



OIL STATES PIPER VALVE

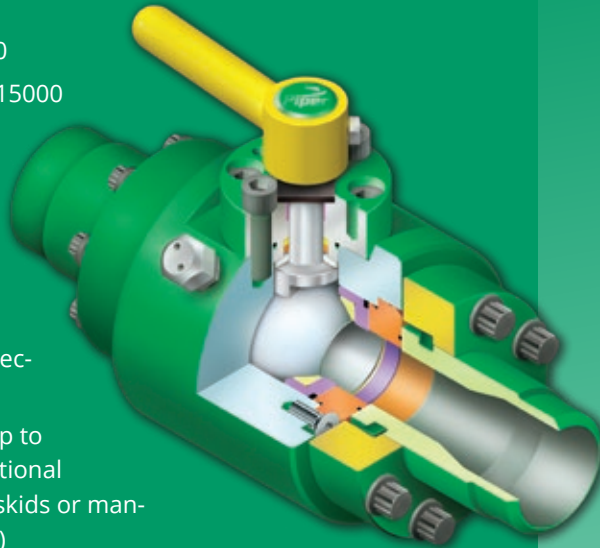
Onshore Valve Products

SMARTER COMPACT VALVE SOLUTIONS

Series PB Compact Manifold Ball Valves

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

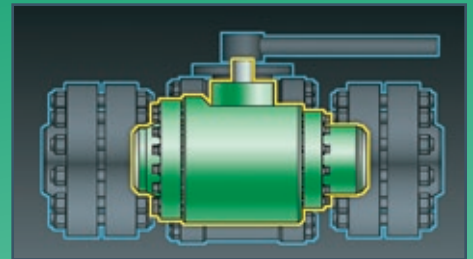
- 1" - 12", ANSI 1500 thru 2500
- 1" - 8", API 10000, 1" - 2" API 15000
- NACE MRO175 compliance available
- Fire tested in compliance with API Specification 6FA, 3rd Edition
- Modular three-piece design provides multiple end connection options
- Compact design occupies up to 40% less space than conventional flanged-end ball valves for skids or manifolds (See illustration, right)
- Throttle ball valves and double ball valves are available



SAVE WEIGHT, SPACE & MONEY

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

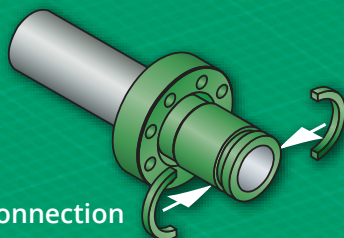
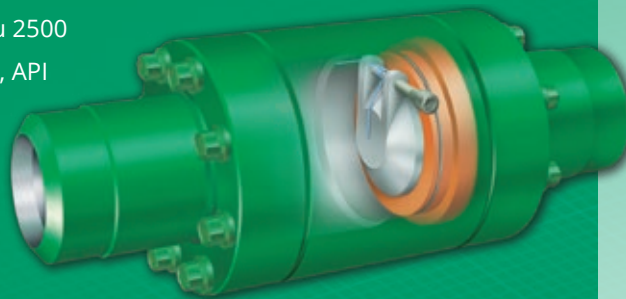
- Total weight is 70% less
- Total length is 43% less
- Relative height to bonnet is 28% less
- Minimal line spread required



Series PB Compact Manifold Check Valves

Piper Series PB check valves are engineered and manufactured for compact size and optimum-flow capabilities. Economical and field repairable, the Series PB check valve is a true performer, offering system-wide positive back-flow protection.

- 1" - 12", ANSI 1500 thru 2500
- 1" - 8", API 10000, 1" - 2", API 15000
- Fire tested in compliance with API Specification 6FD, 1st Edition
- Flapper type disc design provides for a full open flow path and is fully piggable
- PTFE flapper seal promotes positive sealing and extended service life
- Compact BFW Connections provide fast, easy installation or removal and extensive end connection options

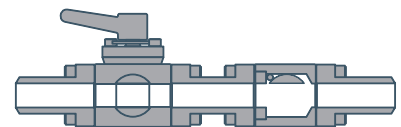


BFW Nipple & Swivel Flange Connection

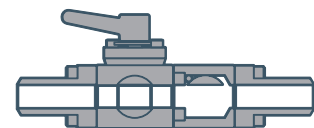
BALL/CHECK VALVE COMBINATION ASSEMBLIES

Piper Series PB check valves offer the benefit of more connection options including Tube Connections and Direct Bolted Connections. For even greater space and weight savings, smaller size check valves can be bolted directly to ball valve body as shown below.

Fitting Connection



Direct Connection





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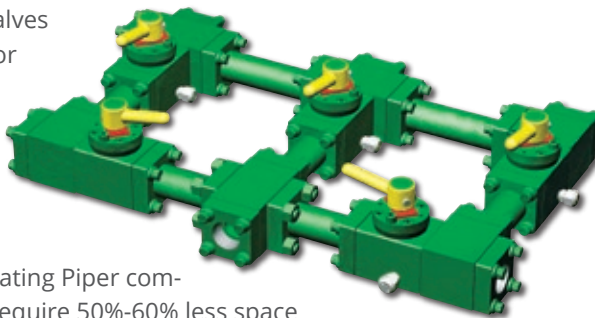
Onshore Valve Products

PIPER OPTIMUM-FLOW TECHNOLOGY

Series PB Manifold Systems

Our team of designers, engineers and customer service representatives can assist you with your manifold projects. Piper carries a complete line of production and injection manifold systems for on and offshore applications. Piper also offers components for weld-free manifold construction. Our building block design allows your manifold to be custom designed to fit almost any application, while minimizing space required. Contact your Piper representative to learn more.

- Piper compact manifold valves are specifically designed for maximum life in critical service
- Smallest line spread distance for quick and easy valve removal
- Manifold designs incorporating Piper compact manifold ball valves require 50%-60% less space than manifolds using traditional API 6D ball valves



SYSTEM COMPONENTS

- Ball and Check Valves
- Three-Way Ball Valves
- Throttle Ball Valves
- Tube Connectors
- 3-Way, 4-Way and 5-Way Blocks



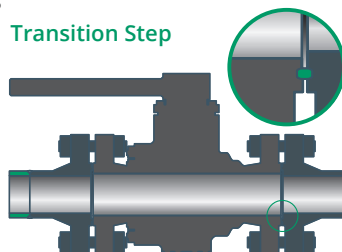
Series LC Lightweight Compact Manifold Ball Valves

Piper Series LC compact ball valves provide superior flow characteristics in the most compact valve available, specifically for installations where size and weight are critical. The LC features Piper's Optimum-Flow Technology, delivering superior performance while minimizing system friction pressure loss.

- 3", 4" and 6", ANSI Class 600 and 900
- Occupies up to 58% less space than conventional flanged end ball valves
- NACE MR0175 compliance available
- Tested Firesafe to API 6FA
- Bore sizes correspond to the inside diameter of Schedule 80 Grade B pipe, eliminating transition areas



Transition Step



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