

Jamesbury™ high-performance ball valves for steam service

Jamesbury high-performance ball valves are ideal for use in a wide range of industrial, commercial and institutional steam applications, including both saturated and superheated steam. They are available in sizes 1/4" through 20" (DN 8 – 500) with a variety of end connections, pressure ratings, and seat materials all possessing unique features common to Jamesbury brand valves.

Features

- Proven flexible lip seat design in polymeric seated valves assures long lasting positive shut-off.
- Operation is always easy, even when valves are cycled infrequently.
- Minimum maintenance requirements reduce down-time and lower costs.
- High flow capacity with minimum pressure drop.
- Quarter turn operation for stem seal integrity.
- Continuous position indication.
- Easy to automate.

Pressure ratings

Maximum steam pressure ratings of polymeric seats in ball valves used for on-off service are shown in Table 1. Flanged ball valves, ANSI rated Eliminator™ and 4000 Series conform to standard Class valve ratings published in ANSI B16.34. Throttling applications for polymeric seated valves should be limited to pressure drops of 50 psi (3.5 bar) or less, due to the erosive effect of steam on a partially open ball valve. Any valve used in steam service should have 316 stainless steel ball and stem.

Table 1					
Valve type	Valve size		Seat material	Differential Max. pressure	
	Inches	DN		psi	bar
All Types	1/4 – 2	8 – 50	PTFE (T)	150	10
A-Style	1/4 – 2	8 – 50	XTREME™ (X)	475	33
ELIMINATOR	1/4 – 2	8 – 50	XTREME (X)	475	33
6E, 3A, 3C	1/2 – 2	15 – 50	Filled PTFE (M)	250	17
2000, 3000	1/4 – 2	8 – 50	Filled PTFE (M)	250	17
4000	1/2 – 2	15 – 50	XTREME (X)	475	33
			Peek® (L)	475	33
			PFA (B)	225	15
7150	1/2 – 6	15 – 150	XTREME (X)	200	14
			Peek (L)	200	14
			PFA (B)	180	12
7150	8 – 10	200 – 250	Filled PTFE (M)	200	14
			XTREME (X)	200	14
			XTREME (X)	425	29
730S, 7300	1/2 – 6	15 – 150	Peek (L)	425	29
			PFA (B)	180	12
			Filled PTFE (M)	200	14
730S, 7300	8 – 10	200 – 250	XTREME (X)	425	29
			XTREME (X)	200	14
			Peek (L)	200	14
9150	1/2 – 4	15 – 100	PFA (B)	180	12
			Filled PTFE (M)	200	14
			XTREME (X)	200	14
9150	6 – 12	150 – 300	XTREME (X)	425	29
			Peek (L)	425	29
			PFA (B)	180	12
9300	6 – 12	150 – 300	Filled PTFE (M)	200	14
			XTREME (X)	425	29
			XTREME (X)	425	29

* PTFE (T) seats may be used but filled PTFE (M) are recommended.

How to order

Ordering instructions, along with dimensions and other specifications for Jamesbury ball valves suitable for steam service, can be found in the bulletins listed to the right.

Valve type	Bulletin
Style A screwed end valves	B100-1
ELIMINATOR screwed end valves	B101-2
Series 6F full port screwed end ball valves	B101-3
Series 2000 Clincher™ screwed end valves	B102-1
Series 3000 screwed end valves	B104-1
Series 4000 3-piece screwed, socket weld, and butt weld end valves	B105-1
Series 3A/3C 3 piece ball valves	B105-4
ANSI Class 150 and 300 flanged ball valves Series 7000	B107-1
ANSI Class 150 and 300 flanged ball valves Series 9000	B107-2

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