

AIR BUSHING—METRIC

50mm Inside Diameter

SPECIFICATIONS: 50mm #S305002	
Input Pressure	.41 MPa (60psi)
Radial Load Max n (lbs)	934 (210)
Radial Stiffness n/μm (lbs/μ in)	110 (0.63)
Pitch Moment Max n-m (lbs-in)	5.2 (46)
Pitch Stiffness n-m/mil rad (lbs-in/mil rad)	23 (202)
Flowrate on Shaft NLPM (SCFH)	9.0 - 11.9 (19.0 - 25.2)
Air Gap (at maximum recommended load)	4 microns
Bushing Inside Diameter - ID mm	50
Bushing Outside Diameter - OD mm (in)	74 (2.9)
Bushing Length mm (in)	89 (3.5)
Bushing Weight grams (oz.)	480 (17)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Recommended Shaft Outside Diameter - OD mm	50.0000
Recommended Shaft Tolerance	+0.0000mm -0.0076mm
Pressure Port Threads	M5 x 0.8
Viable Pressure Range	.414-.552MPa (60psi - 80psi)
Maximum Allowable Pressure Supply	.689 MPa (100psi)
Resolution	Infinite
Maximum Speed	50m/sec
Common Shaft Materials	Anodized aluminum, stainless steel, nickel plated steel, ceramics, glass