

Sellos Gervasi



Catalogo de Perfiles

Sellos Minería - Sellos Especiales - Retenes - Limpiadores - Sellos Pistón y Vástagos



Limpia Vastagos

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--------|---------|---------------------|---------------|--|-------------------------------|
| | WR01 | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR01A | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR02 | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR02A | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR02B | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR02C | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR03 | PUPOM* NBRPOM* | - | -30 to 100 -25 to 100 | 4 |
| | WR04 | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR07 | POM PA PU-D57 | - | -60 to 100 -60 to 100 -30 to 100 | 1 |
| | WR08 | POM PA PU-D57 | - | -60 to 100 -60 to 100 -30 to 100 | 1 |
| | WR11 | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR12 | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR13 | PTFE/NBR | - | -25 to 100 | 10 |
| | WR13_E2 | PTFE/NBR | - | -25 to 100 | 10 |
| | WR14 | PTFE/NBR | - | -25 to 100 | 10 |
| | WR15 | PTFE/NBR | - | -25 to 100 | 10 |
| | WR17 | PU NBR | - | -30 to 105 -25 to 100 | 4 |
| | WR18 | PU NBR | - | -30 to 105 -25 to 100 | 4 |




























Sellos de Vastagos

















| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--------|---------|-------------------------------|-------------------|---|-------------------------------|
| | RS01 | PU NBR FPM | 400 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
| | RS01A | PU NBR FPM | 160 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
| | RS01B | PU NBR FPM | 400 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
| | RS02 | PU/POM NBR/POM FPM/PTFE | 700 250 250 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
| | RS02A | PU/POM NBR/POM FPM/PTFE | 700 250 250 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
| | RS03 | PU NBR | 400 | -25 to 100 | 0,5 |
| | RS04 | PU/NBR/POM | 700 | -25 to 100 | 0,5 |
| | RS05 | PU NBR | 25 | -30 to 105 -25 to 100 | 0,5 |
| | RS08 | PU NBR | 400 160 | -30 to 105 -25 to 100 | 0,3 |
| | RS09 | PU-D57/NBR PTFE/NBR | 250 400 | -25 to 100 | 1 10 |
| | RS09A | PU-D57/NBR PTFE/NBR | 250 400 | -25 to 100 | 1 10 |
| | RS09B | PU-D57/NBR PTFE/NBR | 250 400 | -25 to 100 | 1 10 |
| | RS91 | PU-D57/NBR PTFE/NBR | 250 400 | -25 to 100 | 1 10 |
| | RS16 | NBR | 160 | -25 to 100 | 0,5 |
| | RS17 | PU | 400 | -30 to 105 | 0,5 |
| | RS17A | PUIPOM | 700 | -30 to 100 | 0,5 |
| | RS17B | PU/NBR | 400 | -25 to 100 | 0,5 |
| | RS17C | PU/NBR/POM | 700 | -25 to 100 | 0,5 |
| | RS17D | PU NBR | 400 160 | -30 hasta 105 -25 hasta 100 | 0,3 |
| | RS17E | PU/POM | 700 | -30 hasta 100 | 0,3 |
| | RS19 | PTFE/V-resorte | 160 | -200 hasta 260 | 15 |
| | RS20 | NBR/POM | 700 | -25 to 100 | 0,5 |
| | RS31-33 | PU/POM | 500 | -30 to 100 | 0,5 |
| | RS35 | PU | 400 | -30 to 105 | 0,4 |









Sellos de Piston

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--|-------|-------------------------------|-------------------|---|-------------------------------|
|  | PS01 | PU NBR FPM | 400 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
|  | PS01A | PU NBR FPM | 160 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
|  | PS01B | PU NBR FPM | 400 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
|  | PS02 | PU/POM NBR/POM FPM/PTFE | 700 250 250 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
|  | PS02A | PU/POM NBR/POM FPM/PTFE | 700 250 250 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | 0,5 |
|  | PS03 | PU/NBR | 400 | -25 to 100 | 0,5 |
|  | PS04 | PU/NBR/POM | 700 700 | -25 to 100 | 0,5 |
|  | PS05 | PU NBR | 25 | -30 to 105 -25 to 100 | 4 |
|  | PS08 | PU-D57/NBR PTFE/NBR | 250 400 | -30 to 105 -25 to 100 | 4 |
|  | PS08A | PU-D57/NBR PTFE/NBR | 250 400 | -30 to 105 -25 to 100 | 4 |
|  | PS08B | PU-D57/NBR PTFE/NBR | 250 400 | -30 to 105 -25 to 100 | 4 |
|  | PS08C | PTFE/NBR | 400 | -30 to 105 -25 to 100 | 4 |
|  | PS08D | PTFE/NBR | 400 | -30 to 105 -25 to 100 | 4 |
|  | PS08E | PU-D57/NBR PTFE/NBR | 250 400 | -30 to 100 -25 to 100 | 4 |
|  | PS08F | PU-D57/NBR | 250 | -30 to 105 -25 to 100 | 4 |
|  | PS81 | PU-D57/NBR PTFE/NBR | 250 400 | -60 to 100 -60 to 100 -30 to 100 | 1 |
|  | PS09 | PU/NBR/POM | 400 | -60 to 100 -60 to 100 -30 to 100 | 1 |
|  | PS09A | PTF/NBR/PO | 400 | -30 to 105 -25 to 100 | 4 |
|  | PS16 | NBR | 160 | -30 to 105 -25 to 100 | 4 |
|  | PS16A | NBR | 160 | -25 to 100 | 10 |
|  | PS17 | PU/POM NBR/POM | -400 -250 | -25 to 100 | 10 |
|  | PS19 | PTFE/V-resorte | 160 | -25 to 100 | 10 |
|  | PS20 | NBR/POM | 700 | -25 to 100 | 10 |
|  | PS23 | PU/NBR/POM | 400 | -30 to 105 -25 to 100 | 4 |
|  | PS35 | PU | 400 | -30 to 105 -25 to 100 | 4 |

Sellos Simetricos (Piston o Vastago)

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--|-----------|-------------------------|---------------|--------------------------|-------------------------------|
|  | PRS06 | PU NBR | 400 160 | -30 to 105 -25 to 100 | 0,5 |
|  | PRS06A | PU NBR | 160 160 | -30 to 105 -25 to 100 | 0,5 |
|  | PRS06B | PU NBR | 400 160 | -30 to 105 -25 to 100 | 0,5 |
|  | PRS06C | PU NBR | 400 160 | -30 to 105 -25 to 100 | 0,3 |
|  | PRS06D | PU NBR | 160 160 | -30 to 105 -25 to 100 | 0,5 |
|  | PRS06E | PU NBR | 400 160 | -30 to 105 -25 to 100 | 0,5 |
|  | PRS07 | PU/NBR | 400 | -25 to 100 | 0,5 |
|  | PRS10SP | PU FPM POM | - | -30 to 105 | - |
|  | PRS10 -12 | PU/POM NBR/POM | 500 250 | -30 to 105 -25 to 100 | 0,5 |
|  | PRS13 -15 | PU/POM NBR/POM | 500 250 | -30 to 105 -25 to 100 | 0,5 |
|  | PRS18 | PU/NBR | 400 | -25 to 100 | 0,5 |
|  | PRS19B | PTFE/Resorte helicoidal | 160 | -60 hasta 200 | 15 |
|  | PRS19C | PTFE/Resorte helicoidal | 160 | -60 hasta 200 | 15 |
|  | PRS19D | PTFE/Resorte helicoidal | 160 | -60 hasta 200 | 15 |
|  | PRS22 | PU/POM | 400 | -30 to 100 | 0,5 |
|  | PRS99 | PU | 400 | -30 to 105 | 0,5 |

Anillos de Respaldo (BackUp)

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|---|-------|-------------------|---------------|--|-------------------------------|
|  | BUR08 | PU POM PTFE | - | -30 hasta 105 -60 hasta 100 -200 hasta 260 | - |
|  | BUR09 | PU POM PTFE | - | -30 hasta 105 -60 hasta 100 -200 hasta 260 | - |
|  | BUR10 | PU POM PTFE | - | -30 hasta 105 -60 hasta 100 -200 hasta 260 | - |
|  | BUR11 | PU POM PTFE | - | -30 hasta 105 -60 hasta 100 -200 hasta 260 | - |
|  | BUR12 | PU POM PTFE | - | -30 hasta 105 -60 hasta 100 -200 hasta 260 | - |
|  | BUR13 | PU POM PTFE | - | -30 hasta 105 -60 hasta 100 -200 hasta 260 | - |



Anillos Guia (Bandas Antidesgaste)

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--------|-------|------------------------------|---------------|---------------------------------|-------------------------------|
| | BWR01 | POM PTFE Tela y Resina | - | -60 hasta 100 -200 hasta 260 | - |
| | BWR02 | POM PTFE | - | -60 hasta 100 -200 hasta 260 | - |
| | BWR03 | POM PTFE | - | -60 hasta 100 -200 hasta 260 | - |
| | BWR04 | POM PTFE | - | -60 hasta 100 -200 hasta 260 | - |
| | BWR05 | POM PTFE | - | -60 hasta 100 -200 hasta 260 | - |
| | BWR06 | POM PTFE | - | -60 hasta 100 -200 hasta 260 | - |
| | BWR07 | POM PTFE | - | -60 hasta 100 -200 hasta 260 | - |
| | BWR08 | POM PTFE | - | -60 hasta 100 -200 hasta 260 | - |

Sellos Rotativos

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--------|-------|----------------------------------|-------------------|---|-------------------------------|
| | OS01 | PU/POM * NBR/POM* FPM/PTFE | 0,5 0,5 0,5 | -30 hasta 100 -25 hasta 100 -20 hasta 210 | 5 10 -25 |
| | OS02 | PU/POM * NBR/POM* FPM/PTFE | 0,5 0,5 0,5 | -30 hasta 100 -25 hasta 100 -20 hasta 210 | 5 10 -25 |
| | OS08 | NBR | - | -30 to 105 -25 to 100 | 10 |
| | R03 | PU/POM NBR/POM | 400 250 | -30 to 105 -25 to 100 | 0,2 0,2 |
| | R04 | PU NBR | 160 100 | -30 to 105 -25 to 100 | 0,2 0,2 |
| | R04A | PU NBR | 160 100 | -30 to 105 -25 to 100 | 0,2 0,2 |
| | R05 | PU NBR | 160 100 | -30 to 105 -25 to 100 | 0,2 0,2 |
| | R05A | PU NBR | 160 100 | -30 to 105 -25 to 100 | 0,2 0,2 |
| | VR06 | NBR | - | -25 to 100 | 25 |
| | VR07 | NBR | - | -25 to 100 | 25 |
| | R08 | PTFE/NBR | 350 | -25 to 100 | 0,4 |
| | R09 | PTFE/NBR | 350 | -25 to 100 | 0,4 |
| | R10 | PTFE/NBR | 350 | -25 to 100 | 0,4 |
| | R11 | PTFE/NBR | 350 | -25 to 100 | 0,4 |
| | RS19A | PTFE/V-resorte | 150 | -200 hasta 260 | 2 |
| | PS19A | PTFE/V-resorte | 150 | -200 hasta 260 | 2 |

*Por razones técnicas POM sólo se puede utilizar hasta el máximo 100 ° C
*Para mayor temp. recomendamos utilizar aluminio / acero.

Sellos Especiales

| Perfil | | | | |
|--------|--|--|--|--|
| | | | | |

Sellos Estaticos y Orings

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--------|-------|-------------------|-------------------|---|-------------------------------|
| | FLO1A | PU FPM EPDM | 400 250 250 | -30 hasta 105 -20 hasta 210 -50 hasta 130 | - |
| | FLO2B | PU FPM EPDM | 400 250 250 | -30 hasta 105 -20 hasta 210 -50 hasta 130 | - |
| | FLO3 | PU FPM EPDM | 400 250 250 | -30 hasta 105 -20 hasta 210 -50 hasta 130 | - |

| | | | | | |
|--|-----|------------------|-------------------|---|---|
| | OR | PU NBR FPM | 600 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | - |
| | ORH | PU NBR FPM | 600 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | - |
| | ORV | PU NBR FPM | 600 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | - |

Los O rings están disponibles en cualquier material estándar, en materiales especiales a corto plazo.

| | | | | | |
|--|-------|------------------|-------------------|---|---|
| | QRS01 | PU NBR FPM | 600 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | - |
|--|-------|------------------|-------------------|---|---|

| | | | | | |
|--|------|------------------|-------------------|---|---|
| | SS01 | PU NBR FPM | 600 160 160 | -30 hasta 105 -25 hasta 100 -20 hasta 210 | - |
|--|------|------------------|-------------------|---|---|

Sellos Minería

| Perfil | Tipo | Material Estándar | Presion (bar) | Temp. (°C) | Velocidad superficial (m/sec) |
|--------|--------------------|-------------------|------------------------------|---------------------------------|-------------------------------|
| | P50 | PU/POM | 400 din. * 1500 estat. ** | -30 hasta 100 | 0,5/0,2 |
| | P51 | PU/NBR/POM | 400 din. * 1500 estat. ** | -25 hasta 100 | 0,5/0,2 |
| | P51G | PU/NBR/POM | 400 din. * 1500 estat. ** | -25 hasta 100 | 0,5/0,2 |
| | P52 | PU/POM | 700 din. * 1500 estat. ** | -30 hasta 100 | 0,5/0,2 |
| | P53 | PU/NBR/POM | 700 din. * 1500 estat. ** | -25 hasta 100 | 0,5/0,2 |
| | P54 | PU/NBR/POM | 400 din. * 1500 estat. ** | -25 hasta 100 | 0,5/0,2 |
| | R50 | PU/NBR/POM | 700 | -25 hasta 100 | 0,5 |
| | R51 | PU/NBR | 400 | -25 hasta 100 | 0,5 |
| | R52 | PU/POM | 700 | -30 hasta 100 | 0,5 |
| | R53 | PU | 400 | -30 hasta 100 | 0,5 |
| | W50 | PU | - | -30 hasta 105 | 2 |
| | W51 | PU | - | -30 hasta 100 | 2 |
| | W53 | PU/POM * | - | -30 hasta 100 | 2 |
| | W54 | PU | - | -30 hasta 105 | 2 |
| | BWR01-P BWR01-R | POM PTFE | - | -60 hasta 100 -200 hasta 260 | 4 |
| | P58 | PU | 400 | -30 hasta 100 | 0,3 |

* Por razones técnicas POM sólo se puede utilizar hasta el máximo. 100 ° C.

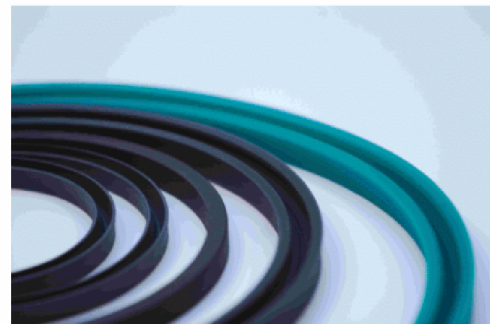
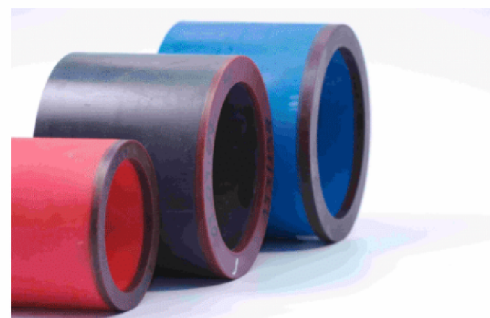
** Para mayor temp. Recomendamos utilizar aluminio / acero.

** La utilización máxima de presión para la aplicación dinámica y estática depende del diseño del perfil.



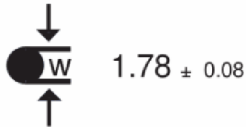
Tabla de Materiales

| Descripción | Temperatura de aplicación | Dureza. at 20°C | Aplicación Principal |
|-------------------------------------|---------------------------|------------------|---|
| PU rojo U203-R95 | -30 to +105°C | Shore A 95 +/-2 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua Resistente a la hidrólisis |
| PU verde U203-G95 | -30 to +105°C | Shore A 95 +/-2 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua Resistente a la hidrólisis |
| PU FDA azul claro U203-B95 | -30 to +105°C | Shore A 95 +/-2 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua Resistente a la hidrólisis |
| PU FDA natural U203-95FDA | -30 to +105°C | Shore A 95 +/-2 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua Resistente a la hidrólisis |
| PU MoS2 gris U203-GM95 | -30 to +105°C | Shore A 95 +/-2 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua Elementos de sellado p/aplic.pesadas. Reiste Hidrólisis |
| PU 57 Shore D azul oscuro U203-D57 | -30 to +90°C | Shore D 57 +/-2 | Sellos compuestos c/ anillo de precarga de caucho Aceite mineral, aire comprimido, agua Resistente a la hidrólisis |
| PU 57 Shore D + MoS2 gris U203-D57G | -30 to +90°C | Shore D 57 +/-2 | Sellos compuestos c/ anillo de precarga de caucho Aceite mineral, aire comprimido, agua Resistente a la hidrólisis |
| NBR negro N107-B85 | -25 to +100°C | Shore A 85 +/- 5 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua |
| NBR 95 negro N109-B95 | -25 to +100°C | Shore A 95 +/-5 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua |
| NBR FDA blanco N111-W85 | -22 to +100°C | Shore A 85 +/- 3 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua |
| H-NBR negro HN112-B85 | -25 to +150°C | Shore A 85 +/- 5 | Sellos U, rascadores y otros elementos de sellado Aceite mineral, aire comprimido, agua |
| FPM marron F109-BR85 | -20 to +210°C | Shore A 85 +/- 5 | Sellos U, rascadores y otros elementos de sellado Altas temperaturas y otros medios agresivos |
| FPM FDA marron F110-BR85 | -20 to +210°C | Shore A 85 +/- 5 | Sellos U, rascadores y otros elementos de sellado Altas temperaturas y otros medios agresivos |
| FPM negro F111-B85 | -25 to +210°C | Shore A 85 +/- 5 | Sellos U, rascadores y otros elementos de sellado Altas temperaturas y otros medios agresivos |
| EPDM negro E131-B85 | -50 to +130°C | Shore A 85 +/- 5 | Sellos U, rascadores y otros elementos de sellado Agua caliente y vapor, acidos y soluciones casticas diluidas EPDM NO ES ESTABLE en aceites minerales |
| EPDM FDA blanco E132-W85 | -50 to +100°C | Shore A 85 +/- 3 | Sellos U, rascadores y otros elementos de sellado Agua caliente y vapor, acidos y soluciones casticas diluidas EPDM NO ES ESTABLE en aceites minerales |
| EPDM KTW negro E133-W270 | -40 to +120°C | Shore A 85 +/-5 | Sellos U, rascadores y otros elementos de sellado Agua caliente y vapor, acidos y soluciones casticas diluidas EPDM NO ES ESTABLE en aceites minerales |
| Silicona FDA azul S103-BL85 | -55 to +180°C | Shore A 85 +/- 3 | Sellos para bridas y elementos estaticos Para aplicaciones dinamicas solo parcialmente conveniente |
| AFLAS negro AF101-B85 | -15 to +210°C | Shore A 85 +/-5 | Anillos, rascadores y diferentes elementos de sellado Aceite y gases acidos, vapor agua-caliente Altas caracteristicas aisladoras electricas |
| POM FDA blanco P101-WE | -60 to +100°C | - | Elementos de guia, respaldos, retenes |
| PA FDA natural A112-WC | -30 to +105°C | - | Elementos de guia, respaldos, retenes |
| PTFE-F gris T105-G | -200 to +260°C | Shore D 55 - 60 | Sellos compuestos con elastomeros precargados Anillos guias, asiento de valvulas, baja friccion Cargado con fibra de vidrio + MoS2 |
| PTFE-P FDA blanco T101-W | -200 to +260°C | Shore D 60 - 65 | Sellos compuestos con elastomeros precargados, sellos con resortes. Anillos guia, asientos valvulas, baja friccion. Contacto con alimentos, excelente resistencia quimica |
| PTFE-40% Bronce marron T110-BR40 | -200 to +260°C | Shore D 62 - 67 | Sellos compuestos con elastomeros precargados, sellos con resortes. Anillos guia, asientos valvulas, baja friccion. |
| PTFE-40% Bronce blue T115-BR40 | -200 to +260°C | Shore D 62 - 67 | Sellos compuestos con elastomeros precargados Anillos guias, asiento de valvulas, baja friccion |
| PTFE-60% Bronce marron T120-BR60 | -200 to +260°C | Shore D 65 - 70 | Sellos compuestos con elastomeros precargados Anillos guias, asiento de valvulas, baja friccion |
| PTFE-25% Carbon gris T125-C25 | -200 to +260°C | Shore D 62 - 67 | Sellos compuestos con elastomeros precargados, sellos con resortes. Anillos guia, asientos valvulas, baja friccion. |
| PEEK natural beige PK100-CN | -200 to +260°C | Shore D 90 | Sellos compuestos con elastomeros precargados, sellos con resortes. Anillos guia, asientos valvulas, baja friccion. |

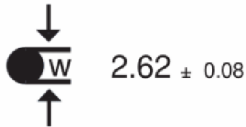


O - Ring

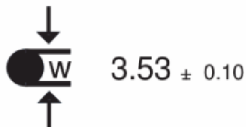
Serie 2 - xxx



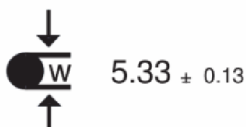
| CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. |
|--------|----------|----------|--------|----------|----------|--------|----------|----------|
| 2-001 | 0.74 | 2.78 | 2-018 | 18.77 | 22.33 | 2-035 | 56.87 | 60.43 |
| 2-002 | 1.07 | 3.61 | 2-019 | 20.35 | 23.91 | 2-036 | 60.05 | 63.61 |
| 2-003 | 1.42 | 4.46 | 2-020 | 21.95 | 25.51 | 2-037 | 63.22 | 66.78 |
| 2-004 | 1.78 | 5.34 | 2-021 | 23.52 | 27.08 | 2-038 | 66.40 | 69.96 |
| 2-005 | 2.57 | 6.13 | 2-022 | 25.12 | 28.68 | 2-039 | 69.57 | 73.13 |
| 2-006 | 2.90 | 6.46 | 2-023 | 26.70 | 30.26 | 2-040 | 72.75 | 76.31 |
| 2-007 | 3.68 | 7.24 | 2-024 | 28.30 | 31.86 | 2-041 | 75.92 | 79.48 |
| 2-008 | 4.47 | 8.03 | 2-025 | 29.87 | 33.43 | 2-042 | 82.27 | 85.83 |
| 2-009 | 5.28 | 8.84 | 2-026 | 31.47 | 35.03 | 2-043 | 88.62 | 92.18 |
| 2-010 | 6.07 | 9.63 | 2-027 | 33.05 | 36.61 | 2-044 | 94.97 | 98.53 |
| 2-011 | 7.65 | 11.21 | 2-028 | 34.65 | 38.21 | 2-045 | 101.32 | 104.88 |
| 2-012 | 9.25 | 12.81 | 2-029 | 37.82 | 41.38 | 2-046 | 107.67 | 111.23 |
| 2-013 | 10.82 | 14.38 | 2-030 | 41.00 | 44.56 | 2-047 | 114.02 | 117.58 |
| 2-014 | 12.42 | 15.98 | 2-031 | 44.17 | 47.73 | 2-048 | 120.37 | 123.93 |
| 2-015 | 14.00 | 17.56 | 2-032 | 47.35 | 50.91 | 2-049 | 126.72 | 130.28 |
| 2-016 | 15.60 | 19.16 | 2-033 | 50.52 | 54.08 | 2-050 | 133.07 | 136.63 |
| 2-017 | 17.17 | 20.73 | 2-034 | 53.70 | 57.26 | | | |



| CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. |
|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|
| 2-402 | 1.24 | 6.48 | 2-419 | 23.47 | 28.71 | 2-436 | 50.47 | 55.71 | 2-453 | 88.57 | 93.81 | 2-470 | 196.52 | 201.76 |
| 2-403 | 2.06 | 7.30 | 2-420 | 25.07 | 30.31 | 2-437 | 52.07 | 57.31 | 2-454 | 94.92 | 100.16 | 2-471 | 202.87 | 208.11 |
| 2-404 | 2.84 | 8.08 | 2-421 | 26.64 | 31.88 | 2-438 | 53.64 | 58.88 | 2-455 | 101.27 | 106.51 | 2-472 | 209.22 | 214.46 |
| 2-405 | 3.63 | 8.87 | 2-422 | 28.24 | 33.48 | 2-439 | 55.25 | 60.49 | 2-456 | 107.62 | 112.86 | 2-473 | 215.57 | 220.81 |
| 2-406 | 4.42 | 9.66 | 2-423 | 29.82 | 35.06 | 2-440 | 56.82 | 62.06 | 2-457 | 113.97 | 119.21 | 2-474 | 221.92 | 227.16 |
| 2-407 | 5.23 | 10.47 | 2-424 | 31.42 | 36.66 | 2-441 | 58.42 | 63.66 | 2-458 | 120.32 | 125.56 | 2-475 | 228.27 | 233.51 |
| 2-408 | 6.02 | 11.26 | 2-425 | 32.99 | 38.23 | 2-442 | 59.99 | 65.23 | 2-459 | 126.67 | 131.91 | 2-476 | 234.62 | 239.86 |
| 2-409 | 7.59 | 12.83 | 2-426 | 34.59 | 39.83 | 2-443 | 61.60 | 66.84 | 2-460 | 133.02 | 138.26 | 2-477 | 240.97 | 246.21 |
| 2-410 | 9.19 | 14.43 | 2-427 | 36.17 | 41.41 | 2-444 | 63.17 | 68.41 | 2-461 | 139.37 | 144.61 | 2-478 | 247.32 | 252.56 |
| 2-411 | 10.77 | 16.01 | 2-428 | 37.77 | 43.01 | 2-445 | 64.77 | 70.01 | 2-462 | 145.72 | 150.96 | | | |
| 2-412 | 12.37 | 17.61 | 2-429 | 39.34 | 44.58 | 2-446 | 66.34 | 71.58 | 2-463 | 152.07 | 157.31 | | | |
| 2-413 | 13.94 | 19.18 | 2-430 | 40.94 | 46.18 | 2-447 | 67.95 | 73.19 | 2-464 | 158.42 | 163.66 | | | |
| 2-414 | 15.54 | 20.78 | 2-431 | 42.52 | 47.76 | 2-448 | 69.52 | 74.76 | 2-465 | 164.77 | 170.01 | | | |
| 2-415 | 17.12 | 22.38 | 2-432 | 44.12 | 49.36 | 2-449 | 71.12 | 76.36 | 2-466 | 171.12 | 176.36 | | | |
| 2-416 | 18.72 | 23.96 | 2-433 | 45.69 | 50.93 | 2-450 | 72.69 | 77.93 | 2-467 | 177.47 | 182.71 | | | |
| 2-417 | 20.30 | 25.54 | 2-434 | 47.29 | 52.53 | 2-451 | 75.87 | 81.11 | 2-468 | 183.82 | 189.06 | | | |
| 2-418 | 21.89 | 27.13 | 2-435 | 48.90 | 54.14 | 2-452 | 82.22 | 87.46 | 2-469 | 190.17 | 195.41 | | | |



| CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. |
|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|
| 2-201 | 4.34 | 11.40 | 2-218 | 31.34 | 38.40 | 2-235 | 78.97 | 86.03 | 2-252 | 132.94 | 140.00 | 2-269 | 221.84 | 228.90 |
| 2-202 | 5.94 | 13.00 | 2-219 | 32.92 | 39.98 | 2-236 | 82.14 | 89.20 | 2-253 | 136.12 | 143.18 | 2-270 | 228.19 | 235.25 |
| 2-203 | 7.52 | 14.58 | 2-220 | 34.52 | 41.58 | 2-237 | 85.32 | 92.38 | 2-254 | 139.29 | 146.35 | 2-271 | 234.54 | 241.60 |
| 2-204 | 9.12 | 16.18 | 2-221 | 36.09 | 43.15 | 2-238 | 88.49 | 95.55 | 2-255 | 142.47 | 149.53 | 2-272 | 240.89 | 247.95 |
| 2-205 | 10.69 | 17.75 | 2-222 | 37.69 | 44.75 | 2-239 | 91.67 | 98.73 | 2-256 | 145.64 | 152.70 | 2-273 | 247.24 | 254.30 |
| 2-206 | 12.29 | 19.35 | 2-223 | 40.87 | 47.93 | 2-240 | 94.84 | 101.90 | 2-257 | 148.82 | 155.88 | 2-274 | 253.59 | 260.65 |
| 2-207 | 13.87 | 20.93 | 2-224 | 44.04 | 51.10 | 2-241 | 98.02 | 105.08 | 2-258 | 151.99 | 159.05 | 2-275 | 266.29 | 273.35 |
| 2-208 | 15.47 | 22.53 | 2-225 | 47.22 | 54.28 | 2-242 | 101.19 | 108.25 | 2-259 | 158.34 | 165.40 | 2-276 | 278.99 | 286.05 |
| 2-209 | 17.04 | 24.10 | 2-226 | 50.39 | 57.45 | 2-243 | 104.37 | 111.43 | 2-260 | 164.69 | 171.75 | 2-277 | 291.69 | 298.75 |
| 2-210 | 18.64 | 25.70 | 2-227 | 53.57 | 60.63 | 2-244 | 107.54 | 114.60 | 2-261 | 171.04 | 178.10 | 2-278 | 304.39 | 311.45 |
| 2-211 | 20.22 | 27.28 | 2-228 | 56.74 | 63.80 | 2-245 | 110.72 | 117.78 | 2-262 | 177.39 | 184.45 | 2-279 | 329.79 | 337.85 |
| 2-212 | 21.82 | 28.88 | 2-229 | 59.92 | 66.98 | 2-246 | 113.89 | 120.95 | 2-263 | 183.74 | 190.80 | 2-280 | 355.19 | 362.25 |
| 2-213 | 23.39 | 30.45 | 2-230 | 63.09 | 70.15 | 2-247 | 117.07 | 124.13 | 2-264 | 190.09 | 197.15 | 2-281 | 380.59 | 387.65 |
| 2-214 | 24.99 | 32.05 | 2-231 | 66.27 | 73.33 | 2-248 | 120.24 | 127.30 | 2-265 | 196.44 | 203.50 | 2-282 | 405.26 | 412.32 |
| 2-215 | 26.57 | 33.63 | 2-232 | 69.44 | 76.50 | 2-249 | 123.42 | 130.48 | 2-266 | 202.79 | 209.85 | 2-283 | 430.66 | 437.72 |
| 2-216 | 28.17 | 35.23 | 2-233 | 72.62 | 79.68 | 2-250 | 126.59 | 133.65 | 2-267 | 209.14 | 216.20 | 2-284 | 456.06 | 463.12 |
| 2-217 | 29.74 | 36.80 | 2-234 | 75.79 | 82.85 | 2-251 | 129.77 | 136.83 | 2-268 | 215.49 | 222.55 | | | |



| CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. |
|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|--------|----------|----------|
| 2-309 | 10.46 | 21.12 | 2-327 | 43.82 | 54.48 | 2-345 | 100.97 | 111.63 | 2-363 | 164.47 | 175.13 | 2-381 | 304.17 | 314.83 |
| 2-310 | 12.07 | 22.73 | 2-328 | 46.99 | 57.65 | 2-346 | 104.14 | 114.80 | 2-364 | 170.82 | 181.48 | 2-382 | 329.57 | 340.23 |
| 2-311 | 13.64 | 24.30 | 2-329 | 50.17 | 60.83 | 2-347 | 107.32 | 117.98 | 2-365 | 177.17 | 187.83 | 2-383 | 354.97 | 365.63 |
| 2-312 | 15.24 | 25.90 | 2-330 | 53.34 | 64.00 | 2-348 | 110.49 | 121.15 | 2-366 | 183.52 | 194.18 | 2-384 | 380.37 | 391.03 |
| 2-313 | 16.81 | 27.47 | 2-331 | 56.52 | 67.18 | 2-349 | 113.67 | 124.33 | 2-367 | 189.87 | 200.53 | 2-385 | 405.26 | 415.92 |
| 2-314 | 18.42 | 29.08 | 2-332 | 59.69 | 70.35 | 2-350 | 116.84 | 127.50 | 2-368 | 196.22 | 206.88 | 2-386 | 430.66 | 441.32 |
| 2-315 | 19.99 | 30.65 | 2-333 | 62.87 | 73.53 | 2-351 | 120.02 | 130.68 | 2-369 | 202.57 | 213.33 | 2-387 | 456.06 | 466.72 |
| 2-316 | 21.59 | 32.25 | 2-334 | 66.04 | 76.70 | 2-352 | 123.19 | 133.85 | 2-370 | 208.92 | 219.58 | 2-388 | 481.41 | 492.07 |
| 2-317 | 23.16 | 33.82 | 2-335 | 69.22 | 79.88 | 2-353 | 126.37 | 137.03 | 2-371 | 215.27 | 225.93 | 2-389 | 506.81 | 517.47 |
| 2-318 | 24.77 | 35.43 | 2-336 | 72.39 | 83.05 | 2-354 | 129.54 | 140.20 | 2-372 | 221.62 | 232.28 | 2-390 | 532.21 | 542.87 |
| 2-319 | 26.34 | 37.00 | 2-337 | 75.57 | 86.23 | 2-355 | 132.72 | 143.38 | 2-373 | 227.97 | 238.63 | 2-391 | 557.61 | 568.27 |
| 2-320 | 27.94 | 38.60 | 2-338 | 78.74 | 89.40 | 2-356 | 135.89 | 146.55 | 2-374 | 234.32 | 244.98 | 2-392 | 582.68 | 593.34 |
| 2-321 | 29.51 | 40.17 | 2-339 | 81.92 | 92.58 | 2-357 | 139.07 | 149.73 | 2-375 | 240.67 | 251.33 | 2-393 | 608.08 | 618.74 |
| 2-322 | 31.12 | 41.78 | 2-340 | 85.09 | 95.75 | 2-358 | 142.24 | 152.90 | 2-376 | 247.02 | 257.68 | 2-394 | 633.48 | 644.14 |
| 2-323 | 32.69 | 43.35 | 2-341 | 88.27 | 98.93 | 2-359 | 145.42 | 156.08 | 2-377 | 253.37 | 264.03 | 2-395 | 658.88 | 669.54 |
| 2-324 | 34.29 | 44.95 | 2-342 | 91.44 | 102.10 | 2-360 | 148.59 | 159.25 | 2-378 | 266.07 | 276.73 | | | |
| 2-325 | 37.47 | 48.13 | 2-343 | 94.62 | 105.28 | 2-361 | 151.77 | 162.43 | 2-379 | 278.77 | 289.43 | | | |
| 2-326 | 40.64 | 51.30 | 2-344 | 97.79 | 108.45 | 2-362 | 158.12 | 168.78 | 2-380 | 291.47 | 302.13 | | | |



| CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. | CODIGO | D.I. mm. | D.E. mm. |
|--------|----------|----------|--------|----------|----------|--------|----------|----------|
| 2-425 | 113.67 | 127.65 | 2-442 | 183.52 | 197.50 | 2-459 | 380.37 | 394.35 |
| 2-426 | 116.84 | 130.82 | 2-443 | 189.87 | 203.85 | 2-460 | 393.07 | 407.05 |
| 2-427 | 120.02 | 134.00 | 2-444 | 196.22 | 210.20 | 2-461 | 405.26 | 419.24 |
| 2-428 | 123.19 | 137.17 | 2-445 | 202.57 | 216.55 | 2-462 | 417.96 | 431.94 |
| 2-429 | 126.37 | 140.35 | 2-446 | 215.27 | 229.25 | 2-463 | 430.66 | 444.64 |
| 2-430 | 129.54 | 143.52 | 2-447 | 227.97 | 241.95 | 2-464 | 443.36 | 457.34 |
| 2-431 | 132.72 | 146.70 | 2-448 | 240.67 | 254.65 | 2-465 | 456.06 | 470.04 |
| 2-432 | 135.89 | 149.87 | 2-449 | 253.37 | 267.35 | 2-466 | 468.76 | 482.74 |
| 2-433 | 139.07 | 153.05 | 2-450 | 266.07 | 280.05 | 2-467 | 481.46 | 495.44 |
| 2-434 | 142.24 | 156.22 | 2-451 | 278.77 | 292.75 | 2-468 | 494.16 | 508.14 |
| 2-435 | 145.42 | 159.40 | 2-452 | 291.47 | 305.45 | 2-469 | 506.86 | 520.84 |
| 2-436 | 148.59 | 162.57 | 2-453 | 304.17 | 318.85 | 2-470 | 532.26 | 546.24 |
| 2-437 | 151.77 | 165.75 | 2-454 | 316.87 | 330.85 | 2-471 | 557.66 | 571.64 |
| 2-438 | 158. | | | | | | | |

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