

POROUS MEDIA[™] AIR BUSHING

3.00 Inch Inside Diameter

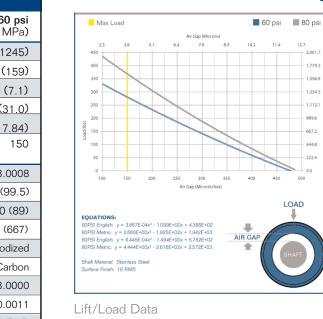


SPECIFICATIONS: 3.00 Inch ID #S307501

3.00 Inch ID Air Bushings

Largest of the New Way english air bushing line, the 3.00 Inch ID size provides the scale necessary for more significant loadcarrying capability on english shafting. These porous media bushings are an inexpensive way to achieve frictionless linear motion, and compare favorably with conventional rolling element bearings across virtually every performance characteristic. They are also easy to apply, replace or change.

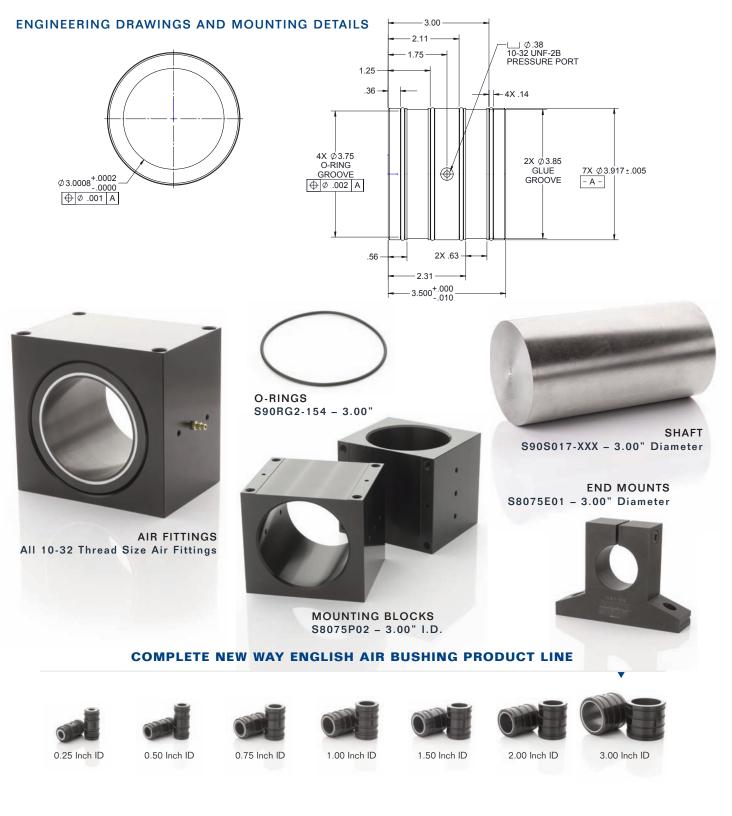
TEST DATA - 3.00 Inch ID Air Bushing



Input Pressure	60 psi (0.41 MPa)
Radial Load Max Ibs (N)	280 (1245)
Radial Stiffness Ibs/ μ in (N/ μ m)	0.91 (159)
Pitch Moment Max Ibs-in (N-m)	63.0 (7.1)
Pitch Stiffness Ibs-in/mil rad (N-m/mil r	ad) 275 (31.0)
Flowrate on Shaft SCFH (NLPM) 28.00 - 37.80 (13.21 - 17.84)	
Air Gap (at maximum recommended loa micro-inches	ad) 150
Bushing Inside Diameter - ID in +0.000	2,-0.0000 3.0008
Bushing Outside Diameter - OD in (mm)	3.917 (99.5)
Bushing Length in (mm)	3.500 (89)
Bushing Weight oz. (grams)	23.5 (667)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter -	OD in 3.0000
Recommended Shaft Tolerance (g6) in	-0.0004 , -0.0011
Pressure Port Threads	10-32 UNF 2B
Viable Pressure Range psi (MPa)	60 - 80 (0.414 - 0.552)
Maximum Allowable Pressure Supply psi	(MPa) 100 (0.689)
Resolution	Infinite
Maximum Speed ft/sec (m/sec)	164.04 (50)
Common Shaft Materials	Anodized aluminum, stainless steel, nickel plated steel, ceramics, glass

POROUS MEDIA™ AIR BUSHING

3.00 Inch ID





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