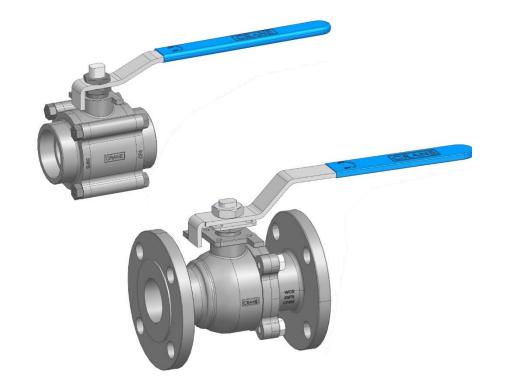


Crane Ball Valves





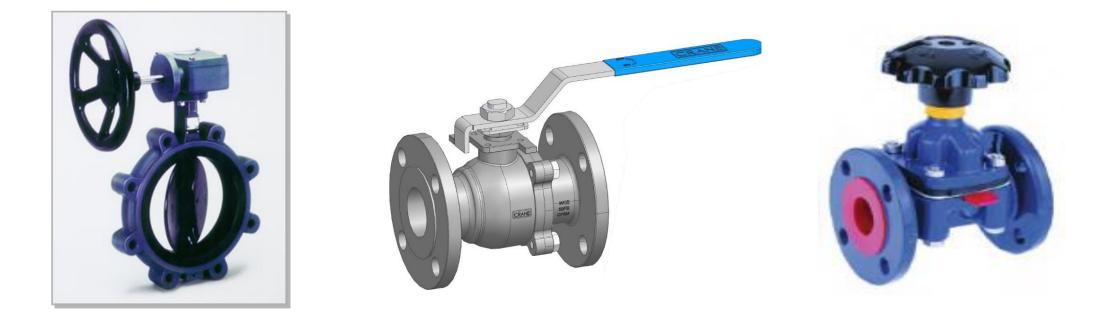
Process Ball Valves with

- Safety Features
- Quality
- Performance



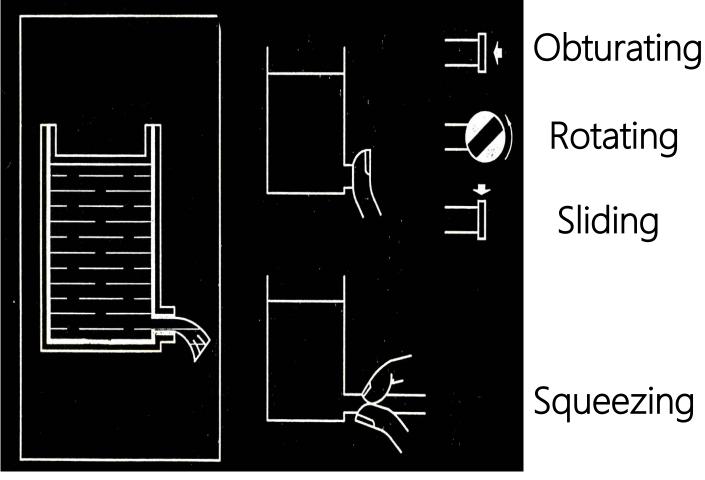


"<u>Valve</u> is a Pressure containing mechanical device used to shut off or otherwise modify the flow of fluid that passes through it"



Valves Functions of a Valve

- ON / OFF (flow or no flow)
- Controlling / Modulating the flow
- Diverting the flow
- Unidirectional flow







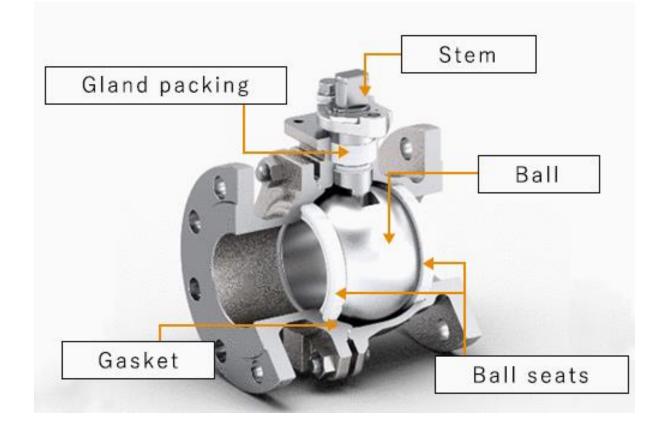
Types of a Valves







<u>Ball valves</u> generally have a structure in which the valve "ball", is held between two seat rings referred to as "ball seats". As mentioned above, the "stem" connected with the ball is rotated 90° to turn the valve on or off.



Ball Valves Types – Based on Design



Floating Ball

- The ball is not fixed but is free to move slightly.

- The ball is held in place by the pressure of the fluid acting on the ball, which helps to create a seal against the valve seat.



Floating Ball





Trunnion-mounted Ball

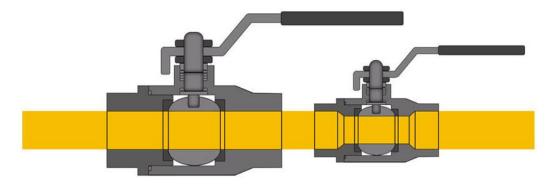
Trunnion Mounted Ball

- The ball is supported by trunnions, essentially pins or shafts mounted on the valve body.

- These trunnions support the ball in place and help to manage the forces acting on the ball during operation.

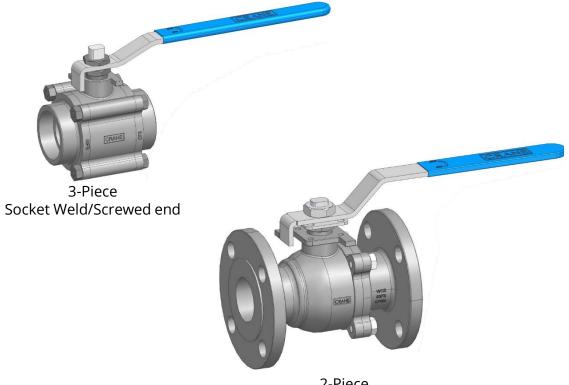
Ball Valves Types – Based on Bore and Ends





Full Bore

Reduced Bore



2-Piece Flanged end

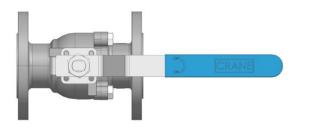
Crane Ball Valve - Product Overview



Body Configuration	Туре	End Connection	Pressure Class	1/2"	3/4"	1"	1 1/2"	2"	2 1/2"	3"	4"	6"
				15	20	25	40	50	65	80	100	150
2 Piece, Full Bore	Non-Fire Safe	Flanged	Cl. 150			•	•	•	•	•	•	•
3 Piece, Full Bore	Non-Fire Safe	Flanged	Cl. 150	•	•							
2 Piece, Full Bore	Non-Fire Safe	Flanged	Cl. 300	•	•	•	•	٠	•	•	•	•
3 Piece, Full Bore	Non-Fire Safe	Screwed / Socket-weld	Cl. 600	•	•	•	•	٠				
2 Piece, Reduced Bore	Non-Fire Safe	Flanged	Cl. 150			•	•	٠	•	•	•	•
3 Piece, Reduced Bore	Non-Fire Safe	Flanged	Cl. 150	•	•							
3 Piece, Reduced Bore	Non-Fire Safe	Screwed / Socket-weld	Cl. 600	•	•	•	•	٠				
2 Piece, Full Bore	Fire Safe	Flanged	Cl. 150			•	•	•	•	•	•	•
3 Piece, Full Bore	Fire Safe	Flanged	Cl. 150	•	•							
2 Piece, Full Bore	Fire Safe	Flanged	Cl. 300	•	•	•	•	•	•	•	•	•







Materials of Construction

- Standard: A216 Gr. WCB; A351 Gr. CF8M
- Options upon request: CF8, CF3M

Size Range

• 1/2" up to 6" / DN15 up to DN150

Pressure Ratings

- Flanged Ends : ASME Cl. 150, Cl. 300,
- Screwed/Socket Welds : ASME Cl. 600

Body Configurations

- Flanged End ASME B16.5
- Socket Weld / Screwed Ends
- Floating Ball Design

General Standards

- API 608, EN 17292 and ASME B16.34 compliant
- Quality certification as per ISO 9001
- ISO 5211 actuator mounting
- Leakage as per ANSI / FCI 70-2 Class VI (tested to API- 598)
- Fire Tested as per : API 607, EN-ISO 10497, API 6FA

Temperature Range

-29°C up to +230°C, depending on valve type and material selection

2-Piece Flanged end

Crane Ball Valve – Part List

PART NO.

BODYTAIL PIECEBALLSTEMSEATBODY SEALSTEM SEAL	QT Y 1 1 1 1 2 1 1 2 1 1 2 1		PART NO. 1 2 3 4 5 6 7 8 8 9 10	PART BODY TAIL PIECE BALL STEM SEAT BODY SEAL STEM SEAL GLAND PACKING GLAND NUT LEVER	QTY 1 1 1 1 2 1 1 2 1 2 1 1 2
GLAND PACKING	2			GLAND PACKING	2
	1		_		1
WASHER	1		10	WASHER	1
LEVER NUT	1		12	LEVER NUT	1
LEVER GRIP	1		13	LEVER GRIP	1
BOLT	4		14	BOLT	4
		671 3 5 2 14 13			



3-Piece Socket Weld/Screwed end

Crane Ball Valve – Features

CRANE

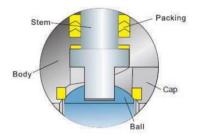
1. ISO Mounting Pad

ISO 5211 mounting pad allows precise mounting of actuator, mounting bolts are independent and exact alignment prevents side load and out-ofline wear for flanged end valves



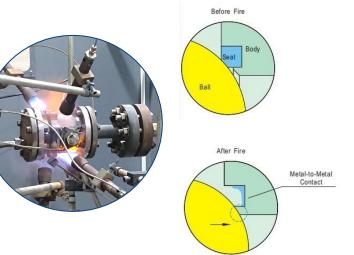
3. Blow-out proof stem

Stem has larger diameter at stem collar inside body that prevents it from blowing out in case of pressure build up



5. Fire Safe Design

Secondary metal sealing on body minimizes the leakage, in case of a fire in the pipeline



2. Solid Ball with Mirror-finish

Solid Ball provides straight through flow and real full-port performance characteristics. The solid construction of the balls also guarantees higher structural strength and provides safety in the service involving thermal expansion



4. Antistatic Design

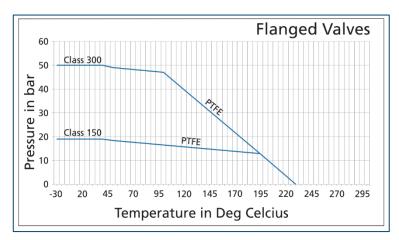
Critical safety feature that helps prevent the buildup of static electricity during valve operation

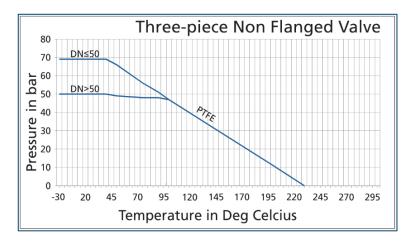


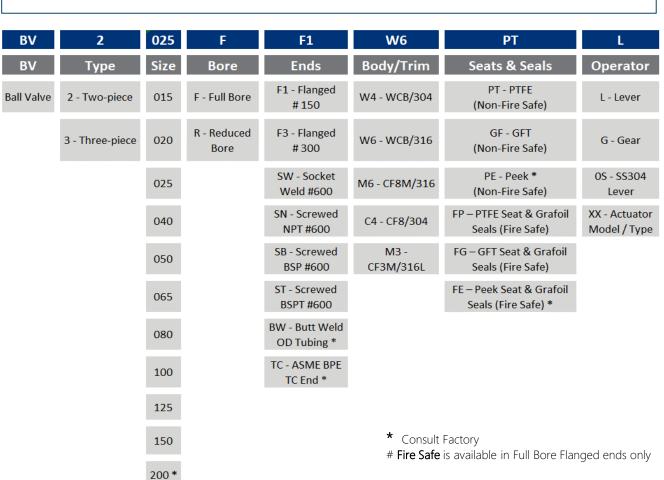
Crane Ball Valve - Technical Specifications



Pressure Temperature Charts – PTFE Seat Material







Ordering Information



THINK **BIG** • BE **BOLD** • ACT **FAST**

