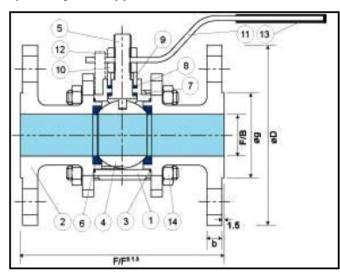
Ball Valves

Characteristics

Ball valves are quarter-turn, straight through flow valves that have a round closure element with matching rounded seats that permit uniform sealing stress. Ball valves are used in situations where tight shut-off is required. The type of seat can vary with the valve pressure rating and materials of construction.

In general, ball valves offer many advantages when contrasted with other valve types. They provide superior ease of operation and can maintain and regulate high volume, high pressure and high temperature flow. Additionally, the design of the regulating element allows the valve to function without the complications of side loads, typical of butterfly or globe valves, and the valve design permits inspection and repair of seats and seals without removing the valves' body from the line.

Ball valves are available in a variety of body styles, including one-piece, two-piece, three-piece and flanged body construction. Each of these ball valve forms offers specific advantages depending upon the requirements of the given application. Similarly, they are designed using a wide variety of materials, as required by their application.



APPLICABLE STANDARDS:

- . Manufacturing Standard: BS 5351/ API 6D
- Testing as per BS 6755(PT-I)
- Face To Face As per ANSI B16.10
- End Flange & Drilled As per BS 6577 / API 598
- Anti Static device available on request.

• Test Standard: BS 6755(PT-I)

Test pressure in PSIG			
	Class	150	300
Hydro	Body	450	1140
	Seat	315	840

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Material Specification:

Part No.	Part Name Specification	
01	Body	ASTM A216 Gr. WCB
02	Side piece	ASTM A216 Gr. WCB
03	Body Gasket	PTFE
04	Ball	AISI SS304
05	Stem	AISI SS304
06	Ball Seat	PTFE
07	Stem Seal	PTFE
08	Gland Packing	PTFE
09	Gland	AISI 304
10	Gland Nut	AISI 304
11	Lever	Malleable Iron / Cast Steel
12	Lever Nut	Carbon Steel
13	Lever Sleeve	PVC
14	Body Stud & Nuts	ASTM A193 Gr. B7 & ASTM A194 Gr. 2H

Any other special materials or requirements available on request.

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OUR PRODUCT RANGE

Valve Type	ASME	Desigr	Standard	Valve	Material	Size
	Class	P-T Rating	Complies to	Shell	Trim	Range
	150			WCB, LCB,	AISI: SS410,	1" TO 24"
	300			CF8, CF8M,	304,304L, 316,	1" TO 24"
Gate Valve	600			CF3, CF3M,	316L, ST6, Hard	2" TO 12"
	900		API 600/BS 1414	C5,WC6,	Faced,	2" TO 12"
	1500			CD4MCu,	Etc.	2" TO 12"
	2500			Etc.		2" TO 8"
	150			WCB, LCB,	AISI: SS410,	1" TO 16"
	300			CF8, CF8M,	304,304L,	1" TO 12"
Globe Valve	600		API 600/BS 1873	CF3, CF3M,	316, 316L, ST6,	2" TO 12"
	900			C5,WC6,	Hard Faced,	2" TO 12"
	1500			CD4MCu,	Etc.	2" TO 12"
	2500			Etc.		2" TO 8"
	150			WCB, LCB,	AISI: SS410,	2" TO 24"
	300			CF8, CF8M,	304,304L,	2" TO 24"
Non-Return	600		API 600/BS 1868	CF3, CF3M,	316, 316L, ST6,	2" TO 12"
Valve	900	ANSI B16.34		C5,WC6,	Hard Faced,	2" TO 12"
	1500			CD4MCu,	Etc.	2" TO 12"
	2500			Etc.		2" TO 8"
Forged Steel	800			A105, F304,		1/4"TO 2"
Gate Valve	1500		API 602/BS 5352	F316, F304L, F316L, Etc.	- do -	1/4" TO 11/2"
Forged Steel	800			A105, F304,		1/4"TO 2"
Globe Valve	1500		API 602/BS 5352	F316, F304L,	- do -	1/4" TO 11/2"
				F316L, Etc.		
Forged Steel	800			A105, F304,		1/4"TO 2"
Check Valve	1500		API 602/BS 5352	F316, F304L,	- do -	1/4" TO 11/2"
				F316L, Etc		
Wafer Type	150/PN 10		A DI COAVA DI CD	CI, WCB, CF8,	Seat: EPDM, Viton,	1" TO 28"
Check Valve	300/PN 16		API 594/API 6D	CF8M, Etc.	Nitrile, Silicone, PTFE, Etc.	1" TO 28"
	150			WCB,	PTFE, Reinforced	2" TO 6"
Ball Valve	300		API 6D/BS 5351	CF8, CF8M,	PTFE, Etc.	2" TO 6"
	800			A105, Etc.		½" TO 2"
Butterfly	150/PN 10		API 609/BS 5155	CI, WCB, CF8,	Seat: EPDM,	1" TO 48"
Valve	300/PN 16			CF8M, Etc.	Hyplone, PTFE Nitrile, Silicone, etc	1" TO 48"
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- + Any other special materials or requirements available on request.
- + Gear Box & actuator operated valves available upon request.
- + Stelliting or Hard facing of valve seats available upon request.
- + Position Indicator, By-Pass arrangement, Locking arrangement available upon request.
- + Seal welded body seatring available upon request.
- + Butt Weld Ends available upon request.
- + Swing Check Valves available with Dash Pot & counter Weight Arrangement upon request.
- + Butt Weld Ends available upon request.

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DESIGN SPECIFICATIONS

Items	American Standard	British Standard
Shell wall thickness and general valve design	API 600 / API 6D /	BS1414 (Gate valve)
specifications for Cast Steel & Forged Valves	API 602 / ASME B 16.34	BS1873 (Globe valve)
		BS1868 (Check valve)
Pressure-temperature ratings	ASME B16.34	BS1560
Face-to-face dimensions for Flanged Ends	ANSI B16.10	BS2080
End-to-end dimensions for Butt Weld Ends		
End flange dimensions for Flanged Ends	ANSI B16.5	BS1560
Welding end dimensions for Butt Weld	ANSI B16.25	BS1414 (Gate valve) BS1873 (Globe valve) BS1868 (Check valve)
Welding end dimensions for Socket Weld	ANSI B 16.11	
Testing & Inspection Standard	API 598	BS 6755 (Part-I)
Radiography & NDT	ASME 16.34	

INSPECTION AND WARRANTY POLICY

Each & every valves are subjected to 100% pressure tests, according to API 598 or BS 6755 Part 1 requirements. Material test reports and inspection certificates are available on your request, while each valve is guaranteed for 12 months after placement in service, but not exceeding 18 months after shipment from our factory.

Some of the additional inspections and tests performed are:

- Random Radiograph Inspection of Body and Bonnet Castings to ASME B16.34 Appendix B
- Random Chemical Composition and Mechanical Properties Verification of Fasteners to ASTM A-193/A-194
- Liquid Penetrate Inspection of Seat Rings
- Visual Inspection of Casting to MSS-SP-55
- Receiving, In-Process, and Final Dimensional Inspections to Relevant Valve Standards.

Test / Inspection Item	Complies to	Evaluation	
Chemical composition analysis		Relevant ASTM Std.	
Mechanical property test	ASTM A370	Relevant ASTM Stds.	
Pressure tests	API 598 or BS 6755 Part 1	API 598	
Radiographic inspection	ASTM E142 / E49		
Wet magnetic particle inspection	ASTM E138	ASME B16.34	
Liquid penetrant inspection	ASTM E165		
Low temperature impact test	ASTM E23	ASTM A352	
Dimensional inspection		Relevant Valve Stds.	
Visual inspection		MSS SP-55	

Other inspections or tests can be performed or evaluation criteria applied when specified by the customer.

Inddop.empl@gmail.com

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TRUNNION MOUNTED BALL VALVE

API 6D Trunnion Mounted Ball Valve

Ultraflow Offers Pneumatic Actuator Operated, The Inconel Spring Trunnion Mounted Ball Valve is a robust API 6D monogrammed 2 piece design with bi-directional sealing. SRE Series trunnion mounted ball valves are designed for general industrial and chemical applications, and include the following features standard. chemical, oil, petrochemical, gas, pulp, paper processing and other industries. Chemical, Pharmaceutical, Food, Pharmaceutical, Petrochemical, Energy, Plastics, Oil & Gas, Cement & Iubrication

Size Range: : 4" to 24" Flanged

DBB (Single Piston Design)

DIB - 1: Double isolation and bleed valve (Double Piston Design On Request)

DIB - 2: Double isolation and bleed valve

One side Single piston(uni-directional), one side double piston(bi-directional)



Standard		
Design And Manufacturer	API 6D	
Valve Face To Face Dimension	API 6D	
Flange Standard Conformity	ASME B 16.5 150# & 300#	
Inspection & Testing	API – 6D	

Accessories

- → On / OFF Indicator
- → NAMUR Standard Solenoid Valve in all Standard Coil Voltage (Flame Proof Solenoid Coil On Request)
- → Pneumatic & Electro-Pneumatic valve positioner
- → Declutchable Manual Over Ride
- → Limit Switches for On / Off Indication at Panel Board
- → Filter + Regulator Combination with Pressure Gauge
- → Air Lock Valve

Description	Material
Body	WCB / CF8 / CF8M / CF3M
Connector	WCB / CF8 / CF8M / CF3M
Ball	CF8 / CF8M / CF3M
Ball Seat	PTFE
Adapter	CF8 / CF8M
Spring	Inconel
Stem Pin	S.S.304 \S.S. 316
Distance Bush For Stem	S.S.304
Key For Shaft	S.S.304
Spring & Ball For Anti Static	S.S.304
Acuator Plate	S.S.304
Body Fitting Stud + Hex Nut	M.S / S.S.304
Trunnion Pin	S.S.304 / S.S.316
Distance Bush For Trunnion	S.S.304
Trunnion Plate	S.S.304
Drain & Vent	S.S.304
Sealent	S.S.304
	Body Connector Ball Ball Seat Adapter Spring Stem Pin Distance Bush For Stem Key For Shaft Spring & Ball For Anti Static Acuator Plate Body Fitting Stud + Hex Nut Trunnion Pin Distance Bush For Trunnion Trunnion Plate Drain & Vent