

## POROUS MEDIA™ AIR BUSHING

13mm Inside Diameter



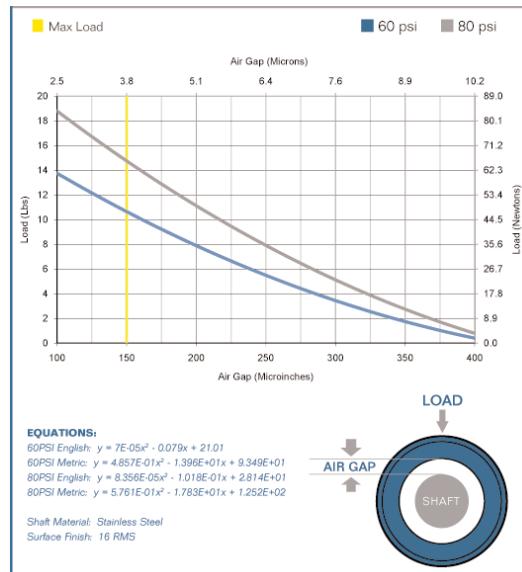
### SPECIFICATIONS: 13mm #S301301

Input Pressure	.41 MPa (60psi)
Radial Load Max N (lbs)	44 (10)
Radial Stiffness N/μm (lbs/μ in)	11 (0.06)
Pitch Moment Max N-m (lbs-in)	0.8 (7.5)
Pitch Stiffness N-m/mil rad (lbs-in/mil rad)	2.1 (19.0)
Flowrate on Shaft NLPm (SCFH)	2.24 - 3.11 (4.75 - 6.60)
Air Gap (at maximum recommended load) microns	4
Bushing Inside Diameter - ID mm	+0.0051, -0.0000
Bushing Outside Diameter - OD mm (in)	13
Bushing Length mm (in)	23.7 (0.932)
Bushing Weight grams (oz.)	51 (2.000)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD mm	13.0000
Recommended Shaft Tolerance (g6) μm	-5, -17
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

### 13mm ID Air Bushings

Smallest of the New Way metric air bushing line, the 13mm ID size provides excellent load-carrying capability with the flexibility to fit into tight designs 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.

### TEST DATA – 13mm ID Air Bushing

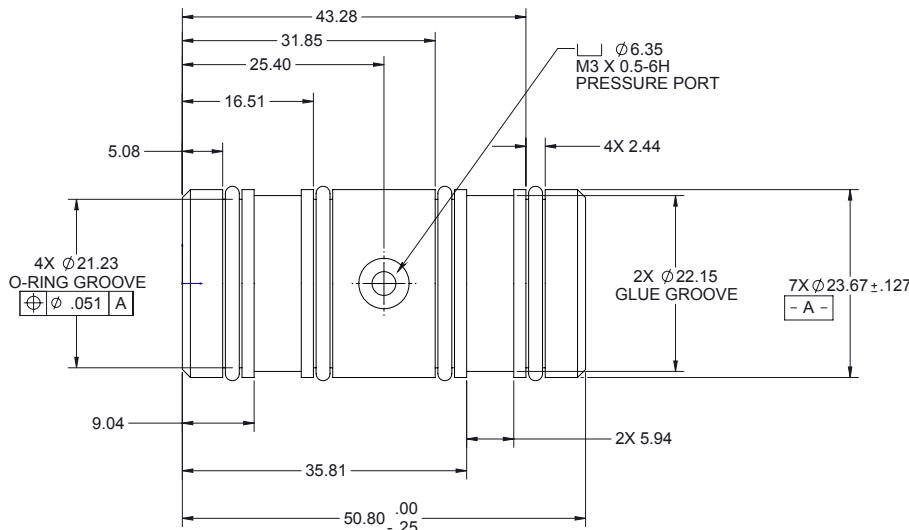
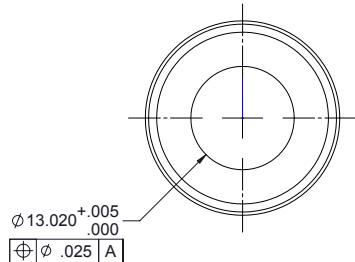


Lift/Load Data

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13mm ID

## ENGINEERING DRAWINGS AND MOUNTING DETAILS



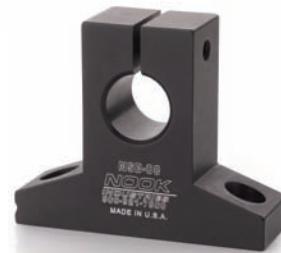
AIR FITTINGS  
All M3 Thread Size Air Fittings



SHAFT  
S90S011-XXX – 13mm Diameter



O-RINGS  
S90RG2-019 – 13mm



END MOUNTS  
S8013E02 – 13mm Diameter



MOUNTING BLOCKS  
S8012P02 – 13mm I.D.

## COMPLETE NEW WAY METRIC AIR BUSHING PRODUCT LINE



13mm ID



20mm ID



25mm ID



40mm ID



50mm ID



75mm ID

**NEWWAY®**  
air bearings

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