

# POROUS MEDIA™ AIR BUSHING

## 13mm Inside Diameter



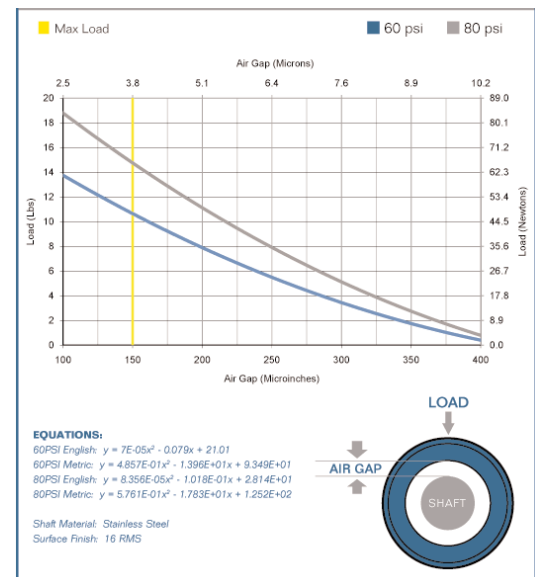
### 13mm ID Air Bushings

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.

#### 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 13
Bushing Outside Diameter - OD mm (in)	23.7 (0.932)
Bushing Length mm (in)	51 (2.000)
Bushing Weight grams (oz.)	32.6 (1.15)
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

### TEST DATA – 13mm ID Air Bushing

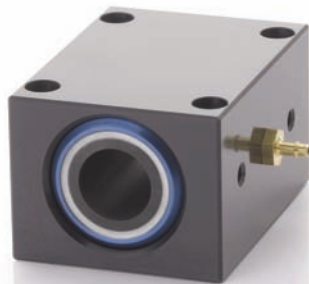
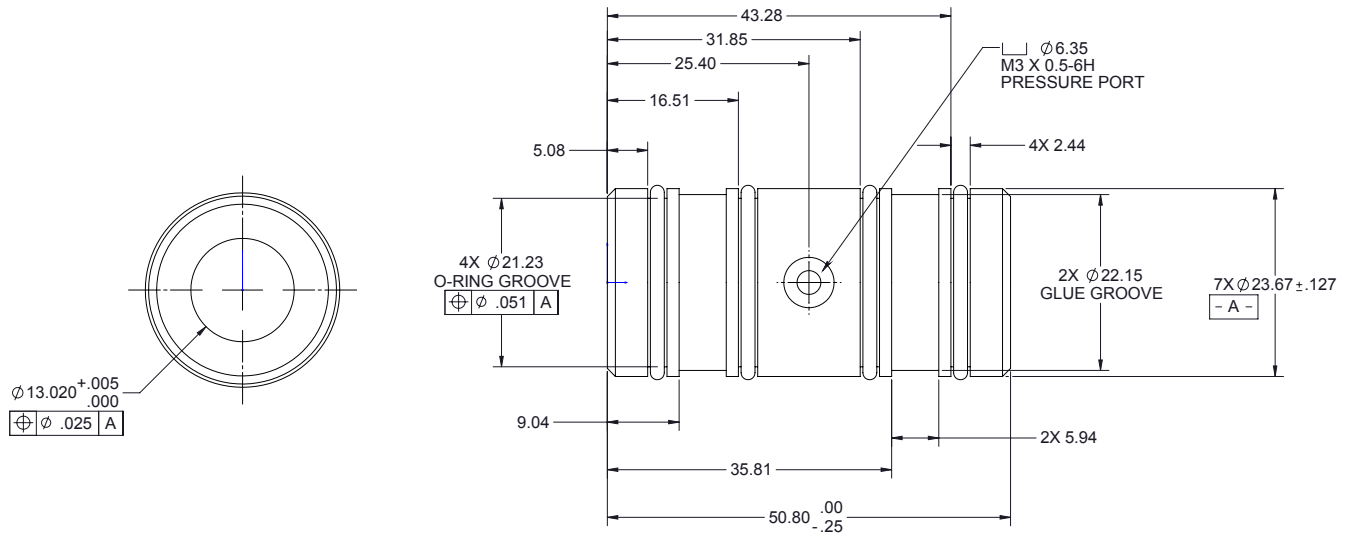


Lift/Load Data

# POROUS MEDIA™ AIR BUSHING

13mm ID

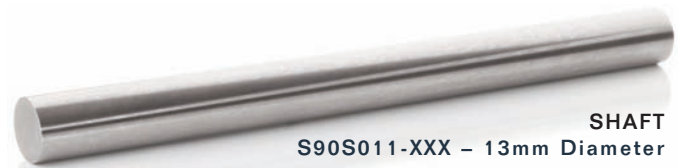
## ENGINEERING DRAWINGS AND MOUNTING DETAILS



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



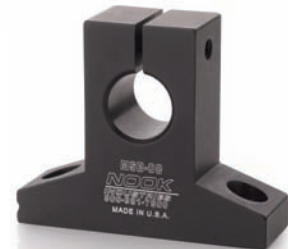
**O-RINGS**  
S90RG2-019 – 13mm



**SHAFT**  
S90S011-XXX – 13mm Diameter



**MOUNTING BLOCKS**  
S8012P02 – 13mm I.D.



**END MOUNTS**  
S8013E02 – 13mm Diameter

## 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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