

# Standard series

Nitrogen gas springs for dies / Cilindri all'azoto per stampi

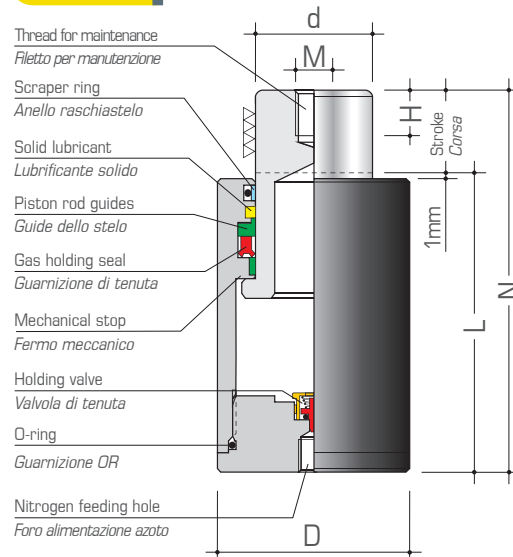


## CSM

NEW CSM SERIES 50% MORE POWERFUL than the old one even maintaining the same overall dimensions. The complete series is self-lubricated and protected against contaminants by rod scraper.

*NUOVA SERIE CSM POTENZIATA NELLE FORZE DEL 50% pur conservando le stesse dimensioni esterne della vecchia serie. Tutta la serie è autolubrificata e protetta da contaminanti con raschiastelo di protezione.*

CSM



### TECHNICAL NOTES

### NOTE TECNICHE

#### Important use instructions on pages 10 & 11

For accessories and other mountings, see the 'Accessories for nitrogen gas springs' catalogue.

#### Importanti istruzioni d'uso alle pagine 10 e 11

Per accessori e altri montaggi, consultare il catalogo 'Accessori per cilindri all'azoto'.

#### How to order

#### Esempio d'ordine

#### 8 CSM38-50 750daN

No. 8 nitrogen gas springs CSM  $\varnothing$  38 mm, stroke 50 mm, initial force 750 daN (new model).

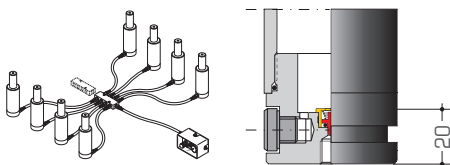
**ATTENTION: specify the required force**

#### 8 CSM38-50 750daN

N° 8 cilindri all'azoto CSM  $\varnothing$  38 mm, corsa 50 mm, forza iniziale 750 daN (nuovo modello).

**ATTENZIONE: indicare la forza desiderata**

Special version



### SPECIAL VERSION

Special cap with groove and G1/8 side hole, linkable to open system, from  $\varnothing$  50 mm.

» **L and N dimensions: + 20 mm**

» Add an **-S** to order them

Example: no. 8 pcs CSM50-50-**S**

### VERSIONE SPECIALE




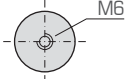
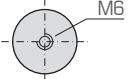
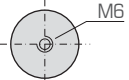
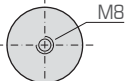
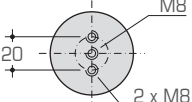
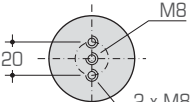
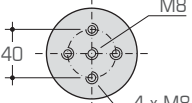
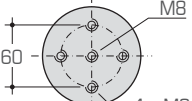
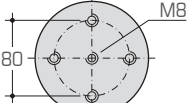
Da  $\varnothing$  50 mm tappo speciale con scanalatura e foro laterale G1/8, per collegamento a sistema.

» **Quote L e N: + 20 mm**

» Per ordinarli, aggiungere una **-S**

Esempio: n° 8 CSM50-50-**S**



| MODEL<br>MODELLO | MAX STROKE mm<br>CORSA MAX mm | L<br>mm | N<br>mm | D<br>mm | d<br>mm | M  | H<br>mm | <br>bar | <br>daN | <br>daN | GAS SPRING BASE<br>BASE DEL CILINDRO  |
|------------------|-------------------------------|---------|---------|---------|---------|----|---------|--|--|--|---|
| CSM19-10         | 10                            | 50      | 60      | 19      | 10      | M5 | 7       | 191  | 150  | 240  |    |
| 15               | 15                            | 55      | 70      |         |         |    |         |  |  |  |   |
| 25               | 25                            | 65      | 90      |         |         |    |         |  |  |  |   |
| 38               | 38                            | 78      | 116     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 90      | 140     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 120     | 200     |         |         |    |         |  |  |  |   |
| CSM25-10         | 10                            | 50      | 60      | 25      | 14      | M6 | 8       | 195  | 300  | 480  |    |
| 15               | 15                            | 55      | 70      |         |         |    |         |  |  |  |   |
| 25               | 25                            | 65      | 90      |         |         |    |         |  |  |  |   |
| 38               | 38                            | 78      | 116     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 90      | 140     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 120     | 200     |         |         |    |         |  |  |  |   |
| CSM32-10         | 10                            | 55      | 65      | 32      | 18      | M8 | 12      | 196  | 500  | 800  |    |
| 15               | 15                            | 60      | 75      |         |         |    |         |  |  |  |   |
| 25               | 25                            | 70      | 95      |         |         |    |         |  |  |  |   |
| 38               | 38                            | 83      | 121     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 95      | 145     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 125     | 205     |         |         |    |         |  |  |  |   |
| CSM38-10         | 10                            | 55      | 65      | 38      | 22      | M8 | 12      | 197  | 750  | 1200   |    |
| 15               | 15                            | 60      | 75      |         |         |    |         |  |  |  |   |
| 25               | 25                            | 70      | 95      |         |         |    |         |  |  |  |   |
| 38               | 38                            | 83      | 121     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 95      | 145     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 125     | 205     |         |         |    |         |  |  |  |   |
| CSM50-10         | 10                            | 60      | 70      | 50      | 30      | M8 | 12      | 212  | 1500   | 2400   |   |
| 25               | 25                            | 75      | 100     |         |         |    |         |  |  |  |   |
| 38               | 38                            | 88      | 126     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 100     | 150     |         |         |    |         |  |  |  |   |
| 63               | 63                            | 113     | 176     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 130     | 210     |         |         |    |         |  |  |  |   |
| 100              | 100                           | 150     | 250     |         |         |    |         |  |  |  |   |
| 125 ●            | 125                           | 190     | 315     |         |         |    |         |  |  |  |   |
| 160 ●            | 160                           | 235     | 395     |         |         |    |         |  |  |  |   |
| 200 ●            | 200                           | 275     | 475     |         |         |    |         |  |  |  |   |
| CSM63-10         | 10                            | 65      | 75      | 63      | 36      | M8 | 12      | 196  | 2000   | 3200   |  |
| 25               | 25                            | 80      | 105     |         |         |    |         |  |  |  |   |
| 38               | 38                            | 93      | 131     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 105     | 155     |         |         |    |         |  |  |  |   |
| 63               | 63                            | 118     | 181     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 135     | 215     |         |         |    |         |  |  |  |   |
| 100              | 100                           | 160     | 260     |         |         |    |         |  |  |  |   |
| 125 ●            | 125                           | 190     | 315     |         |         |    |         |  |  |  |   |
| 160 ●            | 160                           | 235     | 395     |         |         |    |         |  |  |  |   |
| 200 ●            | 200                           | 275     | 475     |         |         |    |         |  |  |  |   |
| CSM75-10         | 10                            | 65      | 75      | 75      | 45      | M8 | 12      | 189  | 3000   | 4800   |  |
| 25               | 25                            | 80      | 105     |         |         |    |         |  |  |  |   |
| 38               | 38                            | 93      | 131     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 105     | 155     |         |         |    |         |  |  |  |   |
| 63               | 63                            | 118     | 181     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 135     | 215     |         |         |    |         |  |  |  |   |
| 100              | 100                           | 155     | 255     |         |         |    |         |  |  |  |   |
| 125 ●            | 125                           | 200     | 325     |         |         |    |         |  |  |  |   |
| 160 ●            | 160                           | 250     | 410     |         |         |    |         |  |  |  |   |
| 200 ●            | 200                           | 300     | 500     |         |         |    |         |  |  |  |   |
| CSM95-25         | 25                            | 90      | 115     | 95      | 58      | M8 | 12      | 189  | 5000   | 8000   |  |
| 38               | 38                            | 103     | 141     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 115     | 165     |         |         |    |         |  |  |  |   |
| 63               | 63                            | 128     | 191     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 155     | 235     |         |         |    |         |  |  |  |   |
| 100              | 100                           | 185     | 285     |         |         |    |         |  |  |  |   |
| 125 ●            | 125                           | 220     | 345     |         |         |    |         |  |  |  |   |
| 160 ●            | 160                           | 260     | 420     |         |         |    |         |  |  |  |   |
| 200 ●            | 200                           | 310     | 510     |         |         |    |         |  |  |  |   |
| CSM120-25        | 25                            | 100     | 125     | 120     | 75      | M8 | 12      | 204  | 9000   | 14400  |  |
| 38               | 38                            | 113     | 151     |         |         |    |         |  |  |  |   |
| 50               | 50                            | 125     | 175     |         |         |    |         |  |  |  |   |
| 63               | 63                            | 138     | 201     |         |         |    |         |  |  |  |   |
| 80               | 80                            | 160     | 240     |         |         |    |         |  |  |  |   |
| 100              | 100                           | 190     | 290     |         |         |    |         |  |  |  |   |
| 125 ●            | 125                           | 225     | 350     |         |         |    |         |  |  |  |   |
| 160 ●            | 160                           | 270     | 430     |         |         |    |         |  |  |  |   |
| 200 ●            | 200                           | 320     | 520     |         |         |    |         |  |  |  |   |