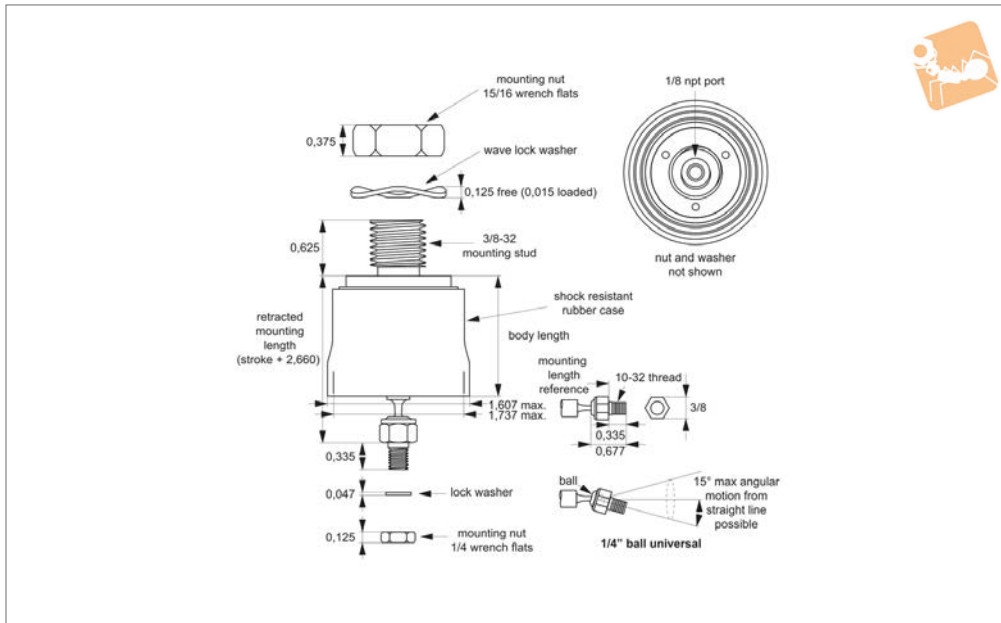




Actuator

1.281" bore

Cylinders



L4598

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 = 1.288 in² (830.97mm²)
 Pressure range = full vacuum - 100 psi (0.69 MPa)
 Force factor:
 Piston area x pressure = output force.

Max force = 573.37N (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:
 Round: 0.625" (16mm).
 Suggested mounting bracket thickness = 0.250" max (6.35mm).
 Mounting nut torque:
 Head = 40-60 in-lb (4.5-6.8 Nm).
 Rod end = 5-15 in-lb (0.56-1.70 Nm).
 * 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
L4598.0500	0,5"	1/4" Ball	1,281"	2.12	9.6	1,725"
L4598.1000	1,0"	1/4" Ball	1,281"	2.12	9.6	2,225"
L4598.2000	2,0"	1/4" Ball	1,281"	2.12	9.6	3,225"
L4598.3000	3,0"	1/4" Ball	1,281"	2.12	9.6	4,225"
L4598.4000	4,0"	1/4" Ball	1,281"	2.12	9.6	5,225"
L4598.5000	5,0"	1/4" Ball	1,281"	2.12	9.6	6,225"
L4598.6000	6,0"	1/4" Ball	1,281"	2.12	9.6	7,225"