

**SPECIFICATIONS: 50mm #S105001**

<b>Input Pressure</b>	.41 MPa (60psi)
<b>Ideal Load N (lbs)</b>	333 (75)
<b>Stiffness N/micron (lbs/u in)<sup>1</sup></b>	58 (0.33)
<b>Flow NLPM (SCFH)<sup>1</sup></b>	1.1 (2.3)
<b>Fly Height<sup>1</sup></b>	5 microns
<b>Bearing Size</b>	50mm
<b>Bearing Height mm (in)</b>	13 (0.52)
<b>Bearing Weight grams (oz.)</b>	62 (2.1)
<b>Housing Material/Finish</b>	Aluminum/Anodized
<b>Porous Media Material</b>	Carbon
<b>Bearing Face Surface Size - Carbon mm (in)</b>	48 (1.89) $\phi$
<b>Flatness mm (in)</b>	0.0005 (0.00002)
<b>Ball Socket Size</b>	13mm
<b>Pressure Port Thread</b>	M5 X 0.8
<b>Viable Pressure Range</b>	.414-.552MPa (60psi - 80psi)
<b>Maximum Allowable Pressure Supply</b>	.689 MPa (100psi)
<b>Resolution<sup>3</sup></b>	Infinite
<b>Maximum Speed<sup>4</sup></b>	50m/sec
<b>Common Guide Surfaces</b>	Granite, hard-coated aluminum, ceramics, glass, stainless steel, plated steel
<b>Suggested Guide Surface Finish<sup>5</sup></b>	16 RMS