



# STAINLESS STEEL CYLINDER

## NUMBERING SYSTEM

**Mounting Type**  
 S - Stud  
 U - Universal  
 C - Clevis  
 F - Front Block  
 E - End Stud  
 T - Trunnion

**Rod Type**  
 D - Double Ended Rod  
 R - Rotating Rod  
 N - Non-Rotating Rod  
 H - Hollow Rod

**Cylinder Type**  
 D - Double Acting  
 S - Single Acting  
 R - Reverse Acting  
 F - Front Spring Bias  
 B - Back Spring Bias

**Bore**  
 5/32" - page 9  
 05 - 5/16"  
 08 - 1/2"  
 09 - 9/16"  
 10 - 5/8"  
 12 - 3/4"  
 14 - 7/8"

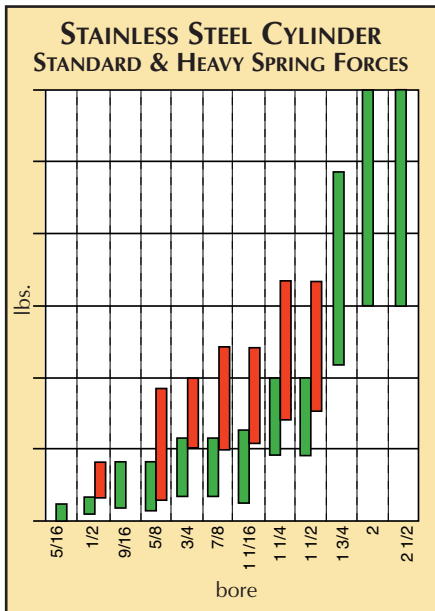
**Stroke**  
 In inches & fractions of an inch  
 17 - 1 1/16"  
 20 - 1 1/4"  
 24 - 1 1/2"  
 28 - 1 3/4"  
 32 - 2"  
 40 - 2 1/2"  
 48 - 3"

**Options**  
 C - Cushions  
 F - Cushion Front End  
 R - Cushion Rear End  
 M - Magnetic Piston for Position Sensors  
 B - Bumpers  
 W - Rod Wiper  
 V - FKM Seals  
 N - No Threads  
 S - Side Ported  
 H - Heavy Spring  
 P\* - Rotated Ports  
 \* See page 4  
 TG - PTFE Based Grease

RoHS

Not all combinations are available - consult factory

## SPECIFICATIONS



Bore Size	5/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1-1/16"	1-1/4"	1-1/2"	1-3/4"	2"	2-1/2"	3"
<b>Force Factor - Extend (Area)</b>	0.07	0.19	0.25	0.31	0.44	0.60	0.88	1.2	1.7	2.4	3.1	4.9	7.0
<b>Force Factor - Retract (Area)</b>	0.06	0.16	0.22	0.28	0.39	0.55	0.80	1.09	1.55	2.20	2.90	4.59	6.56

The force required, operating air pressure and cylinder bore are all factors that must be determined or known when sizing an air cylinder. If two are known the other is easily calculated per the formulas and triangle shown below.

**F - Force or load in pounds**       $F = P \times A$   
**P - Pressure**       $P = F / A$   
**A - Area of cylinder**       $A = F / P$   
 (square inches)

Area is derived using either of the following formulas: **Diameter** <sup>2</sup> x 0.7854 or **Radius** <sup>2</sup> x  $\pi$

