

SPECIFICATIONS: 90mm VPL Air Bearing #S209001

Input Pressure MPa (psi)	0.41 (60)
Input Vacuum in Hg	15
Ideal Load N (lbs)	150 (34)
Stiffness N/micron (lbs/u in) ¹	43 (0.25)
Maximum Hold-Down Force @ 68kPa N (lb)	260 (58.5)
Flow NLPM (SCFH) ¹	1.48 (3.15)
Fly Height ¹	5 microns
Bearing Size	90mm
Bearing Height mm (in)	22 (0.866)
Bearing Weight grams (oz.)	306 (0.69)
Housing Material/Finish	Aluminum/Anodized
Porous Media Material	Carbon
Bearing Face Surface Size - Carbon mm (in)	62.4mm ID x 88.2mm 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