

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. Fixture design requirements are therefore simplified and manufacturing tolerances eased.



Features

- Two Hydrostatic Bearing Surfaces Each
- High Dynamic Load Support
- Self-Aligning
- High Moment Constraint*
- Friction Free and Maintenance Free**

Applications

- Slip Tables
- Hydrostatic bearings
- Hydra Balls
- Spherical Couplings
- Pad Bearings

**When used in pairs and properly aligned*

***When oil is maintained to ISO 15-13-10 Standard*

Specifications

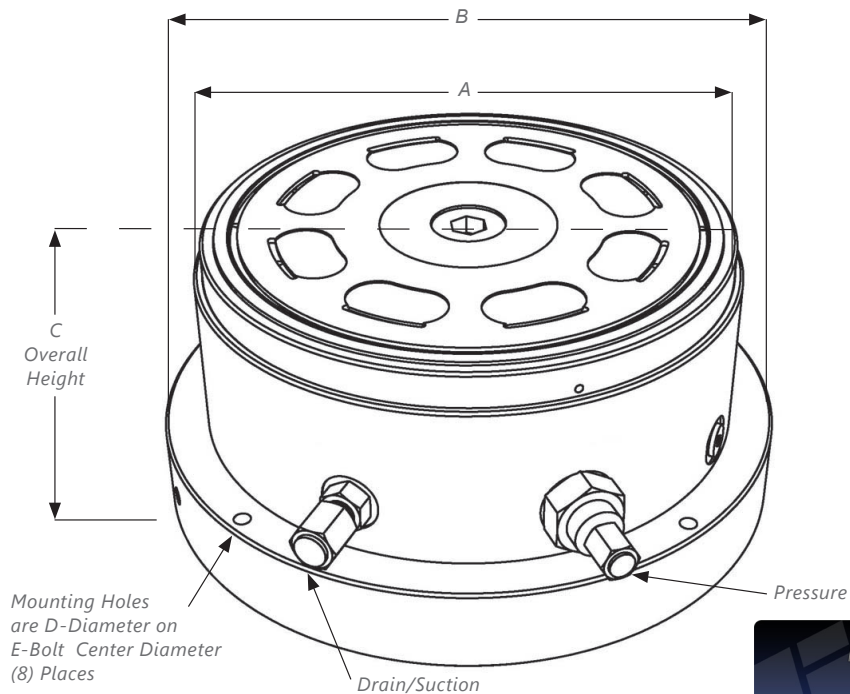
Model	410-05	410-09	410-12
Static Force Capacity lbs.(kN)	10,000 (44.5)	50,000 (222.4)	100,000 (444.8)
Oil Flow at Preload* gpm (LPM)	0.13 (0.49)	0.28 (1.05)	0.50 (1.89)
Angular Rotation	+/- 1 degree	+/- 1 degree	+/- 1 degree
Static Spring Rate** lbs/in. (kN/m)	3x10 ⁶ (0.53x10 ⁶)	30x10 ⁶ (5.3x10 ⁶)	42x10 ⁶ (7.4x10 ⁶)
Dynamic Spring Rate** lbs/in. (kN/m)	5x10 ⁶ (0.88x10 ⁶)	90x10 ⁶ (16x10 ⁶)	126x10 ⁶ (22x10 ⁶)
Shipping Weight lbs. (kg)	10 (4.5)	37 (16.8)	90 (40.8)

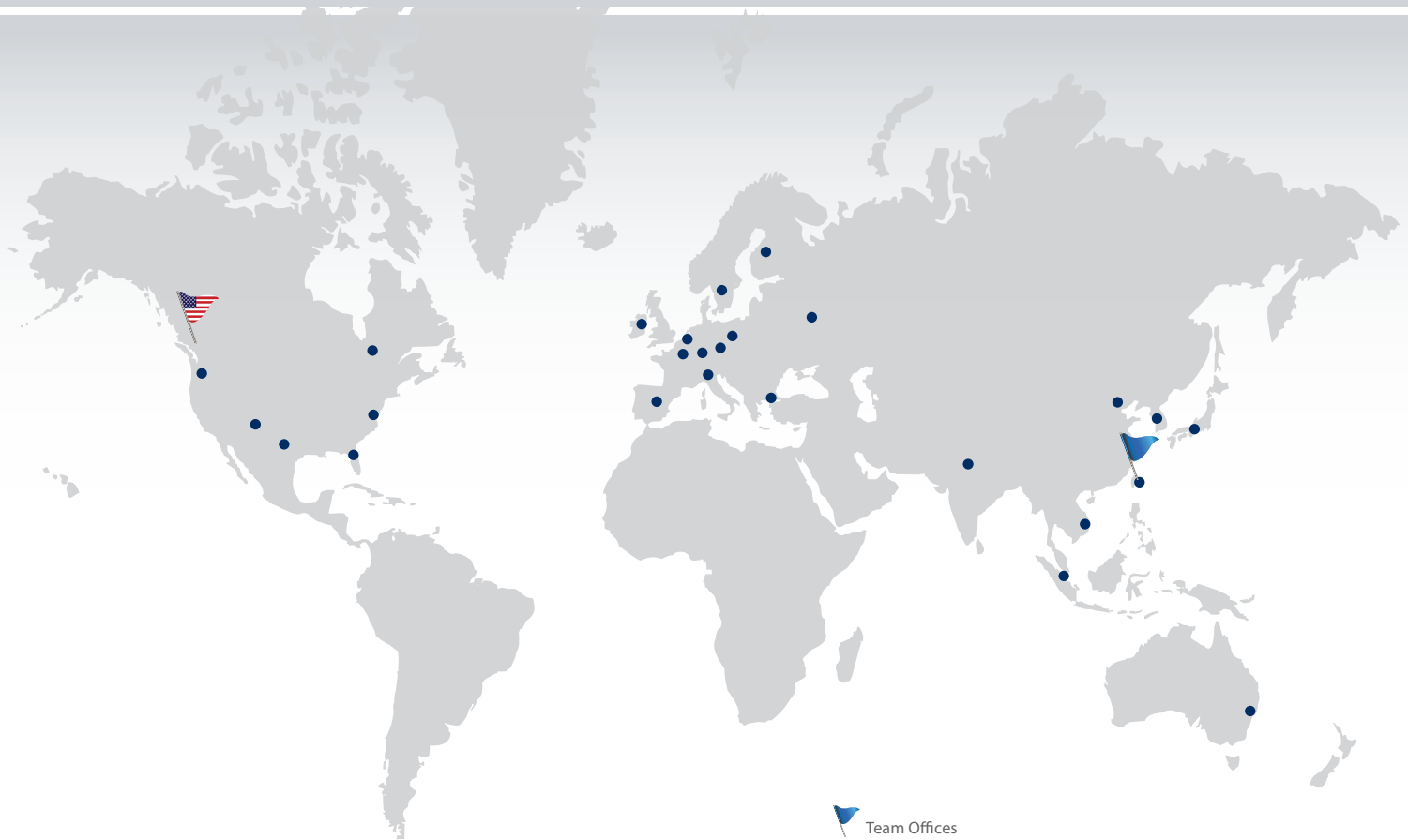
Dimensions in. (mm)

A	5.0 (127)	9.0 (228)	12.0 (305)
B	5.9 (150)	10.8 (274)	14.0 (355)
C	2.8 (71)	5.0 (127)	6.5 (165)
D	0.20 (5.6)	0.28 (14.8)	0.44 (11.2)
E	5.6 (142)	10.2 (259)	13.2 (335)

* Assumes 3,000 psi (205 bar) Source: 300 Viscosity

** Theoretical





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