ES-1 Table Slide

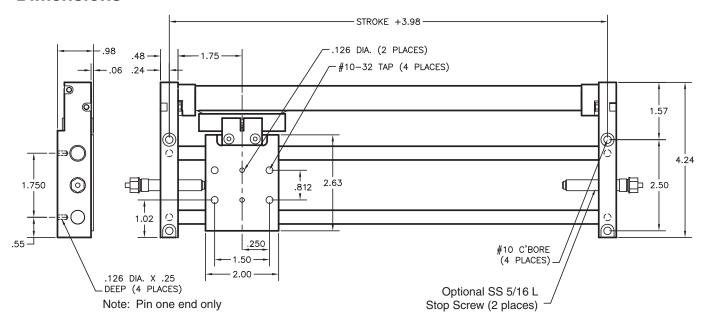




Features

- · External mounted rodless cylinder
- Rodless cylinder for short overall length
- 0.375 dia. case hardened & ground shafts
- 4 linear ball bearings and seals for extended cycle life
- Tapped & dowel pin holes in anodized body for ease of mounting
- Tapped & dowel pin holes in anodized end plates for ease of mounting
- Hardened adjustable stopscrews for accurate and repeatable positioning
- End of stroke sensing switches are available for stopscrews

Dimensions



NOTE: Flow controls are recommended for all applications.



Technical Data

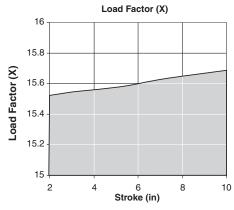
Bore = .38" Force @ 80 psi = 9 lbs

Operating medium = compressed air 60-100 psi

Air connection = 10-32Repeat accuracy = +/-0.0005"

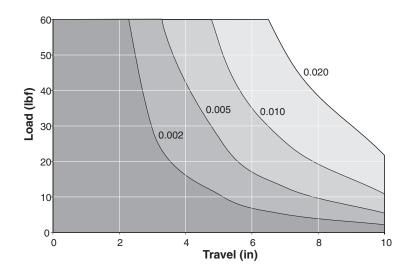
Life expectancy = >100 million travel inches

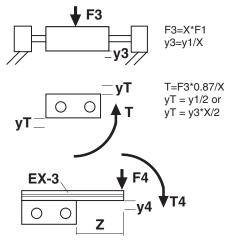
Force diagrams below depict the load and the resultant deflection caused by that force (or torque).



The load factor (X) is used in calculations as a relationship between a load on the ends (F1) versus a load in the center (F3).

F3 Load vs. Travel at set Deflection (y₃) for the ES-1





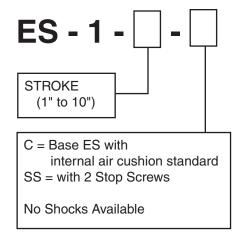
For T4 = T; If T4 = F4*(z+0.87) and T=F3*0.87/X then,

F4 = F3*0.87/(X*(z+0.87))

-F4 is the force that will cause a deflection (yT) at the block's edge. To determine the deflection at the cantilever end use the following:

y4 = F4*z3/(9.78E+07)

Ordering & Options



For end of stroke sensing, see page 49-53

