

## POROUS MEDIA™ AIR BUSHING

### 1.00 Inch Inside Diameter

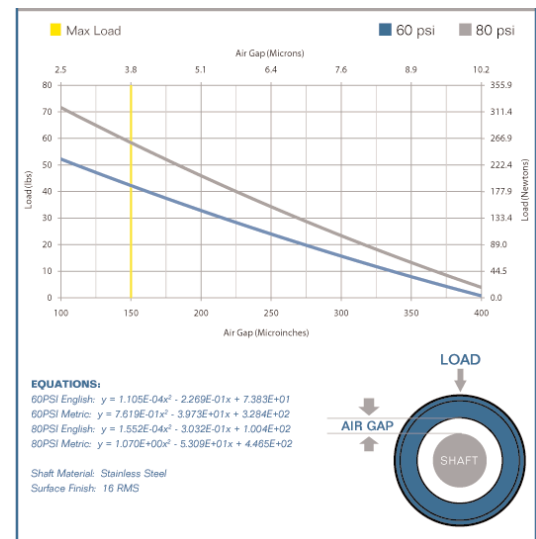


#### 1.00 Inch ID Air Bushings

Right in the center of the New Way seven-size english air bushing line, the 1.00 Inch ID size provides a good balance of size and 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: 1.00 Inch ID #S302501	
Input Pressure	<b>60 psi</b> (0.41 MPa)
Radial Load Max lbs (N)	42 (187)
Radial Stiffness lbs/μ in (N/μm)	0.19 (34)
Pitch Moment Max lbs-in (N-m)	17 (1.9)
Pitch Stiffness lbs-in/mil rad (N-m/mil rad)	47 (5.3)
Flowrate on Shaft SCFH (NLPM)	9.50 - 12.60 (4.48 - 5.95)
Air Gap (at maximum recommended load) micro-inches	150
Bushing Inside Diameter - ID in	+0.0002 , -0.0000 1.0008
Bushing Outside Diameter - OD in (mm)	1.532 (38.9)
Bushing Length in (mm)	2.250 (57)
Bushing Weight oz. (grams)	2.9 (82.2)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD in	1.0000
Recommended Shaft Tolerance (g6) in	-0.0003 , -0.0008
PressurePort 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 – 1.00 Inch ID Air Bushing

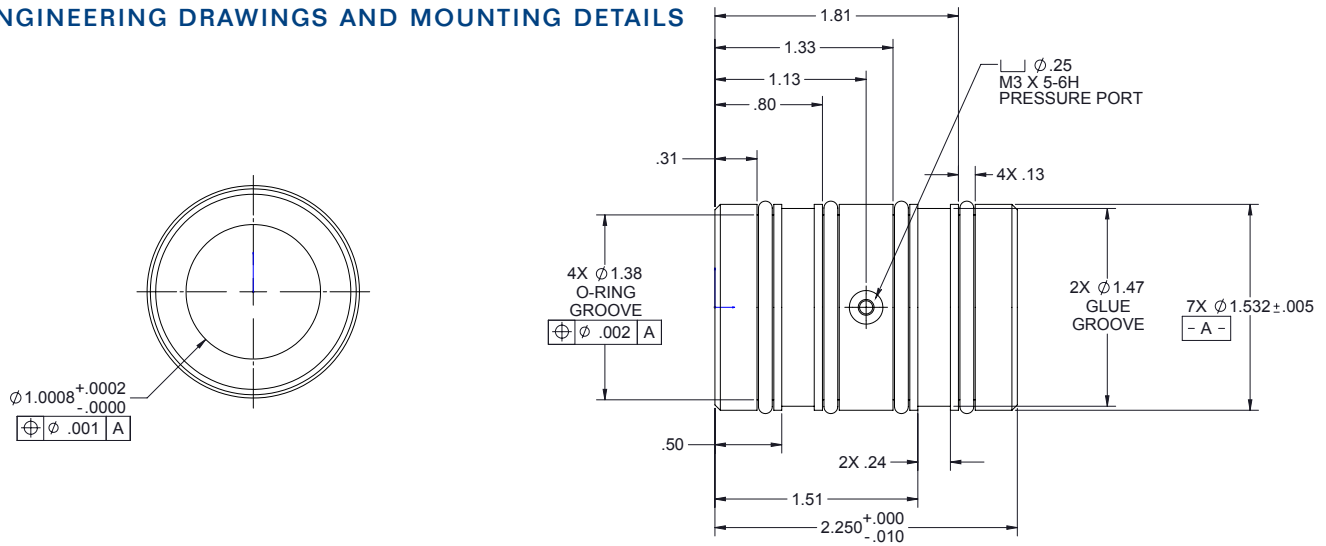


Lift/Load Data

# POROUS MEDIA™ AIR BUSHING

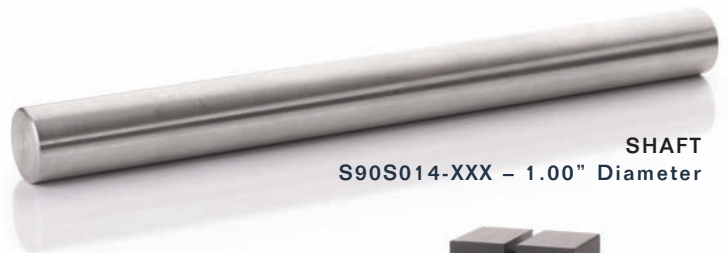
1.00 Inch ID

## ENGINEERING DRAWINGS AND MOUNTING DETAILS



**AIR FITTINGS**  
All M3 Thread Size Air Fittings

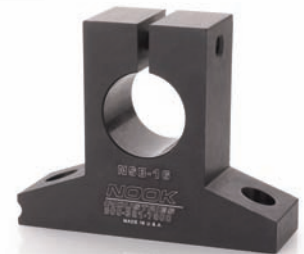
**O-RINGS**  
S90RG2-126 - 1.00"



**SHAFT**  
S90S014-XXX - 1.00" Diameter



**MOUNTING BLOCKS**  
S8025P02 - 1.00" I.D.



**END MOUNTS**  
S8025E01 - 1.00" 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



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