

POROUS MEDIA™ AIR BUSHING

0.50 Inch Inside Diameter

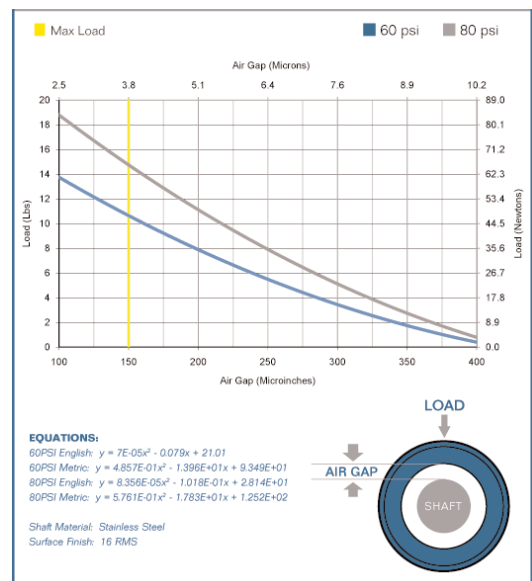


0.50 Inch ID Air Bushings

Second smallest of the New Way english air bushing line, the 0.50 Inch ID size provides excellent load-carrying capability with the flexibility to fit into tight designs 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: 0.50 Inch ID #S301201	
Input Pressure	60 psi (0.41 MPa)
Radial Load Max lbs (N)	10 (44)
Radial Stiffness lbs/μ in (N/μm)	0.06 (11)
Pitch Moment Max lbs-in (N-m)	7.5 (0.8)
Pitch Stiffness lbs-in/mil rad (N-m/mil rad)	19 (2.1)
Flowrate on Shaft SCFH (NLPM)	4.75 - 6.60 (2.24 - 3.11)
Air Gap (at maximum recommended load) micro-inches	150
Bushing Inside Diameter - ID in	+0.0002, -0.0000 0.5008
Bushing Outside Diameter - OD in (mm)	0.932 (23.7)
Bushing Length in (mm)	2.000 (51)
Bushing Weight oz. (grams)	1.2 (33)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD in	0.5000
Recommended Shaft Tolerance (g6) in	-0.0002, -0.0007
Pressure Port Threads	M3 x 0.5
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 – 0.50 Inch ID Air Bushing

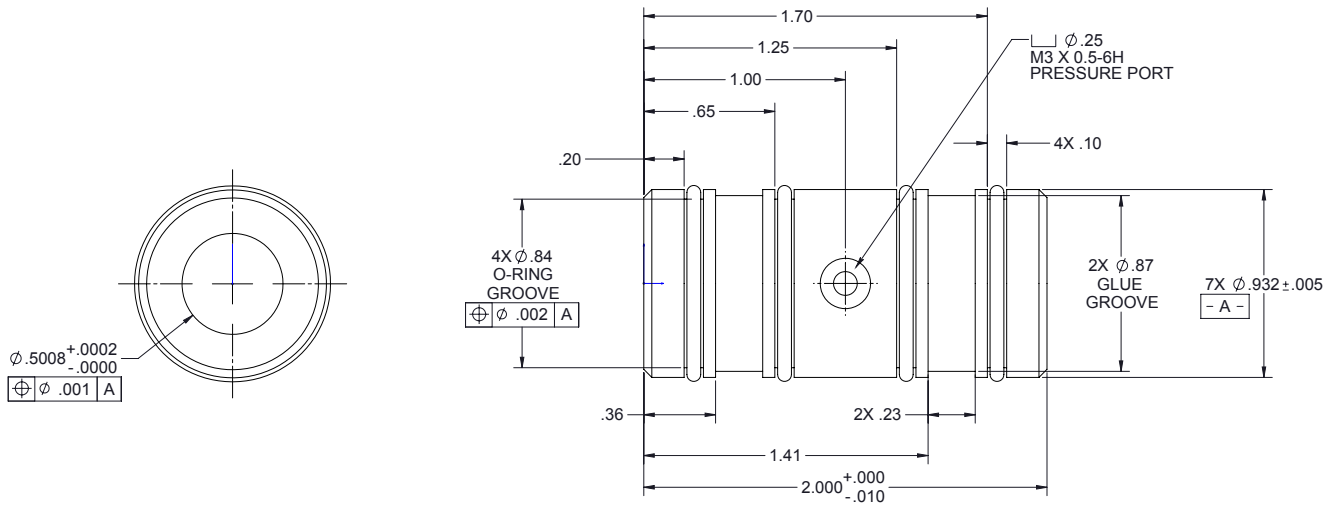


Lift/Load Data

POROUS MEDIA™ AIR BUSHING

0.50 Inch ID

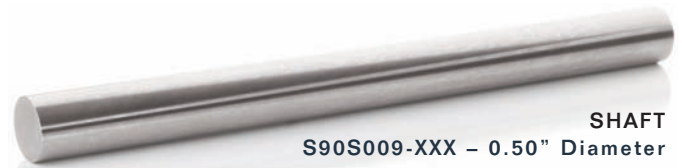
ENGINEERING DRAWINGS AND MOUNTING DETAILS



AIR FITTINGS
All M3 Thread Size Air Fittings



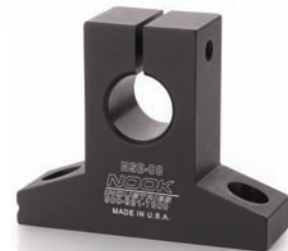
O-RINGS
S90RG2-019 – 0.50"



SHAFT
S90S009-XXX – 0.50" Diameter



MOUNTING BLOCKS
S8012P02 – 0.50" I.D.



END MOUNTS
S8012E01 – 0.50" Diameter

COMPLETE NEW WAY ENGLISH AIR BUSHING PRODUCT LINE



0.25 Inch ID



0.50 Inch ID



0.75 Inch ID



1.00 Inch ID



1.50 Inch ID



2.00 Inch ID



3.00 Inch ID

NEWWAY®
air bearings

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