



OIL STATES PIPER VALVE

# Offshore Valve Products

## TOPSIDE, SUBSEA & DRILLING VALVE SOLUTIONS

### Series PB Compact Manifold Ball Valves

Series PB ball valves are engineered for optimum-flow performance under diverse pressure and flow conditions and offer the economy of field reliability.

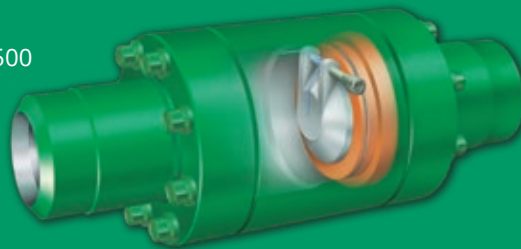
- 1" - 12", ANSI 1500 thru 2500
- 1" - 8", API 10000
- 1" - 2", API 15000
- Throttle ball valves are available



### Series PB Compact Manifold Check Valves

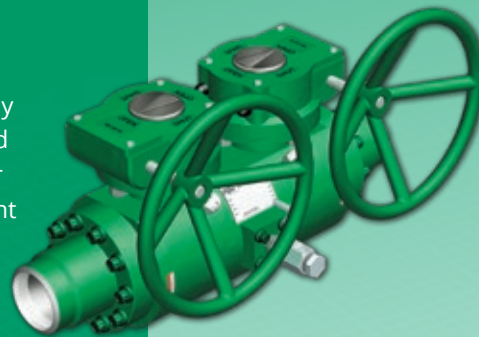
Series PB check valves are engineered and manufactured for compact size, optimum flow performance, field repairability and system-wide positive back-flow protection.

- 1" - 12", ANSI 1500 thru 2500
- 1" - 8", API 10000
- 1" - 2", API 15000



### Series PB Double Ball Valves

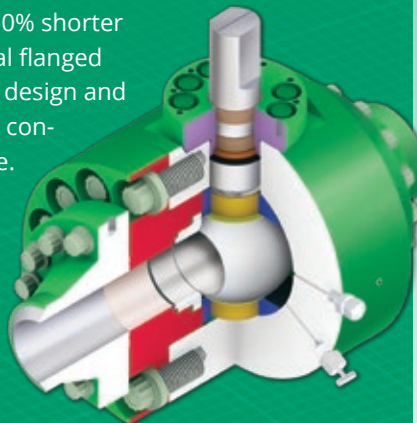
- 1" - 12", ANSI 1500 thru 2500
- 1" - 8", API 10000
- 1" - 2", API 15000
- Variety of materials available to suit your specific application.
- Two valves in one body requiring only one end connection kit, further saves space and weight



### Series MST Compact Metal Seated Ball Valves

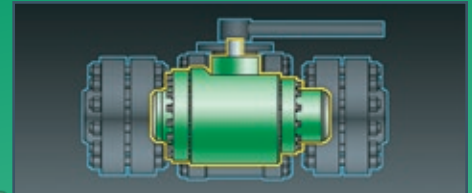
Series MST ball valves compact design, in both subsea and topside configurations offers up to 50% shorter end-to-end dimensions than conventional flanged end ball valves. The modular three-piece design and bolted retainer offer a wide range of end connection for emergency end-of-line service.

- 1" - 12", ANSI 2500 thru API 15000
- Double block & bleed configurations available, along with integral ball/check valve combinations
- 8 separate bearing surfaces inside the MST help reduce friction, resulting in lower break and operating torques



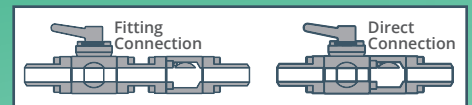
### SAVE WEIGHT, SPACE & MONEY

Comparison between a conventional 6" ANSI 1500 FP trunnion ball valve and a Piper Series PB 6" ANSI 1500 valve.



### BALL/CHECK VALVE COMBINATION ASSEMBLIES

For even greater space and weight savings, smaller size check valves can be bolted directly to ball valve body shown below.



### SEVERE SERVICE VALVES

Series MST ball valves can perform in the most challenging applications:

- Upstream production manifolds
- FPSO turret manifolds
- Abrasive flow applications including choke & kill manifolds, well testing, frac valves, standpipe manifolds, SURF applications, PLETs & PLEMs and more





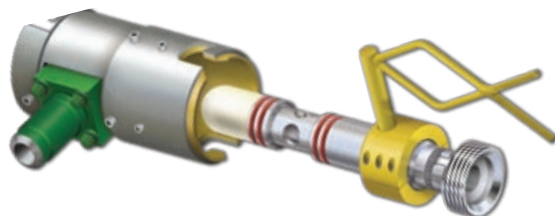
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PIPER OPTIMUM-FLOW TECHNOLOGY

## Series PB Subsea Valves

- 1" - 12", ANSI 1500 thru 2500
- 1" - 8", API 10000
- 1" - 2", API 1500
- ROV-operable and actuated valves available
- Double ball valves and double stem ball valves available



## High Flow Hot Stab Assemblies

- 1" - 4", ANSI 2500, API 10000 & API 15000
- Receptacle available in single and double sided configurations
- Swivel flange connection provides flexibility in outlet type

## Series DC Compact Drilling Diverter Valves

Series DC drilling diverter ball valves are specifically designed to provide superior performance and extended life in corrosive and abrasive drilling fluid service. Oil States Piper's compact design allows easier handling and installation in the tight areas found in rig substructures.

- Purpose built for drilling diverter applications
- 10" - 18", ANSI Class 300, 600 and 900
- 20", ANSI Class 300
- Internal parts are completely interchangeable between ANSI 300, 600, and 900 series valves of the same bore size
- Wide range of materials available to suit a variety of application requirements, including H<sub>2</sub>S service
- Actuator packages available with a variety of position indicator options



### SERIES DC APPLICATIONS

Series DC ball valves are used in:

- Diverter flow lines (NPS 8" thru 18")
- Fill-up & trip tank applications (NPS 2" thru 12")
- Motion compensation & riser tensioning control systems (NPS 1" thru 10")
- Riser booster line valves (NPS 2" thru 8") in ANSI Class 300, 600, 900, 1500 & 2500 as well as API 5000 & API 10000 pressure classes

## OIL STATES INDUSTRIES

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