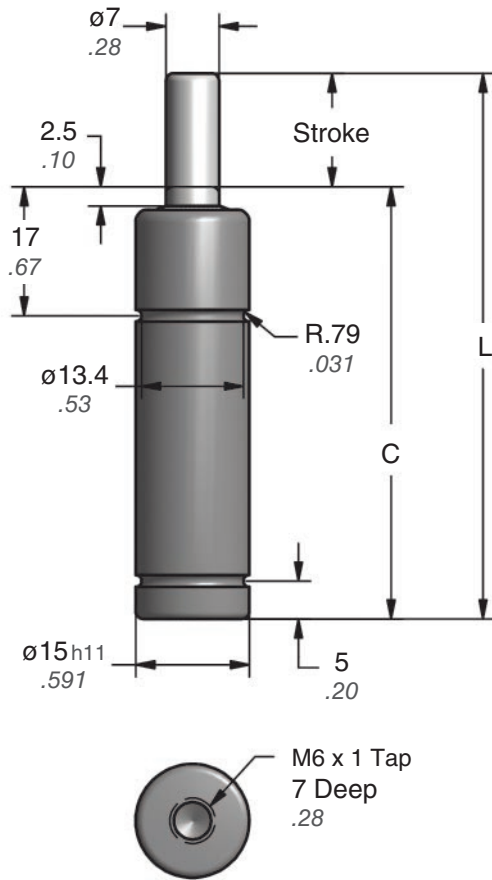


Micro Series Nitrogen Gas Springs

Micro 70™



Part No.	Stroke mm inch	C	L ± 0.4 ± 0.015
•C.070.007	07 .28	49 1.93	56 2.205
C.070.010	10 .39	52 2.05	62 2.441
C.070.013	12.7 .50	54.7 2.15	67.4 2.654
•C.070.015	15 .59	57 2.24	72 2.835
•C.070.025	25 .98	67 2.64	92 3.622
•C.070.038	38 1.50	80 3.15	118 4.646
•C.070.050	50 1.97	92 3.62	142 5.591
C.070.063	63.5 2.50	108.5 4.27	172 6.772
•C.070.080	80 3.15	125 4.92	205 8.071
C.070.100	100 3.94	145 5.71	245 9.646
C.070.125	125 4.92	170 6.69	295 11.614

• Preferred Sizes

Force Chart	Initial lb. daN	Final lb. daN	Pressure psi bar
Yellow - YW	154 68	208 93	2560 177
Red - RD	115 51	156 69	1920 132
Blue - BU	77 34	104 46	1280 88
Green - GR	38 17	52 23	640 44
Black - BK	See Charts		

Force on Contact – Adjustable Black Model

Pressure (psi)	Force (lb.-f)
2560	154
2200	132
2000	120
1750	105
1500	90
1000	60
500	30

Pressure (bar)	Force (daN)
177	68
150	57
125	48
100	38
75	29
50	19
35	13

$$P = F \div .060 \quad F = P \times .060$$

$$P = F \div 0.38 \quad F = P \times 0.38$$

Ordering Example:

C.070.007.GR

Part Number

Includes Series, Model and Stroke Length

Force

YW, RD, BU, GR

BK – Black adjustable model - specify pressure:
34 – 177 bar (500 – 2560 psi).

Ordering Example: C.070.007.BK.150

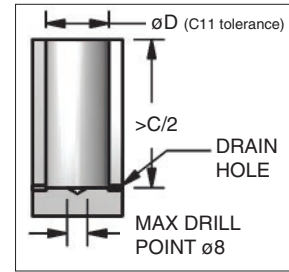
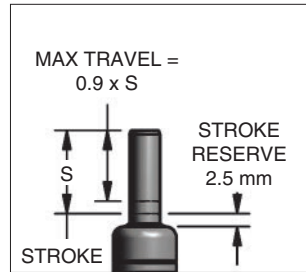
B09162

Micro 70™ Operating and Technical Specifications

Operating Specifications

Charging Medium: Nitrogen Gas
 Maximum Charging Pressure: 177 bar (2560 psi)
 Operating Temperature: -6°C – 71°C
 (20°F – 160°F)
 Maximum Speed: 35 m/min
 (23 in/sec)

- DO NOT exceed 90% of stroke
- Design adequate safety so spring is not over stroked
 - Stripping applications require a slight preload 0.5 mm – 1 mm (.02" – .04")

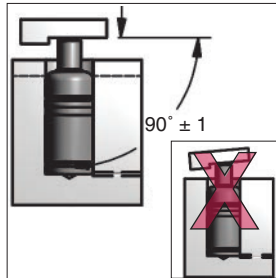


NOTE: For additional information on Micro Installation and Operation request Bulletin No. B00121E.

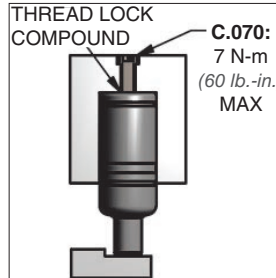
Installation Recommendations



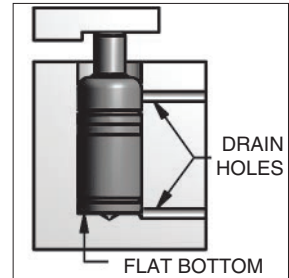
It is necessary to have a flat surface against the base of the spring in all circumstances. Incorrect pockets may cause structural damage or reduced life.



Side loading from axial or contact misalignment should be minimized, <math><1^\circ</math>.



Retain inverted cylinders as shown with M6 cap screw. A close tolerance hole is required, depth > C/2.



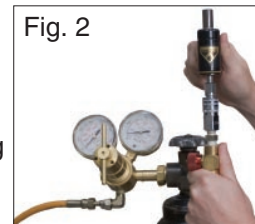
Provide adequate drainage in gas spring pockets. Direct contact with certain die lubricants and cleaners can be harmful to gas springs and may cause pressure increase.

Charging and Discharging Micro 70™ Gas Springs

CAUTION:

Always wear safety goggles when performing any maintenance work on gas springs.

- Use the Quick Disconnect Charging Nipple, 90.310.143, and the High Pressure Quick Disconnect Charging Assembly, 90.310.041, to charge the **Micro 70™** to the appropriate pressure (Fig. 1).
- When filling the **Micro 70™**, initially fill with low pressure (< 4 bar or 70 psi) to extend rod fully; then fill to desired pressure. Hold the spring vertically at all times during filling (Fig. 2).
- The **Micro 70™** charging pressure range is 35 bar - 177 bar (500 psi - 2560 psi).
- **All Micro Springs should be inspected before recharging. Do not recharge gas springs if damaged.**
- Before disposing of damaged or worn out gas springs be sure to discharge all pressure.
- Discharge through the adjustable valve using the Valve Bleed Tool, 90.360.4, or Charging Adapter, 90.315.5.
- If spring is damaged and cannot be discharged using the Valve Bleed Tool or Charging Adapter refer to the Micro Installation and Operation Bulletin #B00121E for more information.



DADCO®

The global leader in nitrogen gas spring technology

43850 Plymouth Oaks Blvd. • Plymouth, MI • 48170 • USA
 734.207.1100 • 800.DADCO.USA • fax 734.207.2222 • www.dadco.net