

POROUS MEDIA™ AIR BUSHING

25mm Inside Diameter

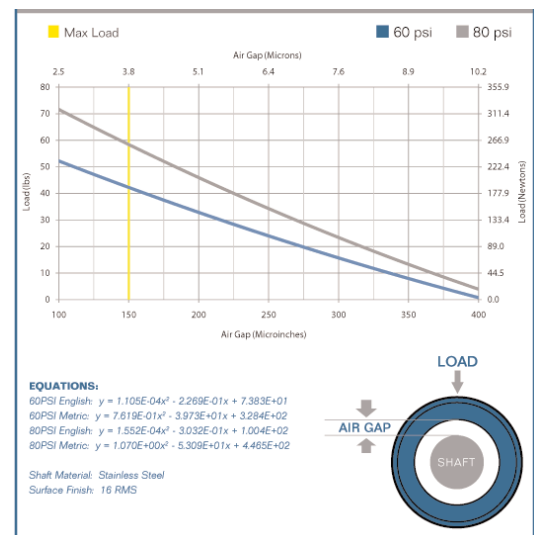


25mm ID Air Bushings

Third smallest of the New Way metric air bushing line, the 25mm ID size provides a good balance of size and load-carrying capability on metric 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: 25mm #S302502	
Input Pressure	.41 MPa (60psi)
Radial Load Max N (lbs)	187 (42)
Radial Stiffness N/μm (lbs/μ in)	34 (0.19)
Pitch Moment Max N-m (lbs-in)	1.9 (17.0)
Pitch Stiffness N-m/mil rad (lbs-in/mil rad)	5.3 (47)
Flowrate on Shaft NLPM (SCFH)	4.48 - 5.95 (9.50 - 12.60)
Air Gap (at maximum recommended load) microns	4
Bushing Inside Diameter - ID mm	+0.0051 , -0.0000 25
Bushing Outside Diameter - OD mm (in)	38.9 (1.532)
Bushing Length mm (in)	57 (2.250)
Bushing Weight grams (oz.)	83.6 (2.95)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD mm	25.0000
Recommended Shaft Tolerance (g6) μm	-7 , -20
Pressure Port Threads	M3 x 0.5
Viable Pressure Range MPa (psi)	0.414 - 0.552 (60 - 80)
Maximum Allowable Pressure Supply MPa (psi)	0.689 (100)
Resolution	Infinite
Maximum Speed m/sec (ft/sec)	50 (164.04)
Common Shaft Materials	Anodized aluminum, stainless steel, nickel plated steel, ceramics, glass

TEST DATA – 25mm ID Air Bushing

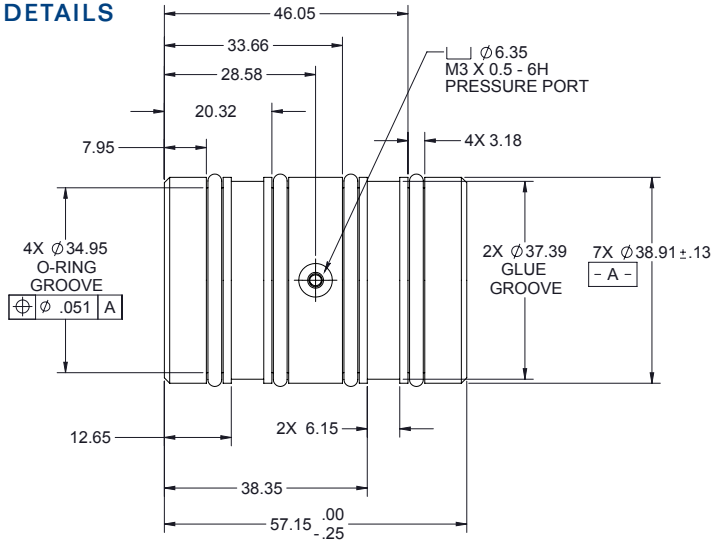
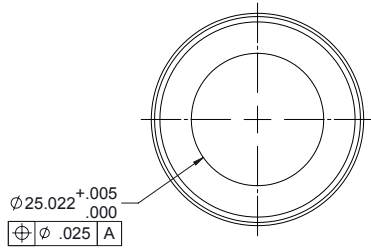


Lift/Load Data

POROUS MEDIA™ AIR BUSHING

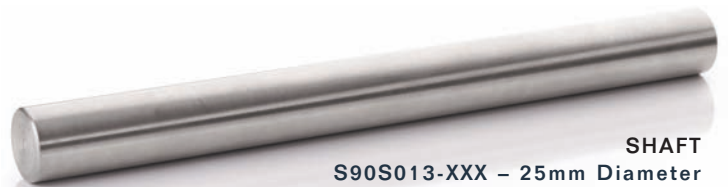
25mm ID

ENGINEERING DRAWINGS AND MOUNTING DETAILS



AIR FITTINGS
 All M3 Thread Size Air Fittings

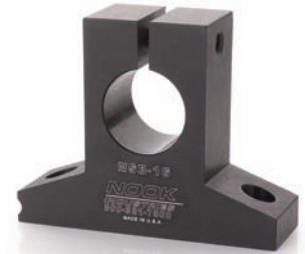
O-RINGS
 S90RG2-126 - 25mm



SHAFT
 S90S013-XXX - 25mm Diameter

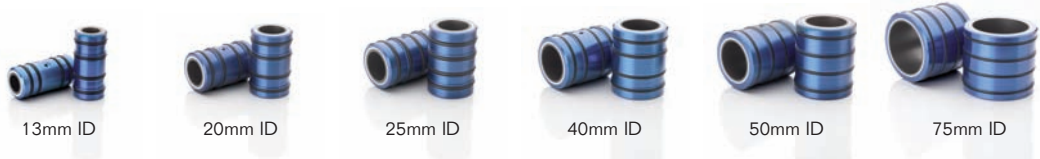


MOUNTING BLOCKS
 S8025P02 - 25mm I.D.



END MOUNTS
 S8025E02 - 25mm Diameter

COMPLETE NEW WAY METRIC AIR BUSHING PRODUCT LINE



13mm ID

20mm ID

25mm ID

40mm ID

50mm ID

75mm ID



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