

POROUS MEDIA™ AIR BUSHING

20mm Inside Diameter

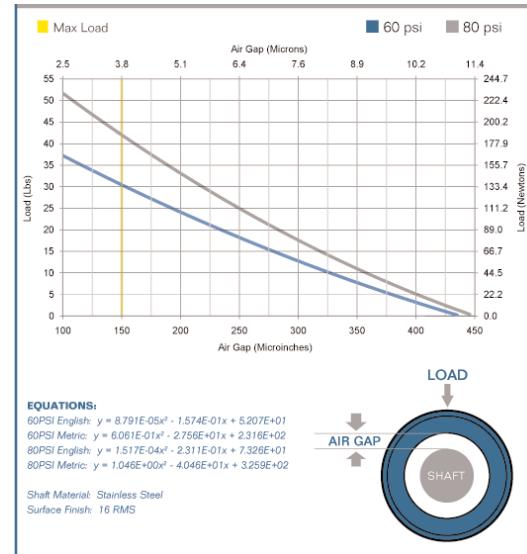


| SPECIFICATIONS: 20mm #S302001 | | |
|---|--|--------------------|
| Input Pressure | | .41 MPa (60psi) |
| Radial Load Max N (lbs) | 133 (30) | |
| Radial Stiffness N/μm (lbs/μ in) | 23 (0.13) | |
| Pitch Moment Max N-m (lbs-in) | 1.1 (10.0) | |
| Pitch Stiffness N-m/mil rad (lbs-in/mil rad) | 2.8 (25) | |
| Flowrate on Shaft NLPm (SCFH) | 3.54 - 4.81 (7.50 - 10.20) | |
| Air Gap (at maximum recommended load) microns | 4 | |
| Bushing Inside Diameter - ID mm | +0.0051, -0.0000 | 20 |
| Bushing Outside Diameter - OD mm (in) | | 31.8 (1.250) |
| Bushing Length mm (in) | | 51 (2.000) |
| Bushing Weight grams (oz.) | | 51.0 (1.80) |
| Housing Material/Finish | | Aluminum/Anodized |
| Porous Media Material | | Carbon |
| Recommended Shaft Outside Diameter - OD mm | | 20.0000 |
| Recommended Shaft Tolerance (g6) μm | | -7, -20 |
| 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 (f/sec) | | 50 (164.04) |
| Common Shaft Materials | Anodized aluminum, stainless steel, nickel plated steel, ceramics, glass | |

20mm ID Air Bushings

Second smallest of the New Way metric air bushing line, the 20mm 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 – 20mm ID Air Bushing

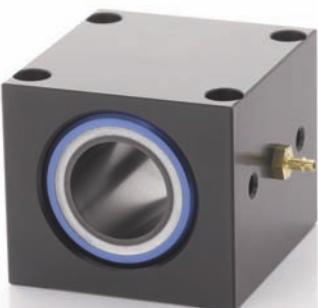
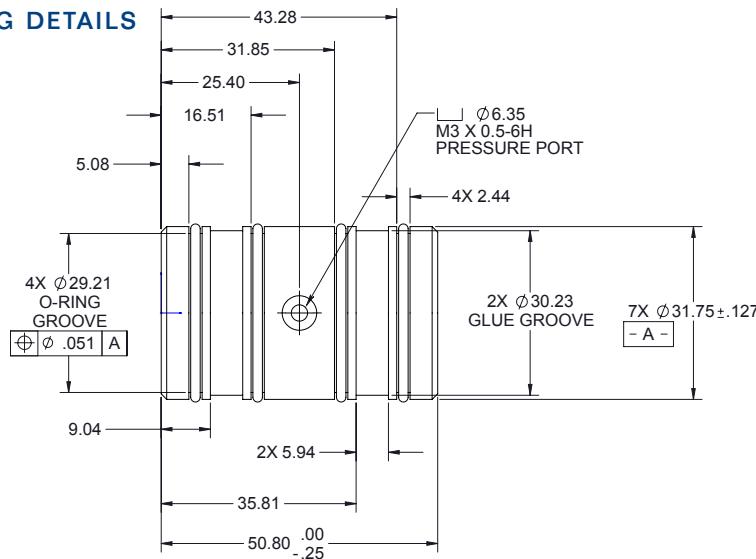
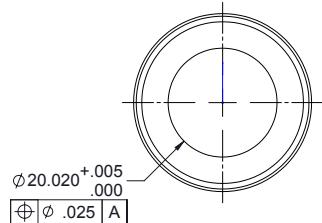


Lift/Load Data

POROUS MEDIA™ AIR BUSHING

20mm ID

ENGINEERING DRAWINGS AND MOUNTING DETAILS



COMPLETE NEW WAY METRIC AIR BUSHING PRODUCT LINE



NEWWAY®
air bearings

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