

SPECIFICATIONS: 75mm VPL Air Bearing #S207501

Input Pressure MPa (psi)	0.41 (60)
Input Vacuum in Hg	15
Ideal Load N (lbs)	110 (25)
Stiffness N/micron (lbs/u in) ¹	29 (0.165)
Maximum Hold-Down Force @ 68kPa N (lb)	180 (40.5)
Flow NLPM (SCFH) ¹	1.38 (2.92)
Fly Height ¹	5 microns
Bearing Size	75mm
Bearing Height mm (in)	22 (0.866)
Bearing Weight grams (oz.)	203 (0.464)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Bearing Face Surface Size - Carbon mm (in)	51.9mm ID x 73.1mm OD
Flatness mm (in)	0.001 (0.00004)
Mounting	Flexure
Pressure Port	M5
Vacuum Port	M5
Viable Pressure Range	0.414 - 0.552MPa (60 - 80psi)
Maximum Allowable Pressure Supply	.689 MPa (100psi)
Resolution ³	Infinite
Maximum Speed ⁴	50m/sec
Common Guide Surfaces	Granite, hard-coated aluminum, ceramics, glass, stainless steel, plated steel
Suggested Guide Surface Finish ⁵	16 RMS