

POROUS MEDIA™ AIR BUSHING

75mm Inside Diameter

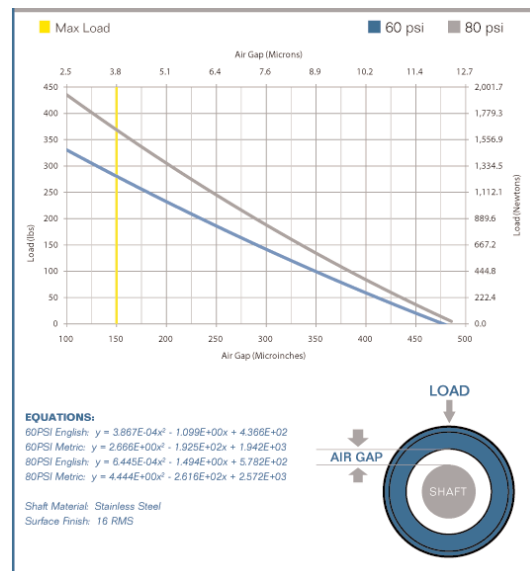


75mm ID Air Bushings

Largest of the New Way metric air bushing line, the 75mm ID size provides the scale necessary for more significant 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: 75mm #S307502	
Input Pressure	.41 MPa (60psi)
Radial Load Max N (lbs)	1245 (280)
Radial Stiffness N/μm (lbs/μ in)	159 (0.91)
Pitch Moment Max N-m (lbs-in)	7.1 (63.0)
Pitch Stiffness N-m/mil rad (lbs-in/mil rad)	31.0 (275)
Flowrate on Shaft NLPM (SCFH)	13.21 - 17.56 (28.00 - 37.20)
Air Gap (at maximum recommended load) microns	4
Bushing Inside Diameter - ID mm	+0.0051, -0.0000 75
Bushing Outside Diameter - OD mm (in)	99.5 (3.917)
Bushing Length mm (in)	89 (3.500)
Bushing Weight grams (oz.)	684.7 (24.15)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD mm	75.0000
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 (164.04)
Common Shaft Materials	Anodized aluminum, stainless steel, nickel plated steel, ceramics, glass

TEST DATA – 75mm ID Air Bushing

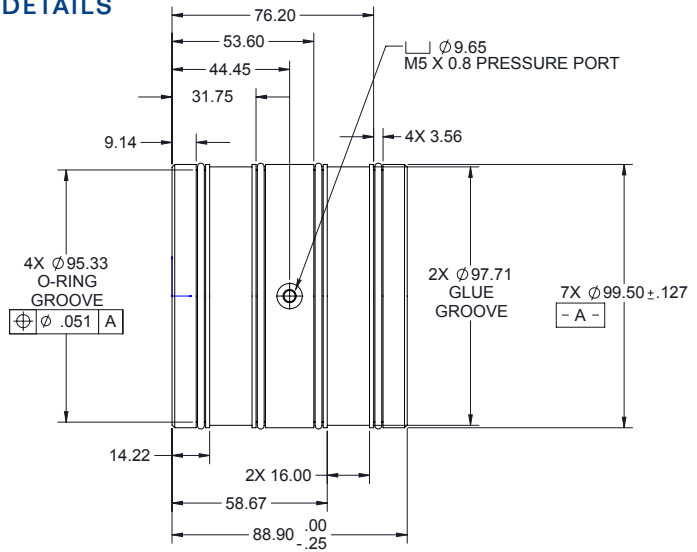
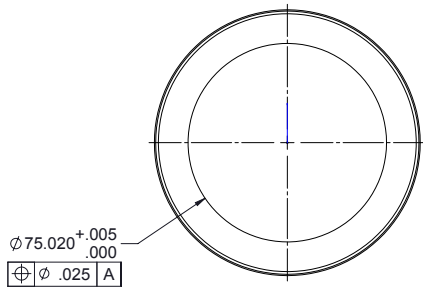


Lift/Load Data

POROUS MEDIA™ AIR BUSHING

75mm ID

ENGINEERING DRAWINGS AND MOUNTING DETAILS



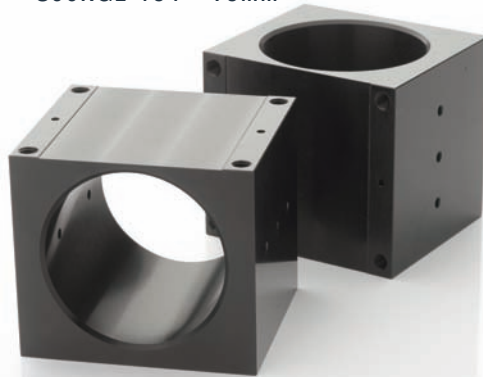
AIR FITTINGS
 All M5 Thread Size Air Fittings



O-RINGS
 S90RG2-154 - 75mm

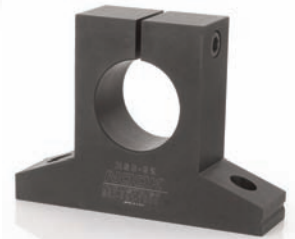


SHAFT
 S90S019-XXX - 75mm Diameter



MOUNTING BLOCKS
 S8075P02 - 75mm I.D.

END MOUNTS
 S8075E02 - 75mm 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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