

POROUS MEDIA™ AIR BUSHING

2.00 Inch Inside Diameter

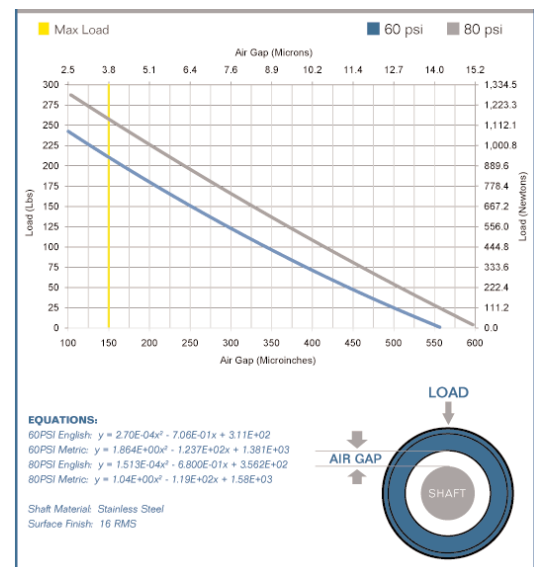


2.00 Inch ID Air Bushings

Second largest of the New Way english air bushing line, the 2.00 Inch ID size provides the scale necessary for more significant load-carrying 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.

SPECIFICATIONS: 2.00 Inch ID #S305001	
Input Pressure	60 psi (0.41 MPa)
Radial Load Max lbs (N)	210 (934)
Radial Stiffness lbs/μ in (N/μm)	0.63 (110)
Pitch Moment Max lbs-in (N-m)	46.0 (5.2)
Pitch Stiffness lbs-in/mil rad (N-m/mil rad)	202 (23.0)
Flowrate on Shaft SCFH (NLPM)	19.00 - 25.20 (8.97 - 11.89)
Air Gap (at maximum recommended load) micro-inches	150
Bushing Inside Diameter - ID in	+0.0002 , -0.0000 2.0008
Bushing Outside Diameter - OD in (mm)	2.918 (74.1)
Bushing Length in (mm)	3.500 (89)
Bushing Weight oz. (grams)	16.5 (467.8)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD in	2.0000
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

TEST DATA – 2.00 Inch ID Air Bushing

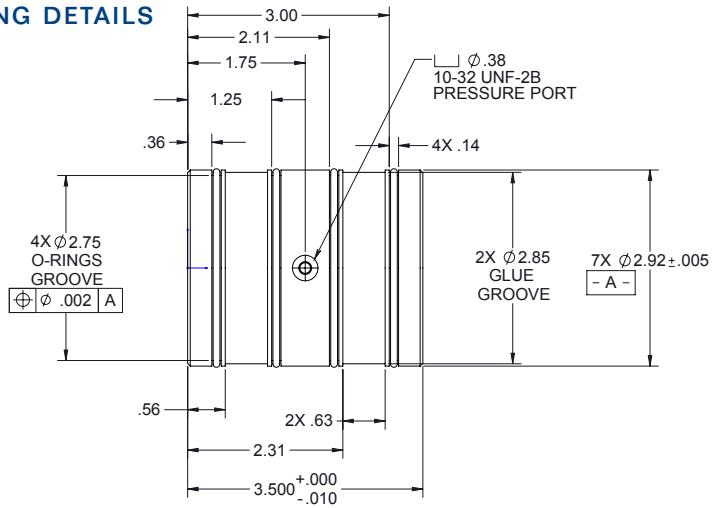
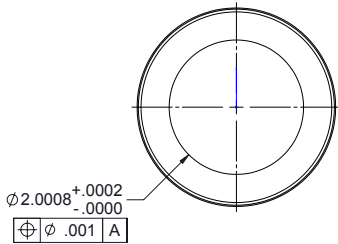


Lift/Load Data

POROUS MEDIA™ AIR BUSHING

2.00 Inch ID

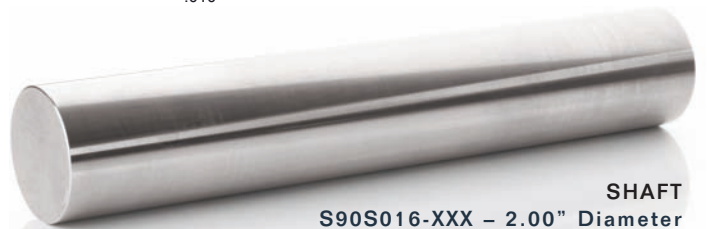
ENGINEERING DRAWINGS AND MOUNTING DETAILS



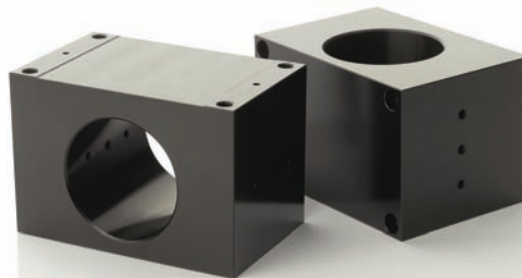
AIR FITTINGS
 All 10-32 Thread Size Air Fittings



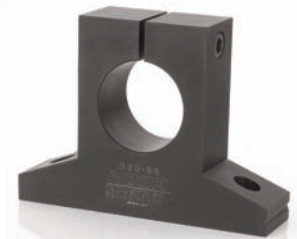
O-RINGS
 S90RG2-148 - 2.00"



SHAFT
 S90S016-XXX - 2.00" Diameter



MOUNTING BLOCKS
 S8050P02 - 2.00" I.D.



END MOUNTS
 S8050E01 - 2.00" Diameter

COMPLETE NEW WAY ENGLISH AIR BUSHING PRODUCT LINE



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 air bearings

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