI2B024 | 81  | 121 | 45 | 78 | 80  |
| 65 | VCI2B2M4 | 100 | 178 | 65 | 74 | 140 |

### Fª28-CI

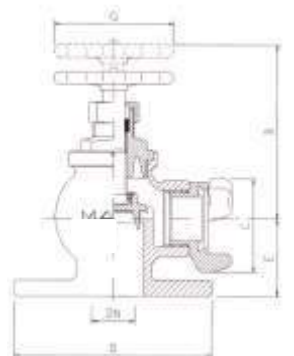
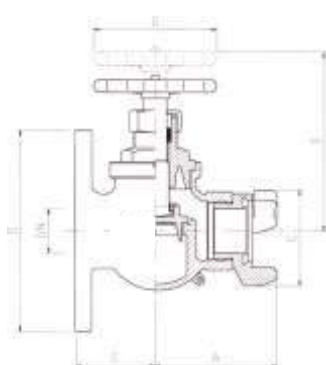
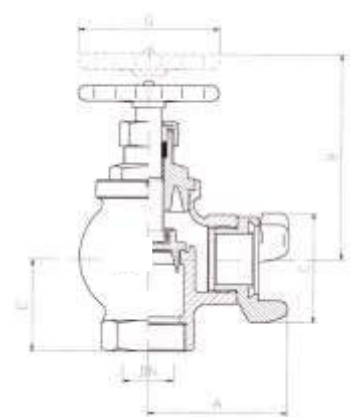
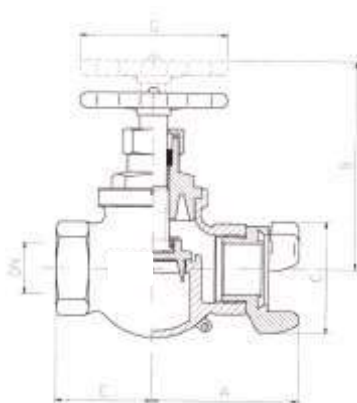
Válvula Contraincendios, Paso Recto, Brida Entrada y  
Conexión Tipo "C" Barcelona.

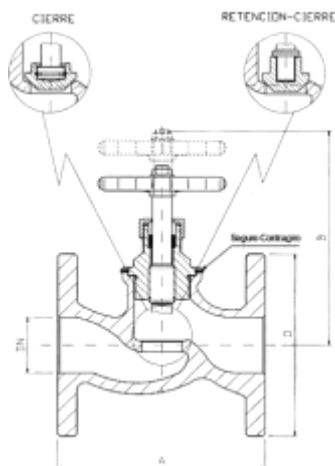
| DN | REF      | A   | B   | C  | E   | D  | G   |
|----|----------|-----|-----|----|-----|----|-----|
| 40 | VCIR4045 | 82  | 126 | 45 | 150 | 62 | 100 |
| 50 | VCIR5045 | 94  | 142 | 45 | 165 | 64 | 100 |
| 65 | VCIR6545 | 103 | 169 | 65 | 185 | 72 | 140 |

### Fª29-CI

Válvula Contraincendios, Paso Angular, Brida Entrada y  
Conexión Tipo "D" Barcelona.

| DN | REF      | B   | C  | D   | E  | G   |
|----|----------|-----|----|-----|----|-----|
| 40 | VCIA4045 | 120 | 45 | 150 | 64 | 100 |
| 50 | VCIA5045 | 135 | 45 | 165 | 73 | 100 |
| 65 | VCIA6565 | 178 | 65 | 185 | 81 | 140 |





| REF.     | DN | A   | B   | C   |
|----------|----|-----|-----|-----|
| -        | 6  | 80  | 97  | 75  |
| -        | 8  | 80  | 97  | 80  |
| -        | 10 | 108 | 110 | 90  |
| V210B415 | 15 | 108 | 110 | 95  |
| -        | 20 | 117 | 137 | 105 |
| -        | 25 | 127 | 136 | 115 |
| V2105R1C | 32 | 145 | 148 | 140 |
| V2105R1M | 40 | 162 | 178 | 150 |
| -        | 50 | 181 | 179 | 165 |

Válvula de Asiento, Paso Recto F<sup>a</sup>210- A, Tapa Roscada, Extremos Bidas

**MATERIALES:**

- Bronce
- Acero Inoxidable

**PRESIÓN NOMINAL:**

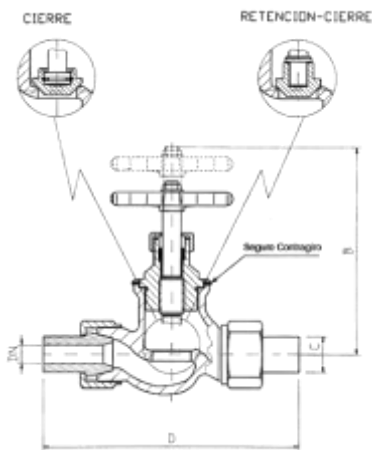
- PN16
- PN40

**NORMA:**

- Retención – Cierre: NAE – 4511516
- Cierre: NAE – 4511416
- DIN-86511

**NOTAS:**

- Sobre demanda se suministran con Bidas ASA
- También se suministran con Bidas dimensionadas y taladradas según DIN PN06 Y PN25.
- Empaquetadura de Teflón.



| REF.     | DN | A   | B    | C   |
|----------|----|-----|------|-----|
| -        | 6  | 97  | 10,2 | 116 |
| -        | 8  | 97  | 13,5 | 126 |
| -        | 10 | 97  | 17,2 | 140 |
| -        | 12 | 97  | 18   | 156 |
| V2104R15 | 15 | 110 | 21,3 | 166 |
| V2104R20 | 20 | 133 | 26,9 | 190 |
| V2105R25 | 25 | 133 | 33,7 | 206 |
| V2105R32 | 32 | 150 | 42,4 | 230 |
| -        | 40 | 180 | 48,3 | 264 |
| -        | 50 | 180 | 60   | 291 |

Válvula de Asiento, Paso Recto F<sup>a</sup>210, Tapa Roscada, Extremos Racores

**MATERIALES:**

- Bronce
- Acero Inoxidable

**PRESIÓN NOMINAL:**

- PN40

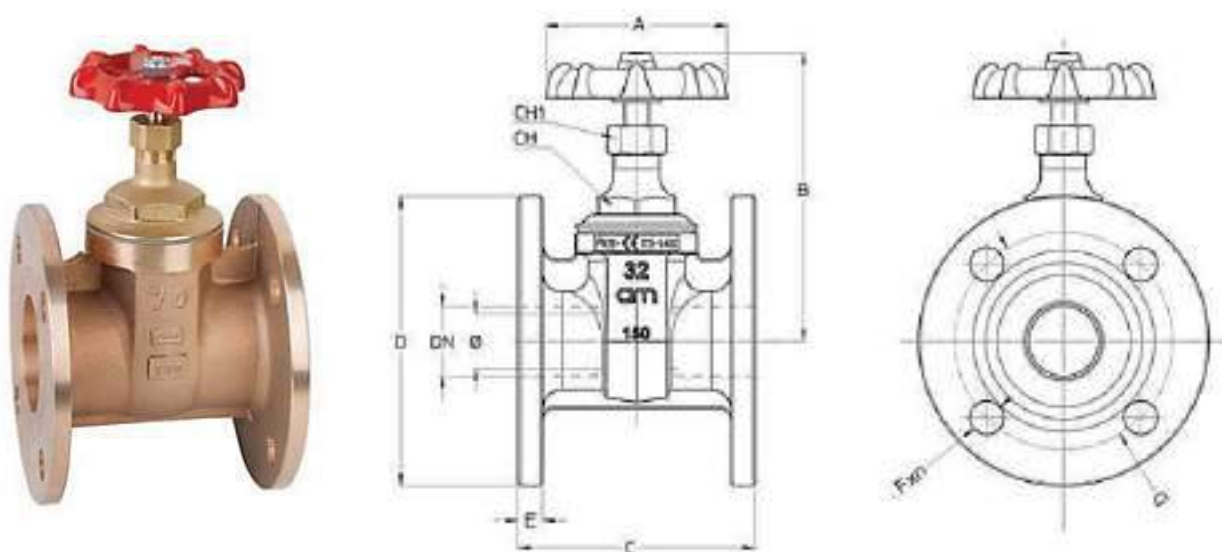
**NORMA:**

- Retención – Cierre: NAE – 4514540
- Cierre: NAE – 4514440
- DIN-86511

**NOTAS:**

- Las boquillas y tuercas se suministran de Ac. L salvo indicación del cliente.
- Empaquetadura de Teflón.
- Sobre demanda se suministran con acoplamientos flexibles, según NAE – 4515010 Y NAE - 4515110.

Estas válvulas de compuerta están fabricadas según un rígido sistema de "CONTROL DE CALIDAD" conforme a la Norma BS 5750 ISO 9002, siguiendo y registrando dicho control en todas las fases de fabricación. Las compuertas son aptas para usos de vapor, agua, aceite, gas, etc. Las válvulas de compuerta PN 16 Y PN 20 son ampliamente utilizadas en las instalaciones hidráulicas, de calefacción, vapor y son aptas para petróleos y otros hidrocarburos

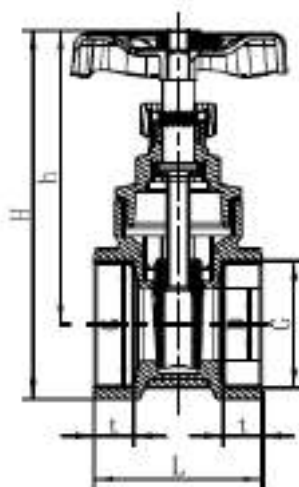


| REF       | V161500M | V1615034 | V1615001 | V161501C | V161501M | V1615002 | -      | V1615003 | V1615004 |
|-----------|----------|----------|----------|----------|----------|----------|--------|----------|----------|
| Nom Size. | 1/2      | 3/4      | 1        | 1 1/4    | 1 1/2    | 2        | 2 1/2  | 3        | 4        |
| mm        | 15       | 20       | 25       | 32       | 40       | 50       | 70     | 80       | 100      |
| Grms      | 1198     | 1600     | 2155     | 3010     | 3150     | 4530     | 7415   | 8650     | 13655    |
| A         | 55       | 60       | 65       | 75       | 80       | 90       | 110    | 120      | 140      |
| B         | 84       | 95       | 102      | 120      | 134      | 150      | 185    | 205      | 250      |
| C         | 68       | 85       | 89       | 97,5     | 113      | 124      | 153,5  | 158      | 169,5    |
| D         | 95       | 105      | 119      | 138,5    | 147      | 165      | 183,5  | 199      | 229      |
| E         | 9        | 9        | 10       | 10       | 10,5     | 10,5     | 12     | 12       | 15       |
| F x n     | 14 X 4   | 14 x 4   | 14 x 4   | 18 x 4   | 18 x 4   | 18 x 4   | 18 x 8 | 18 x 8   | 18 x 8   |
| G         | 65       | 75       | 85       | 110      | 125      | 125      | 145    | 160      | 180      |
| CH        | 24       | 30       | 32       | 39       | 47       | 47       | 55     | 66       | 84       |
| CH1       | 18       | 18       | 18       | 23       | 25       | 25       | 30     | 30       | 37       |

\*Presión nominal: PN16 (DN15 → DN100)

\*Temperatura: -10 +170 °C (DN15 → DN100)





#### CARACTERÍSTICAS BÁSICAS:

- Válvula de Fondo H/H.
- Cuerpo, tapa y compuerta de latón según UNE-EN 12165.
- Volante de Acero.
- Anillo Prensado de PTFE
- Presión máxima de ejercicio: PN 16.
- Temperatura de servicio -10°C A 80°C.
- Extremos rosca hembra según UNE-EN ISO 228-1.
- Atestación de conformidad sanitaria A.C.S N°14 ACC NY 356.
- Montaje Vertical, Horizontal u Oblicuo.
- Pruebas unitarias de presión.
- Diseño bidireccional.
- Unidireccional.

#### BASIC FEATURES:

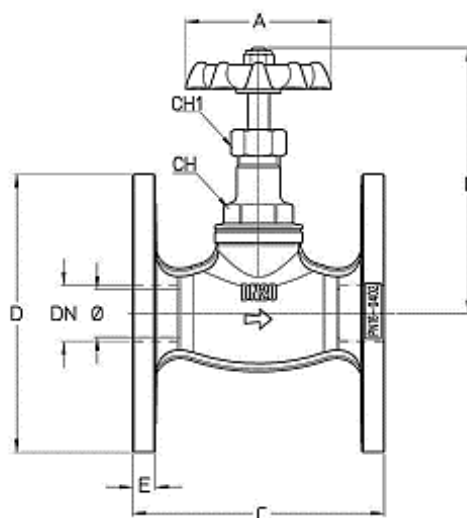
- Gate valve F/F.
- Brass body, Bonnet and gate according to EN12165.
- Steel Handle
- PTFE Packing Ring.
- Maximun working pressure: PN16.
- Working temperature: -10°C to 80°C.
- Female thread ends according to EN ISO 228-1.
- Certificate of sanitary conformity A.C.S N°14 ACC NY 356.
- It can work in horizontal, vertical or oblique position.
- Unit pressure test.
- Bidirectional design
- Unidirectional design.

#### Información Técnica – Technical Information

| G (Inches) | REF.     | PN | Dimensiones - Dimensions |        |        |        |        | Peso Aprox /<br>Weight aprox. (g) |
|------------|----------|----|--------------------------|--------|--------|--------|--------|-----------------------------------|
|            |          |    | D (mm)                   | L (mm) | H (mm) | h (mm) | t (mm) |                                   |
| 3/8"       | V1590538 | 16 | 13                       | 38     | 79     | 66     | 10     | 196                               |
| 1/2"       | V159050M | 16 | 13                       | 38     | 79     | 66     | 10     | 180                               |
| 3/4"       | V1590534 | 16 | 15                       | 41     | 84     | 67     | 11     | 206                               |
| 1"         | V1590501 | 16 | 19                       | 45     | 96     | 77     | 11     | 288                               |
| 1 1/4"     | V159051C | 16 | 26                       | 51     | 116    | 91     | 13     | 445                               |
| 1 1/2"     | V159051M | 16 | 33                       | 51     | 124    | 96     | 14     | 565                               |
| 2"         | V1590502 | 16 | 42                       | 61     | 156    | 119    | 16     | 970                               |
| 2 1/2"     | V159052M | 16 | 60                       | 66     | 204    | 159    | 17     | 1740                              |
| 3"         | V1590503 | 16 | 68                       | 84     | 237    | 185    | 23     | 2465                              |
| 4"         | V1590504 | 16 | 93                       | 81     | 295    | 227    | 19     | 4305                              |

Estas válvulas son aptas para vapor agua, aceites, petróleos y gas.

Las válvulas PN16 Y PN20 son ampliamente utilizados en instalaciones hidráulicas y calefacción, vapor, líquidos ligeros, gasolinas, petróleos y otros hidrocarburos donde se requiera una regulación eficiente.

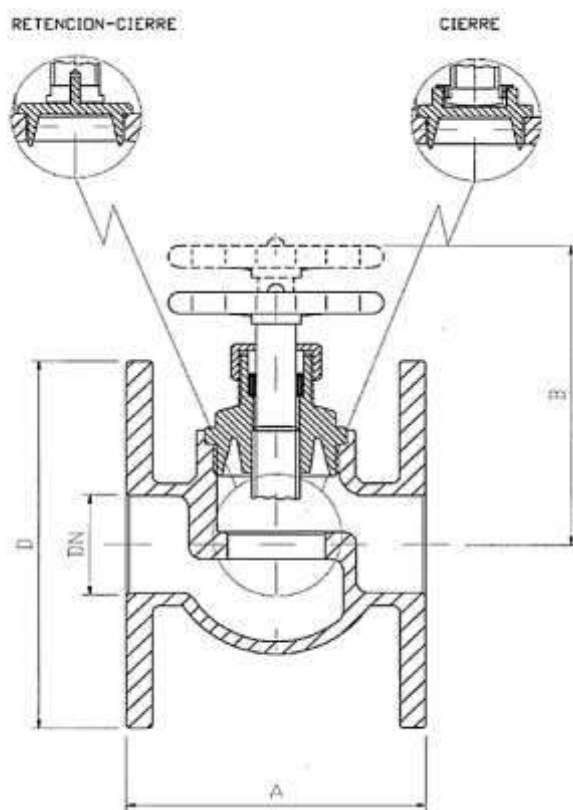


#### INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| DN     | MN       | MM  | Grms  | A   | B     | C     | D     | E   | CH | CH1 |
|--------|----------|-----|-------|-----|-------|-------|-------|-----|----|-----|
| 1/2"   | V028SM0M | 15  | 1380  | 55  | 92,5  | 82,5  | 94    | 8   | 23 | 18  |
| 3/4"   | V028SM34 | 20  | 1710  | 55  | 100   | 95    | 105   | 8   | 23 | 18  |
| 1"     | V028SM01 | 25  | 2350  | 65  | 111   | 104   | 119   | 9,5 | 28 | 21  |
| 1 1/4" | V028SM1C | 32  | 3350  | 65  | 113,5 | 113   | 138,5 | 9,5 | 33 | 23  |
| 1 1/2" | V028SM1M | 40  | 4580  | 80  | 135   | 133,5 | 147   | 11  | 37 | 25  |
| 2"     | V028SM02 | 50  | 5930  | 80  | 155   | 154   | 163   | 11  | 45 | 27  |
| 2 1/2" | V028SM2M | 65  | 9010  | 120 | 199   | 170   | 185   | 13  | 55 | 37  |
| 3"     | V028SM03 | 80  | 11650 | 120 | 226   | 180   | 200   | 13  | 63 | 39  |
| 4"     | V028SM04 | 100 | 18110 | 175 | 287,5 | 200   | 230   | 17  | 80 | 50  |

#### Opciones bridas:

- UNI EN 1092
- BS 10 tablas D – E – F
- ASA 150
- ANSI B16.5



## MATERIALES:

Bronce

## PRESIÓN NOMINAL: PN16

-Según fabrica:

\*Retención -cierre

\*Cierre

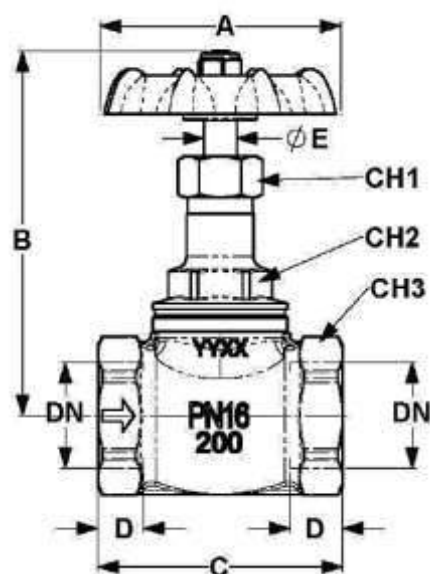
-Sobre demanda se suministra en solo retención.(obturador ascendente sin volante)

### INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF      | DN | A   | B (Aprox) | D   |
|----------|----|-----|-----------|-----|
| -        | 10 | 63  | 79        | 90  |
| V0286R0M | 15 | 72  | 81        | 95  |
| V0286R34 | 20 | 80  | 96        | 105 |
| V0286R01 | 25 | 87  | 99        | 115 |
| V0286R1C | 32 | 100 | 116       | 140 |
| V0286R1M | 40 | 120 | 146       | 150 |
| V0286R02 | 50 | 136 | 143       | 165 |
| V0286R2M | 65 | 170 | 179       | 185 |

Estas válvulas PN16 y PN20 están fabricadas según la norma EN ISO 9001 en una aleación de bronce, y se someten a ensayos según la norma EN 12266-1.

Se utilizan en actividades agrícolas o industriales donde se requiere algún tipo de regulación de calefacción o climatización (hidráulicas), también para usos higiénico-sanitarias y aire comprimido, para redes de distribución de aceites o hidrocarburos y en general para cualquier tipo de fluido que no sea agresivo.



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

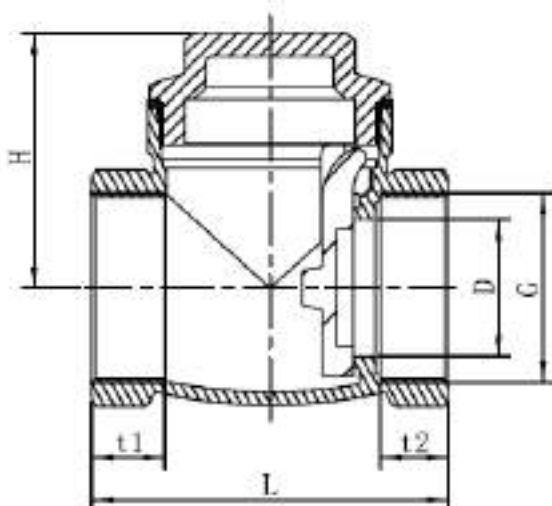
| DN     | RC<br>MN             | MM  | A     | B   | C     | D     | E     | CH | CH1 |
|--------|----------------------|-----|-------|-----|-------|-------|-------|----|-----|
| 1/2"   | V026R50M<br>V026050M | 15  | 1380  | 55  | 92,5  | 82,5  | 94    | 23 | 18  |
| 3/4"   | V026R534<br>V0260534 | 20  | 1710  | 55  | 100   | 95    | 105   | 23 | 18  |
| 1"     | V026R501<br>V0260501 | 25  | 2350  | 65  | 111   | 104   | 119   | 28 | 21  |
| 1 1/4" | V026R51C<br>V026051C | 32  | 3350  | 65  | 113,5 | 113   | 138,5 | 33 | 23  |
| 1 1/2" | V026R51M<br>V026051M | 40  | 4580  | 80  | 135   | 133,5 | 147   | 37 | 25  |
| 2"     | V026R502<br>V0260502 | 50  | 5930  | 80  | 155   | 154   | 163   | 45 | 27  |
| 2 1/2" | V026R52M<br>V026052M | 65  | 9010  | 120 | 199   | 170   | 185   | 55 | 37  |
| 3"     | V026R503<br>V0260503 | 80  | 11650 | 120 | 226   | 180   | 200   | 63 | 39  |
| 4"     | V026R504<br>V0260504 | 100 | 18110 | 175 | 287,5 | 200   | 230   | 80 | 50  |

**Clase de presión:** PN16

**Temperatura:** de -10 a 170 °C

Son válvulas de funcionamiento automático que consiente el paso del fluido en un único sentido. La velocidad del fluido abre y mantiene abierta la válvula mientras existe presión o peso con una baja pérdida de carga e imposibilidad de retorno de fluido.

Son aptas para vapor, agua fría y caliente, aceites, petróleos y gas.



#### CARACTERÍSTICAS BÁSICAS:

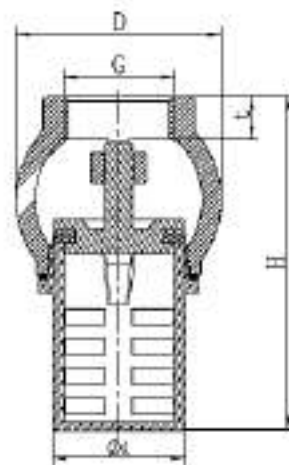
- Válvula de Fondo H /H.
- Cuerpo, tapa y disco de latón según UNE-EN 12165.
- Presión máxima de ejercicio: PN 16-10-8 (ver tabla)
- Temperatura de servicio -10°C A 100°C.
- Extremos rosca hembra según UNE-EN ISO 228-1.
- Pruebas unitarias de presión.
- Unidireccional.
- Montaje horizontal o vertical ascendente

#### BASIC FEATURES:

- Swing check valve F/F.
- Brass body, cap and disc according to EN12165.
- Maximum working pressure: PN16-10-8 (see table).
- Working temperature: -10°C to 100°C.
- Female thread ends according to EN ISO 228-1.
- Unit pressure test.
- Unidirectional design.
- Horizontal or vertical mounting for rising fluid Flow.

| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |          |    |                        |        |       |        |         |                                   |
|--------------------------------------------|----------|----|------------------------|--------|-------|--------|---------|-----------------------------------|
| G<br>(Inches)                              | REF      | PN | DIMENSIONES- DIMESIONS |        |       |        |         | Peso aprox<br>Weight aprox<br>(g) |
|                                            |          |    | D(mm)                  | L (mm) | H(mm) | t1(mm) | t2 (mm) |                                   |
| 1/2"                                       | V037500M | 16 | 14                     | 48     | 33    | 12     | 12      | 170                               |
| 3/4"                                       | V0375034 | 16 | 19                     | 52     | 41    | 10     | 11      | 240                               |
| 1"                                         | V0375001 | 16 | 24                     | 63     | 45    | 13     | 13      | 340                               |
| 1 1/4"                                     | V037501C | 10 | 32                     | 74     | 52    | 15     | 15      | 555                               |
| 1 1/2"                                     | V037501M | 10 | 32                     | 80     | 54    | 16     | 17      | 625                               |
| 2"                                         | V0375002 | 10 | 48                     | 98     | 66    | 16     | 17      | 1180                              |
| 2 1/2"                                     | V037502M | 8  | 60                     | 120    | 80    | 22     | 22      | 1790                              |
| 3"                                         | V0375003 | 8  | 70                     | 135    | 92    | 24     | 24      | 2880                              |
| 4"                                         | V0375004 | 8  | 86                     | 160    | 103   | 27     | 27      | 4715                              |





#### CARACTERÍSTICAS BÁSICAS:

- Válvula de Fondo H.
- Cuerpo, disco, guía y filtro de latón según UNE-EN 12165.
- Presión máxima de ejercicio: PN 16.
- Temperatura de servicio -10°C A 80°C.
- Extremo rosca hembra según UNE-EN ISO 228-1.
- Montaje Vertical.
- Pruebas unitarias de presión.
- Estanqueidad absoluta.
- Unidireccional.

#### BASIC FEATURES:

- Foot valve F.
- Brass body, disc, stem and strainer according to EN12165.
- Maximun working pressure: PN16.
- Working temperature: -10°C to 80°C.
- Female thread end according to EN ISO 228-1.
- It work in vertical position.
- Unit pressure test.
- Absolute watertightness.
- Unidirectional design.

| Descripción Componentes – Components Description |                     |
|--------------------------------------------------|---------------------|
| Descripción - Description                        | Material - Material |
| Cuerpo - Body                                    | Latón- Brass CW614N |
| Filtro - Strainer                                | Latón- Brass CW614N |
| Cierre - Seat                                    | NBR                 |

| Información Técnica – Technical Information |          |    |                          |        |        |        |                                   |
|---------------------------------------------|----------|----|--------------------------|--------|--------|--------|-----------------------------------|
| G<br>(Inches)                               | REF.     | PN | Dimensiones - Dimensions |        |        |        | Peso Aprox /<br>Weight aprox. (g) |
|                                             |          |    | D (mm)                   | H (mm) | t (mm) | A (mm) |                                   |
| 1/2"                                        | -        | 16 | 38                       | 62     | 8      | 25     | 160                               |
| 3/4"                                        | V0825034 | 16 | 44                       | 68     | 10     | 28     | 200                               |
| 1"                                          | V0825001 | 16 | 48                       | 76     | 12     | 31     | 250                               |
| 1 1/4"                                      | V082501C | 16 | 57                       | 95     | 13     | 38     | 395                               |
| 1 1/2"                                      | V082501M | 16 | 66                       | 102    | 13     | 46     | 540                               |
| 2"                                          | V0825002 | 16 | 77                       | 116    | 14     | 58     | 835                               |
| 2 1/2"                                      | V082502M | 16 | 86                       | 140    | 14     | 59     | 1025                              |
| 3"                                          | V0825003 | 16 | 111                      | 149    | 19     | 78     | 1640                              |
| 4"                                          | -        | 16 | 143                      | 186    | 17     | 94     | 2780                              |

El modelo RM es una válvula de retención de asiento inclinado y cierre metal / metal, de aplicación principal en los sectores de tratamientos de agua, agroalimentario, papelería, etc

**Las características principales que presenta son:**

- Válida para todo tipo de bridas estándar
- Entrecaras reducido
- Excelente estanqueidad de acuerdo a API 598
- Baja pérdida de carga y apertura a baja presión
- Debido al asiento inclinado el tiempo de cierre es reducido minimizando el golpe de ariete
- Posibilidad de instalación de un muelle auxiliar que reduzca tiempo de cierre

**Presiones:**

40 a DN 300: 40 bar  
DN 350 a DN 600: 25 bar  
DN 700 a DN 900: 10 bar

**Bridas estándar:**

EN1092 PN 10/16/25/40  
ANSI B16.5 (clase 150)  
Otras bridas bajo consulta



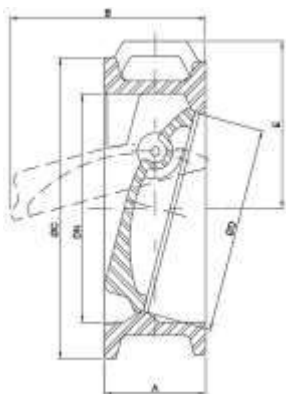
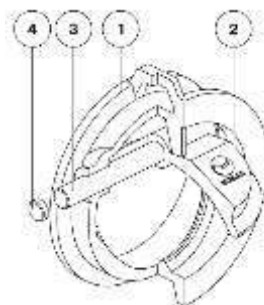
Fª170 SIN MANIOBRA

Entrecaras sigue la norma EN 558-1 (Serie 16)

De acuerdo a las directivas:

DIR 2014/68/EU (PED) Categoría I Modulo A Fluido Grupo 2(b). Categorías II / III bajo consulta.

| COMPONENTE | VERSIÓN INOX |
|------------|--------------|
| 1-Cuerpo   | CF8M         |
| 2-Disco    | CF8M         |
| 3-Eje      | AISI 316     |
| 4-Tapón    | AISI 316     |



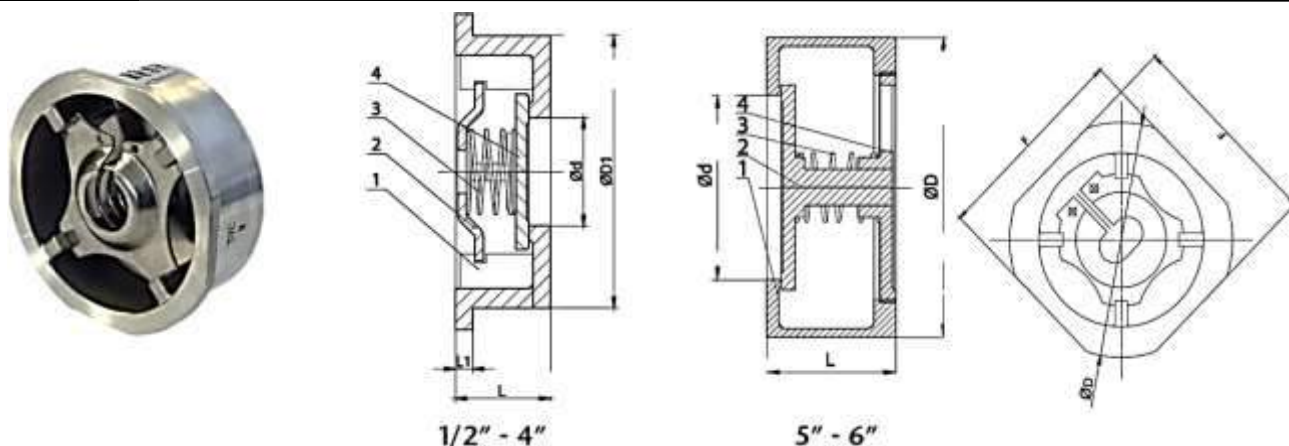
Fª170 CON MANIOBRA

| REF          |              | DN  | A   | B     | ØC    | ØD  | -     | Peso (Kg) |
|--------------|--------------|-----|-----|-------|-------|-----|-------|-----------|
| CON MANIOBRA | SIN MANIOBRA |     |     |       |       |     |       |           |
| V170C51M     | V170S51M     | 40  | 33  | 45    | 84    | 34  | -     | 0,8       |
| V170C502     | V170S502     | 50  | 43  | 54    | 102,5 | 44  | -     | 1         |
| V170C52M     | V170S52M     | 65  | 46  | 64    | 121,5 | 58  | -     | 2         |
| V170C503     | V170S503     | 80  | 64  | 85    | 134,5 | 72  | -     | 3         |
| V170C504     | V170S504     | 100 | 64  | 98    | 162   | 90  | -     | 4,5       |
| V170C505     | V170S505     | 125 | 70  | 116,5 | 192   | 112 | -     | 6,5       |
| V170C506     | V170S506     | 150 | 76  | 136   | 219   | 135 | -     | 7,5       |
| V170C508     | V170S508     | 200 | 89  | 222,5 | 273   | 180 | 155   | 15        |
| V170C510     | V170S510     | 250 | 114 | 221   | 329   | 225 | 182,5 | 26,5      |
| V170C512     | V170S512     | 300 | 114 | 251   | 378   | 270 | 210   | 33,5      |

VÁLVULA INOX RETENCIÓN F<sup>3</sup>160 DISCO  
TIPO WAFER PN63  
WAFER TYPE CHECK F<sup>3</sup>160 VALVE PN63

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



CARACTERÍSTICAS BÁSICAS:

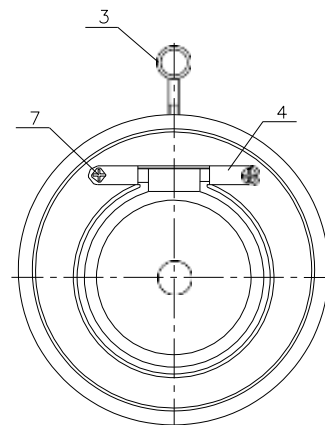
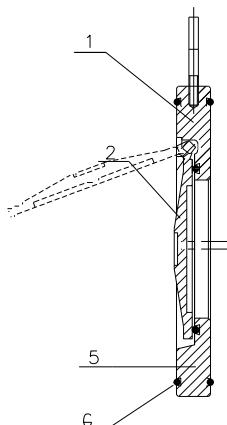
- Presión de trabajo: PN 63.
- Temperatura de trabajo: -20 °C a 425 °C.
- Instalación en cualquier posición siempre respetando la dirección del fluido indicada por la flecha.
- Longitud entre caras según UNE-EN 558 serie 49 (salvo DN 125 y 150).
- Tipo muelle.
- Construidas según: ANSI B 16.34.
- Inspección y pruebas según: API 598.

DESCRIPCION COMPONENTES- COMPONENTS DESCRIPTION

| ÍTEM | Descripción -Description       | Material-Material                |
|------|--------------------------------|----------------------------------|
| 1    | Cuerpo- Body                   | Acero Inoxidable CF8M (AISI 316) |
| 2    | Soporte Muelle- Spring Support | A 276 304                        |
| 3    | Muelle- Spring                 | A 276 304                        |
| 4    | Disco- Disc                    | A 276 316/ A351 CF8M             |

INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA<br>SIZE<br>(INCHES) | COD      | DIMENSIONES- DIMENSIONS |       |        |        |        |       | Peso<br>aprox<br>Weight<br>aprox<br>(g) |
|----------------------------|----------|-------------------------|-------|--------|--------|--------|-------|-----------------------------------------|
|                            |          | d (mm)                  | D(mm) | F (mm) | D1(mm) | L1(mm) | L(mm) |                                         |
| 1/2"                       | V160R50M | 15                      | 53    | 46     | 43     | 4      | 16,5  | 130                                     |
| 3/4"                       | V160R534 | 20                      | 63    | 55     | 53     | 5      | 19,5  | 220                                     |
| 1"                         | V160R501 | 25                      | 73    | 65     | 63     | 4      | 22    | 290                                     |
| 1 1/4"                     | V160R51C | 32                      | 84    | 78     | 75     | 6      | 28    | 480                                     |
| 1 1/2"                     | V160R51M | 40                      | 94    | 88     | 86     | 6      | 32    | 670                                     |
| 2"                         | V160R502 | 50                      | 107   | 98     | 94     | 7      | 40    | 960                                     |
| 2 1/2"                     | V160R52M | 65                      | 126   | 118    | 115    | 7      | 46    | 1540                                    |
| 3"                         | V160R503 | 80                      | 144   | 134    | 130    | 8      | 50    | 2010                                    |
| 4"                         | V160R504 | 100                     | 164   | 154    | 152    | 9      | 60    | 3100                                    |
| 5"                         | V160R505 | 125                     | 190   | -      | -      | -      | 82    | 5870                                    |
| 6"                         | V160R506 | 150                     | 217   | -      | -      | -      | 102   | 8390                                    |



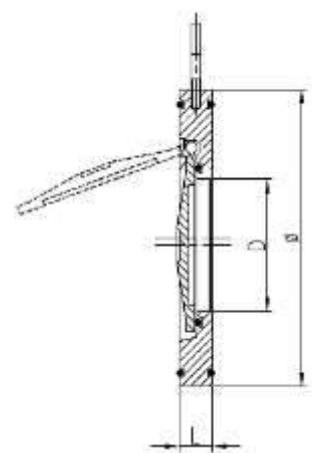
## CARACTERÍSTICAS BÁSICAS

- Presión de trabajo: PN 16.
- Temperatura de trabajo: -10 °C a 150 °C.
- Adaptables a bridas DIN 2501 (UNE-EN 1092-2 PN 16).
- Mínima pérdida de carga.
- Diseño unidireccional.
- Instalación horizontal o vertical.

## BASIC FEATURES

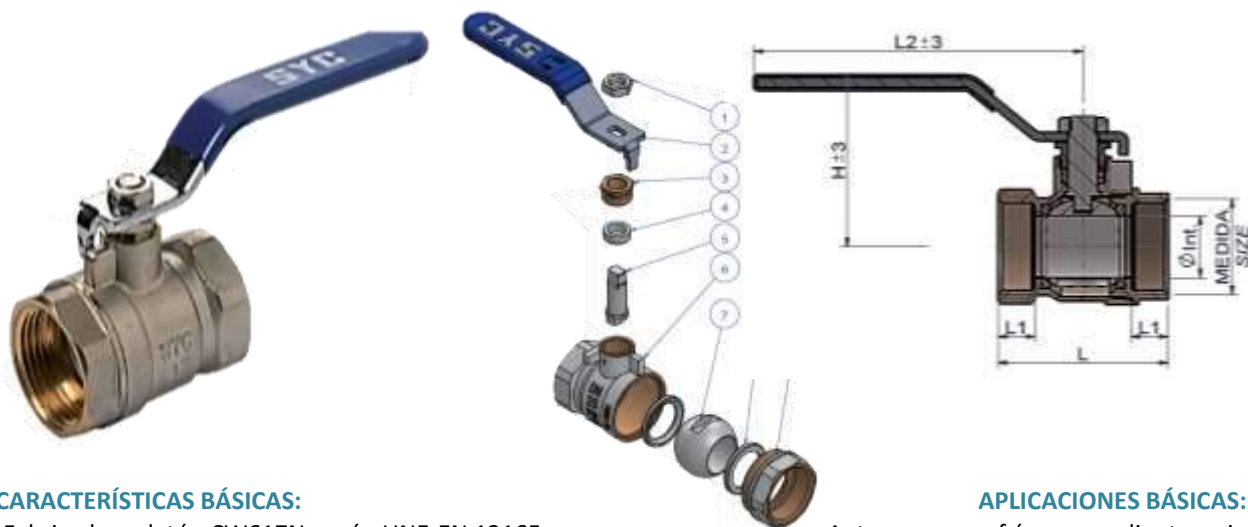
- Working pressure: PN16
- Working temperature: -10 °C a 150 °C.
- Suitable for flanges DIN 2501 (UNE-EN 1092-2 PN 16).
- Minimum pressure drop
- Unidirectional design.
- Horizontal or vertical working position.

| DESCRIPCIÓN COMPONENTES - COMPONENTS DESCRIPTION |                           |                                                    |
|--------------------------------------------------|---------------------------|----------------------------------------------------|
| Ítem                                             | Descripción - Description | Material - Material                                |
| 1                                                | Cuerpo - Body             | Acero Inoxidable - Stainless Steel AISI 316        |
| 2                                                | Clapeta - Disc            | Acero Inoxidable - Stainless Steel AISI 316 (CF8M) |
| 3                                                | Anillo Soporte - Ring     | Acero Inoxidable - Stainless Steel AISI 316        |
| 4                                                | Pasador - Hanger          | Acero Inoxidable - Stainless Steel AISI 316        |
| 5                                                | Junta Tórica - O-Ring     | Viton                                              |
| 6                                                | Junta Tórica - O-Ring     | Viton                                              |
| 7                                                | Tornillo - Bolt           | Acero Inoxidable - Stainless Steel AISI 316        |



| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |     |                          |        |        |                                   |
|---------------------------------------------|-----|--------------------------|--------|--------|-----------------------------------|
| REF                                         | DN  | DIMENSIONES - DIMENSIONS |        |        | Peso aprox.<br>Weight aprox. (Kg) |
|                                             |     | L (mm)                   | Ø (mm) | D (mm) |                                   |
| VCPRW41M                                    | 40  | 14                       | 94     | 22     | 0,8                               |
| VCPRW402                                    | 50  | 14                       | 107    | 32     | 1,0                               |
| VCPRW42M                                    | 65  | 14                       | 127    | 40     | 1,5                               |
| VCPRW403                                    | 80  | 14                       | 142    | 54     | 2,0                               |
| VCPRW404                                    | 100 | 18                       | 162    | 70     | 2,5                               |
| VCPRW405                                    | 125 | 18                       | 192    | 92     | 3,5                               |
| VCPRW406                                    | 150 | 20                       | 218    | 114    | 4,5                               |
| VCPRW408                                    | 200 | 22                       | 273    | 154    | 7,5                               |
| VCPRW410                                    | 250 | 26                       | 329    | 200    | 12,0                              |
| VCPRW412                                    | 300 | 28                       | 384    | 235    | 17,5                              |

VÁLVULA ESFERA LATÓN H/H Fª200  
BRASS BALL VALVE F/F



**CARACTERÍSTICAS BÁSICAS:**

- Fabricada en latón CW617N según UNE-EN 12165.
- Presión máxima de ejercicio PN25.
- Temperatura de servicio: -10 ° C A 110 °C.
- Extremos rosca hembra según UNE-EN ISO 228-1.
- Prensa estopa con guarnición de PTFE.
- Maneta de acero plastificada en color azul.

**APLICACIONES BÁSICAS:**

- Apta para agua fría, agua caliente y aire.
- Instalaciones de fontanería.
- Conducciones de agua para riego.

DESCRIPCION COMPONENTES- COMPONENTS DESCRIPTION

| ÍTEM | Descripción -Description        | Material-Material   |
|------|---------------------------------|---------------------|
| 1    | Tuerca hexagonal- Hexagonal nut | Acero-Steel         |
| 2    | Maneta- Handle                  | Acero-Steel         |
| 3    | Tuerca prensada, Stem nut       | Latón- Brass        |
| 4    | Anillo prensado- Stem Packing   | PTFE                |
| 5    | Eje- Stem                       | Latón- Brass        |
| 6    | Cuerpo- Body                    | Latón- Brass CW617N |
| 7    | Bola- Ball                      | Latón- Brass        |
| 8    | Asiento- Ball seat              | PTFE                |
| 9    | Contra Cuerpo- Cap              | Latón- Brass CW617N |

INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA<br>SIZE<br>(INCHES) | COD      | PN | DIMENSIONES- DIMENSIONS |        |         |        |       | Peso aprox<br>Weight aprox<br>(g) |
|----------------------------|----------|----|-------------------------|--------|---------|--------|-------|-----------------------------------|
|                            |          |    | Int(mm)                 | L (mm) | L1 (mm) | L2(mm) | H(mm) |                                   |
| 1/2"                       | V200500M | 25 | 15                      | 46     | 10,0    | 90     | 53    | 160                               |
| 3/4"                       | V2005034 | 25 | 18                      | 51     | 11,0    | 100    | 56    | 220                               |
| 1"                         | V2005001 | 25 | 22                      | 58     | 12,5    | 110    | 60    | 330                               |
| 1 1/4"                     | V200501C | 25 | 28                      | 72     | 14,0    | 140    | 75    | 507                               |
| 1 1/2"                     | V200501M | 25 | 35                      | 81     | 15,0    | 140    | 78    | 739                               |
| 2"                         | V2005002 | 25 | 44                      | 96     | 17,0    | 162    | 90    | 1133                              |
| 2 1/2"                     | V200502M | 25 | 57                      | 124    | 23,0    | 236    | 108   | 2430                              |
| 3"                         | V2005003 | 25 | 68                      | 139    | 25,0    | 236    | 116   | 3306                              |



#### CARACTERÍSTICAS BÁSICAS:

- Fabricada en latón CW617N según UNE-EN 12165.
- Presión máxima de ejercicio: PN 16.
- Temperatura de servicio: -10 °C a 90 °C.
- Extremo rosca macho según UNE-EN ISO 228-1.
- Prensa estopa con guarnición de PTFE.
- Maneta de acero inoxidable plastificada en color azul.
- Salida racor rápido conexión manguera.
- Sistema anti-hielo.
- Válvula de cierre rápido, todo o nada, 1/4 de vuelta.



#### INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA<br>SIZE<br>A (INCHES) | MEDIDA<br>SIZE<br>B (INCHES) | COD      | PN | DIMENSIONES- DIMENSIONS |           |           |            |            |           |            |           |           | Peso aprox<br>Weight<br>aprox<br>(g) |
|------------------------------|------------------------------|----------|----|-------------------------|-----------|-----------|------------|------------|-----------|------------|-----------|-----------|--------------------------------------|
|                              |                              |          |    | Int<br>(mm)             | D<br>(mm) | L<br>(mm) | L1<br>(mm) | L2<br>(mm) | H<br>(mm) | H1<br>(mm) | F<br>(mm) | C<br>(mm) |                                      |
| 1/2"                         | 3/4"                         | GRLAICOM | 16 | 10                      | 72        | 41        | 10,5       | 84         | 40,3      | 47         | 16        | 10        | 199                                  |
| 3/4"                         | 1"                           | GRLAIC34 | 16 | 12                      | 87        | 50        | 12,0       | 84         | 41,6      | 51         | 16        | 10        | 270                                  |
| 1"                           | 1 1/4"                       | -        | 16 | 15                      | 95        | 55        | 12,0       | 110        | 47,3      | 55         | 16        | 10        | 360                                  |



VÁLVULA DE ESFERA 3 VÍAS LATON – PASO EN L  
3 WAYS BRASS BALL VALVE- "L" TYPE

#### INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA<br>SIZE<br>(INCHES) | COD      | PN | DIMENSIONES- DIMENSIONS |           |            |            |            |           | Peso aprox<br>Weight aprox<br>(g) |
|----------------------------|----------|----|-------------------------|-----------|------------|------------|------------|-----------|-----------------------------------|
|                            |          |    | Int<br>(mm)             | L<br>(mm) | L1<br>(mm) | L2<br>(mm) | L3<br>(mm) | H<br>(mm) |                                   |
| 1/4"                       | -        | 16 | 10                      | 81        | 15,0       | 125        | 65         | 64        | 693                               |
| 3/8"                       | V3VRL338 | 16 | 10                      | 81        | 15,0       | 125        | 65         | 64        | 665                               |
| 1/2"                       | -        | 16 | 10                      | 82        | 16,5       | 125        | 67         | 64        | 664                               |
| 3/4"                       | -        | 16 | 15                      | 91        | 19,0       | 125        | 74         | 67        | 876                               |
| 1"                         | -        | 16 | 20                      | 105       | 21,0       | 130        | 85         | 67        | 1434                              |
| 1 1/4"                     | -        | 16 | 25                      | 116       | 23,0       | 161        | 94         | 79        | 1945                              |
| 1 1/2"                     | -        | 16 | 32                      | 140       | 28,0       | 220        | 116        | 92        | 3689                              |
| 2"                         | -        | 16 | 40                      | 164       | 30,0       | 220        | 136        | 98        | 5285                              |



VÁLVULA DE ESFERA 3 VÍAS LATON – PASO EN T  
3 WAYS BRASS BALL VALVE- "T" TYPE

#### INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA<br>SIZE<br>(INCHES) | COD | PN | DIMENSIONES- DIMENSIONS |           |            |            |            |           | Peso aprox<br>Weight aprox<br>(g) |
|----------------------------|-----|----|-------------------------|-----------|------------|------------|------------|-----------|-----------------------------------|
|                            |     |    | Int<br>(mm)             | L<br>(mm) | L1<br>(mm) | L2<br>(mm) | L3<br>(mm) | H<br>(mm) |                                   |
| 1/4"                       | -   | 16 | 10                      | 81        | 15,0       | 125        | 65         | 64        | 691                               |
| 3/8"                       | -   | 16 | 10                      | 81        | 15,0       | 125        | 65         | 64        | 656                               |
| 1/2"                       | -   | 16 | 10                      | 82        | 16,5       | 125        | 67         | 64        | 665                               |
| 3/4"                       | -   | 16 | 15                      | 91        | 19,0       | 125        | 74         | 67        | 863                               |
| 1"                         | -   | 16 | 20                      | 105       | 21,0       | 130        | 85         | 67        | 1446                              |
| 1 1/4"                     | -   | 16 | 25                      | 116       | 23,0       | 161        | 94         | 79        | 1917                              |
| 1 1/2"                     | -   | 16 | 32                      | 140       | 28,0       | 220        | 116        | 92        | 3612                              |
| 2"                         | -   | 16 | 40                      | 164       | 30,0       | 220        | 136        | 98        | 5242                              |

VÁLVULA RETENCIÓN LINEA LATÓN  
CHECK VALVE

VALVULERIA Y FERRETERIA NAVAL



SUMINISTROS



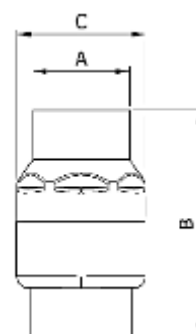
BENI SL

INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA SIZE<br>(INCHES) | COD      | PN | DIMENSIONES- DIMENSIONS |        |       |       | Peso aprox / Weight<br>aprox (g) |
|-------------------------|----------|----|-------------------------|--------|-------|-------|----------------------------------|
|                         |          |    | D(mm)                   | L (mm) | d(mm) | H(mm) |                                  |
| 3/8"                    | VRETL538 | 16 | 31                      | 42     | 14    | 11    | 110                              |
| 1/2"                    | VRETL0M  | 16 | 33                      | 45     | 15    | 11    | 140                              |
| 3/4"                    | VRETL34  | 16 | 42                      | 48     | 23    | 12    | 200                              |
| 1"                      | VRETL01  | 16 | 48                      | 56     | 28    | 13    | 270                              |
| 1 1/4"                  | VRETL1C  | 10 | 59                      | 58     | 37    | 13    | 362                              |
| 1 1/2"                  | VRETL1M  | 10 | 68                      | 68     | 42    | 14    | 560                              |
| 2"                      | VRETL02  | 10 | 81                      | 77     | 53    | 16    | 833                              |
| 2 1/2"                  | -        | 8  | 104                     | 93     | 68    | 20    | 1835                             |
| 3"                      | -        | 8  | 111                     | 97     | 78    | 22    | 2080                             |
| 4"                      | VRETL504 | 8  | 140                     | 110    | 100   | 22    | 3402                             |



VÁLVULA RETENCION LINEA INOX  
DISK CHECK VALVE, THREADED ENDS



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA SIZE<br>(INCHES) | COD      | PN | DIMENSIONES- DIMENSIONS |     |     | Peso /Weight (g) | KY (m³/h) |
|-------------------------|----------|----|-------------------------|-----|-----|------------------|-----------|
|                         |          |    | A                       | B   | C   |                  |           |
| 1/4"                    | VRETL20C | 16 | 18                      | 55  | 32  | 0,094            | 2,5       |
| 3/8"                    | -        | 16 | 20                      | 55  | 32  | 0,091            | 3,2       |
| 1/2"                    | VRETL20M | 16 | 25                      | 55  | 32  | 0,093            | 6         |
| 3/4"                    | VRETL234 | 16 | 30                      | 67  | 44  | 0,129            | 10,8      |
| 1"                      | VRETL201 | 16 | 36                      | 83  | 53  | 0,191            | 18,7      |
| 1 1/4"                  | VRETL21C | 16 | 45                      | 97  | 62  | 0,281            | 31,5      |
| 1 1/2"                  | VRETL21M | 16 | 51                      | 115 | 78  | 0,388            | 40,5      |
| 2"                      | VRETL202 | 16 | 63                      | 121 | 89  | 0,704            | 56        |
| 2 1/2"                  | VRETL22M | 16 | 80                      | 141 | 113 | 1,425            | 69        |
| 3"                      | -        | 16 | 93                      | 164 | 132 | 2,085            | 99        |
| 4"                      | -        | 16 | 120                     | 191 | 167 | 3,415            | 181       |

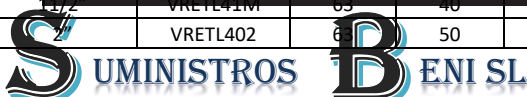
VÁLVULA RETENCION LINEA INOX 200W  
ROSCADA PN63 H/H  
STAINLESS STEEL CHECK VALVE THREADED  
PN63 F/F

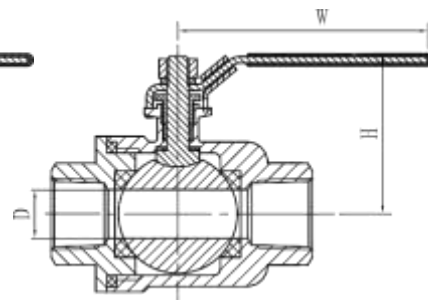
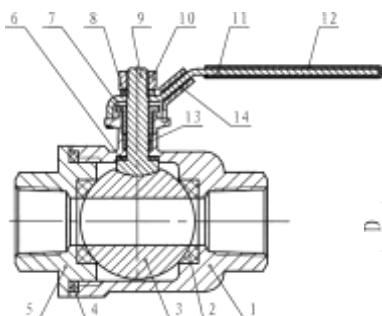
INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| MEDIDA SIZE<br>(INCHES) | COD      | PN | DIMENSIONES- DIMENSIONS |        |        |        | Peso /Weight (g) |
|-------------------------|----------|----|-------------------------|--------|--------|--------|------------------|
|                         |          |    | d (mm)                  | D (mm) | C (mm) | L (mm) |                  |
| 1/4"                    | VRETL40C | 63 | 10,5                    | 30     | 12     | 54     | 130              |
| 3/8"                    | VRETL438 | 63 | 13                      | 30     | 12     | 54     | 120              |
| 1/2"                    | VRETL40M | 63 | 15                      | 345    | 14     | 57     | 160              |
| 3/4"                    | VRETL434 | 63 | 20                      | 415    | 15     | 64     | 275              |
| 1"                      | VRETL401 | 63 | 25                      | 486    | 18     | 80     | 475              |
| 1 1/4"                  | VRETL41C | 63 | 32                      | 558    | 22     | 96     | 600              |
| 1 1/2"                  | VRETL41M | 63 | 40                      | 630    | 25     | 112    | 700              |
| 2"                      | VRETL402 | 63 | 50                      | 762    | 32     | 128    | 850              |



VÁLVULA BOLA INOX316 HH  
2 PIECES STAINLESS STEEL BALL VALVE F/F





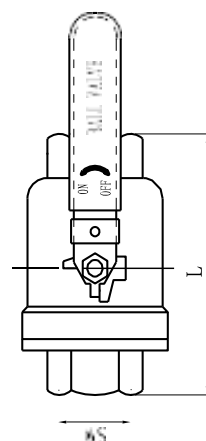
### CARACTERÍSTICAS BÁSICAS

- Válvula de esfera H/H.
- Construcción en acero inoxidable CF8M (AISI 316).
- Presión máxima de ejercicio: PN 63 de 1/4" a 2" y PN 40 de 2 1/2" a 4" (ver tabla y gráfico).
- Temperatura de servicio: -20 °C a 180 °C (ver gráfico).
- Extremos roscados según UNE-EN 10226-1 y ISO 7-1.
- Mando manual por palanca con sistema de bloqueo.
- Maneta en AISI 304 recubierta de PVC azul.
- Ideal para el transporte de agua, gas y aceites.

### BASIC FEATURES

- Ball valve F/F.
- Made in CF8M (AISI 316).
- Maximum working pressure: PN 63 from 1/4" to 2" and PN 40 from 2 1/2" to 4" (see table and graphic).
- Working temperature: -20 °C to 180 °C (see graphic).
- Female threads ends according to EN 10226-1 and ISO 7-1.
- Device locking system.
- Handle in AISI 304 with blue PVC sleeve.
- Ideal for water, air, oil and gas applications.

| DESCRIPCIÓN COMPONENTES - COMPONENTS DESCRIPTION |                                      |                                                    |
|--------------------------------------------------|--------------------------------------|----------------------------------------------------|
| Ítem                                             | Descripción - Description            | Material - Material                                |
| 1                                                | Cuerpo - Body                        | Acero Inoxidable - Stainless Steel AISI 316-1.4401 |
| 2                                                | Asiento bola - Ball seat             | PTFE+15%GF                                         |
| 3                                                | Bola - Ball                          | Acero Inoxidable - Stainless Steel AISI 316-1.4401 |
| 4                                                | Junta cuerpo - Body seal             | PTFE                                               |
| 5                                                | Contra cuerpo - Locking body         | Acero Inoxidable - Stainless Steel AISI 316-1.4401 |
| 6                                                | Asiento cuerpo - Body seat           | PTFE                                               |
| 7                                                | Tuerca prensado - Stem packing       | Acero Inoxidable - Stainless Steel AISI 304-1.4301 |
| 8                                                | Anilla plana - Flat ring             | Acero Inoxidable - Stainless Steel AISI 304-1.4301 |
| 9                                                | Eje - Stem                           | Acero Inoxidable - Stainless Steel AISI 316-1.4401 |
| 10                                               | Tuerca - Nut                         | Acero Inoxidable - Stainless Steel AISI 304-1.4301 |
| 11                                               | Maneta - Handle                      | Acero Inoxidable - Stainless Steel AISI 304-1.4301 |
| 12                                               | Recubrimiento maneta - Handle sleeve | PVC azul - Blue PVC                                |
| 13                                               | Anillo prensado - Friction ring      | PTFE                                               |
| 14                                               | Bloqueo de maneta - Handle lock      | Acero Inoxidable - Stainless Steel AISI 304-1.4301 |



### INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

| REF      | R<br>(inches) | PN | DIMENSIONES - DIMENSIONS |        |        |         |        | Peso aprox.<br>Weight<br>aprox.(kg) |
|----------|---------------|----|--------------------------|--------|--------|---------|--------|-------------------------------------|
|          |               |    | D (mm)                   | L (mm) | H (mm) | SW (mm) | W (mm) |                                     |
| V200400C | 1/4"          | 63 | 12,5                     | 49     | 47     | 17      | 100    | 0,21                                |
| V2004038 | 3/8"          | 63 | 12,5                     | 49     | 47     | 21      | 100    | 0,22                                |
| V200400M | 1/2"          | 63 | 15                       | 56     | 48     | 25,5    | 100    | 0,26                                |
| V2004034 | 3/4"          | 63 | 20                       | 64     | 60     | 31      | 112    | 0,40                                |
| V2004001 | 1"            | 63 | 25                       | 78     | 57     | 38      | 135    | 0,58                                |
| V200401C | 1 1/4"        | 63 | 32                       | 90     | 71     | 48      | 145    | 1,01                                |
| V200401M | 1 1/2"        | 63 | 38                       | 96     | 82     | 55      | 145    | 1,40                                |
| V2004002 | 2"            | 63 | 50                       | 116    | 97     | 68      | 165    | 2,10                                |
| V200402M | 2 1/2"        | 40 | 65                       | 146,5  | 128    | 83,5    | 250    | 4,53                                |
| V2004003 | 3"            | 40 | 76                       | 168    | 135    | 99      | 250    | 6,48                                |
| V2004004 | 4"            | 40 | 94                       | 214    | 172    | 124     | 308    | 12,07                               |



## ► Datos Técnicos

|                         |                                                                               |
|-------------------------|-------------------------------------------------------------------------------|
| Rango de fabricación    | DN32 – DN2000                                                                 |
| Distancia entre caras   | EN 558 Series 20<br>ISO 5752 Series 20<br>API 608 Table 1<br>BS 5155 Series 4 |
| Montaje entre bridas    | PN10/16-ANSI150 Lbs.                                                          |
| Bridas                  | ISO 7005, DIN 2501, BS 4504<br>ANSI Class 150: ANSI B16.5                     |
| Conexión brida superior | ISO 5211                                                                      |
| Pruebas                 | ISO 5208, zero leakage<br>API 598                                             |
| Pintura                 | Rilsan®                                                                       |
| Presión de trabajo      | DN32 – DN600, Max. 20 bar<br>>DN600, Max. 16 bar                              |



## ► Características

- Válvulas certificadas y aprobadas para diferentes aplicaciones.
- Fuga cero.
- Asiento reemplazable o vulcanizado.
- Eje de una pieza, protección completa del eje y del cuerpo contra los fluidos circulantes.
- Flujo bidireccional.
- Auto limpieza.
- Diseño ligero, fácil instalación.
- Fácil mantenimiento.
- Posibilidad de operación con diferentes controles (Mando palanca, reductor, actuador neumático, eléctrico, hidráulico...)
- Par de operación bajo.
- Diseño aerodinámico del disco que minimiza la pérdida de presión.

## ► Aplicaciones Generales

### Agua:

- Irrigación
- Agua potable
- Agua de mar
- Suministro de agua
- Gasolina
- Agua industrial
- Agua residual
- Sistemas de protección contra incendios
- Torres de enfriamiento

### Industria:

- Comida
- Papel
- Químicos
- Petroquímicos
- Ingeniería
- Cemento
- Petróleo
- Metalúrgica

### Generación de energía

Construcción naval

Minería

Calefacción

Aire acondicionado

Aire comprimido

Construcción



## Torque válvula (Nm)

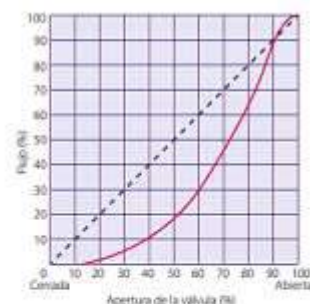
| DN   |        | Torque (Nm) |        |        |
|------|--------|-------------|--------|--------|
| mm   | in     | 6 bar       | 10 bar | 16 bar |
| 32   | 1 1/4" | 3           | 6      | 9      |
| 40   | 1 1/2" | 3           | 6      | 9      |
| 50   | 2"     | 5           | 8      | 11     |
| 65   | 2 1/2" | 7           | 10     | 20     |
| 80   | 3"     | 10          | 14     | 29     |
| 100  | 4"     | 12          | 18     | 47     |
| 125  | 5"     | 18          | 31     | 62     |
| 150  | 6"     | 31          | 59     | 130    |
| 200  | 8"     | 55          | 93     | 210    |
| 250  | 10"    | 123         | 206    | 360    |
| 300  | 12"    | 216         | 330    | 475    |
| 350  | 14"    | 333         | 425    | 760    |
| 400  | 16"    | 519         | 640    | 1308   |
| 450  | 18"    | 735         | 1176   | 1600   |
| 500  | 20"    | 931         | 1450   | 2340   |
| 600  | 24"    | 1372        | 2850   | 3300   |
| 700  | 28"    | 2254        | 4600   | 6250   |
| 750  | 30"    | 3136        | 5800   | 7644   |
| 800  | 32"    | 3724        | 7400   | 8938   |
| 900  | 36"    | 4410        | 11000  | 11760  |
| 1000 | 40"    | 6223        | 13600  | 15876  |
| 1100 | 44"    | 9702        | 14300  | 18135  |
| 1200 | 48"    | 12150       | 16400  | 21000  |
| 1300 | 52"    | -           | 17800  | -      |
| 1400 | 56"    | -           | 19200  | -      |
| 1600 | 64"    | -           | 29000  | -      |

Todos los torques mostrados en la tabla se han ensayado en servicio mojado. Para servicios secos, (medios de gas seco no lubricante) multiplicar los valores por 1.15  
Para servicios lubricantes (limpieza, medios lubricantes no abrasivos) multiplicar los valores por 0.85

Para obtener datos adicionales y mayor información, por favor póngase en contacto con el Departamento Técnico.

## Datos Kv

| Coeficiente de flujo Kv |        |
|-------------------------|--------|
| 90°                     | 90°    |
| 70                      | 70     |
| 70                      | 70     |
| 164                     | 164    |
| 201                     | 201    |
| 359                     | 359    |
| 427                     | 427    |
| 995                     | 995    |
| 1471                    | 1471   |
| 2509                    | 2509   |
| 3936                    | 3936   |
| 5855                    | 5855   |
| 8179                    | 8179   |
| 10660                   | 10660  |
| 12889                   | 12889  |
| 16023                   | 16023  |
| 22741                   | 22741  |
| 32448                   | 32448  |
| 35033                   | 35033  |
| 44850                   | 44850  |
| 51247                   | 51247  |
| 66104                   | 66104  |
| 81526                   | 81526  |
| 97355                   | 97355  |
| 119787                  | 119787 |
| 138400                  | 138400 |
| 166080                  | 166080 |



$$Cv = 1,16 \cdot Kv$$

Kv: Volumen de agua en m<sup>3</sup>/h, que fluirá a través de una restricción o válvula con una caída de presión de 1 bar a 20°C

## Tabla de temperatura y resistencia:

| Nombre              | Aplicaciones                                                                                                         | Limitaciones                                                                            | Rango de Temp. |
|---------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|----------------|
| EPDM                | Agua, Agua de mar, Alcoholes, Disolución de sales orgánicas, Solución de ácidos minerales, Bases minerales alcalinas | No recomendado para hidrocarburos orgánicos                                             | -20°C a 110°C  |
| EPDM alta Temp.     | Agua                                                                                                                 | No recomendado para hidrocarburos                                                       | -20°C a 130°C  |
| NBR                 | Aceites minerales y vegetales, gases, hidrocarburos no aromáticos, grasas vegetales y animales, aire                 | Ácidos orgánicos, algunos ácidos minerales, cloros, alcoholes, hidrocarburos aromáticos | -10°C a 80°C   |
| Hypalon             | Disoluciones de ácidos minerales, ácidos orgánicos e inorgánicos, sustancias oxidantes                               | Aceites minerales y vegetales, hidrocarburos, grasas minerales y vegetales, cetonas     | -10°C a 80°C   |
| FKM                 | Ácidos, grasas, hidrocarburos, aceites vegetales y minerales, combustibles                                           | Vapor y agua caliente (max. 130°C), gasolinas, cetonas, aminas, heñén 22                | -5°C a 180°C   |
| Silicona            | Resistencia a altas y bajas temperaturas, grado alimentario                                                          | Hidrocarburos, ácidos, bases, agentes atmosféricos                                      | -10°C a 160°C  |
| Silicona alta Temp. | Agua sobrecalentada                                                                                                  | Hidrocarburos, ácidos y bases fuertes                                                   | -50°C a 160°C  |
| Epiclorhidrina      | Resistencia al ozono, hidrocarburos, aceites aromáticos                                                              | Vapor, resistencia intermedia a los aceites                                             | -25°C a 145°C  |

## Código corto: Ej.: 20W9040 NO

| Material Cuerpo | Serie |            | Tipo de Válvula |                                                     | Material Eje   | Material Disco  | Material Asiento |                           |
|-----------------|-------|------------|-----------------|-----------------------------------------------------|----------------|-----------------|------------------|---------------------------|
| 20              | W     |            |                 |                                                     | 90             | 40              | NO               |                           |
| 10 GJ.250       | W     | Waler      | V               | Concéntrica asiento blando estándar                 | 30 AISI 304    | 20 GJ500-7      | Co               | CAUCHO NAT.               |
| 20 GJ500-7      | L     | Lug        |                 | Elastómero vulcanizado                              | 40 AISI 316    | 40 CF-8M        | Ed               | EPDM                      |
| 40 CF-8M        | B     | Bridas S20 | P               | PTFE-Inox                                           | 90 AISI 420    | 50 WCB          | EA               | EPDM POTABLE              |
| 50 WCB          | 3     | Bridas S13 |                 | PTFE-PTFE: se añade T al final del código           | 95 17-4 PH     | 80 B-148 C95500 | ET               | EPDM ALTA TEMPERATURA     |
| 51 LCB          | 4     | Bridas S14 | M               |                                                     | D0 1.4462      | 91 CA-15        | EN               | NORDEL                    |
| 60 Aluminio     | R     | flanurada  |                 |                                                     | D1 1.4517      | 95 17-4 PH      | Fd               | PTFE                      |
| 80 B-148 C95500 |       |            | X               | Metal/ metal concéntrica                            | MS MONEL K-500 | D0 1.4470       | H0               | HYPALON                   |
|                 |       |            |                 | Metal/ metal biexcéntrica: metal/ PTFE biexcéntrica |                | D1 1.4517       | N0               | NITRIL                    |
|                 |       |            | D               |                                                     |                | H0 HASTELLOY C  | NC               | NITRIL CARBOX.            |
|                 |       |            |                 | Doble brida biexcéntrica asiento blando             |                | U0 URANIUS B6   | NG               | NITRIL GAS                |
|                 |       |            | C               | Triple excéntrica                                   |                | S3 1.4409       | NL               | NITRIL BAJA TEMPERATURA   |
|                 |       |            |                 |                                                     |                | S7 CK3MCuN      | S0               | SILICONA                  |
|                 |       |            |                 |                                                     |                |                 | SA               | SILICONA ALIMENTICIA      |
|                 |       |            |                 |                                                     |                |                 | ST               | SILICONA ALTA TEMPERATURA |
|                 |       |            |                 |                                                     |                |                 | VO               | VITON                     |
|                 |       |            |                 |                                                     |                |                 | ST               | EPICLORHIDRINA            |
|                 |       |            |                 |                                                     |                |                 | NE               | NEOPRENO                  |
|                 |       |            |                 |                                                     |                |                 | FS               | PTFE+25% FIBRA DE VIDRIO  |
|                 |       |            |                 |                                                     |                |                 | 4L               | CF-3M                     |
|                 |       |            |                 |                                                     |                |                 | 30               | INCONEL                   |
|                 |       |            |                 |                                                     |                |                 | 4E               | AISI 316 ESTELITADO       |
|                 |       |            |                 |                                                     |                |                 | 4G               | AISI 316 + GRAFITO        |



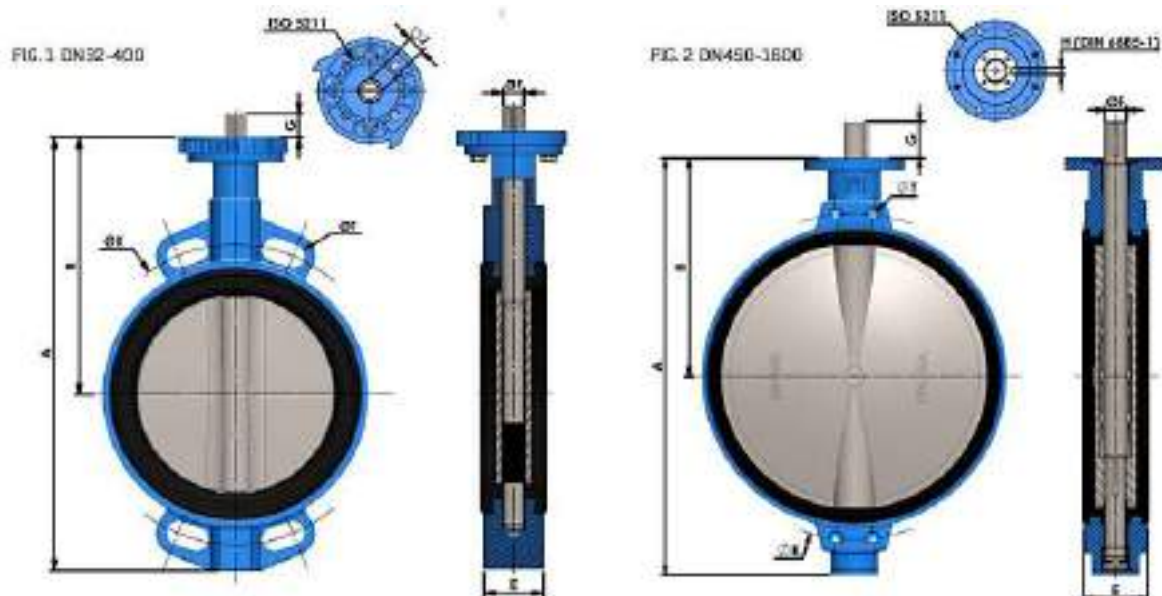
# VÁLVULAS MARIPOSA TIPO WAFER WAFER TYPE BUTTERFLY VALVES

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



| Diámetro nominal |        | Mando palanca  |     |             | Reductor  |       |     |     |             | Actuador neumático doble efecto |     |       |              |             | Actuador neumático simple efecto |       |       |         |             |
|------------------|--------|----------------|-----|-------------|-----------|-------|-----|-----|-------------|---------------------------------|-----|-------|--------------|-------------|----------------------------------|-------|-------|---------|-------------|
| Nomenclatura     |        | Lever-operated |     |             | Worm-gear |       |     |     |             | Double acting actuator          |     |       |              |             | Spring return actuator           |       |       |         |             |
| (mm)             | (in)   | A              | B   | Peso Weight | A         | B     | C   | ØD  | Peso Weight | A                               | B   | C     | Modelo Model | Peso Weight | A                                | B     | C     | Model   | Peso Weight |
| 32               | 1 1/4" | 170            | 205 | 2,5         | 195       | 128   | 118 | 140 | 3,5         | 214                             | 145 | 76    | ADA20        | 3,5         | 235                              | 195   | 91    | ASR40   | 4,5         |
| 40               | 1 1/2" | 170            | 205 | 2,5         | 195       | 128   | 118 | 140 | 3,5         | 214                             | 145 | 76    | ADA20        | 3,5         | 235                              | 195   | 91    | ASR40   | 4,5         |
| 50               | 2"     | 186            | 205 | 4           | 214       | 128   | 118 | 140 | 5           | 252                             | 145 | 76    | ADA20        | 5           | 271                              | 195   | 91    | ASR40   | 6           |
| 65               | 2 1/2" | 191            | 205 | 5           | 219       | 128   | 118 | 140 | 6           | 276                             | 158 | 91    | ADA40        | 6,5         | 298                              | 217   | 111   | ASR80   | 8,5         |
| 80               | 3"     | 199            | 205 | 5,5         | 227       | 128   | 118 | 140 | 6,5         | 294                             | 158 | 91    | ADA40        | 7           | 318                              | 258   | 122   | ASR150  | 10          |
| 100              | 4"     | 217            | 205 | 7           | 245       | 128   | 118 | 140 | 8           | 324                             | 177 | 111   | ADA60        | 9,5         | 334                              | 258   | 122   | ASR150  | 11,5        |
| 125              | 5"     | 235            | 330 | 9,5         | 264       | 128   | 120 | 200 | 10          | 353                             | 225 | 135   | ADA130       | 12          | 376                              | 348,5 | 152,5 | ASR300  | 19          |
| 150              | 6"     | 145            | 330 | 10,5        | 273       | 128   | 120 | 200 | 11          | 380                             | 225 | 135   | ADA200       | 14,5        | 397                              | 348,5 | 152,5 | ASR300  | 20          |
| 200              | 8"     | 285            | 330 | 16,5        | 313       | 128   | 120 | 200 | 17          | 420                             | 225 | 135   | ADA200       | 20,5        | 457                              | 397   | 173   | ASR500  | 33,5        |
| 250              | 10"    | 331            | 600 | 25          | 322       | 175   | 223 | 300 | 25,5        | 430                             | 273 | 152,5 | ADA300       | 48          | 468                              | 473   | 191,5 | ASR850  | 44          |
| 300              | 12"    | 363            | 600 | 33          | 354       | 175   | 223 | 300 | 34          | 479                             | 304 | 170   | ADA500       | 61,5        | 529                              | 560   | 212,5 | ASR1200 | 64,5        |
| 350              | 14"    | -              | -   | -           | 398       | 224   | 322 | 400 | 48,5        | 549                             | 439 | 212,5 | ADA1300      | 65          | 580                              | 601   | 242,5 | ASR1750 | 85          |
| 400              | 16"    | -              | -   | -           | 418       | 224   | 322 | 400 | 61,5        | 620                             | 461 | 242,5 | ADA1750      | 84,5        | 738                              | 702   | 270,5 | ASR2500 | 152         |
| 450              | 18"    | -              | -   | -           | 486       | 325   | 381 | 600 | 106         | 703                             | 510 | 276,5 | ADA2100      | 102         | 824                              | 940   | 415   | ASR4000 | 270         |
| 500              | 20"    | -              | -   | -           | 542       | 258   | 402 | 600 | 144         | 823                             | 518 | 350   | ADA2500      | 167         | -                                | -     | -     | -       | -           |
| 600              | 24"    | -              | -   | -           | 610       | 322,5 | 447 | 700 | 216         | 863                             | 610 | 435   | ADA2500      | 247         | -                                | -     | -     | -       | -           |
| 700              | 28"    | -              | -   | -           | 699       | 390   | 447 | 500 | 307         | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 750              | 30"    | -              | -   | -           | 725       | 390   | 447 | 500 | 345         | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 800              | 32"    | -              | -   | -           | 770       | 390   | 447 | 700 | 379         | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 900              | 36"    | -              | -   | -           | 824       | 469   | 500 | 600 | 580         | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 1000             | 40"    | -              | -   | -           | 884       | 469   | 500 | 600 | 726         | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 1100             | 44"    | -              | -   | -           | 954       | 469   | 500 | 600 | 927         | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 1200             | 48"    | -              | -   | -           | 1012      | 574   | 558 | 800 | 1107        | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 1300             | 52"    | -              | -   | -           | 1237      | 574   | 568 | 700 | 1882        | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 1400             | 56"    | -              | -   | -           | 1257      | 713   | 568 | 700 | 2132        | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |
| 1600             | 64"    | -              | -   | -           | 1422      | 713   | 568 | 700 | 2582        | -                               | -   | -     | -            | -           | -                                | -     | -     | -       | -           |



| Dimensiones válvulas / Valves dimensions |        |      |      |     |     |     |    |          |                  | PN10 |               | PN16 |               | ANSI150 |               |
|------------------------------------------|--------|------|------|-----|-----|-----|----|----------|------------------|------|---------------|------|---------------|---------|---------------|
| DN                                       |        | A    | B    | E   | F   | G   | J  | ISO 5211 | Peso Weight (Kg) | X    | Taladro Holes | K    | Taladro Holes | K       | Taladro Holes |
| mm                                       | in     |      |      |     |     |     |    |          |                  |      | N x T         |      | N x T         |         | N x T         |
| FIG.1 DN32-400                           |        |      |      |     |     |     |    |          |                  |      |               |      |               |         |               |
| 32                                       | 1 1/4" | 305  | 140  | 33  | 9,8 | 14  | 8  | F05/07   | 2                | 100  | 4x18          | 100  | 4x18          | 88,9    | 4x16          |
| 40                                       | 1 1/2" | 306  | 140  | 33  | 9,8 | 14  | 8  | F05/07   | 2                | 110  | 4x18          | 110  | 4x18          | 98,5    | 4x16          |
| 50                                       | 2"     | 328  | 156  | 43  | 9,8 | 14  | 8  | F05/07   | 3,5              | 125  | 4x18          | 125  | 4x18          | 120,6   | 4x19          |
| 65                                       | 2 1/2" | 348  | 161  | 46  | 12  | 16  | 9  | F05/07   | 4,5              | 145  | 4x18          | 145  | 4x18          | 139,7   | 4x19          |
| 80                                       | 3"     | 365  | 169  | 46  | 14  | 16  | 11 | F05/07   | 5                | 160  | 4x18          | 160  | 4x18          | 152,4   | 4x19          |
| 100                                      | 4"     | 398  | 187  | 52  | 14  | 20  | 11 | F05/07   | 6,5              | 180  | 4x18          | 180  | 4x18          | 190,5   | 4x19          |
| 125                                      | 5"     | 331  | 206  | 56  | 16  | 20  | 14 | F07      | 8                | 210  | 4x18          | 210  | 4x18          | 215,3   | 4x23          |
| 150                                      | 6"     | 349  | 215  | 56  | 18  | 20  | 14 | F07      | 9                | 240  | 4x23          | 240  | 4x23          | 241,3   | 4x23          |
| 200                                      | 8"     | 430  | 255  | 60  | 22  | 24  | 17 | F07      | 15               | 295  | 4x23          | 295  | 4x23          | 298,5   | 4x23          |
| 250                                      | 10"    | 461  | 248  | 68  | 25  | 24  | 19 | F10      | 21,5             | 350  | 4x23          | 355  | 4x27          | 362     | 4x26          |
| 300                                      | 12"    | 524  | 280  | 78  | 28  | 24  | 22 | F10      | 30               | 490  | 4x23          | 410  | 4x27          | 431,8   | 4x26          |
| 350                                      | 14"    | 570  | 300  | 78  | 28  | 29  | 22 | F14      | 39               | 490  | 4x23          | 470  | 4x27          | 476,3   | 4x29          |
| 400                                      | 16"    | 644  | 340  | 100 | 35  | 29  | 27 | F14      | 52               | 515  | 4x27          | 525  | 4x30          | 516,4   | 4x29          |
| FIG.2 DN450-1600                         |        |      |      |     |     |     |    |          |                  |      |               |      |               |         |               |
| 450                                      | 18"    | 736  | 399  | 114 | 50  | 80  | -  | F14      | 87               | 565  | 4xM24         | 585  | 4xM27         | 577,9   | 4x1 1/8"      |
| 500                                      | 20"    | 825  | 440  | 127 | 50  | 80  | -  | F14      | 117              | 620  | 4xM24         | 650  | 4xM30         | 635     | 4x1 1/8"      |
| 600                                      | 24"    | 965  | 507  | 154 | 60  | 90  | -  | F16      | 177              | 725  | 4xM27         | 770  | 4xM33         | 746,3   | 4x1 1/4"      |
| 700                                      | 28"    | 1106 | 575  | 165 | 60  | 90  | -  | F25      | 258              | 840  | 4xM27         | 840  | 4xM33         | 863     | 4x1 1/4"      |
| 750                                      | 30"    | 1150 | 606  | 190 | 65  | 110 | -  | F25      | 296              | 900  | 4xM30         | 900  | 4xM33         | 914     | 4x1 3/8"      |
| 800                                      | 32"    | 1248 | 633  | 190 | 65  | 110 | -  | F25      | 330              | 950  | 4xM30         | 950  | 4xM36         | 978     | 4x1 1/2"      |
| 900                                      | 36"    | 1325 | 685  | 200 | 80  | 110 | -  | F25      | 505              | 1050 | 4xM30         | 1050 | 4xM36         | 1086    | 4x1 1/2"      |
| 1000                                     | 40"    | 1457 | 754  | 216 | 80  | 110 | -  | F25      | 661              | 1160 | 4xM33         | 1170 | 4xM39         | 1200    | 4x1 1/2"      |
| 1100                                     | 44"    | 1589 | 835  | 216 | 80  | 110 | -  | F25      | 840              | 1270 | 4xM33         | 1270 | 4xM39         | 1314    | 4x1 1/2"      |
| 1200                                     | 48"    | 1721 | 873  | 254 | 100 | 110 | -  | F25      | 1020             | 1360 | 4xM36         | 1390 | 4xM45         | 1422    | 4x1 1/2"      |
| 1300                                     | 52"    | 1910 | 1005 | 360 | 120 | 120 | -  | F30      | 1650             | -    | -             | -    | -             | 1537    | 4x1 3/4"      |
| 1400                                     | 56"    | 1999 | 1025 | 360 | 120 | 130 | -  | F30      | 1900             | 1590 | 4xM39         | 1590 | 4xM45         | 1651    | 4x1 3/4"      |
| 1600                                     | 64"    | 2329 | 1190 | 360 | 150 | 160 | -  | F35      | 2350             | 1820 | 4xM45         | 1820 | 4xM52         | 1879,6  | 4x1 7/8"      |



# VÁLVULAS MARIPOSA TIPO LUG LUG TYPE BUTTERFLY VALVES

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



| Diámetro nominal |        | Mando palanca  |     |             | Reductor  |       |     |     |             | Actuador neumático doble efecto |     |       |              |             | Actuador neumático simple efecto |       |       |              |             |
|------------------|--------|----------------|-----|-------------|-----------|-------|-----|-----|-------------|---------------------------------|-----|-------|--------------|-------------|----------------------------------|-------|-------|--------------|-------------|
| Nomenclatura     |        | Lever operated |     |             | Worm gear |       |     |     |             | Double acting actuator          |     |       |              |             | Spring return actuator           |       |       |              |             |
| mm               | in     | A              | B   | Peso Weight | A         | B     | C   | ØD  | Peso Weight | A                               | B   | C     | Modelo Model | Peso Weight | A                                | B     | C     | Modelo Model | Peso Weight |
| 32               | 1 1/4" | 170            | 285 | 3,5         | 198       | 128   | 116 | 140 | 4,5         | 214                             | 145 | 76    | ADA20        | 4,5         | 255                              | 195   | 91    | ASR40        | 5           |
| 40               | 1 1/2" | 170            | 285 | 3,5         | 198       | 128   | 116 | 140 | 4,5         | 214                             | 145 | 76    | ADA20        | 4,5         | 255                              | 195   | 91    | ASR40        | 5           |
| 50               | 2"     | 186            | 305 | 4           | 214       | 128   | 116 | 140 | 5           | 252                             | 145 | 76    | ADA20        | 5           | 271                              | 195   | 91    | ASR40        | 5,5         |
| 65               | 2 1/2" | 191            | 305 | 5           | 219       | 128   | 116 | 140 | 6           | 276                             | 158 | 91    | ADA40        | 7           | 298                              | 217   | 111   | ASR80        | 7,5         |
| 80               | 3"     | 199            | 305 | 7           | 227       | 128   | 116 | 140 | 8           | 284                             | 158 | 91    | ADA40        | 9           | 316                              | 258   | 122   | ASR130       | 10,5        |
| 100              | 4"     | 217            | 305 | 8,5         | 245       | 128   | 116 | 140 | 9,5         | 324                             | 177 | 111   | ADA80        | 11          | 334                              | 258   | 122   | ASR130       | 12          |
| 125              | 5"     | 236            | 330 | 12          | 264       | 128   | 120 | 200 | 13          | 353                             | 225 | 135   | ADA150       | 15          | 378                              | 348,5 | 152,5 | ASR300       | 17          |
| 150              | 6"     | 245            | 330 | 13          | 273       | 128   | 120 | 200 | 14          | 380                             | 225 | 135   | ADA200       | 18          | 397                              | 348,5 | 152,5 | ASR300       | 18          |
| 200              | 8"     | 285            | 330 | 19,5        | 313       | 128   | 120 | 200 | 20,5        | 420                             | 225 | 135   | ADA200       | 24          | 457                              | 397   | 173   | ASR500       | 27          |
| 250              | 10"    | 331            | 600 | 31          | 322       | 175   | 223 | 300 | 32,5        | 430                             | 273 | 152,5 | ADA300       | 40          | 469                              | 475   | 191,5 | ASR550       | 45,5        |
| 300              | 12"    | 353            | 600 | 44,5        | 354       | 175   | 223 | 300 | 46          | 479                             | 304 | 176   | ADA500       | 53,5        | 529                              | 560   | 212,5 | ASR1200      | 64          |
| 350              | 14"    | -              | -   | -           | 398       | 224   | 322 | 400 | 62,5        | 549                             | 439 | 212,5 | ADA1200      | 81,5        | 580                              | 601   | 242,5 | ASR1750      | 85,5        |
| 400              | 16"    | -              | -   | -           | 438       | 224   | 322 | 400 | 86,5        | 620                             | 461 | 242,5 | ADA1750      | 109,5       | 759                              | 702   | 276,5 | ASR2500      | 147         |
| 450              | 18"    | -              | -   | -           | 483       | 226   | 381 | 600 | 129         | 703                             | 510 | 276,5 | ADA2100      | 160         | 824                              | 840   | 415   | ASR4000      | 239,5       |
| 500              | 20"    | -              | -   | -           | 542       | 258   | 402 | 600 | 162         | 823                             | 518 | 356   | ADA2500      | 204,5       | -                                | -     | -     | -            | -           |
| 600              | 24"    | -              | -   | -           | 630       | 322,5 | 447 | 700 | 249,5       | 883                             | 630 | 415   | ADA2500      | 279,5       | -                                | -     | -     | -            | -           |
| 700              | 28"    | -              | -   | -           | 699       | 403   | 447 | 500 | 339         | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 750              | 30"    | -              | -   | -           | 723       | 390   | 447 | 500 | 409         | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 800              | 32"    | -              | -   | -           | 779       | 390   | 447 | 700 | 499         | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 900              | 36"    | -              | -   | -           | 824       | 469   | 500 | 600 | 625         | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 1000             | 40"    | -              | -   | -           | 893       | 469   | 500 | 600 | 833         | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 1100             | 44"    | -              | -   | -           | 954       | 469   | 500 | 600 | 1107        | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 1200             | 48"    | -              | -   | -           | 1012      | 370   | 556 | 800 | 1347        | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 1300             | 52"    | -              | -   | -           | 1237      | 510   | 589 | 700 | 2562        | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 1400             | 56"    | -              | -   | -           | 1257      | 510   | 589 | 700 | 2882        | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |
| 1600             | 64"    | -              | -   | -           | 1422      | 510   | 589 | 700 | 3172        | -                               | -   | -     | -            | -           | -                                | -     | -     | -            | -           |

FIG.1 DN32-400

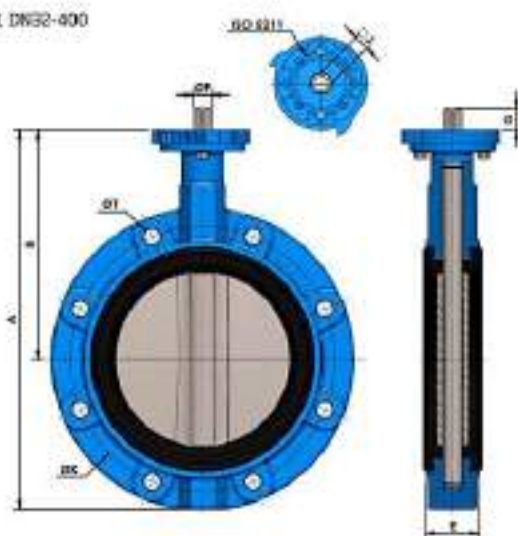
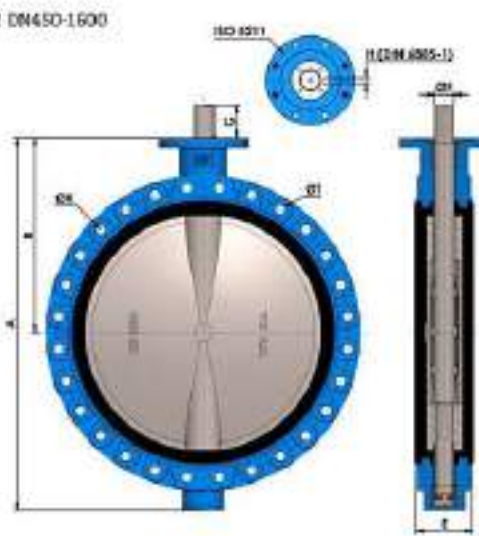


FIG.2 DN450-1600



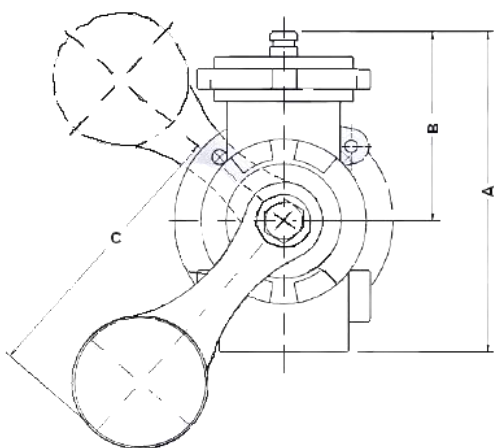
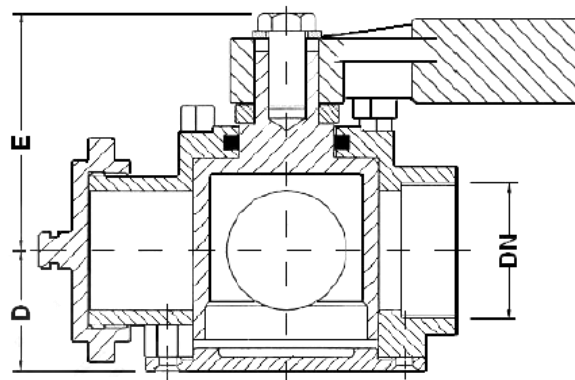
| Dimensiones válvulas / Valves dimensions |    |   |   |   |   |   |   |          | PN10             |     | PN16           |     | ANSI150        |   |                |
|------------------------------------------|----|---|---|---|---|---|---|----------|------------------|-----|----------------|-----|----------------|---|----------------|
| DN                                       |    | A | B | E | F | G | J | ISO 5211 | Peso Weight (Kg) | K   | Taladros Holes | K   | Taladros Holes | K | Taladros Holes |
| mm                                       | in |   |   |   |   |   |   |          |                  | NxT | NxT            | NxT | NxT            |   |                |

FIG.1 DN32-400

|     |        |     |     |     |     |    |    |      |      |     |        |     |        |       |         |
|-----|--------|-----|-----|-----|-----|----|----|------|------|-----|--------|-----|--------|-------|---------|
| 32  | 1 1/4" | 205 | 140 | 33  | 9,8 | 14 | 8  | 4x9  | 3    | 100 | 4xM16  | 100 | 4xM16  | 88,9  | 4x1/2"  |
| 40  | 1 1/2" | 205 | 140 | 33  | 9,8 | 14 | 8  | 4x9  | 3    | 110 | 4xM16  | 110 | 4xM16  | 98,5  | 4x1/2"  |
| 50  | 2"     | 226 | 156 | 43  | 9,8 | 14 | 8  | 4x9  | 3,5  | 125 | 4xM16  | 125 | 4xM16  | 120,6 | 4x5/8"  |
| 65  | 2 1/2" | 246 | 161 | 46  | 12  | 16 | 9  | 4x9  | 4,5  | 145 | 4xM16  | 145 | 4xM16  | 139,7 | 4x5/8"  |
| 80  | 3"     | 259 | 169 | 46  | 14  | 16 | 11 | 4x9  | 6,5  | 160 | 8xM16  | 160 | 8xM16  | 152,4 | 4x5/8"  |
| 100 | 4"     | 295 | 187 | 52  | 14  | 20 | 11 | 4x9  | 8    | 180 | 8xM16  | 180 | 8xM16  | 190,5 | 8x5/8"  |
| 125 | 5"     | 325 | 206 | 56  | 18  | 20 | 14 | 4x9  | 11   | 210 | 8xM16  | 210 | 8xM16  | 215,9 | 8x3/4"  |
| 150 | 6"     | 352 | 215 | 56  | 18  | 20 | 14 | 4x9  | 12   | 240 | 8xM20  | 240 | 8xM20  | 241,3 | 8x3/4"  |
| 200 | 8"     | 422 | 255 | 60  | 22  | 24 | 17 | 4x9  | 18,5 | 295 | 8xM20  | 295 | 12xM20 | 298,5 | 8x3/4"  |
| 250 | 10"    | 469 | 248 | 68  | 25  | 24 | 19 | 4x11 | 28,5 | 350 | 12xM20 | 355 | 12xM24 | 362   | 12x7/8" |
| 300 | 12"    | 523 | 280 | 78  | 28  | 24 | 22 | 4x11 | 42   | 400 | 12xM20 | 410 | 12xM24 | 431,8 | 12x7/8" |
| 350 | 14"    | 579 | 300 | 78  | 28  | 29 | 22 | 4x18 | 53   | 460 | 16xM20 | 470 | 16xM24 | 476,3 | 12x1"   |
| 400 | 16"    | 644 | 340 | 102 | 35  | 29 | 27 | 4x18 | 77   | 515 | 16xM24 | 525 | 16xM32 | 539,8 | 16x1"   |

FIG.2 DN450-1600

|      |     |      |      |     |     |     |   |      |      |      |        |      |        |        |           |
|------|-----|------|------|-----|-----|-----|---|------|------|------|--------|------|--------|--------|-----------|
| 450  | 18" | 738  | 390  | 114 | 50  | 80  | - | 4x18 | 110  | 505  | 20xM24 | 585  | 20xM27 | 577,9  | 16x1 1/8" |
| 500  | 20" | 825  | 440  | 127 | 50  | 80  | - | 4x18 | 135  | 620  | 20xM24 | 650  | 20xM30 | 635    | 20x1 1/8" |
| 600  | 24" | 965  | 507  | 154 | 60  | 90  | - | 4x22 | 210  | 725  | 20xM27 | 770  | 20xM33 | 749,3  | 20x1 1/4" |
| 700  | 28" | 1100 | 575  | 165 | 60  | 90  | - | 8x18 | 290  | 840  | 24xM27 | 840  | 24xM33 | 863    | 28x1 1/4" |
| 750  | 30" | 1150 | 600  | 190 | 65  | 110 | - | 8x18 | 360  | 900  | 24xM30 | 900  | 24xM33 | 914    | 28x1 1/4" |
| 800  | 32" | 1248 | 655  | 190 | 65  | 110 | - | 8x18 | 450  | 950  | 24xM30 | 950  | 24xM36 | 978    | 28x1 1/2" |
| 900  | 36" | 1325 | 685  | 203 | 80  | 110 | - | 8x18 | 550  | 1050 | 28xM30 | 1050 | 28xM36 | 1086   | 32x1 1/2" |
| 1000 | 40" | 1454 | 754  | 216 | 80  | 110 | - | 8x18 | 760  | 1160 | 28xM33 | 1170 | 28xM39 | 1200   | 36x1 1/2" |
| 1100 | 44" | 1580 | 815  | 216 | 80  | 110 | - | 8x18 | 1020 | 1270 | 32xM33 | 1270 | 32xM39 | 1314   | 40x1 1/2" |
| 1200 | 48" | 1720 | 873  | 254 | 100 | 110 | - | 8x18 | 1460 | 1380 | 32xM36 | 1390 | 32xM45 | 1422   | 44x1 1/2" |
| 1300 | 52" | 1910 | 1085 | 360 | 120 | 130 | - | 8x22 | 2330 | -    | -      | -    | -      | 1337   | 44x1 3/4" |
| 1400 | 56" | 1990 | 1025 | 360 | 120 | 130 | - | 8x22 | 2450 | 1590 | 36xM39 | 1590 | 36xM45 | 1651   | 48x1 3/4" |
| 1600 | 64" | 2320 | 1190 | 360 | 150 | 160 | - | 8x32 | 2940 | 1820 | 40xM45 | 1820 | 40xM52 | 1879,6 | 52x1 7/8" |



#### MATERIALES:

|                    |            |
|--------------------|------------|
| <u>Cuerpo:</u>     | Bronce     |
| <u>Macho:</u>      | Bronce     |
| <u>Contrapeso:</u> | Hº Fundido |

Nota: Bajo pedido se suministra con grifo de purga incorporado.

| REF      | DN     | A   | B   | C   | D  | E   |
|----------|--------|-----|-----|-----|----|-----|
| GSCP0032 | 1 1/4" | 125 | 75  | 150 | 42 | 72  |
| GSCP0040 | 1 1/2" | 162 | 92  | 170 | 48 | 83  |
| GSCP0050 | 2"     | 200 | 115 | 195 | 56 | 93  |
| GSCP0065 | 2 1/2" | 235 | 135 | 225 | 60 | 110 |
| GSCP0080 | 3"     | 264 | 145 | 250 | 65 | 130 |

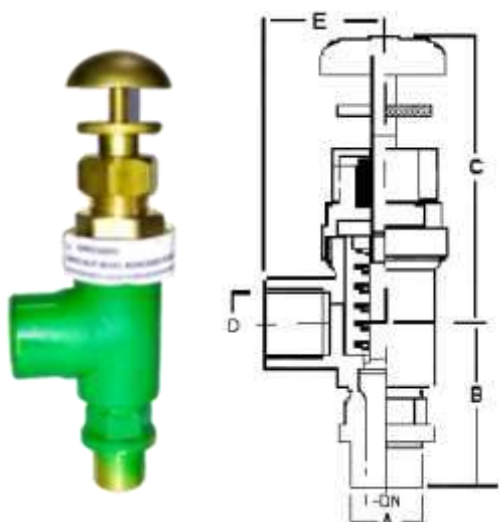


**MATERIALES:**

CUERPO: BRONCE  
PRUEBA HIDRÁULICA: 16 BAR  
NORMA: NAE – 35843

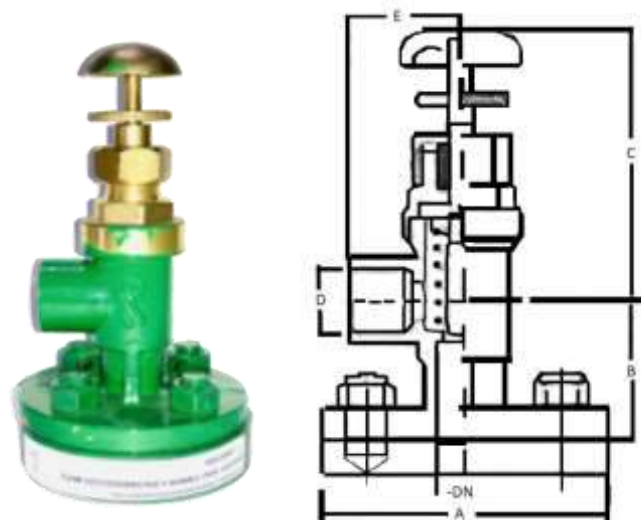
**CONEXIONES:**

Fª250: ROSCA MACHO-HEMBRA  
Fª251: BRIDA CON SUPLEMENTO, ESPÁRRAGOS, TUERCAS Y JUNTA DE NEOPRENO.



**Fª250**

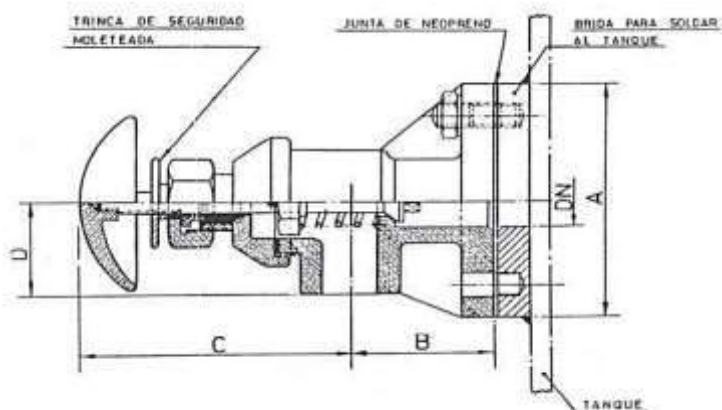
GRIFO AUT.NIVEL ROSCADO M-H



**Fª251**

GRIFO AUT. NIVEL C/BRIDA Y SUPLEMENTO

La **Fª251**, se suministra completa, con la brida (acero) de acoplamiento al tanque, espárragos con tuerca y arandela (acero) y junta (neopreno).



| Fª  | DN | REF      | A    | B  | C   | D     | E  |
|-----|----|----------|------|----|-----|-------|----|
| 250 | 15 | GNR2500M | 1/2" | 65 | 90  | 1/2 " | 37 |
| 250 | 25 | -        | 1"   | 80 | 120 | 1"    | 47 |
| 251 | 15 | GNR2510M | 95   | 50 | 90  | 1/2"  | 37 |
| 251 | 25 | -        | 115  | 65 | 120 | 1"    | 47 |

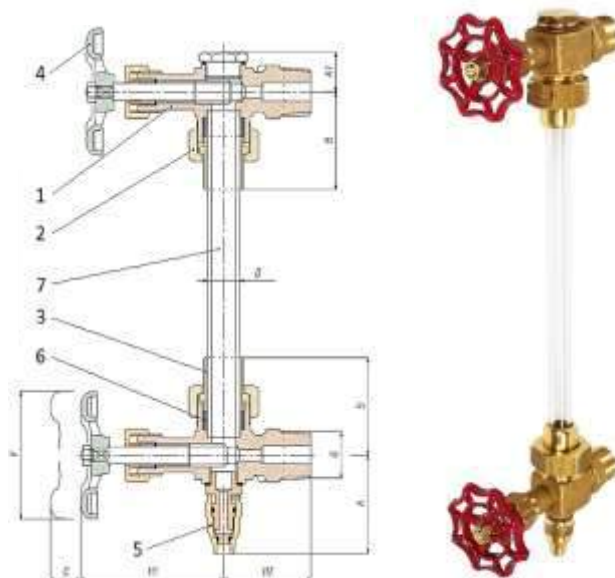
El indicador de nivel de Latón está diseñado para la indicación visual del nivel de un tanque, el cuál proporciona una lectura de nivel directa a través de un tubo transparente.

Está equipado con dos válvulas de aguja par aislar el tubo de lectura (el tubo puede ser de plástico o de vidrio).

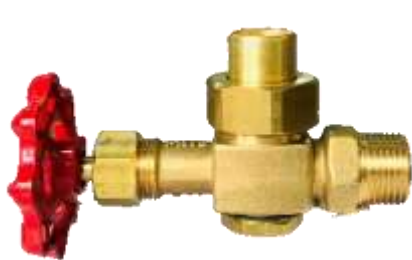
Se utiliza para mostrar niveles de líquidos limpios, no agresivos, de baja presión y temperatura ambiente.

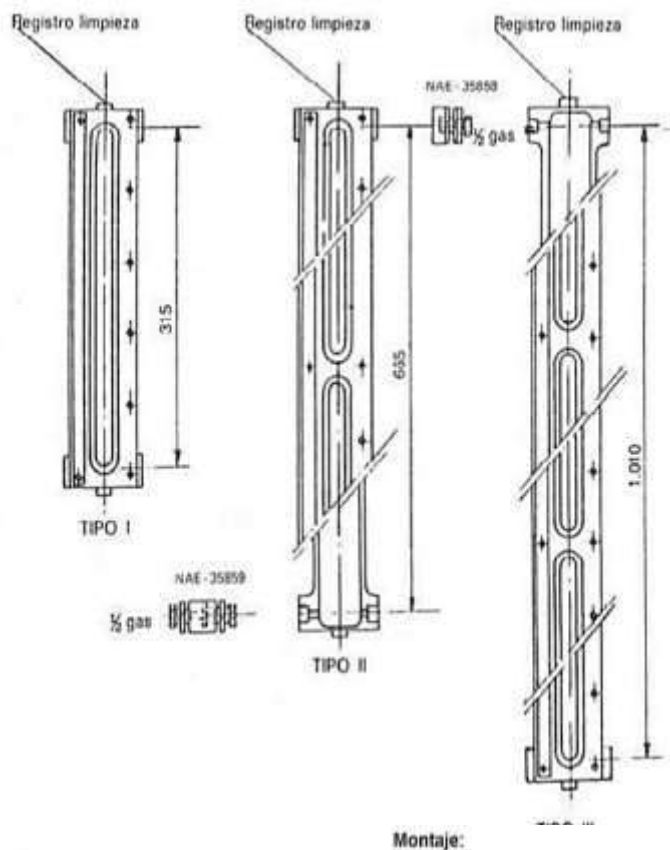
| LIMITES DE USO |             |
|----------------|-------------|
| PD Fluido      | 10 Bar      |
| Fluido TS      | -10°C/+90°C |

| Materiales         |                  |
|--------------------|------------------|
| Cuerpo             | Latón CW 614 N   |
| Tuerca de sujeción | Latón            |
| Anillo             | Latón            |
| Volante            | Aluminio         |
| Purga              | Latón            |
| Sello              | Silicona         |
| Tubo               | Vaso de Plástico |

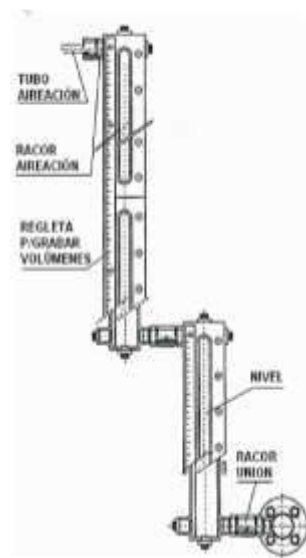


| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |          |                         |    |    |    |    |    |    |    |                                       |
|-------------------------------------------|----------|-------------------------|----|----|----|----|----|----|----|---------------------------------------|
| REF.                                      | DN       | DIMENSIONES- DIMENSIONS |    |    |    |    |    |    |    | Peso aprox /<br>Weight approx<br>(KG) |
|                                           |          | Tubo                    | A  | A1 | B  | H1 | H2 | C  | V  |                                       |
| JNLOOM16                                  | G 1/2" M | 16                      | 43 | 19 | 42 | 71 | 42 | 18 | 55 | 0,7                                   |





Montaje:



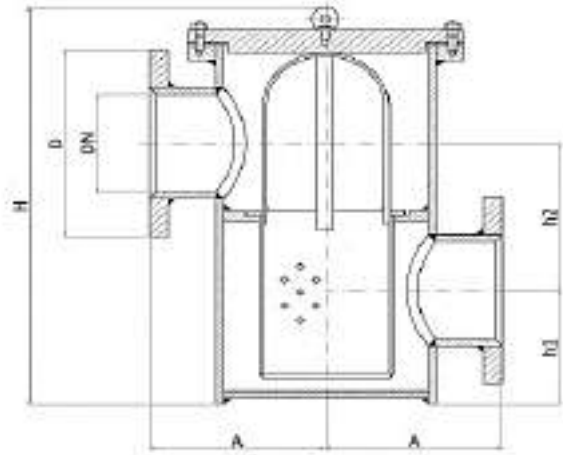
**MATERIALES:**

|          |               |
|----------|---------------|
| CUERPO:  | ACERO CARBONO |
| REGLETA: | LATÓN         |
| MIRILLA: | VIDRIO        |

Construcción según NAE-35856

Cada nivel dispone de 4 tomas de 1/2" con 2 con tapones y con 2 para conexión de grifo F<sup>a</sup>251 con adaptador de tubo a tanque, aparte de esto en cada extremo hay un registro de limpieza.

| TIPO | REF.     | PARA TANQUES DE m/m de altura |              |                |                |                |                |                |             |
|------|----------|-------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|-------------|
|      |          | 375 A<br>475                  | 725 A<br>825 | 1075 A<br>1175 | 1390 A<br>1490 | 1740 A<br>1840 | 2090 A<br>2190 | 2405 A<br>2505 | 2755 A 2855 |
| I    | NIN32301 | 1                             |              |                |                |                |                | 1              |             |
| II   | NIN32302 |                               | 1            |                | 2              | 1              |                |                | 1           |
| III  | NIN32303 |                               |              | 1              |                | 1              | 2              | 2              | 2           |

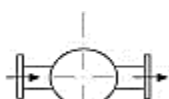


NORMAS DIN – DIMENSIONES EN MILÍMETROS

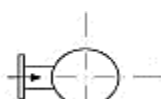
| REF      | DN  | A     | ALTURAS |     | D    | H    |
|----------|-----|-------|---------|-----|------|------|
|          |     |       | H1      | H2  |      |      |
| FILZ2001 | 40  | 100   | 70      | 70  | 150  | 270  |
| FILZ2002 | 50  | 115   | 75      | 80  | 165  | 280  |
| -        | 70  | 125   | 95      | 110 | 185  | 340  |
| FILZ2003 | 80  | 150   | 110     | 125 | 200  | 375  |
| FILZ2004 | 100 | 180   | 120     | 140 | 220  | 420  |
| FILZ2005 | 125 | 210   | 150     | 185 | 250  | 510  |
| FILZ2006 | 150 | 225   | 175     | 225 | 285  | 600  |
| FILZ2008 | 200 | 275   | 220     | 300 | 340  | 740  |
| FILZ2010 | 250 | 331,5 | 250     | 325 | 395  | 875  |
| FILZ2012 | 300 | 331,5 | 250     | 325 | 445  | 875  |
| FILZ2014 | 350 | 380   | 375     | 400 | 505  | 1050 |
| FILZ2016 | 400 | 405   | 375     | 400 | 565  | 1200 |
| FILZ2018 | 450 | 460   | 413     | 450 | 615  | 1300 |
| FILZ2020 | 500 | 500   | 480     | 550 | 670  | 1500 |
| FILZ2022 | 600 | 600   | 570     | 600 | 780  | 1700 |
| FILZ2024 | 700 | 700   | 590     | 740 | 895  | 1750 |
| FILZ2026 | 800 | 800   | 610     | 880 | 1015 | 2100 |

-Se utilizan para filtros de tomas de mar y servicios de agua en general.

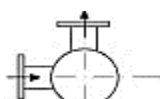
-Se fabrican de **FUNDICIÓN** (acero, acero Inox, bronce, nodular, hierro) **SEGÚN NAE-4610910, NAE-4611010 Y NAE-4611110.**



TIPO "A"  
NAE-4610910



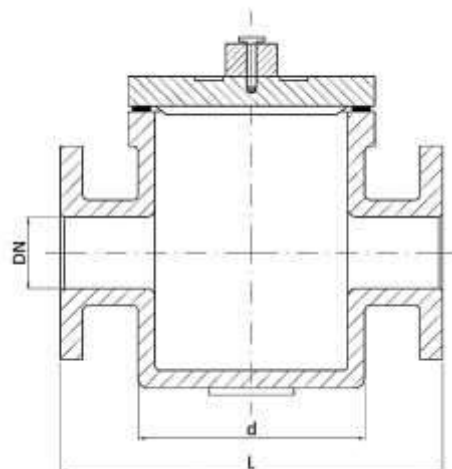
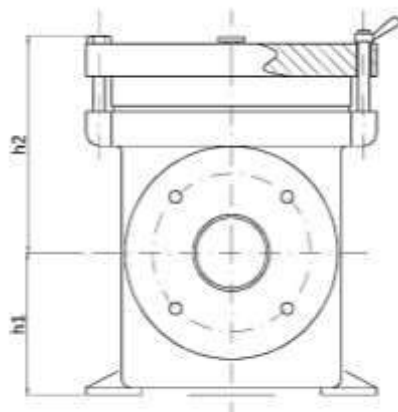
TIPO "B"  
NAE-4611010



TIPO "C"  
NAE-4611110

| DENOMINACIÓN | MATERIAL                                                        |
|--------------|-----------------------------------------------------------------|
| CUERPO       | ACERO LAMINADO SOLDADO<br>ACERO LAMINADO SOLDADO<br>GALVANIZADO |
| CANASTA      | ACERO INOXIDABLE - CUNI                                         |
| JUNTAS       | NEOPRENO - KLINGERIT                                            |

-Para otros materiales, dimensiones o normas por favor consultar.



NORMAS DIN – DIMENSIONES EN MILÍMETROS

| REF      | DN  | A   | ALTURAS |     | M   |
|----------|-----|-----|---------|-----|-----|
|          |     |     | H1      | H2  |     |
| CAFAPA1M | 40  | 270 | 100     | 157 | 155 |
| CAFAPA02 | 50  | 270 | 100     | 157 | 155 |
| CAFAPA2M | 65  | 325 | 140     | 182 | 185 |
| CAFAPA03 | 80  | 325 | 140     | 182 | 185 |
| CAFAPA04 | 100 | 350 | 170     | 190 | 230 |
| CAFAPA05 | 125 | 350 | 170     | 190 | 230 |
| CAFAPA06 | 150 | 430 | 190     | 220 | 260 |
| CAFAPA08 | 200 | 510 | 265     | 235 | 330 |
| CAFAPA10 | 250 | 570 | 295     | 250 | 370 |
| CAFAPA12 | 300 | 620 | 310     | 300 | 420 |
| CAFAPA14 | 350 | 775 | 350     | 430 | 550 |
| CAFAPA16 | 400 | 900 | 400     | 600 | 640 |

-Su utilidad es para todas las tuberías de achique, lastre, circulación y filtración de fondo.

-Las cajas de DN175, DN200 Y DN250, llevan cuatro trincas, para diámetros mayores, espárragos y tuercas.

**NOTA:** Para otros materiales, dimensiones o normas por favor consultar.

| DENOMINACIÓN | MATERIAL                              |
|--------------|---------------------------------------|
| CUERPO/TAPA  | BRONCE                                |
|              | ACERO MOLDEADO                        |
|              | HIERRO FUNDIDO<br>FUNDICIÓN NODULAR   |
| CANASTA      | ACERO INOXIDABLE<br>ACERO GALVANIZADO |



CAJAS DE FANGO REDONDA PASO RECTO  
CAST IRON MUD BOX STRAIGHT TYPE

VALVULERIA Y FERRETERIA NAVAL

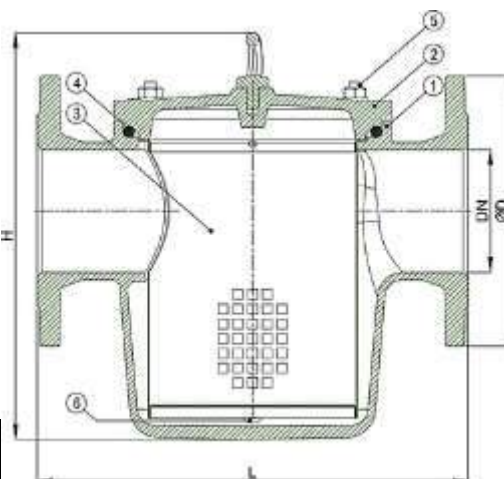
SUMINISTROS BENI SL



INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

|                       |                                                                                                                                                    |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| DISEÑO                | DIN 87151 D - CON PERNOS FIJOS Y TUERCAS                                                                                                           |
| -                     | DIN 87151 - STRAIGHT TYPE                                                                                                                          |
| DIMENSIÓN DE LA BRIDA | BRIDAS DIN SEGÚN EN 1092-2/B (DIN 2501)                                                                                                            |
| CONEXIÓN DE BRIDA     | PN10/16                                                                                                                                            |
| OPCIONES              | TUERCAS DE ARCO DE LATÓN, CESTA DE CUNIFE O TAPÓN DE AIRE DE PERFORACIÓN ESPECIAL O VÁLVULA DE VENTILACIÓN EN LA CUBIERTA, ALIMENTACIÓN DE MONTAJE |

- Las cajas de fango de hierro fundido con longitud cara a cara DIN y tapón de drenaje se instalan en tuberías de aspiración a bordo de los depósitos para proteger las bombas contra los sólidos de gran tamaño. La perforación estándar de la cesta es de 5 mm cuadrados para DN 40 a DN 65 y de 8 mm cuadrados para DN 80 a DN 300. Como opción, la perforación de la cesta puede ser de 3 mm u otra perforación especial. La tapa se monta con espárragos y tuercas hexagonales. Tapa fácilmente desmontable para su limpieza. Aumento del volumen de la cesta y disminución del tiempo de servicio.
- Aplicación: Especialmente para líneas de aspiración y descarga de agua de refrigeración del mar y sistemas de sentina.



| PART NO. | COMPONENTES            | MATERIAL        |            |         |
|----------|------------------------|-----------------|------------|---------|
| 1        | CUERPO/ BODY           | EN-GJL250       | EN-JL 1040 | GG25    |
| 2        | TAPA                   | EN-GJL250       | EN-JL 1040 | GG25    |
| 3        | CESTA                  | X5CRNIMO17-12-2 | 1.4401     | AISI316 |
| 4        | SELLADO DE LA CUBIERTA | NBR             | NBR        | NBR     |
| 5        | PERNOS, TUERCAS        | ACERO           | ACERO      | ACERO   |
| 6        | TAPÓN DE DRENAJE       | LATON           | LATON      | LATON   |

RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE Y TEMPERATURE RANGES

|                |                 | PRESIÓN DE PRUEBA<br>HIDRAULICA [bar] |
|----------------|-----------------|---------------------------------------|
| PERFORAR       | PRESION NOMINAL | CUBIERTA                              |
| DN 40 - DN 300 | PN4             | 6                                     |

| REF      | DN<br>[mm] | Brida<br>Conexión | ØD<br>[mm] | L<br>[mm] | H<br>[mm] | PESO<br>[kg] | CÓDIGO<br>IMPA |
|----------|------------|-------------------|------------|-----------|-----------|--------------|----------------|
| CAFAMA1M | 40         | PN10              | 150        | 200       | 192       | 8.5          | 872065         |
| CAFAMA02 | 50         | PN10              | 165        | 230       | 209       | 12           | 872066         |
| CAFAMA2M | 65         | PN10              | 185        | 290       | 250       | 16           | 872067         |
| CAFAMA03 | 80         | PN10              | 200        | 310       | 275       | 20           | 872068         |
| CAFAMA04 | 100        | PN10              | 220        | 350       | 331       | 28           | 872069         |
| CAFAMA05 | 125        | PN10              | 250        | 400       | 392       | 39           | 872070         |
| CAFAMA06 | 150        | PN10              | 285        | 480       | 446       | 62           | 872071         |
| CAFAMA08 | 200        | PN10              | 340        | 600       | 549       | 103          | 872072         |
| CAFAMA10 | 250        | PN10              | 395        | 600       | 587       | 141          | 872073         |
| CAFAMA12 | 300        | PN10              | 445        | 600       | 660       | 189          | 872074         |

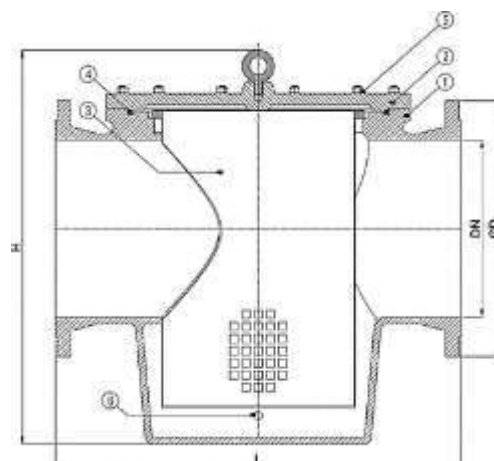




## INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

|                       |                                                   |
|-----------------------|---------------------------------------------------|
| DISEÑO                | DIN 87151 D - CON PERNOS FIJOS Y TUERCAS          |
| -                     | DIN 87151 - STRAIGHT TYPE                         |
| DIMENSIÓN DE LA BRIDA | BRIDAS DIN SEGÚN EN 1092-2/B (DIN 2501)           |
| CONEXIÓN DE BRIDA     | PN10/16                                           |
| OPCIONES              | PERFORACIÓN ESPECIAL DE LA BRIDA SEGÚN ANSI O JIS |

- Las cajas de fango de acero inoxidable con longitud cara a cara DIN y tapón de vaciado se instalan en las tuberías de aspiración de los recipientes para proteger las bombas contra los sólidos grandes. La perforación estándar de la cesta es de 8 mm cuadrados. Como opción, la perforación de la cesta puede ser de 3 mm, 5 mm u otra perforación especial. La tapa se monta con espárragos y tuercas hexagonales.
- Aplicación: Especialmente para líneas de aspiración y descarga de agua de refrigeración marina y sistemas de achique.

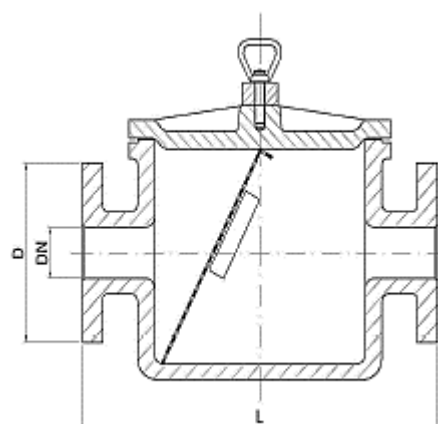
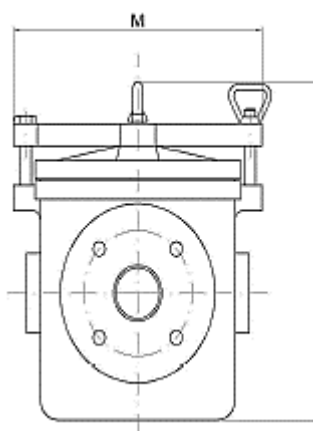


| PART NO. | COMPONENTES            | MATERIAL         |        |         |
|----------|------------------------|------------------|--------|---------|
| 1        | CUERPO/ BODY           | GX5CrNiMo19-11-2 | 1.4408 | AISI316 |
| 2        | TAPA                   | GX5CrNiMo19-11-2 | 1.4408 | AISI316 |
| 3        | CESTA                  | X5CrNiMo17-12-2  | 1.4401 | AISI316 |
| 4        | SELLADO DE LA CUBIERTA | NBR              | NBR    | NBR     |
| 5        | PERNOS, TUERCAS        | X5CrNiMo17       | 1.4401 | A4      |
| 6        | TAPÓN DE DRENAJE       | X5CrNiMo17       | 1.4401 | AISI316 |

## RANGOS DE PRESIÓN Y TEMPERATURA – PRESSURE AND TEMPERATURE RANGES

|                 |                 | PRESIÓN DE PRUEBA<br>HIDRAULICA [bar] |
|-----------------|-----------------|---------------------------------------|
| PERFORAR        | PRESION NOMINAL | CUBIERTA                              |
| DN 350 - DN 450 | PN4             | 6                                     |
| DN 500 – DN 700 | PN2.5           | 3.8                                   |

| DN<br>[mm] | Brida<br>Conexión | ØD<br>[mm] | L<br>[mm] | H<br>[mm] | Drenaje<br>Tapón | Aire<br>Tapón |
|------------|-------------------|------------|-----------|-----------|------------------|---------------|
| 350        | PN10              | 505        | 610       | 750       | 8x8              | R1"           |
| 350        | PN10              | 505        | 690       | 750       | 8x8              | R1"           |
| 350        | PN10              | 505        | 800       | 750       | 8x8              | R1"           |
| 400        | PN10              | 565        | 740       | 900       | 8x8              | R1"           |
| 450        | PN10              | 615        | 1000      | 1000      | 8x8              | R1"           |
| 500        | PN10              | 670        | 1100      | 1210      | 8x8              | R1"           |
| 600        | PN10              | 780        | 1100      | 1100      | 8x8              | R1 1/2"       |
| 700        | PN10              | 895        | 1250      | 1150      | 8x8              | R1 1/2"       |
| 350        | PN10              | 505        | 610       | 750       | 8x8              | R1"           |
| 350        | PN10              | 505        | 690       | 750       | 8x8              | R1"           |



| DENOMINACIÓN | MATERIAL           |
|--------------|--------------------|
| CUERPO/TAPA  | -BRONCE            |
|              | -ACERO MOLDEADO    |
|              | -HIERRO FUNDIDO    |
|              | -FUNDICIÓN NODULAR |
| CANASTA      | -ACERO INOXIDABLE  |
|              | -ACEO GALVANIZADO  |

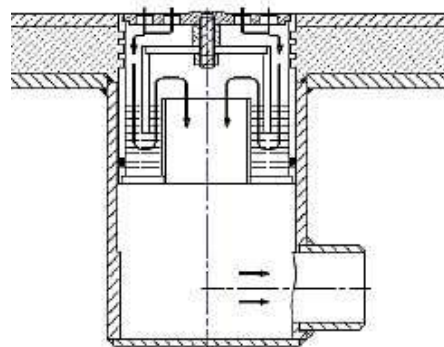
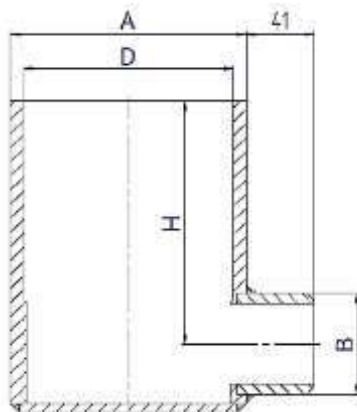
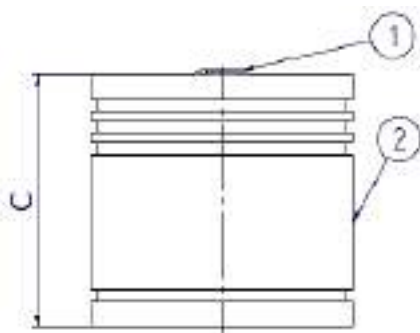
**NOTAS:**

-De uso para todas las tuberías de achique, Lastre, Circulación y Filtros de Fondo.

-Las cajas de DN40 a DN80 llevan un puente en la tapa, de DN100 a DN150 llevan dos puentes, mayores de DN150 llevan tapa con espárragos y tuercas.

**Otros materiales, dimensiones o normas, consultar.**

| SEGÚN NAE-4620200                      |     |     |     |      |      |
|----------------------------------------|-----|-----|-----|------|------|
| NORMAS DIN – DIMENSIONES EN MILÍMETROS |     |     |     |      |      |
| REF                                    | DN  | D   | H   | L    | M    |
| -                                      | 40  | 150 | 307 | 320  | 2158 |
| CAFA3435                               | 50  | 165 | 307 | 320  | 215  |
| -                                      | 65  | 185 | 411 | 410  | 296  |
| CAFA4433                               | 80  | 200 | 411 | 410  | 296  |
| -                                      | 100 | 220 | 455 | 440  | 329  |
| -                                      | 125 | 250 | 491 | 490  | 374  |
| -                                      | 160 | 285 | 491 | 490  | 374  |
| -                                      | 200 | 340 | 668 | 750  | 505  |
| -                                      | 250 | 395 | 680 | 1000 | 600  |


**MONTAJE TÍPICO**  
*Typical Assembly*


| DESCRIPCIÓN COMPONENTES - COMPONENTS DESCRIPTION |                           |                     |
|--------------------------------------------------|---------------------------|---------------------|
| Ítem                                             | Descripción - Description | Material - Material |
| 1                                                | Rejilla - Grip            | RG-5/ AISI 316      |
| 2                                                | Cuerpo - Body             | PVC                 |

**INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION**

| REF      | DN    | A     | B    | C   | H        |          |     | D     | MATERIAL    |
|----------|-------|-------|------|-----|----------|----------|-----|-------|-------------|
|          |       |       |      |     | ESTÁNDAR | ESPECIAL |     |       |             |
| IMG10102 | 2"    | 141,3 | 60,3 | 120 | 116      | 160      | 191 | 126   | Acero       |
| IMG1001M | 11/2" | 101,3 | 48,3 | 110 | 101      | 150      | 181 | 92    | Galvanizado |
| IMAL1002 | 2"    | 140   | 55   | 120 | 116      | 160      | 191 | 126,3 | Aluminio    |
| IMAL101M | 11/2" | 100   | 50   | 110 | 101      | 150      | 181 | 92    | 6060/6082   |

**Posibilidad de fabricación en otros materiales.**

Manufacturing in other materials also available.

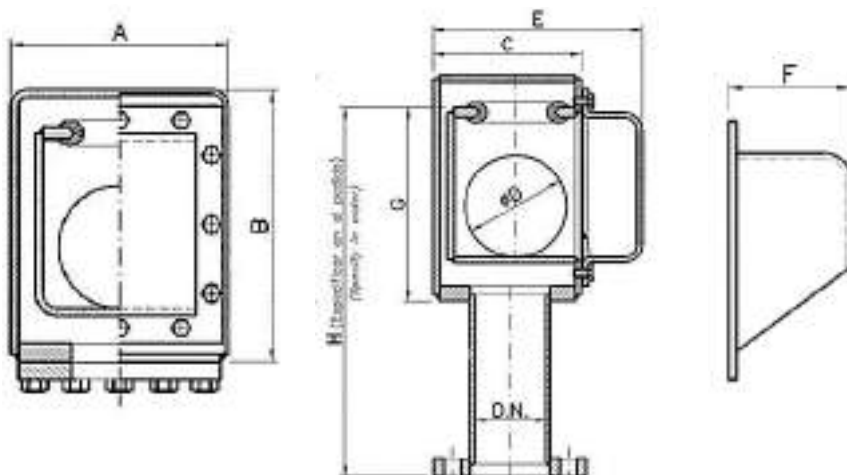
**Para medidas especiales mayores que la "H" estándar, se pueden ofertar alturas especiales de interno "c".**

For special sizes bigger than standart "H" it is posible to offer special sizes "C".

VÁLVULA AIREACIÓN / ATMOSFÉRICO ZINCADO  
ONE TYPE TANK VESTING SYSTEMS

VALVULERIA Y FERRETERIA NAVAL

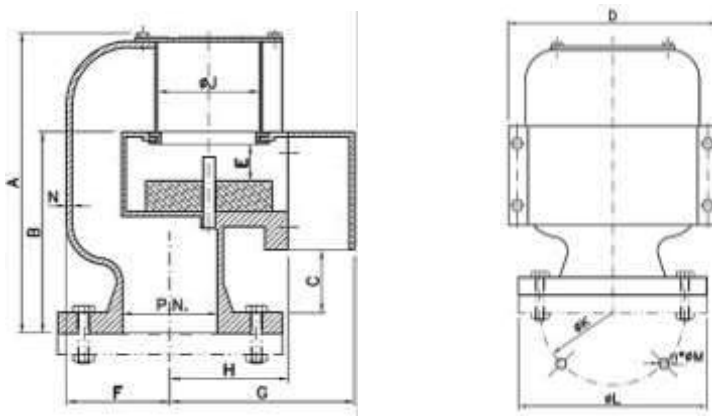
SUMINISTROS BENI SL



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF      | DN  | A   | B   | C   | øD  | E   | F   | G   | PESO |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| VATMF050 | 50  | 132 | 178 | 110 | 80  | 160 | 49  | 154 | 8,2  |
| VATMF065 | 65  | 164 | 208 | 128 | 96  | 183 | 69  | 179 | 10,8 |
| VATMF080 | 80  | 195 | 247 | 147 | 109 | 208 | 89  | 211 | 18,2 |
| VATMF100 | 100 | 240 | 303 | 183 | 140 | 255 | 110 | 258 | 27,5 |
| VATMF125 | 125 | 295 | 374 | 226 | 175 | 313 | 136 | 319 | 47,6 |
| VATMF150 | 150 | 349 | 444 | 270 | 215 | 376 | 160 | 379 | 66,5 |
| VATMF200 | 200 | 472 | 570 | 376 | 296 | 514 | 207 | 487 | 137  |
| VATMF250 | 250 | 557 | 754 | 432 | 340 | 587 | 252 | 648 | 194  |

VÁLVULA AIREACIÓN / ATMOSFÉRICO  
FUNDICIÓN  
TANK VENT VALVE



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF      | DN  | A   | B   | C   | D   | E  | F   | G   | H   | øJ  | øK  | øL  | n*øm  | N | Peso |
|----------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-------|---|------|
| VATM2050 | 50  | 180 | 120 | 50  | 135 | 17 | 70  | 95  | 67  | 50  | 125 | 165 | 4-ø18 | 6 | 8,2  |
| VATM2065 | 65  | 205 | 140 | 60  | 155 | 22 | 80  | 115 | 80  | 65  | 145 | 185 | 4-ø18 | 7 | 11   |
| VATM2080 | 80  | 245 | 160 | 70  | 190 | 27 | 90  | 143 | 90  | 80  | 160 | 200 | 4-ø18 | 7 | 14,4 |
| VATM2100 | 100 | 270 | 180 | 75  | 225 | 35 | 105 | 160 | 110 | 100 | 180 | 220 | 4-ø18 | 7 | 20   |
| VATM2125 | 125 | 310 | 205 | 80  | 265 | 44 | 125 | 195 | 130 | 125 | 210 | 250 | 4-ø18 | 8 | 30   |
| VATM2150 | 150 | 350 | 225 | 90  | 300 | 53 | 155 | 225 | 150 | 150 | 240 | 285 | 4-ø22 | 8 | 41   |
| VATM2200 | 200 | 440 | 275 | 100 | 400 | 70 | 200 | 295 | 180 | 200 | 295 | 340 | 4-ø22 | 9 | 65,5 |

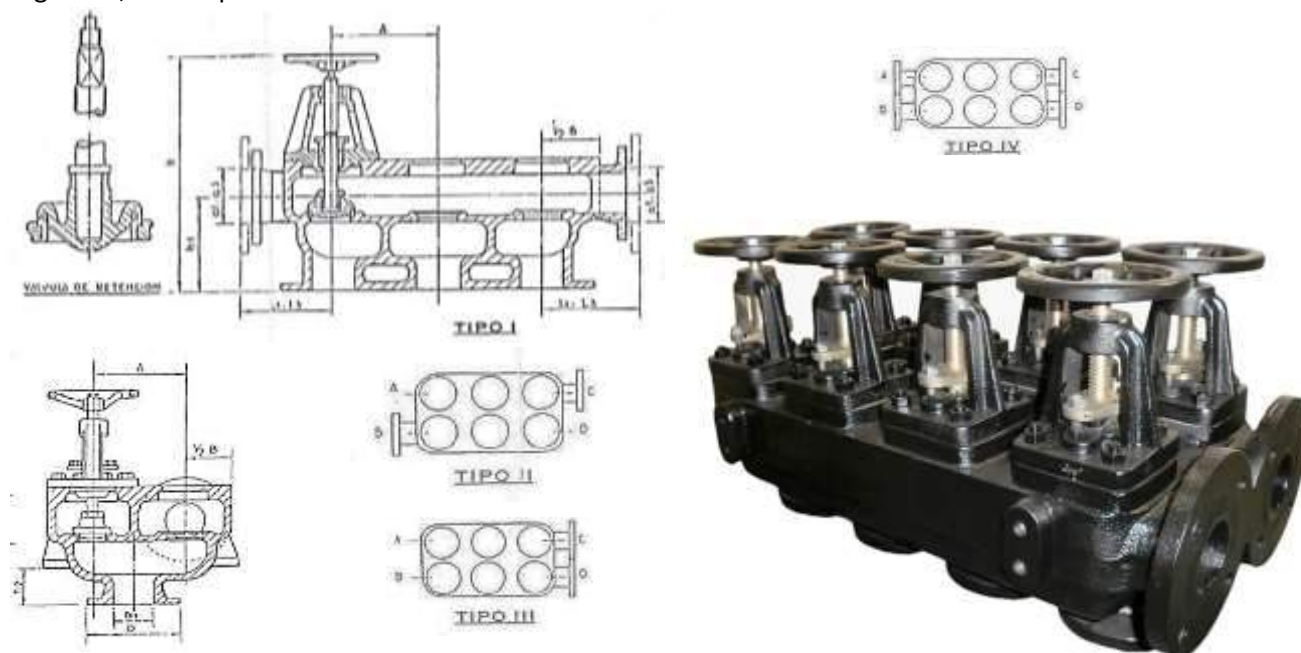


Los tipos se refieren a la situación de las bocas principales a, b, c y d.

Las cajas de válvulas de aspiración y descarga se fabrican con 4,6,8 y más elementos.

Todas las bocas de entrada son del mismo diámetro, sin embargo, las bocas de salida principales pueden tener diferentes dimensiones según se indica en la tabla.

Todas las cajas de válvulas pueden construirse con obturadores de retención y cierra, o con obturadores de enganche, total o parcialmente.



#### DIMENSIONES EN M/M:

| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |     |     |         |     |     |     |     |     |       |       |       |       |
|--------------------------------------------|-----|-----|---------|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| DN                                         | D   | A   | ALTURAS |     |     | B   | A1  | L1  | A2    | L2    | A3    | L3    |
|                                            |     |     | H       | H1  | H2  |     |     |     |       |       |       |       |
| 32                                         | 140 | 145 | 285     | 120 | 60  | 105 | 32  | 90  | 40    | 100   | ***** | ***** |
| 40                                         | 150 | 155 | 335     | 130 | 60  | 120 | 40  | 100 | 50    | 115   | ***** | ***** |
| 50                                         | 165 | 175 | 400     | 155 | 66  | 140 | 50  | 115 | 65    | 145   | ***** | ***** |
| 65                                         | 185 | 190 | 455     | 185 | 74  | 176 | 65  | 145 | 80    | 155   | 100   | ***** |
| 80                                         | 200 | 205 | 485     | 200 | 82  | 188 | 80  | 155 | 100   | 175   | 125   | 175   |
| 100                                        | 220 | 225 | 550     | 235 | 108 | 210 | 100 | 175 | 125   | 200   | 150   | 200   |
| 125                                        | 250 | 260 | 575     | 270 | 117 | 260 | 125 | 200 | 150   | 225   | 175   | 225   |
| 150                                        | 285 | 295 | 675     | 320 | 154 | 290 | 150 | 225 | 175   | 255   | 200   | 255   |
| 175                                        | 315 | 325 | 795     | 365 | 182 | 320 | 175 | 255 | 200   | 275   | ***** | 255   |
| 200                                        | 340 | 355 | 845     | 400 | 200 | 345 | 200 | 275 | 225   | 290   | ***** | ***** |
| 225                                        | 370 | 385 | 1025    | 480 | 200 | 375 | 225 | 290 | 250   | 325   | ***** | ***** |
| 250                                        | 395 | 410 | 1080    | 580 | 200 | 400 | 250 | 325 | ***** | ***** | ***** | ***** |

De uso para todas las tuberías de engrase, petróleo y agua, de baja presión.

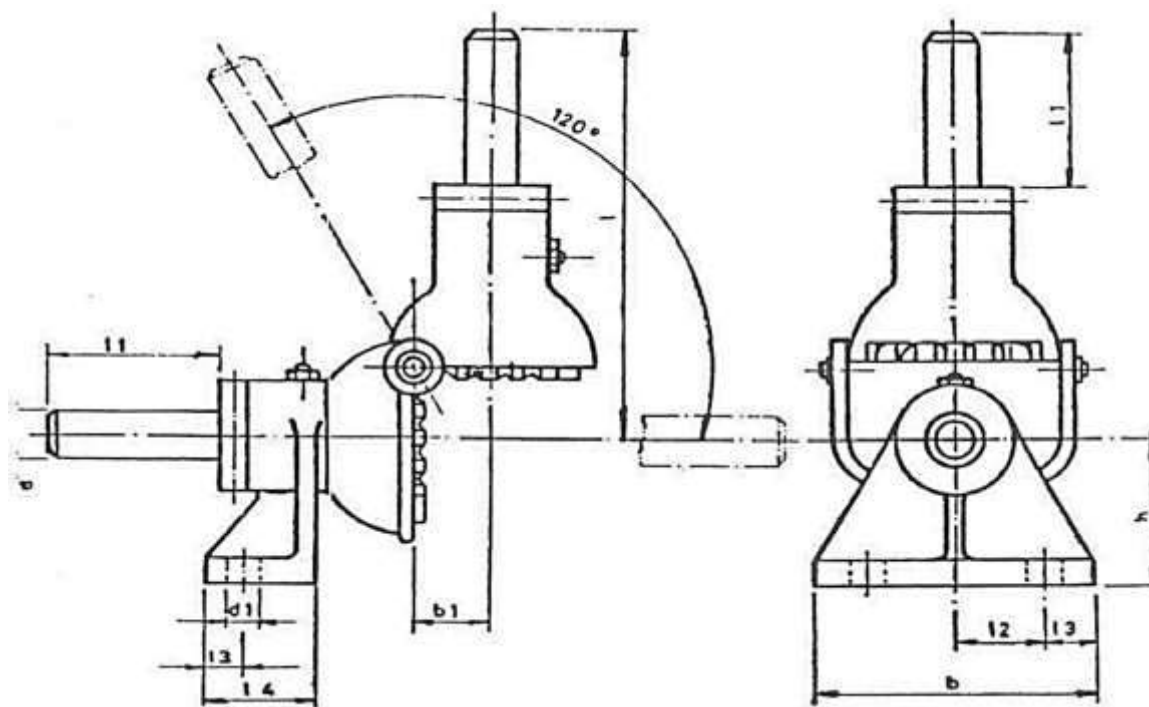
#### materiales:

- Cuerpo, puente y volante: hierro fundido gg-20.
- Asiento y obturador: de bronce, acero, o acero inoxidable. Rg5/Inox. 18-8
- Vástago: de latón naval, acero, o acero inoxidable. Ms59/Inox. 18-8
- Prensa: de latón naval o acero: ms-597gs-45.

TRANSMISIÓN EN ANGULO GRADUABLE  
DE 0° A 120°  
ADJUSTABLE ANGLE TRANSMISSION FROM  
0° TO 120°

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



MATERIALES:

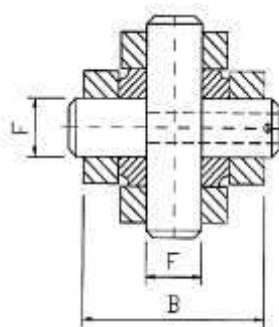
CAJA: F.1.0.20

ENGRAN: F.114

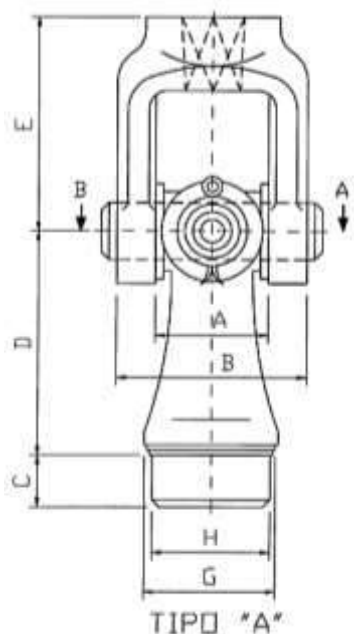
ARBOL: F.114

NOTA: PARA ELEGIR TAMAÑO VER FIG.340

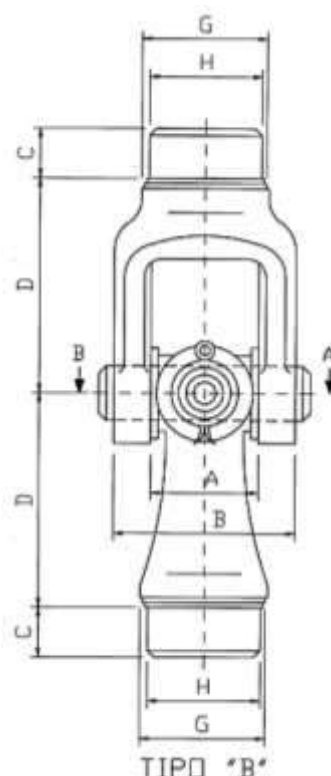
| Tamaño d<br>Nominal |    | b   | b1 | d1 | h   | l   | l1 | l2 | l3 | l4 | Peso en<br>Kg |
|---------------------|----|-----|----|----|-----|-----|----|----|----|----|---------------|
| 22                  | 20 | 100 | 25 | 15 | 60  | 155 | 50 | 35 | 15 | 40 | 3             |
| 26                  | 25 |     |    |    |     |     |    |    |    |    | 4             |
| 38                  | 32 |     |    |    |     |     |    |    |    |    | 5             |
| 45                  | 40 | 184 | 47 | 22 | 100 | 237 | 60 | 70 | 22 | 70 | 15            |
| 52                  | 45 |     |    |    |     |     |    |    |    |    | 13            |



SECCION A-B



TIPO "A"



TIPO "B"

**Materiales:**

-Horquilla

Acero

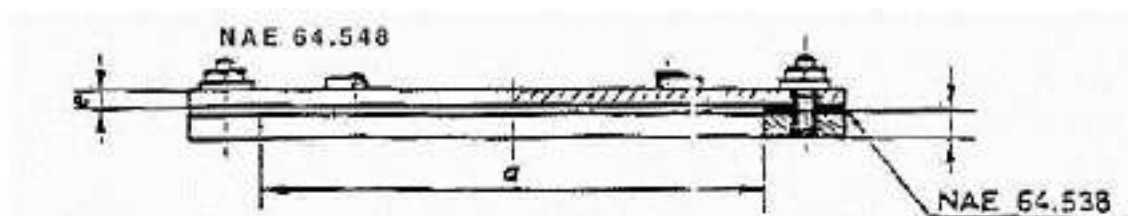
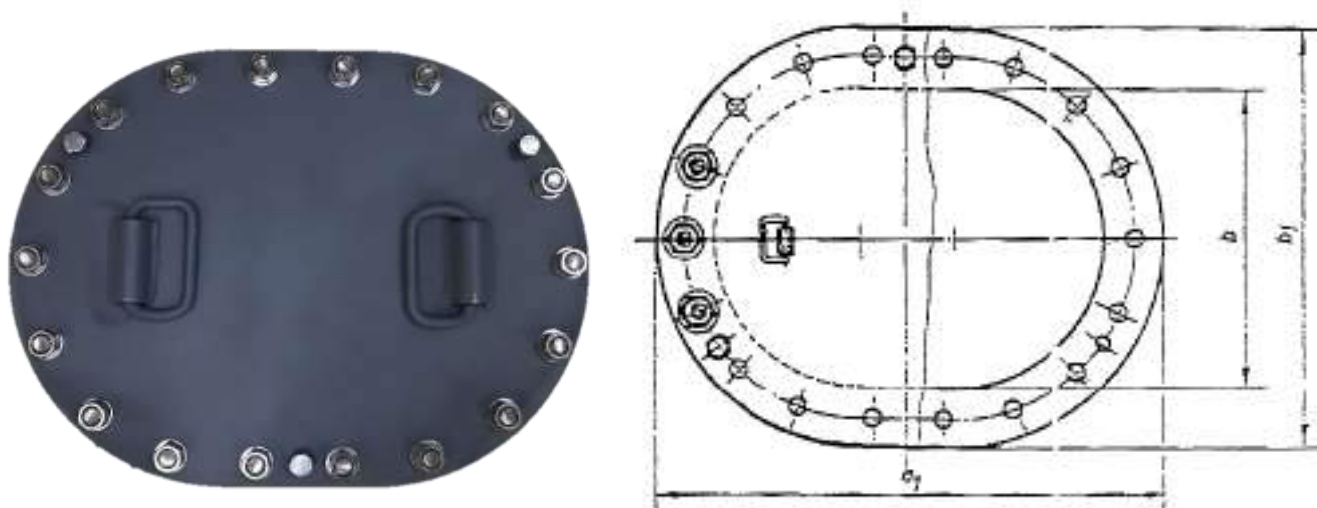
-Cruz de Giro:

Latón estampado

▪ Norma: DIN-87345

▪ Si lo desean podemos suministrar  
s/NAE-4661000 (TIPO "A")**INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION**

| REF.     | TAMAÑO<br>NOMINAL | CUADRADO | A  | B  | C  | D  | E         | F  | G  | H    | PESO KG |       |
|----------|-------------------|----------|----|----|----|----|-----------|----|----|------|---------|-------|
|          |                   |          |    |    |    |    |           |    |    |      | A       | B     |
| ART51B22 | 22                | 9 / 11   | 22 | 36 | 12 | 30 | 48 / 49   | 11 | 25 | 21,5 | 0,272   | 0,297 |
| ART51B26 | 26                | 12 / 13  | 26 | 44 | 14 | 36 | 54 / 55   | 13 | 34 | 25,5 | 0,48    | 0,54  |
| ART51B32 | 32                | 14 / 16  | 32 | 54 | 15 | 45 | 63 / 65   | 16 | 38 | 33,5 | 0,837   | 0,897 |
| ART51B38 | 38                | 17 / 19  | 38 | 64 | 17 | 53 | 71 / 75   | 19 | 45 | 40   | 1,37    | 1,92  |
| ART51B45 | 45                | 24 / 27  | 45 | 77 | 19 | 63 | 84 / 88   | 22 | 57 | 52   | 2,41    | 3,07  |
| ART51B52 | 52                | 32 / 36  | 52 | 90 | 22 | 73 | 104 / 114 | 25 | 70 | 64,5 | 4,15    | 4,7   |

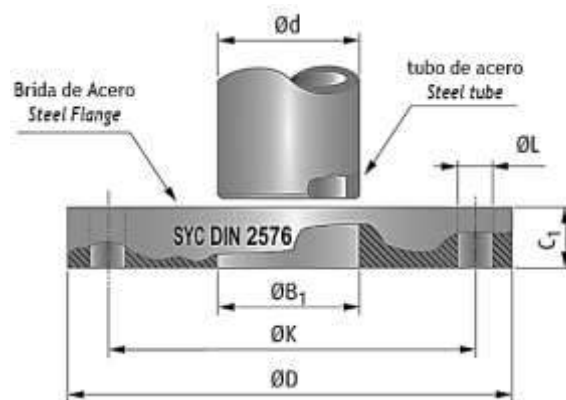


MATERIALES:

ARO → A 360 B

TAPA → A 360 B

| REF      | Nº GUIA | D x B x E  | A1  | B1  | Nº ESPARRAGOS | ROSCA |
|----------|---------|------------|-----|-----|---------------|-------|
| RESE4832 | 59      | 480X320X12 | 600 | 440 | 18            | M20   |
| RESE6242 | 122     | 530X370X12 | 650 | 490 | 18            | M20   |
| RESE5337 | 221     | 640X420X12 | 740 | 540 | 22            | M20   |



## CARACTERÍSTICAS BÁSICAS

- Brida conforme DIN 2576 (y UNE-EN 1092-1 si señalada con X).
- Material: Acero S235JR conforme a UNE-EN 10025-2 (RSt 37.2).
- Tipo de refrentado: Tipo A, Cara Plana.
- Todas las instalaciones deben cumplir los valores P-T según los requisitos legales especificados.
- Marcado: SYC; DIN 2576; DN/Ød; MATERIAL; PN; Nº COLADA.
- (X): SYC; EN 1092-1/01; DIN 2576; DN/Ød; MATERIAL; PN; Nº COLADA.

## BASIC FEATURES

- Flange according to DIN 2576 (and EN 1092-1 if checked with X).
- Material: Steel S235JR according to EN 10025-2 (RSt 37.2).
- Flange facing type: Type A, Flat Face.
- All installations has to meet the P-T values specified in the legal requirements.
- Marking: SYC; DIN 2576; DN/Ød; MATERIAL; PN; HEAT Number.
- (X): SYC; EN 1092-1/01; DIN 2576; DN/Ød; MATERIAL; PN; HEAT Number.

## INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

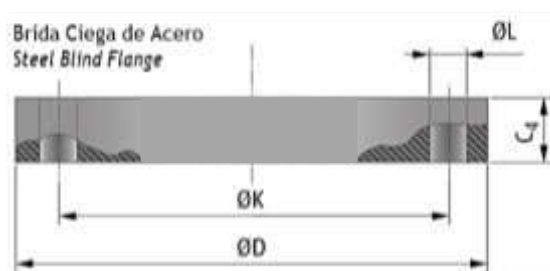
| Designación - Designation |                             |        |         | Brida - Flange |                                       |                                                                |                                                 |                                    |                      | Tornillos - Bolting |                      |
|---------------------------|-----------------------------|--------|---------|----------------|---------------------------------------|----------------------------------------------------------------|-------------------------------------------------|------------------------------------|----------------------|---------------------|----------------------|
| REF                       | Tubo de Acero<br>Steel tube |        |         | PN             | Diámetro exterior<br>Outside diameter | Diámetro del círculo para tornillos<br>Diameter of bolt circle | Diámetro para tornillo<br>Diameter of bolt hole | Diámetro interior<br>Bore diameter | Espesor<br>Thickness | Número<br>Number    | Diámetro<br>Diameter |
|                           | DN                          | NPS    | Ød (mm) |                | ØD (mm)                               | ØK (mm)                                                        | ØL (mm)                                         | ØB <sub>1</sub> (mm)               | C <sub>1</sub> (mm)  | nr (nº)             | Ø (mm)               |
| B2576015                  | 15                          | 1/2"   | 21,3    | 10/16          | 95± 2,0                               | 65± 1,0                                                        | 14+1,0/0                                        | 22,0± 0,5/0                        | 14+1,0/-1,3          | 4                   | M12                  |
| B2576020                  | 20                          | 3/4"   | 26,9    | 10/16          | 105± 2,0                              | 75± 1,0                                                        | 14+1,0/0                                        | 27,5± 0,5/0                        | 16+1,0/-1,3          | 4                   | M12                  |
| B2576025                  | 25                          | 1"     | 33,7    | 10/16          | 115± 2,0                              | 85± 1,0                                                        | 14+1,0/0                                        | 34,5± 0,5/0                        | 16+1,0/-1,3          | 4                   | M12                  |
| B2576032                  | 32                          | 1 1/4" | 42,4    | 10/16          | 140± 2,0                              | 100± 1,0                                                       | 18+1,0/0                                        | 43,5± 0,5/0                        | 16+1,0/-1,3          | 4                   | M16                  |
| B2576040                  | 40                          | 1 1/2" | 48,3    | 10/16          | 150± 2,0                              | 110± 1,0                                                       | 18+1,0/0                                        | 49,5± 0,5/0                        | 16+1,0/-1,3          | 4                   | M16                  |
| B2576050                  | 50                          | 2"     | 60,3    | 10/16          | 165± 2,0                              | 125± 1,0                                                       | 18+1,0/0                                        | 61,5± 0,5/0                        | 18± 1,5              | 4                   | M16                  |
| B2576065                  | 65                          | 2 1/2" | 76,1    | 10/16          | 145± 2,0                              | 185± 1,0                                                       | 18+1,0/0                                        | -                                  | 18± 1,5              | 4                   | M16                  |
| B2576080                  | 80                          | 3"     | 88,9    | 10             | 200± 2,0                              | 160± 1,0                                                       | 18+1,0/0                                        | 90,5± 0,5/0                        | 20± 1,5              | 4                   | M16                  |
| B2502080                  | 80                          | 3"     | 88,9    | 16             | 200± 2,0                              | 160± 1,0                                                       | 18+1,0/0                                        | 90,5± 0,5/0                        | 20± 1,5              | 8                   | M16                  |
| B2576101                  | 90                          | 3 1/2" | 101,0   | 10/16          | 210± 2,0                              | 170± 1,0                                                       | 18+1,0/0                                        | 103,6± 0,5/0                       | 18± 1,5              | 4                   | M16                  |
| B2576100                  | 100                         | 4"     | 114,3   | 10/16          | 220± 2,0                              | 180± 1,0                                                       | 18+1,0/0                                        | 116,0± 0,5/0                       | 20± 1,5              | 8                   | M16                  |
| B2576125                  | 125                         | 5"     | 139,7   | 10/16          | 250± 2,0                              | 210± 1,0                                                       | 18+1,0/0                                        | 141,5+1,0/0                        | 22± 1,5              | 8                   | M16                  |
| B2576150                  | 150                         | 6"     | 168,3   | 10/16          | 285± 2,0                              | 240± 1,0                                                       | 22+1,0/0                                        | 170,5+1,0/0                        | 22± 1,5              | 8                   | M20                  |
| B2576175                  | 175                         | 7"     | 193,7   | 10/16          | 315± 3,0                              | 270± 1,0                                                       | 22+1,0/0                                        | 196,1+1,0/0                        | 24± 1,5              | 8                   | M20                  |
| B2576200                  | 200                         | 8"     | 219,1   | 10             | 340± 3,0                              | 295± 1,0                                                       | 22+1,0/0                                        | 221,5+1,0/0                        | 24± 1,5              | 8                   | M20                  |
| B2502200                  | 200                         | 8"     | 219,1   | 16             | 340± 3,0                              | 295± 1,0                                                       | 22+1,0/0                                        | 221,5+1,0/0                        | 24± 1,5              | 12                  | M20                  |
| B2576250                  | 250                         | 10"    | 273,0   | 10             | 395± 3,0                              | 350± 1,0                                                       | 22+1,0/0                                        | 276,5+1,0/0                        | 26± 1,5              | 12                  | M20                  |
| B2576300                  | 300                         | 12"    | 323,9   | 10             | 445± 3,0                              | 400± 1,0                                                       | 22+1,0/0                                        | 327,5+1,0/0                        | 26± 1,5              | 12                  | M20                  |
| B2576350                  | 350                         | 14"    | 355,6   | 10             | 505± 3,0                              | 460± 1,0                                                       | 22+1,0/0                                        | 359,5+1,0/0                        | 28± 1,5              | 16                  | M20                  |
| B2576400                  | 400                         | 16"    | 406,4   | 10             | 565± 3,0                              | 515± 1,0                                                       | 26+1,0/0                                        | 411,0+1,0/0                        | 32± 1,5              | 16                  | M24                  |
| B2576450                  | 450                         | 18"    | 457,0   | 10             | 615± 3,0                              | 565± 1,0                                                       | 26+1,0/0                                        | 462,0+1,5/0                        | 38± 1,5              | 20                  | M24                  |
| B2576500                  | 500                         | 20"    | 508,0   | 10             | 670± 3,0                              | 620± 1,0                                                       | 26+1,0/0                                        | 513,5+1,5/0                        | 38± 1,5              | 20                  | M24                  |



BRIDA CIEGA 2527  
BLIND FLANGE DIN 2527

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



## CARACTERÍSTICAS BÁSICAS

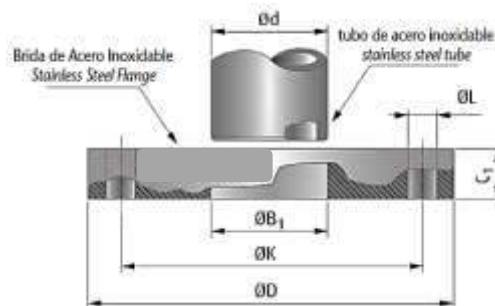
- Brida conforme UNE-EN 1092-1 Tipo 05.
- Material: Acero P245GH conforme a UNE-EN 10222-2.
- Tipo de refrentado: Tipo A, Cara Plana.
- Todas las instalaciones deben cumplir los valores P-T según los requisitos legales especificados.
- Marcado: EN 1092-1/05; DN/Ød; MATERIAL; PN; Nº COLADA.

## BASIC FEATURES

- Flange according to EN 1092-1 Type 05.
- Material: Steel P245GH according to EN 10222-2.
- Flange facing type: Type A, Flat Face.
- All installations has to meet the P-T values specified in the legal requirements.
- Marking: EN 1092-1/05; DN/Ød; MATERIAL; PN; HEAT Number

### INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

| Designación - Designation |                             |        |         | Brida - Flange |                                       |                                                                |                                                 |                      | Tornillos - Bolting |                      |
|---------------------------|-----------------------------|--------|---------|----------------|---------------------------------------|----------------------------------------------------------------|-------------------------------------------------|----------------------|---------------------|----------------------|
| REF                       | Tubo de Acero<br>Steel tube |        |         | PN             | Diámetro exterior<br>Outside diameter | Diámetro del círculo para tornillos<br>Diameter of bolt circle | Diámetro para tornillo<br>Diameter of bolt hole | Espesor<br>Thickness | Número<br>Number    | Diámetro<br>Diameter |
|                           | DN                          | NPS    | Ød (mm) |                | ØD (mm)                               | ØK (mm)                                                        | ØL (mm)                                         | C <sub>1</sub> (mm)  | nr (nº)             | Ø (mm)               |
| B2527015                  | 15                          | 1/2"   | 21,3    | 40             | 95±2,0                                | 65±1,0                                                         | 14+1,0/0                                        | 16+1,0/-1,3          | 4                   | M12                  |
| B2527020                  | 20                          | 3/4"   | 26,9    | 40             | 105±2,0                               | 75±1,0                                                         | 14+1,0/0                                        | 18+1,0/-1,3          | 4                   | M12                  |
| B2527025                  | 25                          | 1"     | 33,7    | 40             | 115±2,0                               | 85±1,0                                                         | 14+1,0/0                                        | 18+1,0/-1,3          | 4                   | M12                  |
| B2527032                  | 32                          | 1 1/4" | 42,4    | 40             | 140±2,0                               | 100±1,0                                                        | 18+1,0/0                                        | 18+1,0/-1,3          | 4                   | M16                  |
| B2527040                  | 40                          | 1 1/2" | 48,3    | 40             | 150±2,0                               | 110±1,0                                                        | 18+1,0/0                                        | 18+1,0/-1,3          | 4                   | M16                  |
| B2527050                  | 50                          | 2"     | 60,3    | 16             | 165±2,0                               | 125±1,0                                                        | 18+1,0/0                                        | 18+1,0/-1,3          | 4                   | M16                  |
| B2527065                  | 65                          | 2 1/2" | 76,1    | 16             | 185±2,0                               | 145±1,0                                                        | 18+1,0/0                                        | 18+1,0/-1,3          | 8                   | M16                  |
| B2527080                  | 80                          | 3"     | 88,9    | 16             | 200±2,0                               | 160±1,0                                                        | 18+1,0/0                                        | 20±1,5               | 8                   | M16                  |
| B2527100                  | 100                         | 4"     | 114,3   | 16             | 220±2,0                               | 180±1,0                                                        | 18+1,0/0                                        | 20±1,5               | 8                   | M16                  |
| B2527125                  | 125                         | 5"     | 139,7   | 16             | 250±2,0                               | 210±1,0                                                        | 18+1,0/0                                        | 22±1,5               | 8                   | M16                  |
| B2527150                  | 150                         | 6"     | 168,3   | 16             | 285±2,0                               | 240±1,0                                                        | 22+1,0/0                                        | 22±1,5               | 8                   | M20                  |
| B2527008                  | 200                         | 8"     | 219,1   | 10             | 340±3,0                               | 295±1,0                                                        | 22+1,0/0                                        | 24±1,5               | 8                   | M20                  |
| B2527608                  | 200                         | 8"     | 219,1   | 16             | 340±3,0                               | 295±1,0                                                        | 22+1,0/0                                        | 24±1,5               | 12                  | M20                  |
| B2527010                  | 250                         | 10"    | 273,0   | 10             | 395±3,0                               | 350±1,0                                                        | 22+1,0/0                                        | 26±1,5               | 12                  | M20                  |
| B2527610                  | 250                         | 10"    | 273,0   | 16             | 405±3,0                               | 355±1,0                                                        | 26+1,0/0                                        | 26±1,5               | 12                  | M24                  |
| B2527012                  | 300                         | 12"    | 323,9   | 10             | 445±3,0                               | 400±1,0                                                        | 22+1,0/0                                        | 26±1,5               | 12                  | M20                  |
| B2527612                  | 300                         | 12"    | 323,9   | 16             | 460±3,0                               | 410±1,0                                                        | 26+1,0/0                                        | 28±1,5               | 12                  | M24                  |
| B2527014                  | 350                         | 14"    | 355,6   | 10             | 505±3,0                               | 460±1,0                                                        | 22+1,0/0                                        | 26±1,5               | 16                  | M20                  |
| B2527614                  | 350                         | 14"    | 355,6   | 16             | 520±3,0                               | 470±1,0                                                        | 26+1,0/0                                        | 30±1,5               | 16                  | M24                  |
| B2527016                  | 400                         | 16"    | 406,4   | 10             | 565±3,0                               | 515±1,0                                                        | 26+1,0/0                                        | 26±1,5               | 16                  | M24                  |
| B2527616                  | 400                         | 16"    | 406,4   | 16             | 580±3,0                               | 525±1,5                                                        | 30+2,5/0                                        | 32±1,5               | 16                  | M27                  |
| B2527018                  | 450                         | 18"    | 457,0   | 10             | 615±3,0                               | 565±1,0                                                        | 26+1,0/0                                        | 28±1,5               | 20                  | M24                  |
| B2527618                  | 450                         | 18"    | 457,0   | 16             | 640±3,0                               | 585±1,5                                                        | 30+2,5/0                                        | 40±1,5               | 20                  | M27                  |
| B2527020                  | 500                         | 20"    | 508,0   | 10             | 670±3,0                               | 620±1,0                                                        | 26+1,0/0                                        | 28±1,5               | 20                  | M24                  |
| B2527620                  | 500                         | 20"    | 508,0   | 16             | 715±3,0                               | 650±1,5                                                        | 33+2,5/0                                        | 44±1,5               | 20                  | M30                  |



## CARACTERÍSTICAS BÁSICAS

- Brida conforme UNE-EN 1092-1 Tipo 01.
- Brida conforme DIN 2502 si señalada con 1) o DIN 2576 y DIN2502 si señalada con 2).
- Material: Acero Inoxidable X2CrNiMo17-12-2 / 1.4404 (AISI 316L) conforme a UNE-EN 10222-5.
- Tipo de refrentado: Tipo A, Cara Plana.
- Todas las instalaciones deben cumplir los valores P-T según los requisitos legales especificados.

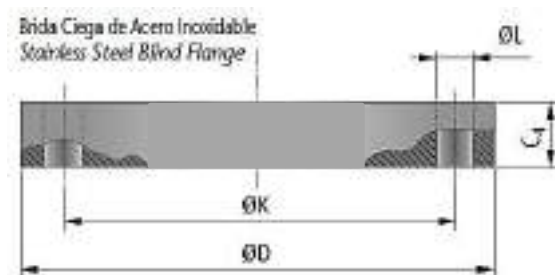
## BASIC FEATURES

- Flange according to EN 1092-1 Type 01.
  - Flange according to DIN 2502 if checked with 1) or DIN 2576 and DIN 2502 if checked with 2).
  - Material: Stainless Steel X2CrNiMo17-12-2 / 1.4404 (AISI 316L) according to EN 10222-5.
  - Flange facing type: Type A, Flat Face.
- All installations has to meet the P-T values specified in the legal requirements

## INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

| Designación - Designation |                          |        |         | Brida - Flange |                                    |                                                             |                                              |                                 |                   | Tornillos - Bolting |                   |
|---------------------------|--------------------------|--------|---------|----------------|------------------------------------|-------------------------------------------------------------|----------------------------------------------|---------------------------------|-------------------|---------------------|-------------------|
| REF.                      | Tubo de Acero Steel tube |        |         | PN             | Diámetro exterior Outside diameter | Diámetro del círculo para tornillos Diameter of bolt circle | Diámetro para tornillo Diameter of bolt hole | Diámetro interior Bore diameter | Espesor Thickness | Número Number       | Diámetro Diameter |
|                           | DN                       | NPS    | ØD (mm) |                | ØD (mm)                            | ØK (mm)                                                     | ØL (mm)                                      | ØB1 (mm)                        | C1 (mm)           | nr (nº)             | Ø (mm)            |
| B257640M                  | 15                       | 1/2"   | 21,3    | 40             | 95±2,0                             | 65±1,0                                                      | 14+1,0/0                                     | 22,0±0,5/0                      | 14+1,0/-1,3       | 4                   | M12               |
| B2576434                  | 20                       | 3/4"   | 26,9    | 40             | 105±2,0                            | 75±1,0                                                      | 14+1,0/0                                     | 27,5±0,5/0                      | 16+1,0/-1,3       | 4                   | M12               |
| B2576401                  | 25                       | 1"     | 33,7    | 40             | 115±2,0                            | 85±1,0                                                      | 14+1,0/0                                     | 34,5±0,5/0                      | 16+1,0/-1,3       | 4                   | M12               |
| B257641C                  | 32                       | 1 1/4" | 42,4    | 40             | 140±2,0                            | 100±1,0                                                     | 18+1,0/0                                     | 43,5±0,5/0                      | 18+1,0/-1,3       | 4                   | M16               |
| B257641M                  | 40                       | 1 1/2" | 48,3    | 40             | 150±2,0                            | 110±1,0                                                     | 18+1,0/0                                     | 49,5±0,5/0                      | 18+1,0/-1,3       | 4                   | M16               |
| B2576402                  | 50                       | 2"     | 60,3    | 40             | 165±2,0                            | 125±1,0                                                     | 18+1,0/0                                     | 61,5±0,5/0                      | 20±1,5            | 4                   | M16               |
| B257642M                  | 65                       | 2 1/2" | 76,1    | 16             | 185±2,0                            | 145±1,0                                                     | 18+1,0/0                                     | 77,5±0,5/0                      | 18+1,0/-1,3       | 4                   | M16               |
| B2576403                  | 80                       | 3"     | 88,9    | 16             | 200±2,0                            | 160±1,0                                                     | 18+1,0/0                                     | 90,5±0,5/0                      | 20±1,5            | 8                   | M16               |
| B2576404                  | 100                      | 4"     | 114,3   | 16             | 220±2,0                            | 180±1,0                                                     | 18+1,0/0                                     | 116,0±0,5/0                     | 22±1,5            | 8                   | M16               |
| B2576405                  | 125                      | 5"     | 139,7   | 16             | 250±2,0                            | 210±1,0                                                     | 18+1,0/0                                     | 141,5±1,0/0                     | 22±1,5            | 8                   | M16               |
| B2576406                  | 150                      | 6"     | 168,3   | 16             | 285±2,0                            | 240±1,0                                                     | 22+1,0/0                                     | 170,5±1,0/0                     | 24±1,5            | 8                   | M20               |
| B2576408                  | 200                      | 8"     | 219,1   | 10             | 340±3,0                            | 295±1,0                                                     | 22+1,0/0                                     | 221,5±1,0/0                     | 24±1,5            | 8                   | M20               |
| B2576608                  | 200                      | 8"     | 219,1   | 16             | 340±3,0                            | 295±1,0                                                     | 22+1,0/0                                     | 221,5±1,0/0                     | 26±1,5            | 12                  | M20               |
| B2576410                  | 250                      | 10"    | 273,0   | 10             | 395±3,0                            | 350±1,0                                                     | 22+1,0/0                                     | 276,5±1,0/0                     | 26±1,5            | 12                  | M20               |
| B2576610                  | 250                      | 10"    | 273,0   | 16             | 405±3,0                            | 355±1,0                                                     | 26+1,0/0                                     | 276,5±1,0/0                     | 29±1,5            | 12                  | M24               |
| B2576412                  | 300                      | 12"    | 323,9   | 10             | 445±3,0                            | 400±1,0                                                     | 22+1,0/0                                     | 327,5±1,0/0                     | 26±1,5            | 12                  | M20               |
| B2576414                  | 350                      | 14"    | 355,6   | 10             | 505±3,0                            | 460±1,0                                                     | 22+1,0/0                                     | 359,5±1,0/0                     | 30±1,5            | 16                  | M20               |
| B2576416                  | 400                      | 16"    | 406,4   | 10             | 565±3,0                            | 515±1,0                                                     | 26+1,0/0                                     | 411,0±1,0/0                     | 32±1,5            | 16                  | M24               |
| B2576418                  | 450                      | 18"    | 457,0   | 10             | 615±3,0                            | 565±1,0                                                     | 26+1,0/0                                     | 462,0±1,5/0                     | 36±1,5            | 20                  | M24               |
| B2576420                  | 500                      | 20"    | 508,0   | 10             | 670±3,0                            | 620±1,0                                                     | 26+1,0/0                                     | 513,5±1,5/0                     | 38±1,5            | 20                  | M24               |

# BRIDA CIEGA INOXIDABLE STAINLESS STEEL BLIND FLANGE



## CARACTERÍSTICAS BÁSICAS

- Brida conforme UNE-EN 1092-1 Tipo 05.
- Material: Acero Inoxidable X2CrNiMo17-12-2 / 1.4404 (AISI 316L) conforme a UNE-EN 10222-5.
- Tipo de refrentado: Tipo A, Cara Plana.
- Todas las instalaciones deben cumplir los valores P-T según los requisitos legales especificados.
- Marcado: ATUSA; EN 1092-1/05; DN; PN; 1.4404; 316L; A182; Nº COLADA.

## BASIC FEATURES

- Flange according to EN 1092-1 Type 05.
- Material: Stainless Steel X2CrNiMo17-12-2 / 1.4404 (AISI 316L) according to EN 10222-5.
- Flange facing type: Type A, Flat Face.
- All installations has to meet the P-T values specified in the legal requirements.
- Marking: ATUSA; EN 1092-1/05; DN; PN; 1.4404; 316L; A182; HEAT Number

### INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

| Designación - Designation |                             |        |         | Brida - Flange |                                    |                                                               |                                                 |                      | Tornillos - Bolting |                      |
|---------------------------|-----------------------------|--------|---------|----------------|------------------------------------|---------------------------------------------------------------|-------------------------------------------------|----------------------|---------------------|----------------------|
| REF.                      | Tubo de Acero<br>Steel tube |        |         | PN             | Diámetro exterior/Outside diameter | Diámetro del círculo paratornillos<br>Diameter of bolt circle | Diámetro para tornillo<br>Diameter of bolt hole | Espesor<br>Thickness | Número<br>Number    | Diámetro<br>Diameter |
|                           | DN                          | NPS    | Ød (mm) |                | ØD (mm)                            | ØK (mm)                                                       | ØL (mm)                                         | C <sub>1</sub> (mm)  | nr (nº)             | Ø (mm)               |
| B272500M                  | 15                          | 1/2"   | 21,3    | 40             | 95±2,0                             | 65±1,0                                                        | 14+1,0/0                                        | 16+1,0/-1,3          | 4                   | M12                  |
| B2725034                  | 20                          | 3/4"   | 26,9    | 40             | 105±2,0                            | 75±1,0                                                        | 14+1,0/0                                        | 18+1,0/-1,3          | 4                   | M12                  |
| B2725001                  | 25                          | 1"     | 33,7    | 40             | 115±2,0                            | 85±1,0                                                        | 14+1,0/0                                        | 18+1,0/-1,3          | 4                   | M12                  |
| B272501C                  | 32                          | 1 1/4" | 42,4    | 40             | 140±2,0                            | 100±1,0                                                       | 18+1,0/0                                        | 18+1,0/-1,3          | 4                   | M16                  |
| B272501M                  | 40                          | 1 1/2" | 48,3    | 40             | 150±2,0                            | 110±1,0                                                       | 18+1,0/0                                        | 18+1,0/-1,3          | 4                   | M16                  |
| B2725002                  | 50                          | 2"     | 60,3    | 40             | 165±2,0                            | 125±1,0                                                       | 18+1,0/0                                        | 20±1,5               | 4                   | M16                  |
| B272502M                  | 65                          | 2 1/2" | 76,1    | 16             | 185±2,0                            | 145±1,0                                                       | 18+1,0/0                                        | 18+1,0/-1,3          | 8                   | M16                  |
| B2725003                  | 80                          | 3"     | 88,9    | 16             | 200±2,0                            | 160±1,0                                                       | 18+1,0/0                                        | 20±1,5               | 8                   | M16                  |
| B2725004                  | 100                         | 4"     | 114,3   | 16             | 220±2,0                            | 180±1,0                                                       | 18+1,0/0                                        | 20±1,5               | 8                   | M16                  |
| B2725005                  | 125                         | 5"     | 139,7   | 16             | 250±2,0                            | 210±1,0                                                       | 18+1,0/0                                        | 22±1,5               | 8                   | M16                  |
| B2725006                  | 150                         | 6"     | 168,3   | 16             | 285±2,0                            | 240±1,0                                                       | 22+1,0/0                                        | 22±1,5               | 8                   | M20                  |
| B2725008                  | 200                         | 8"     | 219,1   | 10             | 340±3,0                            | 295±1,0                                                       | 22+1,0/0                                        | 24±1,5               | 8                   | M20                  |
| B2725608                  | 200                         | 8"     | 219,1   | 16             | 340±3,0                            | 295±1,0                                                       | 22+1,0/0                                        | 24±1,5               | 12                  | M20                  |
| B2725010                  | 250                         | 10"    | 273,0   | 10             | 395±3,0                            | 350±1,0                                                       | 22+1,0/0                                        | 26±1,5               | 12                  | M20                  |
| B2725610                  | 250                         | 10"    | 273,0   | 16             | 405±3,0                            | 355±1,0                                                       | 26+1,0/0                                        | 26±1,5               | 12                  | M24                  |
| B2725012                  | 300                         | 12"    | 323,9   | 10             | 445±3,0                            | 400±1,0                                                       | 22+1,0/0                                        | 26±1,5               | 12                  | M20                  |
| B2725612                  | 300                         | 12"    | 323,9   | 16             | 460±3,0                            | 410±1,0                                                       | 26+1,0/0                                        | 28±1,5               | 12                  | M24                  |
| B2725014                  | 350                         | 14"    | 355,6   | 10             | 505±3,0                            | 460±1,0                                                       | 22+1,0/0                                        | 26±1,5               | 16                  | M20                  |
| B2725614                  | 350                         | 14"    | 355,6   | 16             | 520±3,0                            | 470±1,0                                                       | 26+1,0/0                                        | 30±1,5               | 16                  | M24                  |
| B2725016                  | 400                         | 16"    | 406,4   | 10             | 565±3,0                            | 515±1,0                                                       | 26+1,0/0                                        | 26±1,5               | 16                  | M24                  |
| B2725616                  | 400                         | 16"    | 406,4   | 16             | 580±3,0                            | 525±1,5                                                       | 30+2,5/0                                        | 32±1,5               | 16                  | M27                  |
| B2725020                  | 500                         | 20"    | 508,0   | 10             | 670±3,0                            | 620±1,0                                                       | 26+1,0/0                                        | 28±1,5               | 20                  | M24                  |
| B2725620                  | 500                         | 20"    | 508,0   | 16             | 715±3,0                            | 650±1,5                                                       | 33+2,5/0                                        | 44±1,5               | 20                  | M30                  |


**INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION**

| HIERRO   | INOX     | DN  | D1  | D2   | D3   | D4  | D5  | D6  | ESPARRAGOS |                     |
|----------|----------|-----|-----|------|------|-----|-----|-----|------------|---------------------|
|          |          |     |     |      |      |     |     |     | NÚMERO     | DIAMETRO TALADRO DF |
| SUSS3010 | SUSS4010 | 10  | 18  | 90   | 60   | 23  | 32  | -   | 8          | M12                 |
| SUSS3015 | SUSS4015 | 15  | 22  | 95   | 65   | 29  | 37  | -   | 4          | M12                 |
| SUSS3020 | SUSS4020 | 20  | 28  | 105  | 75   | 36  | 47  | -   | 4          | M12                 |
| SUSS3025 | SUSS4025 | 25  | 35  | 115  | 85   | 43  | 56  | -   | 4          | M12                 |
| SUSS3032 | SUSS4032 | 32  | 44  | 140  | 100  | 52  | 65  | -   | 4          | M16                 |
| SUSS3040 | SUSS4040 | 40  | 50  | 150  | 110  | 55  | 66  | 77  | 4          | M16                 |
| SUSS3050 | SUSS4050 | 50  | 62  | 165  | 125  | 69  | 80  | 91  | 4          | M16                 |
| SUSS3065 | SUSS4065 | 65  | 78  | 185  | 145  | 89  | 100 | 111 | 4          | M16                 |
| SUSS3080 | SUSS4080 | 80  | 90  | 200  | 160  | 102 | 114 | 126 | 8          | M16                 |
| SUSS3100 | SUSS4100 | 100 | 116 | 220  | 180  | 122 | 134 | 146 | 8          | M16                 |
| SUSS3125 | SUSS4125 | 125 | 142 | 250  | 210  | 147 | 161 | 175 | 8          | M16                 |
| SUSS3150 | SUSS4150 | 150 | 171 | 285  | 240  | 173 | 186 | 199 | 8          | M20                 |
| SUSS3175 | SUSS4175 | 175 | 196 | 315  | 270  | 204 | 217 | 230 | 8          | M20                 |
| SUSS3200 | SUSS4200 | 200 | 220 | 340  | 295  | 229 | 242 | 255 | 12         | M20                 |
| SUSS3250 | SUSS4250 | 250 | 276 | 405  | 355  | 281 | 294 | 307 | 12         | M24                 |
| SUSS3300 | SUSS4300 | 300 | 328 | 450  | 410  | 333 | 348 | 363 | 12         | M24                 |
| SUSS3350 | SUSS4350 | 350 | 360 | 520  | 470  | 387 | 404 | 421 | 16         | M24                 |
| SUSS3400 | SUSS4400 | 400 | 411 | 560  | 525  | 437 | 455 | 473 | 16         | M27                 |
| SUSS3450 | SUSS4450 | 450 | 462 | 640  | 555  | 437 | 455 | 473 | 20         | M27                 |
| SUSS3500 | SUSS4500 | 500 | 514 | 718  | 650  | 541 | 559 | 577 | 20         | M30                 |
| SUSS3600 | SUSS4600 | 600 | 617 | 840  | 770  | -   | -   | -   | 20         | M33                 |
| SUSS3700 | SUSS4700 | 700 | 719 | 910  | 840  | -   | -   | -   | 24         | M33                 |
| SUSS3800 | SUSS4800 | 800 | 821 | 1025 | 950  | -   | -   | -   | 24         | M36                 |
| SUSS3900 | SUSS4900 | 900 | 924 | 1125 | 1050 | -   | -   | -   | 28         | M36                 |



| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |          |     |     |      |      |     |     |     |            |                     |
|---------------------------------------------|----------|-----|-----|------|------|-----|-----|-----|------------|---------------------|
| HIERRO                                      | INOX     | DN  | D1  | D2   | D3   | D4  | D5  | D6  | ESPARRAGOS |                     |
|                                             |          |     |     |      |      |     |     |     | NÚMERO     | DIAMETRO TALADRO DF |
| SUDS3010                                    | SUDS4038 | 10  | 18  | 90   | 60   | 23  | 32  | -   | 8          | M12                 |
| SUDS3015                                    | SUDS400M | 15  | 22  | 95   | 65   | 29  | 37  | -   | 8          | M12                 |
| SUDS3020                                    | SUDS4034 | 20  | 28  | 105  | 75   | 36  | 47  | -   | 8          | M12                 |
| SUDS3025                                    | SUDS4001 | 25  | 35  | 115  | 85   | 43  | 56  | -   | 8          | M12                 |
| SUDS3032                                    | SUDS4002 | 32  | 44  | 140  | 100  | 52  | 65  | -   | 8          | M16                 |
| SUDS3040                                    | SUDS401C | 40  | 50  | 150  | 110  | 55  | 66  | 77  | 8          | M16                 |
| SUDS3050                                    | SUDS4002 | 50  | 62  | 165  | 125  | 69  | 80  | 91  | 8          | M16                 |
| SUDS3065                                    | SUDS402M | 65  | 78  | 185  | 145  | 89  | 100 | 111 | 8          | M16                 |
| SUDS3080                                    | SUDS4003 | 80  | 90  | 200  | 160  | 102 | 114 | 126 | 16         | M16                 |
| SUDS3100                                    | SUDS4004 | 100 | 116 | 220  | 180  | 122 | 134 | 146 | 16         | M16                 |
| SUDS3125                                    | SUDS4005 | 125 | 142 | 250  | 210  | 147 | 161 | 175 | 16         | M16                 |
| SUDS3150                                    | SUDS4006 | 150 | 171 | 285  | 240  | 173 | 186 | 199 | 16         | M20                 |
| SUDS3175                                    | SUDS4007 | 175 | 196 | 315  | 270  | 204 | 217 | 230 | 16         | M20                 |
| SUDS3200                                    | SUDS4008 | 200 | 220 | 340  | 295  | 229 | 242 | 255 | 24         | M20                 |
| SUDS3250                                    | SUDS4010 | 250 | 276 | 405  | 355  | 281 | 294 | 307 | 24         | M24                 |
| SUDS3300                                    | SUDS4012 | 300 | 328 | 450  | 410  | 333 | 348 | 363 | 24         | M24                 |
| SUDS3350                                    | SUDS4014 | 350 | 360 | 520  | 470  | 387 | 404 | 421 | 32         | M24                 |
| SUDS3400                                    | SUDS4016 | 400 | 411 | 560  | 525  | 437 | 455 | 473 | 32         | M27                 |
| SUDS3450                                    | SUDS4018 | 450 | 462 | 640  | 555  | 437 | 455 | 473 | 40         | M27                 |
| SUDS3500                                    | SUDS4020 | 500 | 514 | 718  | 650  | 541 | 559 | 577 | 40         | M30                 |
| SUDS3600                                    | SUDS4024 | 600 | 617 | 840  | 770  | -   | -   | -   | 40         | M33                 |
| SUDS3700                                    | SUDS4028 | 700 | 719 | 910  | 840  | -   | -   | -   | 48         | M33                 |
| SUDS3800                                    | SUDS4032 | 800 | 821 | 1025 | 950  | -   | -   | -   | 48         | M36                 |
| SUDS3900                                    | SUDS4036 | 900 | 924 | 1125 | 1050 | -   | -   | -   | 56         | M36                 |





JUNTAS NEOPRENO



JUNTA BELPA CSA-25

**INFORMACIÓN TÉCNICA – TECHNICAL INFORMATION**

| Medidas Pulgadas | Número de agujero | REF JUNTA NEOPRENO | REF JUNTA BELPA CSA-25 |
|------------------|-------------------|--------------------|------------------------|
| 1/2"             | 4                 | JN00000M           | JCSA000M               |
| 3/4"             | 4                 | JN000034           | JCSA0034               |
| 1"               | 4                 | JN000001           | JCSA0001               |
| 1 1/4"           | 4                 | JN00001C           | JCSA001C               |
| 1 1/2"           | 4                 | JN00001M           | JCSA001M               |
| 2"               | 4                 | JN000002           | JCSA0002               |
| 2 1/2"           | 4                 | JN00002M           | JCSA002M               |
| 3"               | 8                 | JN000003           | JCSA0003               |
| 3 1/2"           | 8                 | JN00003M           | JCSA003M               |
| 4"               | 8                 | JN000004           | JCSA0004               |
| 5"               | 8                 | JN000005           | JCSA0005               |
| 6"               | 8                 | JN000006           | JCSA0006               |
| 8 PN10           | 8                 | JN000008           | JCSA0008               |
| 8 PN16           | 12                | JN000608           | JCSA0608               |
| 10" PN 10        | 12                | JN000010           | JCSA0010               |
| 12" PN 16        | 12                | JN000612           | JCSA0610               |

**JUNTAS DE NEOPRENO REGISTRO**  
**NEOPRENE GASKETS OF MARINE SHIP BOAT**  
**STEEL**

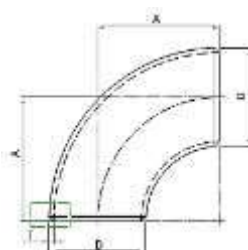
**INFORMACIÓN TÉCNICA – TECHNICAL INFORMATION**

| REF      | Medidas Exteriores | Medidas Interiores | Número de Agujeros |
|----------|--------------------|--------------------|--------------------|
| JN345445 | 570X370            | 345X445            | 14                 |
| JN350450 | 558X458            | 350X450            | 20                 |
| JN370470 | 574X474            | 370X470            | 20                 |
| JN370530 | 650X480            | 370X530            | 18                 |
| JN380540 | 650X480            | 380X540            | 16                 |
| JN400600 | 720X520            | 400X600            | 24                 |
| JN450600 | 730X580            | 450X600            | 24                 |
| JN420620 | 740X540            | 420X620            | 22                 |
| JN570770 | 900X700            | 570X770            | s/n                |
| JN630480 | 750X600            | 630X480            | 24                 |

CODO 90° STD Y CODO 90° XS  
ELBOW 90° STD AND ELBOW 90° XS

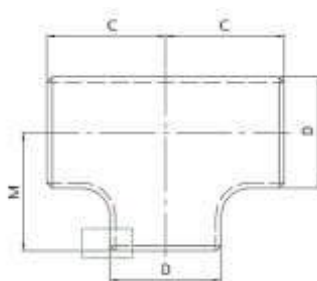
VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL

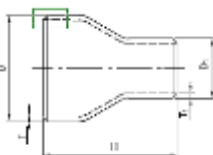


| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |                      |                             |     |              |                                       |                                                       |                       |         |                     |          |               |       |
|---------------------------------------------|----------------------|-----------------------------|-----|--------------|---------------------------------------|-------------------------------------------------------|-----------------------|---------|---------------------|----------|---------------|-------|
| Designación - Designation                   |                      |                             |     |              | DIMENSIONES - DIMENSIONS              |                                                       |                       |         |                     |          | Peso          |       |
| REF                                         |                      | Tubo de Acero<br>Steel tube |     |              | Diámetro exterior<br>Outside diameter | Distancia Centro Extremo /<br>Center-to-End Dimension | Espesor - Thickness   |         |                     |          | Weight aprox. |       |
| Clase STD<br>STD Class                      | Clase XS<br>XS Class | NPS                         | DN  | Øext<br>(mm) | D(mm)                                 | A(mm)                                                 | Clase STD - STD Class |         | Clase XS - XS Class |          | STD           | XS    |
|                                             |                      |                             |     |              |                                       |                                                       | T(mm)                 | Sch.No. | T(mm)               | Sch. No. | (kg)          | (kg)  |
| C90RL00M                                    | C90XS00M             | 1/2"                        | 15  | 21,3         | 21,3 + 1,6/- 0,8                      | 38 ± 2                                                | 2,77 ± 0,3            | 40      | 3,73 ± 0,5          | 80       | 0,07          | 0,10  |
| C90RL034                                    | C90XS034             | 3/4"                        | 20  | 26,7         | 26,7 + 1,6/- 0,8                      | 38 ± 2                                                | 2,87 ± 0,4            | 40      | 3,91 ± 0,5          | 80       | 0,10          | 0,12  |
| C90RL001                                    | C90XS001             | 1"                          | 25  | 33,4         | 33,4 + 1,6/- 0,8                      | 38 ± 2                                                | 3,38 ± 0,4            | 40      | 4,55 ± 0,6          | 80       | 0,15          | 0,18  |
| C90RL01C                                    | C90XS01C             | 1 1/4"                      | 32  | 42,2         | 42,2 + 1,6/- 0,8                      | 48 ± 2                                                | 3,56 ± 0,4            | 40      | 4,85 ± 0,6          | 80       | 0,25          | 0,33  |
| C90RL01M                                    | C90XS01M             | 1 1/2"                      | 40  | 48,3         | 48,3 + 1,6/- 0,8                      | 57 ± 2                                                | 3,68 ± 0,5            | 40      | 5,08 ± 0,6          | 80       | 0,35          | 0,48  |
| C90RL002                                    | C90XS002             | 2"                          | 50  | 60,3         | 60,3 + 1,6/- 0,8                      | 76 ± 2                                                | 3,91 ± 0,5            | 40      | 5,54 ± 0,7          | 80       | 0,65          | 0,88  |
| C90RL02M                                    | C90XS02M             | 2 1/2"                      | 65  | 73,0         | 73,0 + 1,6/- 0,8                      | 95 ± 2                                                | 5,16 ± 0,6            | 40      | 7,01 ± 0,9          | 80       | 1,30          | 1,70  |
| C90RL003                                    | C90XS003             | 3"                          | 80  | 88,9         | 88,9 ± 1,6                            | 114 ± 2                                               | 5,49 ± 0,7            | 40      | 7,62 ± 1,0          | 80       | 2,02          | 2,72  |
| C90RL004                                    | C90XS004             | 4"                          | 100 | 114,3        | 114,3 ± 1,6                           | 152 ± 2                                               | 6,02 ± 0,8            | 40      | 8,56 ± 1,1          | 80       | 3,82          | 5,35  |
| C90RL005                                    | C90XS005             | 5"                          | 125 | 141,3        | 141,3 + 2,4/- 1,6                     | 190 ± 2                                               | 6,55 ± 0,8            | 40      | 9,53 ± 1,2          | 80       | 6,55          | 9,22  |
| C90RL006                                    | C90XS006             | 6"                          | 150 | 168,3        | 168,3 + 2,4/- 1,6                     | 229 ± 2                                               | 7,11 ± 0,9            | 40      | 10,97 ± 1,4         | 80       | 10,12         | 15,30 |
| C90RL008                                    | C90XS008             | 8"                          | 200 | 219,1        | 219,1 + 2,4/- 1,6                     | 305 ± 2                                               | 8,18 ± 1,0            | 40      | 12,70 ± 1,6         | 80       | 20,40         | 30,91 |
| C90RL010                                    | C90XS010             | 10"                         | 250 | 273,0        | 273,0 + 4,0/- 3,2                     | 381 ± 2                                               | 9,27 ± 1,2            | 40      | 12,70 ± 1,6         | 60       | 36,16         | 48,75 |
| C90RL012                                    | C90XS012             | 12"                         | 300 | 323,8        | 323,8 + 4,0/- 3,2                     | 457 ± 2                                               | 9,53 ± 1,2            | ----    | 12,70 ± 1,6         | ----     | 52,82         | 69,90 |
| C90RL014                                    | C90XS014             | 14"                         | 350 | 355,6        | 355,6 + 4,0/- 3,2                     | 533 ± 2                                               | 9,53 ± 1,2            | 30      | 12,70 ± 1,6         | ----     | 67,86         | 89,88 |

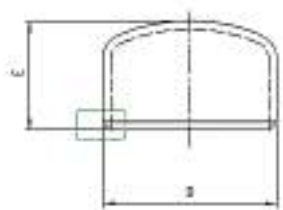
TE STD Y TE XS  
STD TE AND XS TE



| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |                      |                             |     |              |                                       |                    |                                                        |                       |             |                     |             |                       |       |
|---------------------------------------------|----------------------|-----------------------------|-----|--------------|---------------------------------------|--------------------|--------------------------------------------------------|-----------------------|-------------|---------------------|-------------|-----------------------|-------|
| Designación - Designation                   |                      |                             |     |              | DIMENSIONES - DIMENSIONS              |                    |                                                        |                       |             |                     |             | Peso<br>Weight aprox. |       |
| REF                                         |                      | Tubo de Acero<br>Steel tube |     |              | Diámetro exterior<br>Outside diameter | Longitud<br>length | Distancia Centro<br>Extremo Center-to-End<br>Dimension | Espesor - Thickness   |             |                     |             | STD<br>Weight approx. |       |
| Clase STD<br>STD Class                      | Clase XS<br>XS Class |                             |     |              |                                       |                    |                                                        | Clase STD - STD Class |             | Clase XS - XS Class |             |                       |       |
|                                             |                      | NPS                         | DN  | Øext<br>(mm) | D(mm)                                 | 2C<br>(mm)         | C=M<br>(mm)                                            | T(mm)                 | Sch.<br>No. | T(mm)               | Sch.<br>No. | (kg)                  | (kg)  |
| TSTD000M                                    | T130XS0M             | 1/2"                        | 15  | 21,3         | 21,3 + 1,6/- 0,8                      | 50 ± 4             | 50 ± 2                                                 | 2,77 ± 0,3            | 40          | 3,73 ± 0,5          | 80          | 0,10                  | 0,13  |
| TSTD0034                                    | T130XS34             | 3/4"                        | 20  | 26,7         | 26,7 + 1,6/- 0,8                      | 58 ± 4             | 58 ± 2                                                 | 2,87 ± 0,4            | 40          | 3,91 ± 0,5          | 80          | 0,20                  | 0,19  |
| TSTD0001                                    | T130XS01             | 1"                          | 25  | 33,4         | 33,4 + 1,6/- 0,8                      | 76 ± 4             | 76 ± 2                                                 | 3,38 ± 0,4            | 40          | 4,55 ± 0,6          | 80          | 0,34                  | 0,40  |
| TSTD001C                                    | T130XS1C             | 1 1/4"                      | 32  | 42,2         | 42,2 + 1,6/- 0,8                      | 96 ± 4             | 96 ± 2                                                 | 3,56 ± 0,4            | 40          | 4,85 ± 0,6          | 80          | 0,59                  | 0,70  |
| TSTD001M                                    | T130XS1M             | 1 1/2"                      | 40  | 48,3         | 48,3 + 1,6/- 0,8                      | 114 ± 4            | 114 ± 2                                                | 3,68 ± 0,5            | 40          | 5,08 ± 0,6          | 80          | 0,92                  | 1,03  |
| TSTD0002                                    | T130XS02             | 2"                          | 50  | 60,3         | 60,3 + 1,6/- 0,8                      | 128 ± 4            | 128 ± 2                                                | 3,91 ± 0,5            | 40          | 5,54 ± 0,7          | 80          | 1,59                  | 2,54  |
| TSTD002M                                    | T130XS2M             | 2 1/2"                      | 65  | 73,0         | 73,0 + 1,6/- 0,8                      | 152 ± 4            | 152 ± 2                                                | 5,16 ± 0,6            | 40          | 7,01 ± 0,9          | 80          | 2,72                  | 2,54  |
| TSTD0003                                    | T130XS03             | 3"                          | 80  | 88,9         | 88,9 ± 1,6                            | 172 ± 4            | 172 ± 2                                                | 5,49 ± 0,7            | 40          | 7,62 ± 1,0          | 80          | 3,18                  | 3,81  |
| TSTD0004                                    | T130XS04             | 4"                          | 100 | 114,3        | 114,3 ± 1,6                           | 210 ± 4            | 210 ± 2                                                | 6,02 ± 0,8            | 40          | 8,56 ± 1,1          | 80          | 5,45                  | 6,80  |
| TSTD0005                                    | T130XS05             | 5"                          | 125 | 141,3        | 141,3 ± 2,4/- 1,6                     | 248 ± 4            | 248 ± 2                                                | 6,55 ± 0,8            | 40          | 9,53 ± 1,2          | 80          | 9,53                  | 10,19 |
| TSTD0006                                    | T130XS06             | 6"                          | 150 | 168,3        | 168,3 ± 2,4/- 1,6                     | 286 ± 4            | 286 ± 2                                                | 7,11 ± 0,9            | 40          | 10,97 ± 1,4         | 80          | 15,40                 | 16,20 |
| TSTD0008                                    | T130XS08             | 8"                          | 200 | 219,1        | 219,1 ± 2,4/- 1,6                     | 356 ± 4            | 356 ± 2                                                | 8,18 ± 1,0            | 40          | 12,70 ± 1,6         | 80          | 24,50                 | 28,79 |
| TSTD0010                                    | T130XS10             | 10"                         | 250 | 273,0        | 273,0 ± 4,0/- 3,2                     | 432 ± 4            | 432 ± 2                                                | 9,27 ± 1,2            | 40          | 12,70 ± 1,6         | 60          | 38,60                 | 53,50 |
| TSTD0012                                    | T130XS12             | 12"                         | 300 | 323,8        | 323,8 ± 4,0/- 3,2                     | 508 ± 4            | 508 ± 2                                                | 9,53 ± 1,2            | ----        | 12,70 ± 1,6         | ----        | 63,00                 | 75,70 |
| TSTD0014                                    | T130XS14             | 14"                         | 350 | 355,6        | 355,6 ± 4,0/- 3,2                     | 558 ± 4            | 558 ± 2                                                | 9,53 ± 1,2            | 30          | 12,70 ± 1,6         | ----        | 46,00                 | 92,10 |



| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |                        |                      |                             |              |          |                                       |         |                    |                          |         |          |                     |         |         |                       |      |
|---------------------------------------------|------------------------|----------------------|-----------------------------|--------------|----------|---------------------------------------|---------|--------------------|--------------------------|---------|----------|---------------------|---------|---------|-----------------------|------|
| Designación - Designation                   |                        |                      | Tubo de Acero<br>Steel tube |              |          | Diámetro exterior<br>Outside diameter |         | Longitud<br>Length | DIMENSIONES - DIMENSIONS |         |          |                     |         |         | Peso<br>Weight aprox. |      |
| REF                                         | Class STD<br>STD Class | Class XS<br>XS Class |                             |              |          |                                       |         |                    | Especor-Thickness        |         |          |                     |         |         |                       |      |
|                                             |                        |                      | NPS                         | DN           | Øext(mm) | D (mm)                                | D1 (mm) | H(mm)              | Class STD - STD Class    |         |          | Class XS - XS Class |         |         | STD                   | XS   |
|                                             |                        |                      |                             |              |          |                                       |         |                    | T (mm)                   | T1 (mm) | Sch. No. | T (mm)              | T1 (mm) | Sch.No. | (kg)                  | (kg) |
| RCST340M                                    | RCXS340M               | 3/4" x 1/2"          | 20x15                       | 26,7 x 21,3  | 26,7     | +1,6/- 0,8                            | 21,3    | +1,6/- 0,8         | 38                       | ±2      | 2,87     | ±0,4                | 2,77    | ±0,3    | 40                    |      |
| RCST010M                                    | RCXS013M               | 1" x 1/2"            | 25x15                       | 33,4 x 21,3  | 33,4     | +1,6/- 0,8                            | 21,3    | +1,6/- 0,8         | 51                       | ±2      | 3,38     | ±0,4                | 2,77    | ±0,3    | 40                    |      |
| RCST013M                                    | RCXS013M               | 1" x 3/4"            | 25x20                       | 33,4 x 26,7  | 33,4     | +1,6/- 0,8                            | 26,7    | +1,6/- 0,8         | 51                       | ±2      | 3,38     | ±0,4                | 2,87    | ±0,4    | 40                    |      |
| RCST1COM                                    | RCXS1COM               | 11/4" x 1/2"         | 32x15                       | 42,2 x 21,3  | 42,2     | +1,6/- 0,8                            | 21,3    | +1,6/- 0,8         | 51                       | ±2      | 3,56     | ±0,4                | 2,77    | ±0,3    | 40                    |      |
| RCST1C3M                                    | RCXS1C3M               | 11/4" x 3/4"         | 32x20                       | 42,2 x 26,7  | 42,2     | +1,6/- 0,8                            | 26,7    | +1,6/- 0,8         | 51                       | ±2      | 3,56     | ±0,4                | 2,87    | ±0,4    | 40                    |      |
| RCST1C01                                    | RCXS1C01               | 11/4" x 1"           | 32x25                       | 42,2 x 33,4  | 42,2     | +1,6/- 0,8                            | 33,4    | +1,6/- 0,8         | 51                       | ±2      | 3,56     | ±0,4                | 3,38    | ±0,4    | 40                    |      |
| RCST1M0M                                    | RCXS1M0M               | 11/2" x 1/2"         | 40x15                       | 48,3 x 21,3  | 48,3     | +1,6/- 0,8                            | 21,3    | +1,6/- 0,8         | 64                       | ±2      | 3,68     | ±0,5                | 2,77    | ±0,3    | 40                    |      |
| RCST1M3M                                    | RCXS1M3M               | 11/2" x 3/4"         | 40x20                       | 48,3 x 26,7  | 48,3     | +1,6/- 0,8                            | 26,7    | +1,6/- 0,8         | 64                       | ±2      | 3,68     | ±0,5                | 2,87    | ±0,4    | 40                    |      |
| RCST1M01                                    | RCXS1M01               | 11/2" x 1"           | 40x25                       | 48,3 x 33,4  | 48,3     | +1,6/- 0,8                            | 33,4    | +1,6/- 0,8         | 64                       | ±2      | 3,68     | ±0,5                | 3,38    | ±0,4    | 40                    |      |
| RCST1M1C                                    | RCXS1M1C               | 11/2" x 11/4"        | 40x32                       | 48,3 x 42,2  | 48,3     | +1,6/- 0,8                            | 42,2    | +1,6/- 0,8         | 64                       | ±2      | 3,68     | ±0,5                | 3,56    | ±0,4    | 40                    |      |
| RCST0201                                    | RCXS0201               | 2" x 1"              | 50x25                       | 60,3 x 33,4  | 60,3     | +1,6/- 0,8                            | 33,4    | +1,6/- 0,8         | 76                       | ±2      | 3,91     | ±0,5                | 3,38    | ±0,4    | 40                    |      |
| RCST021C                                    | RCXS021C               | 2" x 11/4"           | 50x32                       | 60,3 x 42,2  | 60,3     | +1,6/- 0,8                            | 42,2    | +1,6/- 0,8         | 76                       | ±2      | 3,91     | ±0,5                | 3,56    | ±0,4    | 40                    |      |
| RCST021M                                    | RCXS021M               | 2" x 11/2"           | 50x40                       | 60,3 x 48,3  | 60,3     | +1,6/- 0,8                            | 48,3    | +1,6/- 0,8         | 76                       | ±2      | 3,91     | ±0,5                | 3,68    | ±0,5    | 40                    |      |
| RCST2M1C                                    | RCXS2M1C               | 21/2" x 1/4"         | 65x32                       | 73,0 x 42,2  | 73,0     | +1,6/- 0,8                            | 42,2    | +1,6/- 0,8         | 89                       | ±2      | 5,16     | ±0,6                | 3,56    | ±0,4    | 40                    |      |
| RCST2M1M                                    | RCXS2M1M               | 21/2" x 11/2"        | 65x40                       | 73,0 x 48,3  | 73,0     | +1,6/- 0,8                            | 48,3    | +1,6/- 0,8         | 89                       | ±2      | 5,16     | ±0,6                | 3,68    | ±0,5    | 40                    |      |
| RCST2M02                                    | RCXS2M02               | 21/2" x 2"           | 65x50                       | 73,0 x 60,3  | 73,0     | +1,6/- 0,8                            | 60,3    | +1,6/- 0,8         | 89                       | ±2      | 5,16     | ±0,6                | 3,91    | ±0,5    | 40                    |      |
| RCST031C                                    | RCXS031C               | 3" x 11/4"           | 80x32                       | 88,9 x 42,2  | 88,9     | ±1,6                                  | 42,2    | +1,6/- 0,8         | 89                       | ±2      | 5,49     | ±0,7                | 3,56    | ±0,4    | 40                    |      |
| RCST031M                                    | RCXS031M               | 3" x 11/2"           | 80x40                       | 88,9 x 48,3  | 88,9     | ±1,6                                  | 48,3    | +1,6/- 0,8         | 89                       | ±2      | 5,49     | ±0,7                | 3,68    | ±0,5    | 40                    |      |
| RCST0302                                    | RCXS0302               | 3" x 2"              | 80x50                       | 88,9 x 60,3  | 88,9     | ±1,6                                  | 60,3    | +1,6/- 0,8         | 89                       | ±2      | 5,49     | ±0,7                | 3,91    | ±0,5    | 40                    |      |
| RCST032M                                    | RCXS032M               | 3" x 21/2"           | 80x65                       | 88,9 x 73,0  | 88,9     | ±1,6                                  | 73,0    | +1,6/- 0,8         | 89                       | ±2      | 5,49     | ±0,7                | 5,16    | ±0,6    | 40                    |      |
| RCST041M                                    | RCXS041M               | 4" x 11/2"           | 100x40                      | 114,3x48,3   | 114,3    | ±1,6                                  | 48,3    | +1,6/- 0,8         | 102                      | ±2      | 6,02     | ±0,8                | 3,68    | ±0,5    | 40                    |      |
| RCST0402                                    | RCXS0402               | 4" x 2"              | 100x50                      | 114,3x60,3   | 114,3    | ±1,6                                  | 60,3    | +1,6/- 0,8         | 102                      | ±2      | 6,02     | ±0,8                | 3,91    | ±0,5    | 40                    |      |
| RCST042M                                    | RCXS042M               | 4" x 21/2"           | 100x65                      | 114,3x73,0   | 114,3    | ±1,6                                  | 73,0    | +1,6/- 0,8         | 102                      | ±2      | 6,02     | ±0,8                | 5,16    | ±0,6    | 40                    |      |
| RCST0403                                    | RCXS0403               | 4" x 3"              | 100x80                      | 114,3x88,9   | 114,3    | ±1,6                                  | 88,9    | ±1,6               | 102                      | ±2      | 6,02     | ±0,8                | 5,49    | ±0,7    | 40                    |      |
| RCST052M                                    | RCXS052M               | 5" x 21/2"           | 125x65                      | 141,3x73,0   | 141,3    | +2,4/- 1,6                            | 73,0    | +1,6/- 0,8         | 127                      | ±2      | 6,55     | ±0,8                | 5,16    | ±0,6    | 40                    |      |
| RCST0503                                    | RCXS0503               | 5" x 3"              | 125x80                      | 141,3x88,9   | 141,3    | +2,4/- 1,6                            | 88,9    | ±1,6               | 127                      | ±2      | 6,55     | ±0,8                | 5,49    | ±0,7    | 40                    |      |
| RCST0504                                    | RCXS0504               | 5" x 4"              | 125x100                     | 141,3x114,3  | 141,3    | +2,4/- 1,6                            | 114,3   | ±1,6               | 127                      | ±2      | 6,55     | ±0,8                | 6,02    | ±0,8    | 40                    |      |
| RCST062M                                    | RCXS062M               | 6" x 21/2"           | 150x65                      | 168,3 x 73,0 | 168,3    | +2,4/- 1,6                            | 73,0    | +1,6/- 0,8         | 140                      | ±2      | 7,11     | ±0,9                | 5,16    | ±0,6    | 40                    |      |
| RCST0603                                    | RCXS0603               | 6" x 3"              | 150x80                      | 168,3 x 88,9 | 168,3    | +2,4/- 1,6                            | 88,9    | ±1,6               | 140                      | ±2      | 7,11     | ±0,9                | 5,49    | ±0,7    | 40                    |      |
| RCST0604                                    | RCXS0604               | 6" x 4"              | 150x100                     | 168,3x 114,3 | 168,3    | +2,4/- 1,6                            | 114,3   | ±1,6               | 140                      | ±2      | 7,11     | ±0,9                | 6,02    | ±0,8    | 40                    |      |
| RCST0605                                    | RCXS0605               | 6" x 5"              | 150x125                     | 168,3x141,3  | 168,3    | +2,4/- 1,6                            | 141,3   | +2,4/- 1,6         | 140                      | ±2      | 7,11     | ±0,9                | 6,55    | ±0,8    | 40                    |      |
| RCST0804                                    | RCXS0804               | 8" x 4"              | 200x100                     | 219,1x114,3  | 219,1    | +2,4/- 1,6                            | 114,3   | ±1,6               | 152                      | ±2      | 8,18     | ±1,0                | 6,02    | ±0,8    | 40                    |      |
| RCST0805                                    | RCXS0805               | 8" x 5"              | 200x125                     | 219,1x141,3  | 219,1    | +2,4/- 1,6                            | 141,3   | +2,4/- 1,6         | 152                      | ±2      | 8,18     | ±1,0                | 6,55    | ±0,8    | 40                    |      |
| RCST0806                                    | RCXS0806               | 8" x 6"              | 200x150                     | 219,1x168,3  | 219,1    | +2,4/- 1,6                            | 168,3   | +2,4/- 1,6         | 152                      | ±2      | 8,18     | ±1,0                | 7,11    | ±0,9    | 40                    |      |



CAP STD Y XS  
CAP STD AND XS

| INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION |                      |                             |     |          |                                       |                    |                       |         |                     |         |                       |       |
|---------------------------------------------|----------------------|-----------------------------|-----|----------|---------------------------------------|--------------------|-----------------------|---------|---------------------|---------|-----------------------|-------|
| Designación - Designation                   |                      |                             |     |          | DIMENSIONES - DIMENSIONS              |                    |                       |         |                     |         | Peso<br>Weight aprox. |       |
| REF                                         |                      | Tubo de Acero<br>Steel tube |     |          | Diámetro exterior<br>Outside diameter | Longitug<br>Lenght | Espesor - Thickness   |         |                     |         |                       |       |
| Clase STD<br>STD Class                      | Clase XS<br>XS Class |                             |     |          |                                       |                    | Clase STD - STD Class |         | Clase XS - XS Class |         | STD                   | XS    |
|                                             |                      | NPS                         | DN  | Øext(mm) | D(mm)                                 | E(mm)              | T(mm)                 | Sch.No. | T(mm)               | Sch.No. | (kg)                  | (kg)  |
| CCSTX00M                                    | CCSXS00M             | 1/2"                        | 15  | 21,3     | 21,3                                  | +1,6/- 0,8         | 25                    | ±3      | 2,77                | ±0,3    | 40                    | 3,73  |
| CCSTX034                                    | CCSXS034             | 3/4"                        | 20  | 26,7     | 26,7                                  | +1,6/- 0,8         | 25                    | ±3      | 2,87                | ±0,4    | 40                    | 3,91  |
| CCSTX001                                    | CCSXS001             | 1"                          | 25  | 33,4     | 33,4                                  | +1,6/- 0,8         | 38                    | ±3      | 3,38                | ±0,4    | 40                    | 4,55  |
| CCSTX01C                                    | CCSXS01C             | 1 1/4"                      | 32  | 42,2     | 42,2                                  | +1,6/- 0,8         | 38                    | ±3      | 3,56                | ±0,4    | 40                    | 4,85  |
| CCSTX01M                                    | CCSXS01M             | 1 1/2"                      | 40  | 48,3     | 48,3                                  | +1,6/- 0,8         | 38                    | ±3      | 3,68                | ±0,5    | 40                    | 5,08  |
| CCSTX002                                    | CCSXS002             | 2"                          | 50  | 60,3     | 60,3                                  | +1,6/- 0,8         | 38                    | ±3      | 3,91                | ±0,5    | 40                    | 5,54  |
| CCSTX02M                                    | CCSXS02M             | 2 1/2"                      | 65  | 73,0     | 73,0                                  | +1,6/- 0,8         | 38                    | ±3      | 5,16                | ±0,6    | 40                    | 7,01  |
| CCSTX003                                    | CCSXS003             | 3"                          | 80  | 88,9     | 88,9                                  | ±1,6               | 51                    | ±3      | 5,49                | ±0,7    | 40                    | 7,62  |
| CCSTX004                                    | CCSXS004             | 4"                          | 100 | 114,3    | 114,3                                 | ±1,6               | 64                    | ±3      | 6,02                | ±0,8    | 40                    | 8,56  |
| CCSTX005                                    | CCSXS005             | 5"                          | 125 | 141,3    | 141,3                                 | +2,4/- 1,6         | 76                    | ±6      | 6,55                | ±0,8    | 40                    | 9,53  |
| CCSTX006                                    | CCSXS006             | 6"                          | 150 | 168,3    | 168,3                                 | +2,4/- 1,6         | 89                    | ±6      | 7,11                | ±0,9    | 40                    | 10,97 |
| CCSTX008                                    | CCSXS008             | 8"                          | 200 | 219,1    | 219,1                                 | +2,4/- 1,6         | 102                   | ±6      | 8,18                | ±1,0    | 40                    | 12,70 |
| CCSTX010                                    | CCSXS010             | 10"                         | 250 | 273,0    | 273,0                                 | +4,0/- 3,2         | 127                   | ±6      | 9,27                | ±1,2    | 40                    | 12,70 |

MANGUITO PAVONADO Fº270  
BLACK STEEL SOCKETS Fº270

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL

| REFERENCIA | MEDIDAS                  |
|------------|--------------------------|
| PAV27001   | MANGUITO PAVONADO 1"     |
| PAV2700M   | MANGUITO PAVONADO 1/2"   |
| PAV2700C   | MANGUITO PAVONADO 1/4"   |
| PAV27018   | MANGUITO PAVONADO 1/8"   |
| PAV2701M   | MANGUITO PAVONADO 1 1/2" |
| PAV2701C   | MANGUITO PAVONADO 1 1/4" |
| PAV27002   | MANGUITO PAVONADO 2"     |
| PAV2702M   | MANGUITO PAVONADO 2 1/2" |
| PAV27003   | MANGUITO PAVONADO 3"     |
| PAV27034   | MANGUITO PAVONADO 3/4"   |
| PAV27038   | MANGUITO PAVONADO 3/8"   |
| PAV27004   | MANGUITO PAVONADO 4"     |



NIPLE PAVONADO Fº149  
BLACK STEEL WELDING NIPPLE Fº149

| REFERENCIA | MEDIDAS                |
|------------|------------------------|
| PAV14901   | NIPLES PAVONADO 1"     |
| PAV1490M   | NIPLES PAVONADO 1/2"   |
| PAV1490C   | NIPLES PAVONADO 1/4"   |
| PAV14918   | NIPLES PAVONADO 1/8"   |
| PAV1491M   | NIPLES PAVONADO 1 1/2" |
| PAV1491C   | NIPLES PAVONADO 1 1/4" |
| PAV14902   | NIPLES PAVONADO 2"     |
| PAV1492M   | NIPLES PAVONADO 2 1/2" |
| PAV14903   | NIPLES PAVONADO 3"     |
| PAV14934   | NIPLES PAVONADO 3/4"   |
| PAV14938   | NIPLES PAVONADO 3/8"   |
| PAV14904   | NIPLES PAVONADO 4"     |



PUNTERA ACERO C/CAJERA H  
PUNTERA ACERO S/CAJERA M  
BLACK STEEL SOCKET



S/CAJERA MACHO

| REFERENCIA<br>S/CAJERA | MEDIDAS              | REFERENCIA<br>C/CAJERA |
|------------------------|----------------------|------------------------|
| PAV13201               | PUNTERA ACERO 1"     | PAV13101               |
| PAV1320M               | PUNTERA ACERO 1/2"   | PAV1310M               |
| PAV1320C               | PUNTERA ACERO 1/4"   | PAV1310C               |
| PAV13218               | PUNTERA ACERO 1/8"   | PAV131418              |
| PAV1321M               | PUNTERA ACERO 1 1/2" | PAV1311M               |
| PAV1321C               | PUNTERA ACERO 1 1/4" | PAV1311C               |
| PAV13202               | PUNTERA ACERO 2"     | PAV13102               |
| PAV1322M               | PUNTERA ACERO 2 1/2" | PAV1312M               |
| PAV13203               | PUNTERA ACERO 3"     | PAV13103               |
| PAV13234               | PUNTERA ACERO 3/4"   | PAV13134               |
| PAV13238               | PUNTERA ACERO 3/8"   | PAV13138               |
| PAV13204               | PUNTERA ACERO 4"     | PAV13104               |



C/CAJERA HEMBRA

CODO 90°



TUERCA UNION



MANGUITO



TE

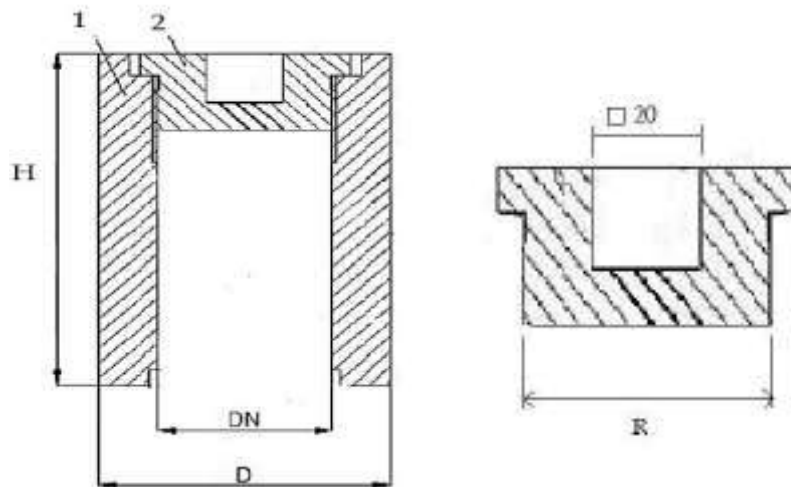


## TABLA DE PRESION Y TEMPERATURA ACERO AL CARBONO A 105

| TEMPERATURA |           | SERIE 3000         |      | SERIE 6000         |      |
|-------------|-----------|--------------------|------|--------------------|------|
| °C          | °F        | KG/CM <sup>2</sup> | PSI  | KG/CM <sup>2</sup> | PSI  |
| -29 A 38    | -20 A 100 | 210                | 3000 | 420                | 6000 |
| 66          | 150       | 203,5              | 2955 | 415                | 5916 |
| 93          | 200       | 204                | 2915 | 407                | 5830 |
| 121         | 250       | 200,5              | 2875 | 405                | 5750 |
| 149         | 300       | 199                | 2845 | 399                | 5690 |
| 177         | 350       | 1097               | 2810 | 394                | 5625 |
| 204         | 400       | 194                | 2775 | 388                | 5550 |
| 232         | 450       | 190,5              | 2715 | 380                | 5430 |
| 260         | 500       | 182,5              | 2605 | 365                | 5210 |
| 288         | 550       | 172                | 2460 | 345                | 4925 |
| 316         | 600       | 162                | 2310 | 323                | 4620 |
| 343         | 650       | 150,5              | 2150 | 305                | 4300 |
| 371         | 700       | 137                | 1960 | 275                | 3920 |
| 399         | 750       | 124                | 1755 | 249                | 3550 |
| 427         | 800       | 1017               | 1525 | 213                | 3050 |

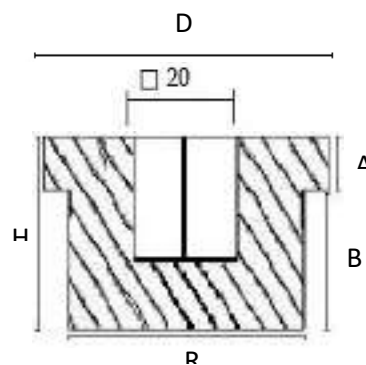
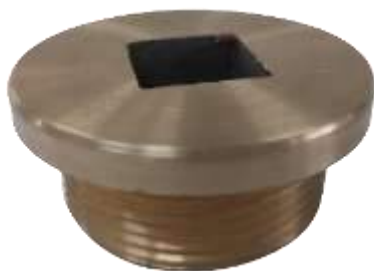


TAPIN DE Sonda A<sup>o</sup> CARBONO / BRONCE  
CARBON / BRONZE BUILT-IN SOUNDING PLUG



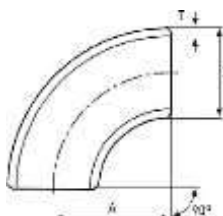
| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |    |                         |        |        |                                 |
|-------------------------------------------|----|-------------------------|--------|--------|---------------------------------|
| REF.                                      | DN | DIMENSIONES- DIMENSIONS |        |        | Peso aprox / Weight approx (KG) |
|                                           |    | D (mm)                  | H (mm) | R (mm) |                                 |
| TSOVL040                                  | 40 | 80                      | 90     | 1/2"   | 2,60                            |
| TSOVL050                                  | 50 | 90                      | 93     | 2"     | 3,20                            |

TAPON DE TAPIN DE Sonda BRONCE  
IRON / BRONZE BUILT-IN SOUNDING CAP PLUG



| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |                         |        |        |        |        |        |    |                                 |
|-------------------------------------------|-------------------------|--------|--------|--------|--------|--------|----|---------------------------------|
| REF.                                      | DIMENSIONES- DIMENSIONS |        |        |        |        |        |    | Peso aprox / Weight approx (KG) |
|                                           | DN                      | D (mm) | H (mm) | A (mm) | B (mm) | R (mm) |    |                                 |
| TSOVL040                                  | 40-1/2"                 | 59     | 27     | 7      | 20     | 11/2"  | 20 | 2,60                            |
| TSOVL050                                  | 50-2"                   | 70     | 27     | 7      | 20     | 2"     | 20 | 3,20                            |

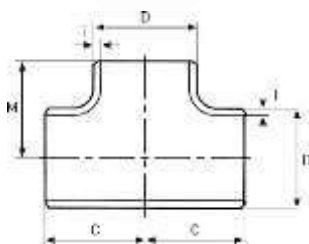
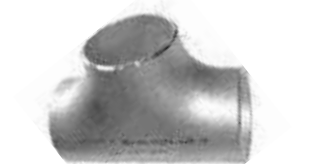
# CODO 90° INOX316 SCH10 STAINLESS STEEL ELBOW 90° SCH10



## INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     |          | DN     | DIMENSIONES- DIMENSIONS |           |               | Peso /<br>Weight<br>approx<br>(KG) |
|----------|----------|--------|-------------------------|-----------|---------------|------------------------------------|
| INOX304  | INOX316  |        | D<br>(mm)               | T<br>(mm) | A = R<br>(mm) |                                    |
| C90RL20M | C90RL10M | 1/2"   | 21,34                   | 2,11      | 38            | 0,06                               |
| C90RL234 | C90RL134 | 3/4"   | 26,67                   | 2,11      | 38            | 0,06                               |
| C90RL201 | C90RL101 | 1"     | 33,40                   | 2,77      | 38            | 0,16                               |
| C90RL21C | C90RL11C | 1.1/4" | 42,16                   | 2,77      | 48            | 0,20                               |
| C90RL21M | C90RL11M | 1.1/2" | 48,26                   | 2,77      | 57            | 0,28                               |
| C90RL202 | C90RL102 | 2"     | 60,32                   | 2,77      | 76            | 0,47                               |
| C90RL22M | C90RL12M | 2.1/2" | 73,02                   | 3,05      | 95            | 0,79                               |
| C90RL203 | C90RL103 | 3"     | 88,90                   | 3,05      | 114           | 1,16                               |
| C90RL204 | C90RL104 | 4"     | 114,30                  | 3,05      | 152           | 2,00                               |
| C90RL205 | C90RL105 | 5"     | 141,30                  | 3,40      | 190           | 3,46                               |
| C90RL206 | C90RL106 | 6"     | 168,27                  | 3,40      | 229           | 4,96                               |
| C90RL208 | C90RL108 | 8"     | 219,08                  | 3,76      | 305           | 9,55                               |
| C90RL210 | C90RL110 | 10"    | 273,05                  | 4,19      | 381           | 16,60                              |

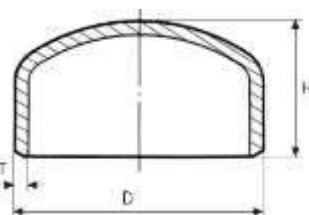
# TE SCH10 INOX 316 STAINLESS STEEL TE SCH10



## INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     | DN     | DIMENSIONES- DIMENSIONS |           |           |           | Peso /<br>Weight<br>approx<br>(KG) |
|----------|--------|-------------------------|-----------|-----------|-----------|------------------------------------|
|          |        | D<br>(mm)               | T<br>(mm) | M<br>(mm) | C<br>(mm) |                                    |
| TSH3160M | 1/2"   | 21,34                   | 2,11      | 25,40     | 25,40     | 0,07                               |
| TSH31634 | 3/4"   | 26,67                   | 2,11      | 28,70     | 28,70     | 0,09                               |
| TSH31601 | 1"     | 33,40                   | 2,77      | 38,10     | 38,10     | 0,20                               |
| TSH3161C | 1.1/4" | 42,16                   | 2,77      | 47,75     | 47,75     | 0,33                               |
| TSH3161M | 1.1/2" | 48,26                   | 2,77      | 57,15     | 57,15     | 0,46                               |
| TSH31602 | 2"     | 60,32                   | 2,77      | 63,50     | 63,50     | 0,63                               |
| TSH3162M | 2.1/2" | 73,02                   | 3,05      | 76,20     | 76,20     | 1,01                               |
| TSH31603 | 3"     | 88,90                   | 3,05      | 85,85     | 85,85     | 1,37                               |
| TSH31604 | 4"     | 114,30                  | 3,05      | 104,90    | 104,90    | 2,15                               |
| TSH31605 | 5"     | 141,30                  | 3,40      | 123,95    | 123,95    | 3,48                               |
| TSH31606 | 6"     | 168,27                  | 3,40      | 143,00    | 143,00    | 4,76                               |
| TSH31608 | 8"     | 219,08                  | 3,76      | 177,80    | 177,80    | 8,46                               |
| TSH31610 | 10"    | 273,05                  | 4,19      | 215,90    | 215,90    | 14,20                              |

# CAP SCH10 INOX 316 STAINLESS STEEL CAP SCH10



## INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     | DN     | DIMENSIONES- DIMENSIONS |           |           | Peso /<br>Weight<br>approx<br>(KG) |
|----------|--------|-------------------------|-----------|-----------|------------------------------------|
|          |        | D<br>(mm)               | T<br>(mm) | M<br>(mm) |                                    |
| CCSC140M | 1/2"   | 21,34                   | 2,11      | 25,40     | 0,03                               |
| CCSC1434 | 3/4"   | 26,67                   | 2,11      | 28,70     | 0,04                               |
| CCSC1401 | 1"     | 33,40                   | 2,77      | 38,10     | 0,09                               |
| CCSC141C | 1.1/4" | 42,16                   | 2,77      | 47,75     | 0,11                               |
| CCSC141M | 1.1/2" | 48,26                   | 2,77      | 57,15     | 0,13                               |
| CCSC1402 | 2"     | 60,32                   | 2,77      | 63,50     | 0,17                               |
| CCSC142M | 2.1/2" | 73,02                   | 3,05      | 76,20     | 0,23                               |
| CCSC1403 | 3"     | 88,90                   | 3,05      | 85,85     | 0,37                               |
| CCSC1404 | 4"     | 114,30                  | 3,05      | 104,90    | 0,59                               |
| CCSC1405 | 5"     | 141,30                  | 3,40      | 123,95    | 1,00                               |
| CCSC1406 | 6"     | 168,27                  | 3,40      | 143,00    | 1,39                               |
| CCSC1408 | 8"     | 219,08                  | 3,76      | 177,80    | 2,38                               |
| CCSC140  | 10"    | 273,05                  | 4,19      | 215,90    | 4,14                               |

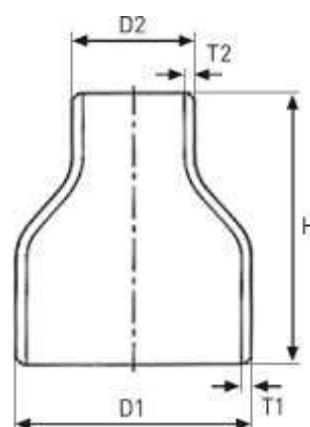
REDUCCIÓN SCH10 INOX 316  
STAINLESS STEEL REDUCTION SCH10

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL

INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

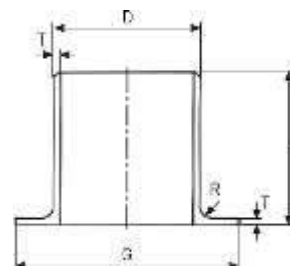
| REF.     | DN            | DIMENSIONES- DIMENSIONS |            |            |            |           | Peso /<br>Weight<br>approx<br>(KG) |
|----------|---------------|-------------------------|------------|------------|------------|-----------|------------------------------------|
| INOX316  |               | D1<br>(mm)              | D2<br>(mm) | T1<br>(mm) | T2<br>(mm) | H<br>(mm) |                                    |
| RC14340M | 3/4"-1/2"     | 3/4"-1/2"               | 26,67      | 21,34      | 2,11       | 2,11      | 0,04                               |
| RC14010M | 1"-1/2"       | 1"-1/2"                 | 33,40      | 21,34      | 2,77       | 2,77      | 0,09                               |
| RC140134 | 1"-3/4"       | 1"-3/4"                 | 33,40      | 26,67      | 2,77       | 2,77      | 0,10                               |
| RC141C34 | 1.1/4"-3/4"   | 1.1/4"-3/4"             | 42,16      | 26,67      | 2,77       | 2,77      | 0,12                               |
| RC1401C1 | 1.1/4"-1"     | 1.1/4"-1"               | 42,16      | 33,40      | 2,77       | 2,77      | 0,12                               |
| RC1401MM | 1.1/2"-1/2"   | 1.1/2"-1/2"             | 48,26      | 21,34      | 2,77       | 2,77      | 0,14                               |
| RC142M01 | 2.1/2"        | 48,26                   | 26,67      | 2,77       | 2,77       | 63,5      | 0,15                               |
| RC141M34 | 1.1/2"-3/4"   | 48,26                   | 33,40      | 2,77       | 2,77       | 63,5      | 0,17                               |
| RC141M01 | 1.1/2"-1"     | 48,26                   | 42,16      | 2,77       | 2,77       | 63,5      | 0,18                               |
| RC141M1C | 1.1/4"-1.1/2" | 60,32                   | 26,67      | 2,77       | 2,77       | 76,2      | 0,22                               |
| RC141C1M | 2"-3/4"       | 60,32                   | 33,40      | 2,77       | 2,77       | 76,2      | 0,23                               |
| RC140201 | 2"-1"         | 60,32                   | 42,16      | 2,77       | 2,77       | 76,2      | 0,25                               |
| RC14021C | 2"-1.1/4"     | 60,32                   | 48,26      | 3,05       | 3,05       | 76,2      | 0,27                               |
| RC14021M | 2"-1.1/2"     | 73,02                   | 48,26      | 3,05       | 3,05       | 88,9      | 0,39                               |
| RC142M1M | 2.1/2"-1.1/2" | 73,02                   | 60,32      | 3,05       | 3,05       | 88,9      | 0,43                               |
| RC142M02 | 2.1/2"-2"     | 88,90                   | 48,26      | 3,05       | 3,05       | 88,9      | 0,45                               |
| RC14031M | 3"-1.1/2"     | 88,90                   | 60,32      | 3,05       | 3,05       | 88,9      | 0,48                               |
| RC140302 | 3"-2"         | 88,90                   | 73,02      | 3,05       | 3,05       | 88,9      | 0,52                               |
| RC14032M | 3"-2.1/2"     | 114,30                  | 60,32      | 3,05       | 3,05       | 101,6     | 0,67                               |
| RC140402 | 4"-2"         | 114,30                  | 73,02      | 3,05       | 3,05       | 101,6     | 0,71                               |
| RC14042M | 4"-2.1/2"     | 114,30                  | 88,90      | 3,05       | 3,05       | 101,6     | 0,76                               |
| RC140403 | 4"-3"         | 141,30                  | 88,90      | 3,40       | 3,40       | 127,0     | 1,22                               |
| RC140503 | 5"-3"         | 141,30                  | 114,30     | 3,40       | 3,40       | 127,0     | 1,33                               |
| RC140504 | 5"-4"         | 168,27                  | 88,90      | 3,40       | 3,40       | 139,7     | 1,53                               |
| RC140603 | 6"-3"         | 168,27                  | 114,30     | 3,40       | 3,40       | 139,7     | 1,65                               |
| RC140604 | 6"-4"         | 168,27                  | 141,30     | 3,40       | 3,40       | 139,7     | 1,78                               |
| RC140605 | 6"-5"         | 219,08                  | 114,30     | 3,76       | 3,76       | 152,4     | 2,43                               |
| RC140804 | 8"-4"         | 219,08                  | 141,30     | 3,76       | 3,76       | 152,4     | 2,57                               |
| RC140805 | 8"-5"         | 219,08                  | 168,27     | 3,76       | 3,76       | 152,4     | 2,72                               |
| RC140806 | 8"-6"         | 273,05                  | 168,27     | 4,19       | 4,19       | 179,0     | 4,14                               |
| RC141006 | 10"-6"        | 273,05                  | 219,08     | 4,19       | 4,19       | 179,0     | 4,49                               |
| RC141008 | 10"-8"        | 48,26                   | 26,67      | 2,77       | 2,77       | 63,5      | 0,15                               |

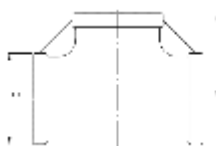


PORTABRIDAS VALONA SCH10 INOX 316  
STAINLESS STEEL STUB-END SCH10

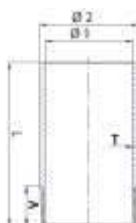
INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     | DN     | DIMENSIONES- DIMENSIONS |           |           |           |           | Peso /<br>Weight<br>(KG) |
|----------|--------|-------------------------|-----------|-----------|-----------|-----------|--------------------------|
| INOX316  |        | D<br>(mm)               | T<br>(mm) | F<br>(mm) | G<br>(mm) | R<br>(mm) |                          |
| VALO4A0M | 1/2"   | 21,34                   | 2,11      | 50,80     | 34,93     | 3,30      | 0,08                     |
| VALO4A34 | 3/4"   | 26,67                   | 2,11      | 50,80     | 42,88     | 3,30      | 0,09                     |
| VALO4A01 | 1"     | 33,40                   | 2,77      | 50,80     | 50,80     | 3,30      | 0,14                     |
| VALO4A1C | 1.1/4" | 42,16                   | 2,77      | 50,80     | 63,50     | 4,83      | 0,21                     |
| VALO4A1M | 1.1/2" | 48,26                   | 2,77      | 50,80     | 73,02     | 6,35      | 0,25                     |
| VALO4A02 | 2"     | 60,32                   | 2,77      | 63,50     | 92,07     | 7,87      | 0,38                     |
| VALO4A2M | 2.1/2" | 73,02                   | 3,05      | 63,50     | 104,77    | 7,87      | 0,47                     |
| VALO4A03 | 3"     | 88,90                   | 3,05      | 63,50     | 127,00    | 9,65      | 0,64                     |
| VALO4A04 | 4"     | 114,30                  | 3,05      | 76,20     | 157,08    | 11,18     | 0,98                     |
| VALO4A05 | 5"     | 141,30                  | 3,40      | 76,20     | 185,70    | 11,18     | 1,24                     |
| VALO4A06 | 6"     | 168,27                  | 3,40      | 88,90     | 215,90    | 13,00     | 1,95                     |
| VALO4A08 | 8"     | 219,08                  | 3,76      | 101,60    | 269,90    | 13,00     | 3,10                     |

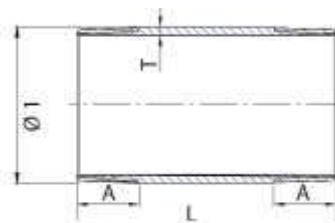




| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |                         |        |                                 |
|-------------------------------------------|--------|-------------------------|--------|---------------------------------|
| REF.                                      | DN     | DIMENSIONES- DIMENSIONS |        | Peso aprox / Weight approx (KG) |
|                                           |        | L (mm)                  | D (mm) |                                 |
| 31613018                                  | 1/8"   | 17                      | 14,9   | 0,03                            |
| 3161300C                                  | 1/4"   | 19                      | 17,5   | 0,04                            |
| 31613038                                  | 3/8"   | 22                      | 22,0   | 0,06                            |
| 3161300M                                  | 1/2"   | 27                      | 27,0   | 0,095                           |
| 31613034                                  | 3/4"   | 32                      | 32,0   | 0,155                           |
| 31613001                                  | 1"     | 38                      | 39,5   | 0,245                           |
| 3161301C                                  | 1 1/4" | 45                      | 49,0   | 0,335                           |
| 3161301M                                  | 1 1/2" | 48                      | 55,0   | 0,53                            |
| 31613002                                  | 2"     | 57                      | 67,0   | 0,725                           |
| 3161302M                                  | 2 1/2" | 69                      | 84,0   | 1,17                            |
| -                                         | 3"     | 78                      | 98,5   | 1,695                           |
| -                                         | 4"     | 96                      | 123,5  | 3,04                            |

**NIPLE ROSCADO INOXIDABLE 316 F<sup>a</sup>149**  
**STAINLESS STEEL WELDING NIPPLE**


| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |                |                         |        |        |        |         |         |         |                                 |
|-------------------------------------------|----------------|-------------------------|--------|--------|--------|---------|---------|---------|---------------------------------|
| REF.                                      | DN             | DIMENSIONES- DIMENSIONS |        |        |        |         |         |         | Peso aprox / Weight approx (KG) |
|                                           |                | A (mm)                  | L (mm) | C (mm) | E (mm) | Ø1 (mm) | Ø2 (mm) | ØT (mm) |                                 |
| -                                         | 1/8" X 30 mm   | 11                      | 30     | 0,5    | 1,0    | 6,0     | 10,0    | 2,0     | 0,01                            |
| 3161490C                                  | 1/4" X 30 mm   | 11                      | 30     | 0,5    | 1,5    | 9,6     | 14,0    | 2,2     | 0,015                           |
| 31614938                                  | 3/8" X 30 mm   | 12                      | 30     | 0,5    | 1,5    | 12,6    | 17,2    | 2,3     | 0,02                            |
| 3161490M                                  | 1/2" X 35 mm   | 15                      | 35     | 0,5    | 1,8    | 15,86   | 21,4    | 2,77    | 0,03                            |
| 31614934                                  | 3/4" X 40 mm   | 17                      | 40     | 0,5    | 1,8    | 20,96   | 26,7    | 2,87    | 0,055                           |
| 31614901                                  | 1" X 40 mm     | 20                      | 40     | 0,5    | 2,2    | 26,64   | 33,4    | 3,38    | 0,08                            |
| 3161491C                                  | 1 1/4" X 50 mm | 21                      | 50     | 0,5    | 2,2    | 35,08   | 42,2    | 3,56    | 0,115                           |
| 3161491M                                  | 1 1/2" X 50 mm | 21                      | 50     | 0,5    | 2,2    | 40,94   | 48,3    | 3,68    | 0,130                           |
| 31614902                                  | 2" X 50 mm     | 26                      | 50     | 0,75   | 2,2    | 52,58   | 60,4    | 3,91    | 0,18                            |
| -                                         | 2 1/2" X 60 mm | 28                      | 60     | 0,75   | 2,2    | 62,78   | 76,0    | 3,65    | 0,33                            |
| 31614903                                  | 3" X 70 mm     | 31                      | 70     | 0,75   | 2,2    | 77,92   | 88,9    | 4,05    | 0,45                            |
| 31614904                                  | 4" X 80 mm     | 35                      | 80     | 0,75   | 2,2    | 102,56  | 114,3   | 4,5     | 0,85                            |


**BOBINA ROSCADA INOXIDABLE 316 F<sup>a</sup>530**  
**STAINLESS STEEL BARRIEL NIPPLE**


| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |                |                         |        |        |        |         |        |                                 |
|-------------------------------------------|----------------|-------------------------|--------|--------|--------|---------|--------|---------------------------------|
| REF.                                      | DN             | DIMENSIONES- DIMENSIONS |        |        |        |         |        | Peso aprox / Weight approx (KG) |
|                                           |                | A (mm)                  | L (mm) | C (mm) | E (mm) | Ø1 (mm) | T (mm) |                                 |
| 3165300C                                  | 1/4 "X 40 mm   | 11                      | 40     | 0,5    | 1,5    | 13,72   | 2,24   | 0,02                            |
| 31653038                                  | 3/8 "X 40 mm   | 12                      | 40     | 0,5    | 1,5    | 17,13   | 2,31   | 0,025                           |
| 3165300M                                  | 1/2 "X 60 mm   | 15                      | 60     | 0,5    | 1,8    | 21,34   | 2,50   | 0,055                           |
| 31653034                                  | 3/4 "X 60 mm   | 17                      | 60     | 0,5    | 1,8    | 26,67   | 2,50   | 0,075                           |
| 31653001                                  | 1 "X 60 mm     | 20                      | 60     | 0,5    | 2,2    | 33,40   | 3      | 0,095                           |
| 3165301C                                  | 1 1/4 "X 80 mm | 22                      | 80     | 0,5    | 2,2    | 42,16   | 3      | 0,18                            |
| 3165301M                                  | 1 1/2 "X 80 mm | 22                      | 80     | 0,5    | 2,2    | 48,26   | 3      | 0,26                            |
| 31653002                                  | 2" x 100 mm    | 26                      | 100    | 0,5    | 2,2    | 60,33   | 3,5    | 0,355                           |

CODO 90º ROSCADO INOXIDABLE 316  
Fª90 H/H  
THREADED STAINLESS STEEL FITTING  
ELBOW 90º F/F

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL

INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

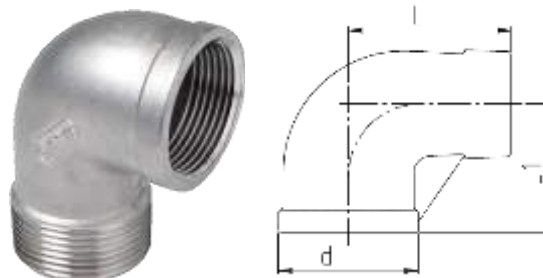
| REF.     | DN     | DIMENSIONES- DIMENSIONS |       | Peso aprox /<br>Weight approx<br>(KG) |
|----------|--------|-------------------------|-------|---------------------------------------|
|          |        | c (mm)                  | d(mm) |                                       |
| 31609018 | 1/8"   | 17                      | 14,6  | 0,020                                 |
| 3160900C | 1/4"   | 19                      | 17,5  | 0,025                                 |
| 31609038 | 3/8"   | 23                      | 22,0  | 0,045                                 |
| 3160900M | 1/2"   | 27                      | 27,0  | 0,075                                 |
| 31609034 | 3/4"   | 32                      | 32,0  | 0,110                                 |
| 31609001 | 1"     | 38                      | 39,5  | 0,175                                 |
| 3160901C | 1 1/4" | 45                      | 49,0  | 0,285                                 |
| 3160901M | 1 1/2" | 48                      | 55,0  | 0,375                                 |
| 31609002 | 2"     | 57                      | 67,0  | 0,530                                 |
| 3160902M | 2 1/2" | 69                      | 84,0  | 0,945                                 |
| 31609003 | 3"     | 78                      | 98,5  | 1,355                                 |
| 31609004 | 4"     | 96                      | 123,5 | 2,405                                 |



CODO 90º ROSCADO INOXIDABLE 316  
Fª92 M/H  
THREADED STAINLESS STEEL FITTING  
ELBOW 90º M/F

INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     | DN     | DIMENSIONES- DIMENSIONS |        |        | Peso aprox /Weight<br>approx (KG) |
|----------|--------|-------------------------|--------|--------|-----------------------------------|
|          |        | L1 (mm)                 | L (mm) | d (mm) |                                   |
| 31609218 | 1/8"   | 17                      | 26     | 14,6   | 0,020                             |
| 3160920C | 1/4"   | 19                      | 28     | 17,5   | 0,030                             |
| 31609238 | 3/8"   | 23                      | 32     | 22,0   | 0,045                             |
| 3160920M | 1/2"   | 27                      | 36     | 27,0   | 0,075                             |
| 31609234 | 3/4"   | 32                      | 42     | 32,0   | 0,105                             |
| 31609201 | 1"     | 38                      | 53     | 39,5   | 0,180                             |
| 3160921C | 1 1/4" | 45                      | 59     | 49,0   | 0,270                             |
| 3160921M | 1 1/2" | 48                      | 64     | 55,0   | 0,360                             |
| 31609202 | 2"     | 57                      | 72     | 67,0   | 0,600                             |
| 3160922M | 2 1/2" | 69                      | 87     | 84,0   | 0,960                             |
| 31609203 | 3"     | 78                      | 102    | 98,5   | 1,540                             |



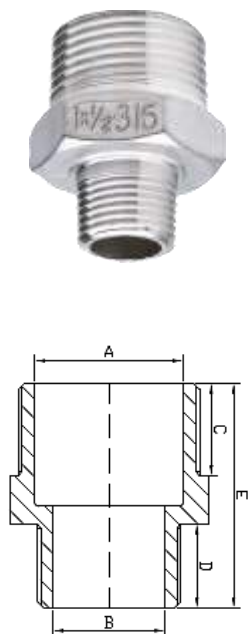
CODO 45º INOXIDABLE 316 Fª120 H/H  
THREADED STAINLESS STEEL FITTING  
ELBOW F/F 45º

INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

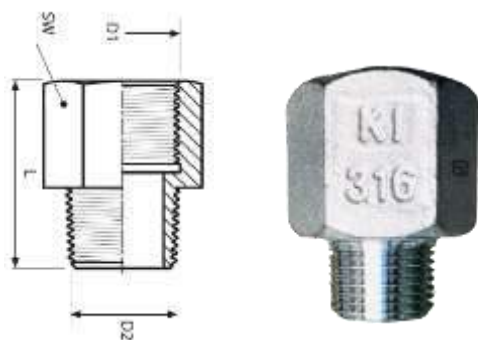
| REF.     | DN     | DIMENSIONES- DIMENSIONS |        | Peso aprox / Weight<br>approx (KG) |
|----------|--------|-------------------------|--------|------------------------------------|
|          |        | C (mm)                  | D (mm) |                                    |
| 3161200C | 1/4"   | 17                      | 17,5   | 0,025                              |
| 31612038 | 3/8"   | 19                      | 22,0   | 0,040                              |
| 3161200M | 1/2"   | 21                      | 27,0   | 0,069                              |
| 31612034 | 3/4"   | 25                      | 32,0   | 0,095                              |
| 31612001 | 1"     | 29                      | 39,5   | 0,165                              |
| 3161201C | 1 1/4" | 33                      | 49,0   | 0,215                              |
| 3161201M | 1 1/2" | 37                      | 55,0   | 0,305                              |
| 31612002 | 2"     | 42                      | 67,0   | 0,475                              |
| 3161202M | 2 1/2" | 48                      | 84,0   | 0,790                              |
| 31612003 | 3"     | 54                      | 98,5   | 1,110                              |







| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |                 |                         |           |           |           |           |                                       |
|-------------------------------------------|-----------------|-------------------------|-----------|-----------|-----------|-----------|---------------------------------------|
| REF.                                      | DN              | DIMENSIONES- DIMENSIONS |           |           |           |           | Peso aprox /<br>Weight approx<br>(KG) |
|                                           |                 | A<br>(mm)               | B<br>(mm) | C<br>(mm) | D<br>(mm) | E<br>(mm) |                                       |
| 42450C18                                  | 1/4" x 1/8"     | 8,8                     | 5,8       | 13,3      | 11,0      | 30,0      | 0,015                                 |
| 42453818                                  | 3/8" x 1/8"     | 11,0                    | 5,7       | 14,5      | 10,0      | 33,0      | 0,030                                 |
| -                                         | 3/8" x 1/4"     | 11,1                    | 8,4       | 14,7      | 13,0      | 35,0      | 0,030                                 |
| 42450M0C                                  | 1/2" x 1/4"     | 14,7                    | 8,2       | 17,0      | 13,9      | 38,0      | 0,045                                 |
| 42450M38                                  | 1/2" x 3/8"     | 14,7                    | 11,0      | 17,0      | 14,5      | 39,8      | 0,050                                 |
| 4245340C                                  | 3/4" x 1/4"     | 20,2                    | 8,4       | 18,0      | 13,0      | 40,0      | 0,070                                 |
| 42453438                                  | 3/4" x 3/8"     | 20,6                    | 11,2      | 18,0      | 15,0      | 42,2      | 0,070                                 |
| 4245340M                                  | 3/4" x 1/2"     | 20,0                    | 14,5      | 18,0      | 16,8      | 43,5      | 0,070                                 |
| 4245010M                                  | 1" x 1/2"       | 26,2                    | 14,5      | 18,9      | 17,0      | 47,0      | 0,105                                 |
| 42450134                                  | 1" x 3/4"       | 26,2                    | 20,2      | 18,7      | 18,0      | 48,0      | 0,110                                 |
| 42451COM                                  | 1 1/4" x 1/2"   | 34,7                    | 14,7      | 21,2      | 17,2      | 50,0      | 0,165                                 |
| 42451C34                                  | 1 1/4" x 3/4"   | 34,7                    | 20,2      | 21,2      | 18,0      | 51,0      | 0,165                                 |
| 42451C01                                  | 1 1/4" x 1"     | 34,5                    | 26,0      | 21,5      | 19,5      | 52,0      | 0,175                                 |
| 42451M0M                                  | 1 1/2" x 1/2"   | 40,0                    | 14,6      | 21,5      | 16,0      | 50,5      | 0,205                                 |
| 42451M34                                  | 1 1/2" x 3/4"   | 40,2                    | 20,0      | 22,2      | 18,0      | 52,5      | 0,210                                 |
| 42451M01                                  | 1 1/2" x 1"     | 39,6                    | 26,0      | 22,2      | 19,0      | 53,2      | 0,210                                 |
| 42451M1C                                  | 1 1/2" x 1 1/4" | 40,2                    | 34,8      | 22,0      | 21,0      | 55,0      | 0,215                                 |
| 42450201                                  | 2" x 1"         | 51,4                    | 26,1      | 26,0      | 19,3      | 57,7      | 0,315                                 |
| 4245021C                                  | 2" x 1 1/4"     | 51,4                    | 34,6      | 25,7      | 21,4      | 60,4      | 0,325                                 |
| 4245021M                                  | 2" x 1 1/2"     | 51,2                    | 40,1      | 26,0      | 22,3      | 60,4      | 0,325                                 |
| -                                         | 2 1/2" x 1"     | 64,5                    | 26,5      | 31,0      | 20,0      | 64,5      | 0,575                                 |
| -                                         | 2 1/2" x 1 1/4" | 64,5                    | 35,0      | 31,0      | 21,0      | 65,5      | 0,575                                 |
| -                                         | 2 1/2" x 1 1/2" | 64,5                    | 40,3      | 31,0      | 22,0      | 66,5      | 0,575                                 |
| 42452M02                                  | 2 1/2" x 2"     | 65,5                    | 51,3      | 31,0      | 26,0      | 70,7      | 0,600                                 |
| 42450302                                  | 3" x 2"         | 77,5                    | 51,3      | 33,0      | 26,0      | 72,0      | 0,760                                 |
| -                                         | 3" x 2 1/2"     | 77,5                    | 64,5      | 33,0      | 31,0      | 77,6      | 0,855                                 |

**REDUCCION ROSCADA INOXIDABLE 316 F<sup>a</sup>246**  
**STAINLESS STEEL HEXAGON BUSHINGS**


| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |      |      |           |            |                                       |
|-------------------------------------------|------|------|-----------|------------|---------------------------------------|
| REF.                                      | D1   | D2   | L<br>(mm) | SW<br>(mm) | Peso aprox /<br>Weight approx<br>(KG) |
| I2461C38                                  | 1/4" | 1/8" | 26,0      | 15,0       | 0,02                                  |
| I2460C38                                  | 3/8" | 1/4" | 28,5      | 17,0       | 0,04                                  |
| -                                         | 3/8" | 3/8" | 31,0      | 21,0       | 0,04                                  |
| I2460M38                                  | 1/2" | 3/8" | 37,5      | 26,0       | 0,06                                  |
| -                                         | 1/2" | 1/2" | 37,5      | 32,0       | 0,07                                  |
| I246340M                                  | 3/4" | 1/2" | 46,0      | 38,0       | 0,10                                  |
| -                                         | 3/4" | 3/4" | 49,0      | 50,0       | 0,10                                  |
| I2460134                                  | 1"   | 3/4" | 51,0      | 54,0       | 0,13                                  |
| -                                         | 1"   | 1"   | 57,0      | 68,0       | 0,13                                  |

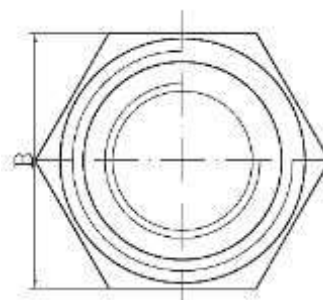
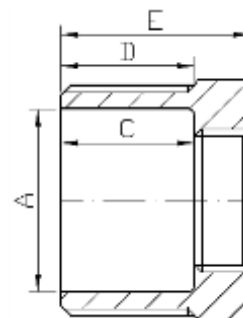
MANGUITO REDUCIDO ROSCADO INOXIDABLE  
316 F<sup>a</sup>240  
STAINLESS STEEL REDUCING SOCKET

| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |              |                         |        |        |        |        |        |                                 |
|-------------------------------------------|--------------|-------------------------|--------|--------|--------|--------|--------|---------------------------------|
| REF.                                      | DN           | DIMENSIONES- DIMENSIONS |        |        |        |        |        | Peso aprox / Weight approx (KG) |
|                                           |              | A (mm)                  | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |                                 |
| 42400C18                                  | 1/4"X 1/8"   | 14,4                    | 21,0   | 9,0    | 26,0   | 8,0    | 11,0   | 0,03                            |
| 4240380C                                  | 3/8" X 1/4"  | 17,5                    | 23,9   | 9,5    | 30,0   | 11,0   | 14,3   | 0,04                            |
| 42400M0C                                  | 1/2"X 1/4"   | 17,6                    | 27,5   | 13,0   | 34,0   | 11,0   | 18,0   | 0,05                            |
| 42400M38                                  | 1/2"X 3/8"   | 20,8                    | 27,3   | 12,8   | 34,0   | 14,3   | 18,0   | 0,055                           |
| -                                         | 3/4"X 1/4"   | 17,8                    | 32,5   | 10,0   | 34,4   | 11,0   | 23,5   | 0,065                           |
| 424034M                                   | 3/4"X 1/2"   | 27,0                    | 32,0   | 14,0   | 37,0   | 18,0   | 23,5   | 0,075                           |
| 4240010M                                  | 1"X 1/2"     | 27,5                    | 40,5   | 18,0   | 42,0   | 18,0   | 29,4   | 0,12                            |
| 42400134                                  | 1"X 3/4"     | 32,6                    | 40,5   | 15,0   | 42,0   | 23,5   | 29,5   | 0,13                            |
| 42401C01                                  | 11/4"X 1"    | 40,5                    | 49,5   | 16,0   | 48,6   | 29,4   | 38,0   | 0,185                           |
| 42401M01                                  | 11/2"X 1"    | 40,0                    | 55,0   | 21,0   | 52,0   | 29,5   | 43,6   | 0,24                            |
| 42401M1C                                  | 11/2"X 11/4" | 49,3                    | 55,0   | 23,5   | 52,5   | 38,0   | 43,6   | 0,23                            |
| 42400201                                  | 2"X 1"       | 40,0                    | 67,5   | 21,0   | 57,0   | 29,5   | 55,0   | 0,34                            |
| 4240021C                                  | 2"X 11/4"    | 49,3                    | 67,5   | 23,5   | 58,0   | 38,0   | 55,0   | 0,345                           |
| 4240021M                                  | 2"X 11/2"    | 55,5                    | 67,5   | 23,5   | 58,0   | 43,6   | 55,0   | 0,37                            |
| 42402M02                                  | 21/2"X 2"    | 67,5                    | 84,5   | 28,0   | 65,0   | 54,0   | 70,5   | 0,54                            |
| -                                         | 3"X 2"       | 67,5                    | 98,0   | 28,0   | 72,5   | 54,0   | 82,0   | 0,665                           |

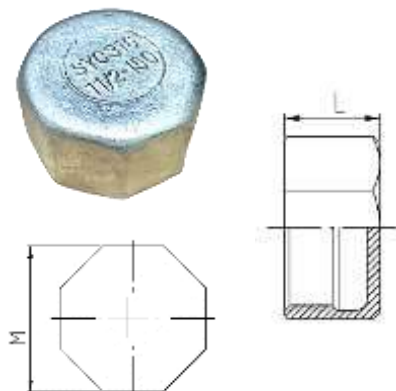


REDUCCION ROSCADO INOXIDABLE 316 F<sup>a</sup>241  
STAINLESS STEEL REDUCING BUSH

| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |                 |                         |        |        |        |        |                                 |
|-------------------------------------------|-----------------|-------------------------|--------|--------|--------|--------|---------------------------------|
| REF.                                      | DN              | DIMENSIONES- DIMENSIONS |        |        |        |        | Peso aprox / Weight approx (KG) |
|                                           |                 | A (mm)                  | B (mm) | C (mm) | D (mm) | E (mm) |                                 |
| 42410C18                                  | 1/4" x 1/8"     | 8,4                     | 15,0   | 12,0   | 12,5   | 19,0   | 0,010                           |
| 42413818                                  | 3/8" x 1/8"     | 11,0                    | 19,0   | 13,0   | 14,0   | 20,3   | 0,025                           |
| 4241380C                                  | 3/8" x 1/4"     | 11,0                    | 19,0   | 13,0   | 14,0   | 20,3   | 0,020                           |
| 42410M0C                                  | 1/2" x 1/4"     | 15,0                    | 22,5   | 15,0   | 17,0   | 23,7   | 0,035                           |
| 42410M38                                  | 1/2" x 3/8"     | 15,0                    | 22,5   | 14,0   | 17,0   | 23,7   | 0,030                           |
| 4241340C                                  | 3/4" x 1/4"     | 20,5                    | 29,0   | 16,4   | 18,0   | 26,0   | 0,065                           |
| 42413834                                  | 3/4" x 3/8"     | 20,5                    | 29,0   | 16,3   | 18,0   | 26,0   | 0,060                           |
| 42413C0M                                  | 3/4" x 1/2"     | 20,5                    | 29,0   | 15,8   | 18,0   | 26,0   | 0,050                           |
| 4241010M                                  | 1" x 1/2"       | 26,0                    | 35,5   | 17,4   | 19,0   | 27,0   | 0,085                           |
| 42410134                                  | 1" x 3/4"       | 26,0                    | 35,5   | 13,6   | 19,0   | 27,0   | 0,070                           |
| 42411C0M                                  | 1 1/4" x 1/2"   | 34,5                    | 43,6   | 20,2   | 20,5   | 30,0   | 0,145                           |
| 42411C34                                  | 1 1/4" x 3/4"   | 34,5                    | 43,6   | 18,2   | 20,5   | 30,0   | 0,135                           |
| 42411C01                                  | 1 1/4" x 1"     | 34,5                    | 43,6   | 16,0   | 20,5   | 30,0   | 0,115                           |
| 42411M0M                                  | 1 1/2" x 1/2"   | 40,0                    | 51,0   | 22,0   | 22,0   | 31,0   | 0,200                           |
| 42411M34                                  | 1 1/2" x 3/4"   | 40,0                    | 51,0   | 20,0   | 22,0   | 31,0   | 0,195                           |
| 42411M01                                  | 1 1/2" x 1"     | 40,0                    | 51,0   | 17,0   | 22,0   | 31,0   | 0,180                           |
| 42411M1C                                  | 1 1/2" x 1 1/4" | 40,0                    | 51,0   | 15,5   | 22,0   | 31,0   | 0,120                           |
| 4241020M                                  | 2" x 1/2"       | 51,0                    | 62,4   | 26,0   | 26,0   | 35,0   | 0,265                           |
| -                                         | 2" x 3/4"       | 51,0                    | 62,4   | 23,0   | 26,0   | 35,0   | 0,330                           |
| 42410201                                  | 2" x 1"         | 51,0                    | 62,4   | 21,0   | 26,0   | 35,0   | 0,330                           |
| 4241021C                                  | 2" x 1 1/4"     | 51,0                    | 62,4   | 20,0   | 26,0   | 35,0   | 0,270                           |
| 4241021M                                  | 2" x 1 1/2"     | 51,0                    | 62,4   | 17,8   | 26,0   | 35,0   | 0,235                           |
| -                                         | 2 1/2" x 1"     | 64,5                    | 77,8   | 27,0   | 27,0   | 40,0   | 0,635                           |
| 42412M1C                                  | 2 1/2" x 1 1/4" | 64,5                    | 77,2   | 25,0   | 27,0   | 40,0   | 0,600                           |
| 42412M1M                                  | 2 1/2" x 1 1/2" | 64,5                    | 77,8   | 25,0   | 27,0   | 40,0   | 0,570                           |
| 42412M02                                  | 2 1/2" x 2"     | 64,5                    | 77,8   | 24,0   | 27,0   | 39,5   | 0,425                           |
| 42410302                                  | 3" x 2"         | 77,2                    | 91,2   | 27,3   | 33,0   | 44,0   | 0,800                           |
| -                                         | 3" x 2 1/2"     | 77,2                    | 91,2   | 20,0   | 33,0   | 44,0   | 0,560                           |
| -                                         | 4" x 2"         | 101,3                   | 116,6  | 27,0   | 36,0   | 48,0   | 0,650                           |
| -                                         | 4" x 2 1/2"     | 101,3                   | 116,6  | 25,0   | 36,0   | 48,0   | 1,415                           |
| -                                         | 4" x 3"         | 101,3                   | 116,6  | 23,3   | 36,0   | 48,0   | 1,205                           |



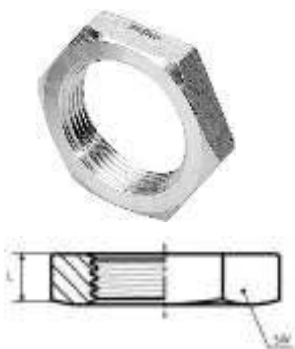
TAPON ROSCADO INOXIDABLE 316 F<sup>3</sup>300  
THREADED STAINLESS STEEL FITTING  
HEXAGONAL CAP



INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     | DN     | DIMENSIONES- DIMENSIONS |        | Peso aprox /<br>Weight approx<br>(KG) |
|----------|--------|-------------------------|--------|---------------------------------------|
|          |        | L (mm)                  | M (mm) |                                       |
| 31630018 | 1/8"   | 15                      | 15,5   | 0,010                                 |
| 3163000C | 1/4"   | 15                      | 15,5   | 0,015                                 |
| 31630038 | 3/8"   | 16                      | 19,0   | 0,020                                 |
| 3163000M | 1/2"   | 20                      | 27,0   | 0,050                                 |
| 31630034 | 3/4"   | 22                      | 31,5   | 0,065                                 |
| 31630001 | 1"     | 26                      | 38,5   | 0,095                                 |
| 3163001C | 1 1/4" | 28                      | 47,5   | 0,160                                 |
| 3163001M | 1 1/2" | 32                      | 53,0   | 0,225                                 |
| 31630002 | 2"     | 34                      | 65,0   | 0,350                                 |
| 3163002M | 2 1/2" | 39                      | 81,5   | 0,560                                 |
| 31630003 | 3"     | 41                      | 95,0   | 0,785                                 |
| 31630004 | 4"     | 43                      | 121,0  | 1,085                                 |

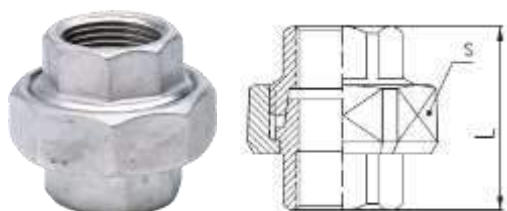
CONTRATUERCA INOXIDABLE 316 F<sup>3</sup>312  
THREADED STAINLESS STEEL FITTING BACK NUT



INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     | DN     | L (mm) | SW (mm) | Peso aprox / Weight<br>approx (KG) |
|----------|--------|--------|---------|------------------------------------|
| 31631218 | 1/8"   | 6,2    | 14,6    | 0,01                               |
| 31631214 | 1/4"   | 7,0    | 23,0    | 0,02                               |
| 31631238 | 3/8"   | 8,0    | 26,0    | 0,03                               |
| 3163120M | 1/2"   | 10,0   | 31,0    | 0,04                               |
| 31631234 | 3/4"   | 11,0   | 37,0    | 0,06                               |
| 31631201 | 1"     | 10,0   | 46,0    | 0,08                               |
| 3163121C | 1 1/4" | 11,0   | 55,0    | 0,11                               |
| 3163121M | 1 1/2" | 12,0   | 63,0    | 0,15                               |

RACOR INOXIDABLE 316 F<sup>3</sup>340 H/H  
THREADED STAINLESS STEEL FITTING - UNION  
CONICAL SEAT F/F



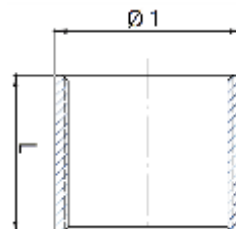
INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION

| REF.     | DN     | DIMENSIONES- DIMENSIONS |        | Peso aprox /<br>Weight approx<br>(KG) |
|----------|--------|-------------------------|--------|---------------------------------------|
|          |        | H (mm)                  | L (mm) |                                       |
| 31634018 | 1/8"   | 30,0                    | 25,0   | 0,055                                 |
| 3163400C | 1/4"   | 33,5                    | 29,0   | 0,065                                 |
| 31634038 | 3/8"   | 36,5                    | 34,0   | 0,090                                 |
| 3163400M | 1/2"   | 39,5                    | 38,0   | 0,115                                 |
| 31634034 | 3/4"   | 42,5                    | 46,0   | 0,205                                 |
| 31634001 | 1"     | 50,0                    | 53,0   | 0,255                                 |
| 3163401C | 1 1/4" | 54,0                    | 66,0   | 0,400                                 |
| 3163401M | 1 1/2" | 58,0                    | 72,0   | 0,525                                 |
| 31634002 | 2"     | 65,0                    | 88,0   | 0,815                                 |
| 3163402M | 2 1/2" | 75,0                    | 108,0  | 1,360                                 |
| 31634003 | 3"     | 83,0                    | 123,5  | 1,540                                 |
| 31634004 | 4"     | 110,0                   | 148,0  | 2,560                                 |

**MANGUITO ROSCADO INOXIDABLE 316 F<sup>a</sup>270**  
STAINLESS STEEL SOCKET

**INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION**

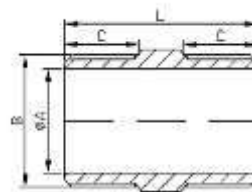
| REF.     | DN     | DIMENSIONES- DIMENSIONS |        | Peso aprox / Weight approx (KG) |
|----------|--------|-------------------------|--------|---------------------------------|
|          |        | Ø1 (mm)                 | L (mm) |                                 |
| 31627018 | 1/8"   | 14,0                    | 17,0   | 0,01                            |
| 3162700C | 1/4"   | 18,0                    | 25,0   | 0,025                           |
| 31627038 | 3/8"   | 21,3                    | 26,0   | 0,03                            |
| 3162700M | 1/2"   | 26,0                    | 34,0   | 0,06                            |
| 31627034 | 3/4"   | 31,5                    | 35,5   | 0,07                            |
| 31627001 | 1"     | 39,0                    | 42,0   | 0,125                           |
| 3162701C | 1 1/4" | 48,0                    | 47,0   | 0,19                            |
| 3162701M | 1 1/2" | 54,0                    | 47,0   | 0,22                            |
| 31627002 | 2"     | 66,0                    | 56,0   | 0,28                            |
| 3162702M | 2 1/2" | 81,0                    | 64,0   | 0,41                            |
| 31627003 | 3"     | 94,0                    | 70,0   | 0,515                           |
| 31627004 | 4"     | 120,0                   | 82,0   | 0,845                           |



**MAMELON ROSCADO INOXIDABLE 316 F<sup>a</sup>280**  
STAINLESS STEEL HEXAGON NIPPLE

**INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION**

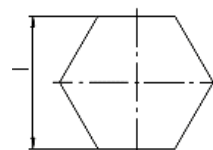
| REF.     | DN     | DIMENSIONES- DIMENSIONS |        |        |        |           | Peso aprox / Weight approx (KG) |
|----------|--------|-------------------------|--------|--------|--------|-----------|---------------------------------|
|          |        | A (mm)                  | C (mm) | D (mm) | L (mm) | Cara Face |                                 |
| 31628018 | 1/8"   | 5,10                    | 12,00  | 13,00  | 30,30  | 6         | 0,015                           |
| 31628034 | 1/4"   | 7,90                    | 13,40  | 15,00  | 32,02  | 6         | 0,020                           |
| 31628038 | 3/8"   | 10,70                   | 14,80  | 19,00  | 36,70  | 6         | 0,035                           |
| 3162800M | 1/2"   | 14,90                   | 16,44  | 22,00  | 41,70  | 6         | 0,050                           |
| 3162800C | 3/4"   | 19,90                   | 18,46  | 27,30  | 44,94  | 6         | 0,075                           |
| 31628001 | 1"     | 26,00                   | 18,60  | 35,30  | 48,10  | 8         | 0,120                           |
| 3162801C | 1 1/4" | 34,50                   | 20,60  | 44,60  | 53,40  | 8         | 0,180                           |
| 3162801M | 1 1/2" | 39,90                   | 21,50  | 50,60  | 55,50  | 8         | 0,220                           |
| 31628002 | 2"     | 51,00                   | 25,60  | 62,50  | 64,20  | 8         | 0,330                           |
| 3162802M | 2 1/2" | 64,50                   | 30,80  | 78,00  | 76,00  | 8         | 0,670                           |
| 31628003 | 3"     | 77,20                   | 33,30  | 91,70  | 79,70  | 8         | 0,860                           |
| 31628004 | 4"     | 101,30                  | 36,00  | 118,00 | 85,70  | 8         | 1,345                           |

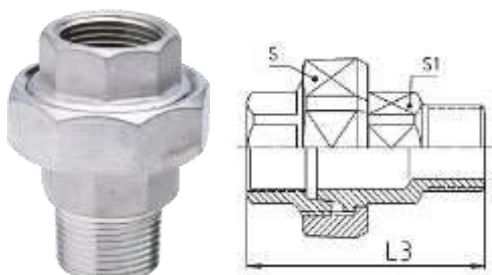


**TAPON ROSCADO INOXIDABLE 316 F<sup>a</sup>290**  
THREADED STAINLESS STEEL FITTING PLUG

**INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION**

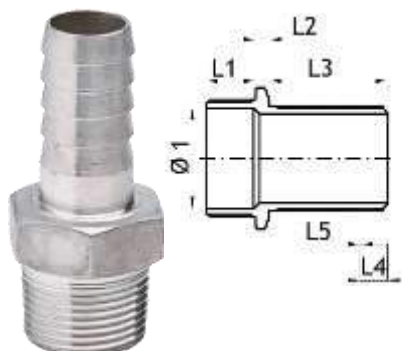
| REF.     | DN     | DIMENSIONES- DIMENSIONS |        | Peso aprox / Weight approx (KG) |
|----------|--------|-------------------------|--------|---------------------------------|
|          |        | H (mm)                  | L (mm) |                                 |
| 31629018 | 1/8"   | 17                      | 12     | 0,010                           |
| 3162900C | 1/4"   | 18                      | 15     | 0,015                           |
| 31629038 | 3/8"   | 20                      | 18     | 0,025                           |
| 3162900M | 1/2"   | 22                      | 23     | 0,035                           |
| 31629034 | 3/4"   | 25                      | 28     | 0,055                           |
| 31629001 | 1"     | 26                      | 35     | 0,085                           |
| 3162901C | 1 1/4" | 30                      | 44     | 0,125                           |
| 3162901M | 1 1/2" | 31                      | 50     | 0,165                           |
| 31629002 | 2"     | 35                      | 62     | 0,265                           |
| 3162902M | 2 1/2" | 38                      | 78     | 0,460                           |
| 31629003 | 3"     | 42                      | 92     | 0,615                           |
| 3162901M | 4"     | 49                      | 116    | 1,090                           |





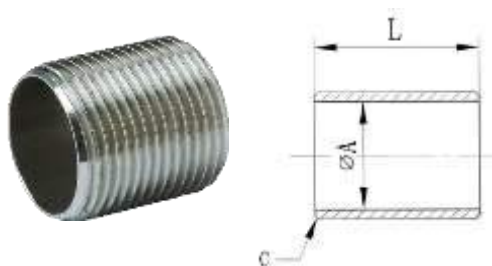
| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |                         |         |        |                                 |
|-------------------------------------------|--------|-------------------------|---------|--------|---------------------------------|
| REF.                                      | DN     | DIMENSIONES- DIMENSIONS |         |        | Peso aprox / Weight approx (KG) |
|                                           |        | S1 (mm)                 | L3 (mm) | S (mm) |                                 |
| -                                         | 1/8"   | 18                      | 38,0    | 25     | 0,060                           |
| 3163410C                                  | 1/4"   | 18                      | 44,0    | 29     | 0,070                           |
| 31634138                                  | 3/8"   | 22                      | 47,5    | 34     | 0,095                           |
| 3163410M                                  | 1/2"   | 26                      | 54,0    | 38     | 0,145                           |
| 3163413C                                  | 3/4"   | 32                      | 59,0    | 46     | 0,230                           |
| 31634101                                  | 1"     | 40                      | 68,0    | 53     | 0,295                           |
| 3163411C                                  | 1 1/4" | 49                      | 70,0    | 66     | 0,510                           |
| 3163411M                                  | 1 1/2" | 56                      | 78,5    | 72     | 0,600                           |
| 31634102                                  | 2"     | 68                      | 90,0    | 88     | 0,995                           |
| 3163412M                                  | 2 1/2" | 84                      | 104,0   | 108    | 1,645                           |
| 31634103                                  | 3"     | 98                      | 113,0   | 92     | 2,065                           |
| 31634104                                  | 4"     | 126                     | 146,0   | 116    | 3,445                           |

ESPIGO INOXIDABLE 316 F<sup>3</sup>99  
STAINLESS STEEL HOSE NIPPLE



| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |                 |                         |        |         |         |         |         |         |                                 |
|-------------------------------------------|-----------------|-------------------------|--------|---------|---------|---------|---------|---------|---------------------------------|
| REF.                                      | DN              | DIMENSIONES- DIMENSIONS |        |         |         |         |         |         | Peso aprox / Weight approx (KG) |
|                                           |                 | Ø1 (mm)                 | D (mm) | L1 (mm) | L2 (mm) | L3 (mm) | L4 (mm) | L5 (mm) |                                 |
| I3991808                                  | 1/8" x 8 mm.    | 5,5                     | 8,0    | 8,0     | 4,0     | 26      | 6,0     | 0,4     | 0,015                           |
| I3990C09                                  | 1/4" x 9 mm.    | 8,0                     | 9,0    | 10,5    | 4,0     | 28      | 6,5     | 0,4     | 0,020                           |
| I3993813                                  | 3/8" x 11 mm.   | 11,5                    | 11,5   | 11,0    | 5,0     | 33      | 7,5     | 0,4     | 0,040                           |
| I3990M15                                  | 1/2" x 15 mm.   | 15,0                    | 15,0   | 14,5    | 5,0     | 38      | 8,5     | 0,4     | 0,045                           |
| I3993420                                  | 3/4" x 20 mm.   | 20,5                    | 20,0   | 15,5    | 5,5     | 45      | 10,5    | 0,4     | 0,075                           |
| I3990130                                  | 1" x 27 mm.     | 26,0                    | 27,0   | 18,0    | 6,0     | 52      | 12,0    | 0,4     | 0,120                           |
| I3991C33                                  | 1 1/4" x 33 mm. | 34,5                    | 33,0   | 20,5    | 6,5     | 52      | 12,0    | 0,4     | 0,170                           |
| I3991M39                                  | 1 1/2" x 40 mm. | 40,0                    | 39,5   | 20,5    | 6,5     | 56      | 13,0    | 0,4     | 0,285                           |
| I3990251                                  | 2" x 53 mm.     | 51,0                    | 52,0   | 25,0    | 7,0     | 60      | 14,0    | 0,4     | 0,435                           |
| I3992M66                                  | 2 1/2" x 66 mm. | 65,5                    | 67,0   | 27,0    | 7,0     | 65      | 14,0    | 0,4     | 0,625                           |
| I3990380                                  | 3" x 80 mm.     | 77,5                    | 80,0   | 30,0    | 7,5     | 70      | 15,0    | 0,4     | 0,915                           |
| I3990410                                  | 4" x 105 mm.    | 102,0                   | 105,0  | 36,0    | 8,0     | 73      | 15,0    | 0,4     | 1,385                           |

ROSCA INTERIOR INOXIDABLE 316 F<sup>3</sup>531  
STAINLESS STEEL INNER CAP



| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |                         |        |        |                                 |
|-------------------------------------------|--------|-------------------------|--------|--------|---------------------------------|
| REF.                                      | DN     | DIMENSIONES- DIMENSIONS |        |        | Peso aprox / Weight approx (KG) |
|                                           |        | A (mm)                  | L (mm) | C (mm) |                                 |
| 3165310C                                  | 1/4"   | 9,24                    | 22     | 0,5    | 0,005                           |
| 31653138                                  | 3/8"   | 12,53                   | 24     | 0,5    | 0,010                           |
| 3165310M                                  | 1/2"   | 16,34                   | 30     | 1,0    | 0,020                           |
| 31653134                                  | 3/4"   | 21,67                   | 34     | 1,0    | 0,030                           |
| 31653101                                  | 1"     | 27,40                   | 40     | 1,0    | 0,050                           |
| 3165311C                                  | 1 1/4" | 36,16                   | 42     | 1,5    | 0,070                           |
| 3165311M                                  | 1 1/2" | 42,26                   | 42     | 1,5    | 0,080                           |
| 31653103                                  | 2"     | 53,33                   | 52     | 1,5    | 0,135                           |



| ACOPLE KAMLOK TIPO A |               |
|----------------------|---------------|
| REF. TIPO            | PULGADAS TIPO |
| K3160A01             | 1/2"          |
| K3160A34             | 3/4"          |
| K3160A01             | 1"            |
| K3160A1C             | 1 1/4"        |
| K3160A1M             | 1 1/2"        |
| K3160A02             | 2"            |
| K3160A2M             | 2 1/2"        |
| K3160A03             | 3"            |
| K3160A04             | 4"            |



TIPO A:  
KAMLOCK MACHO A ROSCA HEMBRA

| ACOPLE KAMLOK TIPO C |               |
|----------------------|---------------|
| REF. TIPO            | PULGADAS TIPO |
| K3160C01             | 1/2"          |
| K3160C34             | 3/4"          |
| K3160C01             | 1"            |
| K3160C1M             | 1 1/2"        |
| K3160C02             | 2"            |
| K3160C2M             | 2 1/2"        |
| K3160C03             | 3"            |
| K3160C04             | 4"            |



TIPO C:  
KAMLOCK HEMBRA PARA MANGUERA

| ACOPLE KAMLOK TIPO E |               |
|----------------------|---------------|
| REF. TIPO            | PULGADAS TIPO |
| K316ME01             | 1/2"          |
| K316ME34             | 3/4"          |
| K316ME01             | 1"            |
| K316ME1M             | 1 1/2"        |
| K316ME02             | 2"            |
| K316ME2M             | 2 1/2"        |
| K316ME03             | 3"            |
| K316ME04             | 4"            |



TIPO E:  
KAMLOCK MACHO PARA MANGUERA

| ACOPLE KAMLOK TIPO B |               |
|----------------------|---------------|
| REF. TIPO            | PULGADAS TIPO |
| K316HB0M             | 1/2"          |
| K316HB01             | 1"            |
| K316HB34             | 3/4"          |
| K316HB1C             | 1 1/4"        |
| K316HB1M             | 1 1/2"        |
| K316HB02             | 2"            |
| K316HB2M             | 2 1/2"        |
| K316HB03             | 3"            |



TIPO B:  
KAMLOCK HEMBRA A ROSCA MACHO

| ACOPLE KAMLOK TIPO D |               |
|----------------------|---------------|
| REF. TIPO            | PULGADAS TIPO |
| K316HD01             | 1/2"          |
| K316HD34             | 3/4"          |
| K316HD01             | 1"            |
| K316HD1C             | 1 1/4"        |
| K316HD1M             | 1 1/2"        |
| K316HD02             | 2"            |
| K316HD2M             | 2 1/2"        |
| K316HD03             | 3"            |
| K316HD04             | 4"            |



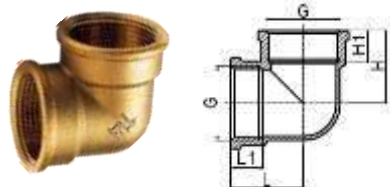
TIPO D:  
KAMLOCK HEMBRA A ROSCA HEMBRA

| ACOPLE KAMLOK TIPO F |               |
|----------------------|---------------|
| REF. TIPO            | PULGADAS TIPO |
| K3160F01             | 1/2"          |
| K3160F34             | 3/4"          |
| K3160F01             | 1"            |
| K3160F1M             | 1 1/2"        |
| K3160F02             | 2"            |
| K3160F2M             | 2 1/2"        |
| K3160F03             | 3"            |
| K3160F04             | 4"            |

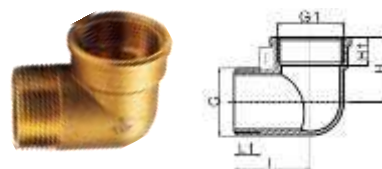


TIPO F:  
KAMLOCK MACHO A ROSCA MACHO

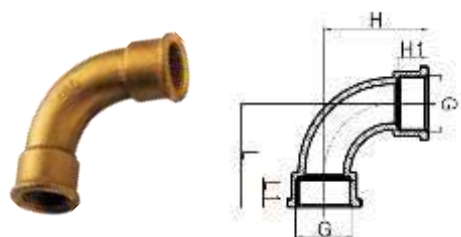
**NOTA:** TAMBIÉN SE FABRICAN EN BRONCE/LATÓN Y ALUMINIO.

F<sup>a</sup>90 HH

| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |                        |
|-------------------------------------------|--------|------------------------|
| REF. F <sup>a</sup> 90                    | DN     | REF. F <sup>a</sup> 92 |
| LAT09018                                  | 1/8"   | LAT09218               |
| LAT0900C                                  | 1/4"   | LAT09214               |
| LAT09038                                  | 3/8"   | LAT09238               |
| LAT0900M                                  | 1/2"   | LAT0920M               |
| LAT09034                                  | 3/4"   | LAT09234               |
| LAT09001                                  | 1"     | LAT09201               |
| LAT0901C                                  | 1 1/4" | LAT0921C               |
| LAT0901M                                  | 1 1/2" | LAT0921M               |
| LAT09002                                  | 2"     | LAT09202               |
| LAT0902M                                  | 2 1/2" | LAT0922M               |
| LAT09003                                  | 3"     | LAT09203               |
| LAT09004                                  | 4"     | LAT09204               |

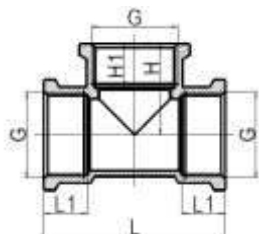
F<sup>a</sup>92 MH

CURVA LATON F<sup>a</sup>2 H/H  
BRASS LONG SWEEP BEND F<sup>a</sup>2 F/F

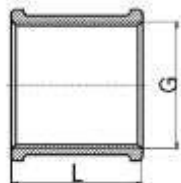


| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |
|-------------------------------------------|--------|
| REF. F <sup>a</sup> 2                     | DN     |
| LAT0020M                                  | 1/2"   |
| LAT00234                                  | 3/4"   |
| LAT00201                                  | 1"     |
| LAT0021C                                  | 1 1/4" |
| LAT0021M                                  | 1 1/2" |
| LAT00202                                  | 2"     |

TE 90° LATON F<sup>a</sup>130  
BRASS TE 90° F<sup>a</sup>130

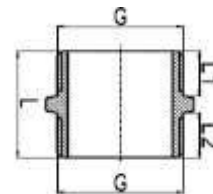


| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |
|-------------------------------------------|--------|
| REF. F <sup>a</sup> 130                   | DN     |
| LAT13018                                  | 1/8"   |
| LAT1300C                                  | 1/4"   |
| LAT13038                                  | 3/8"   |
| LAT1300M                                  | 1/2"   |
| LAT13034                                  | 3/4"   |
| LAT13001                                  | 1"     |
| LAT1301C                                  | 1 1/4" |
| LAT1301M                                  | 1 1/2" |
| LAT13002                                  | 2"     |
| LAT1302M                                  | 2 1/2" |
| LAT13003                                  | 3"     |
| LAT13004                                  | 4"     |



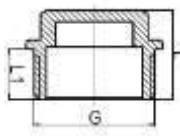
Fª270 HH

| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |            |
|-------------------------------------------|--------|------------|
| REF. Fª270                                | DN     | REF. Fª280 |
| LAT27018                                  | 1/8"   | LAT28018   |
| LAT2700C                                  | 1/4"   | LAT2800C   |
| LAT27038                                  | 3/8"   | LAT28038   |
| LAT2700M                                  | 1/2"   | LAT2800M   |
| LAT27034                                  | 3/4"   | LAT28034   |
| LAT27001                                  | 1"     | LAT28001   |
| LAT2701C                                  | 1 1/4" | LAT2801C   |
| LAT2701M                                  | 1 1/2" | LAT2801M   |
| LAT27002                                  | 2"     | LAT28002   |
| LAT2702M                                  | 2 1/2" | LAT2802M   |
| LAT27003                                  | 3"     | LAT28003   |
| LAT27004                                  | 4"     | LAT28004   |



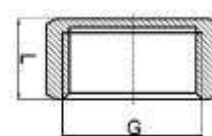
Fª280 MM

TAPON LATÓN Fª290 / TAPON LATÓN Fª300  
BRASS PLUG BEADED Fª290 / BRASS HEXAGON CAP Fª300



Fª290

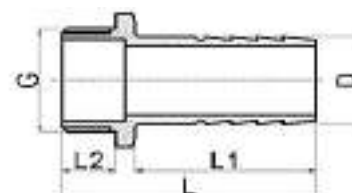
| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |            |
|-------------------------------------------|--------|------------|
| REF. Fª290                                | DN     | REF. Fª300 |
| LAT29018                                  | 1/8"   | LAT30018   |
| LAT29014                                  | 1/4"   | LAT30014   |
| LAT29038                                  | 3/8"   | LAT30038   |
| LAT2900M                                  | 1/2"   | LAT3000M   |
| LAT29034                                  | 3/4"   | LAT30034   |
| LAT29001                                  | 1"     | LAT30001   |
| LAT2901C                                  | 1 1/4" | LAT3001C   |
| LAT2901M                                  | 1 1/2" | LAT3001M   |
| LAT29002                                  | 2"     | LAT30002   |
| LAT2902M                                  | 2 1/2" | LAT3002M   |

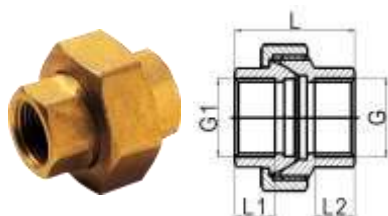


Fª300

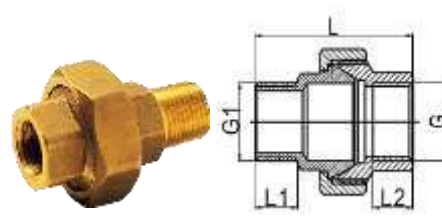
ESPIGO LATON Fª399 MANGUERA  
BRASS HEXAGON HOSE NIPPLE Fª399

| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |          |
|-------------------------------------------|----------|
| REF. Fª399                                | DN       |
| 3/8" x 12mm                               | L3993812 |
| 1/2" x 14mm                               | L3990M14 |
| 1/2" x 20mm                               | L3990M20 |
| 3/4" x 20mm                               | L3993420 |
| 3/4" x 25mm                               | L3993425 |
| 1" x 20mm                                 | L3990120 |
| 1" x 25mm                                 | L3990125 |
| 1" x 30mm                                 | L3990130 |
| 1 1/4" x 35mm                             | L3991C35 |
| 1 1/2" x 45mm                             | L3991M45 |
| 2" x 60mm                                 | L3990260 |

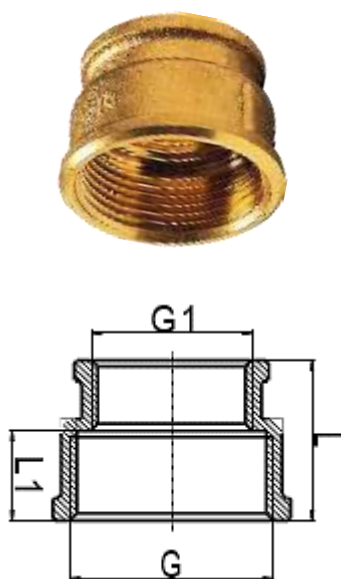


F<sup>a</sup>340 HH

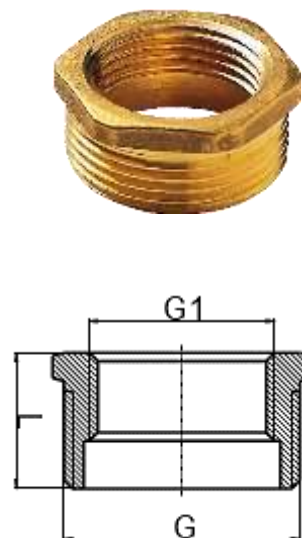
| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |        |                         |
|-------------------------------------------|--------|-------------------------|
| REF. F <sup>a</sup> 340                   | DN     | REF. F <sup>a</sup> 341 |
| LAT3400M                                  | 1/2"   | LAT3410M                |
| LAT34034                                  | 3/4"   | LAT34134                |
| LAT34001                                  | 1"     | LAT34101                |
| LAT3401C                                  | 1 1/4" | LAT3411C                |
| LAT3401M                                  | 1 1/2" | LAT3411M                |
| LAT34002                                  | 2"     | LAT34102                |
| LAT3402M                                  | 2 1/2" | LAT3412M                |
| LAT34003                                  | 3"     | LAT34103                |

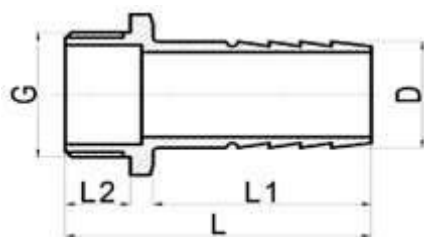
F<sup>a</sup>341 MH

MANGUITO REDUCIDO / TUERCA REDUCCION  
LATON F<sup>a</sup>240 HH / LATON F<sup>a</sup>241 MH  
BRASS REDUCING F<sup>a</sup>240 / BRASS BUSHINGS F<sup>a</sup>241  
SOCKET F/F

F<sup>a</sup>240 HH

| INFORMACIÓN TÉCNICA-TECHNICAL INFORMATION |                 |                         |
|-------------------------------------------|-----------------|-------------------------|
| REF. F <sup>a</sup> 240                   | DN              | REF. F <sup>a</sup> 241 |
| L2400C08                                  | 1/4" x 1/8"     | L2410C08                |
| L2403808                                  | 3/8" x 1/8"     | L2413808                |
| L240380C                                  | 3/8" x 1/4"     | L241380C                |
| L2400M0C                                  | 1/2" x 1/4"     | L2410M0C                |
| L2400M38                                  | 1/2" x 3/8"     | L2410M38                |
| L2403438                                  | 3/4" x 3/8"     | L2413438                |
| L240340M                                  | 3/4" x 1/2"     | L241340M                |
| L240010M                                  | 1" x 1/2"       | L241010M                |
| L2400134                                  | 1" x 3/4"       | L2410134                |
| L2401C0M                                  | 1 1/4" x 1/2"   | L2411C0M                |
| L2401C34                                  | 1 1/4" x 3/4"   | L2411C34                |
| L2401C01                                  | 1 1/4" x 1"     | L2411C01                |
| L2401M0M                                  | 1 1/2" x 1/2"   | L2411M0M                |
| L2401M34                                  | 1 1/2" x 3/4"   | L2411M34                |
| L2401M01                                  | 1 1/2" x 1"     | L2411M01                |
| L2401M1C                                  | 1 1/2" x 1 1/4" | L2411C1M                |
| L240020M                                  | 2" x 1/2"       | L241020M                |
| L2400234                                  | 2" x 3/4"       | L2410234                |
| L2400201                                  | 2" x 1"         | L2410201                |
| L2401C02                                  | 2" x 1 1/4"     | L2411C02                |
| L240021M                                  | 2" x 1 1/2"     | L241021M                |
| L2402M1C                                  | 2 1/2" x 1 1/4" | L2412M1C                |
| L2402M1M                                  | 2 1/2" x 1 1/2" | L2412M1M                |
| L2402M02                                  | 2 1/2" x 2"     | L2412M02                |
| L2400302                                  | 3" x 2"         | L2410302                |
| L240030M                                  | 3" x 2 1/2"     | L241030M                |
| L2400402                                  | 4" x 2"         | L2410402                |
| L240042M                                  | 4" x 2 1/2"     | L241042M                |
| L2400403                                  | 4" x 3"         | L2410403                |

F<sup>a</sup>241 MH



### INFORMACIÓN TÉCNICA - TECHNICAL INFORMATION

| REF      | DN            | DIMENSIONES - DIMENSIONS |         |         |        |            |
|----------|---------------|--------------------------|---------|---------|--------|------------|
|          |               | L (mm)                   | L1 (mm) | L2 (mm) | D (mm) | G (inches) |
| L3993812 | 3/8" x 12mm   | 41,0                     | 28,5    | 8,5     | 12     | 3/8"       |
| L3990M14 | 1/2" x 14mm   | 47,0                     | 32,0    | 10,5    | 14     | 1/2"       |
| L3990M20 | 1/2" x 20mm   | 53,5                     | 38,5    | 10,5    | 20     | 1/2"       |
| L3993420 | 3/4" x 20mm   | 54,0                     | 38,5    | 11,5    | 20     | 3/4"       |
| L3993425 | 3/4" x 25mm   | 55,5                     | 39,0    | 11,5    | 25     | 3/4"       |
| L3990120 | 1" x 20mm     | 55,5                     | 38,5    | 12,0    | 20     | 1"         |
| L3990125 | 1" x 25mm     | 56,0                     | 39,0    | 12,0    | 25     | 1"         |
| L3990130 | 1" x 30mm     | 56,0                     | 39,0    | 12,0    | 30     | 1"         |
| L3991C35 | 1 1/4" x 35mm | 66,0                     | 43,5    | 16,0    | 35     | 1 1/4"     |
| L3991C40 | 1 1/4" x 40mm | 69,5                     | 47,0    | 16,0    | 40     | 1 1/4"     |
| L3991M45 | 1 1/2" x 45mm | 76,0                     | 50,5    | 19,5    | 45     | 1 1/2"     |
| L3991M40 | 1 1/2" x 40mm | 77,0                     | 42,0    | 17      | 40     | 1 1/2"     |
| L3991M50 | 1 1/2" x 50mm | 77,0                     | 48,0    | 17      | 50     | 1 1/2"     |
| L3990250 | 2" x 50mm     | 84,0                     | 53,0    | 24,0    | 50     | 2"         |
| L3990260 | 2" x 60mm     | 90,0                     | 59,0    | 24,0    | 60     | 2"         |

#### CARACTERÍSTICAS BÁSICAS:

Cuerpo en latón CW617N-DW según UNE-EN 12165.  
Método de fabricación: Forja en caliente.  
Rosca de unión según UNE-EN ISO 228-1.  
Accesorios conforme a la norma UNE-EN 1254-4.  
Rango de temperatura de trabajo: -20 a 130 °C.  
Presión máxima de ejercicio: PN 25

#### APLICACIONES GENERALES:

-Agua sanitaria fría y caliente

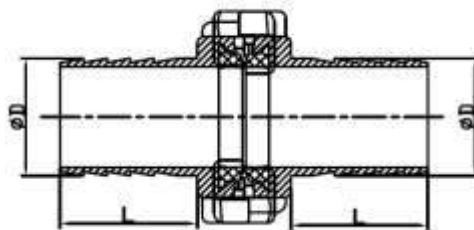
#### BÁSIC FEATURES

Body in brass CW617N-DW according to EN 12165.  
Production method: Hot forging.  
Threads according to EN ISO 228-1.  
Fittings comply with EN 1254-4 standard.  
Working temperature range: -20 to 130 °C.  
Maximal working pressure: PN 25.

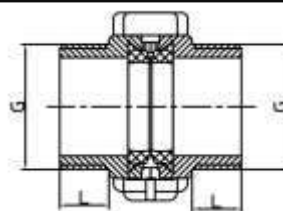
#### GENERAL APPLICATIONS:

-Cold and hot sanitary water.



**INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION**

| DN          | REF.     | DIMENSIONES-DIMENSIONS |        | Peso aprox.<br>Weight aprox |
|-------------|----------|------------------------|--------|-----------------------------|
|             |          | L (mm)                 | D (mm) |                             |
| 1" x 25     | BAR01M25 | 30,5                   | 25     | 179                         |
| 1 1/2" x 45 | BAR1ES45 | 59,5                   | 45     | 817                         |

**RACOR BARCELONA LATÓN ROSCA MACHO**  
**BRASS HOSE CONNECTOR**
**INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION**

| DN          | REF.     | DIMENSIONES-DIMENSIONS |        | Peso aprox.<br>Weight aprox |
|-------------|----------|------------------------|--------|-----------------------------|
|             |          | L (mm)                 | D (mm) |                             |
| 1" x 25     | BAR01025 | 14,5                   | 1"     | 200                         |
| 1 1/2" x 45 | BAR11m45 | 18,0                   | 1 1/2" | 579                         |

**CARACTERÍSTICAS BÁSICAS:**

- Cuerpo en Latón MS58
- Junta en Nbr
- Método de fabricación: Forja en caliente

**APLICACIONES GENERALES:**

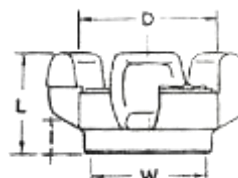
- Agua sanitaria fría y caliente

**BÁSIC FEATURES**

- Body un brass MS58
- Washer ring in Nbr
- Production method: Hot forging

**GENERAL APPLICATIONS:**

- Cold and hot sanitary wáter.

**RACOR BARCELONA LATÓN ROSCA HEMBRA**  
**BRASS HOSE CONNECTOR**
**INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION**

| DN          | REF.     | DIMENSIONES-DIMENSIONS |        |        |
|-------------|----------|------------------------|--------|--------|
|             |          | L (mm)                 | I (mm) | D (mm) |
| 1" x 25     | BAR01H25 | 35                     | 14     | 42     |
| 1 1/2" x 45 | BAR11H45 | 43                     | 15     | 62     |

FIG. 01 OVALILLO ACERO  
CUTTING RING FITTING

VALVULERIA Y FERRETERIA NAVAL

**S**UMINISTROS **B**ENI SL

| Ref.     | D1 | SERIE  | PN     |
|----------|----|--------|--------|
| ACERO    |    |        |        |
| A000006L | 6  | Ligera | PN 250 |
| A000008L | 8  | Ligera | PN 250 |
| A000010L | 10 | Ligera | PN 250 |
| A000012L | 12 | Ligera | PN 250 |
| A000015L | 15 | Ligera | PN 250 |
| A000018L | 18 | Ligera | PN 160 |
| A000022L | 22 | Ligera | PN 160 |
| A000028L | 28 | Ligera | PN 100 |
| A000035L | 35 | Ligera | PN 100 |
| A000042L | 42 | Ligera | PN 100 |
| A000014S | 14 | Pesada | PN 630 |
| A000016S | 16 | Pesada | PN 400 |
| A000020S | 20 | Pesada | PN 400 |
| A000025S | 25 | Pesada | PN 400 |
| A000030S | 30 | Pesada | PN 250 |

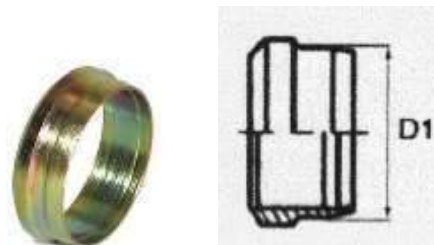
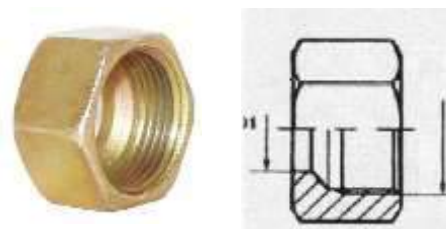


FIG. 02 TUERCA DE APRIETE  
CLAMPING NUT FITTING

| Ref.     | D1 | R1       | SERIE  | PN     |
|----------|----|----------|--------|--------|
| ACERO    |    |          |        |        |
| APR0006L | 6  | M 12x1,5 | Ligera | PN 250 |
| APR0008L | 8  | M 14x1,5 | Ligera | PN 250 |
| APR0010L | 10 | M 16x1,5 | Ligera | PN 250 |
| APR0012L | 12 | M 18x1,5 | Ligera | PN 250 |
| APR0015L | 15 | M 22x1,5 | Ligera | PN 250 |
| APR0018L | 18 | M 26x1,5 | Ligera | PN 160 |
| APR0022L | 22 | M 30x2   | Ligera | PN 160 |
| APR0028L | 28 | M 36x2   | Ligera | PN 100 |
| APR0035L | 35 | M 45x2   | Ligera | PN 100 |
| APR0042L | 42 | M 52x2   | Ligera | PN 100 |
| APR0006S | 6  | M 14x1,5 | Pesada | PN 630 |
| APR0008S | 8  | M 16x1,5 | Pesada | PN 630 |
| APR0010S | 10 | M 18x1,5 | Pesada | PN 630 |
| APR0012S | 12 | M 20x1,5 | Pesada | PN 630 |
| APR0014S | 14 | M 22x1,5 | Pesada | PN 630 |
| APR0016S | 16 | M 24x1,5 | Pesada | PN 400 |
| APR0020S | 20 | M 30x2   | Pesada | PN 400 |
| APR0025S | 25 | M 36x2   | Pesada | PN 400 |
| APR0030S | 30 | M 42x2   | Pesada | PN 250 |
| APR0038S | 38 | M 52x2   | Pesada | PN 250 |



**FIG. 04 UNION DOBLE ACERO**  
**STEEL UNION DOUBLE**


| Ref.     | D1 | D2 | R1       | R2       | SERIE  | PN     |
|----------|----|----|----------|----------|--------|--------|
| ACERO    |    |    |          |          |        |        |
| A1000L6  | 6  | 6  | M 12x1,5 | M 12x1,5 | Ligera | PN 315 |
| A1000L8  | 8  | 8  | M 14x1,5 | M 14x1,5 | Ligera | PN 315 |
| A1000L10 | 10 | 10 | M 16x1,5 | M 16x1,5 | Ligera | PN 315 |
| A1000L12 | 12 | 12 | M 18x1,5 | M 18x1,5 | Ligera | PN 315 |
| A1000L15 | 15 | 15 | M 22x1,5 | M 22x1,5 | Ligera | PN 315 |
| A1000L18 | 18 | 18 | M 26x1,5 | M 26x1,5 | Ligera | PN 315 |
| A1000L22 | 22 | 22 | M 30x2   | M 30x2   | Ligera | PN 160 |
| A1000L28 | 28 | 28 | M 36x2   | M 36x2   | Ligera | PN 160 |
| A1000L35 | 35 | 35 | M 45x2   | M 45x2   | Ligera | PN 160 |
| A1000L42 | 42 | 42 | M 52x2   | M 52x2   | Ligera | PN 160 |
| A1000S06 | 6  | 6  | M 14x1,5 | M 14x1,5 | Pesada | PN 630 |
| A1000S08 | 8  | 8  | M 16x1,5 | M 16x1,5 | Pesada | PN 630 |
| A1000S10 | 10 | 10 | M 18x1,5 | M 18x1,5 | Pesada | PN 630 |
| A1000S12 | 12 | 12 | M 20x1,5 | M 20x1,5 | Pesada | PN 630 |
| A1000S14 | 14 | 14 | M 22x1,5 | M 22x1,5 | Pesada | PN 630 |
| A1000S16 | 16 | 16 | M 24x1,5 | M 24x1,5 | Pesada | PN 400 |
| A1000S20 | 20 | 20 | M 30x2   | M 30x2   | Pesada | PN 400 |
| A1000S25 | 25 | 25 | M 36x2   | M 36x2   | Pesada | PN 400 |
| A1000S30 | 30 | 30 | M 42x2   | M 42x2   | Pesada | PN 400 |
| A1000S38 | 38 | 38 | M 52x2   | M 52x2   | Pesada | PN 315 |

**FIG. 06 UNION CODO ACERO IGUAL**  
**STEEL ELBOW UNION EQUAL**


| Ref.     | D1 | D2 | R1       | R2       | SERIE  | PN     |
|----------|----|----|----------|----------|--------|--------|
| ACERO    |    |    |          |          |        |        |
| A5000L06 | 6  | 6  | M 12x1,5 | M 12x1,5 | Ligera | PN 315 |
| A5000L08 | 8  | 8  | M 14x1,5 | M 14x1,5 | Ligera | PN 315 |
| A5000L10 | 10 | 10 | M 16x1,5 | M 16x1,5 | Ligera | PN 315 |
| A5000L12 | 12 | 12 | M 18x1,5 | M 18x1,5 | Ligera | PN 315 |
| A5000L15 | 15 | 15 | M 22x1,5 | M 22x1,5 | Ligera | PN 315 |
| A5000L18 | 18 | 18 | M 26x1,5 | M 26x1,5 | Ligera | PN 315 |
| A5000L22 | 22 | 22 | M 30x2   | M 30x2   | Ligera | PN 160 |
| A5000L28 | 28 | 28 | M 36x2   | M 36x2   | Ligera | PN 160 |
| A5000L35 | 35 | 35 | M 45x2   | M 45x2   | Ligera | PN 160 |
| A5000L42 | 42 | 42 | M 52x2   | M 52x2   | Ligera | PN 160 |
| A5000S06 | 6  | 6  | M 14x1,5 | M 14x1,5 | Pesada | PN 630 |
| A5000S08 | 8  | 8  | M 16x1,5 | M 16x1,5 | Pesada | PN 630 |
| A5000S10 | 10 | 10 | M 18x1,5 | M 18x1,5 | Pesada | PN 630 |
| A5000S12 | 12 | 12 | M 20x1,5 | M 20x1,5 | Pesada | PN 630 |
| A5000S14 | 14 | 14 | M 22x1,5 | M 22x1,5 | Pesada | PN 630 |
| A5000S16 | 16 | 16 | M 24x1,5 | M 24x1,5 | Pesada | PN 400 |
| A5000S20 | 20 | 20 | M 30x2   | M 30x2   | Pesada | PN 400 |
| A5000S25 | 25 | 25 | M 36x2   | M 36x2   | Pesada | PN 400 |
| A5000S30 | 30 | 30 | M 42x2   | M 42x2   | Pesada | PN 400 |
| A5000S38 | 38 | 38 | M 52x2   | M 52x2   | Pesada | PN 315 |

**FIG. 07 TE IGUAL ACERO**  
**STEEL TE UNION EQUAL**


| Ref.     | D1=D2=D3 | R1=R2=R3 | SERIE  | PN     |
|----------|----------|----------|--------|--------|
| ACERO    |          |          |        |        |
| A6000L06 | 6        | M 12x1,5 | Ligera | PN 315 |
| A6000L08 | 8        | M 14x1,5 | Ligera | PN 315 |
| A6000L10 | 10       | M 16x1,5 | Ligera | PN 315 |
| A6000L12 | 12       | M 18x1,5 | Ligera | PN 315 |
| A6000L15 | 15       | M 22x1,5 | Ligera | PN 315 |
| A6000L18 | 18       | M 26x1,5 | Ligera | PN 315 |
| A6000L22 | 22       | M 30x2   | Ligera | PN 160 |
| A6000L28 | 28       | M 36x2   | Ligera | PN 160 |
| A6000L35 | 35       | M 45x2   | Ligera | PN 160 |
| A6000L42 | 42       | M 52x2   | Ligera | PN 160 |
| A6000S06 | 6        | M 14x1,5 | Pesada | PN 630 |
| A6000S08 | 8        | M 16x1,5 | Pesada | PN 630 |
| A6000S10 | 10       | M 18x1,5 | Pesada | PN 630 |
| A6000S12 | 12       | M 20x1,5 | Pesada | PN 630 |
| A6000S14 | 14       | M 22x1,5 | Pesada | PN 630 |
| A6000S16 | 16       | M 24x1,5 | Pesada | PN 400 |
| A6000S20 | 20       | M 30x2   | Pesada | PN 400 |
| A6000S25 | 25       | M 36x2   | Pesada | PN 400 |
| A6000S30 | 30       | M 42x2   | Pesada | PN 400 |
| A6000S38 | 38       | M 52x2   | Pesada | PN 315 |

FIG.18 UNION CODO SIMPLE ACERO  
SIMPLE STEEL UNION ELBOW

| Ref.     | D1 | R1   | R2       | SERIE  | PN     |
|----------|----|------|----------|--------|--------|
| ACERO    |    |      |          |        |        |
| AC900618 | 6  | 1/8" | M 12x1,5 | Ligera | PN 315 |
| AC90081C | 8  | 1/4" | M 14x1,5 | Ligera | PN 315 |
| AC900838 | 8  | 3/8" | M 14x1,5 | Ligera | PN 315 |
| AC90101C | 10 | 1/4" | M 16x1,5 | Ligera | PN 315 |
| AC901038 | 10 | 3/8" | M 16x1,5 | Ligera | PN 315 |
| AC90100M | 10 | 1/2" | M 16x1,5 | Ligera | PN 315 |
| AC901218 | 12 | 1/8" | M 18x1,5 | Ligera | PN 315 |
| AC901238 | 12 | 3/8" | M 18x1,5 | Ligera | PN 315 |
| AC90120M | 12 | 1/2" | M 18x1,5 | Ligera | PN 315 |
| AC901538 | 15 | 3/8" | M 22x1,5 | Ligera | PN 315 |
| AC90150M | 15 | 1/2" | M 22x1,5 | Ligera | PN 315 |
| AC901803 | 18 | 3    | M 26x1,5 | Ligera | PN 315 |
| AC90180M | 18 | 1/2" | M 26x1,5 | Ligera | PN 315 |
| AC90220M | 22 | 1/2" | M 30x2   | Ligera | PN 160 |
| AC0S1018 | 6  | 1/8" | M 14x1,5 | Pesada | PN 630 |
| AC0S1038 | 10 | 3/8" | M 16x1,5 | Pesada | PN 630 |
| AC0S1238 | 12 | 3/8" | M 20x1,5 | Pesada | PN 630 |
| AC0S1438 | 14 | 3/8" | M 22x1,5 | Pesada | PN 630 |
| AC0S140M | 14 | 1/2" | M 22x1,5 | Pesada | PN 630 |
| AC0S1634 | 16 | 3/8" | M 24x1,5 | Pesada | PN 400 |
| AC0S160M | 16 | 1/2" | M 24x1,5 | Pesada | PN 400 |
| AC0S200M | 20 | 1/2" | M 30x2   | Pesada | PN 400 |
| AC0S2034 | 20 | 3/4" | M 30x2   | Pesada | PN 400 |



FIG.52 UNION DOBLE PASATABIQUES  
WELDABLE BULKHEAD COUPLINGS

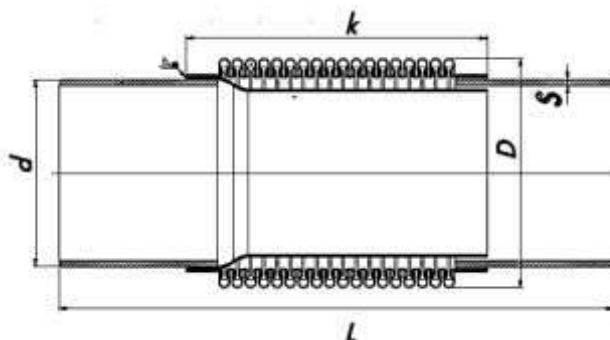
| Ref.     | D1=D2 | R1=R2    | SERIE  | PN     |
|----------|-------|----------|--------|--------|
| ACERO    |       |          |        |        |
| I1PTL006 | 6     | M 12x1,5 | Ligera | PN 315 |
| I1PTL008 | 8     | M 14x1,5 | Ligera | PN 315 |
| I1PTL010 | 10    | M 16x1,5 | Ligera | PN 315 |
| I1PTL012 | 12    | M 18x1,5 | Ligera | PN 315 |
| I1PTL015 | 15    | M 22x1,5 | Ligera | PN 315 |
| I1PTL018 | 18    | M 26x1,5 | Ligera | PN 315 |
| I1PTL022 | 22    | M 30x2   | Ligera | PN 160 |
| I1PTL028 | 28    | M 36x2   | Ligera | PN 160 |
| I1PTL035 | 35    | M 45x2   | Ligera | PN 160 |
| I1PTL042 | 42    | M 52x2   | Ligera | PN 160 |
| A1PTBS06 | 6     | M 14x1,5 | Pesada | PN 630 |
| A1PTBS08 | 8     | M 16x1,5 | Pesada | PN 630 |
| A1PTBS10 | 10    | M 18x1,5 | Pesada | PN 630 |
| A1PTBS12 | 12    | M 20x1,5 | Pesada | PN 630 |
| A1PTBS14 | 14    | M 22x1,5 | Pesada | PN 630 |
| A1PTBS16 | 16    | M 24x1,5 | Pesada | PN 400 |
| A1PTBS20 | 20    | M 30x2   | Pesada | PN 400 |
| A1PTBS25 | 25    | M 36x2   | Pesada | PN 400 |
| A1PTBS30 | 30    | M 42x2   | Pesada | PN 400 |
| A1PTBS38 | 38    | M 52x2   | Pesada | PN 315 |





| Ref.     | D1 | R2     | R1       | SERIE  | PN     |
|----------|----|--------|----------|--------|--------|
| ACERO    |    |        |          |        |        |
| A2301806 | 6  | 1/8"   | M 12x1,5 | Ligera | PN 315 |
| A230C0L6 | 6  | 1/4"   | M 12x1,5 | Ligera | PN 315 |
| A2338L06 | 6  | 3/8"   | M 12x1,5 | Ligera | PN 315 |
| A2308LL8 | 8  | 1/8"   | M 14x1,5 | Ligera | PN 315 |
| A230C0L8 | 8  | 1/4"   | M 14x1,5 | Ligera | PN 315 |
| A2338L08 | 8  | 3/8"   | M 14x1,5 | Ligera | PN 315 |
| A230M0L8 | 8  | 1/2"   | M 14x1,5 | Ligera | PN 315 |
| A2300C10 | 10 | 1/4"   | M 16x1,5 | Ligera | PN 315 |
| A2338L10 | 10 | 3/8"   | M 16x1,5 | Ligera | PN 315 |
| A230ML10 | 10 | 1/2"   | M 16x1,5 | Ligera | PN 315 |
| A230CL12 | 12 | 1/4"   | M 18x1,5 | Ligera | PN 315 |
| A2338L12 | 12 | 3/8"   | M 18x1,5 | Ligera | PN 315 |
| A230ML12 | 12 | 1/2"   | M 18x1,5 | Ligera | PN 315 |
| A2338L15 | 15 | 3/8"   | M 22x1,5 | Ligera | PN 315 |
| A230ML15 | 15 | 1/2"   | M 22x1,5 | Ligera | PN 315 |
| A2334L15 | 15 | 3/4"   | M 22x1,5 | Ligera | PN 315 |
| A2338L18 | 18 | 3/8"   | M 26x1,5 | Ligera | PN 315 |
| A230ML18 | 18 | 1/2"   | M 26x1,5 | Ligera | PN 315 |
| A2334L18 | 18 | 3/4"   | M 26x1,5 | Ligera | PN 315 |
| A230ML22 | 22 | 1/2"   | M 30x2   | Ligera | PN 160 |
| A2334L22 | 22 | 3/4"   | M 30x2   | Ligera | PN 160 |
| A2301L22 | 22 | 1"     | M 30x2   | Ligera | PN 160 |
| A2334L28 | 28 | 3/4"   | M 36x2   | Ligera | PN 160 |
| A2301L28 | 28 | 1"     | M 36x2   | Ligera | PN 160 |
| A2310135 | 35 | 1"     | M 45x2   | Ligera | PN 160 |
| A231CL35 | 35 | 1 1/4" | M 45x2   | Ligera | PN 160 |
| A230421C | 42 | 1 1/4" | M 52x2   | Ligera | PN 160 |
| A230421M | 42 | 1 1/2" | M 52x2   | Ligera | PN 160 |
| A230C0S6 | 6  | 1/4"   | M 14x1,5 | Pesada | PN 630 |
| A230C0S8 | 8  | 1/4"   | M 16x1,5 | Pesada | PN 630 |
| A2338S08 | 8  | 3/8"   | M 16x1,5 | Pesada | PN 630 |
| A2338S10 | 10 | 3/8"   | M 18x1,5 | Pesada | PN 630 |
| A230MS10 | 10 | 1/2"   | M 18x1,5 | Pesada | PN 630 |
| A2338S12 | 12 | 3/8"   | M 20x1,5 | Pesada | PN 630 |
| A230MS12 | 12 | 1/2"   | M 20x1,5 | Pesada | PN 630 |
| A2338S14 | 14 | 3/8"   | M 22x1,5 | Pesada | PN 630 |
| A230MS14 | 14 | 1/2"   | M 22x1,5 | Pesada | PN 630 |
| A2338S16 | 16 | 3/8"   | M 24x1,5 | Pesada | PN 400 |
| A230MS16 | 16 | 1/2"   | M 24x1,5 | Pesada | PN 400 |
| A2334L16 | 16 | 3/4"   | M 24x1,5 | Pesada | PN 400 |
| A230MS20 | 20 | 1/2"   | M 30x2   | Pesada | PN 400 |
| A2334S20 | 20 | 3/4"   | M 30x2   | Pesada | PN 400 |
| A2334S25 | 25 | 3/4"   | M 36x2   | Pesada | PN 400 |
| A230125S | 25 | 1"     | M 36x2   | Pesada | PN 400 |
| A2301S30 | 30 | 1"     | M 42x2   | Pesada | PN 250 |
| A231CS30 | 30 | 1 1/4" | M 42x2   | Pesada | PN 250 |
| A2301S38 | 38 | 1"     | M 52x2   | Pesada | PN 250 |
| A231CS38 | 38 | 1 1/4" | M 52x2   | Pesada | PN 250 |
| A231MS38 | 38 | 1 1/2" | M 52x2   | Pesada | PN 250 |





DESCRIPCIÓN COMPONENTES- COMPONENTS DESCRIPTION

| Ítem | Descripción- Description | Material- Material                                   |
|------|--------------------------|------------------------------------------------------|
| 1    | Camisa Interior – Liner  | Acero Inoxidable AISI 321 – AISI 321 STAINLESS STEEL |
| 2    | Muelle - Spring          | Acero Inoxidable AISI 321 – AISI 321 STAINLESS STEEL |
| 3    | Cuerpo- Body             | Acero al Carbono ST 37-2 – ST 37-2 CARBON STEEL      |

CARACTERÍSTICAS TÉCNICAS

- Presión de trabajo: PN 16.
- Temperatura de trabajo: -80 °C a + 427 °C.
- Ratio Presión / Temperatura según DIN 2401.
- Certificado CE de acuerdo a la Directiva Europea 2014/68/EU; módulos A2 y C2.
- Áreas de aplicación: Sistemas de HVAC, Aire comprimido, bombas, industrias químicas, aplicaciones marinas ...

Observaciones:

Dada la complejidad, variedad y gran cantidad de especificaciones particulares de cada instalación, en conjunto con la existencia de diversos factores que pueden afectar a las condiciones de trabajo y naturaleza del producto, es responsabilidad del usuario final realizar los ensayos necesarios para garantizar el correcto funcionamiento del producto en cada aplicación concreta.  
La instalación del producto deberá realizarse y mantenerse siguiendo códigos de buena práctica y/o estándares existentes.

TECHNICAL FEATURES

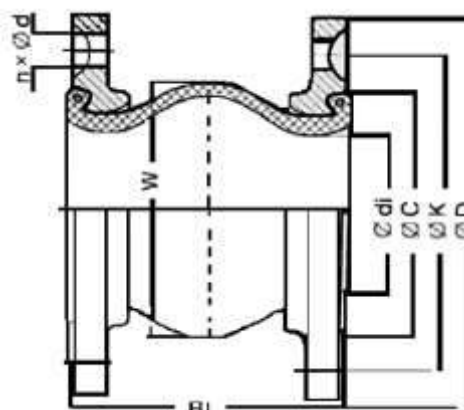
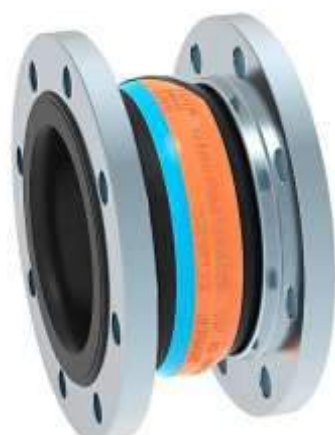
- Working pressure: PN 16.
- Working temperature: -80 °C to + 427 °C.
- Pressure / Temperature ratio according to DIN 2401.
- CE certificate according to the European Directive 2014/68/EU; modules A2 and C2.
- Application area: HVAC systems, air compressors, pumps, chemical factories, marine applications ...

Remarks:

Due to the complexity, variety and large number of particular specifications for each installation, along with the existence of diverse factors which can affect the working conditions and nature of the product, it is the responsibility of the end-user to carry out the necessary tests to ensure the proper functioning of the product in any specific application.  
Product installation must be carried out and maintained following the good practice codes and/or updated technical standards.

INFORMACIÓN TÉCNICA – TECHNICAL INFORMATION

| DN  | REF.     | DIMENSIONES - DIMENSIONS |          |                             |           | COMPRESIÓN AXIAL<br>AXIAL MOVEMENT<br>(mm) |
|-----|----------|--------------------------|----------|-----------------------------|-----------|--------------------------------------------|
|     |          | Ø d (mm)                 | Ø D (mm) | ESPIRALES - SPIRALS<br>(nº) | L<br>(mm) |                                            |
| 20  | CDBVP020 | 26,9                     | 48       | 20                          | 250       | +5 / -25                                   |
| 25  | CDBVP025 | 38,0                     | 48       | 20                          | 250       | +5 / -25                                   |
| 32  | -        | 42,4                     | 55       | 28                          | 350       | +10 / -30                                  |
| 40  | CDBVP040 | 48,3                     | 61       | 24                          | 350       | +10 / -30                                  |
| 50  | -        | 60,3                     | 76       | 26                          | 350       | +10 / -35                                  |
| 65  | -        | 76,1                     | 95       | 26                          | 350       | +10 / -35                                  |
| 80  | CDBVP080 | 88,9                     | 111      | 18                          | 350       | +10 / -40                                  |
| 100 | -        | 114,3                    | 140      | 18                          | 350       | +10 / -40                                  |
| 125 | -        | 139,7                    | 164      | 17                          | 350       | +10 / -40                                  |
| 150 | -        | 168,3                    | 200      | 15                          | 350       | +10 / -40                                  |
| 200 | -        | 219,1                    | 250      | 14                          | 350       | +10 / -40                                  |
| 250 | -        | 273,0                    | 324      | 10                          | 350       | +10 / -40                                  |
| 300 | -        | 323,9                    | 380      | 8                           | 350       | +10 / -40                                  |
| 350 | -        | 355,6                    | 412      | 8                           | 350       | +10 / -40                                  |



Los antivibratorios /compensadores stenflex con armazón de alambre de acero han sido diseñados para una larga duración a elevadas temperaturas. La combinación de un caucho sintético especialmente resistente al calor, con el alambre de acero flexible tratado contra la corrosión, proporciona un compensador de unas características extraordinarias. Es particularmente adecuado, para el montaje en tuberías de enfriamiento de agua en conexiones a motores, sistemas de calefacción y agua caliente.

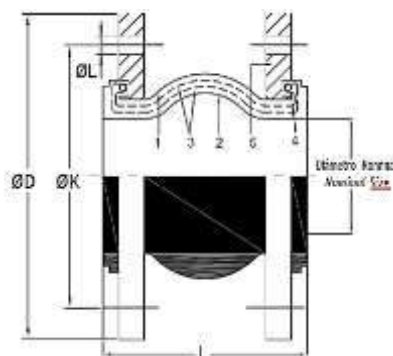
| MATERIALES       |              |                                            |
|------------------|--------------|--------------------------------------------|
| Calidad          | Marcado      | Características                            |
| E =EPDM          | Naranja/Azul | Especialmente apropiado para agua caliente |
| P= Perbunan NBR* | Rojo/Azul    | Resistente al aceite                       |

Está formado por fuelle de goma, moldeado, onda de forma esférica, con buena flexibilidad, con armazón de alambre de acero flexible, protegido contra la corrosión, con reborde resistente a la rotura y bridas de acero, giratorias, en ambos lados, con resalte estabilizador especial y fijación con tornillos normales.

| DIMENSIONES – DIMENSIONS |                      |          |                      |       |          |            |                                         |                                    |                                    |          |          |
|--------------------------|----------------------|----------|----------------------|-------|----------|------------|-----------------------------------------|------------------------------------|------------------------------------|----------|----------|
| REF                      |                      |          |                      | DN    | BL<br>mm | Ø di<br>mm | Área de<br>sección<br>efectiva<br>Q cm² | Cara<br>de<br>resalte<br>Ø C<br>mm | Onda<br>(sin<br>presión)<br>Ø W mm | AS1<br>* | A1<br>** |
| NBR                      |                      | EPDM     |                      |       |          |            |                                         |                                    |                                    |          |          |
| AS-1                     | A1                   | AS-1     | A1                   |       |          |            |                                         |                                    |                                    |          |          |
| -                        | ANBRH025             | AEPDF105 | AEPDH025             | 25    | 125      | 37         | 28                                      | 73                                 | 74                                 | 4,4      | 5,5      |
| -                        | ANBRH032<br>ANBRH040 | -        | AEPDH032<br>AEPDH040 | 32/40 | 125      | 37         | 28                                      | 73                                 | 74                                 | 4,4      | 5,5      |
| ANBRH102                 | ANBRH050             | -        | AEPDH050             | 50    | 125      | 46         | 40                                      | 85                                 | 88                                 | 4,5      | 6,6      |
| ANBRH12M                 | ANBRH065             | AEPDF165 | AEPDH065             | 65    | 125      | 62         | 68                                      | 104                                | 112                                | 4,9      | 8,2      |
| ANBRH103                 | ANBRH080             | -        | AEPDH080             | 80    | 150      | 76         | 108                                     | 117                                | 139                                | 5,9      | 9,1      |
| ANNRH100                 | ANBRH100             | AEPDH100 | AEPDA004             | 100   | 150      | 96         | 124                                     | 136                                | 148                                | 7,2      | 10,9     |
| -                        | -                    | AEPD1125 | AEPDHA05             | 125   | 150      | 121        | 187                                     | 165                                | 178                                | 9,1      | 14       |
| -                        | -                    | AEPDF106 | AEPDHA06             | 150   | 150      | 146        | 245                                     | 190                                | 202                                | 10,9     | 17       |
| -                        | -                    | -        | -                    | 175   | 150      | 175        | 320                                     | 216                                | 217                                | 15,7     | 20       |
| -                        | -                    | -        | -                    | 200   | 175      | 200        | 425                                     | 266                                | 264                                | 19,8     | 24,5     |
| -                        | -                    | -        | -                    | 250   | 175      | 250        | 60                                      | 316                                | 314                                | 24,7     | 28,7     |
| -                        | -                    | -        | -                    | 300   | 200      | 300        | 890                                     | 375                                | 374                                | 31,5     | 35,5     |
| -                        | -                    | -        | -                    | 350   | 200      | 350        | 1130                                    | 427                                | 425                                | 42       | 49       |
| -                        | -                    | -        | -                    | 400   | 200      | 400        | 1400                                    | 477                                | 470                                | 52       | 60       |

\*AS1: Refuerzo Metálico.

\*\*A1: Refuerzo Textil.



## CARACTERÍSTICAS TÉCNICAS

- Diseñadas para la absorción, en cierto grado, de dilataciones térmicas, sobrepresiones, ruidos, corrección de desalineaciones entre tuberías, aislamiento de vibraciones, etc.
- Presión de trabajo: PN 16-10 (ver tabla).
- Vacío: 700 mm Hg (933 mbar).
- Temperatura de trabajo: -10 °C a 115 °C.
- Extremos de unión brida según UNE-EN 1092-1, DIN 2576 (PN 10) y DIN 2502 (PN 16); fabricados en acero al carbono y acabado electrozincado.
- Bloque flexible en simple onda fabricado en polímero NBR en interior y exterior, con refuerzo de nylon y aro de acero.
- Marcado: SYC; DN; ØD; PN; NBR.

## TECHNICAL FEATURES

- Designed for absorption, to a certain degree, of thermal dilatations, pressure surges, noise and vibrations, correction of misalignments between pipes.
- Working pressure: PN 16-10 (see table).
- Vacuum: 700 mm Hg (933 mbar).
- Working temperature: -10 °C to 115 °C.
- Flanged ends according to EN 1092-1, DIN 2576 (PN 10) y DIN 2502 (PN 16); produced in carbon steel and electrozinc-coated.
- Flexible block in simple wave produced in polymer NBR inside and outside, strengthened with nylon and steel ring.
- Marking: SYC; DN; ØD; PN; NBR.

| DESCRIPCIÓN COMPONENTES - COMPONENTS DESCRIPTION |                                                                |                                 |                       |
|--------------------------------------------------|----------------------------------------------------------------|---------------------------------|-----------------------|
| Ítem                                             | Descripción - Description                                      | Material - Material             | Acabado - Surface     |
| 1, 2                                             | Bloque flexible en simple onda - Flexible block in simple wave | NBR                             | ---                   |
| 3                                                | Refuerzo del bloque flexible - Flexible block strengthening    | Nylon - Nylon                   | ---                   |
| 4                                                | Aro de refuerzo - Strengthening ring                           | Acero al Carbono - Carbon Steel | Zincado - Zinc coated |
| 5                                                | Brida - Flange                                                 | Acero al Carbono - Carbon Steel | Zincado - Zinc coated |

| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |                             |        |          |    |                                    |                                                               |                                                               |                    |                               |
|--------------------------------------------|-----------------------------|--------|----------|----|------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------|--------------------|-------------------------------|
| REF                                        | Tubo de Acero<br>Steel tube |        |          | PN | Brida - Flange                     |                                                               |                                                               | Longitud<br>Length | Peso aprox.<br>Weight approx. |
|                                            |                             |        |          |    | Diámetro exterior/Outside diameter | Diámetro del círculo paratornillos<br>Diameter of bolt circle | Nº y diámetro para tornillos<br>Nº and diameter of bolt holes |                    |                               |
|                                            | DN                          | NPS    | Øext(mm) |    | ØD (mm)                            | ØK (mm)                                                       | nr-ØL(mm)                                                     |                    |                               |
| ANBRB032                                   | 32                          | 1 1/4" | 42,4     | 16 | 140                                | 100                                                           | 4 - 18                                                        | 95                 | 2,87                          |
| ANBRB040                                   | 40                          | 1 1/2" | 48,3     | 16 | 150                                | 110                                                           | 4 - 18                                                        | 95                 | 3,55                          |
| ANBRB050                                   | 50                          | 2"     | 60,3     | 16 | 165                                | 125                                                           | 4 - 18                                                        | 105                | 4,10                          |
| ANBRB065                                   | 65                          | 2 1/2" | 76,1     | 16 | 185                                | 145                                                           | 4 - 18                                                        | 115                | 2,23                          |
| ANBRB080                                   | 80                          | 3"     | 88,9     | 16 | 200                                | 160                                                           | 8 - 18                                                        | 135                | 6,30                          |
| ANBRB100                                   | 100                         | 4"     | 114,3    | 16 | 220                                | 180                                                           | 8 - 18                                                        | 135                | 7,25                          |
| ANBRB125                                   | 125                         | 5"     | 139,7    | 16 | 250                                | 210                                                           | 8 - 18                                                        | 165                | 9,07                          |
| ANBRB125                                   | 150                         | 6"     | 168,3    | 16 | 285                                | 240                                                           | 8 - 22                                                        | 180                | 13,2                          |
| ANBR2001                                   | 200                         | 8"     | 219,1    | 10 | 340                                | 295                                                           | 8 - 22                                                        | 205                | 17,5                          |
| ANBR2006                                   | 200                         | 8"     | 219,1    | 16 | 340                                | 295                                                           | 12 - 22                                                       | 205                | 17,5                          |

## NOTA:

Opciones de fabricación hasta 400 mm  
Opción de simple onda en EPDM /NBR

**Descripción:**

-Tubo monocapa SDR6/SERIE2,5  
-Clase 1/10 bar, clase 2/8 bar, clase 4/10 bar, clase 5/6bar.

**Suministro:**

-En barras de 4 metros.

INFORMACIÓN TÉCNICA TUBERIA SDR6/SERIE  
2,5 → PN20

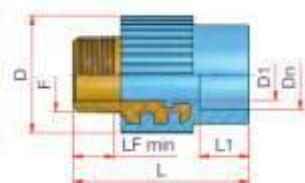
| REF.     | Ø     | Espesor (mm) | L (m) |
|----------|-------|--------------|-------|
| TUBPPN16 | 16 mm | 2,7          | 4     |
| TUBPPN20 | 20 mm | 3,4          | 4     |

INFORMACIÓN TÉCNICA TUBERIA SDR7,4/SERIE  
3,2 → PN16

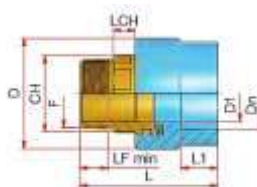
| REF.     | Ø      | Espesor (mm) | L (m) |
|----------|--------|--------------|-------|
| TUBPP625 | 25 mm  | 3,5          | 4     |
| TUBPP632 | 32 mm  | 4,4          | 4     |
| TUBPP640 | 40 mm  | 5,5          | 4     |
| TUBPP650 | 50 mm  | 6,9          | 4     |
| TUBPP663 | 63 mm  | 8,7          | 4     |
| TUBPP675 | 75 mm  | 10,4         | 4     |
| TUBPP690 | 90 mm  | 12,5         | 4     |
| TUBPP110 | 110 mm | 15,2         | 4     |

ENLACE PP-R ROSCA MACHO UNIÓN SOCKET  
POLYPROPYLENE NIPPLES RM

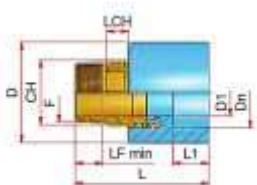
A



B



C



## INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tipo | Ø     | Uds caja | Dn (mm) | F    | LFmin (mm) | D1 (mm) | D (mm) | L1 (mm) | L (mm) |
|----------|------|-------|----------|---------|------|------------|---------|--------|---------|--------|
| EPPM0M16 | A    | 16 mm | 70       | 16,0    | 1/2" | 13,2       | 14,1    | 37,0   | 15,0    | 55,0   |
| EPPM0M20 | A    | 20 mm | 70       | 20,0    | 1/2" | 13,2       | 14,1    | 37,0   | 16,0    | 55,0   |
| EPPM3420 | A    | 20 mm | 50       | 20,0    | 3/4" | 14,5       | 18,0    | 43,0   | 20,5    | 63,0   |
| EPPM0M25 | A    | 25 mm | 70       | 25,0    | 1/2" | 13,2       | 14,1    | 37,0   | 17,0    | 56,0   |
| EPPM3425 | A    | 25 mm | 50       | 25,0    | 3/4" | 14,5       | 18,0    | 42,0   | 17,5    | 62,0   |
| EPPM3422 | A    | 32 mm | 40       | 32,0    | 3/4" | 14,5       | 18,0    | 45,5   | 20,0    | 68,5   |
| EPPM0132 | A    | 32 mm | 30       | 32,0    | 1"   | 16,8       | 24,0    | 54,0   | 20,0    | 71,0   |

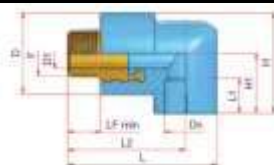
## INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tip | Ø      | Uds caja | Dn (mm) | F     | LFmin (mm) | D1 (mm) | D (mm) | L1 (mm) | L (mm) | CH (mm) | LCH (mm) |
|----------|-----|--------|----------|---------|-------|------------|---------|--------|---------|--------|---------|----------|
| EPPM0140 | C   | 40 mm  | 25       | 40,0    | 1"    | 16,8       | 24,0    | 56,0   | 22,0    | 86,0   | 34,0    | 13,0     |
| EPPM1C40 | B   | 40 mm  | 20       | 40,0    | 11/4" | 19,1       | 33,0    | 65,0   | 22,0    | 91,0   | 42,0    | 15,0     |
| EPPM1C50 | C   | 50 mm  | 20       | 50,0    | 11/4" | 19,1       | 33,0    | 70,0   | 25,0    | 93,0   | 42,0    | 15,0     |
| EPPM1M50 | B   | 50 mm  | 15       | 50,0    | 11/2" | 19,1       | 33,0    | 70,0   | 25,0    | 93,0   | 42,0    | 15,0     |
| EPPM1M63 | C   | 63 mm  | 10       | 63,0    | 11/2" | 19,1       | 38,0    | 88,0   | 29,0    | 97,5   | 50,0    | 15,0     |
| EPPM0263 | B   | 63 mm  | 10       | 63,0    | 2"    | 23,4       | 49,5    | 92,0   | 29,0    | 105,0  | 60,0    | 18,0     |
| EPPM0275 | C   | 75 mm  | 6        | 75,0    | 2"    | 23,4       | 49,5    | 103,0  | 33,0    | 109,0  | 60,0    | 18,0     |
| EPPM2M75 | B   | 75 mm  | 4        | 75,0    | 21/2" | 26,7       | 63,5    | 110,0  | 33,0    | 112,0  | 80,0    | 20,0     |
| -        | B   | 90 mm  | 2        | 90,0    | 3"    | 29,8       | 75,0    | 129,0  | 37,0    | 129,0  | 90,0    | 23,0     |
| -        | B   | 110 mm | 1        | 110,0   | 4"    | 35,8       | 99,5    | 160,0  | 43,0    | 148,0  | 115,0   | 30,0     |
| -        | C   | 125 mm | 1        | 125,0   | 4"    | 35,8       | 99,5    | 160,0  | 47,5    | 152,5  | 115,0   | 30,0     |

CODO 90° PP ROSCA MACHO UNIÓN SOCKET  
POLYPROPYLENE ELBOW 90° RM

VALVULERIA Y FERRETERIA NAVAL

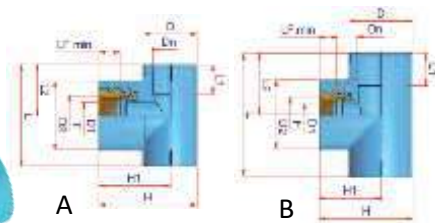
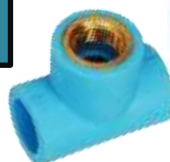
SUMINISTROS BENI SL



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Ø     | Uds caja | Dn (mm) | D1 (mm) | D (mm) | F    | LFmin (mm) | L1 (mm) | L2 (mm) | H1 (mm) | H (mm) |
|----------|-------|----------|---------|---------|--------|------|------------|---------|---------|---------|--------|
| -        | 16 mm | 50       | 16,0    | 14,0    | 37,0   | 1/2" | 13,2       | 13,0    | 54,0    | 27,5    | 46,0   |
| CPPM200M | 20 mm | 60       | 20,0    | 14,0    | 37,0   | 1/2" | 13,2       | 16,0    | 54,0    | 27,5    | 46,0   |
| CPPM250M | 25 mm | 50       | 25,0    | 14,0    | 37,0   | 1/2" | 13,2       | 17,0    | 54,0    | 30,5    | 49,0   |
| CPPM2534 | 25 mm | 40       | 25,0    | 18,5    | 42,0   | 3/4" | 14,5       | 17,0    | 54,0    | 30,5    | 51,5   |
| CPPM320M | 32 mm | 30       | 32,0    | 14,0    | 42,0   | 1/2" | 13,2       | 18,0    | 61,0    | 36,0    | 57,0   |
| CPPM3234 | 32 mm | 30       | 32,0    | 18,5    | 42,2   | 3/4" | 14,5       | 18,0    | 61,0    | 36,0    | 57,0   |
| CPPM3201 | 32 mm | 25       | 32,0    | 24,0    | 54,0   | 1"   | 16,8       | 20,0    | 65,0    | 47,0    | 74,0   |

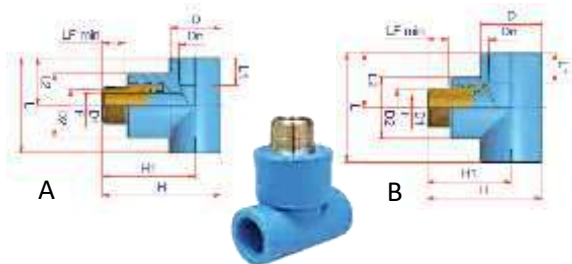
TE PP NIRON ROSCA HEMBRA UNIÓN SOCKET  
POLYPROPYLENE TEE RH



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tipo | Ø     | Uds caja | Dn (mm) | D1 (mm) | D2 (mm) | D (mm) | F    | LFmin (mm) | L1 (mm) | L2 (mm) | L (mm) | H1 (mm) | H (mm) |
|----------|------|-------|----------|---------|---------|---------|--------|------|------------|---------|---------|--------|---------|--------|
| -        | A    | 16 mm | 50       | 16,0    | 14,1    | 37,0    | 29,0   | 1/2" | 11,5       | 14,0    | 26,5    | 53,0   | 33,0    | 53,0   |
| TPPH200M | A    | 20 mm | 50       | 20,0    | 14,1    | 37,0    | 29,0   | 1/2" | 11,5       | 16,0    | 27,5    | 55,0   | 39,0    | 53,5   |
| TPPH250M | A    | 25 mm | 40       | 25,0    | 14,1    | 37,0    | 35,0   | 1/2" | 11,5       | 17,0    | 30,5    | 61,0   | 39,0    | 56,5   |
| TPPH2534 | A    | 25 mm | 35       | 25,0    | 18,5    | 42,0    | 35,0   | 3/4" | 13,2       | 17,0    | 30,5    | 61,0   | 39,0    | 56,5   |
| -        | B    | 32 mm | 30       | 32,0    | 14,1    | 42,0    | 42,0   | 1/2" | 11,5       | 20,0    | 37,5    | 75,0   | 41,0    | 62,0   |
| TPPH3234 | B    | 32 mm | 35       | 32,0    | 18,5    | 42,0    | 42,0   | 3/4" | 13,2       | 20,0    | 37,5    | 75,0   | 41,0    | 62,0   |
| TPPH3201 | B    | 32 mm | 16       | 32,0    | 24,0    | 54,0    | 42,0   | 1"   | 17,8       | 20,0    | 47,0    | 95,0   | 39,0    | 66,0   |

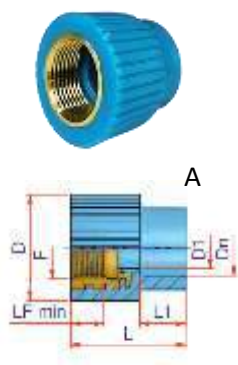
TE PP NIRON ROSCA MACHO UNIÓN SOCKET  
POLYPROPYLENE TEE RM



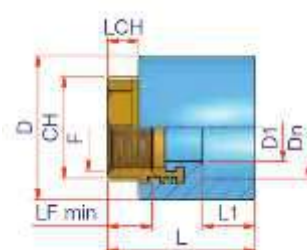
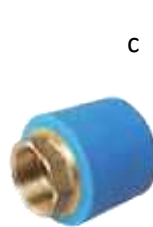
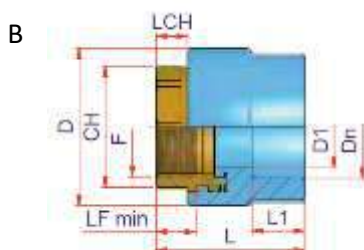
INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tipo | Ø     | Uds caja | Dn (mm) | D1 (mm) | D2 (mm) | D (mm) | F    | LFmin (mm) | L1 (mm) | L2 (mm) | L (mm) | H1 (mm) | H (mm) |
|----------|------|-------|----------|---------|---------|---------|--------|------|------------|---------|---------|--------|---------|--------|
| -        | A    | 16 mm | 50       | 16,0    | 14,1    | 37,0    | 29,0   | 1/2" | 13,2       | 14,0    | 26,5    | 53,0   | 48,0    | 62,5   |
| TPPM200M | A    | 20 mm | 50       | 20,0    | 14,1    | 37,0    | 29,0   | 1/2" | 13,2       | 16,0    | 27,5    | 55,0   | 54,0    | 68,5   |
| -        | A    | 25 mm | 40       | 25,0    | 14,1    | 37,0    | 35,0   | 1/2" | 13,2       | 17,0    | 30,5    | 61,0   | 54,0    | 71,5   |
| -        | A    | 25 mm | 30       | 25,0    | 18,5    | 42,0    | 35,0   | 3/4" | 14,5       | 17,0    | 30,5    | 61,0   | 56,0    | 73,5   |
| -        | B    | 32 mm | 25       | 32,0    | 14,1    | 42,0    | 42,0   | 1/2" | 13,2       | 20,0    | 37,5    | 75,0   | 56,0    | 77,0   |
| -        | B    | 32 mm | 24       | 32,0    | 18,5    | 42,0    | 42,0   | 3/4" | 14,5       | 20,0    | 37,5    | 75,0   | 58,0    | 79,0   |
| TPPM3201 | B    | 32 mm | 14       | 32,0    | 24,0    | 54,0    | 42,0   | 1"   | 16,8       | 20,0    | 47,0    | 95,0   | 63,5    | 85,0   |





| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |      |       |          |         |      |            |         |        |         |        |
|--------------------------------------------|------|-------|----------|---------|------|------------|---------|--------|---------|--------|
| REF.                                       | Tipo | Ø     | Uds caja | Dn (mm) | F    | LFmin (mm) | D1 (mm) | D (mm) | L1 (mm) | L (mm) |
| -                                          | A    | 16 mm | 70       | 16,0    | 1/2" | 11,5       | 14,1    | 37,0   | 15,0    | 40,0   |
| EPPH0M20                                   | A    | 20 mm | 70       | 20,0    | 1/2" | 11,5       | 14,1    | 37,0   | 16,0    | 40,0   |
| EPPH3420                                   | A    | 20 mm | 60       | 20,0    | 3/4" | 13,2       | 18,0    | 43,0   | 20,5    | 46,0   |
| EPPH0M25                                   | A    | 25 mm | 90       | 25,0    | 1/2" | 11,5       | 14,1    | 37,0   | 17,0    | 41,0   |
| EPPH3425                                   | A    | 25 mm | 60       | 25,0    | 3/4" | 13,2       | 18,0    | 42,0   | 18,0    | 46,0   |
| EPPH3432                                   | A    | 32 mm | 50       | 32,0    | 3/4" | 13,2       | 18,0    | 45,5   | 21,5    | 51,5   |
| EPPH0132                                   | A    | 32 mm | 30       | 32,0    | 1"   | 18,0       | 24,0    | 54,0   | 20,0    | 52,0   |

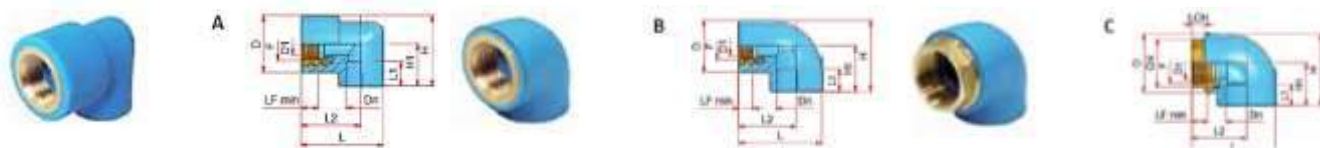


| INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION |      |        |          |         |        |            |         |        |         |        |         |          |
|--------------------------------------------|------|--------|----------|---------|--------|------------|---------|--------|---------|--------|---------|----------|
| REF.                                       | Tipo | Ø      | Uds caja | Dn (mm) | F      | LFmin (mm) | D1 (mm) | D (mm) | L1 (mm) | L (mm) | CH (mm) | LCH (mm) |
| EPPH0140                                   | C    | 40 mm  | 30       | 40,0    | 1"     | 15,0       | 24,0    | 56,0   | 22,0    | 67,0   | 38,0    | 15,0     |
| EPPH1C40                                   | B    | 40 mm  | 25       | 40,0    | 1 1/4" | 21,4       | 33,0    | 66,0   | 22,0    | 69,0   | 46,0    | 15,0     |
| EPPH1C50                                   | C    | 50 mm  | 25       | 50,0    | 1 1/4" | 21,4       | 33,0    | 70,0   | 25,0    | 71,0   | 46,0    | 15,0     |
| EPPH1M50                                   | B    | 50 mm  | 16       | 50,0    | 1 1/2" | 19,0       | 39,5    | 75,0   | 25,0    | 72,0   | 55,0    | 15,0     |
| EPPH1M63                                   | C    | 63 mm  | 15       | 63,0    | 1 1/2" | 19,0       | 39,5    | 88,0   | 29,0    | 71,0   | 55,0    | 15,0     |
| EPPH0263                                   | B    | 63 mm  | 12       | 63,0    | 2"     | 23,7       | 50,0    | 92,0   | 29,0    | 80,0   | 65,0    | 20,0     |
| EPPH0275                                   | C    | 75 mm  | 4        | 75,0    | 2"     | 23,7       | 50,0    | 103,0  | 33,0    | 84,0   | 65,0    | 20,0     |
| EPPH2M75                                   | B    | 75 mm  | 6        | 75,0    | 2 1/2" | 30,2       | 63,5    | 110,0  | 33,0    | 89,0   | 80,0    | 20,0     |
| EPPH0390                                   | B    | 90 mm  | 4        | 90,0    | 3"     | 33,3       | 75,0    | 129,0  | 37,0    | 99,0   | 95,0    | 23,0     |
| -                                          | B    | 110 mm | 2        | 110,0   | 4"     | 39,3       | 99,5    | 160,0  | 43,0    | 111,0  | 120,0   | 30,0     |
| -                                          | C    | 125 mm | 1        | 125,0   | 4"     | 39,3       | 99,5    | 160,0  | 47,5    | 115,5  | 120,0   | 30,0     |

CODO 90º PP ROSCA HEMBRA UNIÓN SOCKET  
POLYPROPYLENE ELBOW 90º RH

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tipo | Ø     | Uds caja | Dn (mm) | D1 (mm) | D (mm) | F      | LFmin (mm) | L1 (mm) | L2 (mm) | L (mm) | H1 (mm) | H (mm) | CH (mm) | LCH (mm) |
|----------|------|-------|----------|---------|---------|--------|--------|------------|---------|---------|--------|---------|--------|---------|----------|
| CPPH160M | A    | 16 mm | 60       | 16,0    | 14,0    | 37,0   | 1/2"   | 11,5       | 13,0    | 39,0    | 53,5   | 27,5    | 46,0   | -       | -        |
| CPPH200M | A    | 20 mm | 60       | 20,0    | 14,0    | 37,0   | 1/2"   | 11,5       | 16,0    | 39,0    | 53,5   | 27,5    | 46,0   | -       | -        |
| CPPH250M | A    | 25 mm | 50       | 25,0    | 14,0    | 37,0   | 1/2"   | 11,5       | 17,0    | 39,0    | 56,5   | 30,5    | 49,0   | -       | -        |
| CPPH2534 | A    | 25 mm | 40       | 25,0    | 18,5    | 42,0   | 3/4"   | 13,2       | 17,0    | 39,0    | 56,5   | 30,5    | 51,5   | -       | -        |
| CPPH320M | B    | 32 mm | 30       | 32,0    | 14,0    | 42,0   | 1/2"   | 11,5       | 18,0    | 46,0    | 67,0   | 36,0    | 57,0   | -       | -        |
| CPPH3234 | B    | 32 mm | 35       | 32,0    | 18,5    | 42,0   | 3/4"   | 13,2       | 18,0    | 46,0    | 67,0   | 36,0    | 57,0   | -       | -        |
| CPPH3201 | B    | 32 mm | 30       | 32,0    | 24,0    | 54,0   | 1"     | 18,0       | 20,0    | 46,0    | 67,0   | 47,0    | 74,0   | -       | -        |
| CPPH401  | B    | 40 mm | 20       | 40,0    | 24,0    | 57,0   | 1"     | 18,0       | 20,0    | 52,0    | 79,0   | 43,0    | 72,0   | 46,0    | 15,0     |
|          | C    | 50 mm | 10       | 50,0    | 33,0    | 70,0   | 1 1/4" | 21,4       | 25,0    | 66,0    | 101,0  | 51,0    | 86,0   | 55,0    | 15,0     |
| CPPH501M | C    | 50 mm | 10       | 50,0    | 39,5    | 70,0   | 1 1/2" | 19,0       | 25,0    | 66,0    | 101,0  | 51,0    | 86,0   | 55,0    | 15,0     |
|          | C    | 63 mm | 4        | 63,0    | 39,5    | 88,0   | 1 1/2" | 19,0       | 29,0    | 77,0    | 121,0  | 62,0    | 106,0  | 65,0    | 20,0     |
| CPPH6302 | C    | 63 mm | 4        | 63,0    | 50,0    | 88,0   | 2"     | 23,7       | 29,0    | 82,0    | 126,0  | 62,0    | 106,0  | 65,0    | 20,0     |

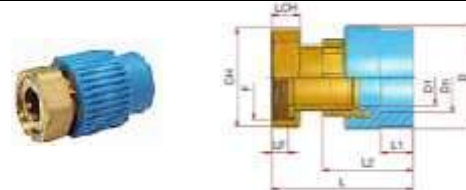
CODO PLACA 90º ROSCA HEMBRA  
UNION SOCKET



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Ø     | Uds caja | Dn (mm) | D1 (mm) | D2 (mm) | D (mm) | F      | LFmin (mm) | L1 (mm) | L2 (mm) | L (mm) | H1 (mm) | H2 (mm) | H (mm) |
|----------|-------|----------|---------|---------|---------|--------|--------|------------|---------|---------|--------|---------|---------|--------|
| -        | 16 mm | 40       | 16,0    | 14,0    | 3,0     | 37,0   | 1"     | 11,5       | 13,0    | 39,0    | 53,5   | 27,5    | 57,0    | 63,5   |
| CPPPOM20 | 20 mm | 40       | 20,0    | 14,0    | 3,0     | 37,0   | 1 1/4" | 11,5       | 16,0    | 39,0    | 53,5   | 27,5    | 57,0    | 63,5   |

RACOR LOCO PP NIRON TL-H  
POLYPROPYLENE TL-H NIRON

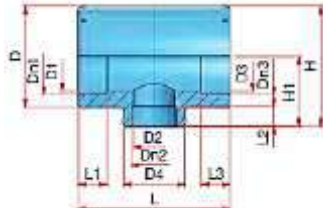


INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

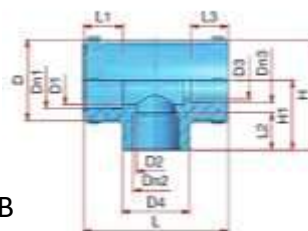
| REF.     | Ø     | Uds caja | Dn (mm) | F      | LF (mm) | D1 (mm) | D (mm) | L1 (mm) | L2 (mm) | L (mm) | CH (mm) | LCH (mm) |
|----------|-------|----------|---------|--------|---------|---------|--------|---------|---------|--------|---------|----------|
| PPTL3420 | 20 mm | 10       | 20,0    | 3/4"   | 10,8    | 14,1    | 37,0   | 16,0    | 40,0    | 62,0   | 30,0    | 14,0     |
| PPTL3425 | 25 mm | 20       | 25,0    | 3/4"   | 10,8    | 14,1    | 37,0   | 17,0    | 41,0    | 62,0   | 30,0    | 14,0     |
| PPTL0125 | 25 mm | 10       | 25,0    | 1"     | 11,5    | 18,0    | 42,0   | 18,0    | 46,0    | 70,5   | 37,0    | 15,0     |
| PPTL0132 | 32 mm | 15       | 32,0    | 1"     | 11,5    | 18,0    | 45,5   | 21,5    | 51,0    | 76,0   | 37,0    | 15,0     |
| PPTL1C32 | 32 mm | 30       | 32,0    | 1 1/4" | 14,0    | 24,0    | 54,5   | 20,0    | 53,0    | 81,0   | 46,0    | 18,0     |
| PPTL1C40 | 40 mm | 20       | 40,0    | 1 1/4" | 14,0    | 24,0    | 56,0   | 22,0    | 67,0    | 93,0   | 46,0    | 18,0     |
| PPTL1M40 | 40 mm | 24       | 40,0    | 1 1/2" | 14,0    | 33,0    | 66,0   | 22,0    | 69,0    | 98,0   | 52,0    | 18,0     |
| -        | 50 mm | 16       | 50,0    | 1 1/2" | 14,0    | 33,0    | 70,0   | 25,0    | 56,0    | 101,0  | 52,0    | 18,0     |
| -        | 50 mm | 16       | 50,0    | 2"     | 17,5    | 39,5    | 76,5   | 25,0    | 72,0    | 107,0  | 64,5    | 24,0     |
| -        | 63 mm | 10       | 63,0    | 2"     | 17,5    | 39,5    | 88,0   | 29,0    | 75,0    | 110,0  | 64,5    | 24,0     |
| -        | 63 mm | 8        | 63,0    | 2 1/2" | 21,0    | 50,0    | 93,0   | 29,0    | 81,0    | 135,5  | 81,5    | 25,5     |



A



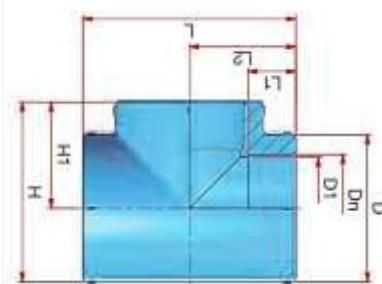
B



## INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tipo | Ø              | Uds<br>caja | Dn1<br>(mm) | Dn2<br>(mm) | Dn3<br>(mm) | D1<br>(mm) | D2<br>(mm) | D3<br>(mm) | D4<br>(mm) | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | L3<br>(mm) | L<br>(mm) | H1<br>(mm) | H<br>(mm) |
|----------|------|----------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|-----------|------------|------------|------------|-----------|------------|-----------|
| -        | A    | 16X20X16 mm    | 150         | 16,0        | 20,0        | 16,0        | 13,5       | 14,0       | 13,5       | 29,0       | 29,0      | 14,0       | 16,0       | 14,0       | 53,0      | 27,0       | 42,0      |
| -        | A    | 20x16x20 mm    | 150         | 20,0        | 16,0        | 20,0        | 16,5       | 13,5       | 16,5       | 29,0       | 29,0      | 16,0       | 14,0       | 16,0       | 53,0      | 27,0       | 42,0      |
| -        | A    | 25x16x25 mm    | 80          | 25,0        | 16,0        | 25,0        | 21,0       | 13,5       | 21,0       | 29,0       | 35,0      | 17,0       | 14,0       | 17,0       | 62,0      | 30,0       | 47,5      |
| TPPN2520 | A    | 25x20x25 mm    | 80          | 25,0        | 20,0        | 25,0        | 21,0       | 16,5       | 21,0       | 29,0       | 35,0      | 17,0       | 16,0       | 17,0       | 62,0      | 30,0       | 47,5      |
| TPPN3220 | A    | 32x20x32 mm    | 40          | 32,0        | 20,0        | 32,0        | 30,0       | 16,5       | 30,0       | 29,0       | 46,0      | 20,0       | 16,0       | 20,0       | 75,0      | 35,0       | 58,0      |
| TPPN2532 | A    | 32x25x32 mm    | 40          | 32,0        | 25,0        | 32,0        | 30,0       | 21,0       | 30,0       | 35,0       | 46,0      | 20,0       | 17,0       | 20,0       | 75,0      | 35,0       | 58,0      |
| TPPN2040 | A    | 40x20x40 mm    | 20          | 40,0        | 20,0        | 40,0        | 36,0       | 16,5       | 36,0       | 33,0       | 53,0      | 24,0       | 16,0       | 24,0       | 74,0      | 39,0       | 66,0      |
| TPPN2540 | A    | 40x25x40 mm    | 25          | 40,0        | 25,0        | 40,0        | 36,0       | 21,0       | 36,0       | 33,0       | 53,0      | 24,0       | 20,0       | 24,0       | 74,0      | 39,0       | 66,0      |
| TPPN3240 | A    | 40x32x40 mm    | 18          | 40,0        | 32,0        | 40,0        | 35,0       | 30,0       | 35,0       | 54,0       | 54,0      | 22,0       | 20,0       | 22,0       | 87,0      | 43,0       | 70,0      |
| TPPN2050 | A    | 50x20x50 mm    | 12          | 50,0        | 20,0        | 50,0        | 47,0       | 16,5       | 47,0       | 43,0       | 66,0      | 26,0       | 16,0       | 26,0       | 87,0      | 47,0       | 80,0      |
| TPPN250  | A    | 50x25x50 mm    | 10          | 50,0        | 25,0        | 50,0        | 47,0       | 21,0       | 47,0       | 43,0       | 66,0      | 26,0       | 20,0       | 26,0       | 87,0      | 47,0       | 80,0      |
| TPPN3250 | A    | 50x32x50 mm    | 10          | 50,0        | 32,0        | 50,0        | 47,0       | 30,0       | 47,0       | 43,0       | 66,0      | 26,0       | 20,0       | 26,0       | 87,0      | 47,0       | 80,0      |
| TPPN4050 | A    | 50x40x50 mm    | 10          | 50,0        | 40,0        | 50,0        | 43,0       | 36,0       | 43,0       | 66,0       | 66,0      | 23,0       | 22,0       | 23,0       | 102,0     | 50,0       | 83,0      |
| TPPN2563 | A    | 63x25x63 mm    | 10          | 63,0        | 25,0        | 63,0        | 60,0       | 21,0       | 60,0       | 53,0       | 83,0      | 30,0       | 21,0       | 30,0       | 102,0     | 54,0       | 96,0      |
| TPPN3263 | A    | 63x32x63 mm    | 6           | 63,0        | 32,0        | 63,0        | 60,0       | 30,0       | 60,0       | 53,0       | 83,0      | 30,0       | 21,0       | 30,0       | 102,0     | 54,0       | 96,0      |
| TPPN4063 | A    | 63x40x63 mm    | 6           | 63,0        | 40,0        | 63,0        | 60,0       | 36,0       | 60,0       | 53,0       | 83,0      | 30,0       | 23,0       | 30,0       | 102,0     | 54,0       | 96,0      |
| TPPN5063 | A    | 63x50x63 mm    | 6           | 63,0        | 50,0        | 63,0        | 50,0       | 46,0       | 50,0       | 80,0       | 80,0      | 25,0       | 26,0       | 25,0       | 122,0     | 64,0       | 104,0     |
| TPPN7532 | A    | 75x32x75 mm    | 8           | 75,0        | 32,0        | 75,0        | 60,0       | 22,0       | 60,0       | 43,0       | 98,0      | 30,0       | 18,0       | 30,0       | 139,0     | 67,0       | 116,0     |
| TPPN7540 | A    | 75x40x75 mm    | 6           | 75,0        | 40,0        | 75,0        | 60,0       | 36,0       | 60,0       | 65,0       | 98,0      | 30,0       | 23,0       | 30,0       | 139,0     | 69,0       | 118,0     |
| TPPN7550 | A    | 75x50x75 mm    | 6           | 75,0        | 50,0        | 75,0        | 70,0       | 46,0       | 70,0       | 70,0       | 101,0     | 33,0       | 25,0       | 33,0       | 146,0     | 73,0       | 123,5     |
| TPP07563 | A    | 75x63x75 mm    | 6           | 75,0        | 63,0        | 75,0        | 70,0       | 59,0       | 70,0       | 86,0       | 101,0     | 33,0       | 29,0       | 33,0       | 146,0     | 73,0       | 123,5     |
| TPPN9063 | A    | 90x63x90 mm    | 4           | 90,0        | 63,0        | 90,0        | 78,0       | 50,0       | 78,0       | 85,0       | 120,0     | 33,0       | 27,0       | 33,0       | 160,0     | 73,0       | 133,0     |
| TPP09075 | A    | 90x75x90 mm    | 10          | 90,0        | 75,0        | 90,0        | 87,0       | 71,0       | 87,0       | 114,0      | 114,0     | 37,0       | 33,0       | 37,0       | 167,0     | 83,0       | 140,0     |
| -        | A    | 110x63x110 mm  | 5           | 110,0       | 63,0        | 110,0       | 100,0      | 59,0       | 100,0      | 86,0       | 146,0     | 43,0       | 33,0       | 43,0       | 200,0     | 100,0      | 173,0     |
| -        | A    | 110x75x110 mm  | 5           | 110,0       | 75,0        | 110,0       | 100,0      | 69,0       | 100,0      | 101,0      | 146,0     | 43,0       | 33,0       | 43,0       | 200,0     | 100,0      | 173,0     |
| -        | A    | 110x90x100 mm  | 4           | 110,0       | 90,0        | 110,0       | 100,0      | 85,0       | 100,0      | 119,0      | 146,0     | 43,0       | 37,0       | 43,0       | 200,0     | 100,0      | 173,0     |
| -        | A    | 125x75x125 mm  | 20          | 125,0       | 75,0        | 125,0       | 113,0      | 69,0       | 113,0      | 101,0      | 165,0     | 47,5       | 33,0       | 47,5       | 250,0     | 115,0      | 197,5     |
| -        | A    | 125x90x125 mm  | 3           | 125,0       | 90,0        | 125,0       | 113,0      | 85,0       | 113,0      | 122,0      | 135,0     | 47,5       | 37,0       | 47,5       | 250,0     | 115,0      | 197,5     |
| -        | A    | 125x110x125 mm | 20          | 125,0       | 110,0       | 125,0       | 113,0      | 110,0      | 113,0      | 146,0      | 165,0     | 47,5       | 250,0      | 120,0      | 250,0     | 120,0      | 202,5     |
| -        | B    | 20X16X16 mm    | 150         | 20,0        | 16,0        | 16,0        | 14,0       | 13,5       | 13,5       | 29,0       | 29,0      | 16,0       | 14,0       | 14,0       | 53,0      | 27,0       | 42,0      |
| TPP02020 | B    | 25X20X20 mm    | 90          | 25,0        | 20,0        | 20,0        | 21,0       | 16,5       | 16,5       | 29,0       | 35,0      | 17,0       | 16,0       | 16,0       | 62,0      | 30,0       | 47,5      |
| -        | B    | 32X25X25 mm    | 50          | 32,0        | 25,0        | 25,0        | 30,0       | 21,0       | 21,0       | 35,0       | 46,0      | 20,0       | 17,0       | 17,0       | 75,0      | 35,0       | 58,0      |

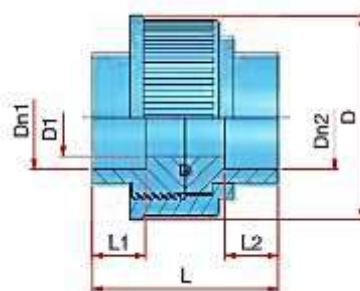
TE PP NIRON UNIÓN SOCKET  
POLYPROPYLENE TEE



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Ø      | Uds<br>caja | Dn<br>(mm) | D1<br>(mm) | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | L<br>(mm) | H1<br>(mm) | H<br>(mm) |
|----------|--------|-------------|------------|------------|-----------|------------|------------|-----------|------------|-----------|
| TPP00N16 | 16 mm  | 100         | 16,0       | 13,0       | 24,0      | 14,5       | 23,5       | 47,0      | 23,5       | 35,5      |
| TPP00N20 | 20 mm  | 150         | 20,0       | 18,0       | 33,0      | 16,0       | 27,0       | 54,0      | 27,0       | 43,5      |
| TPP00N25 | 25 mm  | 80          | 25,0       | 21,0       | 35,0      | 17,0       | 31,5       | 63,0      | 31,5       | 49,0      |
| TPP00N32 | 32 mm  | 40          | 32,0       | 30,0       | 46,0      | 20,0       | 37,0       | 74,0      | 37,0       | 60,0      |
| TPP00N40 | 40 mm  | 30          | 40,0       | 36,0       | 56,0      | 22,0       | 43,0       | 86,0      | 43,0       | 71,0      |
| TPP00N50 | 50 mm  | 16          | 50,0       | 46,0       | 70,0      | 25,0       | 51,0       | 102,0     | 51,0       | 86,0      |
| TPP00N63 | 63 mm  | 8           | 63,0       | 59,0       | 88,0      | 29,0       | 62,0       | 124,0     | 62,0       | 106,0     |
| TPP00N75 | 75 mm  | 6           | 75,0       | 70,0       | 101,0     | 33,0       | 73,0       | 146,0     | 73,0       | 123,5     |
| TPP00N90 | 90 mm  | 10          | 90,0       | 88,0       | 123,0     | 37,0       | 85,0       | 170,0     | 85,0       | 144,0     |
| TPP00110 | 110 mm | 40          | 110,0      | 100,0      | 146,0     | 43,0       | 100,0      | 200,0     | 100,0      | 173,0     |
| -        | 125 mm | 3           | 125,0      | 113,0      | 165,0     | 47,5       | 125,0      | 250,0     | 125,0      | 207,5     |

RACOR TRES PIEZAS UNIÓN SOCKET  
POLYPROPYLENE-R UNION THREE-PIECE ALL

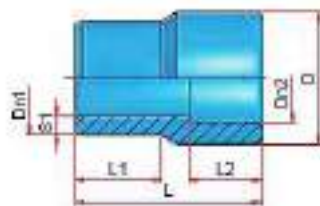


INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Ø (mm) | Uds<br>caja | Dn1<br>(mm) | Dn2<br>(mm) | D1<br>(mm) | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | L<br>(mm) |
|----------|--------|-------------|-------------|-------------|------------|-----------|------------|------------|-----------|
| PP340020 | 20 mm  | 30          | 20,0        | 20,0        | 14,0       | 53,0      | 20,0       | 20,0       | 73,0      |
| PP340025 | 25 mm  | 26          | 25,0        | 25,0        | 18,0       | 57,0      | 20,0       | 20,0       | 70,0      |
| PP340032 | 32 mm  | 20          | 32,0        | 32,0        | 24,0       | 67,0      | 20,0       | 20,0       | 70,0      |
| PP340040 | 40 mm  | 18          | 40,0        | 40,0        | 29,0       | 77,0      | 20,0       | 20,0       | 70,0      |



A

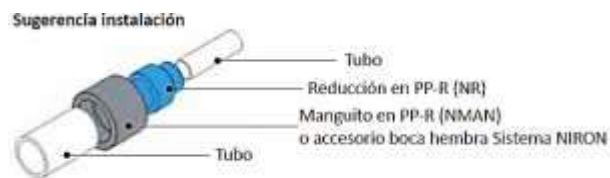
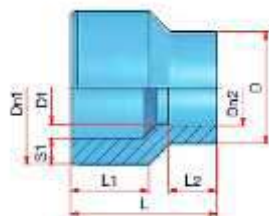


## INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tipo | Ø          | Uds<br>caja | Dn1<br>(mm) | S1<br>(mm) | Dn2<br>(mm) | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | L<br>(mm) |
|----------|------|------------|-------------|-------------|------------|-------------|-----------|------------|------------|-----------|
| RPPN2016 | A    | 20/16 mm   | 150         | 20,0        | 3,4        | 16,0        | 24,0      | 16,0       | 18,0       | 37,0      |
| RPPN2516 | A    | 25/16 mm   | 100         | 25,0        | 4,2        | 16,0        | 26,0      | 19,0       | 18,0       | 39,0      |
| RPPN2520 | A    | 25/20 mm   | 100         | 25,0        | 4,2        | 20,0        | 29,0      | 19,0       | 16,0       | 41,0      |
| RPPN3225 | A    | 32/25 mm   | 80          | 32,0        | 5,4        | 25,0        | 35,0      | 22,0       | 17,0       | 44,0      |
| RPPN4032 | A    | 40/32 mm   | 40          | 40,0        | 6,7        | 32,0        | 46,0      | 25,0       | 20,0       | 50,0      |
| RPPN5040 | A    | 50/40 mm   | 40          | 50,0        | 8,3        | 40,0        | 56,0      | 28,0       | 22,0       | 55,0      |
| RPPN6350 | A    | 63/50 mm   | 20          | 63,0        | 10,5       | 50,0        | 70,0      | 32,0       | 25,0       | 54,0      |
| RPPN7563 | A    | 75/63 mm   | 12          | 75,0        | 12,5       | 63,0        | 83,0      | 36,0       | 29,0       | 74,0      |
| RPPN9075 | A    | 90/75 mm   | 18          | 90,0        | 15,0       | 75,0        | 96,0      | 37,0       | 34,0       | 80,0      |
| RPPN1190 | A    | 110/90 mm  | 6           | 110,0       | 18,3       | 90,0        | 130,0     | 55,0       | 35,0       | 110,0     |
| -        | A    | 125/110 mm | 4           | 125,0       | 20,8       | 110,0       | 139,0     | 50,0       | 43,0       | 114,0     |



B

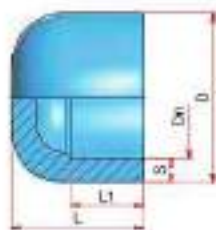


## INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Tipo | Ø         | Uds<br>caja | Dn1<br>(mm) | S1<br>(mm) | Dn2<br>(mm) | D1<br>(mm) | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | L<br>(mm) |
|----------|------|-----------|-------------|-------------|------------|-------------|------------|-----------|------------|------------|-----------|
| RPPN3220 | B    | 32/20 mm  | 80          | 32,0        | 5,4        | 20,0        | 16,0       | 29,0      | 20,0       | 16,0       | 45,0      |
| RPPN4020 | B    | 40/20 mm  | 80          | 40,0        | 6,7        | 20,0        | 16,0       | 29,0      | 25,0       | 16,0       | 45,0      |
| RPPN4025 | B    | 40/25 mm  | 60          | 40,0        | 6,7        | 25,0        | 21,0       | 35,0      | 25,0       | 17,0       | 45,0      |
| RPPN5020 | B    | 50/20 mm  | 50          | 50,0        | 8,3        | 20,0        | 16,0       | 29,0      | 28,0       | 16,0       | 53,0      |
| RPPN5025 | B    | 50/25 mm  | 40          | 50,0        | 8,3        | 25,0        | 21,0       | 35,0      | 28,0       | 17,0       | 53,0      |
| RPPN5032 | B    | 50/32 mm  | 50          | 63,0        | 8,3        | 32,0        | 30,0       | 46,0      | 28,0       | 20,0       | 53,0      |
| RPPN6325 | B    | 63/25 mm  | 30          | 63,0        | 10,5       | 25,0        | 21,0       | 35,0      | 32,0       | 17,0       | 60,0      |
| RPPN6332 | B    | 63/32 mm  | 20          | 63,0        | 10,5       | 32,0        | 30,0       | 46,0      | 32,0       | 20,0       | 60,0      |
| RPPN6340 | B    | 63/40 mm  | 25          | 63,0        | 10,5       | 40,0        | 37,0       | 56,0      | 32,0       | 22,0       | 60,0      |
| -        | B    | 75/20 mm  | 16          | 75,0        | 12,5       | 20,0        | 20,0       | 26,5      | 35,0       | 5,0        | 62,0      |
| -        | B    | 75/25 mm  | 20          | 75,0        | 12,5       | 25,0        | 25,0       | 33,0      | 34,0       | 9,0        | 62,0      |
| -        | B    | 75/32 mm  | 24          | 75,0        | 12,5       | 32,0        | 32,0       | 43,0      | 35,0       | 12,0       | 62,0      |
| RPPN7540 | B    | 75/40 mm  | 18          | 75,0        | 12,5       | 40,0        | 40,0       | 43,0      | 35,0       | 25,0       | 62,0      |
| RPPN7550 | B    | 75/50 mm  | 20          | 75,0        | 12,5       | 50,0        | 50,0       | 66,0      | 34,0       | 20,0       | 59,0      |
| RPPN1163 | B    | 110/63 mm | 25          | 110,0       | 18,3       | 63,0        | 59,0       | 88,0      | 46,0       | 29,0       | 80,0      |



TAPÓN PP UNIÓN SOCKET  
POLYPROPYLENE CAP



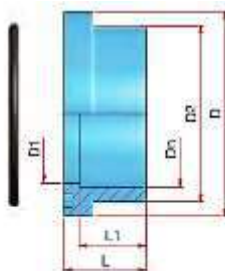
INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF      | Ø      | Uds caja | Dn (mm) | D (mm) | L1 (mm) | L (mm) |
|----------|--------|----------|---------|--------|---------|--------|
| -        | 16 mm  | 150      | 16,0    | 29,0   | 14,0    | 53,0   |
| TAPPP020 | 20 mm  | 150      | 20,0    | 29,0   | 16,0    | 53,0   |
| TAPPP025 | 25 mm  | 80       | 25,0    | 35,0   | 17,0    | 62,0   |
| TAPPP032 | 32 mm  | 80       | 32,0    | 35,0   | 17,0    | 62,0   |
| TAPPP040 | 40 mm  | 40       | 40,0    | 46,0   | 20,0    | 75,0   |
| TAPPP050 | 50 mm  | 40       | 50,0    | 46,0   | 20,0    | 75,0   |
| TAPPP063 | 63 mm  | 20       | 63,0    | 53,0   | 24,0    | 74,0   |
| TAPPP075 | 75 mm  | 25       | 75,0    | 53,0   | 24,0    | 74,0   |
| TAPPP090 | 90 mm  | 18       | 90,0    | 54,0   | 22,0    | 87,0   |
| -        | 110 mm | 12       | 110,0   | 66,0   | 26,0    | 87,0   |
| -        | 125 mm | 10       | 125,0   | 66,0   | 26,0    | 87,0   |

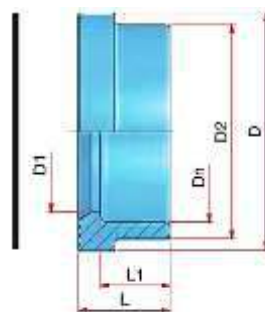
PORTABRIDA / VALONA PP UNIÓN SOCKET  
POLYPROPYLENE STUB END



A

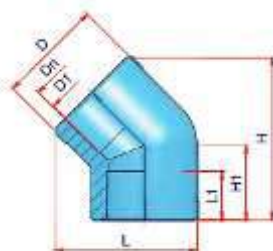


B



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

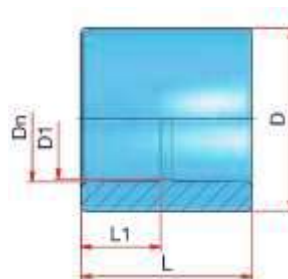
| REF                                              | Tipo | Ø      | Uds caja | Dn (mm) | D (mm) | D1 (mm) | D2 (mm) | L1 (mm) | L (mm) |
|--------------------------------------------------|------|--------|----------|---------|--------|---------|---------|---------|--------|
| <b>PORTABRIDAS CON JUNTA TÓRICA UNIÓN SOCKET</b> |      |        |          |         |        |         |         |         |        |
| PPPBR032                                         | A    | 32 mm  | 100      | 32,0    | 51,0   | 28,0    | 40,6    | 18,0    | 26,0   |
| PPPBR040                                         | A    | 40 mm  | 50       | 40,0    | 64,0   | 36,0    | 49,4    | 20,5    | 30,0   |
| PPPBR050                                         | A    | 50 mm  | 36       | 50,0    | 73,2   | 45,5    | 61,0    | 23,5    | 34,0   |
| PPPBR063                                         | A    | 63 mm  | 20       | 63,0    | 90,5   | 56,5    | 76,0    | 27,5    | 38,0   |
| PPPBR075                                         | A    | 75 mm  | 12       | 75,0    | 104,5  | 71,0    | 90,0    | 30,0    | 42,0   |
| <b>PORTABRIDAS CON JUNTA PLANA UNIÓN SOCKET</b>  |      |        |          |         |        |         |         |         |        |
| PPPBR090                                         | B    | 90 mm  | 8        | 90,0    | 84,0   | 84,0    | 107,0   | 37,0    | 46,0   |
| PPPBR110                                         | B    | 110 mm | 10       | 110,0   | 102,0  | 102,0   | 131,0   | 43,0    | 57,0   |
| -                                                | B    | 125 mm | 8        | 125,0   | 120,0  | 120,0   | 146,0   | 47,5    | 62,5   |



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

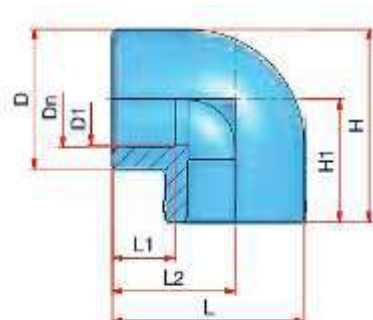
| REF.     | Ø      | Uds<br>caja | Dn1<br>(mm) | D1<br>(mm) | D<br>(mm) | L1<br>(mm) | L<br>(mm) | H1<br>(mm) | H<br>(mm) |
|----------|--------|-------------|-------------|------------|-----------|------------|-----------|------------|-----------|
| C45PP016 | 16 mm  | 150         | 16,0        | 15,0       | 25,0      | 13,0       | 33,0      | 16,5       | 37,0      |
| C45PP020 | 20 mm  | 200         | 20,0        | 16,5       | 29,0      | 16,0       | 33,0      | 21,5       | 46,0      |
| C45PP025 | 25 mm  | 150         | 25,0        | 23,5       | 34,0      | 16,0       | 46,0      | 24,5       | 53,5      |
| C45PP032 | 32 mm  | 50          | 32,0        | 30,0       | 42,0      | 20,0       | 56,0      | 29,0       | 64,0      |
| C45PP040 | 40 mm  | 30          | 40,0        | 36,0       | 53,0      | 22,0       | 67,0      | 32,0       | 72,5      |
| C45PP050 | 50 mm  | 30          | 50,0        | 47,5       | 66,0      | 25,0       | 83,5      | 39,5       | 90,0      |
| C45PP063 | 63 mm  | 35          | 63,0        | 60,0       | 83,0      | 29,0       | 102,0     | 45,0       | 105,0     |
| C45PP075 | 75 mm  | 16          | 75,0        | 70,0       | 99,0      | 33,0       | 129,5     | 65,0       | 145,0     |
| C45PP090 | 90 mm  | 12          | 90,0        | 86,0       | 123,5     | 37,0       | 145,0     | 57,0       | 140,0     |
| C45PP110 | 110 mm | 6           | 110,0       | 100,0      | 146,0     | 43,0       | 172,5     | 70,0       | 169,5     |
| C45PP125 | 125 mm | 4           | 125,0       | 113,0      | 165,0     | 47,5       | 194,0     | 78,0       | 189,5     |

MANGUITO UNION SOCKET  
POLYPROPYLENE SOCKETS



INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF.     | Ø      | Uds<br>caja | Dn<br>(mm) | D1<br>(mm) | D<br>(mm) | L1<br>(mm) | L<br>(mm) |
|----------|--------|-------------|------------|------------|-----------|------------|-----------|
| -        | 16 mm  | 150         | 16,0       | 15,0       | 24,5      | 16,0       | 34,0      |
| PP270020 | 20 mm  | 300         | 20,0       | 18,0       | 29,0      | 17,0       | 35,0      |
| PP270025 | 25 mm  | 150         | 25,0       | 20,0       | 35,0      | 18,0       | 39,0      |
| PP270032 | 32 mm  | 40          | 32,0       | 30,0       | 46,0      | 20,0       | 43,0      |
| PP270040 | 40 mm  | 50          | 40,0       | 37,0       | 56,0      | 22,0       | 48,0      |
| PP270050 | 50 mm  | 20          | 50,0       | 47,0       | 70,0      | 25,0       | 54,0      |
| PP270063 | 63 mm  | 15          | 63,0       | 60,0       | 88,0      | 29,0       | 62,0      |
| PP270075 | 75 mm  | 35          | 75,0       | 70,0       | 101,0     | 33,0       | 71,0      |
| PP270090 | 90 mm  | 24          | 90,0       | 87,5       | 114,5     | 37,0       | 77,0      |
| PP270110 | 110 mm | 12          | 110,0      | 106,0      | 151,0     | 46,0       | 92,0      |
| -        | 125 mm | 4           | 125,0      | 117,0      | 160,0     | 47,5       | 102,0     |



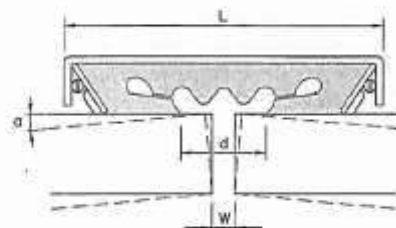
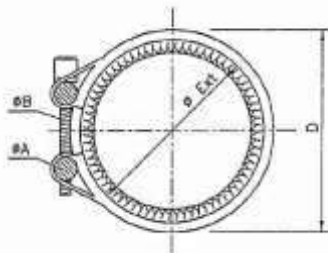
INFORMACIÓN TÉCNICA- TECHNICAL INFORMATION

| REF      | Tipo | Ø      | Uds<br>caja | Dn<br>(mm) | D1<br>(mm) | D<br>(mm) | L1<br>(mm) | L2<br>(mm) | L<br>(mm) | H1<br>(mm) | H<br>(mm) |
|----------|------|--------|-------------|------------|------------|-----------|------------|------------|-----------|------------|-----------|
| C90PP016 | A    | 16 mm  | 150         | 16,0       | 15,0       | 25,0      | 13,0       | 24,0       | 36,0      | 24,0       | 36,0      |
| C90PP020 | A    | 20 mm  | 200         | 20,0       | 16,5       | 29,0      | 16,0       | 27,0       | 41,5      | 27,0       | 41,5      |
| C90PP025 | A    | 25 mm  | 100         | 25,0       | 23,5       | 35,5      | 16,0       | 31,0       | 49,0      | 31,0       | 49,0      |
| C90PP032 | A    | 32 mm  | 50          | 32,0       | 30,0       | 46,0      | 20,0       | 37,0       | 60,0      | 37,0       | 60,0      |
| C90PP040 | A    | 40 mm  | 40          | 40,0       | 36,0       | 56,0      | 22,0       | 43,0       | 71,0      | 43,0       | 71,0      |
| C90PP050 | A    | 50 mm  | 25          | 50,0       | 46,0       | 70,0      | 25,0       | 51,0       | 86,0      | 51,0       | 86,0      |
| C90PP063 | A    | 63 mm  | 25          | 63,0       | 59,0       | 88,0      | 29,0       | 62,0       | 106,0     | 62,0       | 106,0     |
| C90PP075 | A    | 75 mm  | 15          | 75,0       | 70,0       | 101,0     | 33,0       | 73,0       | 123,5     | 73,0       | 123,5     |
| C90PP090 | A    | 90 mm  | 10          | 90,0       | 86,0       | 123,0     | 37,0       | 85,0       | 144,0     | 85,0       | 144,0     |
| C90PP110 | A    | 110 mm | 4           | 110,0      | 100,0      | 146,0     | 43,0       | 100,0      | 173,0     | 100,0      | 173,0     |
| C90PP125 | A    | 125 mm | 4           | 125,0      | 113,0      | 165,0     | 47,5       | 125,0      | 207,5     | 125,0      | 207,5     |

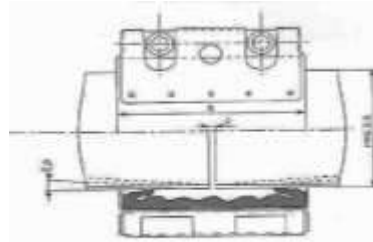
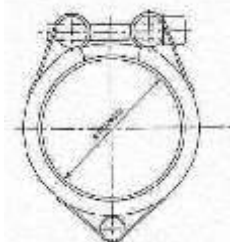
CAMPO DE APLICACIÓN

La unión para tubos se fabrica según DIN 86128 y es un elemento de unión seguro para tubos de pared gruesa y delgada.

Con las uniones para tubos se pueden unir de manera rápida y fácil, y con total seguridad, tuberías de alimentación o evacuación de fluidos gaseoso, líquidos o sólidos, en instalaciones industriales, construcción, plantas químicas, construcción naval, ingeniería civil, tratamientos de aguas, etc



| REF. STRAUB | DN  |        | Tubo ext.<br>(mm) | Ø Ext. Min.<br>Ø Ext. Máx. | D<br>(mm) | l<br>(mm) | d<br>(mm) | Separ.<br>Montaje<br>tubo | ØA<br>(mm) | ØB<br>(mm) | Presión<br>Trabajo<br>Kg/cm <sup>2</sup> | Par de<br>apriete<br>Kg.cm | Desv.<br>Angular<br>a |
|-------------|-----|--------|-------------------|----------------------------|-----------|-----------|-----------|---------------------------|------------|------------|------------------------------------------|----------------------------|-----------------------|
|             | mm  | Incn   |                   |                            |           |           |           |                           |            |            |                                          |                            |                       |
| ASTBW420    | 20  | 3/4"   | 27.2              | 26.7-27.7                  | 41        | 60        | 28        | 0-8                       | 14         | M8         | 16                                       | 80-170                     | 2"                    |
| ASTBW401    | 25  | 1"     | 34.0              | 33.-34.6                   | 47        | 60        | 28        | 0-8                       | 14         | M8         | 16                                       | 80-170                     | 2"                    |
| ASTBW432    | 32  | 1 1/4" | 42.7              | 41.9-43                    | 56        | 60        | 28        | 0-8                       | 14         | M8         | 16                                       | 80-170                     | 2"                    |
| ASTBW41M    | 40  | 1 1/2" | 48.6              | 47.8-49                    | 62        | 60        | 28        | 0-8                       | 140        | M8         | 16                                       | 80-170                     | 2"                    |
| ASTBW402    | 50  | 2"     | 60.5              | 59.7-61                    | 76        | 80        | 44        | 0-8                       | 14         | M8         | 16                                       | 180-200                    | 3"                    |
| ASTBW42M    | 65  | 2 1/2" | 76.3              | 75.3-76.9                  | 92        | 80        | 44        | 0-8                       | 14         | M8         | 14                                       | 180-200                    | 3"                    |
| ASTBW403    | 80  | 3"     | 89.1              | 88-90                      | 110       | 110       | 59        | 0-15                      | 18         | M12        | 14                                       | 350-400                    | 3"                    |
| ASTBW404    | 100 | 4"     | 114.3             | 113.2-115.4                | 135       | 110       | 59        | 0-15                      | 18         | M12        | 14                                       | 350-400                    | 3"                    |
| ASTBW405    | 125 | 5"     | 139.8             | 138.3-141.1                | 162       | 111       | 59        | 0-15                      | 18         | M12        | 14                                       | 450-550                    | 3"                    |
| ASTBW406    | 150 | 6"     | 165.2             | 163.3-166.7                | 187       | 111       | 59        | 0-15                      | 18         | M12        | 12                                       | 450-550                    | 4"                    |
| ASTBW408    | 200 | 8"     | 216.3             | 214.5-218.3                | 243       | 150       | 89        | 0-15                      | 22         | M14        | 8                                        | 700-1000                   | 4"                    |

ABRAZADERA REPARACIÓN BISAGRA RCH-S  
REPAIR CLAMP TINGE

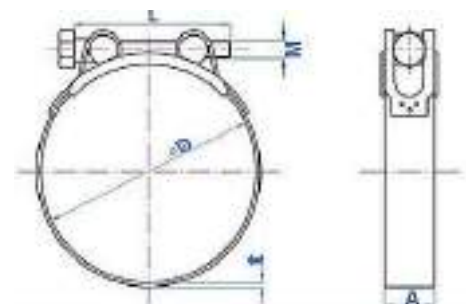
| REF.<br>REPARACIÓN | DN  | PIPE O.D | A<br>(range) | Long. Total(B) | Long. Util | E   | W.P (Bar) | P<br>(Kgf-cm) |
|--------------------|-----|----------|--------------|----------------|------------|-----|-----------|---------------|
| ASTRCH34           | 20  | 26,9     | 26-28        | 58             | 33         | -   | 20        | 70-100        |
| ASTRCH01           | 25  | 33,7     | 33-3         | 58             | 33         | 70  | 20        | 70-100        |
| ASTRCH1C           | 32  | 42,4     | 42-44        | 58             | 33         | 70  | 20        | 70-100        |
| ASTRCH1M           | 40  | 48,3     | 47-49        | 58             | 33         | 70  | 20        | 80-120        |
| ASTRCH02           | 50  | 60,3     | 58-61        | 80             | 46         | 99  | 18        | 80-120        |
| ASTRCH2M           | 65  | 76,1     | 75-78        | 80             | 46         | 99  | 18        | 120-150       |
| ASTRCH03           | 80  | 88,9     | 88-92        | 108            | 65         | 138 | 16        | 120-150       |
| ASTRCH04           | 100 | 114,3    | 113-117      | 108            | 65         | 138 | 16        | 150-200       |
| ASTRCH05           | 125 | 139,7    | 138-142      | 110            | 741        | 138 | 14        | 150-200       |
| ASTRCH06           | 150 | 168,3    | 166-170      | 110            | 71         | 138 | 14        | 150-200       |
| ASTRCH08           | 200 | 219,1    | 217-221      | 155            | 71         | 180 | 12        | 150-200       |

ABRAZADERAS SUPER W4  
SUPER CLAMP W4

VALVULERIA Y FERRETERIA NAVAL

SUMINISTROS BENI SL

| REF.     | DIÁMETRO |
|----------|----------|
| ASUPW412 | 27-29    |
| ASUPW413 | 29-31    |
| ASUPW499 | 31-34    |
| ASUPW415 | 37-40    |
| ASUPW416 | 40-43    |
| ASUPW417 | 43-47    |
| ASUPW418 | 47-51    |
| ASUPW439 | 51-55    |
| ASUPW420 | 55-59    |
| ASUPW421 | 59-63    |
| ASUPW422 | 63-68    |
| ASUPW423 | 68-73    |
| ASUPW424 | 73-79    |
| ASUPW425 | 79-85    |
| ASUPW426 | 85-91    |
| ASUPW443 | 91-97    |
| ASUPW427 | 97-104   |
| ASUPW428 | 104-112  |
| ASUPW440 | 112-121  |
| ASUPW430 | 121-130  |
| ASUPW431 | 130-140  |
| ASUPW432 | 140-150  |
| ASUPW454 | 150-162  |
| ASUPW453 | 162-174  |
| ASUPW445 | 174-187  |
| ASUPW446 | 187-200  |
| ASUPW498 | 200-213  |
| ASUPW447 | 213-226  |

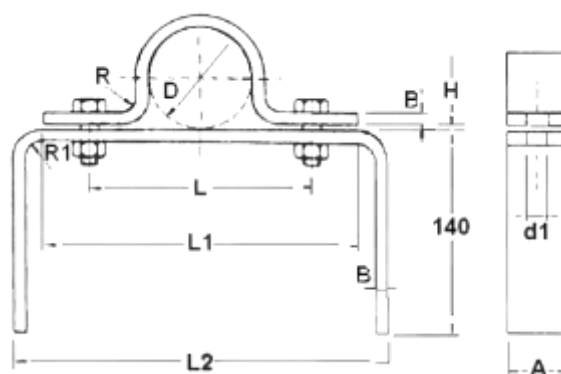


ABRAZADERAS SIN FIN W4  
HOSE BANDS CLAMP W4

| REF.     | DIÁMETRO |
|----------|----------|
| ASINW401 | 8-16     |
| ASINW402 | 12-22    |
| ASINW403 | 16-27    |
| ASINW404 | 20-32    |
| ASINW405 | 25-40    |
| ASINW406 | 32-50    |
| ASINW407 | 40-60    |
| ASINW408 | 50-70    |
| ASINW409 | 60-80    |
| ASINW444 | 70-90    |
| ASINW410 | 80-100   |
| ASINW411 | 90-110   |
| ASINW412 | 110-130  |

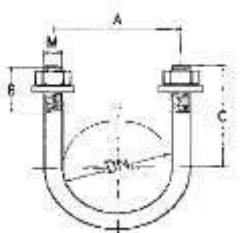






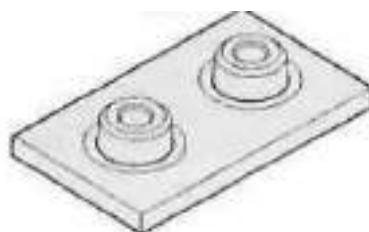
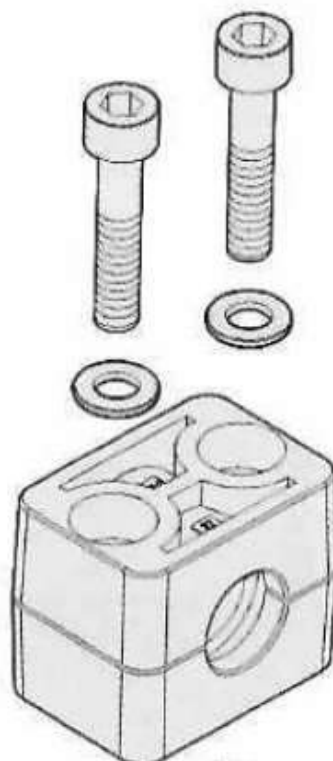
| Dimensiones |     |        |                        |      |        |         |        |        |         |         |      |
|-------------|-----|--------|------------------------|------|--------|---------|--------|--------|---------|---------|------|
| REF.        | DN  |        | Diametro exterior tubo | AxB  | D (mm) | d1 (mm) | H (mm) | L (mm) | L1 (mm) | L2 (mm) | R/R1 |
| ZUN03038    | 10  | 3/8"   | 17,2                   | 30x4 | 18     | 9,5     | 15     | 55     | 75      | 90      | 4    |
| ZUN0300M    | 15  | 1/2"   | 21,3                   | 25x4 | 22     | 9,5     | 20     | 60     | 80      | 95      | 4    |
| ZUN0300C    | 20  | 3/4"   | 26,9                   | 30x4 | 28     | 9,5     | 25     | 65     | 85      | 100     | 4    |
| ZUN03001    | 25  | 1"     | 33,4                   | 30x4 | 34     | 11,5    | 32     | 75     | 100     | 120     | 5    |
| ZUN0301C    | 32  | 1 1/4" | 42,4                   | 30x4 | 43     | 11,5    | 41     | 85     | 110     | 130     | 5    |
| ZUN0301M    | 40  | 1 1/2" | 48,3                   | 30x4 | 49     | 11,5    | 47     | 95     | 120     | 140     | 5    |
| ZUN03002    | 50  | 2"     | 60,3                   | 40x5 | 61     | 11,5    | 58     | 115    | 140     | 155     | 6    |
| ZUN0302M    | 65  | 2 1/2" | 75,1                   | 40x5 | 77     | 11,5    | 74     | 125    | 150     | 170     | 6    |
| ZUN03003    | 80  | 3"     | 88,9                   | 40x5 | 89     | 11,5    | 86     | 140    | 170     | 185     | 6    |
| ZUN03004    | 100 | 4"     | 114,3                  | 40x5 | 115    | 13,5    | 111    | 170    | 205     | 220     | 8    |
| ZUN03005    | 125 | 5"     | 141,3                  | 40x5 | 142    | 13,5    | 138    | 200    | 230     | 250     | 8    |
| ZUN03006    | 150 | 6"     | 168,3                  | 50X6 | 169    | 13,5    | 164    | 225    | 255     | 270     | 8    |
| ZUN03008    | 200 | 8"     | 219,1                  | 50x6 | 220    | 13,5    | 215    | 280    | 310     | 340     | 8    |
| ZUN03010    | 250 | 10"    | 273                    | 50x5 | 274    | 13,5    | 268    | 335    | 380     | 410     | 8    |

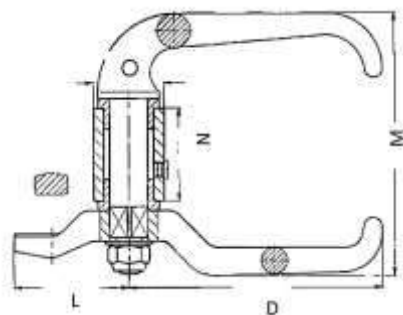
### ABARCON ZN / INOX SHIP STEEL/STAINLESS STEEL PIPE U-BOLTS ZN



| Dimensiones |           |          |       |     |    |     |
|-------------|-----------|----------|-------|-----|----|-----|
| REF. ZN     | REF. INOX | DN       | ROSCA | A   | B  | C   |
|             |           | Pulgadas |       |     |    |     |
| AABAR138    | ZUN04038  | 3/8"     | M6    | 24  | 16 | 23  |
| AABAR10M    | ZUN0400M  | 1/2"     | M6    | 28  | 17 | 25  |
| AABAR134    | ZUN04034  | 3/4"     | M6    | 34  | 19 | 31  |
| AABAR101    | ZUN04001  | 1"       | M6    | 41  | 24 | 39  |
| AABAR11C    | ZUN0401C  | 1 1/4"   | M8    | 49  | 24 | 44  |
| AABAR11M    | ZUN0401M  | 1 1/2"   | M8    | 57  | 26 | 48  |
| AABAR102    | ZUN04002  | 2"       | M8    | 70  | 35 | 53  |
| AABAR12M    | ZUN0402M  | 2 1/2"   | M8    | 85  | 35 | 71  |
| AABAR103    | ZUN04003  | 3"       | M8    | 102 | 35 | 76  |
| AABAR13M    | ZUN0403M  | 3 1/2"   | M10   | 114 | 35 | 82  |
| AABAR104    | ZUN04004  | 4"       | M10   | 127 | 35 | 87  |
| AABAR105    | ZUN04005  | 5"       | M10   | 154 | 40 | 105 |
| AABAR106    | ZUN04006  | 6"       | M10   | 181 | 40 | 118 |
| AABAR108    | ZUN04008  | 8"       | M10   | 232 | 40 | 144 |
| AABAR110    | ZUN04010  | 10"      | M10   | 286 | 40 | 171 |

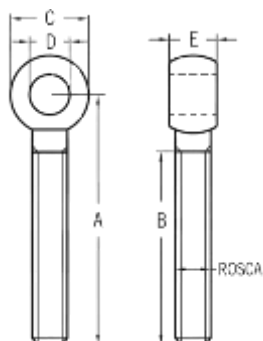
| REF. BASE INOX | MM    | REF. BASE HIERRO |
|----------------|-------|------------------|
| APLSW406       | 6     | APLS0106         |
| APLSW480       | 8     | APLS010C         |
| APLSW410       | 10    | APLS0110         |
| APLSW412       | 12    | APLS0112         |
| APLSW414       | 14    | APLS0114         |
| APLSW415       | 15    | APLS0115         |
| APLSW416       | 16    | APLS0116         |
| APLSW408       | 17    | APLS0138         |
| APLSW418       | 18    | APLS0118         |
| APLSW420       | 20    | APLS0120         |
| APLSW40M       | 21,25 | APLS010M         |
| APLSW422       | 22    | APLS0122         |
| APLSW425       | 25    | APLS0125         |
| APLSW434       | 26,75 | APLS0134         |
| APLSW428       | 28    | APLS0128         |
| APLSW430       | 30    | APLS0130         |
| APLSW432       | 32    | APLS0132         |
| APLSW401       | 33,7  | APLS0101         |
| APLSW435       | 35    | APLS0135         |
| APLSW438       | 38    | APLS0138         |
| APLSW440       | 40    | APLS0140         |
| APLSW41C       | 42    | APLS0142         |
| APLSW445       | 45    | APLS0145         |
| APLSW41M       | 48,3  | APLS011M         |
| APLSW450       | 50,8  | APLS0150         |
| APLSW452       | 52    | APLS0152         |
| APLSW454       | 54    | APLS0154         |
| APLSW402       | 60,3  | APLS0160         |
| APLSW463       | 63,5  | APLS0163         |
| APLSW42M       | 76,1  | APLS0176         |
| APLSW488       | 88,9  | APLS0188         |
| APLSW489       | 89    | APLS0189         |





## DIMENSIONES-DIMENSIONS

| REF      | L  | D   | M   | N  | O  |
|----------|----|-----|-----|----|----|
| 316TR075 | 75 | 165 | 180 | 80 | 45 |


 TORNILLO DE TRINCA P/PORTILLO INOX  
 RATCHET SCREW F/STAINLESS STEEL HAMMER


## DIMENSIONES-DIMENSIONS

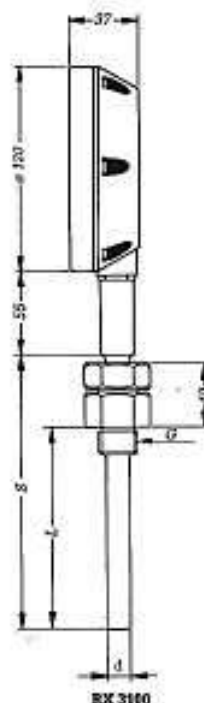
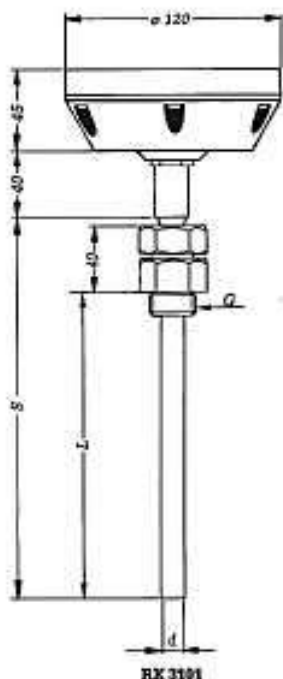
| REF      | Rosca | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) |
|----------|-------|--------|--------|--------|--------|--------|
| TRTO0C10 | M10   | 80     | 62     | 20     | 10     | 12     |
| TRTO0C12 | M12   | 90     | 67     | 24     | 12     | 14     |
| TRTO0C16 | M16   | 120    | 90     | 31     | 16     | 17     |
| TRTO0C20 | M20   | 120    | 90     | 40     | 18     | 22     |

 PALOMILLA INOX CERRADA Y ABIERTA  
 CLOSED AND OPEN SCREW FOR STAINLESS  
 STEEL GATE BOLT


## DIMENSIONES-DIMENSIONS

| REF PALOMILLA CERRADA | REF PALOMILLA ABIERTA | Rosca |
|-----------------------|-----------------------|-------|
| TRPA0C10              | -                     | M10   |
| TRPA0C12              | TRPA0A12              | M12   |
| TRPA0C16              | TRPA0A16              | M16   |





Dial type pyrometer, silicone oil filled,  $\varnothing$ . 120 mm. specially adapted to measure of diesel engine exhaust gas temperature. Stabilised against vibrations with silicone oil filled case. Fully dust-proof and watertight design as per IP 65. Horizontal or vertical stem of steel with sliding union

**Mounting type.** RX3100 vertical stem.

RX3101 horizontal stem.

**Case dim.**  $\varnothing$ . 120 mm. Die-cast aluminium and black enamelled, silicone oil filled.

**Measuring system.** Expansion type Nitrogen filled and bi-metal compensation, Bourdon tube of hardened steel.

**Range.** +50/+650 °Celsius or dual scale +50/+650 and +120/+1200 °Fahrenheit.

**Stem.**  $\varnothing$ . 12, 13 or 16 mm. steel.

Length S = 140, up to 520 mm.

**Connections.** Sliding union, 1/2"BSP, 3/4"BSP, M20x1.5, M24x2 and M27x2 mm.

If there is a demand for higher temperature ranges or for extreme heavy duty the abovemometer type can, on special request, be supplied with further reinforced stabilization and with range +50+750 °C

When ordering please state:

Fig. nr, range, immersion length and connection







VASOS – ACCESORIOS – JUEGOS  
SOCKET - ACCESSORIES - SETS



CEPILLERIA INDUSTRIAL  
INDUSTRIAL BRUSHING



## HERRAMIENTAS DE CHOQUE SHOCK TOOLS



## HERRAMIENTAS DE EXTRACCIÓN EXTRACTION TOOLS



## HERRAMIENTAS DE MEDICIÓN, CORTE E INSTRUMENTACION MEASURING, CUTTING AND INSTRUMENTATION TOOLS



## ALICATES Y TENAZAS SIDE CUTTING PLIERS AND CABLE CUTTERS



## TORNILLOS DE BANCO VISE





TRACCION  
TRACTION





**S** UMINISTROS **B** ENI SL



TUBOS – MANGUERAS  
TUBES - HOSES



ESTANQUEIDAD  
WATERTIGHTNESS






 PROTECCION - SEGURIDAD - ROPA TRABAJO  
 PROTECTION - SAFETY - WORK CLOTHES


## POXILINA MASILLA EPOXI 2 COMPONENTES

VALVULERIA Y FERRETERIA NAVAL



SUMINISTROS



BENI SL

La herramienta comodín en actividades de la industria, taller, fontanería, hogar, automoción, etc. POXILINA® es una masilla ideal para obturar pérdidas en tubería de alta y baja presión en acumuladores, depósitos de todo tipo de líquidos con prestaciones para baja y alta temperatura. Además de unir y pegar, reconstruye con toda facilidad. Para aplicar POXILINA® se cortan dos partes iguales de cada color, se amasa con las manos y se aplica como una plastilina que endurece incluso bajo el agua. Tras su secado, puede ser mecanizada con normalidad. Es apta para trabajos con agua potable. POXILINA® pega y reconstruye metal, madera, mármol, cristal, vidrio, loza, plástico, incluso polipropileno (PP), etc.



### PRESENTACIONES:

**POXILINA® 10 Minutos:** En pastillas de 70g y 250g

| REF      | DESCRIPCION   |
|----------|---------------|
| POXIL070 | POXILINA 70g  |
| POXIL155 | POXILINA 250g |

## POXIPOL ADHESIVO EPOXI 2 COMPONENTES

De múltiples aplicaciones en el hogar, taller, automoción, industria, etc. POXIPOL® es un pegamento con excepcional fuerza adhesiva. La mezcla a partes iguales de cada tubo se aplica como pasta y endurece como metal, adquiriendo las características de una soldadura en frío con extraordinarias propiedades que le confieren la capacidad de ser totalmente mecanizable. POXIPOL® pega metal, plástico, madera, piedra, cristal, loza, vidrio y prácticamente cualquier material.



### PRESENTACIONES:

**POXIPOL Metálico:** En tubos de 14ml (21g), 70ml (108g) y 700ml (1080g)  
**POXIPOL Transparente:** En tubos de 14ml (16g), 70ml (82g) y 700ml (820g)

| REF      | DESCRIPCION                     |
|----------|---------------------------------|
| POXPM070 | POXIPOL METÁLICO 70ml/108g      |
| POXPT070 | POXIPOL TRANSPARENTE 70ml/82g   |
| POXPM700 | POXIPOL METÁLICO 700ml/1080g    |
| POXPT700 | POXIPOL TRANSPARENTE 700ml/820g |





**azcue**  
pumps



Gefico



**ASLAK**  
machines & tools

**NORMA**

*Danfoss*





