

# Jamesbury® High-Performance Ball Valves



Proven  
reliability  
lowers your  
costs.



# High-performance ball valves.

**Innovative designs = long, trouble-free life.**

When it comes to ball valves, we know your most important consideration is reliability. The longer a valve performs as designed and without problems, the better. That's why your choice should be *Jamesbury* ball valves.

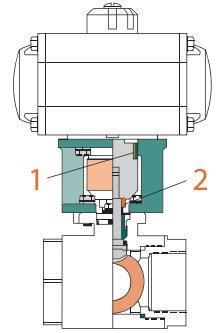
By focusing on the all-important areas of seat design, polymer material research and sealing technologies – we were able to engineer and deliver next generation ball valve performance. Solutions that offer you vastly improved stem sealing and cycle life. In fact, depending on the application, the cycle life of these new valves can be as much as 100 times greater than competitive products.

**Redefining the standard.**



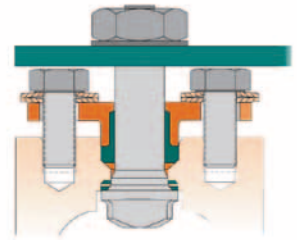
## Simplified modular design

We made all of the internal and trim parts the same. The only differences are the bodies, caps and inserts. This makes it easier and more cost-effective to change parts during repairs. This simplifies actuation as well with fewer linkages.



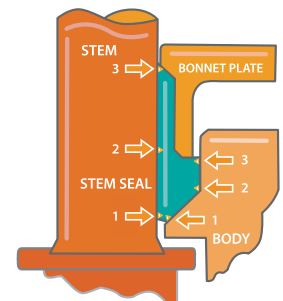
## Live-loaded stem seal

Our valves are equipped with a live-loaded stem seal that helps improve cycle life and reduce costs. For example, the stem bearings are designed to manage trust loads efficiently, eliminating metal contact and failure.



## Improved sealing

Our new, patented stem seal design is engineered with three zones of contact to promote tighter sealing. The stem is fully guided so leak paths do not form during operation.



# A variety of options to suit your needs.

## Series 7000 & 9000 Ball Valves



The *Jamesbury* polymeric seated flanged ball valves provide positive bi-directional shutoff for an extensive range of applications. They are offered in standard and full port to meet ASME Class 150 and 300 with a wide selection of body and seat materials. Products are suitable for both isolation and control. Proven sealing technologies provide long lasting shutoff. Fire-tested to API 607 and ISO 10497.

Series	Sizes	Port	Pressure Classes	Max Temperature	Body/Trim Materials	Bulletin
7000	1/2" – 20" (15 – 500DN)	Std.	150 300	500 °F (260 °C)	Carbon Steel 316SS Alloy 20	B107-1
9000	1/2" – 24" (15 – 600DN)	Full			Monel® Hastelloy® C	B107-2

## Series 4000 Ball Valves



The *Jamesbury* 4000 Series ball valves offer the three most desirable attributes of high quality valves: exceptional performance, great versatility and economical cost. They are a three-piece construction available in standard and full bore. Construction options include threaded, socket-weld and butt-weld end connections with a wide selection of body and seat materials. The 4000 Series is CWP-rated at cold working pressures of up to 2500 psi (172 bar) or ASME Class 800 rated up to 1973 psi (136 bar).

Sizes	Port	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/2" – 1" (15 – 25DN)	Std.	2500 psi (172 bar)	500 °F (260 °C)	Carbon Steel 316SS Monel® Hastelloy® C	B105-1
1 1/4" – 2" (32 – 50DN)		2250 psi (155 bar)			
2 1/2" (65DN)		1000 psi (69 bar)			
1/2" – 3/4" (15 – 20DN)	Full	2500 psi (172 bar)			
1" – 1 1/2" (25 – 40DN)		2250 psi (155 bar)			
2" (50DN)		1000 psi (69 bar)			

## Eliminator Ball Valves



The Eliminator ball valve brings you the performance and design features you have been looking for – all in a single low cost valve. The design incorporates standard ports, fire-tested performance, rugged actuator support, and flexible-lip seats to provide application versatility that goes beyond other valves. It is either CWP-rated with cold working pressures of up to 2000 psi (138 bar) or ANSI Class 600 rated up to 1480 psi (102 bar).

Sizes	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/4" – 2" (8 – 50DN) CWP	2000 psi (138 bar)	500 °F (260 °C)	Carbon Steel 316SS Monel® Hastelloy® C	B101-2
1/4" – 2" (8 – 50DN) ANSI-600	1480 psi (102 bar)			

## Clincher® Series 2000 Ball Valves



Series 2000 ball valves are rugged high performance ball valves designed to handle an extremely wide variety of liquids, gases, and slurries. They are available in brass, carbon, and stainless steel.

Sizes	Port	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/2" – 2 1/2" (15 – 65DN)	Std.	800 psi (55 bar)	500 °F (260 °C)	Carbon Steel 316SS Brass	B102-1

## Series 3000 Ball Valves



*Jamesbury* Series 3000 ball valves are perfect for applications where positive, long-lasting, cost effective shutoff is required. Ideal for vent, by-pass, sampling, and gauge isolation, these valves provide cost-effective shutoff in a wide range of process industry, manufacturing, commercial and OEM services. Seating options permit the handling of many commonly encountered abrasives, steam and applications with wide temperature swings.

Sizes	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/4" – 2" (8 – 50DN)	2000 psi (138 bar)	500 °F (260 °C)	Carbon Steel 316SS	B104-1

## A-Style Ball Valves



The threaded end A-Style ball valve design incorporates standard ports, fire tested performance, actuator mounting pad, and flexible lip seats for extended cycle life. The A-Style is similar to the Eliminator. The A-Style Model D maintains the same end-to-end dimension as the earlier model A-Style and can be used as a direct replacement.

Sizes	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/4" – 2" (8 – 50DN)	2000 psi (138 bar)	500 °F (260 °C)	Carbon Steel 316SS Monel® Hastelloy® C	B100-1

## Series 100 Ball Valves



The *Jamesbury Value-Line*® Series 100 general purpose ball valves feature bubble tight shut-off for industrial and utility services. It is ideal for applications where non-relieving seats are acceptable.

Sizes	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/4" – 2" (8 – 50DN)	2000 psi (138 bar)	450 °F (232 °C)	Carbon Steel 316SS	B103-5

## Series 5H Ball Valves



The *Jamesbury Value-Line* Series 5H ball valve is a threaded end valve designed specifically for handling a wide variety of fluids and gases at higher pressures. It provides long lasting tight shutoff at pressures to 4500 psi (310 bar) in sized 1/4"-1" (8-25DN) and 3000 psi (206 bar) in sizes 1-1/4"-2" (32-50DN).

Sizes	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/4" – 1" (8 – 25DN)	4500 psi (310 bar)	230 °F (110 °C)	Carbon Steel 316SS	B106-2
1 1/4" – 2" (32 – 50DN)	3000 psi (206 bar)			

## Series 3 Ball Valves



The *Jamesbury Value-Line* Series 3 three piece ball valve offers exceptional economy and proven performance. These valves are available in either threaded or socket weld configuration. The Series 3 provides high flow, while minimizing pressure drop.

Sizes	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/2" – 2" (15 – 50DN)	1000 psi (69 bar)	500 °F (260 °C)	Carbon Steel 316SS	B105-4

## Series 6F Ball Valves



The *Jamesbury Value-Line* Series 6F ball valve offers exceptional economy and proven performance. The Series 6F ball valve offers a 2-piece, full port, threaded configuration and 1000 psi pressure rating to make it an ideal choice for a majority of applications where tight shutoff is a requirement.

Sizes	Max Pressure	Max Temperature	Body/Trim Materials	Bulletin
1/2" – 2" (15 – 50DN)	1000 psi (69 bar)	500 °F (260 °C)	Carbon Steel 316SS	B101-3
3" (80DN)	800 psi (55 bar)			

### Other options are available for the following services or categories:

- Fire-Tite® (API 607 and BS 6755 qualified)
- Emissions control (utilizing Emission-Pak® or live-loaded packing assembly)
- Steam service
- Chlorine service
- Oxygen service
- Vacuum services
- Hydrogen peroxide service
- Double block and bleed valve
- FM approved safety shut-off & vent valves
- FM approved emergency shut-off heat activated valves
- CSA approved gas shut-off & vent valves
- FM approved electric interlocking valve
- 3-way flanged valves
- Barrier seat valves
- Cavity fillers

<sup>1</sup> Consult factory for specific material availability.

Monel is a registered trademark of Speciality Metals Corporation.

Hastelloy is a registered trademark of Haynes International, Inc.

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