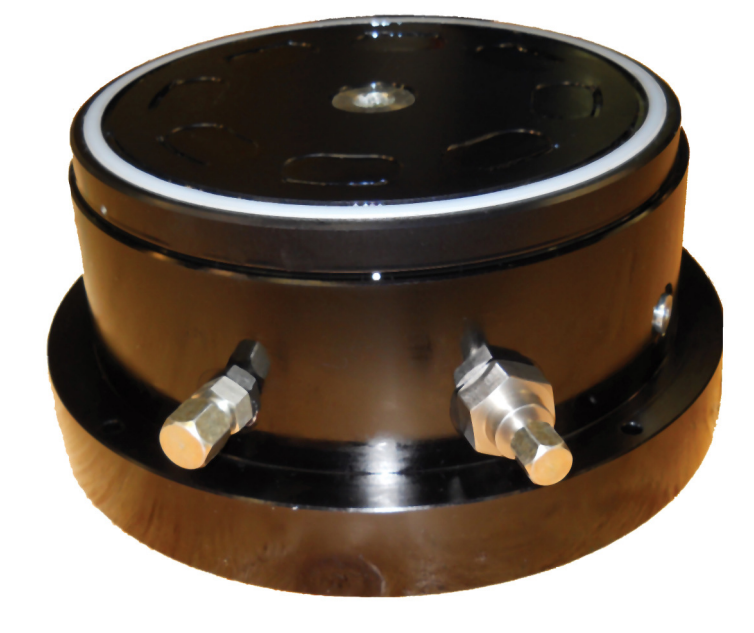


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Pad Bearings



Team hydrostatic pad bearings are used to guide and restrain large packages during vibration testing. These unique bearings form a hydrostatic oil film between a working surface on the package or fixture, and the “pad” of the pad bearing.

Team hydrostatic pad bearings are designed to support extremely high loads. When properly arranged, the moment capacity of a set of pad bearings can be higher than any other restraint method.

Team hydrostatic pad bearings are extremely stiff, providing the high level of restraint required to keep cross-axis motion to a minimum. *Team* hydrostatic pad bearings are self-aligning so the bearings can tolerate misalignment or structural deformation without damage. The fixture design requirements are therefore simplified and manufacturing tolerances eased.

Each *Team* hydrostatic pad bearing consists of two hydrostatic bearing surfaces. The primary surface is a flat pad which works against the moving surface of the fixture. The other is a spherical bearing that allows the flat pad to align with the fixture. When used in conjunction with a 3,000 psi oil supply, *Team* hydrostatic pad bearings are friction free and require almost no maintenance.

Standard pad bearings are shown in the chart on page 2. Specialty pad bearings with larger force ratings and greater angular rotations may be available depending upon your application requirements. Please contact your *Team* representative for discussion.

Specifications

Model	410-05	410-09	410-12	
Static Force Capacity	10,000 (44.5)	50,000 (222.4)	100,000 (444.8)	lbs. (kN)
Oil Flow at Preload*	0.5 (.49)	1.0 (.98)	1.2 (1.18)	c.i.s. (LPM)
Angular Rotation	+/- 1 degree (25mm)	+/- 1 degree (25mm)	+/- 1 degree (25mm)	+/- 1 degree (25mm)
Static Spring Rate**	1.9E+07 (3.5E+07)	9.6E+07 (1.7E+08)	1.9E+08 (3.5E+08)	lbs.in. (kN/m)
Dynamic Spring Rate**	3.8E+10 (6.9E+10)	3.5E+11 (3.8E+11)	3.8E+11 (6.9E+11)	lbs.in. (kN/m)
Shipping Weight	10 (4.5)	37 (16.8)	90 (40.8)	lbs. (kg)
Dimensions				
A	5.00 (127)	9.00 (228)	12.00 (305)	in. (mm)
B	5.95 (150)	10.80 (274)	14.00 (355)	in. (mm)
C	2.80 (71)	5.00 (127)	6.50 (165)	in. (mm)
D	.220 (5.6)	.281 (14.8)	.438 (11.1)	in. (mm)
E	5.60 (142)	10.20 (259)	13.20 (335)	in. (mm)

* Assumes 3,000 psi Source: 300 Viscosity

** Theoretical

