

# High Pressure 20K Valves

Hi-Pro Ball Valve & H-Series Needle Valve

aerospace  
climate control  
electromechanical  
filtration  
fluid & gas handling  
hydraulics  
pneumatics  
process control  
sealing & shielding



ENGINEERING YOUR SUCCESS.

# Together, we are Innovators

Hydraulic systems for wellhead control, emergency shut down, chemical injection, pumping packages, gas booster systems, test equipment - the topsides of today's offshore platforms need new solutions to meet increasingly demanding operating environments.

These two 20,000 PSI (1,379 bar) ball and needle instrumentation valves deliver the isolation and control functionality that high pressure fluid applications demand.

The valves are fabricated from 316 stainless steel, and offered in NACE (corrosion) compliant and HCT (heat code traceable) versions. Available with 1/4, 3/8 or 9/16 inch, or 6, 8, 10 and 12 mm tube connections, the 6 mm bore sizes provide a maximum flow rate (Cv) of 0.66 for the needle version, and 1.56 for the ball valve.



## The Smarter solution

### Ball valve's smart design

The 20K Hi-Pro Ball Valve works on the floating ball principle, and offers 100% bubble tight operation. Rather than taking the conventional three-piece approach (body and two inserts) we've used a novel seat design that allows us to manufacture the ball valve from just two main pieces - the main body and one insert. The result? A potential leak path eliminated.

The ball valve is fully bidirectional and actuated by a 90 degree turn for fast on/off action, with stops for positive user feedback. An integral gland adjuster is secured by means of Parker's proprietary Tru-Loc mechanism.

The ball valve uses PEEK (polyetherketone) seat material to enable safe operation from -20 to +200°C (-4 to +392°F).

### Choice of end connections

We're offering the valves with a choice of two styles of end connection - conventional cone and thread fittings, or our innovative high-pressure Phastite connectors. With Phastite, a seal is made by simply pushing a collar along the tube using a handheld hydraulic tool. As the collar moves it forces profiles on the internal sleeve to bite, providing a high-pressure, leak-tight seal.

### Needle valve

The 20K H-Series Needle Valve has a multi-turn action which provides a fine flow control mechanism, and it also uses our Tru-Loc mechanism to secure the gland adjuster. The valve's metal seat also allows operation over a wide temperature range, from -54 to +200°C (-65 to +392°F).

# Helping you work Faster and Safer

## Phastite ends bring benefits

The unique sealing action of Phastite tubing connections allows tubing joints to be made in seconds — saving a great deal of time compared with alternative connections. Phastite tube ends allow material cost and weight savings to be made as well, as there's no need for more expensive tubing with extra thickness to accommodate the thread.

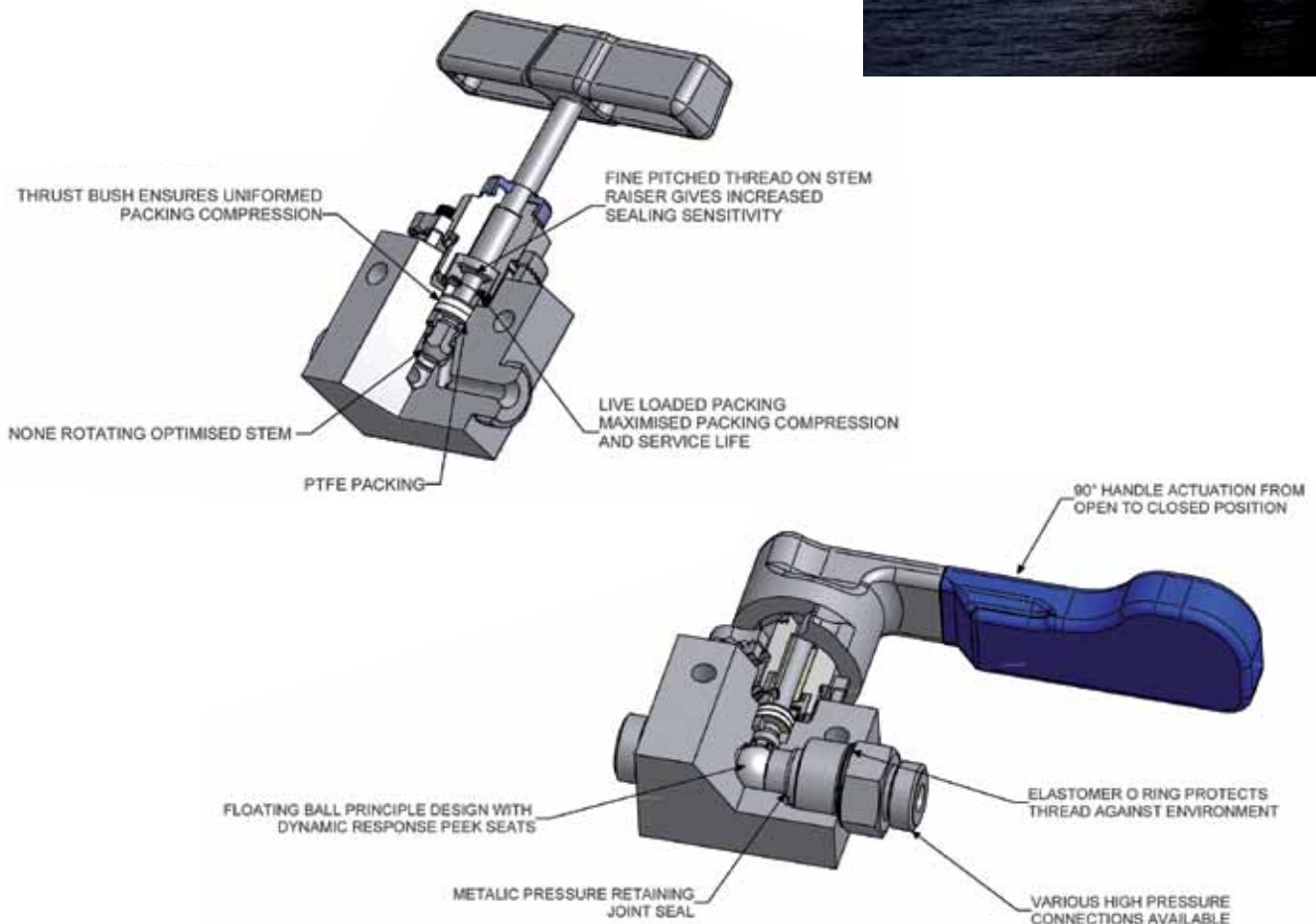
Phastite end connections also bring high inherent vibration resistance to demanding environments. Therefore, there's no need for additional anti-vibration accessories.

## Simpler installation

The ball valve's two piece design minimises the risk of damage from over-tightening when fitting the tube connectors.

## Rapid delivery and customisation

We've established a computerised manufacturing and assembly process for the new valves to ensure rapid delivery of standard versions of the valves - and also to accommodate custom versions. Variations including exotic alloy body materials, or special end connections will be available to order in the future.



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