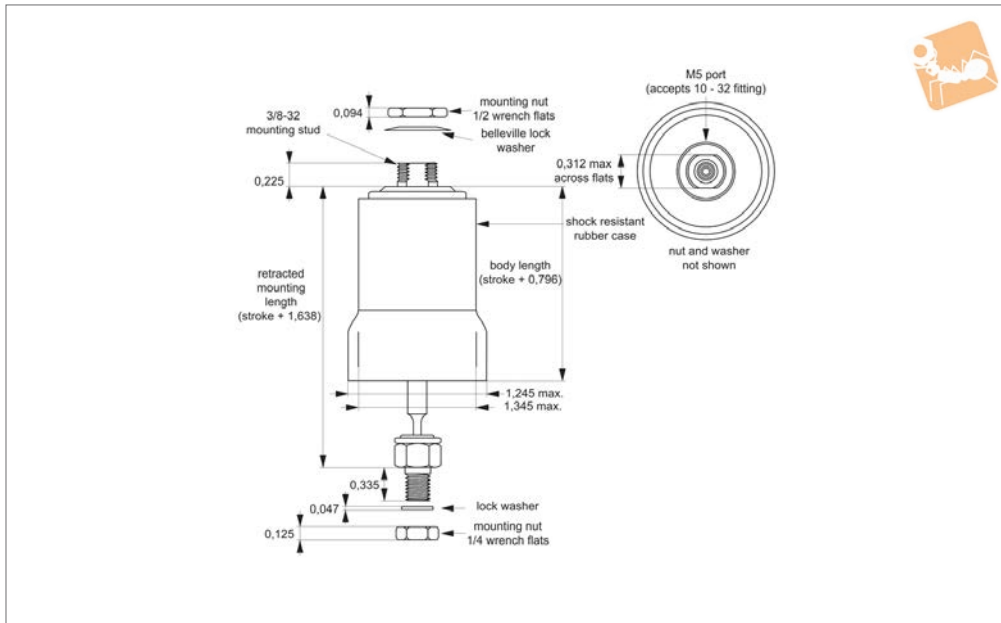




# Actuator

0,945" bore

# Cylinders



**L4596**

CYLINDERS

**Material**

- Graphite carbon piston.
- Annealed borosilicate glass cylinder.
- Precision fire-polished bore.
- Aluminium 2024-T4 piston rod.
- Shock resistant rubber case.

**Technical Notes**

- Piston area = 0.701 in<sup>2</sup> (452.25mm<sup>2</sup>)
- Pressure range = full vacuum - 100 psi (0.69 MPa)
- Force factor:
- Piston area x pressure = output force.
- Max force = 312.05N (at 0.69 MPa)

- Minimum pressure differential required for actuation = 0.05 psi (345 Pa)
- Friction coefficient = 0.2
- Force without side load typically 0.5% - 1.5% of load.
- Operating temperature range: -55°C to 150°C.
- If operating at temperatures about +70°C, please advise when placing order.

- Mounting data:
- Mounting hole:
- Rectangular: 0.312" x 0.375" (8mm x

- 10mm)
- Round: 0.375" (10mm).

- Suggested mounting bracket thickness = 0.060" - 0.125" (1.52mm - 3.18mm).
- Mounting nut torque:
- Head = 4-8 in-lb (0.45-0.90 Nm).
- Rod end = 5-15 in-lb (0.56-1.70 Nm)
- Fitting = 12 in-lb max.

\*Full stroke is obtained with customer held mounting tolerance of ±0.015" (0.038mm).

Order No.	Stroke	Rod end linkage	Bore dia.	Leak at 50 psi max. SL/min	Leak at 100 psi max. SL/min	Body length
L4596.0500	0,5"	1/4" Ball	0,945"	1.06	5.60	1,296"
L4596.1000	1,0"	1/4" Ball	0,945"	1.06	5.60	1,796"
L4596.2000	2,0"	1/4" Ball	0,945"	1.06	5.60	2,796"
L4596.3000	3,0"	1/4" Ball	0,945"	1.06	5.60	3,796"
L4596.4000	4,0"	1/4" Ball	0,945"	1.06	5.60	4,796"
L4596.5000	5,0"	1/4" Ball	0,945"	1.06	5.60	5,796"
L4596.6000	6,0"	1/4" Ball	0,945"	1.06	5.60	6,796"