Operating Specifications

Charging Medium:  
Nitrogen Gas  
Max Charging Pressure C.045/C.070/C.090/C.180/C.250:  
177 bar (2560 psi)  
Max Charging Pressure E.16/E.24:  
150 bar (2175 psi)  
Max Charging Pressure U.0175/U.0325/SL.16:  
180 bar (2600 psi)

Maximum Speed:  
1.6 m/s (63 in/sec)

Operating Temperature:  
4°C – 71°C (40°F – 160°F)

General Information

• DO NOT exceed 90% of stroke  
• Stripping applications require a slight preload  
  0.5 mm – 1 mm (.02” – .04”)  
• Use enough force to strip the part  
• Design adequate safety so spring is not over stroked

In operation, should end support gap exceed M6 x 1 Tap length, do not exceed 90% of stroke.  
M6 x 1 Tap 7 mm (.28") deep

Installation in Pockets

It is necessary to have a flat surface against the base of the spring in all circumstances.  
Maximum drill point for C.045, C.070 is ø8 mm, C.090, C.180, C.250 is ø10 mm, U.0175 and U.0325 is ø0.012.  
Inverted pockets may cause structural damage or reduced life.

Recommended Mount Installation

A minimum thread engagement of 1.5 x thread diameter is recommended for threaded body cylinders.

Improper Installation Examples

1. Do not use the bottom mount in an unsupported or open mounting application.  
2. Do not constrain the rod end.

A minimum thread engagement of 1.5 x thread diameter is required.  
Use tapped holes in base to secure and pre-load if possible.

Uncontrolled Release

Jammed parts are very dangerous.  If parts are jamming, determine the root cause and repair it before production continues.  Failure to repair the problem will cause failure or damage of the gas spring.

Proper Disposal

Before throwing out damaged or worn out gas springs be sure to discharge all pressure.

CAUTION

Always wear safety goggles and use extreme care when handling a damaged gas spring.