

## POROUS MEDIA™ AIR BUSHING

25mm Inside Diameter



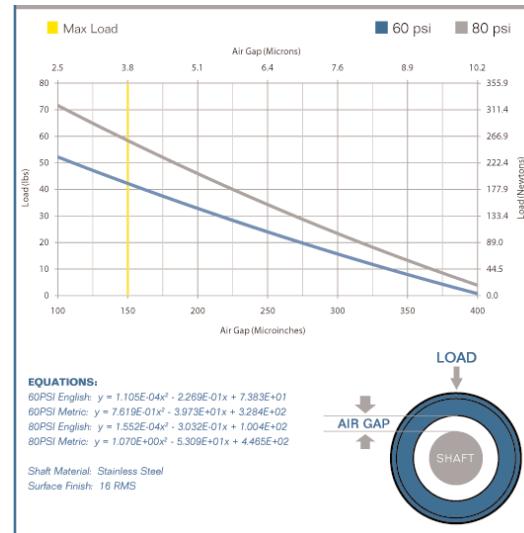
### SPECIFICATIONS: 25mm #S302502

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

### 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.

### TEST DATA – 25mm ID Air Bushing

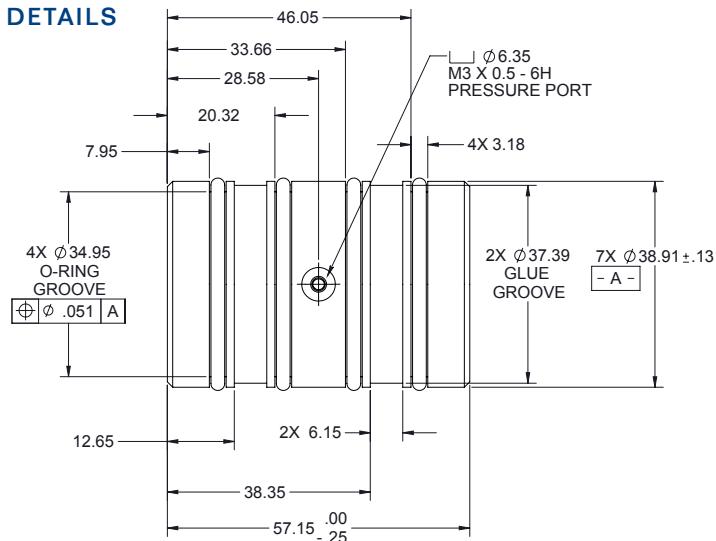
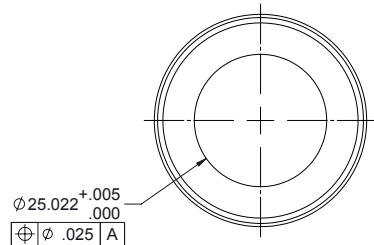


Lift/Load Data

# POROUS MEDIA™ AIR BUSHING

25mm ID

## ENGINEERING DRAWINGS AND MOUNTING DETAILS



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

**NEWWAY®**  
air bearings

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