

# POROUS MEDIA™ AIR BUSHING

## 40mm Inside Diameter

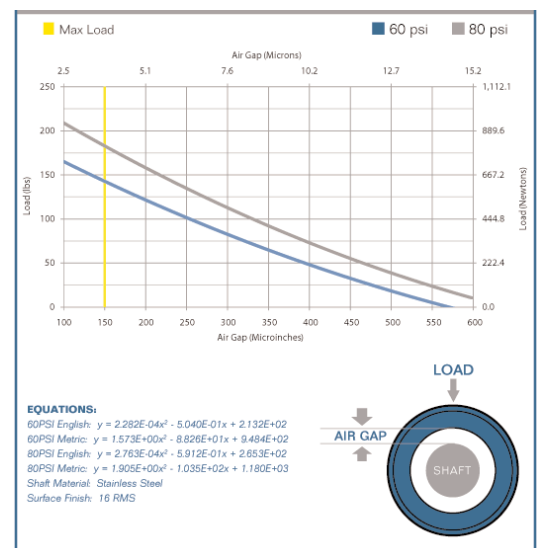


### 40mm ID Air Bushings

Third largest of the New Way metric air bushing line, the 40mm 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: 40mm #S304002	
Input Pressure	.41 MPa (60psi)
Radial Load Max N (lbs)	645 (145)
Radial Stiffness N/μm (lbs/μ in)	72 (0.41)
Pitch Moment Max N-m (lbs-in)	3.1 (28.0)
Pitch Stiffness N-m/mil rad (lbs-in/mil rad)	11.0 (101)
Flowrate on Shaft NLPM (SCFH)	7.08 - 9.34 (15.00 - 19.80)
Air Gap (at maximum recommended load) microns	4
Bushing Inside Diameter - ID mm	+0.0051 , -0.0000 40
Bushing Outside Diameter - OD mm (in)	59.6 (2.346)
Bushing Length mm (in)	76 (3.000)
Bushing Weight grams (oz.)	259.40 (9.15)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD mm	40.0000
Recommended Shaft Tolerance (g6) μm	-9 , -25
Pressure Port Threads	M5 x 0.8
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
Common Shaft Materials	Anodized aluminum, stainless steel, nickel plated steel, ceramics, glass

### TEST DATA – 40mm ID Air Bushing

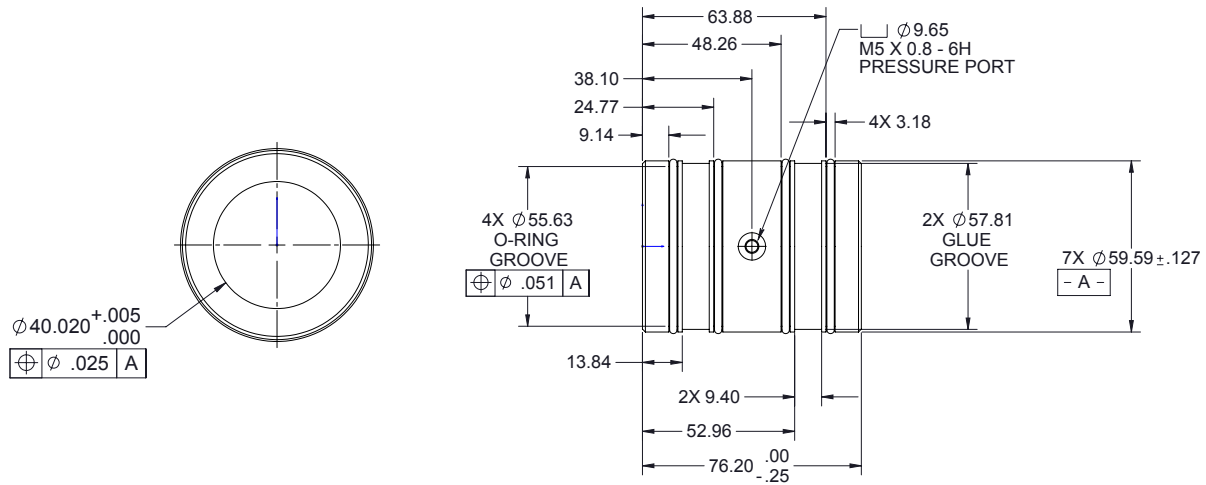


Lift/Load Data

# POROUS MEDIA™ AIR BUSHING

40mm ID

## ENGINEERING DRAWINGS AND MOUNTING DETAILS



**AIR FITTINGS**  
All M5 Thread Size Air Fittings



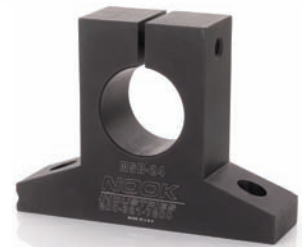
**O-RINGS**  
S90RG2-139 - 40mm



**SHAFT**  
S90S020-XXX - 40mm Diameter



**MOUNTING BLOCKS**  
S8038P02 - 40mm I.D.



**END MOUNTS**  
S8040E02 - 40mm Diameter

## COMPLETE NEW WAY METRIC AIR BUSHING PRODUCT



13mm ID



20mm ID



25mm ID



40mm ID



50mm ID



75mm ID

**NEWWAY®**  
air bearings

50 McDonald Blvd., Aston, PA 19014 USA • Phone: 610-494-6700 • Fax: 610-494-0911  
www.newwayairbearings.com • info@newwayairbearings.com

