

Mission® Spherical Valves

A National Oilwell Varco® Innovation That Sets New Standards

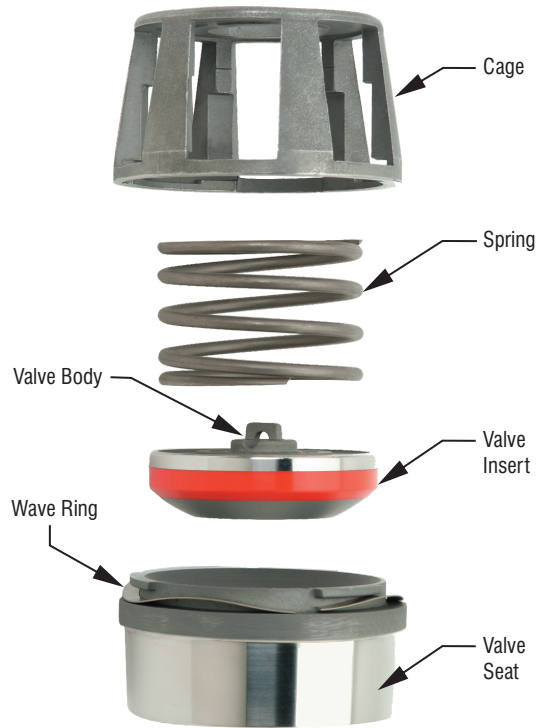
The unique design of NOV® spherical valves utilizes the positive characteristics of a traditional ball valve. In addition, its unique construction provides more contact area without all of the weight usually associated with a ball valve.

NOV spherical valves are available in two different designs. The Standard Duty Wave Ring design is used in general and corrosive applications. Severe Duty designs are used in low concentration slurry and solid-laden liquid applications.

The patented design of NOV spherical valves provide significant features, and optimizes plunger/piston pump performance.

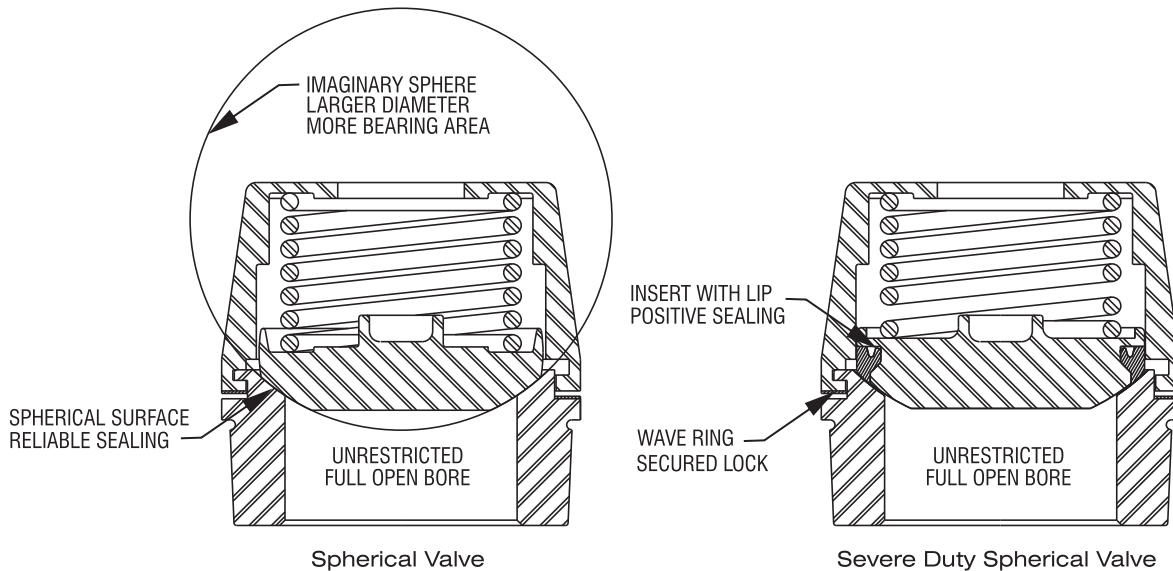
All materials in all spherical valve assemblies meet NACE MR0175 Standards.

Contact your NOV representative or authorized distributor for spherical valve availability on other makes of pumps.



Unique design features of the NOV Spherical Valve

Mission® Spherical Valves



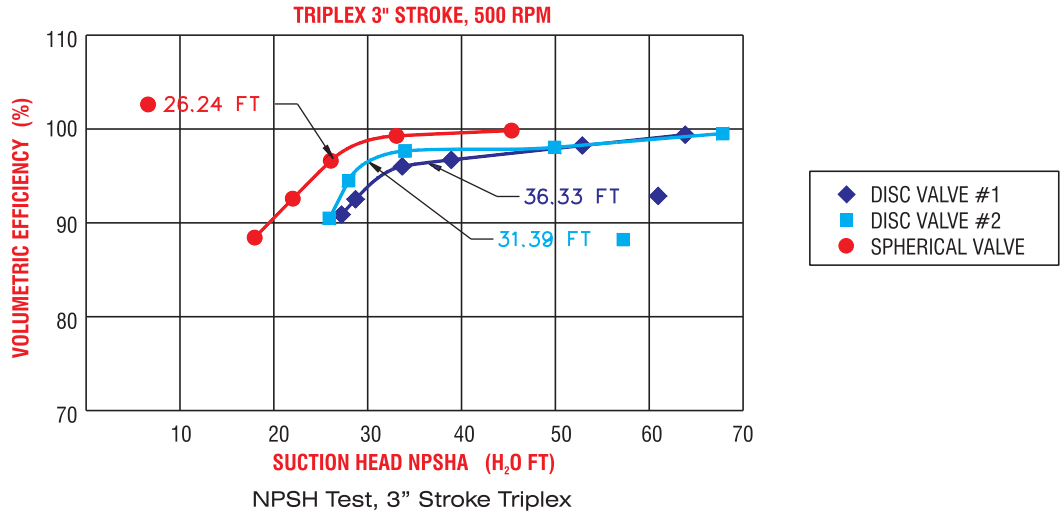
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Mission[®] Spherical Valves

**28%
NPSHR
Improvement!**



Spherical Valve family



Spherical Valve assembly complete

DESIGN BENEFITS:

The highly-engineered valve design with spherical valve body and seal surfaces performs the following:

- Produces more flow through area
- Eliminates obstructed flow
- Reduces NPSH requirement
- Produces high volumetric efficiency
- Extends mean time between failures
- Reduces maintenance and operating costs

FEATURES AND ADDITIONAL BENEFITS:

Spherical Surface

- Reliable sealing
- More load bearing area

Full Open Bore

- Low pressure loss
- Superior flow characteristics
- Volumetric efficiency
- Reduced NPSH
- Eliminates cavitation

Quick Twist Lock Spring Retainer

- Easy installation and maintenance
- No threads to corrode and fuse

NACE Compliant

- Broadens applications

Severe-Duty Valve Insert Lip

- Abrasive fluid pumping

Snap-On Insert

- Quick replacement

Wave Ring

- Protects assembly integrity

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