



Articulaciones para Cilindro



**Horquilla I
Macho**

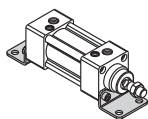


**Horquilla
Hembra Y**

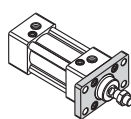


Rótula

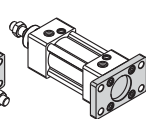
Tipos de Montaje



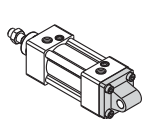
LB



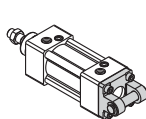
FA



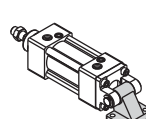
FB



CA



CB



CR

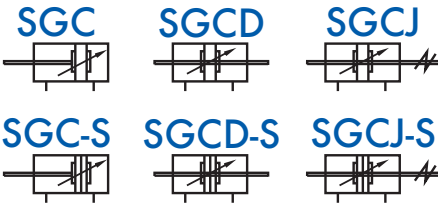
Fuerza de Trabajo

Unidad: Newton(N)

| Ø Cilindro (mm) | Ø Vástago (mm) | Tipo de Accionamiento | Área de Émbolo (mm ²) | Presión de Trabajo (MPa) | | | | | | | | | |
|-----------------|----------------|-----------------------|-----------------------------------|--------------------------|--------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | |
| 125 | 32 | Doble Efecto | Avance | 12272 | 1227.2 | 2454.4 | 3681.6 | 4908.8 | 6136.0 | 7363.2 | 8590.4 | 9817.6 | 11044.8 |
| | | Retorno | 11468 | 1146.8 | 2293.6 | 3440.4 | 4587.2 | 5734.0 | 6880.8 | 8027.6 | 9174.4 | 10321.2 | |
| 160 | 40 | Doble Efecto | Avance | 20106 | 2010.6 | 4021.2 | 6031.8 | 8042.4 | 10053.0 | 12063.6 | 14074.2 | 16084.8 | 18095.4 |
| | | Retorno | 18849 | 1884.9 | 3769.8 | 5654.7 | 7539.6 | 9424.5 | 11309.4 | 13194.3 | 15079.2 | 16964.1 | |
| 200 | 40 | Doble Efecto | Avance | 31416 | 3141.6 | 6283.2 | 9424.8 | 12566.4 | 15708.0 | 18849.6 | 21991.2 | 25132.8 | 28274.4 |
| | | Retorno | 30157 | 3015.7 | 6031.4 | 9047.1 | 12062.8 | 15078.5 | 18094.2 | 21109.9 | 24125.6 | 27141.3 | |
| 250 | 50 | Doble Efecto | Avance | 49086 | 4908.6 | 9817.2 | 14725.8 | 19634.4 | 24543.0 | 29451.6 | 34360.2 | 39268.8 | 44177.4 |
| | | Retorno | 47123 | 4712.3 | 9620.9 | 14333.2 | 19045.5 | 23757.8 | 28470.1 | 33182.4 | 37894.7 | 42607.0 | |



Simbología



Especificaciones SGC

| Ø Cilindro (mm) | | 125 | 160 | 200 | 250 |
|---|--|---|--|-----|-----|
| Tipo de Accionamiento | | Doble Efecto | | | |
| Fluido | | Aire (filtrado a 40 µm) | | | |
| Tipo de Montaje | | SGC | Básico: FA FB CA CB CR LB TC FTC TCM1 TCM2 | | |
| | | SGCD SGCJ | Básico: FA LB TC FTC TCM1 TCM2 | | |
| Presión de Trabajo | | 0.15 - 1.0 MPa (22 - 145 psi) (1.5 - 10.0 bar) | | | |
| Presión de Prueba | | 1.5 MPa (215 psi) (15 bar) | | | |
| Temperatura °C | | -20 a 70 | | | |
| Velocidad mm/s | | 30 - 500 | | | |
| Tolerancia de Carrera | | 0 - 250 ^{+1.0} ₀ 251 - 1000 ^{+1.5} ₀ 1001 - 1500 ^{+2.0} ₀ | | | |
| Tipo de Amortiguación | | Amortiguación Variable | | | |
| Carrera de amortiguación ajustable | | 40 | 50 | 60 | |
| Tamaño de Puerto | | 1/2" | 3/4" | 1" | |
| TPU Sellos Normal -5 a 80 °C | | | | | |
| NBR Sellos Viton Maximo 180 °C (Recomendado Hasta 120 °C) | | | | | |

Cómo Ordenar

SGC 125 x 50 S

SGCD 125 x 50 S

SGCJ 125 x 50 - 20 S

① ② ③ ④ ⑤ ⑥

| ① Modelo | ② Diámetro | ③ Carrera | ④ Ajuste de Carrera | ⑤ Imán | ⑥ Opciones |
|-------------------------|------------|--|---------------------|-------------|--------------------------------------|
| SGC:Doble Efecto | 125 | Tomar referencia de tabla Límites de Carrera | SGC:Vacio | S: Con Imán | Vacio: TPU |
| SGCD: Doble Vástgo | 160 | | SGCD: Vacío | | HT: Alta Temperatura |
| SGCJ: Carrera Ajustable | 200 | | SGCJ: | | SR: Rosca especial |
| | 260 | | 10 | | SSR: Vástago de Acero Inoxidable 304 |
| | | | 20 | | EXV: Extensión de vástago |
| | | | 30 | | EXC: Extensión de cuerda |
| | | | 40 | | AG: Anti Giro |
| | | | 50 | | TC: Trunion |
| | | | 75 | | |
| | | | 100 | | |

Material Vástago

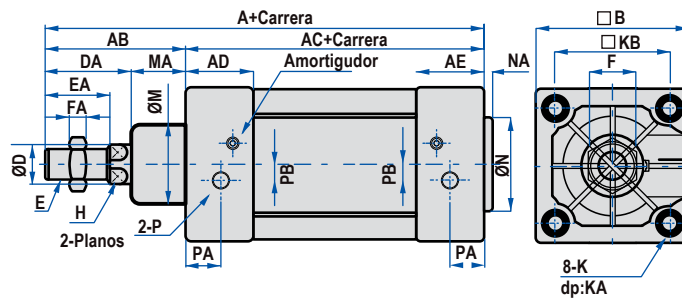
Acero al Carbón 1045

20 micras de cromo

| Tipo de Montaje | |
|-----------------|-------|
| SGC: | Vacio |
| | LB |
| | FA |
| | FB |
| | CA |
| | CB |
| | CR |
| SGCD SGCJ | Vacio |
| | LB |
| | FA |
| | FTC |
| | TC |
| | |
| | |

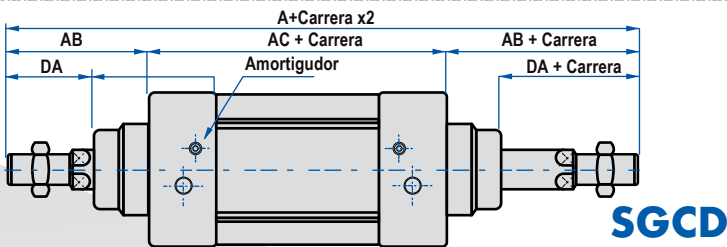
Límites de Carrera

| Ø Cilindro (mm) | Carrera Estándar (mm) | | | | | | | | | | | | | | | | | | | | Máxima Carrera Estándar | Máxima Carrera | |
|-----------------|-----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|----------------|------|
| | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | | | 1000 |
| 125 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 1800 |
| 160 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |
| 200 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |
| 250 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |

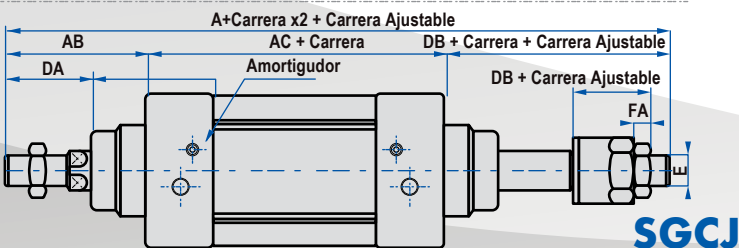


Dimensiones SGC

| Ø Cilindro (mm) | A | AB | AC | AD | AE | B | D | DA | E | EA | F | FA | H | K | KA | KB | M | MA | N | NA | P | PA | PB |
|-----------------|-----|-----|-----|----|----|-----|----|-----|---------|----|----|------|----|-----|----|-----|----|----|----|----|------|----|----|
| 125 | 279 | 119 | 160 | 46 | 46 | 140 | 32 | 74 | M27x2.0 | 54 | 41 | 13.5 | 27 | M12 | 31 | 110 | 60 | 45 | 60 | 4 | 1/2" | 23 | 14 |
| 160 | 332 | 152 | 180 | 50 | 50 | 180 | 40 | 94 | M36x2.0 | 72 | 55 | 18 | 36 | M16 | 30 | 140 | 65 | 58 | 65 | 4 | 3/4" | 25 | 15 |
| 200 | 347 | 167 | 180 | 50 | 50 | 220 | 40 | 100 | M36x2.0 | 72 | 55 | 18 | 36 | M16 | 30 | 175 | 75 | 67 | 75 | 5 | 3/4" | 25 | 15 |
| 250 | 389 | 189 | 200 | 58 | 58 | 282 | 50 | 111 | M42x2.0 | 84 | 65 | 21 | 46 | M20 | 35 | 220 | 90 | 78 | 90 | 8 | 1" | 31 | 22 |



SGCD



SGCJ

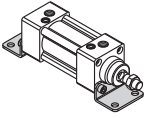
Dimensiones SGCD Doble Vástago SGCJ Ajuste de Carrera

| Ø Cilindro (mm) | A | | AB | AC | DA | DB | E | FA |
|-----------------|------|-------|-----|-----|-----|------|---------|------|
| | SGCD | SGCJ | | | | | | |
| 125 | 398 | 366.5 | 119 | 160 | 74 | 42.5 | M27X2.0 | 13.5 |
| 160 | 484 | 458 | 152 | 180 | 94 | 68 | M36X2.0 | 18 |
| 200 | 514 | 482 | 167 | 180 | 100 | 68 | M36X2.0 | 18 |
| 250 | 578 | 547 | 189 | 200 | 111 | 80 | M42X2.0 | 21 |

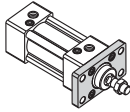
Montajes

Códigos de Accesorios Montajes

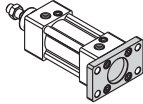
LB



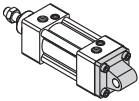
FA



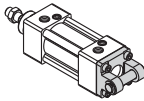
FB



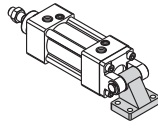
CA



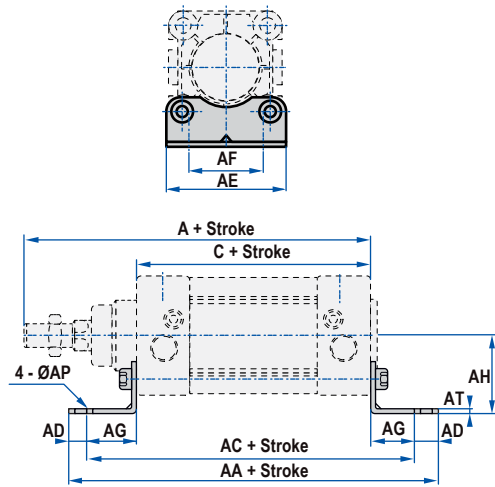
CB



CR

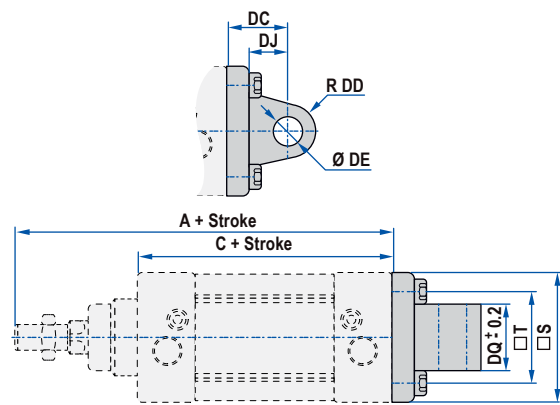


| Ø Cilindro (mm) | Accesorios de Montaje | | | | |
|-----------------|-----------------------|-----------|-----------|-----------|-----------|
| | LB | FA / FB | CA | CB | CR |
| 125 | F-SI125LB | F-SI125FA | F-SE125CA | F-SE125CB | F-SI125CR |
| 160 | F-SI160LB | F-SI160FA | F-SI160CA | F-SI160CB | F-SI160CR |
| 200 | F-SI200LB | F-SI200FA | F-SI200CA | F-SI200CB | F-SI200CR |
| 250 | F-SG250LB | F-SG250FA | F-SG250CA | F-SG250CB | |



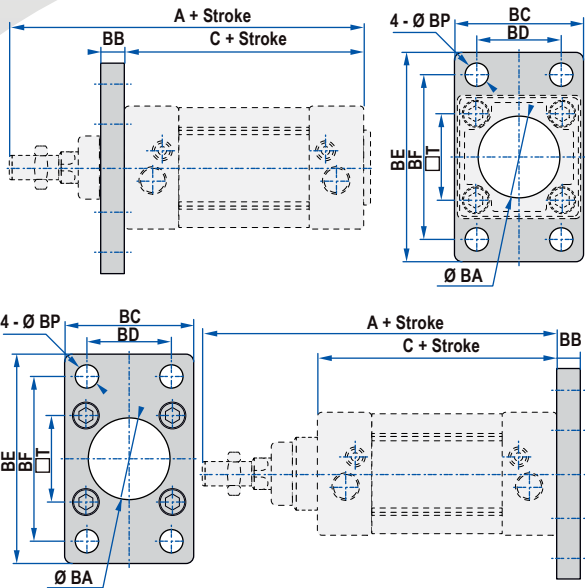
Dimensiones LB

| Ø Cilindro (mm) | A | C | AA | AC | AD | AE | AF | AG | AH | AP | AT |
|-----------------|-----|-----|-----|-----|----|-----|-----|----|-----|------|----|
| 125 | 279 | 160 | 290 | 250 | 20 | 140 | 90 | 45 | 90 | 16.5 | 8 |
| 160 | 332 | 180 | 340 | 300 | 20 | 180 | 115 | 60 | 115 | 18.5 | 8 |
| 200 | 347 | 180 | 380 | 320 | 30 | 220 | 135 | 70 | 135 | 24 | 9 |
| 250 | 389 | 200 | 410 | 350 | 30 | 275 | 165 | 75 | 165 | 28 | 19 |



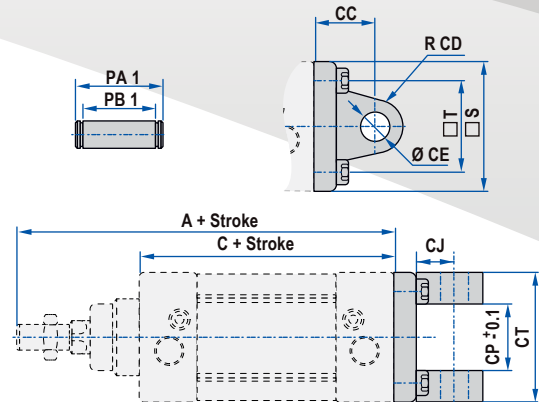
Dimensiones CA

| Ø Cilindro (mm) | A | C | S | T | DC | DD | DE | DJ | DQ |
|-----------------|-----|-----|-----|-----|----|----|----|------|-------|
| 125 | 279 | 160 | 139 | 110 | 50 | 22 | 25 | 33 | 69.7 |
| 160 | 332 | 180 | 180 | 140 | 55 | 30 | 30 | 35.5 | 89.7 |
| 200 | 347 | 180 | 220 | 175 | 60 | 30 | 30 | 37 | 89.7 |
| 250 | 389 | 200 | 270 | 220 | 70 | 35 | 40 | 46 | 109.5 |



Dimensiones FA / FB

| Ø Cilindro (mm) | A | C | BA | BB | BC | BD | BE | BF | BP | T |
|-----------------|-----|-----|------|----|-----|-----|-----|-----|------|-----|
| 125 | 279 | 160 | 60.5 | 20 | 139 | 90 | 218 | 180 | 16.5 | 110 |
| 160 | 332 | 180 | 65.5 | 20 | 180 | 115 | 280 | 230 | 18.5 | 140 |
| 200 | 347 | 180 | 75.5 | 25 | 220 | 135 | 320 | 270 | 24 | 175 |
| 250 | 389 | 200 | 90.5 | 25 | 267 | 165 | 376 | 330 | 26 | 220 |

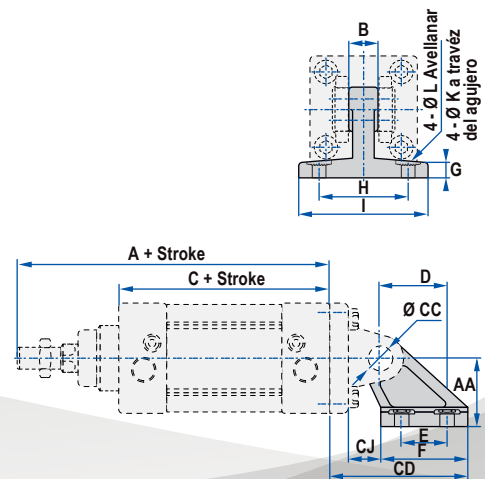


Dimensiones CB

| Ø Cilindro (mm) | A | C | CC | CD | CE | CJ | CP | CT | PA1 | PB1 | S | T |
|-----------------|-----|-----|----|------|----|------|-------|-----|-----|-------|-----|-----|
| 125 | 279 | 160 | 50 | 21.5 | 25 | 31 | 70 | 130 | 139 | 130.5 | 134 | 110 |
| 160 | 332 | 180 | 55 | 30 | 30 | 35.5 | 90 | 170 | 181 | 170.5 | 180 | 140 |
| 200 | 347 | 180 | 60 | 30 | 30 | 36 | 90 | 170 | 181 | 170.5 | 220 | 175 |
| 250 | 389 | 200 | 70 | 35 | 40 | 46 | 110.3 | 200 | 230 | 208 | 270 | 220 |

Dimensiones CR

| Ø Cilindro (mm) | A | AA | B | C | CC | CD | CJ | D | E | F | G | H | I | K | L |
|-----------------|-----|-----|----|-----|----|-----|------|-----|----|-----|----|-----|-----|------|----|
| 125 | 279 | 90 | 70 | 160 | 25 | 134 | 29 | 70 | 60 | 88 | 20 | 94 | 122 | 13.5 | 20 |
| 160 | 332 | 115 | 90 | 180 | 30 | 171 | 25.5 | 97 | 88 | 126 | 25 | 118 | 156 | 13.5 | 20 |
| 200 | 347 | 135 | 90 | 180 | 30 | 185 | 31 | 105 | 90 | 130 | 30 | 122 | 162 | 18 | 26 |



Articulaciones

Códigos de Accesorios Articulaciones para Cilindros



Horquilla I Macho



Horquilla Y Hembra

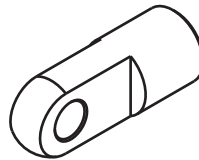


Junta Flotante



Rótula

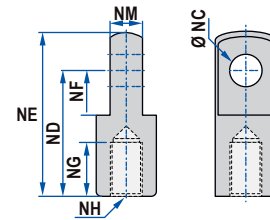
| Ø Cilindro (mm) | Horquillas | | Sensor Switch | |
|-----------------|------------|------------|---------------|---------|
| | I | Y | CMSG | DMSG(S) |
| 125 | F-M27x200I | F-M27x200Y | CMSG | DMSG(S) |
| 160 | F-M36x200I | F-M36x200Y | | |
| 200 | F-M36x200I | F-M36x200Y | | |
| 250 | F-M42x200I | F-M42x200Y | | |



Horquilla I Macho

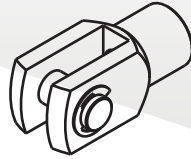
Cómo Ordenar

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|----------------------|
| F | M27 | 125: 1.25mm | I: Horquilla I Macho |
| | M36 | 150: 1.5mm | |
| | M42 | | |
| | | 200: 2.0mm | |



Dimensiones

| Item | NC | ND | NE | NF | NG | NH | NM |
|------------|----|-----|-----|----|----|---------|----|
| F-M27x200I | 30 | 110 | 139 | 51 | 45 | M27x2.0 | 30 |
| F-M36x200I | 35 | 144 | 181 | 65 | 55 | M36x2.0 | 35 |
| F-M42x200I | 40 | 168 | 211 | 85 | 62 | M42x2.0 | 40 |



Horquilla Hembra Y

Cómo Ordenar

| | | | | | | |
|--------------------|---------------------|-------------|-----------------------|-----|----------|--|
| | F | M16 | x | 150 | Y | |
| | ① | ② | ③ | ④ | | |
| ① Código Accesorio | ② Rosca de Tornillo | | ③ Paso de Rosca | | ④ Código | |
| | M27 | 125: 1.25mm | Y: Horquilla Y Hembra | | | |
| | M36 | | | | | |
| | M42 | 150: 1.5mm | | | | |
| | | 200: 2.0mm | | | | |

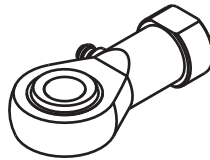
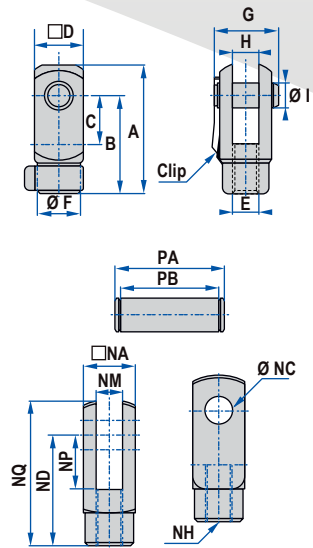
Dimensiones

| Item | A | B | C | D | F |
|------------|----|----|----|----|----|
| F-M10x125Y | 52 | 40 | 20 | 19 | 18 |

| Item | E | G | H | I |
|------------|----------|----|----|----|
| F-M10x125Y | M10x1.25 | 25 | 10 | 10 |

| Item | NA | NC | ND | NP | NQ |
|------------|----|----|-----|----|-----|
| F-M27x200Y | 54 | 30 | 110 | 55 | 139 |
| F-M36x200Y | 70 | 35 | 144 | 73 | 179 |
| F-M42x200Y | 85 | 40 | 168 | 86 | 211 |

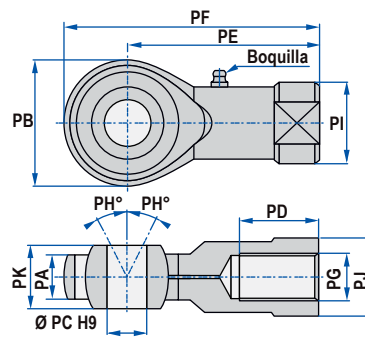
| Item | NM | NH | PA | PB |
|------------|------|---------|------|------|
| F-M27x200Y | 30 | M27x2.0 | 64.2 | 54.8 |
| F-M36x200Y | 35 | M36x2.0 | 80.2 | 70.8 |
| F-M42x200Y | 40.3 | M42x2.0 | 115 | 93 |



Rótula U

Cómo Ordenar

| | | | | | | |
|--------------------|---------------------|-------------|-----------------|-----|----------|--|
| | F | M10 | x | 125 | U | |
| | ① | ② | ③ | ④ | | |
| ① Código Accesorio | ② Rosca de Tornillo | | ③ Paso de Rosca | | ④ Código | |
| | M10 | 125: 1.25mm | U: Rótula | | | |
| | M12 | | | | | |
| | M16 | 150: 1.5mm | | | | |
| | M20 | 200: 2.0mm | | | | |
| | M27 | | | | | |
| | M36 | | | | | |



Dimensiones

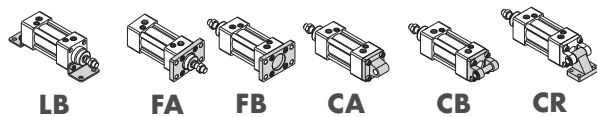
| Item | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK |
|------------|------|----|----|----|-----|-----|---------|----|------|----|----|
| F-M27x200U | 25 | 70 | 30 | 51 | 110 | 145 | M27x2.0 | 15 | 50 | 41 | 37 |
| F-M36x200U | 27.5 | 80 | 35 | 56 | 125 | 165 | M36x2.0 | 15 | 57.5 | 50 | 43 |



Articulaciones para Cilindro



Tipos de Montaje



Fuerza de Trabajo

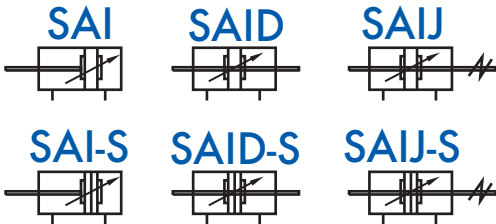
Unidad: Newton(N)

| Ø Cilindro (mm) | Ø Vástago (mm) | Tipo de Accionamiento | Área de Émbolo (mm ²) | Presión de Trabajo (MPa) | | | | | | | | | |
|-----------------|----------------|-----------------------|-----------------------------------|--------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | |
| 32 | 12 | Doble Efecto | Avance | 804 | 80.4 | 160.8 | 241.2 | 321.6 | 402.0 | 482.4 | 562.8 | 643.2 | 723.6 |
| | | Retorno | 690 | 69.0 | 138.0 | 207.0 | 276.0 | 345.0 | 414.0 | 483.0 | 552.0 | 621.0 | |
| 40 | 16 | Doble Efecto | Avance | 1256 | 125.6 | 251.2 | 376.8 | 502.4 | 628.0 | 753.6 | 879.2 | 1002.4 | 1130.4 |
| | | Retorno | 1055 | 105.5 | 211.0 | 316.5 | 422.0 | 527.5 | 633.0 | 738.5 | 844.0 | 949.5 | |
| 50 | 20 | Doble Efecto | Avance | 1963 | 196.3 | 392.6 | 588.9 | 785.2 | 981.5 | 1177.8 | 1374.1 | 1570.4 | 1766.7 |
| | | Retorno | 1649 | 164.9 | 329.8 | 494.7 | 659.6 | 824.5 | 989.4 | 1154.3 | 1399.2 | 1484.1 | |
| 63 | 20 | Doble Efecto | Avance | 3117 | 311.7 | 623.4 | 935.1 | 1246.8 | 1558.5 | 1870.2 | 2181.9 | 2493.6 | 2805.3 |
| | | Retorno | 2803 | 280.3 | 560.6 | 840.9 | 1121.2 | 1401.5 | 1681.8 | 1962.1 | 2242.4 | 2522.7 | |
| 80 | 25 | Doble Efecto | Avance | 5026 | 502.6 | 1005.2 | 1507.8 | 2010.4 | 2513.0 | 3015.6 | 3518.2 | 4020.8 | 4523.4 |
| | | Retorno | 4536 | 453.6 | 907.2 | 1360.8 | 1814.4 | 2268.0 | 2721.6 | 3175.2 | 3628.8 | 4082.4 | |
| 100 | 25 | Doble Efecto | Avance | 7853 | 785.3 | 1570.6 | 2355.9 | 3141.2 | 3926.5 | 4711.8 | 4288.2 | 6282.4 | 7067.7 |
| | | Retorno | 7362 | 736.2 | 1472.4 | 2208.6 | 2948.6 | 3681.0 | 4417.2 | 5153.4 | 5889.6 | 6625.8 | |
| 125 | 32 | Doble Efecto | Avance | 12272 | 1227.2 | 2454.4 | 3681.6 | 4908.8 | 6136.0 | 7363.2 | 8590.4 | 9817.6 | 11044.8 |
| | | Retorno | 11468 | 1146.8 | 2293.6 | 3440.4 | 4587.2 | 5734.0 | 6880.8 | 8027.6 | 9174.4 | 10321.2 | |
| 160 | 40 | Doble Efecto | Avance | 20106 | 2010.6 | 4021.2 | 6031.8 | 8042.4 | 10053.0 | 12063.6 | 14074.2 | 16084.8 | 18095.4 |
| | | Retorno | 18849 | 1884.9 | 3769.8 | 5654.7 | 7539.6 | 9424.5 | 11309.4 | 13194.3 | 15079.2 | 16964.1 | |
| 200 | 40 | Doble Efecto | Avance | 31416 | 3141.6 | 6283.2 | 9424.8 | 12566.4 | 15708.0 | 18849.6 | 21991.2 | 25132.8 | 28274.4 |
| | | Retorno | 30157 | 3015.7 | 6031.4 | 9047.1 | 12062.8 | 15078.5 | 18094.2 | 21109.9 | 24125.6 | 27141.3 | |



Especificaciones SAI

Simbología



| Ø Cilindro (mm) | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
|---|---|--|------|------|------|-----|----------|-----|-----|
| Tipo de Accionamiento | Doble Efecto | | | | | | | | |
| Fluido | Aire (filtrado a 40 µm) | | | | | | | | |
| Tipo de Montaje | SAI | Básico: FA FB CA CB CR LB TC FTC TCM1 TCM2 | | | | | | | |
| | SAID SAIJ | Básico: FA LB TC FTC TCM1 TCM2 | | | | | | | |
| Presión de Trabajo | 0.15 - 1.0 MPa (22 - 145 psi) (1.5 - 10.0 bar) | | | | | | | | |
| Presión de Prueba | 1.5 MPa (215 psi) (15 bar) | | | | | | | | |
| Temperatura °C | -20 a 70 | | | | | | | | |
| Velocidad mm/s | 30 - 800 | | | | | | 30 - 500 | | |
| Tolerancia de Carrera | 0 - 250 ^{+1.0} ₀ 251 - 1000 ^{+1.5} ₀ 1001 - 1500 ^{+2.0} ₀ | | | | | | | | |
| Tipo de Amortiguación | Amortiguación Variable | | | | | | | | |
| Carrera de amortiguación ajustable | 27 | 30 | 36 | 40 | 50 | | | | |
| Tamaño de Puerto | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | | | | |
| TPU Sellos Normal -5 a 80 °C | | | | | | | | | |
| NBR Sellos Viton Maximo 180 °C (Recomendado Hasta 120 °C) | | | | | | | | | |

Cómo Ordenar

SAI 160 x 50 S □
 SAID 160 x 50 S □
 SAIJ 160 x 50 - 20 S □

① Modelo ② Diámetro ③ Carrera ④ Ajuste de Carrera ⑤ Imán ⑥ Opciones

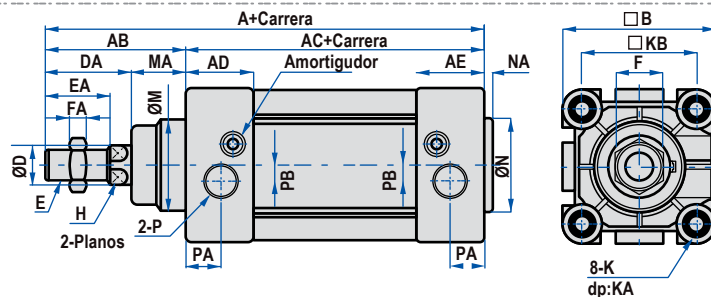
| | | | | | |
|-------------------------|-----|--|-----|-------------|---|
| SAI: Doble Efecto | 32 | Tomar referencia de tabla Límites de Carrera | 10 | S: Con Imán | Vacio: TPU HT: Alta Temperatura SR: Rosca especial SSR: Vástago de Acero Inoxidable 304 EXV: Extensión de vástago EXC: Extensión de cuerda AG: Anti Giro TC: Trunion |
| SAID: Doble Vástago | 40 | | 20 | | |
| SAIJ: Carrera Ajustable | 50 | | 30 | | |
| | 80 | | 40 | | |
| | 100 | | 50 | | |
| | 125 | 75 | 100 | | |

Material Vástago
Acero al Carbón 1045
20 micras de cromo

| Tipo de Montaje | SAI: | SAID | SAIJ |
|-----------------|------|------|------|
| Vacio | | | |
| LB | | | |
| FA | | | |
| FB | | | |
| CA | | | |
| CB | | | |
| CR | | | |
| FTC | | | |
| TC | | | |

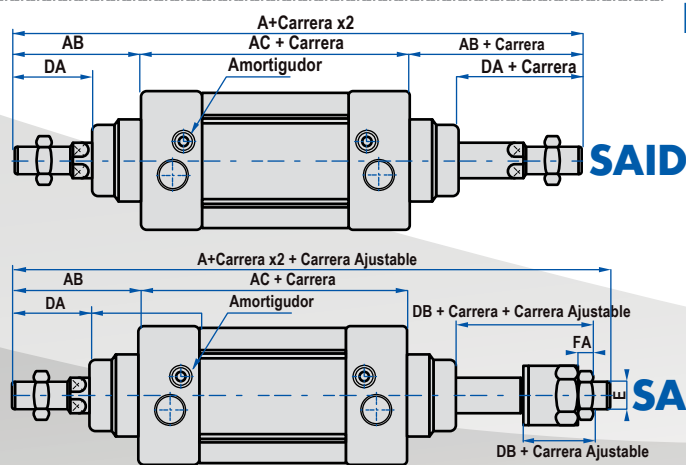
Límites de Carrera

| Ø Cilindro (mm) | Carrera Estándar (mm) | | | | | | | | | | | | | | | | | | | Máxima Carrera Estándar | Máxima Carrera | | |
|-----------------|-----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|----------------|------|------|
| | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | | | 900 | 1000 |
| 32 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | | | | | 1000 | 1800 |
| 40 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | | | 1200 | 1800 |
| 50 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 1800 |
| 63 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 1800 |
| 80 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 1800 |
| 100 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 1800 |
| 125 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 1800 |
| 160 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |
| 200 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |



Dimensiones SAI

| Ø Cilindro (mm) | A | AB | AC | AD | AE | B | D | DA | E | EA | F | FA | H | K | KA | KB | M | MA | NA | N | P | PA | PB |
|-----------------|-----|-----|-----|------|------|-----|----|-----|------------|----|----|------|----|------------|----|------|----|----|-----|----|------|------|-----|
| 32 | 142 | 48 | 94 | 27.5 | 27.5 | 47 | 12 | 29 | M10 x 1.25 | 22 | 17 | 6 | 10 | M6 x 1 | 16 | 32.5 | 30 | 19 | 3 | 30 | 1/8" | 13 | 5.5 |
| 40 | 159 | 54 | 105 | 32 | 32 | 53 | 16 | 33 | M12 x 1.25 | 24 | 17 | 7 | 13 | M6 x 1 | 17 | 38 | 35 | 21 | 3.5 | 35 | 1/4" | 17 | 6 |
| 50 | 175 | 69 | 106 | 31 | 31 | 65 | 20 | 42 | M16 x 1.5 | 32 | 23 | 8 | 17 | M8 x 1.25 | 17 | 46.5 | 40 | 27 | 3.5 | 40 | 1/4" | 15.5 | 7.5 |
| 63 | 190 | 69 | 121 | 33 | 33 | 75 | 20 | 42 | M16 x 1.5 | 32 | 23 | 8 | 17 | M8 x 1.25 | 17 | 56.5 | 45 | 27 | 4 | 45 | 3/8" | 16.5 | 7.5 |
| 80 | 214 | 86 | 128 | 33 | 33 | 95 | 25 | 53 | M20 x 1.5 | 40 | 26 | 10 | 22 | M10 x 1.5 | 19 | 72 | 45 | 33 | 4 | 45 | 3/8" | 16.5 | 9 |
| 100 | 229 | 91 | 138 | 37 | 37 | 115 | 25 | 55 | M20 x 1.5 | 40 | 26 | 10 | 22 | M10 x 1.5 | 19 | 89 | 55 | 36 | 4 | 55 | 1/2" | 18.5 | 9.5 |
| 125 | 279 | 119 | 160 | 46 | 46 | 140 | 32 | 74 | M27 x 2 | 54 | 41 | 13.5 | 27 | M12 x 1.75 | 22 | 110 | 60 | 45 | 4 | 60 | 1/2" | 23 | 14 |
| 160 | 332 | 152 | 180 | 50 | 50 | 180 | 40 | 94 | M36 x 2 | 72 | 55 | 18 | 36 | M16 x 1.5 | 30 | 140 | 65 | 58 | 4 | 65 | 3/4" | 25 | 15 |
| 200 | 347 | 167 | 180 | 50 | 50 | 220 | 40 | 100 | M36 x 2 | 72 | 55 | 18 | 36 | M16 x 1.75 | 30 | 175 | 75 | 67 | 5 | 75 | 3/4" | 25 | 15 |

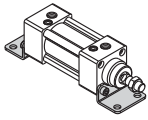


Dimensiones SAID Doble Vástago SAIJ Ajuste de Carrera

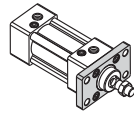
| Ø Cilindro (mm) | A | | AB | AC | DA | DB | E | FA |
|-----------------|------|-------|-----|-----|-----|------|----------|------|
| | SAID | SAIJ | | | | | | |
| 32 | 190 | 188 | 48 | 94 | 29 | 27 | M10X1.25 | 6 |
| 40 | 213 | 208 | 54 | 105 | 33 | 28 | M12X1.25 | 7 |
| 50 | 244 | 231 | 69 | 106 | 42 | 29 | M16X1.5 | 8 |
| 63 | 259 | 246 | 69 | 121 | 42 | 29 | M16X1.5 | 8 |
| 80 | 300 | 282.5 | 86 | 128 | 53 | 35.5 | M20X1.5 | 10 |
| 100 | 320 | 300.5 | 91 | 138 | 55 | 35.5 | M20X1.5 | 10 |
| 125 | 398 | 366.5 | 119 | 160 | 74 | 42.5 | M27X2.0 | 13.5 |
| 160 | 484 | 458 | 152 | 180 | 94 | 68 | M36X2.0 | 18 |
| 200 | 514 | 482 | 167 | 180 | 100 | 68 | M36X2.0 | 18 |

Montajes

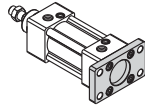
LB



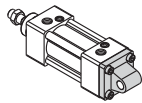
FA



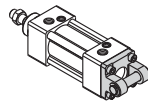
FB



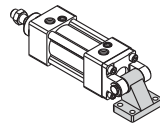
CA



CB

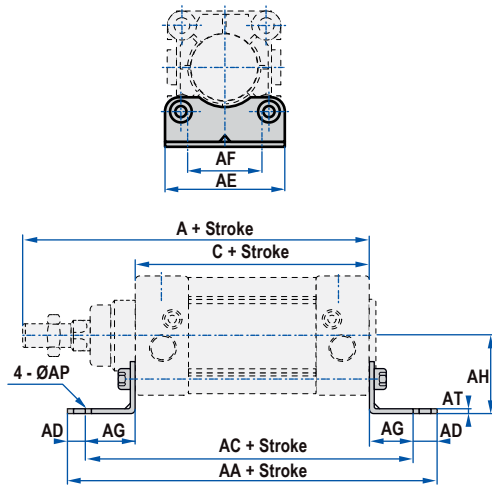


CR



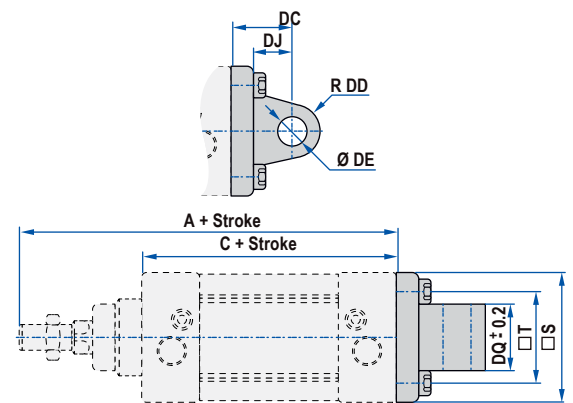
Códigos de Accesorios Montajes

| Ø Cilindro (mm) | Accesorios de Montaje | | | | |
|-----------------|-----------------------|-----------|-----------|-----------|-----------|
| | LB | FA / FB | CA | CB | CR |
| 32 | F-SI32LB | F-SI32FA | F-SE32CA | F-SE32CB | F-SI32CR |
| 40 | F-SI40LB | F-SI40FA | F-SE40CA | F-SE40CB | F-SI40CR |
| 50 | F-SI50LB | F-SI50FA | F-SE50CA | F-SE50CB | F-SI50CR |
| 63 | F-SI63LB | F-SI63FA | F-SE63CA | F-SE63CB | F-SI63CR |
| 80 | F-SI80LB | F-SI80FA | F-SE80CA | F-SE80CB | F-SI80CR |
| 100 | F-SI100LB | F-SI100FA | F-SE100CA | F-SE100CB | F-SI100CR |
| 125 | F-SI125LB | F-SI125FA | F-SE125CA | F-SE125CB | F-SI125CR |
| 160 | F-SI160LB | F-SI160FA | F-SI160CA | F-SI160CB | F-SI160CR |
| 200 | F-SI200LB | F-SI200FA | F-SI200CA | F-SI200CB | F-SI200CR |



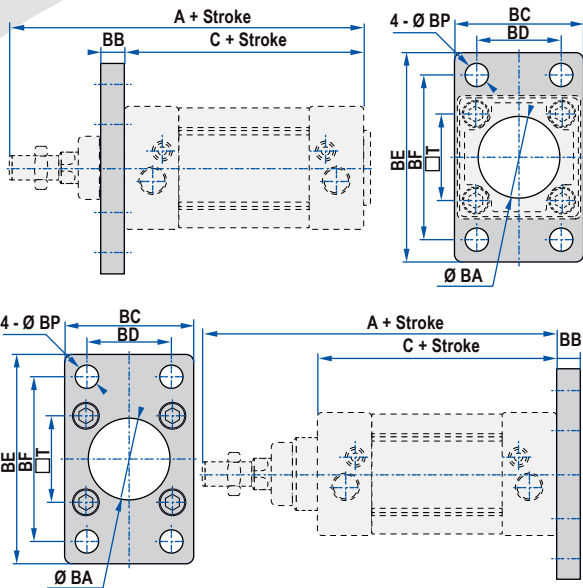
Dimensiones LB

| Ø Cilindro (mm) | A | C | AA | AC | AD | AE | AF | AG | AH | AP | AT |
|-----------------|-----|-----|-----|-----|----|-----|-----|----|-----|------|----|
| 32 | 142 | 94 | 158 | 142 | 8 | 47 | 32 | 24 | 32 | 7 | 3 |
| 40 | 159 | 105 | 179 | 161 | 9 | 53 | 36 | 28 | 36 | 9 | 3 |
| 50 | 175 | 106 | 190 | 170 | 10 | 65 | 45 | 32 | 45 | 9 | 3 |
| 63 | 190 | 121 | 209 | 185 | 12 | 75 | 50 | 32 | 50 | 9 | 3 |
| 80 | 214 | 128 | 248 | 210 | 19 | 95 | 63 | 41 | 63 | 12.5 | 4 |
| 100 | 229 | 138 | 266 | 220 | 19 | 115 | 75 | 41 | 71 | 14.5 | 4 |
| 125 | 279 | 160 | 290 | 250 | 20 | 140 | 90 | 45 | 90 | 16.5 | 8 |
| 160 | 332 | 180 | 340 | 300 | 20 | 180 | 115 | 60 | 115 | 18.5 | 8 |
| 200 | 347 | 180 | 380 | 320 | 30 | 220 | 135 | 70 | 135 | 24 | 9 |



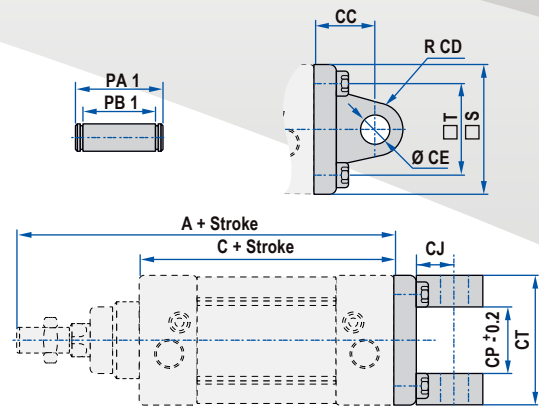
Dimensiones CA

| Ø Cilindro (mm) | A | C | S | T | DC | DD | DE | DJ | DQ |
|-----------------|-----|-----|-----|------|----|------|----|------|------|
| 32 | 142 | 94 | 47 | 32.5 | 22 | 9 | 10 | 13 | 25.8 |
| 40 | 159 | 105 | 52 | 38 | 25 | 10.5 | 12 | 16 | 27.8 |
| 50 | 175 | 106 | 64 | 46.5 | 27 | 11 | 12 | 17 | 31.7 |
| 63 | 190 | 121 | 74 | 56.5 | 32 | 13.5 | 16 | 22 | 39.7 |
| 80 | 214 | 128 | 94 | 72 | 36 | 14.5 | 16 | 22 | 49.7 |
| 100 | 229 | 138 | 113 | 89 | 41 | 17 | 20 | 27 | 59.7 |
| 125 | 279 | 160 | 139 | 110 | 50 | 22 | 25 | 33 | 69.7 |
| 160 | 332 | 180 | 180 | 140 | 55 | 30 | 30 | 35.5 | 89.7 |
| 200 | 347 | 180 | 220 | 175 | 60 | 30 | 30 | 37 | 89.7 |



Dimensiones FA / FB

| Ø Cilindro (mm) | A | C | BA | BB | BC | BD | BE | BF | BP | T |
|-----------------|-----|-----|------|----|-----|-----|-----|-----|------|------|
| 32 | 142 | 94 | 30.5 | 10 | 47 | 32 | 80 | 64 | 7 | 32.5 |
| 40 | 159 | 105 | 35.5 | 10 | 53 | 36 | 90 | 72 | 9 | 38 |
| 50 | 175 | 106 | 40.5 | 12 | 65 | 45 | 108 | 90 | 9 | 46.5 |
| 63 | 190 | 121 | 45.5 | 12 | 75 | 50 | 118 | 100 | 9 | 56.5 |
| 80 | 214 | 128 | 45.5 | 16 | 95 | 63 | 150 | 126 | 12.5 | 72 |
| 100 | 229 | 138 | 55.5 | 16 | 115 | 75 | 176 | 150 | 14.5 | 89 |
| 125 | 279 | 160 | 60.5 | 20 | 139 | 90 | 218 | 180 | 16.5 | 110 |
| 160 | 332 | 180 | 65.5 | 20 | 180 | 115 | 280 | 230 | 18.5 | 140 |
| 200 | 347 | 180 | 75.5 | 25 | 220 | 135 | 320 | 270 | 24 | 175 |

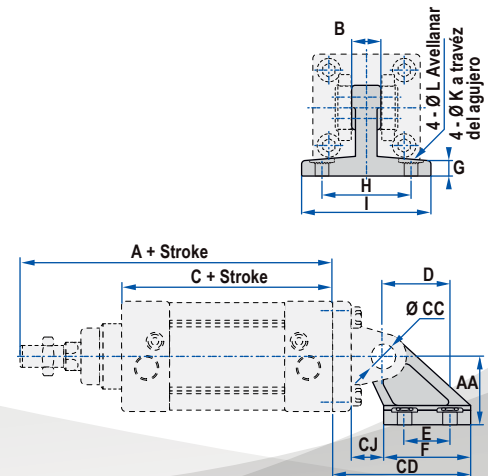


Dimensiones CB

| Ø Cilindro (mm) | A | C | CC | CD | CE | CJ | CP | CT | PA1 | PB1 | S | T |
|-----------------|-----|-----|----|------|----|------|----|-----|-----|-------|-----|------|
| 32 | 142 | 94 | 22 | 9 | 10 | 13 | 26 | 45 | 51 | 45.5 | 47 | 32.5 |
| 40 | 159 | 105 | 25 | 10.5 | 12 | 16 | 28 | 52 | 59 | 52.5 | 52 | 38 |
| 50 | 175 | 106 | 27 | 11 | 12 | 17 | 32 | 60 | 67 | 60.5 | 64 | 46.5 |
| 63 | 190 | 121 | 32 | 13 | 16 | 22 | 40 | 70 | 77 | 70.5 | 74 | 56.5 |
| 80 | 214 | 128 | 36 | 14 | 16 | 22 | 50 | 90 | 97 | 90.5 | 94 | 72 |
| 100 | 229 | 138 | 41 | 17.5 | 20 | 27 | 60 | 110 | 119 | 110.5 | 113 | 89 |
| 125 | 279 | 160 | 50 | 21.5 | 25 | 33 | 70 | 130 | 139 | 130.5 | 139 | 110 |
| 160 | 332 | 180 | 55 | 30 | 30 | 35.5 | 90 | 170 | 181 | 170.5 | 180 | 140 |
| 200 | 347 | 180 | 60 | 30 | 30 | 36 | 90 | 170 | 181 | 170.5 | 220 | 175 |

Dimensiones CR

| Ø Cilindro (mm) | A | AA | B | C | CC | CD | CJ | D | E | F | G | H | I | K | L |
|-----------------|-----|-----|----|-----|----|-------|------|-----|----|-----|----|-----|-----|------|------|
| 32 | 142 | 32 | 26 | 94 | 10 | 49 | 10 | 21 | 18 | 30 | 8 | 38 | 50 | 6.5 | 10.5 |
| 40 | 159 | 36 | 28 | 105 | 12 | 55 | 12 | 24 | 22 | 34 | 10 | 41 | 53 | 6.5 | 10.5 |
| 50 | 175 | 45 | 32 | 106 | 12 | 67 | 13 | 33 | 30 | 44 | 12 | 50 | 64 | 9 | 14 |
| 63 | 190 | 50 | 40 | 121 | 16 | 76 | 17 | 37 | 35 | 49 | 12 | 52 | 66 | 9 | 14 |
| 80 | 214 | 63 | 50 | 128 | 16 | 92.5 | 19.5 | 47 | 40 | 59 | 14 | 66 | 85 | 11 | 17 |
| 100 | 229 | 71 | 60 | 138 | 20 | 105.5 | 22.5 | 55 | 50 | 69 | 15 | 76 | 95 | 11 | 17 |
| 125 | 279 | 90 | 70 | 160 | 25 | 134 | 29 | 70 | 60 | 88 | 20 | 94 | 122 | 13.5 | 20 |
| 160 | 332 | 115 | 90 | 180 | 30 | 171 | 25.5 | 97 | 88 | 126 | 25 | 118 | 156 | 13.5 | 20 |
| 200 | 347 | 135 | 90 | 180 | 30 | 185 | 31 | 105 | 90 | 130 | 30 | 122 | 162 | 18 | 26 |



Articulaciones



Horquilla I Macho



Horquilla Hembra Y



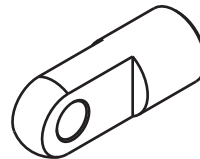
Junta Flotante



Rótula

Códigos de Accesorios Articulaciones para Cilindros

| Ø Cilindro (mm) | Horquillas | | | | Sensor Switch | |
|-----------------|------------|------------|------------|------------|---------------|------|
| | I | Y | F | U | CMSE | DMSE |
| 32 | F-M10x125I | F-M10x125Y | F-M10x125F | F-M10x125U | CMSE | DMSE |
| 40 | F-M12x125I | F-M12x125Y | F-M12x125F | F-M12x125U | | |
| 50 | F-M16x150I | F-M16x150Y | F-M16x150F | F-M16x150U | | |
| 63 | F-M16x150I | F-M16x150Y | F-M16x150F | F-M16x150U | | |
| 80 | F-M20x150I | F-M20x150Y | F-M20x150F | F-M20x150U | | |
| 100 | F-M20x150I | F-M20x150Y | F-M20x150F | F-M20x150U | | |
| 125 | F-M27x200I | F-M27x200Y | F-M27x200F | F-M27x200U | | |
| 160 | F-M36x200I | F-M36x200Y | F-M36x200F | F-M36x200U | | |
| 200 | F-M36x200I | F-M36x200Y | F-M36x200F | F-M36x200U | | |

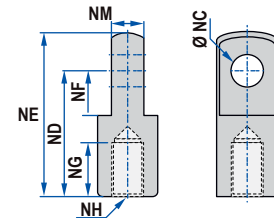


Horquilla I Macho

Cómo Ordenar

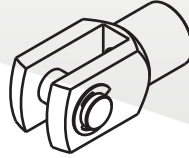
F M16 x 150 I

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|----------------------|
| M10 | M16 | 125: 1.25mm | I: Horquilla I Macho |
| M12 | | | |
| M16 | | | |
| M20 | | | |
| M27 | | | |
| M36 | 200: 2.0mm | | |
| M42 | | | |



Dimensiones

| Item | NC | ND | NE | NF | NG | NH | NM |
|------------|----|-----|-----|----|----|----------|----|
| F-M10x125I | 10 | 40 | 50 | 15 | 20 | M10x1.25 | 10 |
| F-M12x125I | 12 | 48 | 62 | 24 | 20 | M12x1.25 | 12 |
| F-M16x150I | 16 | 64 | 82 | 32 | 23 | M16x1.5 | 16 |
| F-M20x150I | 20 | 80 | 102 | 40 | 30 | M20x1.5 | 20 |
| F-M27x200I | 30 | 110 | 139 | 51 | 45 | M27x2.0 | 30 |
| F-M36x200I | 35 | 144 | 181 | 65 | 55 | M36x2.0 | 35 |



Horquilla Hembra Y

Cómo Ordenar

F M16 x 150 Y

① ② ③ ④

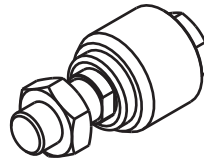
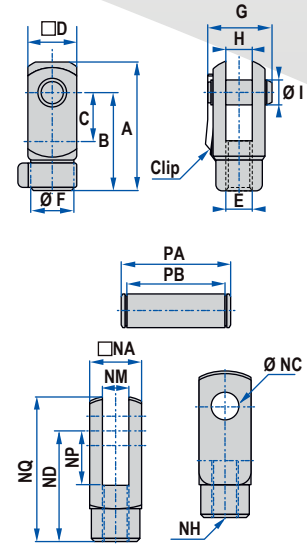
| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|-----------------------|
| M10 | M16 | 125: 1.25mm | Y: Horquilla Y Hembra |
| M12 | | | |
| M16 | | | |
| M20 | 150: 1.5mm | | |
| M27 | | | |
| M36 | | 200: 2.0mm | |

Dimensiones

| Item | E | G | H | I |
|------------|----------|----|----|----|
| F-M10x125Y | M10x1.25 | 25 | 10 | 10 |

| Item | NA | NC | ND | NP | NQ |
|------------|------|----|-----|----|-----|
| F-M12x125Y | 25.4 | 12 | 48 | 24 | 62 |
| F-M16x150Y | 32 | 16 | 64 | 32 | 80 |
| F-M20x150Y | 44.4 | 20 | 80 | 40 | 101 |
| F-M27x200Y | 54 | 30 | 110 | 55 | 139 |
| F-M36x200Y | 70 | 35 | 144 | 73 | 179 |

| Item | NM | NH | PA | PB |
|------------|----|----------|------|------|
| F-M12x125Y | 12 | M12x1.25 | 32.4 | 26.2 |
| F-M16x150Y | 16 | M16x1.5 | 39 | 32.8 |
| F-M20x150Y | 20 | M20x1.5 | 53.4 | 45.2 |
| F-M27x200Y | 30 | M27x2.0 | 64.2 | 54.8 |
| F-M36x200Y | 35 | M36x2.0 | 80.2 | 70.8 |



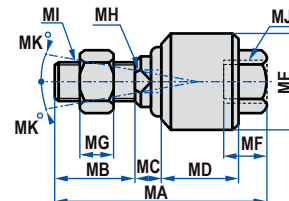
Junta Flotante F

Cómo Ordenar

F M22 x 150 F

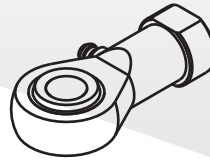
① ② ③ ④

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|-------------------|
| M10 | M22 | 125: 1.25mm | F: Junta Flotante |
| M12 | | | |
| M16 | | | |
| M20 | 150: 1.5mm | | |
| M27 | | | |
| M36 | | 200: 2.0mm | |



Dimensiones

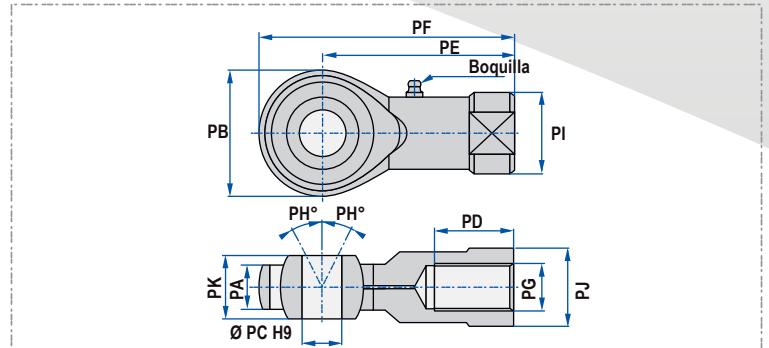
| Item | MA | MB | MC | MD | ME | MF | MG | MH | MIMJ | MK |
|------------|-------|----|------|------|------|------|------|----|----------|----|
| F-M10x125F | 58 | 22 | 7 | 21 | 26 | 11 | 6 | 10 | M10x1.25 | 12 |
| F-M12x125F | 58 | 22 | 8 | 21 | 28 | 11.5 | 7 | 12 | M12x1.25 | 12 |
| F-M16x150F | 90 | 27 | 10 | 41 | 44.5 | 19 | 8 | 17 | M16x1.5 | 7 |
| F-M20x125F | 102 | 29 | 13 | 46 | 53 | 22 | 10 | 22 | M20x1.5 | 10 |
| F-M27x200F | 136.5 | 40 | 14.5 | 52.5 | 59.5 | 40 | 13.5 | 27 | M27x2.0 | 5 |
| F-M36x200F | 194.5 | 60 | 20.5 | 77.5 | 84 | 54 | 18 | 36 | M36x2.0 | 5 |



Rótula U

Cómo Ordenar

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|-----------|
| | F | M10 x 125 | U |
| | ① | ② | ③ |
| | M10 | 125: 1.25mm | U: Rótula |
| | M12 | | |
| | M16 | 150: 1.5mm | |
| | M20 | | |
| | M27 | 200: 2.0mm | |
| | M36 | | |



Dimensiones

| Item | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK |
|------------|------|----|----|----|-----|-----|----------|----|------|----|----|
| F-M10x125U | 11 | 26 | 10 | 20 | 43 | 56 | M10x1.25 | 13 | 19 | 17 | 14 |
| F-M12x125U | 12 | 32 | 12 | 22 | 50 | 66 | M12x1.25 | 13 | 22 | 19 | 16 |
| F-M16x150U | 15 | 40 | 16 | 28 | 64 | 84 | M16x1.5 | 15 | 27 | 22 | 21 |
| F-M20x150U | 18 | 46 | 20 | 33 | 77 | 100 | M20x1.5 | 15 | 34 | 30 | 25 |
| F-M27x200U | 25 | 70 | 30 | 51 | 110 | 145 | M27x2.0 | 15 | 50 | 41 | 37 |
| F-M36x200U | 27.5 | 80 | 35 | 56 | 125 | 165 | M36x2.0 | 15 | 57.5 | 50 | 43 |



Articulaciones para Cilindro



**Horquilla I
Macho**



**Horquilla
Hembra Y**



**Junta
Flotante**



Rótula

Fuerza de Trabajo

Unidad: Newton(N)

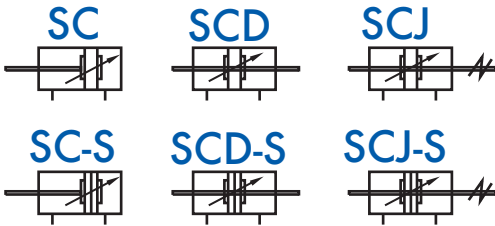
| Ø Cilindro (mm) | Ø Vástago (mm) | Tipo de Accionamiento | Área de Émbolo (mm ²) | Presión de Trabajo (MPa) | | | | | | | | | |
|-----------------|----------------|-----------------------|-----------------------------------|--------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | |
| 32 | 12 | Doble Efecto | Avance | 804 | 80.4 | 160.8 | 241.2 | 321.6 | 402.0 | 482.4 | 562.8 | 643.2 | 723.6 |
| | | Retorno | 690 | 69.0 | 138.0 | 207.0 | 276.0 | 345.0 | 414.0 | 483.0 | 552.0 | 621.0 | |
| 40 | 16 | Doble Efecto | Avance | 1256 | 125.6 | 251.2 | 376.8 | 502.4 | 628.0 | 753.6 | 879.2 | 1002.4 | 1130.4 |
| | | Retorno | 1055 | 105.5 | 211.0 | 316.5 | 422.0 | 527.5 | 633.0 | 738.5 | 844.0 | 949.5 | |
| 50 | 20 | Doble Efecto | Avance | 1963 | 196.3 | 392.6 | 588.9 | 785.2 | 981.5 | 1177.8 | 1374.1 | 1570.4 | 1766.7 |
| | | Retorno | 1649 | 164.9 | 329.8 | 494.7 | 659.6 | 824.5 | 989.4 | 1154.3 | 1319.2 | 1484.1 | |
| 63 | 20 | Doble Efecto | Avance | 3117 | 311.7 | 623.4 | 935.1 | 1246.8 | 1558.5 | 1870.2 | 2181.9 | 2493.6 | 2805.3 |
| | | Retorno | 2803 | 280.3 | 560.6 | 840.9 | 1121.2 | 1401.5 | 1681.8 | 1962.1 | 2242.4 | 2522.7 | |
| 80 | 25 | Doble Efecto | Avance | 5026 | 502.6 | 1005.2 | 1507.8 | 2010.4 | 2513.0 | 3015.6 | 3518.2 | 4020.8 | 4523.4 |
| | | Retorno | 4536 | 453.6 | 907.2 | 1360.8 | 1814.4 | 2268.0 | 2721.6 | 3175.2 | 3628.8 | 4082.4 | |
| 100 | 25 | Doble Efecto | Avance | 7853 | 785.3 | 1570.6 | 2355.9 | 3141.2 | 3926.5 | 4711.8 | 5497.1 | 6282.4 | 7067.7 |
| | | Retorno | 7362 | 736.2 | 1472.4 | 2208.6 | 2948.6 | 3681.0 | 4417.2 | 5153.4 | 5889.6 | 6625.8 | |



Especificaciones SC

| Ø Cilindro (mm) | 32 | 40 | 50 | 63 | 80 | 100 |
|---|---|------|------|------|----|-----|
| Tipo de Accionamiento | Doble Efecto | | | | | |
| Fluido | Aire (filtrado a 40 µm) | | | | | |
| Presión de Trabajo | 0.1 a 1.0 MPa (15 a 145 psi) (1.5 a 10.0 bar) | | | | | |
| Presión de Prueba | 1.5 MPa (215 psi) (15 bar) | | | | | |
| Temperatura °C | -20 a 80 | | | | | |
| Velocidad mm/s | 30 a 800 | | | | | |
| Tolerancia de Carrera | 0 a 250 ^{+1.0} ₀ 251 a 1000 ^{+1.5} ₀ 1001 a 1500 ^{+2.0} ₀ | | | | | |
| Tipo de Amortiguación | Amortiguación Variable | | | | | |
| Carrera de amortiguación ajustable | 21 | | 28 | | 29 | |
| Tamaño de Puerto | 1/8" | 1/4" | 3/8" | 1/2" | | |
| TPU Sellos Normal -5 a 80 °C | | | | | | |
| NBR Sellos Viton Maximo 180 °C (Recomendado Hasta 120 °C) | | | | | | |

Simbología



Cómo Ordenar

SC 50 x 50 S □
 SCD 50 x 50 S □
 SCJ 50 x 50 - 20 S □

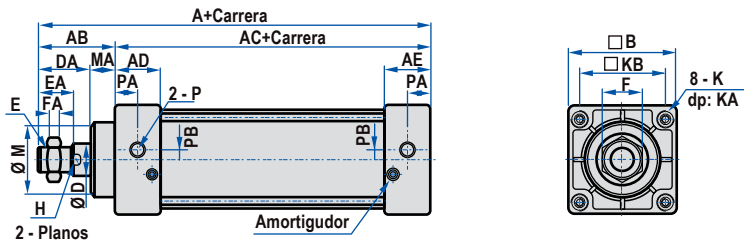
① ② ③ ④ ⑤ ⑥

| ① Modelo | ② Diámetro | ③ Carrera | ④ Ajuste de Carrera | ⑤ Imán | ⑥ Opciones |
|------------------------|------------|--|---|-------------|---|
| SC: Doble Efecto | 32 40 | Tomar referencia de tabla Límites de Carrera | SCJ: 10 20 30 40 50 75 100 | S: Con Imán | Vacio: TPU |
| SCD: Doble Vástago | 50 63 | | | | HT: Alta Temperatura |
| SCJ: Carrera Ajustable | 80 100 | | | | SR: Rosca especial |
| | | | | | SSR: Vástago de Acero Inoxidable 304 |
| | | | | | EXV: Extensión de vástago |
| | | | | | EXC: Extensión de cuerda |
| | | | | | AG: Anti Giro |
| | | | | | TC: Trunion |

| Material Vástago |
|--|
| Acero al Carbón 1045 20 micras de cromo |

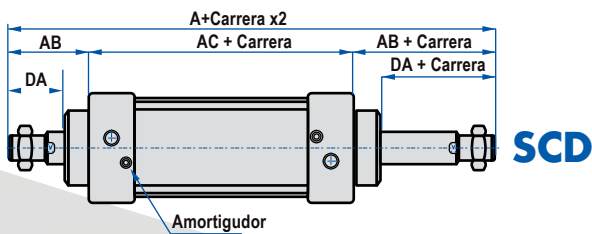
Límites de Carrera

| Ø Cilindro (mm) | Carrera Estándar (mm) | | | | | | | | | | | | | | | | | | | | Máxima Carrera Estándar | Máxima Carrera | |
|-----------------|-----------------------|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------------------------|----------------|------|
| | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | | | 1000 |
| 32 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | | | | | | 1000 | 2000 |
| 40 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 2000 |
| 50 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1200 | 2000 |
| 63 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |
| 80 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |
| 100 | 25 | 50 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 900 | 1000 | 1500 | 2000 |

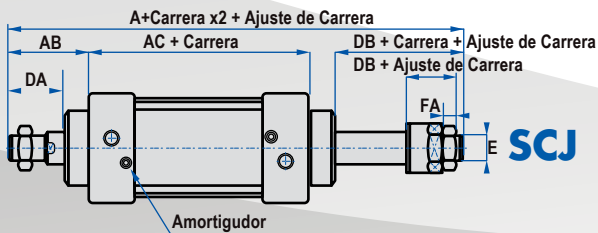


Dimensiones SC

| Ø Cilindro (mm) | A | AB | AC | AD | AE | B | D | DA | E | EA | F | FA | H | K | KA | KB | M | MA | P | PA | PB |
|-----------------|-----|----|-----|------|------|-----|----|----|------------|----|----|----|----|-----------|------|----|----|----|------|------|-----|
| 32 | 140 | 47 | 93 | 27.5 | 27.5 | 45 | 12 | 32 | M10 x 1.25 | 22 | 17 | 6 | 10 | M6 x 1 | 14.5 | 33 | 28 | 15 | 1/8" | 14 | 5.5 |
| 40 | 142 | 49 | 93 | 27.5 | 27.5 | 50 | 16 | 34 | M12 x 1.25 | 24 | 17 | 7 | 13 | M6 x 1 | 14.5 | 37 | 32 | 15 | 1/4" | 15 | 6 |
| 50 | 150 | 57 | 93 | 27.5 | 27.5 | 62 | 20 | 42 | M16 x 1.5 | 32 | 23 | 8 | 17 | M6 x 1 | 14.5 | 47 | 38 | 15 | 1/4" | 17 | 8.5 |
| 63 | 153 | 57 | 96 | 27.5 | 27.5 | 75 | 20 | 42 | M16 x 1.5 | 32 | 23 | 8 | 17 | M8 x 1.25 | 14.5 | 56 | 38 | 15 | 3/8" | 15 | 9.5 |
| 80 | 182 | 75 | 107 | 33 | 33 | 94 | 25 | 54 | M20 x 1.5 | 40 | 26 | 10 | 22 | M10 x 1.5 | 17 | 70 | 47 | 21 | 3/8" | 19.5 | 10 |
| 100 | 188 | 75 | 113 | 33 | 33 | 112 | 25 | 54 | M20 x 1.5 | 40 | 26 | 10 | 22 | M10 x 1.5 | 17 | 84 | 47 | 21 | 1/2" | 16.5 | 11 |



Dimensiones SCD Doble Vástago y SCJ Ajuste de Carrera



| Ø Cilindro (mm) | A | | AB | AC | DA | DB | E | FA | |
|-----------------|--------|-----|-------|----|-----|----|------|----------|-----|
| | Modelo | SCD | | | | | | | SCJ |
| 32 | | 187 | 182 | 47 | 93 | 32 | 27 | M10X1.25 | 6 |
| 40 | | 191 | 185 | 49 | 93 | 34 | 28 | M12X1.25 | 7 |
| 50 | | 207 | 194 | 57 | 93 | 42 | 29 | M16X1.5 | 8 |
| 63 | | 210 | 197 | 57 | 96 | 42 | 29 | M16X1.5 | 8 |
| 80 | | 257 | 238.5 | 75 | 107 | 54 | 35.5 | M20X1.5 | 10 |
| 100 | | 263 | 244.5 | 75 | 113 | 54 | 35.5 | M20X1.5 | 10 |

Articulaciones

Códigos de Accesorios Articulaciones para Cilindros



Horquilla I Macho



Horquilla Y Hembra

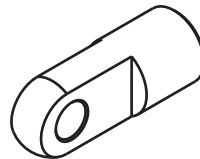


Junta Flotante



Rótula

| Ø Cilindro (mm) | Horquillas | | | | Sensor Switch | |
|-----------------|------------|------------|------------|------------|---------------|------|
| | I | Y | F | U | CMSE | DMSE |
| 32 | F-M10x125I | F-M10x125Y | F-M10x125F | F-M10x125U | CMSE | DMSE |
| 40 | F-M12x125I | F-M12x125Y | F-M12x125F | F-M12x125U | | |
| 50 | F-M16x150I | F-M16x150Y | F-M16x150F | F-M16x150U | | |
| 63 | F-M16x150I | F-M16x150Y | F-M16x150F | F-M16x150U | | |
| 80 | F-M20x150I | F-M20x150Y | F-M20x150F | F-M20x150U | | |
| 100 | F-M20x150I | F-M20x150Y | F-M20x150F | F-M20x150U | | |



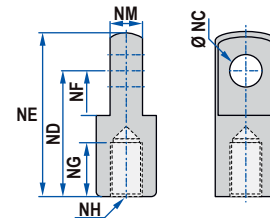
Horquilla I Macho

Cómo Ordenar

F M16 x 150 I

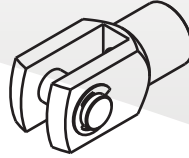
① ② ③ ④

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|----------------------|
| M10 | M16 | 125: 1.25mm | I: Horquilla I Macho |
| M12 | | | |
| M16 | | | |
| M20 | M20 | 150: 1.5mm | |



Dimensiones

| Item | NC | ND | NE | NF | NG | NH | NM |
|------------|----|----|-----|----|----|----------|----|
| F-M10x125I | 10 | 40 | 50 | 15 | 20 | M10x1.25 | 10 |
| F-M12x125I | 12 | 48 | 62 | 24 | 20 | M12x1.25 | 12 |
| F-M16x150I | 16 | 64 | 82 | 32 | 23 | M16X1.5 | 16 |
| F-M20x150I | 20 | 80 | 102 | 40 | 30 | M20x1.5 | 20 |



Horquilla Hembra Y

Cómo Ordenar

F M16 x 150 Y

① ② ③ ④

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------------|----------|
| M10 | 125: 1.25mm | Y: Horquilla Y Hembra | |
| M12 | | | |
| M16 | 150: 1.5mm | | |
| M20 | | | |

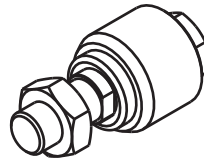
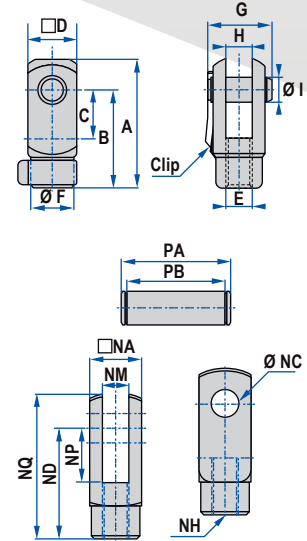
Dimensiones

| Item | A | B | C | D | F |
|------------|----|----|----|----|----|
| F-M10x125Y | 52 | 40 | 20 | 19 | 18 |

| Item | E | G | H | I |
|------------|----------|------|----|----|
| F-M10x125Y | M10x1.25 | 5 25 | 10 | 10 |

| Item | NA | NC | ND | NP | NQ |
|------------|------|----|----|----|-----|
| F-M12x125Y | 25.4 | 12 | 48 | 24 | 62 |
| F-M16x150Y | 32 | 16 | 64 | 32 | 80 |
| F-M20x150Y | 44.4 | 20 | 80 | 40 | 101 |

| Item | NM | NH | PA | PB |
|------------|----|----------|------|------|
| F-M12x125Y | 12 | M12x1.25 | 32.4 | 26.2 |
| F-M16x150Y | 16 | M16x1.5 | 39 | 32.8 |
| F-M20x150Y | 20 | M20x1.5 | 53.4 | 45.2 |



Junta Flotante F

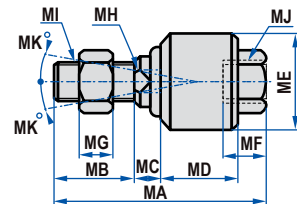
Cómo Ordenar

F M22 x 150 F

① ② ③ ④

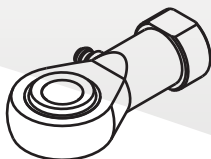
| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-------------------|----------|
| M10 | 125: 1.25mm | F: Junta Flotante | |
| M12 | | | |
| M16 | 150: 1.5mm | | |
| M20 | | | |

* No aplica para diámetro 250



Dimensiones

| Item | MA | MB | MC | MD | ME | MF | MG | MH | MIMJ | MK |
|------------|-----|----|----|----|------|------|----|----|----------|----|
| F-M8x125F | 51 | 20 | 6 | 17 | 24 | 10.5 | 6 | 8 | M8x1.25 | 13 |
| F-M10x125F | 58 | 22 | 7 | 21 | 26 | 11 | 6 | 10 | M10x1.25 | 12 |
| F-M12x125F | 58 | 22 | 8 | 21 | 28 | 11.5 | 7 | 12 | M12x1.25 | 12 |
| F-M16x150F | 90 | 27 | 10 | 41 | 44.5 | 19 | 8 | 17 | M16x1.5 | 7 |
| F-M20x125F | 102 | 29 | 13 | 46 | 53 | 22 | 10 | 22 | M20x1.5 | 10 |

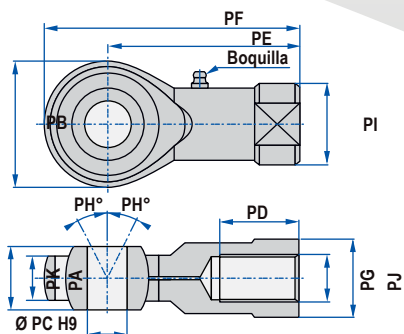


Rótula U

Cómo Ordenar

| | | | | | | |
|--------------------|---|---------------------|---|-----------------|-----------|----------|
| | F | M10 | x | 125 | U | |
| | ① | ② | | ③ | ④ | |
| ① Código Accesorio | | ② Rosca de Tornillo | | ③ Paso de Rosca | | ④ Código |
| | | M10 | | 125: 1.25mm | U: Rótula | |
| | | M12 | | | | |
| | | M16 | | | | |
| | | M20 | | 150: 1.5mm | | |

* No aplica para diámetro 250



Dimensiones

| Item | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK |
|------------|----|----|----|----|----|-----|----------|----|----|----|----|
| F-M10x125U | 11 | 26 | 10 | 20 | 43 | 56 | M10x1.25 | 13 | 19 | 17 | 14 |
| F-M12x125U | 12 | 32 | 12 | 22 | 50 | 66 | M12x1.25 | 13 | 22 | 19 | 16 |
| F-M16x150U | 15 | 40 | 16 | 28 | 64 | 84 | M16x1.5 | 15 | 27 | 22 | 21 |
| F-M20x150U | 18 | 46 | 20 | 33 | 77 | 100 | M20x1.5 | 15 | 34 | 30 | 25 |



Fuerza de Trabajo

Unidad: Newton(N)

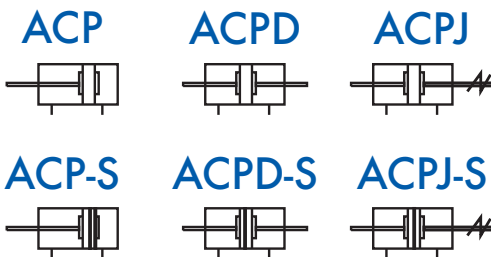
| Ø Cilindro (mm) | Ø Vástago (mm) | Tipo de Accionamiento | Área de Émbolo (mm ²) | Presión de Trabajo (MPa) | | | | | | | | |
|-----------------|----------------|-----------------------|-----------------------------------|--------------------------|-------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | | |
| 20 | 10 | Doble Efecto | Avance | 314.2 | 31.4 | 62.8 | 94.2 | 125.7 | 157.1 | 188.5 | 219.9 | |
| | | Retorno | | 235.6 | 23.6 | 47.1 | 70.7 | 94.2 | 117.8 | 141.4 | 164.9 | |
| 25 | 10 | Doble Efecto | Avance | 490.9 | 49.1 | 98.2 | 147.3 | 196.3 | 245.4 | 294.5 | 343.6 | |
| | | Retorno | | 412.3 | 41.2 | 82.5 | 123.7 | 164.9 | 206.2 | 247.4 | 288.6 | |
| 32 | 12 | Doble Efecto | Avance | 804.2 | 80.4 | 160.8 | 241.3 | 321.7 | 402.2 | 482.5 | 563.0 | |
| | | Retorno | | 691.2 | 69.1 | 138.2 | 207.3 | 276.5 | 345.6 | 414.7 | 483.8 | |
| 40 | 12 | Doble Efecto | Avance | 1256.6 | 125.7 | 251.3 | 377.0 | 502.7 | 628.3 | 754.0 | 879.6 | |
| | | Retorno | | 1143.5 | 114.4 | 228.7 | 343.1 | 457.4 | 571.8 | 686.1 | 800.5 | |
| 50 | 16 | Doble Efecto | Avance | 1963.5 | 196.3 | 392.7 | 589.0 | 785.4 | 981.7 | 1178.1 | 1374.4 | |
| | | Retorno | | 1762.4 | 176.2 | 352.5 | 528.7 | 705.0 | 881.2 | 1057.5 | 1233.7 | |
| 63 | 16 | Doble Efecto | Avance | 3117.2 | 311.7 | 623.4 | 935.2 | 1246.9 | 1558.6 | 1870.3 | 2182.1 | |
| | | Retorno | | 2916.2 | 291.6 | 583.2 | 874.9 | 1166.5 | 1458.1 | 1749.7 | 2041.3 | |
| 80 | 20 | Doble Efecto | Avance | 5026.5 | 502.7 | 1005.3 | 1508.0 | 2040.6 | 2513.3 | 3015.9 | 3518.6 | |
| | | Retorno | | 4712.4 | 471.2 | 942.5 | 1413.7 | 1885.0 | 2356.2 | 2827.4 | 3298.7 | |
| 100 | 25 | Doble Efecto | Avance | 7854.0 | 785.4 | 1570.8 | 2356.2 | 3141.6 | 3927.0 | 4712.4 | 5497.8 | 6283.2 |
| | | Retorno | | 7363.1 | 736.3 | 1472.6 | 2208.9 | 2945.2 | 3681.6 | 4417.9 | 5154.2 | |



Especificaciones ACP

| Ø Cilindro (mm) | 20 | 25 | 32 | 40 | 60 | 63 | 80 | 100 |
|---|---|----|----|------|----|----|----|------|
| Tipo de Accionamiento | Doble Efecto | | | | | | | |
| Fluido | Aire (filtrado a 40 µm) | | | | | | | |
| Presión de Trabajo | 0.1 - 1.0 MPa (14 - 145 Psi) | | | | | | | |
| Presión de Prueba | 1.5 MPa (215 Psi) | | | | | | | |
| Temperatura °C | -20 a 80 | | | | | | | |
| Velocidad mm/s | 30 - 500 | | | | | | | |
| Tolerancia de Carrera | 0 - 150 ^{+1.0} ₀ > 0 - 150 ^{+1.4} ₀ | | | | | | | |
| Tipo de Amortiguación | Parachoque | | | | | | | |
| Tamaño de Puerto | M5 x0.8 | | | 1/8" | | | | 1/4" |
| TPU Sellos Normal -5 a 80 °C | | | | | | | | |
| NBR Sellos Viton Maximo 180 °C (Recomendado Hasta 120 °C) | | | | | | | | |

Simbología



Cómo Ordenar

ACP S 20 x 30 B □
 ACPD S 20 x 30 B □
 ACPJ S 20 x 30 - 30 B □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

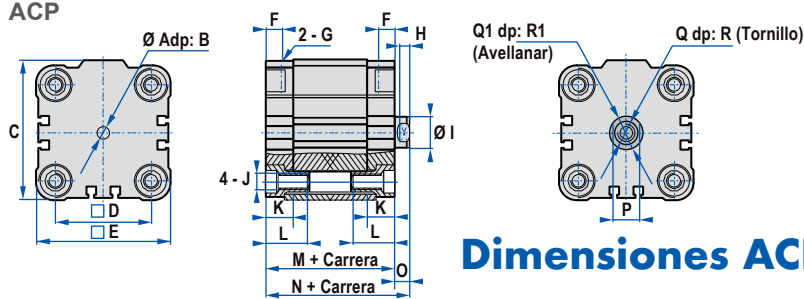
Material Vástago
Acero al Carbón 1045
20 micras de cromo

| ① Modelo | ② Imán | ③ Diámetro | ④ Carrera | ⑤ Ajuste de Carrera | ⑥ Tipo de Vástago | ⑦ Tipo de Montaje | ⑧ Opciones |
|-------------------------|-------------|------------|--|---|---------------------------|---|---|
| ACP: Doble Efecto | S: Con Imán | 20 | Tomar referencia de tabla Límites de Carrera | 10 20 30 40 50 75 100 | Vacio: Hembra B: Macho | Vacio: Sin Accesorios FA: Tipo FA FB: Tipo FB CA: Tipo CA CB: Tipo CB | Vacio: TPU HT: Alta Temperatura SR: Rosca especial SSR: Vástago de Acero Inoxidable 304 EXV: Extensión de vástago EXC: Extensión de cuerda AG: Anti Giro TC: Trunion |
| ACPD: Doble Vástago | | 25 | | | | | |
| ACPJ: Carrera Ajustable | | 32 | | | | | |
| | | 40 | | | | | |
| | | 50 | | | | | |
| | | 63 | | | | | |
| | | 80 | | | | | |
| | | 100 | | | | | |

Límites de Carrera

| Ø Cilindro (mm) | Carrera Estándar (mm) | | | | | | | | | | | | | | | | | | Máxima Carrera | | | | |
|-----------------|-----------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------------|-----|-----|-----|-----|
| 20 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 200 |
| 25 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 200 |
| 32 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 300 |
| 40 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 300 |
| 50 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 300 |
| 63 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 300 |
| 80 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 400 |
| 100 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 | 110 | 120 | 400 |

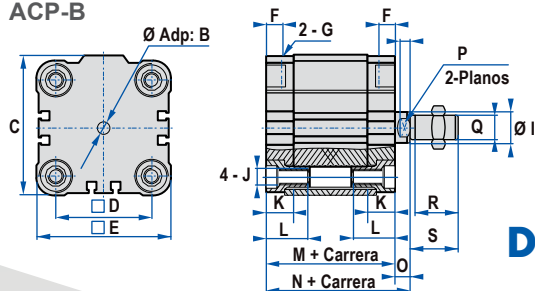
ACP



Dimensiones ACP Hembra

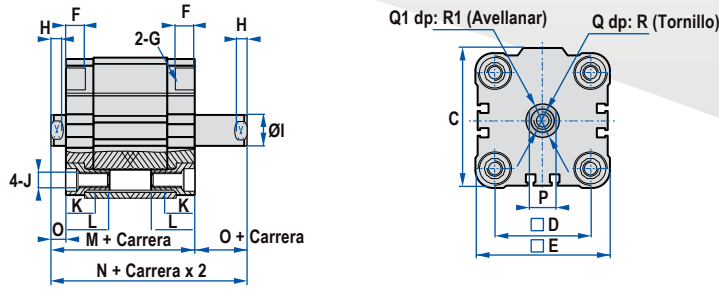
| Ø Cilindro (mm) | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | Q1 | R | R1 |
|-----------------|-----|---|------|-----|-----|------|----------|-----|----|-----------|------|------|------|------|-----|----|-----------|------|----|-----|
| 20 | 6 | 4 | 37.5 | 22 | 36 | 7 | M5 x 0.8 | 3 | 10 | M5 x 0.8 | 11.5 | 18 | 38 | 42.5 | 4.5 | 8 | M5 x 0.8 | 5.5 | 12 | 2 |
| 25 | 6.1 | 4 | 41.5 | 26 | 40 | 7 | M5 x 0.8 | 4 | 10 | M5 x 0.8 | 11.5 | 18 | 39.5 | 45 | 5.5 | 8 | M5 x 0.8 | 5.5 | 12 | 2 |
| 32 | 6.1 | 4 | 52 | 32 | 50 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21 | 44.5 | 50.5 | 6 | 10 | M6 x 1.0 | 6.5 | 14 | 2.6 |
| 40 | 6.1 | 4 | 62.5 | 42 | 60 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21 | 45.5 | 52 | 6.5 | 10 | M6 x 1.0 | 6.5 | 14 | 2.6 |
| 50 | 6.1 | 4 | 71 | 50 | 68 | 8 | 1/8" | 5 | 16 | M8 x 1.25 | 14 | 21.5 | 45.5 | 53 | 7.5 | 13 | M8 x 1.25 | 8.5 | 16 | 3.3 |
| 63 | 8.1 | 4 | 91 | 62 | 87 | 8 | 1/8" | 5 | 16 | M10 x 1.5 | 15 | 24 | 50 | 57.5 | 7.5 | 13 | M8 x 1.25 | 8.5 | 16 | 3.3 |
| 80 | 8.1 | 4 | 111 | 82 | 107 | 8.5 | 1/8" | 5.5 | 20 | M10 x 1.5 | 16 | 27 | 56 | 64 | 8 | 17 | M10 x 1.5 | 10.5 | 20 | 4.7 |
| 100 | 8.1 | 4 | 133 | 103 | 128 | 10.5 | 1/4" | 7.5 | 25 | M10 x 1.5 | 19 | 32 | 66.5 | 76.5 | 10 | 22 | M12 x 1.7 | 12.5 | 24 | 6.1 |

ACP-B



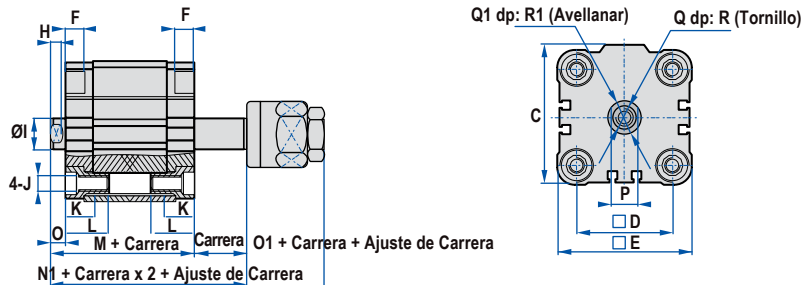
Dimensiones ACP Macho

| Ø Cilindro (mm) | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S |
|-----------------|-----|---|------|-----|-----|------|----------|-----|----|-----------|------|------|------|------|-----|----|----------|----|----|
| 20 | 6 | 4 | 37.5 | 22 | 36 | 7 | M5 x 0.8 | 3 | 10 | M5 x 0.8 | 11.5 | 18 | 38 | 42.5 | 4.5 | 8 | M10x1.25 | 20 | 22 |
| 25 | 6.1 | 4 | 41.5 | 26 | 40 | 7 | M5 x 0.8 | 4 | 10 | M5 x 0.8 | 11.5 | 18 | 39.5 | 45 | 5.5 | 8 | M10x1.25 | 20 | 22 |
| 32 | 6.1 | 4 | 52 | 32 | 50 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21 | 44.5 | 50.5 | 6 | 10 | M10x1.25 | 20 | 22 |
| 40 | 6.1 | 4 | 62.5 | 42 | 60 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21 | 45.5 | 52 | 6.5 | 10 | M10x1.25 | 20 | 22 |
| 50 | 6.1 | 4 | 71 | 50 | 68 | 8 | 1/8" | 5 | 16 | M8 x 1.25 | 14 | 21.5 | 45.5 | 53 | 7.5 | 13 | M12x1.25 | 22 | 24 |
| 63 | 8.1 | 4 | 91 | 62 | 87 | 8 | 1/8" | 5 | 16 | M10 x 1.5 | 15 | 24 | 50 | 57.5 | 7.5 | 13 | M12x1.25 | 22 | 24 |
| 80 | 8.1 | 4 | 111 | 82 | 107 | 8.5 | 1/8" | 5.5 | 20 | M10 x 1.5 | 16 | 27 | 56 | 64 | 8 | 17 | M16x1.5 | 30 | 32 |
| 100 | 8.1 | 4 | 133 | 103 | 128 | 10.5 | 1/4" | 7.5 | 25 | M10 x 1.5 | 19 | 32 | 66.5 | 76.5 | 10 | 22 | M20x1.5 | 38 | 40 |



Dimensiones ACPD Doble Vástago

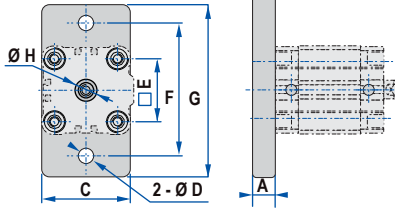
| Ø Cilindro (mm) | C | D | E | F | G | H | I | J | K | L | M | N | N1 | O | O1 | P | Q | Q1 | R | R1 |
|-----------------|------|-----|-----|------|----------|-----|----|-----------|------|------|------|------|-------|-----|----|----|------------|------|----|-----|
| 20 | 37.5 | 22 | 36 | 7 | M5 x 0.8 | 3 | 10 | M5 x 0.8 | 11.5 | 18.5 | 38 | 47 | 69.5 | 4.5 | 27 | 8 | M5 x 0.8 | 5.5 | 12 | 2 |
| 25 | 41.5 | 26 | 40 | 7 | M5 x 0.8 | 4 | 10 | M5 x 0.8 | 11.5 | 18.5 | 39.5 | 50.5 | 72 | 5.5 | 27 | 8 | M5 x 0.8 | 5.5 | 12 | 2 |
| 32 | 52 | 32 | 50 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21.5 | 44.5 | 56.5 | 77.5 | 6 | 27 | 10 | M6 x 1.0 | 6.5 | 14 | 2.6 |
| 40 | 62.5 | 42 | 60 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21.5 | 45.5 | 58.5 | 79 | 6.5 | 27 | 10 | M6 x 1.0 | 6.5 | 14 | 2.6 |
| 50 | 71 | 50 | 68 | 8 | 1/8" | 5 | 16 | M8 x 1.25 | 14 | 22 | 45.5 | 60.5 | 81 | 7.5 | 28 | 13 | M8 x 1.25 | 8.5 | 16 | 3.3 |
| 63 | 91 | 62 | 87 | 8 | 1/8" | 5 | 16 | M10 x 1.5 | 15 | 24.5 | 50 | 65 | 85.5 | 7.5 | 28 | 13 | M8 x 1.25 | 8.5 | 16 | 3.3 |
| 80 | 111 | 82 | 107 | 8.5 | 1/8" | 5.5 | 20 | M10 x 1.5 | 16 | 27.5 | 56 | 72 | 95 | 8 | 31 | 17 | M10 x 1.5 | 10.5 | 20 | 4.7 |
| 100 | 133 | 103 | 128 | 10.5 | 1/4" | 7.5 | 25 | M10 x 1.5 | 19 | 32.5 | 66.5 | 86.5 | 115.5 | 10 | 39 | 22 | M12 x 1.75 | 12.5 | 24 | 6.1 |



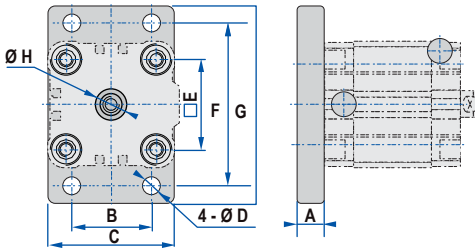
Dimensiones ACPJ Ajuste de Carrera

| Ø Cilindro (mm) | C | D | E | F | G | H | I | J | K | L | M | N | N1 | O | O1 | P | Q | Q1 | R | R1 |
|-----------------|------|-----|-----|------|----------|-----|----|-----------|------|------|------|------|-------|-----|----|----|------------|------|----|-----|
| 20 | 37.5 | 22 | 36 | 7 | M5 x 0.8 | 3 | 10 | M5 x 0.8 | 11.5 | 18.5 | 38 | 47 | 69.5 | 4.5 | 27 | 8 | M5 x 0.8 | 5.5 | 12 | 2 |
| 25 | 41.5 | 26 | 40 | 7 | M5 x 0.8 | 4 | 10 | M5 x 0.8 | 11.5 | 18.5 | 39.5 | 50.5 | 72 | 5.5 | 27 | 8 | M5 x 0.8 | 5.5 | 12 | 2 |
| 32 | 52 | 32 | 50 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21.5 | 44.5 | 56.5 | 77.5 | 6 | 27 | 10 | M6 x 1.0 | 6.5 | 14 | 2.6 |
| 40 | 62.5 | 42 | 60 | 8 | 1/8" | 4.5 | 12 | M6 x 1.0 | 14 | 21.5 | 45.5 | 58.5 | 79 | 6.5 | 27 | 10 | M6 x 1.0 | 6.5 | 14 | 2.6 |
| 50 | 71 | 50 | 68 | 8 | 1/8" | 5 | 16 | M8 x 1.25 | 14 | 22 | 45.5 | 60.5 | 81 | 7.5 | 28 | 13 | M8 x 1.25 | 8.5 | 16 | 3.3 |
| 63 | 91 | 62 | 87 | 8 | 1/8" | 5 | 16 | M10 x 1.5 | 15 | 24.5 | 50 | 65 | 85.5 | 7.5 | 28 | 13 | M8 x 1.25 | 8.5 | 16 | 3.3 |
| 80 | 111 | 82 | 107 | 8.5 | 1/8" | 5.5 | 20 | M10 x 1.5 | 16 | 27.5 | 56 | 72 | 95 | 8 | 31 | 17 | M10 x 1.5 | 10.5 | 20 | 4.7 |
| 100 | 133 | 103 | 128 | 10.5 | 1/4" | 7.5 | 25 | M10 x 1.5 | 19 | 32.5 | 66.5 | 86.5 | 115.5 | 10 | 39 | 22 | M12 x 1.75 | 12.5 | 24 | 6.1 |

Ø 20 - Ø 25



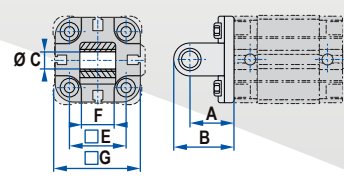
Ø 32 - Ø 100



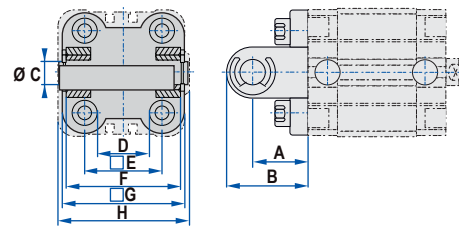
Dimensiones Montaje FA / FB

| Ø Cilindro (mm) | A | B | C | D | E | F | G | H |
|-----------------|----|----|-----|-----|-----|-----|-----|----|
| 20 | 10 | | 36 | 6.5 | 22 | 55 | 68 | 16 |
| 25 | 10 | | 40 | 6.5 | 26 | 60 | 78 | 16 |
| 32 | 10 | 32 | 50 | 7 | 32 | 65 | 78 | 18 |
| 40 | 10 | 36 | 60 | 9 | 42 | 82 | 102 | 18 |
| 50 | 12 | 45 | 68 | 9 | 50 | 90 | 110 | 22 |
| 63 | 15 | 50 | 87 | 9 | 62 | 110 | 128 | 22 |
| 80 | 15 | 63 | 107 | 12 | 82 | 135 | 160 | 28 |
| 100 | 15 | 75 | 128 | 14 | 103 | 163 | 190 | 34 |

Ø 12 - Ø 25 CA Macho



Ø 32 - Ø 100 CB Hembra

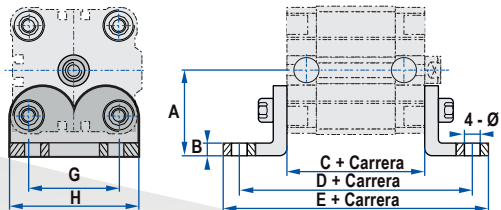


Dimensiones Montaje CA / CB

| Ø Cilindro (mm) | A | B | C | D | E | F | G | H |
|-----------------|----|----|----|----|-----|-----|------|------|
| 20 | 20 | 28 | 8 | | 22 | 16 | 34.5 | |
| 25 | 20 | 28 | 8 | | 26 | 16 | 38.5 | |
| 32 | 22 | 32 | 10 | 26 | 32 | 45 | 48 | 51.5 |
| 40 | 25 | 37 | 12 | 28 | 42 | 52 | 58 | 59 |
| 50 | 27 | 39 | 12 | 32 | 50 | 60 | 66 | 67 |
| 63 | 32 | 48 | 16 | 40 | 62 | 70 | 85 | 77 |
| 80 | 36 | 52 | 16 | 50 | 82 | 90 | 105 | 97 |
| 100 | 41 | 61 | 20 | 60 | 103 | 110 | 126 | 119 |

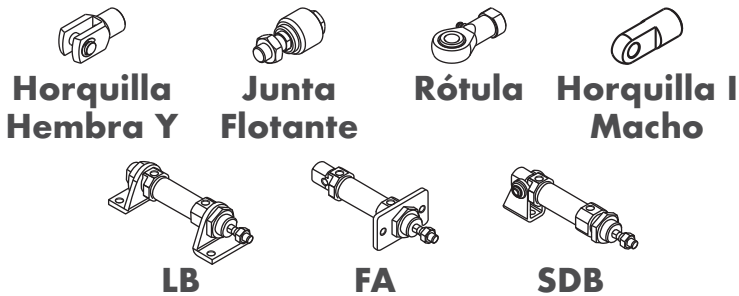
Dimensiones Montaje LB

| Ø Cilindro (mm) | A | B | C | D | E | F | G | H |
|-----------------|------|---|------|-------|-------|------|-----|-----|
| 20 | 27 | 4 | 38 | 70 | 82.6 | 6.5 | 22 | 34 |
| 25 | 29 | 4 | 39.5 | 71.5 | 84 | 6.5 | 26 | 38 |
| 32 | 34 | 5 | 44.5 | 80.5 | 97.1 | 6.5 | 32 | 48 |
| 40 | 40.5 | 5 | 45.5 | 85.5 | 102.1 | 9 | 42 | 58 |
| 50 | 47 | 6 | 45.5 | 93.5 | 110.1 | 9 | 50 | 66 |
| 63 | 56.5 | 6 | 50 | 104 | 127.6 | 11 | 62 | 85 |
| 80 | 68.5 | 8 | 56 | 116 | 139.6 | 11 | 82 | 105 |
| 100 | 81 | 8 | 66.5 | 132.5 | 156.1 | 13.5 | 103 | 126 |

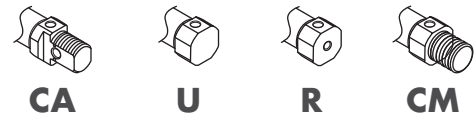




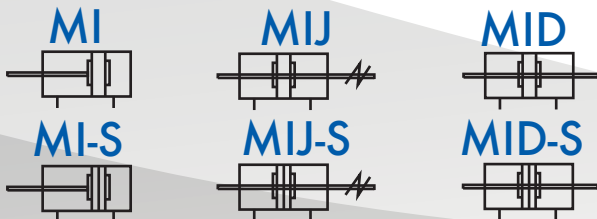
Articulaciones para Cilindro



Tipos de Montaje



Simbología



Especificaciones MI

| Ø Cilindro (mm) | 8 | 10 | 12 | 16 | 20 | 25 | 32 | 40 |
|------------------------------|---|----|----|------|----|----|------|----|
| Tipo de Accionamiento | Doble Efecto | | | | | | | |
| Fluido | Aire (filtrado a 40 µm) | | | | | | | |
| Presión de Trabajo | 0.15 a 1.0 MPa (22 a 145 psi) (1.5 a 10.0 bar) | | | | | | | |
| Presión de Prueba | 1.5 MPa (215 psi) (15 bar) | | | | | | | |
| Temperatura °C | -20 a 70 | | | | | | | |
| Velocidad mm/s | 30 a 800 | | | | | | | |
| Tolerancia de Carrera | 0 a 150 ^{+1.0} ₀ > 0 a 150 ^{+1.5} ₀ | | | | | | | |
| Tamaño de Puerto | M5 x 0.8 | | | 1/8" | | | 1/4" | |
| TPU Sellos Normal -5 a 80 °C | | | | | | | | |

Fuerza de Trabajo

Unidad: Newton(N)

| Ø Cilindro (mm) | Ø Vástago (mm) | Tipo de Accionamiento | Área de Émbolo (mm ²) | Presión de Trabajo (MPa) | | | | | | | |
|-----------------|----------------|-----------------------|-----------------------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | |
| 8 | 4 | Doble Efecto | Avance | 50.2 | 5.0 | 10.1 | 15.1 | 20.1 | 25.1 | 30.1 | 35.2 |
| | | | Retorno | 37.7 | 3.7 | 7.5 | 11.3 | 15.1 | 18.8 | 22.6 | 26.4 |
| 10 | 4 | Doble Efecto | Avance | 78.5 | 7.9 | 15.7 | 23.6 | 31.4 | 39.3 | 47.1 | 55.0 |
| | | | Retorno | 65.9 | 6.6 | 13.2 | 19.8 | 26.4 | 33.0 | 39.5 | 46.1 |
| 12 | 6 | Doble Efecto | Avance | 113.0 | 11.3 | 22.6 | 33.9 | 45.2 | 56.5 | 67.8 | 79.1 |
| | | | Retorno | 84.8 | 8.5 | 17.0 | 25.4 | 33.9 | 42.4 | 50.9 | 59.4 |
| 16 | 6 | Doble Efecto | Avance | 201.0 | 20.1 | 40.2 | 60.3 | 80.4 | 100.5 | 120.6 | 140.7 |
| | | | Retorno | 172.7 | 17.3 | 34.5 | 51.8 | 69.1 | 86.4 | 103.6 | 120.9 |
| 20 | 8 | Doble Efecto | Avance | 314.0 | 31.4 | 62.8 | 94.2 | 125.6 | 157.0 | 188.4 | 219.8 |
| | | | Retorno | 263.8 | 26.4 | 52.8 | 79.1 | 105.5 | 131.9 | 158.3 | 184.7 |
| 25 | 10 | Doble Efecto | Avance | 490.6 | 49.1 | 98.1 | 147.2 | 196.2 | 245.3 | 294.4 | 343.4 |
| | | | Retorno | 412.1 | 41.2 | 82.4 | 123.6 | 164.8 | 206.1 | 247.3 | 288.5 |
| 32 | 12 | Doble Efecto | Avance | 804.3 | 80.4 | 160.9 | 241.3 | 321.7 | 402.2 | 482.6 | 563.0 |
| | | | Retorno | 691.2 | 69.1 | 138.2 | 207.4 | 276.5 | 345.6 | 414.7 | 483.8 |
| 40 | 16 | Doble Efecto | Avance | 1256.6 | 125.7 | 251.3 | 377.0 | 502.6 | 628.3 | 754.0 | 879.6 |
| | | | Retorno | 1055.6 | 105.6 | 211.1 | 316.7 | 422.2 | 527.8 | 633.4 | 738.9 |



Límites de Carrera

| | Ø Cilindro (mm) | Carrera Estándar (mm) | | | | | | | | | | | | | | | Máxima Carrera Estándar | Máxima Carrera | | | | | |
|------------|-----------------|-----------------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-------------------------|----------------|-----|-----|-----|-----|---|
| | | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | | | 200 | 250 | 300 | | |
| MI | 8 | | | | | | | | | | | | | | | | | | 150 | 200 | | | |
| | 10 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | | 200 | 200 | | | |
| | 12 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | | 500 | | | |
| | 16 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | 500 | | |
| | 20 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | 500 | | |
| | 25 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | 500 | | |
| | 32 - 40 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | 500 | | |
| MID MIJ | 8 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | | | | | | | | 100 | - | | |
| | 10 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | | | | | | | | | 100 | - | |
| | 12 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | | | | 200 | - | |
| | 16 - 20 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | | 300 | - |
| | 25 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 75 | 80 | 100 | 125 | 150 | 160 | 175 | 200 | 250 | 300 | | | 300 | - |

Cómo Ordenar

MI 10 x 40 S CA □
MID 10 x 40 S □
MIJ 10 x 40 - 30 S □

① ② ③ ④ ⑤ ⑥ ⑦

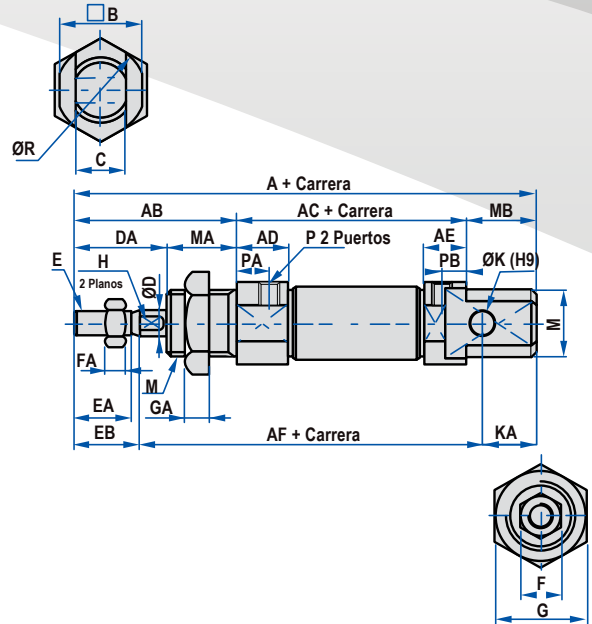
Material Vástago
Acero al Carbón 1045
20 micras de cromo

| ① Modelo | ② Diámetro | ③ Carrera | ④ Ajuste de Carrera | ⑤ Imán | ⑥ Montje Trasero | ⑦ Opciones |
|--|-------------------------------|--|---------------------|-------------|---|---|
| MI: Mini Cilindro (Doble Efecto) | 8, 10, 12, 16, 20, 25, 32, 40 | Tomar referencia de tabla Límites de Carrera | 10 | S: Con Imán | MI: CA Ø8 ~ Ø25 U Ø8 ~ Ø40 R Ø16 ~ Ø40 CM Ø16 ~ Ø40 | Vacio: TPU |
| MID: Mini Cilindro (Double Vástago) | 8, 10, 12, 16, 20, 25, 32, 40 | | 20 | | | HT: Alta Temperatura |
| MIJ: Mini Cilindro (Carrera Ajustable) | 8, 10, 12, 16, 20, 25, 32, 40 | | 30 | | | SR: Rosca especial |
| | | | 40 | | | SSR: Vástago de Acero Inoxidable 304 |
| | | | 50 | | | EXV: Extensión de vástago |
| | | | 75 | | | EXC: Extensión de cuerda |
| | | | 100 | | | AG: Anti Giro |
| | | | | | | TC: Trunion |

Dimensiones MI

| Ø Cilindro (mm) | A | | | | AE | | | | AF | B | C | D | DA | E | |
|-----------------|-----------------|-------|-----|-----|----|----|--------|--------|------|-------|------|----|----|----|------------|
| | Montaje Trasero | CA | U | R | CM | CA | U/R/CM | U/R/CM | | | | | | | |
| 8 | 86 | 74 | | | 28 | 46 | 11.5 | 9.5 | 9.5 | 64 | 15 | 8 | 4 | 16 | M4 x 0.7 |
| 10 | 86 | 74 | | | 28 | 46 | 11.5 | 9.5 | 9.5 | 64 | 15 | 8 | 4 | 16 | M4 x 0.7 |
| 12 | 105 | 88 | | | 38 | 50 | 12.5 | 10.5 | 10.5 | 75 | 18 | 12 | 6 | 21 | M6 x 1.0 |
| 16 | 111 | 94 | 94 | 111 | 38 | 56 | 12.5 | 10.5 | 10.5 | 82 | 20 | 12 | 6 | 21 | M6 x 1.0 |
| 20 | 126 | 106 | 106 | 126 | 44 | 62 | 14.5 | 14.5 | 14.5 | 95.5 | 25 | 16 | 8 | 24 | M8 x 1.25 |
| 25 | 137 | 114.5 | 115 | 137 | 50 | 65 | 16 | 16 | 16 | 104.5 | 30 | 16 | 10 | 28 | M10 x 1.25 |
| 32 | | 125 | 126 | 140 | 58 | | 16.5 | | 16.5 | | 34.5 | 12 | 28 | | M10 x 1.25 |
| 40 | | 158 | 158 | 174 | 69 | | 22 | | 22 | | 42.5 | 16 | 34 | | M12 x 1.25 |

| EA | EB | F | FA | G | GA | K | KA | M | MA | MB | P | PA | CA | PB | R |
|------|------|----|----|----|----|---|----|------------|----|----|----------|-----|-----|---------|------|
| 10.5 | 12 | 7 | 3 | 17 | 6 | 4 | 10 | M12 x 1.25 | 12 | 12 | M5 x 0.8 | 7 | 5 | 5 | 17 |
| 10.5 | 12 | 7 | 3 | 17 | 6 | 4 | 10 | M12 x 1.25 | 12 | 12 | M5 x 0.8 | 7 | 5 | 5 | 17 |
| 14.5 | 16 | 10 | 5 | 22 | 6 | 6 | 14 | M16 x 1.5 | 17 | 17 | M5 x 0.8 | 8 | 6 | 6 | 20 |
| 14.5 | 16 | 10 | 5 | 22 | 6 | 6 | 13 | M16 x 1.5 | 17 | 17 | M5 x 0.8 | 8 | 6 | 6 | 22 |
| 18 | 19.5 | 12 | 6 | 29 | 7 | 8 | 11 | M22 x 1.5 | 20 | 20 | 1/8" | 7.5 | 7.5 | 7.5 | 29 |
| 20 | 21.5 | 17 | 6 | 29 | 7 | 8 | 11 | M22 x 1.5 | 22 | 22 | 1/8" | 8 | 8 | 8 | 33.5 |
| 18.5 | 20 | 17 | 6 | 36 | 7 | | | M30 x 1.5 | 30 | 14 | 1/8" | 9 | | 8/9 | 37.5 |
| 22.5 | 24 | 17 | 7 | 46 | 8 | | | M38 x 1.5 | 35 | 16 | 1/4" | 12 | | 11.5/12 | 46.5 |



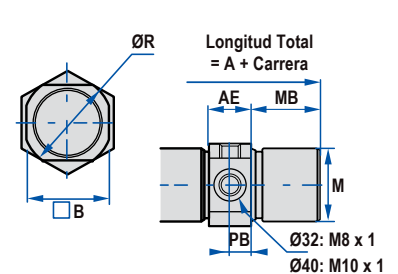
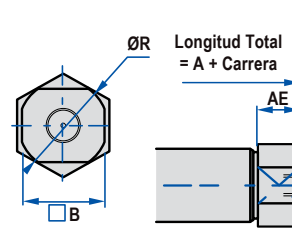
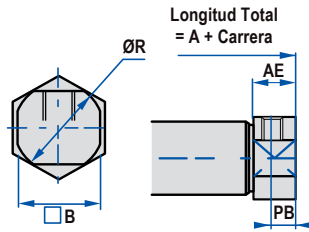
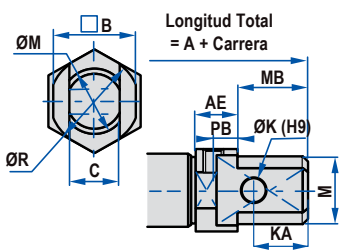
Montajes Traseros

Tipo CA

Tipo U

Tipo R

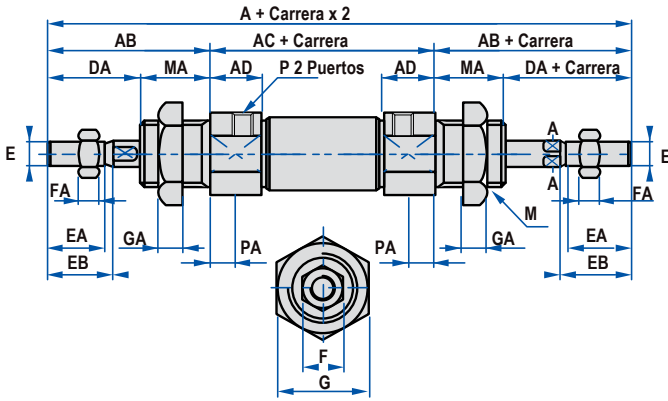
Tipo CM



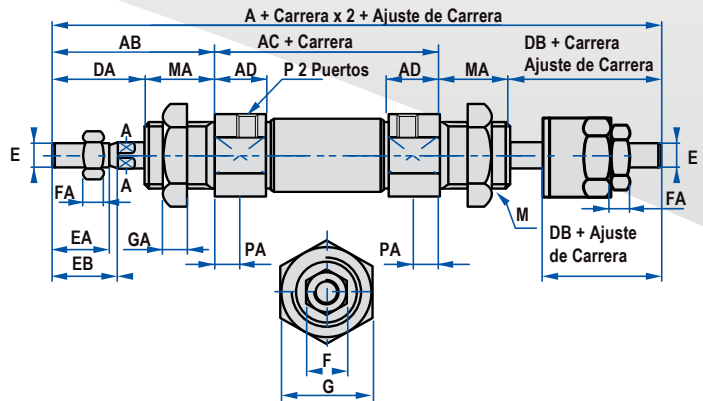
Dimensiones Montajes Traseros

| Ø Cilindro (mm) | A | | | | AE | | B | F | G | K | KA | M | MB | PB | | R |
|-----------------|-----------------|-------|-----|-----|------|--------|------|----|----|---|----|------------|----|-----|---------|------|
| | Montaje Trasero | CA | U | R | CA | U/R/CM | | | | | | | | CA | U/CM | |
| 8 | 86 | 74 | | | 9.5 | 9.5 | 15 | 7 | 17 | 4 | 10 | M12 x 1.25 | 12 | 5 | 5 | 17 |
| 10 | 86 | 74 | | | 9.5 | 9.5 | 15 | 7 | 17 | 4 | 10 | M12 x 1.25 | 12 | 5 | 5 | 17 |
| 12 | 105 | 88 | | | 10.5 | 10.5 | 18 | 10 | 22 | 6 | 14 | M16 x 1.5 | 17 | 6 | 6 | 20 |
| 16 | 111 | 94 | 94 | 111 | 10.5 | 10.5 | 20 | 10 | 22 | 6 | 13 | M16 x 1.5 | 17 | 6 | 6 | 22 |
| 20 | 126 | 106 | 106 | 126 | 14.5 | 14.5 | 25 | 12 | 29 | 8 | 11 | M22 x 1.5 | 20 | 7.5 | 7.5 | 29 |
| 25 | 137 | 114.5 | 115 | 137 | 16 | 16 | 30 | 17 | 29 | 8 | 11 | M22 x 1.5 | 22 | 8 | 8 | 33.5 |
| 32 | | 125 | 126 | 140 | | 16.5 | 34.5 | 17 | 36 | | | M30 x 1.5 | 14 | | 8/9 | 37.5 |
| 40 | | 158 | 158 | 174 | | 22 | 42.5 | 17 | 46 | | | M38 x 1.5 | 16 | | 11.5/12 | 46.5 |

MID



MIJ

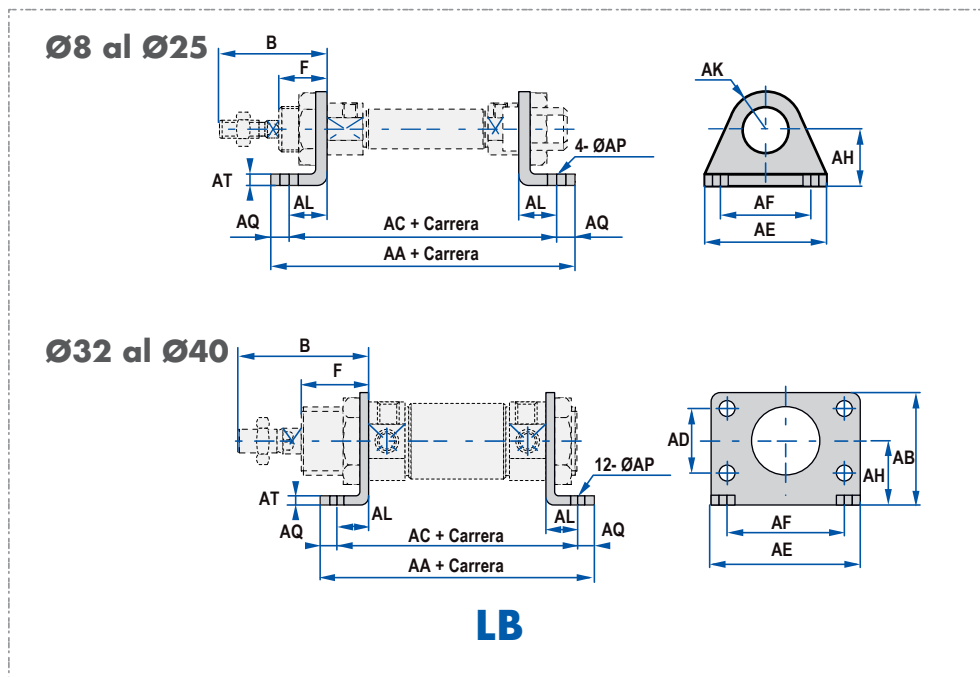


**Dimensiones MID Doble Vástago
MIJ Ajuste de Carrera**

| Ø Cilindro (mm) | A (MID) | A (MIJ) | AB | AC | AD | D | DA | DB | E | EA | EB | F | FA | G | GA | M | MA | P | PA |
|-----------------|---------|---------|----|----|------|----|----|----|------------|------|------|----|----|----|----|------------|----|----------|-----|
| 8 | 104 | 103 | 28 | 48 | 11.5 | 4 | 16 | 15 | M4 x 0.7 | 10.5 | 12 | 7 | 3 | 17 | 6 | M12 x 1.25 | 12 | M5 x 0.8 | 7 |
| 10 | 104 | 103 | 28 | 48 | 11.5 | 4 | 16 | 15 | M4 x 0.7 | 10.5 | 12 | 7 | 3 | 17 | 6 | M12 x 1.25 | 12 | M5 x 0.8 | 7 |
| 12 | 128 | 128 | 38 | 52 | 12.5 | 6 | 21 | 21 | M6 x 1.0 | 14.5 | 16 | 10 | 5 | 22 | 6 | M16 x 1.5 | 17 | M5 x 0.8 | 8 |
| 16 | 134 | 134 | 38 | 58 | 12.5 | 6 | 21 | 21 | M6 x 1.0 | 14.5 | 16 | 10 | 5 | 22 | 6 | M16 x 1.5 | 17 | M5 x 0.8 | 8 |
| 20 | 150 | 151 | 44 | 62 | 14.5 | 8 | 24 | 25 | M8 x 1.25 | 18 | 19.5 | 12 | 6 | 29 | 7 | M22 x 1.5 | 20 | 1/8" | 7.5 |
| 25 | 165 | 164 | 50 | 65 | 16 | 10 | 28 | 27 | M10 x 1.25 | 20 | 21.5 | 17 | 6 | 29 | 7 | M22 x 1.5 | 22 | 1/8" | 8 |
| 32 | 184 | 183 | 58 | 68 | 16.5 | 12 | 28 | 27 | M10 x 1.25 | 18.5 | 20 | 17 | 6 | 36 | 7 | M30 x 1.5 | 30 | 1/8" | 9 |
| 40 | 227 | 222 | 69 | 89 | 22 | 16 | 34 | 29 | M12 x 1.25 | 22.5 | 24 | 17 | 7 | 46 | 8 | M38 x 1.5 | 35 | 1/4" | 12 |

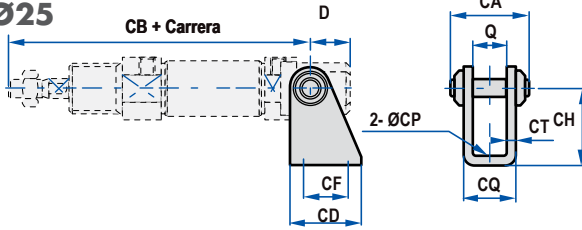
Código de Accesorios

| Ø Cilindro (mm) | Montajes | | | | | | | | Horquillas | | | | Sensor Switch | |
|-----------------|----------|----------|-----------|----------|------------|------------|------------|------------|------------|---------|--|--|---------------|--|
| | LB | FA | SDB | TC | I | Y | F | U | CMSG | DMSG(S) | | | | |
| 8 | F-MI10LB | F-MI8FA | F-MI8SDB | F-MI10TC | F-M4X070I | F-M4X070Y | F-M4X070F | F-M4X070U | CMSG | DMSG(S) | | | | |
| 10 | | | | | | | | | | | | | | |
| 12 | F-MI12LB | F-MI12FA | F-MI12SDB | F-MI12TC | F-M6X100I | F-M6X100Y | F-M6X100F | F-M6X100U | | | | | | |
| 16 | | | | | | | | | | | | | | |
| 20 | F-MI20LB | F-MI20FA | F-MI20SDB | F-MI20TC | F-M8X125I | F-M8X125Y | F-M8X125F | F-M8X125U | | | | | | |
| 25 | | | | | F-M10X125I | F-M10X125Y | F-M10X125F | F-M10X125U | | | | | | |
| 32 | F-MI32LB | - | F-MI32SDB | F-MI32TC | | | | | | | | | | |
| 40 | F-MI40LB | - | F-MI40SDB | F-MI40TC | F-M12X125I | F-M12X125Y | F-M12X125F | F-M12X125U | | | | | | |

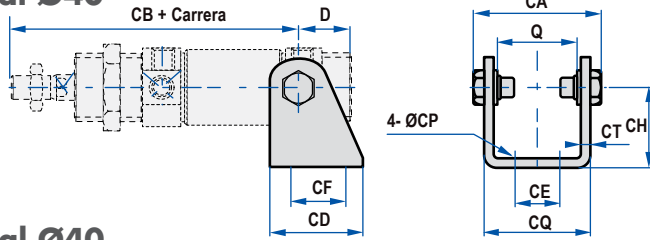


| Ø Cilindro (mm) | AA | AB | AC | AD | AE | AF | AH | AK | AL | AP | AQ | AT | B | F |
|-----------------|-----|----|-----|----|----|----|----|----|----|-----|----|-----|----|----|
| 8 | 78 | - | 68 | - | 35 | 25 | 16 | 10 | 11 | 4.5 | 5 | 2 | 28 | 12 |
| 10 | 78 | - | 68 | - | 35 | 25 | 16 | 10 | 11 | 4.5 | 5 | 2 | 28 | 12 |
| 12 | 90 | - | 78 | - | 42 | 32 | 20 | 13 | 14 | 5.5 | 6 | 2.5 | 38 | 17 |
| 16 | 96 | - | 84 | - | 42 | 32 | 20 | 13 | 14 | 5.5 | 6 | 2.5 | 38 | 17 |
| 20 | 112 | - | 96 | - | 54 | 40 | 25 | 20 | 17 | 7 | 8 | 3 | 44 | 20 |
| 25 | 115 | - | 99 | - | 54 | 40 | 25 | 20 | 17 | 7 | 8 | 3 | 50 | 22 |
| 32 | 110 | 49 | 96 | 28 | 66 | 52 | 28 | - | 14 | 7 | 7 | 3.5 | 58 | 30 |
| 40 | 149 | 58 | 129 | 30 | 80 | 60 | 33 | - | 20 | 9 | 10 | 3.5 | 69 | 35 |

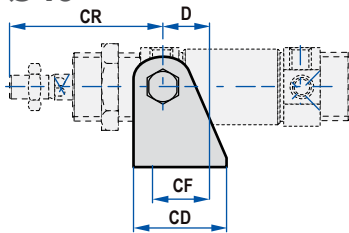
Ø8 al Ø25



Ø32 al Ø40



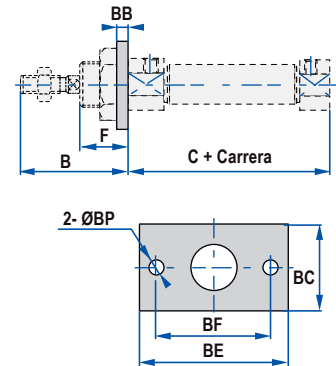
Ø32 al Ø40



SDB

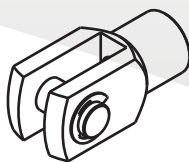
| Ø Cilindro (mm) | D | Q | CA | CB | CD | CE | CF | CH | CP | CQ | CT | CR |
|-----------------|----|------|------|-----|----|----|------|----|-----|------|-----|----|
| 8 | 11 | 8.1 | 16.4 | 76 | 20 | - | 12.5 | 24 | 4.5 | 12.1 | 2 | - |
| 10 | 11 | 8.1 | 16.4 | 76 | 20 | - | 12.5 | 24 | 4.5 | 12.1 | 2 | - |
| 12 | 13 | 12.1 | 26 | 91 | 25 | - | 15 | 27 | 5.5 | 16.1 | 2 | - |
| 16 | 13 | 12.1 | 26 | 98 | 25 | - | 15 | 27 | 5.5 | 16.1 | 2 | - |
| 20 | 16 | 16.1 | 35 | 115 | 32 | - | 20 | 30 | 7 | 21.1 | 2.5 | - |
| 25 | 16 | 16.1 | 35 | 126 | 32 | - | 20 | 30 | 7 | 21.1 | 2.5 | - |
| 32 | 20 | 34.6 | 53.6 | 117 | 41 | 20 | 24 | 35 | 7 | 44.6 | 3 | 67 |
| 40 | 27 | 42.6 | 65.6 | 146 | 52 | 28 | 30 | 40 | 9 | 54.6 | 3 | 81 |

Ø8 al Ø25



FA

| Ø Cilindro (mm) | B | C | BB | BC | BE | BF | BP | F |
|-----------------|----|----|-----|----|----|----|-----|----|
| 8 | 28 | 46 | 2 | 22 | 40 | 30 | 4.5 | 12 |
| 10 | 28 | 46 | 2 | 22 | 40 | 30 | 4.5 | 12 |
| 12 | 38 | 50 | 3 | 26 | 52 | 40 | 5.5 | 17 |
| 16 | 38 | 56 | 3 | 26 | 52 | 40 | 5.5 | 17 |
| 20 | 44 | 62 | 3.5 | 38 | 64 | 50 | 7 | 20 |
| 25 | 50 | 65 | 3.5 | 38 | 64 | 50 | 7 | 22 |



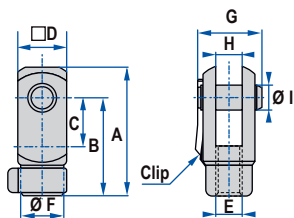
Horquilla Hembra Y

Cómo Ordenar

F M16 x 150 Y

① ② ③ ④

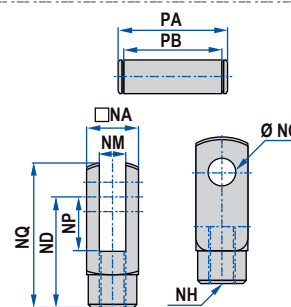
| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|---------------------|
| | M3 | 050: 0.5mm | Y: Horquilla Hembra |
| | M4 | 070: 0.7mm | |
| | M5 | 080: 0.8mm | |
| | M6 | 100: 1.0mm | |
| | M8 | 125: 1.25mm | |
| | M10 | | |
| | M12 | | |



Dimensiones M10 y Menores

| Item | A | B | C | D | F |
|------------|------|----|------|----|----|
| F-M3X050Y | 15.5 | 12 | 5 | 6 | 6 |
| F-M4X070Y | 22 | 16 | 8 | 8 | 7 |
| F-M5X080Y | 28 | 21 | 10.2 | 12 | 10 |
| F-M6X100Y | 32 | 24 | 12 | 12 | 10 |
| F-M8X125Y | 42 | 32 | 16 | 16 | 14 |
| F-M10X125Y | 52 | 40 | 20 | 19 | 18 |

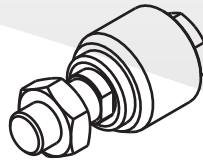
| Item | E | G | H | I |
|------------|----------|------|-----|----|
| F-M3X050Y | M3x0.5 | 9 | 3 | 3 |
| F-M4X070Y | M4x0.7 | 11.5 | 4 | 4 |
| F-M5X080Y | M5x0.8 | 15.5 | 6.5 | 5 |
| F-M6X100Y | M6x1.0 | 16 | 6 | 6 |
| F-M8X125Y | M8x1.25 | 21 | 8 | 8 |
| F-M10X125Y | M10x1.25 | 25 | 10 | 10 |



Dimensiones Resto

| Item | NA | NC | ND | NP | NQ |
|------------|------|----|----|----|----|
| F-M12x125Y | 25.4 | 12 | 48 | 24 | 62 |

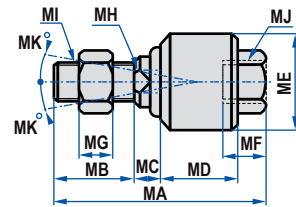
| Item | NM | NH | PA | PB |
|------------|----|----------|------|------|
| F-M12x125Y | 12 | M12x1.25 | 32.4 | 26.2 |



Junta Flotante F

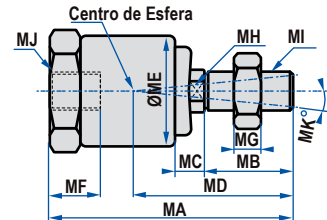
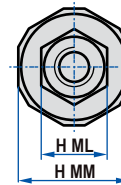
Cómo Ordenar

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|-------------------|
| F | M16 x 150 | F | F: Junta Flotante |
| ① | M4 | 070: 0.7mm | |
| ② | M5 | 080: 0.8mm | |
| ③ | M6 | 100: 1.0mm | |
| ④ | M8 | 125: 1.25mm | |
| | M10 | | |
| | M12 | | |



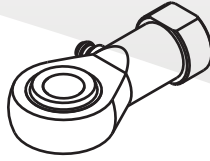
Dimensiones M8 y mayores

| Item | MA | MB | MC | MD | ME | MF | MG | MH | MI\MJ | MK |
|------------|----|----|----|----|----|------|----|----|----------|----|
| F-M8x125F | 51 | 20 | 6 | 17 | 24 | 10.5 | 6 | 8 | M8x1.25 | 13 |
| F-M10x125F | 58 | 22 | 7 | 21 | 26 | 11 | 6 | 10 | M10x1.25 | 12 |
| F-M12x125F | 58 | 22 | 8 | 21 | 28 | 11.5 | 7 | 12 | M12x1.25 | 12 |



Dimensiones M6 y menores

| Item | MA | MB | MC | MD | ME | MF | MG | MH | MI\MJ | ML | MM |
|-----------|------|------|-----|------|------|-----|-----|----|--------|-----|----|
| F-M3x050F | 23.5 | 7.5 | 3 | 15 | 12.8 | 5.5 | 2.4 | 4 | M3x0.5 | 5.5 | 13 |
| F-M4x070F | 26 | 9.5 | 3 | 17 | 12.8 | 6 | 3 | 4 | M4x0.7 | 7 | 13 |
| F-M5x080F | 34.5 | 13.5 | 3.5 | 22.8 | 13.8 | 8 | 4 | 6 | M5x0.8 | 8 | 14 |
| F-M6x100F | 34.5 | 13.5 | 3.5 | 22.8 | 13.8 | 8 | 4 | 6 | M6x1.0 | 10 | 14 |

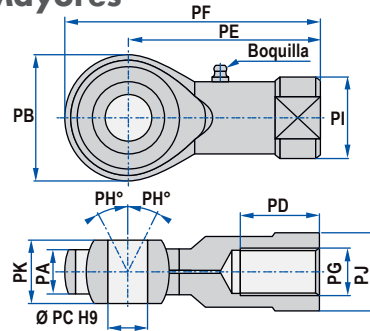


Rótula U

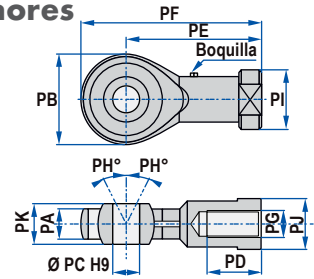
Cómo Ordenar

| | | | | |
|--------------------|-----|---------------------|-----------------|-----------|
| | F | M16 x 150 | U | |
| | ① | ② | ③ | ④ |
| ① Código Accesorio | | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
| | M4 | 070: 0.7mm | | U: Rótula |
| | M5 | 080: 0.8mm | | |
| | M6 | 100: 1.0mm | | |
| | M8 | 125: 1.25mm | | |
| | M10 | | | |
| | M12 | | | |

M10 y Mayores

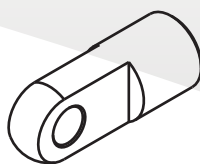


M8 y Menores



Dimensiones

| Item | PA | PB | PC | PD | PE | PF | PG | PH | PI | PJ | PK |
|------------|-----|----|----|----|----|----|----------|----|------|----|----|
| F-M4x070U | 6 | 18 | 5 | 10 | 27 | 36 | M4x0.7 | 13 | 12.5 | 10 | 8 |
| F-M5x080U | 6 | 18 | 5 | 10 | 27 | 36 | M5x0.8 | 13 | 12.5 | 10 | 8 |
| F-M6x100U | 6.8 | 20 | 6 | 12 | 30 | 40 | M6x1.0 | 13 | 13 | 11 | 9 |
| F-M8x125U | 9 | 24 | 8 | 16 | 36 | 48 | M8x1.25 | 13 | 16 | 14 | 12 |
| F-M10x125U | 11 | 26 | 10 | 20 | 43 | 56 | M10x1.25 | 13 | 19 | 17 | 14 |
| F-M12x125U | 12 | 32 | 12 | 22 | 50 | 66 | M12x1.25 | 13 | 22 | 19 | 16 |



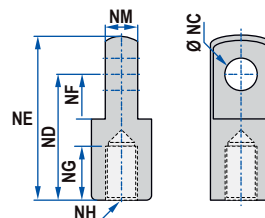
Horquilla I Macho

Cómo Ordenar

F M16 x 150 I

① ② ③ ④

| ① Código Accesorio | ② Rosca de Tornillo | ③ Paso de Rosca | ④ Código |
|--------------------|---------------------|-----------------|----------------------|
| | M6 | 100: 1.0mm | I: Horquilla I Macho |
| | M8 | 125: 1.25mm | |
| | M10 | | |
| | M12 | | |



Dimensiones

| Item | NC | ND | NE | NF | NG | NH | NM |
|------------|----|----|----|-----|----|----------|----|
| F-M6x100I | 6 | 21 | 28 | 8.5 | 8 | M6x1.0 | 6 |
| F-M8x125I | 8 | 30 | 40 | 11 | 15 | M8x1.25 | 8 |
| F-M10x125I | 10 | 40 | 50 | 15 | 20 | M10x1.25 | 10 |
| F-M12x125I | 12 | 48 | 62 | 24 | 20 | M12x1.25 | 12 |