



**Minicilindri ISO6432 ø8-25 con boccola
ISO6432 mini-cylinders ø8-25 with bush**

Minicilindri ISO6432 ø8-25 con boccola
ISO6432 mini-cylinders ø8-25 with bush



Materiali - Materials

| | |
|--------------------------|-----------------------|
| Testate..... | Alluminio anodizzato |
| Covers..... | Anodized aluminium |
| Tubo..... | Acciaio inox AISI 304 |
| Tube..... | Stainless steel 304 |
| Pistone..... | Ottone |
| Piston..... | Brass |
| Guarnizioni..... | PU / NBR |
| Seals..... | |
| Stelo..... | Acciaio inox AISI303 |
| Piston rod..... | Stainless steel 303 |
| Boccola guida..... | Bronzo sinterizzato |
| Guiding bush..... | Sintered bronze |
| Boccola posteriore | Polimero |
| Rear bush..... | Polymeric |

Caratteristiche tecniche - Technical features

| | | |
|----------------------------|---|----------------------------|
| Fluido..... | Aria compressa filtrata lubrificata e non | |
| Fluid..... | Filtered and lubricated or not compressed air | |
| Temperatura di impiego | ø8-10-12 | -20°C +80°C con aria secca |
| | ø16-20-25 | -35°C +80°C con aria secca |
| Working temperature | ø8-10-12 | -20°C +80°C with dry air |
| | ø16-20-25 | -35°C +80°C with dry air |
| Pressione di utilizzo..... | max 10 bar | |
| Pressure range..... | max 10 bar | |

Chiavi di codifica
Cylinders key code

C D E 2 0 / 1 0 0 R B

| Versione Version | Diametro Bore | Corsa Stroke | Tipo costruttivo Design type | Guarnizioni Seals |
|---|------------------|-----------------|---|---|
| CSE Semplice effetto molla anteriore non magnetico Single acting front spring non magnetic | 8 | 5 | RB versione standard standard version | Standard - |
| CSEM Semplice effetto molla anteriore magnetico Single acting front spring magnetic | 10 | 1000 | RBES versione anti-rotazione, stelo esagonale non-rotating version, exagonal piston rod | VG Guarnizione stelo FKM FKM rod seal |
| CDE Doppio effetto non magnetico Double acting non magnetic | 12 | | | |
| | 16 | | | |
| CDEM Doppio effetto magnetico Double acting magnetic | 20 | | | |
| | 25 | | | |
| CDEA Doppio effetto con ammortizzo regolabile non magnetico Double acting with adjustable cushioning non magnetic | | | | |
| CDEMA Doppio effetto con ammortizzo regolabile magnetico Double acting with adjustable cushioning magnetic | | | | |
| CSET Semplice effetto molla posteriore non magnetico Single acting rear spring non magnetic | | | | |
| CSEMT Semplice effetto molla posteriore magnetico Single acting rear spring magnetic | | | | |

Corse standard
Standard strokes

| ø | 10 | 25 | 40 | 50 | 80 | 100 | 125 | 160 | 200 | 250 | 300 | 320 | 350 | 400 | 450 | 500 |
|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 8 | ■● | ■● | ● | ■● | ● | ● | | | | | | | | | | |
| 10 | ■● | ■● | ● | ■● | ● | ● | | | | | | | | | | |
| 12 | ■● | ■● | ● | ■● | ● | ● | ● | ● | ● | | | | | | | |
| 16 | ■● | ■● | ● | ■● | ● | ● | ● | ● | ● | ● | | | | | | |
| 20 | ■● | ■● | ● | ■● | ● | ● | ● | ● | ● | ● | ● | ● | | | | |
| 25 | ■● | ■● | ● | ■● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

- = Cilindri semplice effetto
Single acting cylinders
- = Cilindri doppio effetto
Double acting cylinders

Forze teoriche a 6 bar Theretical forces at 6 bar

| ∅ | Forza di spinta (N) Thrust force (N) | Forza di trazione (N) Traction force (N) |
|----|---|---|
| 8 | 30 | 23 |
| 10 | 47 | 40 |
| 12 | 68 | 51 |
| 16 | 121 | 104 |
| 20 | 189 | 158 |
| 25 | 295 | 247 |

Forze teoriche delle molle Theretical spring forces

| ∅ | Molla anteriore / Front spring | | | | | | Molla posteriore / Rear spring | | | | | |
|----|--------------------------------|--------|--------------------|--------|--------------------|--------|--------------------------------|--------|--------------------|--------|--------------------|--------|
| | Corsa/Stroke 10 | | Corsa/Stroke 25 | | Corsa/Stroke 50 | | Corsa/Stroke 10 | | Corsa/Stroke 25 | | Corsa/Stroke 50 | |
| | F1 (N) | F2 (N) | F1 (N) | F2 (N) | F1 (N) | F2 (N) | F1 (N) | F2 (N) | F1 (N) | F2 (N) | F1 (N) | F2 (N) |
| 8 | 4.1 | 4.6 | 3.4 | 4.6 | 2.2 | 4.6 | 5.5 | 6 | 4.8 | 6 | 3.6 | 6 |
| 10 | 4.1 | 4.6 | 3.4 | 4.6 | 2.2 | 4.6 | 5 | 6.2 | 3.3 | 6.2 | - | - |
| 12 | 5.6 | 6 | 5.5 | 6 | 4.1 | 6 | 13 | 14.2 | 11.3 | 14.2 | 8.5 | 14.2 |
| 16 | 19.2 | 21.5 | 15.7 | 21.5 | 9.8 | 21.5 | 19 | 20.7 | 16.3 | 20.7 | 12 | 20.7 |
| 20 | 20.4 | 22.5 | 17.3 | 22.5 | 11.7 | 22.5 | 57.2 | 61.5 | 50.7 | 61.5 | 39.8 | 61.5 |
| 25 | 17.5 | 18.8 | 15.6 | 18.8 | 12.4 | 18.8 | 28.5 | 30.6 | 25.3 | 30.6 | 19.8 | 30.6 |

Esecuzione a richiesta On request

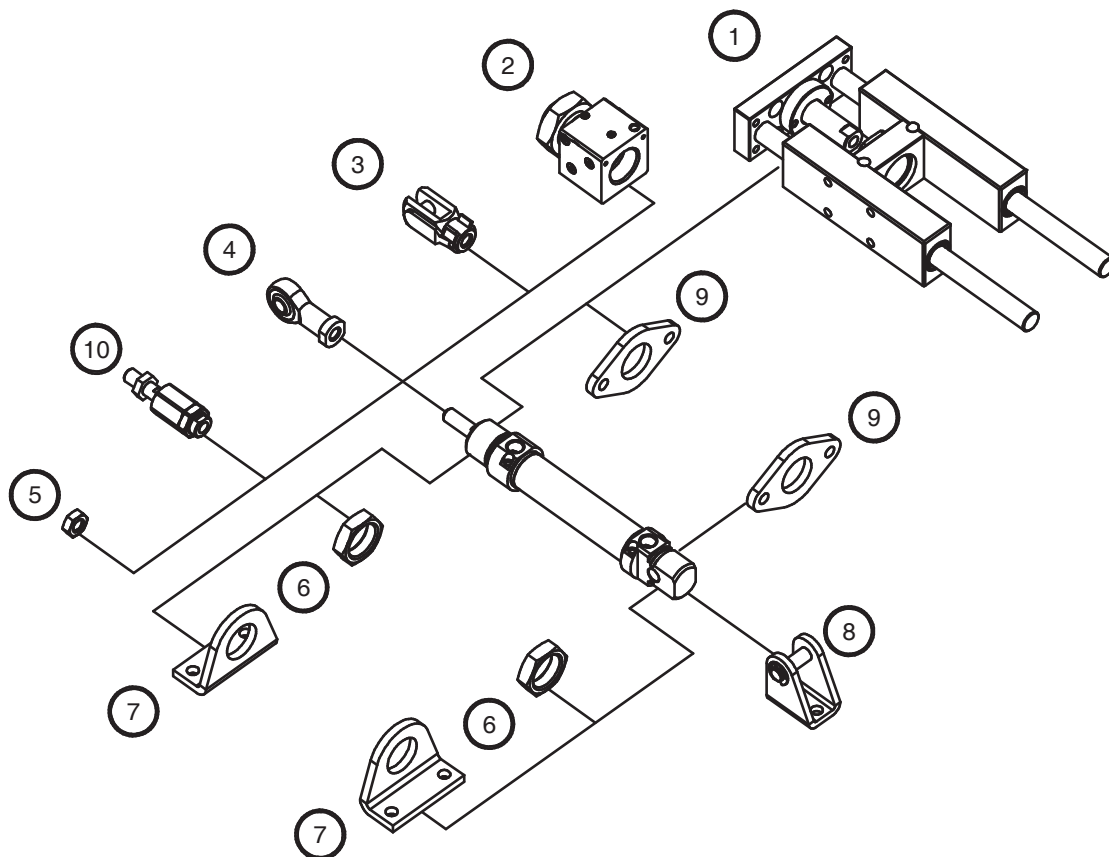
Caratteristiche - Features

- Stelo prolungato - Piston rod extension
- Basso attrito - Low friction
- Stelo in acciaio inox (AISI316) - Stainless steel piston rod (SS316)
- Lubrificazione FDA - FDA lubrication
- Filettature e steli su richiesta - Custom made thread or piston rod
- Guarnizione stelo ad elevata resistenza chimica - Rod seal with increased chemical resistance
- Certificazione ATEX - ATEX certification

Accessori di fissaggio Mounting accessories

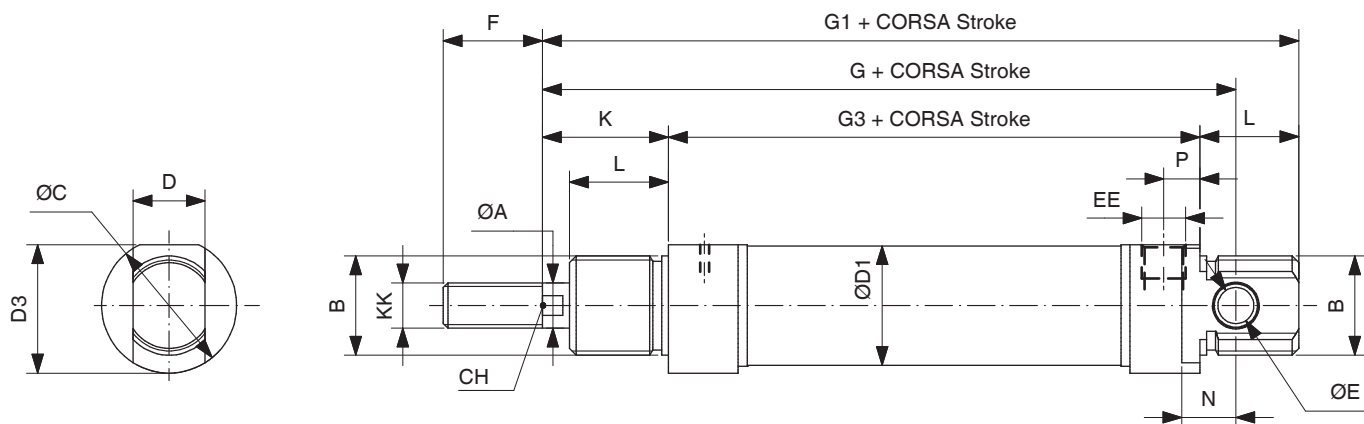
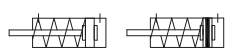
| ∅ | ① Unità di guida Guide unit | ② Bloccastelo Rod lock | ③ Forcella* Clevis* | ④ Testa a snodo* Rod end* | ⑤ Dado stelo* Pisto rod nut* | ⑥ Dado testata* Cover nut* | ⑦ Piedino* Foot* MS3 | ⑧ Cerniera* Hinge* MP3 | ⑨ Flangia* Flange* MF8 | ⑩ Giunto autoallineante Self-aligning joint |
|----|-----------------------------------|------------------------------|---------------------------|---------------------------------|------------------------------------|----------------------------------|-------------------------------|---------------------------------|---------------------------------|---|
| 8 | // | // | FORM4ISO | TSNDM4X0.7 | ANA0810 | ANA40B | APM0810S | COM0810S | AFM0810S | // |
| 10 | // | // | FORM4ISO | TSNDM4X0.7 | ANA0810 | ANA40B | APM0810S | COM0810S | AFM0810S | // |
| 12 | NRB/NRS/NRU | // | FORM6ISO | TSNDM6X1 | ANA1216 | ANT1216 | APM1216S | COM1216S | AFM1216S | GASM6X1 |
| 16 | NRB/NRS/NRU | // | FORM6ISO | TSNDM6X1 | ANA1216 | ANT1216 | APM1216S | COM1216S | AFM1216S | GASM6X1 |
| 20 | NRB/NRS/NRU | BLS20 | FORM8ISO | TSNDM8X1.25 | ANA20 | ANT2025 | APM2025S | COM2025S | AFM2025S | GASM8X1.25 |
| 25 | NRB/NRS/NRU | BLS25 | FORM10ISO | TSNDM10X1.25 | ANA25 | ANT2025 | APM2025S | COM2025S | AFM2025S | GASM8X1.25 |

* Disponibile anche in acciaio inox AISI304 - per ordinare aggiungere il suffisso "I" al codice



Semplice effetto
Single acting

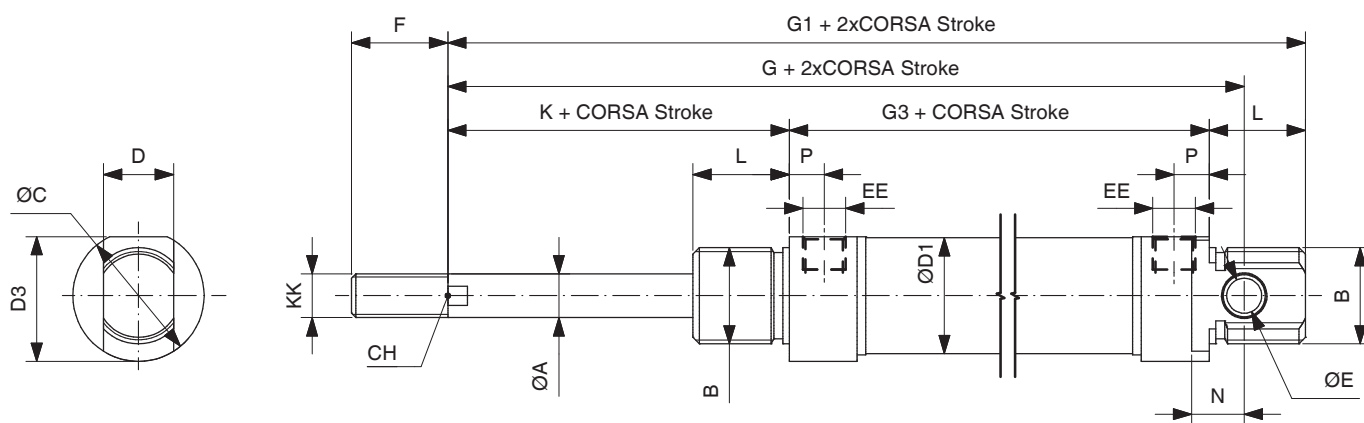
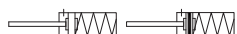
CSE \emptyset /...RB - CSEM \emptyset /...RB



| Ø | ØA | B | ØC | CH | D | ØD1 | D3 | ØE | EE | F | G | G1 | G3 | K | KK | L | N | P |
|----|----|----------|----|----|----|-------|------|----|-------|----|-----|-----|----|----|----------|----|----|-----|
| 8 | 4 | M12x1.25 | 16 | / | 8 | 9.27 | 15 | 4 | M5 | 12 | 64 | 74 | 46 | 16 | M4x0.7 | 12 | 6 | 5 |
| 10 | 4 | M12x1.25 | 16 | / | 8 | 11.27 | 15 | 4 | M5 | 12 | 64 | 74 | 46 | 16 | M4x0.7 | 12 | 6 | 5 |
| 12 | 6 | M16x1.5 | 19 | 5 | 12 | 13.27 | 18 | 6 | M5 | 16 | 75 | 88 | 48 | 22 | M6x1 | 18 | 9 | 5 |
| 16 | 6 | M16x1.5 | 19 | 5 | 12 | 17.27 | 18 | 6 | M5 | 16 | 82 | 93 | 53 | 22 | M6x1 | 18 | 9 | 4.5 |
| 20 | 8 | M22x1.5 | 27 | 7 | 16 | 21.27 | 25.5 | 8 | 1/8"G | 20 | 95 | 111 | 67 | 24 | M8x1.25 | 20 | 12 | 8 |
| 25 | 10 | M22x1.5 | 30 | 9 | 16 | 26.5 | 28.5 | 8 | 1/8"G | 22 | 104 | 118 | 68 | 28 | M10x1.25 | 22 | 12 | 8 |

Semplice effetto molla posteriore
Single acting rear spring

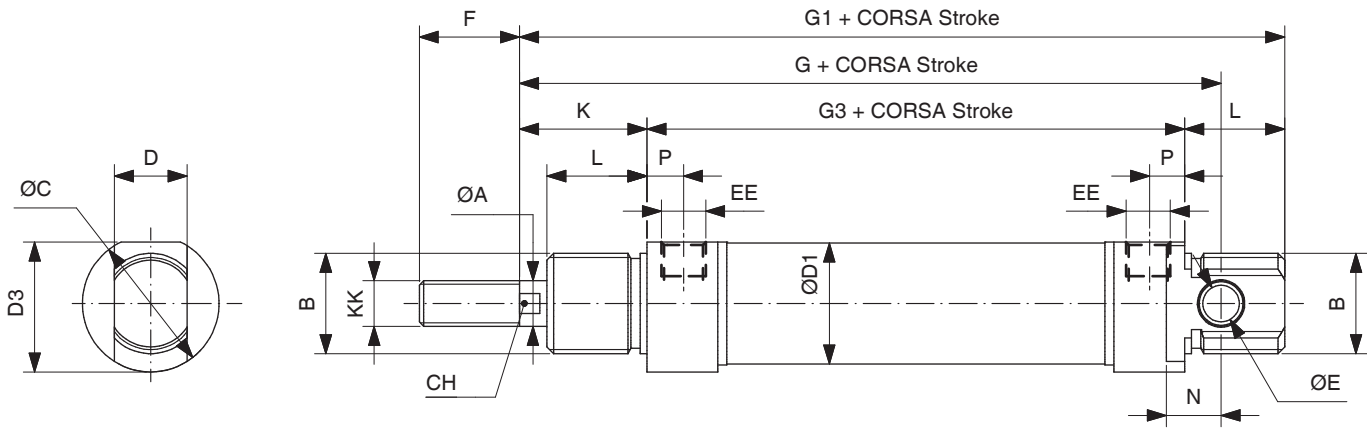
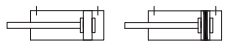
CSET \emptyset /...RB - CSEMT \emptyset /...RB



| Ø | ØA | B | ØC | CH | D | ØD1 | D3 | ØE | EE | F | G | G1 | G3 | K | KK | L | N | P |
|----|----|----------|----|----|----|-------|------|----|-------|----|-------|-------|------|----|----------|----|----|-----|
| 8 | 4 | M12x1.25 | 16 | / | 8 | 9.27 | 15 | 4 | M5 | 12 | 82 | 92 | 64 | 16 | M4x0.7 | 12 | 6 | 5 |
| 10 | 4 | M12x1.25 | 16 | / | 8 | 11.27 | 15 | 4 | M5 | 12 | 89.5 | 99.5 | 71.5 | 16 | M4x0.7 | 12 | 6 | 5 |
| 12 | 6 | M16x1.5 | 19 | 5 | 12 | 13.27 | 18 | 6 | M5 | 16 | 97.5 | 110.5 | 70.5 | 22 | M6x1 | 18 | 9 | 5 |
| 16 | 6 | M16x1.5 | 19 | 5 | 12 | 17.27 | 18 | 6 | M5 | 16 | 111 | 122 | 82 | 22 | M6x1 | 18 | 9 | 4.5 |
| 20 | 8 | M22x1.5 | 27 | 7 | 16 | 21.27 | 25.5 | 8 | 1/8"G | 20 | 126.5 | 142.5 | 98.5 | 24 | M8x1.25 | 20 | 12 | 8 |
| 25 | 10 | M22x1.5 | 30 | 9 | 16 | 26.5 | 28.5 | 8 | 1/8"G | 22 | 135.5 | 149.5 | 99.5 | 28 | M10x1.25 | 22 | 12 | 8 |

Doppio effetto
Double acting

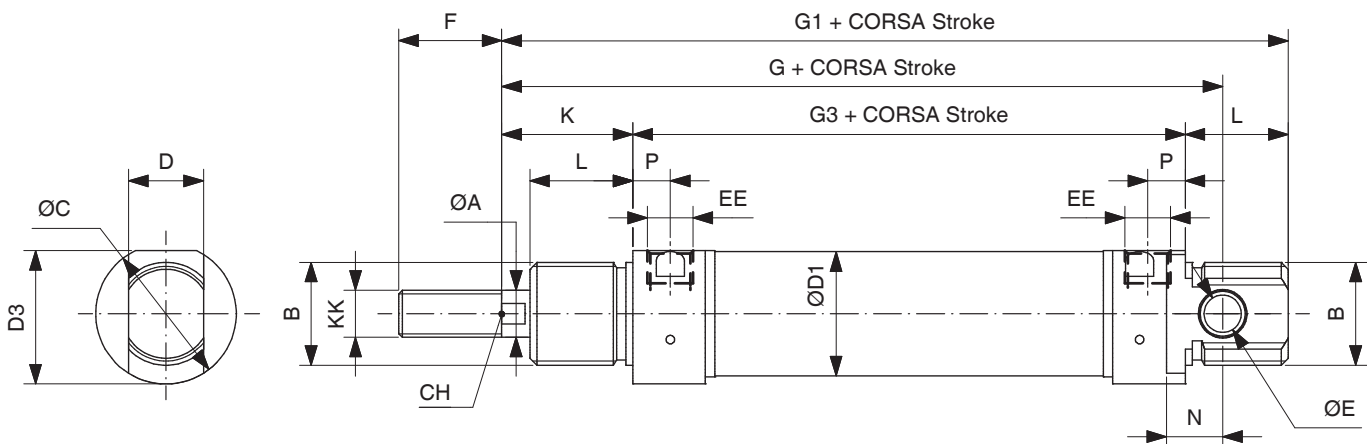
CDE \emptyset /...RB - CDEM \emptyset /...RB



| Ø | ØA | B | ØC | CH | D | ØD1 | D3 | ØE | EE | F | G | G1 | G3 | K | KK | L | N | P |
|----|----|----------|----|----|----|-------|------|----|-------|----|-----|-----|----|----|----------|----|----|-----|
| 8 | 4 | M12x1.25 | 16 | / | 8 | 9.27 | 15 | 4 | M5 | 12 | 64 | 74 | 46 | 16 | M4x0.7 | 12 | 6 | 5 |
| 10 | 4 | M12x1.25 | 16 | / | 8 | 11.27 | 15 | 4 | M5 | 12 | 64 | 74 | 46 | 16 | M4x0.7 | 12 | 6 | 5 |
| 12 | 6 | M16x1.5 | 19 | 5 | 12 | 13.27 | 18 | 6 | M5 | 16 | 75 | 88 | 48 | 22 | M6x1 | 18 | 9 | 5 |
| 16 | 6 | M16x1.5 | 19 | 5 | 12 | 17.27 | 18 | 6 | M5 | 16 | 82 | 93 | 53 | 22 | M6x1 | 18 | 9 | 4.5 |
| 20 | 8 | M22x1.5 | 27 | 7 | 16 | 21.27 | 25.5 | 8 | 1/8"G | 20 | 95 | 111 | 67 | 24 | M8x1.25 | 20 | 12 | 8 |
| 25 | 10 | M22x1.5 | 30 | 9 | 16 | 26.5 | 28.5 | 8 | 1/8"G | 22 | 104 | 118 | 68 | 28 | M10x1.25 | 22 | 12 | 8 |

Doppio effetto ammortizzato
Double acting cushioned

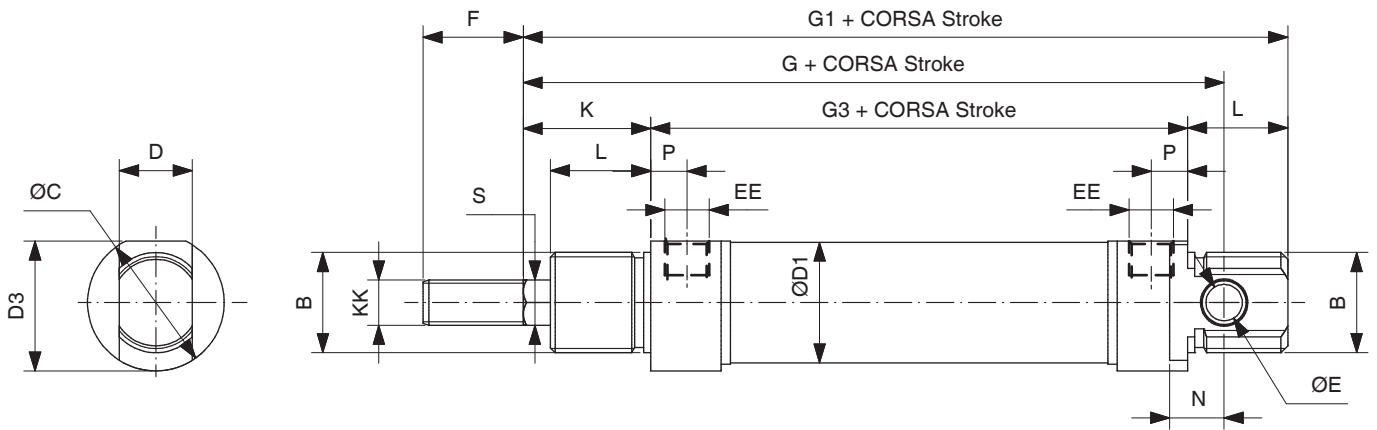
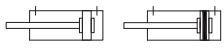
CDEA \emptyset /...RB - CDEMA \emptyset /...RB



| Ø | ØA | B | ØC | CH | D | ØD1 | D3 | ØE | EE | F | G | G1 | G3 | K | KK | L | N | P |
|----|----|---------|----|----|----|-------|------|----|-------|----|-----|-----|----|----|----------|----|----|-----|
| 16 | 6 | M16x1.5 | 21 | 5 | 12 | 17.27 | 20 | 6 | M5 | 16 | 82 | 93 | 55 | 22 | M6x1 | 17 | 9 | 5.5 |
| 20 | 8 | M22x1.5 | 27 | 7 | 16 | 21.27 | 25.5 | 8 | 1/8"G | 20 | 95 | 111 | 67 | 24 | M8x1.25 | 20 | 12 | 8 |
| 25 | 10 | M22x1.5 | 30 | 9 | 16 | 26.5 | 28.5 | 8 | 1/8"G | 22 | 104 | 118 | 68 | 28 | M10x1.25 | 22 | 12 | 8 |

Doppio effetto antirotazione esagonale
Double acting non-rotating hexagonal

CDE \emptyset /...ESRB - CDEM \emptyset /...ESRB



| Ø | B | ØC | D | ØD1 | D3 | ØE | EE | F | G | G1 | G3 | K | KK | L | N | P | S |
|----|---------|----|----|-------|------|----|-------|----|-----|-----|----|----|----------|----|----|-----|----|
| 16 | M16x1.5 | 19 | 12 | 17.27 | 18 | 6 | M5 | 16 | 82 | 93 | 53 | 22 | M6x1 | 18 | 9 | 4.5 | 6 |
| 20 | M22x1.5 | 27 | 16 | 21.27 | 25.5 | 8 | 1/8"G | 20 | 95 | 111 | 67 | 24 | M8x1.25 | 20 | 12 | 8 | 8 |
| 25 | M22x1.5 | 30 | 16 | 26.5 | 28.5 | 8 | 1/8"G | 22 | 104 | 118 | 68 | 28 | M10x1.25 | 22 | 12 | 8 | 10 |



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