

Engineered  
vibration testing  
solutions for  
improved  
product quality.

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# HydraBall



The *Team* HydraBall provides a zero backlash, zero friction, direct load path coupling. A low noise, cost effective replacement to conventional rod ends.

The HydraBall is a hydrostatic bearing, oil supported ball joint with non-contacting surfaces. Using the HydraBall instead of rod ends saves time and improves test results, because no greasing or adjustment is required.

HydraBall offers a very stiff connection in a smaller package and eliminates pin shear associated with other clevis pin assemblies. The *Team* Hydraball requires only 0.2 gpm of oil at 3000 psi. There are no high-pressure seals to wear out or cause friction to compromise your test results.

## Features:

- Direct Load Path
- Eliminates Backlash
- Eliminates Friction
- Easy to Install
- Offers Flexibility on Installation
- Low Maintenance, Long Life Product

## Applications:

- Multi-axis Test Systems
- Custom Designed Test Rigs
- Replaces Rod End Bearings

# Specifications

Dynamic Load Capacity

± 3,500 lbs.

± 16,000 lbs.

± 32,000 lbs.

Static Load Capacity

2,000 lbs.

6,000 lbs.

12,000 lbs.

Angular Movement

± 15 degrees

± 20 degrees

± 20 degrees

Total Weight

10 lbs

38 lbs

155 lbs

Oil Consumption

0.15 g/m @ 3,000 psi

0.2 g/min @ 3,000 psi

0.3 g/min @ 3,000 psi

Dimensions

A 4.75 in.

5.8 in.

8.7 in.

B 3.0 in.

4.0 in.

6.0 in.

C 7.0 in.

9.0 in.

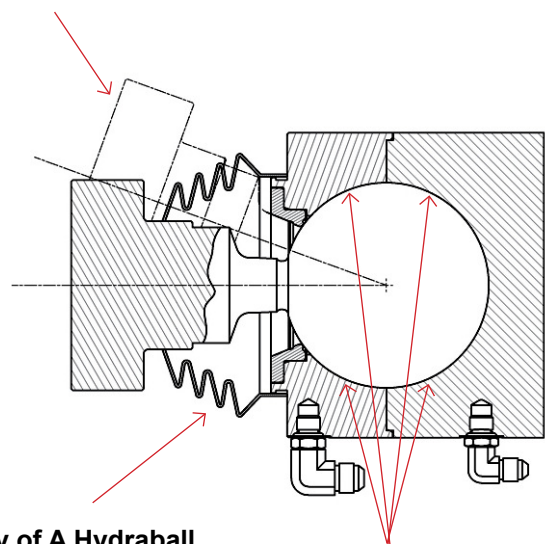
13.5 in.

\*ISO VG68 @ 100 F.

+/- 20 degrees of rotation in all directions

Model HB 40-20

Model HB 60-20



## Anatomy of A Hydraball

Low-pressure seals, which can be serviced without disassembling the Hydraball. A protective rubber boot and negative drain pressure from your system HCM virtually eliminates oil leaks.

Hydrostatic bearings support the ball in all directions and offer zero backlash transmission of force.

