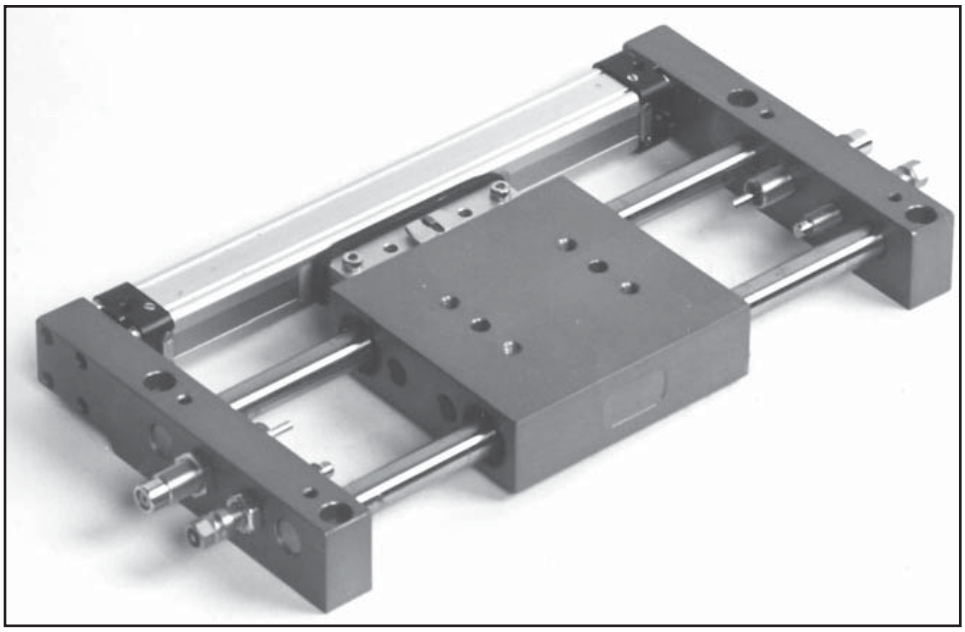
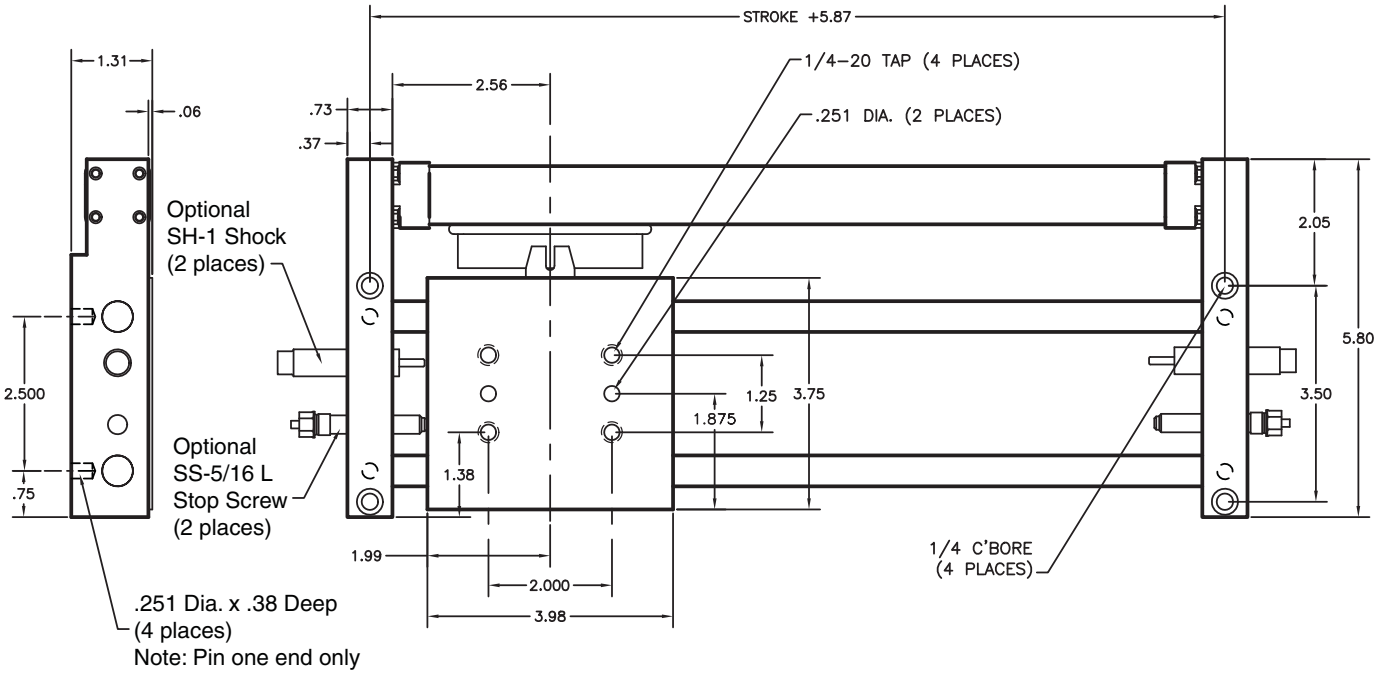
ES-2 Table Slide

Features



- External mounted rodless cylinder
- Rodless cylinder for short overall length
- 0.50 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
- Hydraulic shock absorbers
- End of stroke sensing switches are available for stopscrews

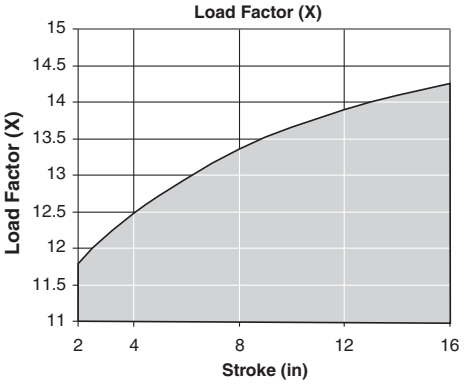
Dimensions



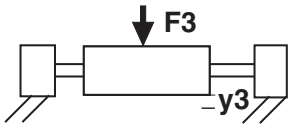
NOTE: Flow controls are recommended for all applications.

Technical Data

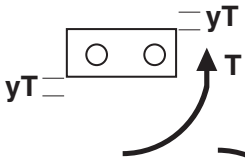
- Bore = .62"
- Force @ 80 psi = 24 lbs
- Operating medium = compressed air 60-100 psi
- Air connection = 10-32
- Repeat accuracy = +/-0.0005"
- Life expectancy = >100 million travel inches
- Force diagrams below depict the load and the resultant deflection caused by that force (or torque).



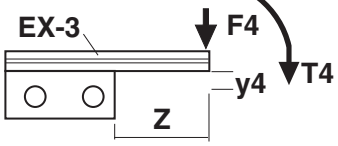
The load factor (X) is used in calculations as a relationship between a load on the ends (F1) versus a load in the center (F3).



F3=X*F1
$y_3=y_1/X$



T=F3*1.25/X
$y_T = y_1/2$ or
$y_T = y_3*X/2$

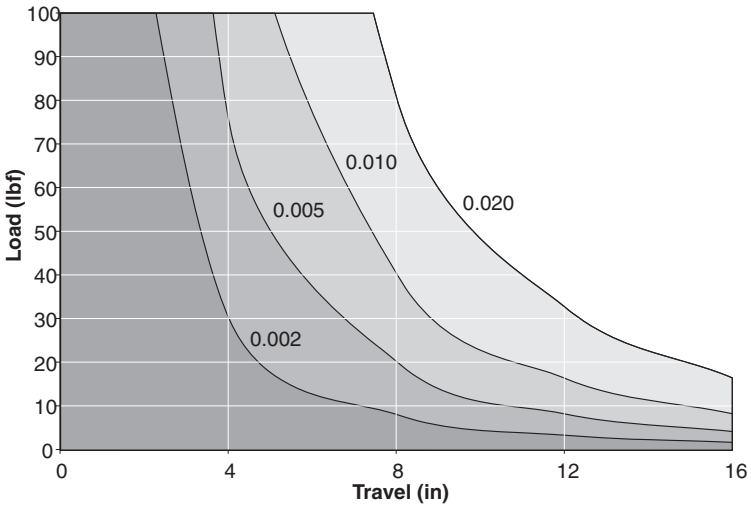


For T4 = T;
If T4 = F4*(z+1.25) and T=F3*1.25/X then,

F4 = F3*1.25/(X*(z+1.25))

-F4 is the force that will cause a deflection (y_T) at the block's edge. To determine the deflection at the cantilever end use the following:
$y_4 = F4*z^3/(9.78E+07)$

F3 Load vs. Travel at set Deflection (y_3) for the ES-2



Ordering & Options

ES - 2 - ☐ - ☐

STROKE
(1" to 16")

C = Base ES with
internal air cushion standard
SS = with 2 Stop Screws
SH = with 2 Shock Absorbers
SB = with both Stopscrews &
Shock Absorbers

For end of stroke sensing, see page 49-53