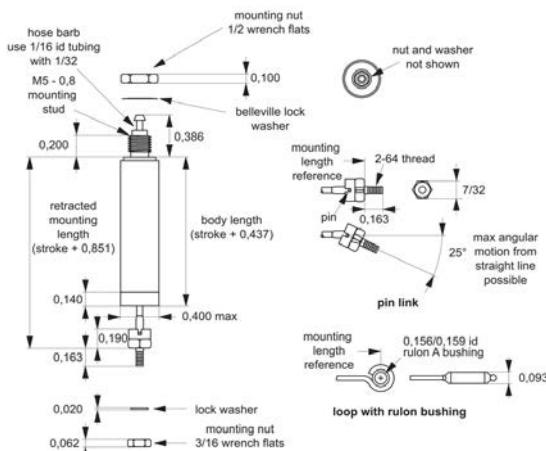


# Actuator

0,22" bore

Cylinders



**L4590**

CYLINDERS

## Material

Graphite carbon piston.  
Annealed borosilicate glass cylinder.  
Precision fire-polished bore.  
Stainless steel piston rod (AISI 304).  
Shock resistant rubber case.

## Technical Notes

Piston area = 0.038 in<sup>2</sup> (24.54mm<sup>2</sup>)  
Pressure range = full vacuum - 125 psi  
(0.86 MPa)  
Force factor:  
Piston area x pressure = output force.

Max force = 21.13N (at 0.86 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:

Suggested mounting bracket thickness = 0.050" - 0.100" (1.27mm - 2.54mm).

Mounting nut torque:

Head = 2-4 in-lb (0.23-0.45 Nm).

Rod end = 1-3 in-lb (0.11-0.34 Nm).

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

## Important Notes

Please see technical pages for information on end linkages.

Order No.	Stroke	Rod end linkage	Bore dia.	Leak at 65psi max. SL/min	Leak at 125 psi max. SL/min	Body length
<b>L4590.A0500</b>	0,5"	Pin	0,22"	0.19	0.57	0,916"
<b>L4590.A1000</b>	1,0"	Pin	0,22"	0.19	0.57	1,416"
<b>L4590.A1500</b>	1,5"	Pin	0,22"	0.19	0.57	1,916"
<b>L4590.A2000</b>	2,0"	Pin	0,22"	0.19	0.57	2,416"
<b>L4590.B0500</b>	0,5"	Loop	0,22"	0.19	0.57	0,916"
<b>L4590.B1000</b>	1,0"	Loop	0,22"	0.19	0.57	1,416"
<b>L4590.B1500</b>	1,5"	Loop	0,22"	0.19	0.57	1,916"
<b>L4590.B2000</b>	2,0"	Loop	0,22"	0.19	0.57	2,416"