



Tabla para carrera estándar

| D.I. Tubo | Carrera (mm) | Carrera larga (mm) | Máx. carrera (mm) |
|-----------|----------------------------------|--------------------|-------------------|
| ø20 | 25,50,75,100,125,150,200 | 201~350 | 1200 |
| ø25 | 25,50,75,100,125,150,200,250,300 | 301~400 | |
| ø32 | | 301~450 | |
| ø40 | | 301~800 | |
| ø50 | | 301~1200 | |
| ø63 | 25,50,75,100,125,150,200,250,300 | 301~500 | 500 |
| ø80 | | 301~500 | |
| ø100 | | 301~500 | |

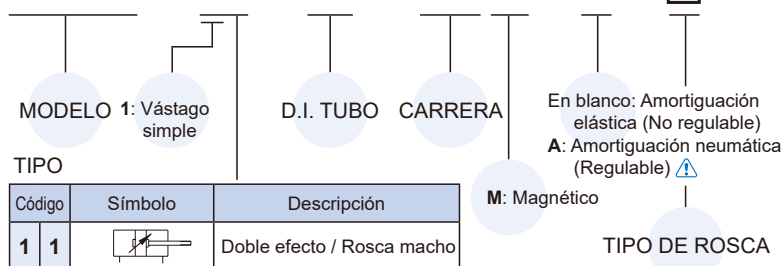
* Carrera intermedia disponible, consúltenos.

Especificaciones

| Modelo | MCCG | | | | | | | | |
|--|-------------------------------|-------|-------|-------|-------|-------|-------|--------|------|
| Tipo de acción | Doble efecto | | | | | | | | |
| D.I. Tubo (mm) | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | |
| Tam. puerto | Rc1/8 | | | Rc1/4 | | | Rc3/8 | Rc1/2 | |
| Medio | Aire | | | | | | | | |
| Presión de funcionamiento máx. | 1 MPa | | | | | | | | |
| Presión de funcionamiento mín. | 0.05 MPa | | | | | | | | |
| Presión de prueba | 1.5 MPa | | | | | | | | |
| Lubricación | No requerida | | | | | | | | |
| Temperatura ambiente | -5~+60°C (Sin congelación) | | | | | | | | |
| Rango de velocidad disponible | 50~500 mm/seg. | | | | | | | | |
| Energía cinética máx. admisible (J) | Disco de amortiguación | 0.07 | 0.10 | 0.17 | 0.3 | 0.5 | 0.85 | 1.48 | 2.48 |
| | Amortiguación neumática | 0.09 | 0.14 | 0.23 | 0.45 | 0.85 | 1.23 | 2.95 | 4.18 |
| Sensor final de carrera | RCM (Consulte la página 8-16) | | | | | | | | |
| Abrazadera del sensor final de carrera | BMG20 | BMG25 | BMG32 | BMG40 | BMG50 | BMG63 | BMG80 | BMG100 | |

Ejemplo de pedido

MCCG — 11 — 40 — 100M — A — □



* Consulte la pág. 0-7 para ver un ejemplo de pedido con especificaciones especiales.

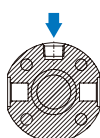
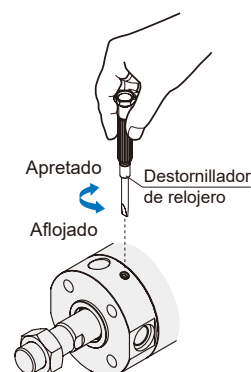
* Por favor consúltenos para el ejemplo de pedido de la rosca G.

Precaución

Para (A) Amortiguación neumática (regulable)

1. Para ajustar el tornillo de amortiguación, gire la válvula de aguja del estado completamente cerrado hacia el estado requerido estados cuyos giros deben estar dentro de 2.5 etapas.

2. Si la válvula de aguja se afloja excesivamente, el tipo no puede surtir efecto y la vida útil del cilindro puede acortarse.



■ Accesorios de montaje

| Accesorios | | | | | | |
|----------------------|-------------------------|-----------|------------|-----|---------------------------------|---------------------------------|
| Código | LB (Compra 2 piezas) | CB | FAC | FBC | SDB-R* ¹ (con TA) | SDB-H* ¹ (con TB) |
| Montaje D.I. tubo | | | | | | |
| ø20 | LB-C1-20 | CB-C1-20 | FAC-C1-20 | | SDB-C1-20 | |
| ø25 | LB-C1-25 | CB-C1-25 | FAC-C1-25 | | SDB-C1-25 | |
| ø32 | LB-C1-32 | CB-C1-32 | FAC-C1-32 | | SDB-C1-32 | |
| ø40 | LB-C1-40 | CB-C1-40 | FAC-C1-40 | | SDB-C1-40 | |
| ø50 | LB-C1-50 | CB-C1-50 | FAC-C1-50 | | SDB-C1-50 | |
| ø63 | LB-C1-63 | CB-C1-63 | FAC-C1-63 | | SDB-C1-63 | |
| ø80 | LB-C1-80 | CB-C1-80 | FAC-C1-80 | | - | |
| ø100 | LB-C1-100 | CB-C1-100 | FAC-C1-100 | | - | |

| Accesorios | | | | | Conector | |
|----------------------|---------------------------------------|---------------------------------------|-------------------------------|-----------------------------|----------|----------|
| Código | CB+SDB* ¹ (con Pasador) | CB+SDB* ¹ (con Pasador) | TA (Muñón parte delantera) | TB (Muñón parte trasera) | Y | I |
| Montaje D.I. tubo | | | | | | |
| ø20 | CB+SDB-C1-20 | - | TA-C1-20 | - | Y-C1-20 | I-C1-20 |
| ø25 | CB+SDB-C1-25 | - | TA-C1-25 | - | Y-C1-25 | I-C1-25 |
| ø32 | CB+SDB-C1-32 | - | TA-C1-32 | - | Y-C1-25 | I-C1-25 |
| ø40 | CB+SDB-C1-40 | - | TA-C1-40 | - | Y-C1-40 | I-C1-40 |
| ø50 | CB+SDB-C1-50 | - | TA-C1-50 | - | Y-C1-50 | I-C1-50 |
| ø63 | CB+SDB-C1-63 | - | TA-C1-63 | - | Y-C1-50 | I-C1-50 |
| ø80 | - | CB+SDB-C1-80 | - | - | Y-C1-80 | I-C1-80 |
| ø100 | - | CB+SDB-C1-100 | - | - | Y-C1-100 | I-C1-100 |

*1. Consulte la pág. 3-90 para los procedimientos de montaje.

■ Pasador

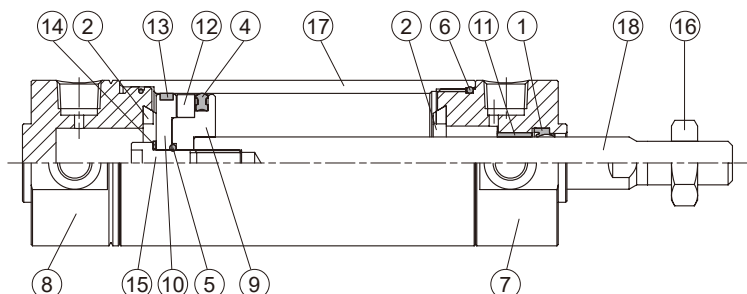
| Tuerca del vástago | |
|----------------------|---------------------|
| Código | NUT |
| Montaje D.I. tubo | |
| ø20 | NUT-M8x1.25x5Hx13B |
| ø25 | NUT-M10x1.25x6Hx17B |
| ø32 | NUT-M14x1.5x8Hx22B |
| ø40 | NUT-M14x1.5x8Hx22B |
| ø50 | NUT-M18x1.5x11Hx26B |
| ø63 | NUT-M18x1.5x11Hx26B |
| ø80 | NUT-M22x1.5x13Hx32B |
| ø100 | NUT-M26x1.5x14Hx35B |

| Aplicable | Conector Yyl | Accesorios CB |
|-------------------|----------------------------------|-----------------------------------|
| Código | PIN-Y-P (Con anillo elástico) | PIN-CB-P (Con anillo elástico) |
| Higo D.I. tubo | | |
| ø20 | PIN-C1-20-2-P | PIN-C1-20-1-P |
| ø25 | PIN-C1-25-2-P | PIN-C1-25-1-P |
| ø32 | | PIN-C1-32-1-P |
| ø40 | PIN-C1-40-2-P | PIN-C1-40-1-P |
| ø50 | PIN-C1-50-2-P | PIN-C1-50-1-P |
| ø63 | | PIN-C1-63-1-P |
| ø80 | PIN-C1-80-1-P | |
| ø100 | PIN-C1-100-1-P | |

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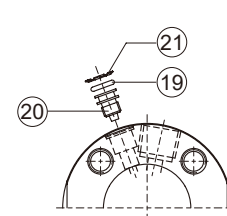
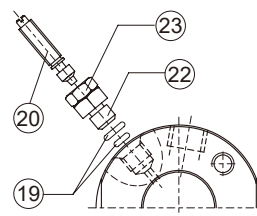
Amortiguación elástica

No regulable



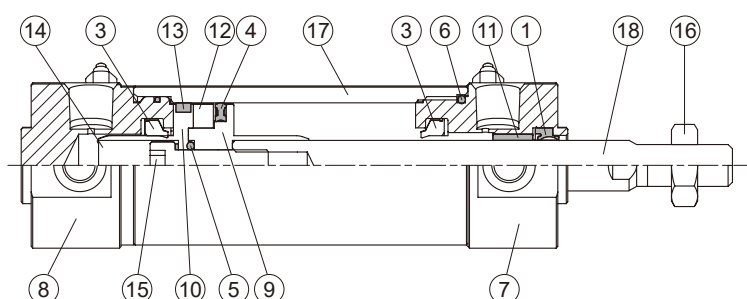
ø20~ø32

ø50



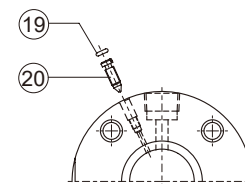
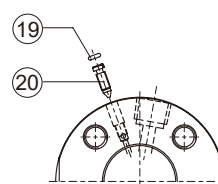
Amortiguación neumática

Regulable



ø40, ø63

ø80, ø100



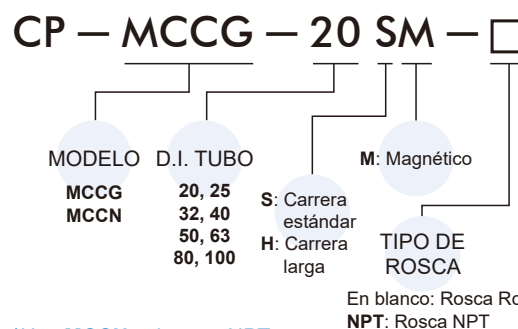
Material

A: Componentes, B: Kits de reparación

| Núm. | Amortiguación | | Nombre de la pieza | Material | Cant. | A B | | Notas |
|------|---------------|------|------------------------------------|----------------------|-------|-------------|---|-------------------------|
| | Elástica | Aire | | | | (incluidos) | | |
| 1 | ● | ● | Juntas del vástago | NBR | 1 | ● | ● | |
| 2 | ● | ● | Amortiguación elástica | NBR | 2 | ● | ● | |
| 3 | ● | ● | Amortiguación elástica | NBR | 2 | ● | ● | |
| 4 | ● | ● | Juntas del pistón | NBR | 1 | ● | ● | |
| 5 | ● | ● | Junta tórica | NBR | 1 | ● | ● | |
| 6 | ● | ● | Junta tórica | NBR | 1 o 2 | ● | ● | ø50~100 (Cant.=2) |
| 7 | ● | ● | Cubierta del vástago | Aleación de aluminio | 1 | ● | | |
| 8 | ● | ● | Culata | Aleación de aluminio | 1 | ● | | |
| 9 | ● | ● | Pistón-R | Aleación de aluminio | 1 | ● | | |
| 10 | ● | ● | Pistón H | Aleación de aluminio | 1 | ● | | |
| 11 | ● | ● | Casquillo | Aleación de cojinete | 1 | ● | | |
| 12 | ● | ● | Anillo magnético | Material magnético | 1 | ⊙ | | ⊙ Opcional |
| | | | Anillo espaciador | Aleación de aluminio | 1 | ● | | para ø20~ø32 |
| 13 | ● | ● | Anillo de desgaste | Resina | 1 | ● | | |
| 14 | ● | ● | Arandela | Acero al carbono | 1 | ● | | ø20 sin |
| 15 | ● | ● | Tornillo del pistón | Acero al carbono | 1 | ● | | |
| 16 | ● | ● | Tuerca | Acero al carbono | 1 | ● | | |
| 17 | ● | ● | Tubo cilíndrico | Aleación de aluminio | 1 | | | |
| 18 | ● | ● | Vástago del pistón | Acero al carbono | 1 | | | ø20-25 acero inoxidable |
| 19 | ● | ● | Junta tórica | NBR | 4 o 2 | | | ø40-80 (Cant.=2) |
| 20 | ● | ● | Válvula de aguja | Acero inoxidable | 2 | | | *1 |
| 21 | ● | ● | Juntas válvula de aguja | Acero al carbono | 2 | | | Solo para ø50 |
| 22 | ● | ● | Tuerca fija de la válvula de aguja | Acero inoxidable | 2 | | | solo para ø20-32 |
| 23 | ● | ● | Tuerca hex. | Acero al carbono | 2 | | | solo para ø20-32 |

*1. ø50: Cobre, ø63~100: Acero al carbono

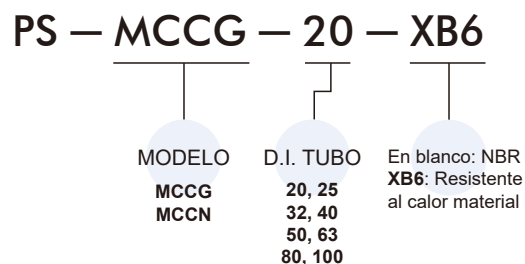
Ejemplo de pedido de componentes

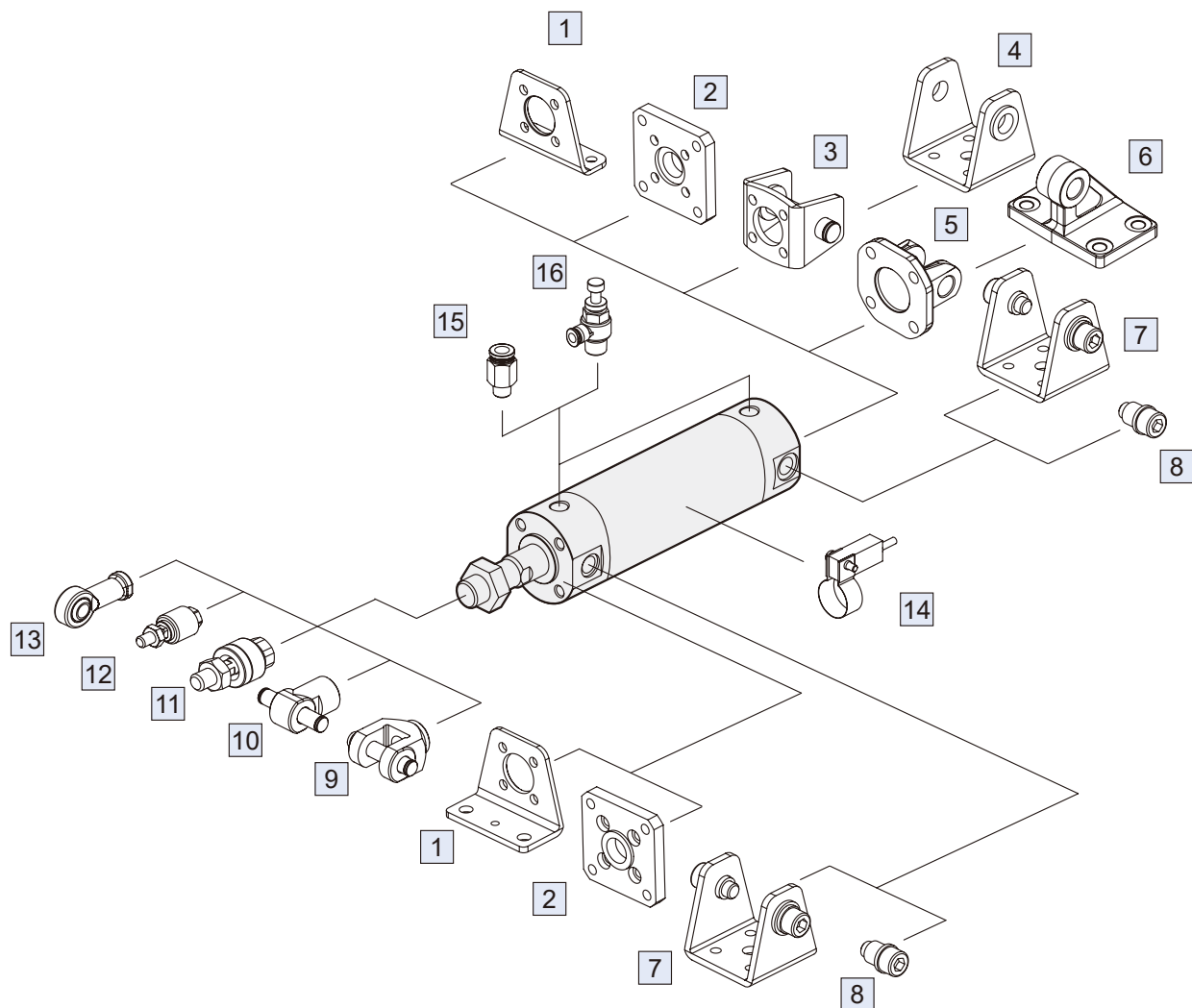


*Use MCCN solo para NPT.

* Por favor consúltenos para el ejemplo de pedido de la rosca G.

Ejemplo de pedido de kits de reparación





| Núm. | Accesorios | Material | Pág. |
|------|---------------------------------|--------------------------|----------|
| 1 | Accesorios de montaje LB | Acero al carbono | 3-87 |
| 2 | Accesorios de montaje FAC/FBC | Acero al carbono | 3-87 |
| 3 | Accesorios de montaje CB+PIN *1 | Acero al carbono | 3-88, 91 |
| 4 | Accesorios de montaje SDB *1 | Acero al carbono | 3-89 |
| 5 | Accesorios de montaje CB+PIN *2 | Fundición de hierro / *3 | 3-88, 91 |
| 6 | Accesorios de montaje SDB *2 | Fundición de hierro | 3-89 |
| 7 | Accesorios de montaje SDB-R/H | Acero al carbono | 3-89 |
| 8 | Accesorios de montaje TA/TB | Acero al carbono | 3-90 |

| Núm. | Accesorios | Material | Pág. |
|------|--------------------------------------|------------------|--------------|
| 9 | Accesorios Y+PIN | Acero al carbono | 3-91 |
| 10 | Accesorios I+PIN | Acero al carbono | 3-91 |
| 11 | Junta flotante MFC | Acero al carbono | 8-2 |
| 12 | Junta flotante MFCS | Acero al carbono | 8-5 |
| 13 | Rótula PHS | Acero al carbono | 8-6 |
| 14 | Sensor final de carrera RCM+BMG** | — | 8-16 |
| 15 | Racor PC (PISCO) | — | 7-3 (Vol.1) |
| 16 | Controlador de velocidad JSC (PISCO) | — | 7-15 (Vol.1) |

*1. Para tubo con D.I. $\varnothing 20-63$

*2. Para tubo con D.I. $\varnothing 80,100$

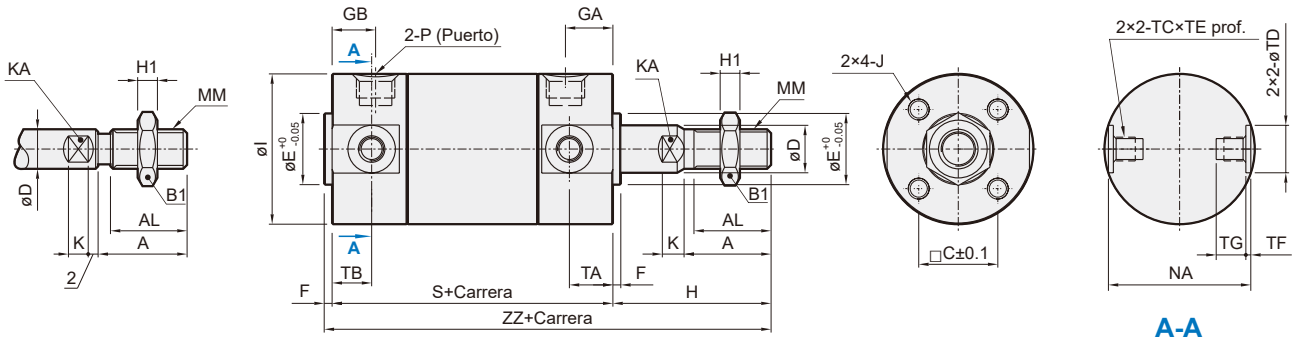
*3. PIN el material es acero al carbono.

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mindman

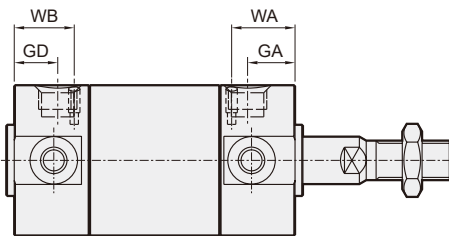
$\varnothing 20, \varnothing 25$

$\varnothing 32 \sim \varnothing 100$



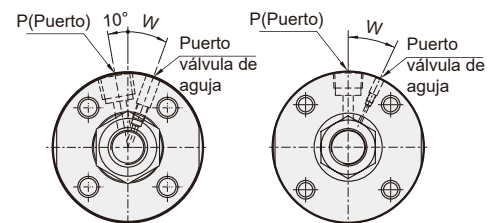
Con amortiguación neumática (regulable)

A



$\varnothing 20 \sim \varnothing 63$

$\varnothing 80, \varnothing 100$



| Código D.I. Tubo | Rango de carrera estándar | Rango de carrera larga | A | AL | B1 | C | D | E | F | GA | GB | GD | H | H1 | I | J | K | KA |
|------------------|---------------------------|------------------------|----|------|----|------|----|----|---|----|---------|---------|----|----|-----|-------------------|-----|----|
| 20 | ~200 | 201~350 | 18 | 15.5 | 13 | 14 | 8 | 12 | 2 | 12 | 12 (12) | 12 (12) | 35 | 5 | 26 | M4×0.7×7 prof. | 4 | 6 |
| 25 | ~300 | 301~400 | 22 | 19.5 | 17 | 16.5 | 10 | 14 | 2 | 12 | 12 (12) | 12 (12) | 40 | 6 | 31 | M5×0.8×7.5 prof. | 5 | 8 |
| 32 | ~300 | 301~450 | 22 | 19.5 | 17 | 20 | 12 | 18 | 2 | 12 | 11 (12) | 11 (12) | 40 | 6 | 38 | M5×0.8×8 prof. | 5.5 | 10 |
| 40 | ~300 | 301~800 | 30 | 27 | 22 | 26 | 16 | 25 | 2 | 13 | 12 (13) | 10 (13) | 50 | 8 | 47 | M6×1.0×12 prof. | 6 | 14 |
| 50 | ~300 | 301~1200 | 35 | 32 | 26 | 32 | 20 | 30 | 2 | 14 | 13 (13) | 12 (14) | 58 | 11 | 58 | M8×1.25×16 prof. | 7 | 18 |
| 63 | ~300 | 301~700 | 35 | 32 | 26 | 38 | 20 | 32 | 2 | 14 | 13 (13) | 12 (14) | 58 | 11 | 72 | M10×1.5×16 prof. | 7 | 18 |
| 80 | ~300 | 301~700 | 40 | 37 | 32 | 50 | 25 | 40 | 3 | 20 | 16 (16) | 16 (16) | 71 | 13 | 89 | M10×1.5×22 prof. | 10 | 22 |
| 100 | ~300 | 301~700 | 40 | 37 | 35 | 60 | 30 | 50 | 3 | 20 | 16 (16) | 16 (16) | 71 | 14 | 110 | M12×1.75×22 prof. | 10 | 26 |

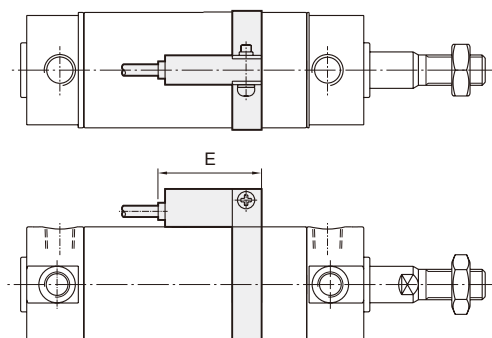
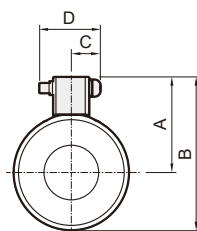
| Código D.I. Tubo | MM | NA | P | S | TA | TB | TC | TDH9 | TE | TF | TG | W | WA | WB | ZZ |
|------------------|----------|-----|-------|----------|----|---------|----------|------------------------------------|------|------|------|-----|----|---------|-----------|
| 20 | M8×1.25 | 24 | Rc1/8 | 69(77) | 11 | 11 (11) | M5×0.8 | 8 ^{+0.036} ₋₀ | 4 | 0.5 | 5.5 | 40° | 14 | 14 (14) | 106 (114) |
| 25 | M10×1.25 | 29 | Rc1/8 | 69(77) | 11 | 11 (11) | M6×0.75 | 10 ^{+0.036} ₋₀ | 5 | 1 | 6.5 | 40° | 14 | 13 (13) | 111 (119) |
| 32 | M10×1.25 | 36 | Rc1/8 | 71(79) | 11 | 10 (11) | M8×1.0 | 12 ^{+0.043} ₋₀ | 5.5 | 1.25 | 7.5 | 30° | 14 | 13 (13) | 113 (121) |
| 40 | M14×1.5 | 44 | Rc1/8 | 78(87) | 12 | 10 (12) | M10×1.25 | 14 ^{+0.043} ₋₀ | 6 | 1.25 | 8 | 20° | 16 | 15 (16) | 130 (139) |
| 50 | M18×1.5 | 55 | Rc1/4 | 90(102) | 13 | 12 (13) | M12×1.25 | 16 ^{+0.043} ₋₀ | 7.5 | 2 | 10 | 20° | 16 | 16 (16) | 150 (162) |
| 63 | M18×1.5 | 69 | Rc1/4 | 90(102) | 13 | 12 (13) | M14×1.5 | 18 ^{+0.043} ₋₀ | 11.5 | 3 | 14.5 | 20° | 18 | 18 (18) | 150 (162) |
| 80 | M22×1.5 | 86 | RC3/8 | 108(122) | - | - | - | - | - | - | - | 25° | 24 | 20 (20) | 182 (196) |
| 100 | M26×1.5 | 106 | RC1/2 | 108(122) | - | - | - | - | - | - | - | 25° | 24 | 20 (20) | 182 (196) |

(): Dimensiones para carrera larga.

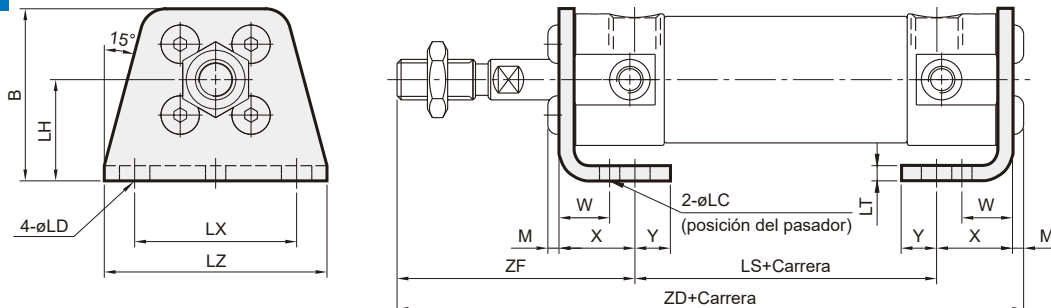
Instalación de un sensor final de carrera

Sensor final de carrera: RCM (Abrazadera: BMG**)

| Código D.I. Tubo | A | B | C | D | E |
|------------------|------|-------|---|----|----|
| 20 | 24 | 37.5 | 7 | 16 | 28 |
| 25 | 26.5 | 42.5 | 7 | 16 | 28 |
| 32 | 30.5 | 50.5 | 7 | 16 | 28 |
| 40 | 35 | 59.5 | 7 | 16 | 28 |
| 50 | 40.5 | 70.5 | 7 | 16 | 28 |
| 63 | 47.5 | 84.5 | 7 | 16 | 28 |
| 80 | 56 | 101.5 | 7 | 16 | 28 |
| 100 | 66.5 | 122.5 | 7 | 16 | 28 |



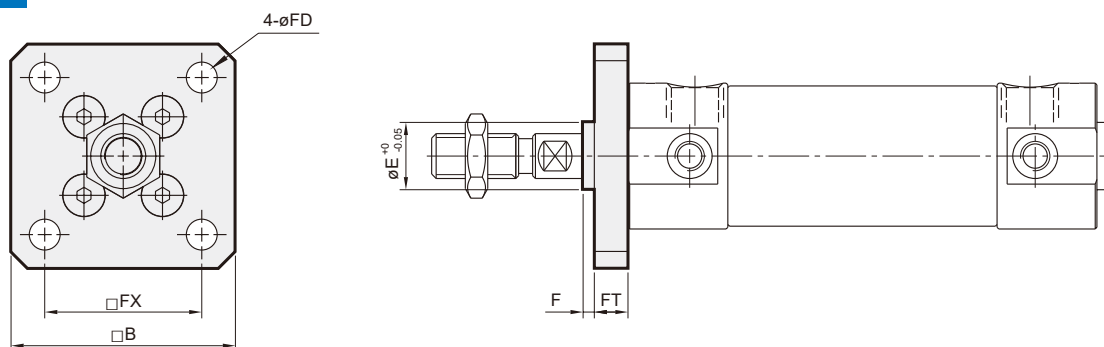
LB



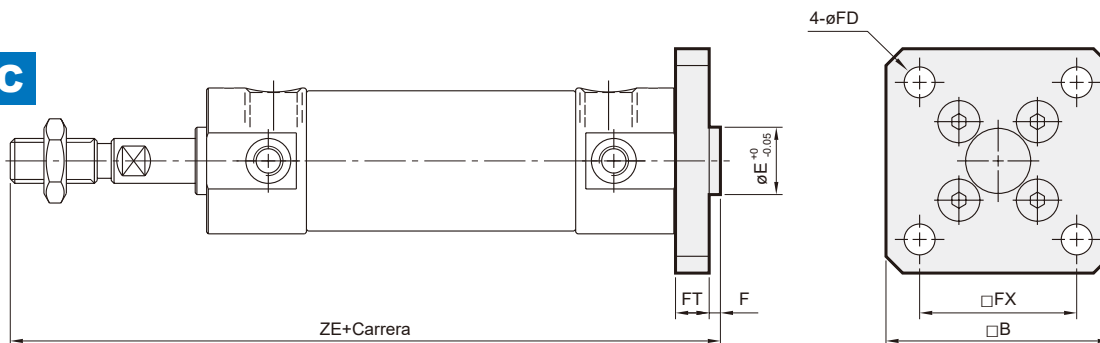
| Código D.I. Tubo | B | LC | LD | LH | LS | LT | LX | LZ | M | W | X | Y | ZD | ZF |
|------------------|------|----|-----|----|---------|-----|-----|-----|-----|------|------|-----|---------------|------|
| 20 | 34 | 4 | 6 | 20 | 45 (53) | 3 | 32 | 44 | 2.2 | 10 | 15 | 7 | 109.2 (117.2) | 47 |
| 25 | 38.5 | 4 | 6 | 22 | 45 (53) | 3 | 36 | 49 | 2.8 | 10 | 15 | 7 | 114.8 (122.8) | 52 |
| 32 | 45 | 4 | 6.6 | 25 | 45 (53) | 3 | 44 | 58 | 2.8 | 10 | 16 | 8 | 116.8 (124.8) | 53 |
| 40 | 54.5 | 4 | 6.6 | 30 | 51 (60) | 3 | 54 | 71 | 3.3 | 10 | 16.5 | 8.5 | 134.3 (143.3) | 63.5 |
| 50 | 70.5 | 5 | 9 | 40 | 55 (67) | 4.5 | 66 | 86 | 4.4 | 17.5 | 22 | 11 | 156.9 (168.9) | 75.5 |
| 63 | 82.5 | 5 | 11 | 45 | 55 (67) | 4.5 | 82 | 106 | 5.5 | 17.5 | 22 | 13 | 158.0 (170.0) | 75.5 |
| 80 | 101 | 6 | 11 | 55 | 60 (74) | 4.5 | 100 | 125 | 5.5 | 20 | 28.5 | 14 | 189.0 (203.0) | 95.0 |
| 100 | 121 | 6 | 14 | 65 | 60 (74) | 6 | 120 | 150 | 6.2 | 20 | 30 | 16 | 192.2 (206.2) | 95.0 |

(): Dimensiones para carrera larga.

FAC



FBC

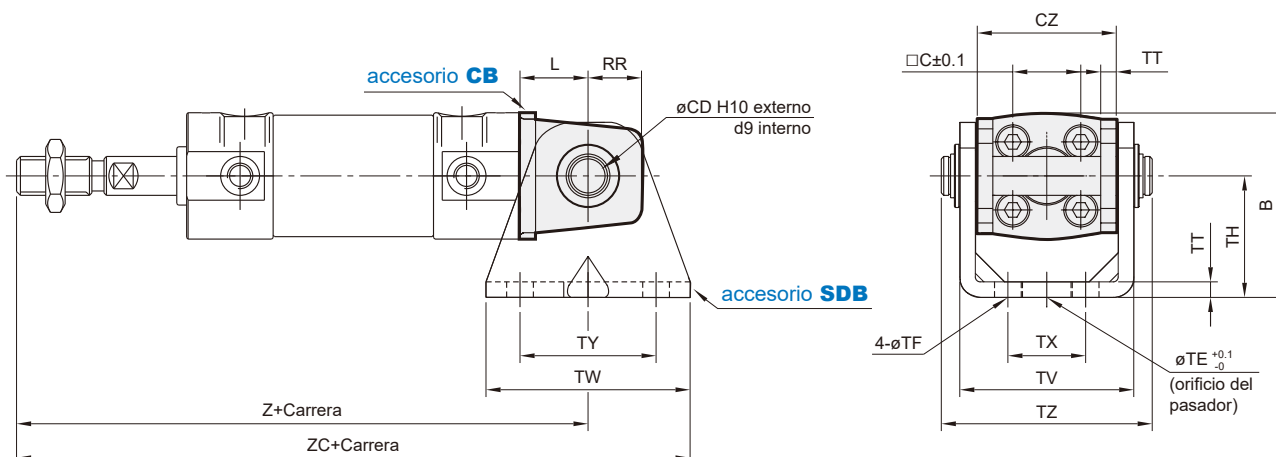


| Código D.I. Tubo | B | E | F | FX | FD | FT | ZE |
|------------------|-----|----|---|-----|-----|----|-----------|
| 20 | 40 | 12 | 2 | 28 | 5.5 | 6 | 112 (120) |
| 25 | 44 | 14 | 2 | 32 | 5.5 | 7 | 118 (126) |
| 32 | 53 | 18 | 2 | 38 | 6.6 | 7 | 120 (128) |
| 40 | 61 | 25 | 2 | 46 | 6.6 | 8 | 138 (147) |
| 50 | 76 | 30 | 2 | 58 | 9 | 9 | 159 (171) |
| 63 | 92 | 32 | 2 | 70 | 11 | 9 | 159 (171) |
| 80 | 104 | 40 | 3 | 82 | 11 | 11 | 193 (207) |
| 100 | 128 | 50 | 3 | 100 | 14 | 14 | 196 (210) |

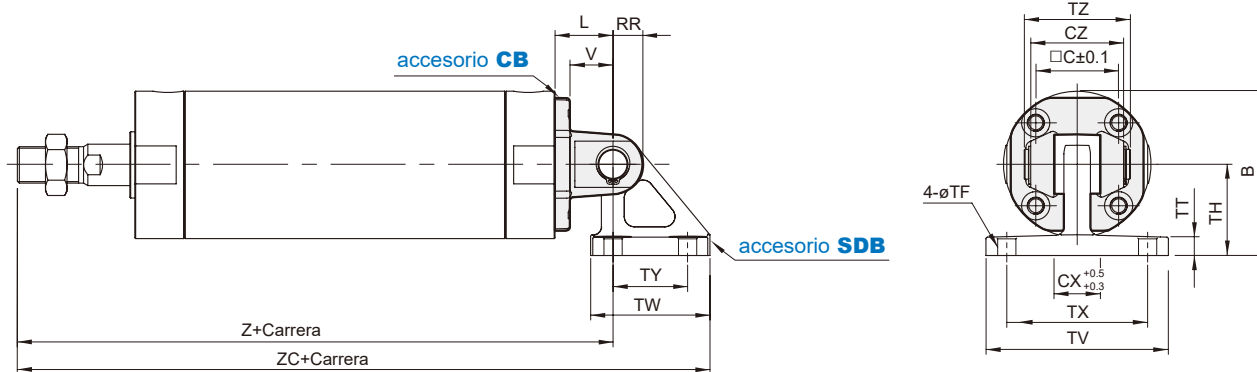
(): Dimensiones para carrera larga.

CB SDB+PIN (compra adicional)

ø20~63



ø80, 100



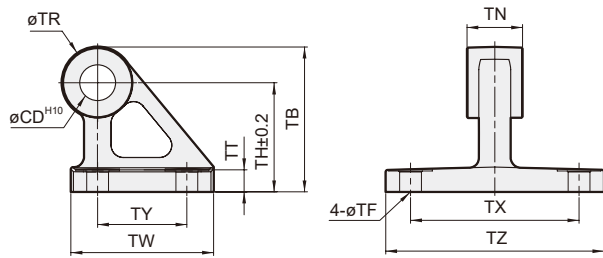
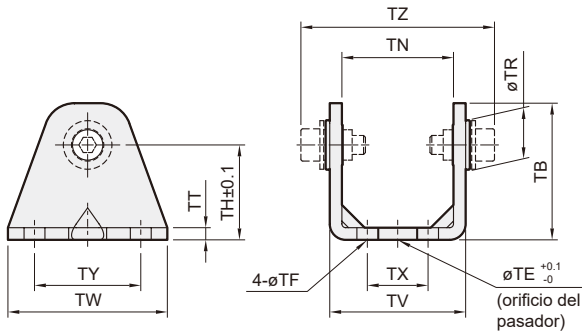
| Código D.I. Tubo | B | C | CD | CX | CZ | L | RR | V | TE | TF | TH | TT | TV | TW | TX | TY | TZ | Z | ZC |
|---------------------|------|------|----|----|----|----|----|----|----|------|----|-----|------|----|-----|----|-------|-----------|---------------|
| 20 | 38 | 14 | 8 | - | 29 | 14 | 11 | - | 10 | 5.5 | 25 | 3.2 | 35.8 | 42 | 16 | 28 | 43.4 | 118 (126) | 139 (147) |
| 25 | 45.5 | 16.5 | 10 | - | 33 | 16 | 13 | - | 10 | 5.5 | 30 | 3.2 | 39.8 | 42 | 20 | 28 | 48 | 125 (133) | 146 (154) |
| 32 | 54 | 20 | 12 | - | 40 | 20 | 15 | - | 10 | 6.6 | 35 | 4.5 | 49.4 | 48 | 22 | 28 | 59.4 | 131 (139) | 155 (163) |
| 40 | 63.5 | 26 | 14 | - | 49 | 22 | 18 | - | 10 | 6.6 | 40 | 4.5 | 58.4 | 56 | 30 | 30 | 71.4 | 150 (159) | 178 (187) |
| 50 | 79 | 32 | 16 | - | 60 | 25 | 20 | - | 20 | 9 | 50 | 6 | 72.4 | 64 | 36 | 36 | 86 | 173 (185) | 205 (217) |
| 63 | 96 | 38 | 18 | - | 74 | 30 | 22 | - | 20 | 11 | 60 | 8 | 90.4 | 74 | 46 | 46 | 105.4 | 178 (190) | 215 (227) |
| 80 | 99.5 | 50 | 18 | 28 | 56 | 35 | 18 | 26 | - | 11 | 55 | 11 | 110 | 72 | 85 | 45 | 64 | 214 (228) | 272.5 (286.5) |
| 100 | 120 | 60 | 22 | 32 | 64 | 43 | 22 | 32 | - | 13.5 | 65 | 12 | 130 | 93 | 100 | 60 | 72 | 222 (236) | 298.5 (312.5) |

(): Dimensiones para carrera larga.

SDB

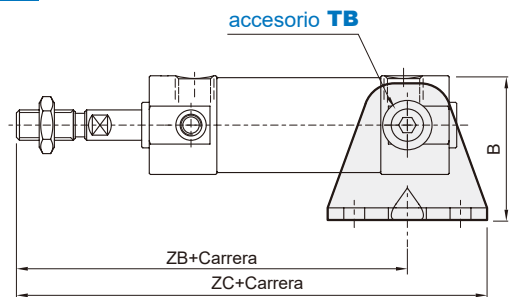
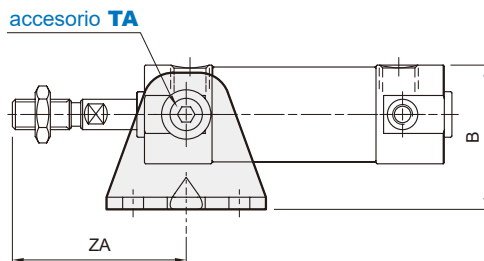
$\varnothing 20 \sim 63$ TA / TB (compra adicional)

$\varnothing 80, 100$



SDB-R $\varnothing 20 \sim 63$

SDB-H $\varnothing 20 \sim 63$

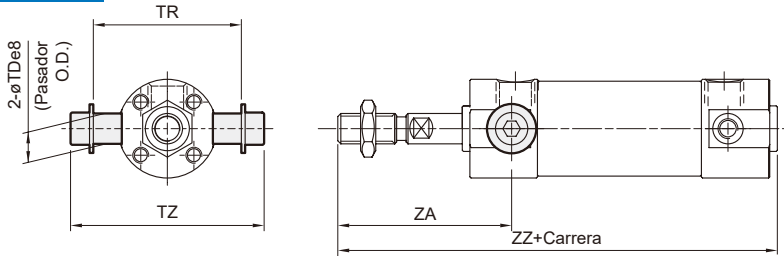


| Código D.I. Tubo | B | CD | TB | TE | TF | TH | TN | TR | TT | TV | TW | TX | TY | TZ | ZA | ZB | ZC | Modelo (Pasador O.D.) |
|------------------|------|----|----|----|------|----|------|----|-----|------|----|-----|----|------|----|----------|----------|-----------------------|
| 20 | 38 | - | 36 | 10 | 5.5 | 25 | 29.3 | 14 | 3.2 | 35.8 | 42 | 16 | 28 | 51 | 46 | 93(101) | 114(122) | 8d9 -0.040 -0.076 |
| 25 | 45.5 | - | 43 | 10 | 5.5 | 30 | 33.1 | 16 | 3.2 | 39.8 | 42 | 20 | 28 | 58.2 | 51 | 98(106) | 119(127) | 10d9 -0.040 -0.076 |
| 32 | 54 | - | 50 | 10 | 6.6 | 35 | 40.4 | 18 | 4.5 | 49.4 | 48 | 22 | 28 | 71.5 | 51 | 101(108) | 125(132) | 12d9 -0.050 -0.093 |
| 40 | 63.5 | - | 58 | 10 | 6.6 | 40 | 49.2 | 22 | 4.5 | 58.4 | 56 | 30 | 30 | 88.5 | 62 | 118(125) | 146(153) | 14d9 -0.050 -0.093 |
| 50 | 79 | - | 70 | 20 | 9 | 50 | 60.4 | 25 | 6 | 72.4 | 64 | 36 | 36 | 109 | 71 | 136(147) | 168(179) | 16d9 -0.050 -0.093 |
| 63 | 96 | - | 82 | 20 | 11 | 60 | 74.6 | 27 | 8 | 90.4 | 74 | 46 | 46 | 131 | 71 | 136(147) | 173(184) | 18d9 -0.050 -0.093 |
| 80 | - | 18 | 73 | - | 11 | 55 | 28 | 36 | 11 | - | 72 | 85 | 45 | 110 | - | - | - | 18d9 -0.050 -0.093 |
| 100 | - | 22 | 90 | - | 13.5 | 65 | 32 | 50 | 12 | - | 93 | 100 | 60 | 130 | - | - | - | 22d9 -0.065 -0.117 |

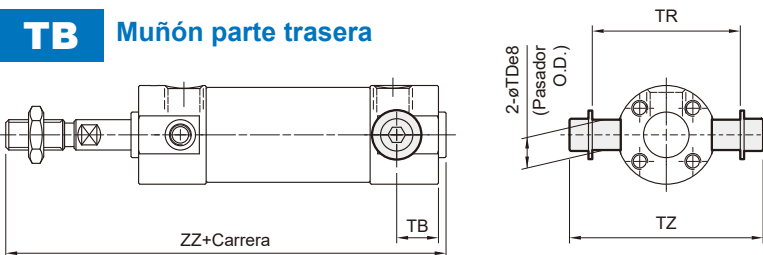
(): Dimensiones para carrera larga..

CILINDRO REDONDO

TA Muñón parte delantera



TB Muñón parte trasera

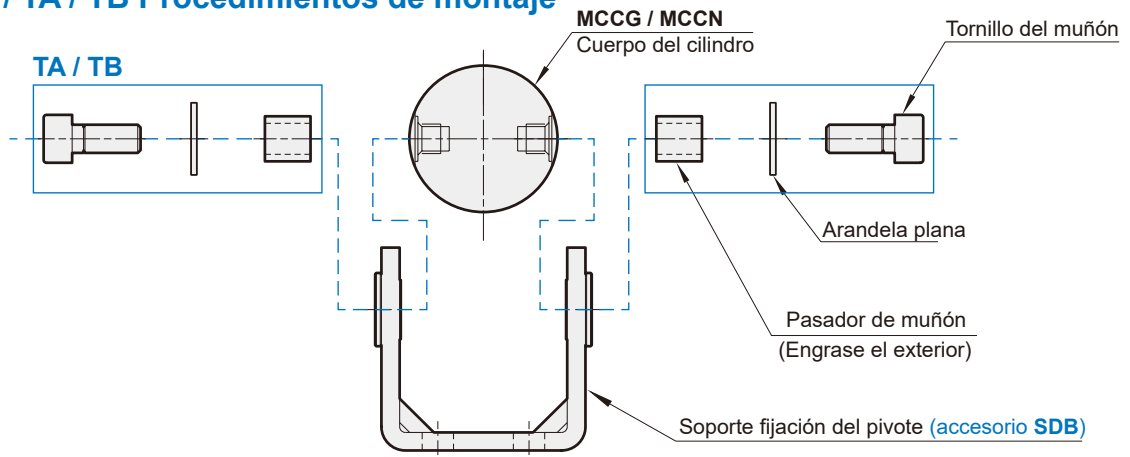


| Código D.I. Tubo | TB | TDe8 | TR | TZ | ZA | ZZ |
|------------------|--------|--|------|------|----|-----------|
| 20 | 11(11) | 8 ^{-0.025} _{-0.047} | 39 | 51 | 46 | 106 (114) |
| 25 | 11(11) | 10 ^{-0.025} _{-0.047} | 43 | 58.2 | 51 | 111 (119) |
| 32 | 10(11) | 12 ^{-0.032} _{-0.059} | 53.5 | 71.5 | 51 | 113 (121) |
| 40 | 10(12) | 14 ^{-0.032} _{-0.059} | 64.5 | 88.5 | 62 | 130 (139) |
| 50 | 12(13) | 16 ^{-0.032} _{-0.059} | 80 | 109 | 71 | 150 (162) |
| 63 | 12(13) | 18 ^{-0.032} _{-0.059} | 98 | 131 | 71 | 150 (162) |

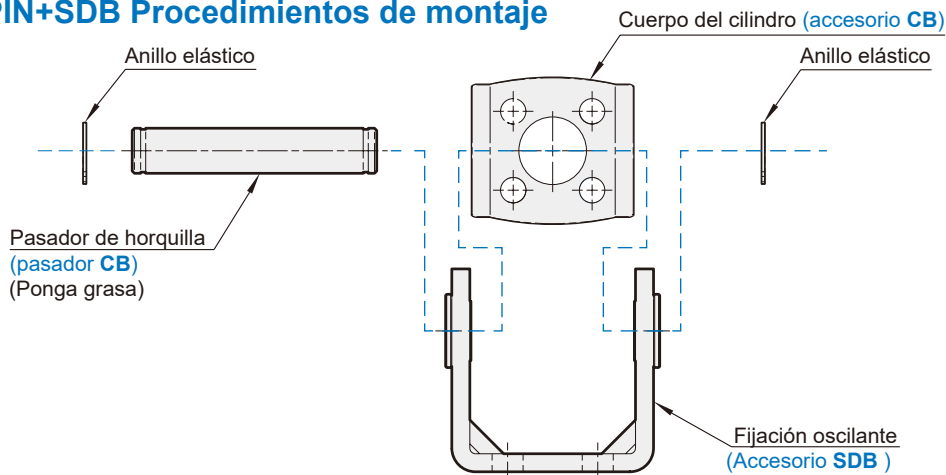
(): Dimensiones para carrera larga.

MCCG / MCCN

SDB-R(H) / TA / TB Procedimientos de montaje

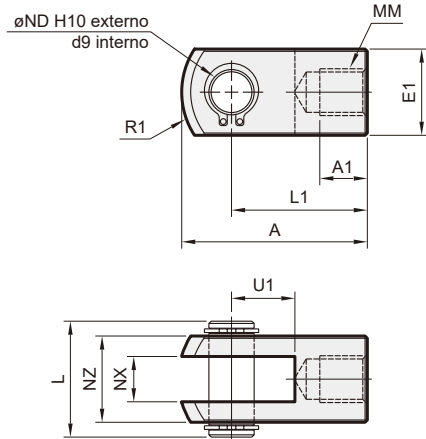


CB+PIN+SDB Procedimientos de montaje

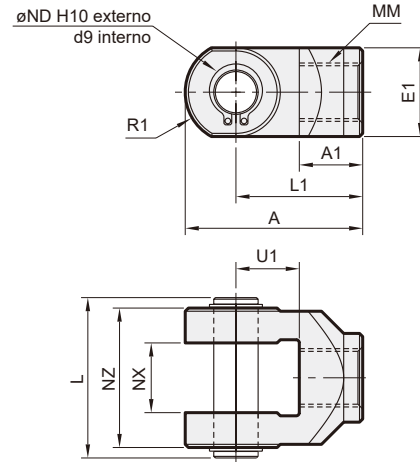


Conector Y

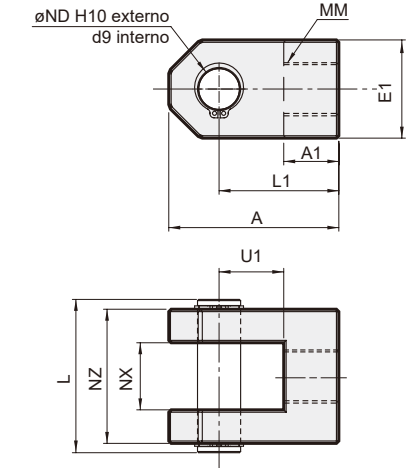
$\phi 20\sim\phi 32$



$\phi 40\sim\phi 63$



$\phi 80, \phi 100$

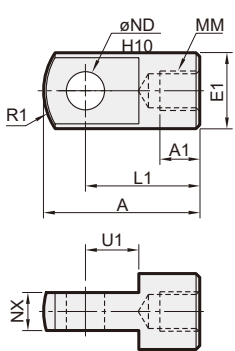


| Código D.I. Tubo | A | A1 | E1 | L | L1 | MM | R1 | U1 | ND | NX | NZ |
|------------------|----|------|----|------|----|----------|----|------|----|------------------------------------|-------|
| 20 | 34 | 8.5 | 16 | 21 | 25 | M8×1.25 | 14 | 11.5 | 8 | 8 ^{+0.4} _{+0.2} | 15.88 |
| 25,32 | 41 | 10.5 | 20 | 25.6 | 30 | M10×1.25 | 18 | 14 | 10 | 10 ^{+0.4} _{+0.2} | 19.05 |
| 40 | 42 | 16 | 20 | 41.6 | 30 | M14×1.5 | 12 | 14 | 10 | 18 ^{+0.5} _{+0.3} | 36 |
| 50,63 | 56 | 20 | 25 | 50.6 | 40 | M18×1.5 | 16 | 20 | 14 | 22 ^{+0.5} _{+0.3} | 44 |
| 80 | 71 | 23 | 41 | 64 | 50 | M22×1.5 | - | 26 | 18 | 28 ^{+0.5} _{+0.3} | 56 |
| 100 | 79 | 24 | 47 | 72 | 55 | M26×1.5 | - | 30 | 22 | 32 ^{+0.5} _{+0.3} | 64 |

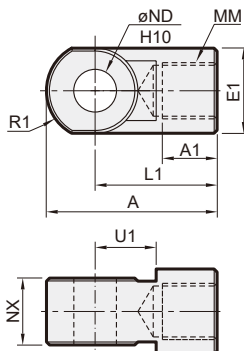
PASADOR

Conector I

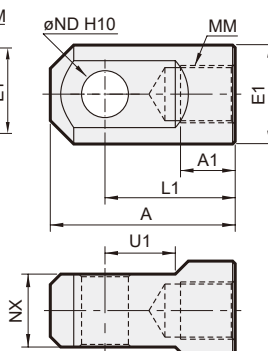
$\phi 20\sim\phi 32$



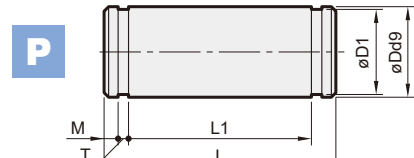
$\phi 40\sim\phi 63$



$\phi 80, \phi 100$



| Código D.I. Tubo | A | A1 | E1 | L1 | MM | R1 | U1 | NDH10 | NX |
|------------------|----|------|----|----|----------|----|------|-------------------------------------|------------------------------------|
| 20 | 34 | 8.5 | 16 | 25 | M8×1.25 | 14 | 11.5 | 8 ^{+0.058} ₀ | 8 ^{-0.2} _{-0.4} |
| 25,32 | 41 | 10.5 | 20 | 30 | M10×1.25 | 18 | 14 | 10 ^{+0.058} ₀ | 10 ^{-0.2} _{-0.4} |
| 40 | 42 | 14 | 22 | 30 | M14×1.5 | 12 | 14 | 10 ^{+0.058} ₀ | 18 ^{-0.3} _{-0.5} |
| 50,63 | 56 | 18 | 28 | 40 | M18×1.5 | 16 | 20 | 14 ^{+0.070} ₀ | 22 ^{-0.3} _{-0.5} |
| 80 | 71 | 21 | 38 | 50 | M22×1.5 | - | 27 | 18 ^{-0.070} ₍₀₎ | 28 ^{-0.3} _{-0.5} |
| 100 | 79 | 21 | 45 | 55 | M26×1.5 | - | 31 | 22 ^{-0.084} ₀ | 32 ^{-0.3} _{-0.5} |



para CB

| Código D.I. Tubo | Dd9 | D1 | L | L1 | M | T | Anillo elástico |
|------------------|--------------------------------------|------|-------|------|------|------|-----------------|
| 20 | 8 ^{-0.04} _{-0.08} | 7.6 | 43.4 | 38.6 | 1.5 | 0.9 | STW-8 |
| 25 | 10 ^{-0.04} _{-0.08} | 9.6 | 48 | 42.6 | 1.55 | 1.15 | STW-10 |
| 32 | 12 ^{-0.05} _{-0.09} | 11.5 | 59.4 | 54 | 1.55 | 1.15 | STW-12 |
| 40 | 14 ^{-0.05} _{-0.09} | 13.4 | 71.4 | 65 | 2.05 | 1.15 | STW-14 |
| 50 | 16 ^{-0.05} _{-0.09} | 15.2 | 86 | 79.6 | 2.05 | 1.15 | STW-16 |
| 63 | 18 ^{-0.05} _{-0.09} | 17.0 | 105.4 | 97.8 | 2.45 | 1.35 | STW-18 |
| 80 | 18 ^{-0.05} _{-0.09} | 17 | 64 | 56.2 | 2.55 | 1.35 | STW-18 |
| 100 | 22 ^{-0.06} _{-0.11} | 21 | 72 | 64.2 | 2.55 | 1.35 | STW-22 |





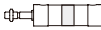
para conectores Y y I

| Código D.I. Tubo | Dd9 | D1 | L | L1 | M | T | Anillo elástico |
|------------------|--------------------------------------|------|------|------|------|------|-----------------|
| 20 | 8 ^{-0.04} _{-0.08} | 7.6 | 21 | 16.2 | 1.5 | 0.9 | STW-8 |
| 25,32 | 10 ^{-0.04} _{-0.08} | 9.6 | 25.6 | 20.2 | 1.55 | 1.15 | STW-10 |
| 40 | 10 ^{-0.04} _{-0.08} | 9.6 | 41.6 | 36.2 | 1.55 | 1.15 | STW-10 |
| 50,63 | 14 ^{-0.05} _{-0.09} | 13.4 | 50.6 | 44.2 | 2.05 | 1.15 | STW-14 |
| 80 | 18 ^{-0.05} _{-0.09} | 17 | 64 | 56.2 | 2.55 | 1.35 | STW-18 |
| 100 | 22 ^{-0.06} _{-0.11} | 21 | 72 | 64.2 | 2.55 | 1.35 | STW-22 |











CILINDRO REDONDO

Peso del cilindro

Unidad: kg

| Modelo | Carrera | Peso básico | | Peso básico (magnético) | | Carrera 25 mm |
|-----------|----------|---|---|---|---|---|
| | | MCCG-11 | MCCG-11-A | MCCG-11-M | MCCG-11-M-A | |
| D.I. Tubo | |  |  |  |  |  |
| 20 | ~200 | 0.107 | 0.112 | 0.108 | 0.113 | 0.022 |
| | 201~350 | 0.117 | 0.122 | 0.118 | 0.123 | |
| 25 | ~300 | 0.165 | 0.165 | 0.166 | 0.166 | 0.03 |
| | 301~400 | 0.178 | 0.178 | 0.179 | 0.179 | |
| 32 | ~300 | 0.233 | 0.237 | 0.234 | 0.238 | 0.043 |
| | 301~450 | 0.261 | 0.265 | 0.262 | 0.266 | |
| 40 | ~300 | 0.402 | 0.413 | 0.414 | 0.425 | 0.067 |
| | 301~800 | 0.44 | 0.451 | 0.452 | 0.463 | |
| 50 | ~300 | 0.753 | 0.782 | 0.77 | 0.799 | 0.1 |
| | 301~1200 | 0.838 | 0.867 | 0.855 | 0.884 | |
| 63 | ~300 | 1.058 | 1.076 | 1.078 | 1.096 | 0.119 |
| | 301~700 | 1.192 | 1.21 | 1.212 | 1.23 | |
| 80 | ~300 | 2.007 | 2.054 | 2.034 | 2.081 | 0.166 |
| | 301~700 | 2.227 | 2.274 | 2.254 | 2.301 | |
| 100 | ~300 | 3.015 | 3.094 | 3.05 | 3.129 | 0.234 |
| | 301~700 | 3.348 | 3.427 | 3.383 | 3.462 | |

Peso de los accesorios

| Modelo | LB | CB | FAC / FBC | SDB | TA / TB | Y | I | PIN-Y-P (con anillo elástico) | PIN-CB-P (con anillo elástico) | Tuerca vástago |
|-----------|---|---|---|---|---|---|--|---|---|---|
| D.I. Tubo |  |  |  |  |  |  |  |  |  |  |
| 20 | 0.0434 | 0.037 | 0.066 | 0.089 | 0.012 | 0.0352 | 0.0318 | 0.0088 | 0.0174 | 0.004 |
| 25 | 0.0543 | 0.051 | 0.092 | 0.111 | 0.018 | 0.0622 | 0.0598 | 0.0164 | 0.03 | 0.008 |
| 32 | 0.072 | 0.096 | 0.136 | 0.202 | 0.038 | | | | 0.053 | |
| 40 | 0.089 | 0.147 | 0.208 | 0.311 | 0.068 | 0.093 | 0.07 | 0.0262 | 0.086 | 0.016 |
| 50 | 0.24 | 0.272 | 0.364 | 0.545 | 0.114 | 0.182 | 0.151 | 0.0618 | 0.135 | 0.032 |
| 63 | 0.352 | 0.488 | 0.521 | 0.725 | 0.176 | | | | 0.2116 | |
| 80 | 0.45 | 0.57 | 0.786 | 0.933 | - | 0.68 | 0.4 | 0.125 | | 0.049 |
| 100 | 0.814 | 1.075 | 1.542 | 1.719 | - | 0.976 | 0.614 | 0.19 | | 0.056 |