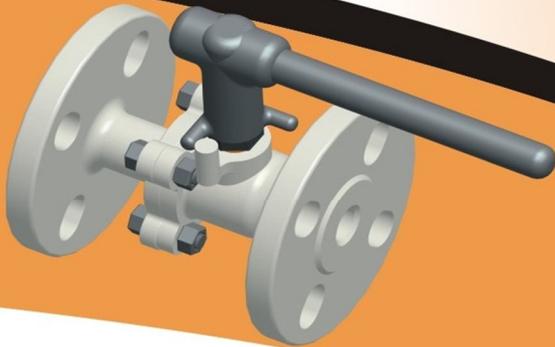


Hi-TECH ALWAYS AHEAD

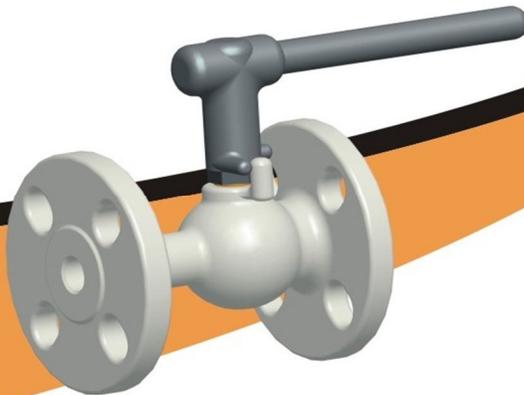
ISO 9000 CERTIFIED CO.



HI-TECH



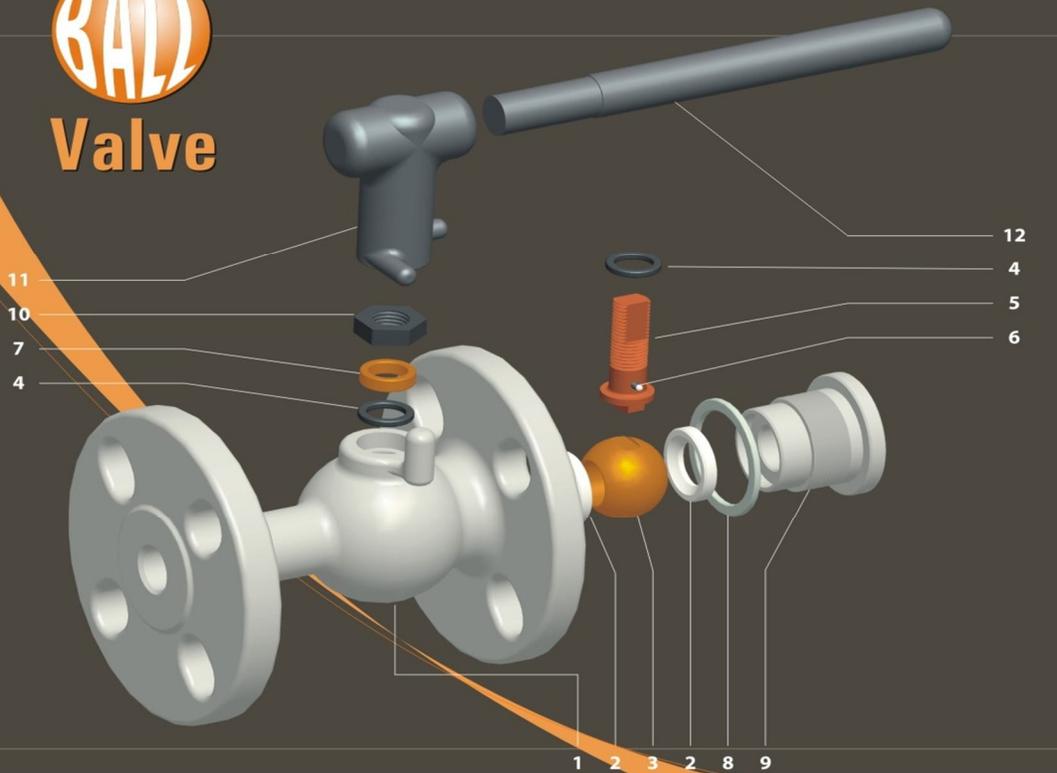
Valves



Hi-TECH BUTTERFLY VALVES INDIA PVT. LTD.

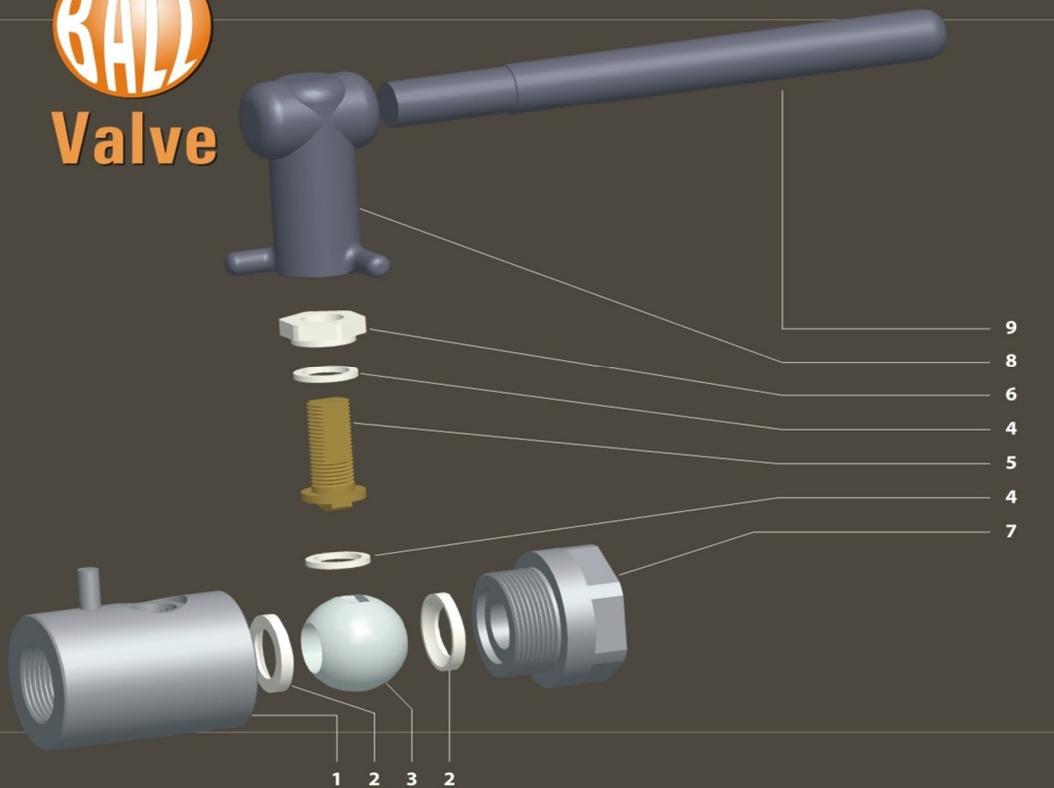


Single Piece Flanged End

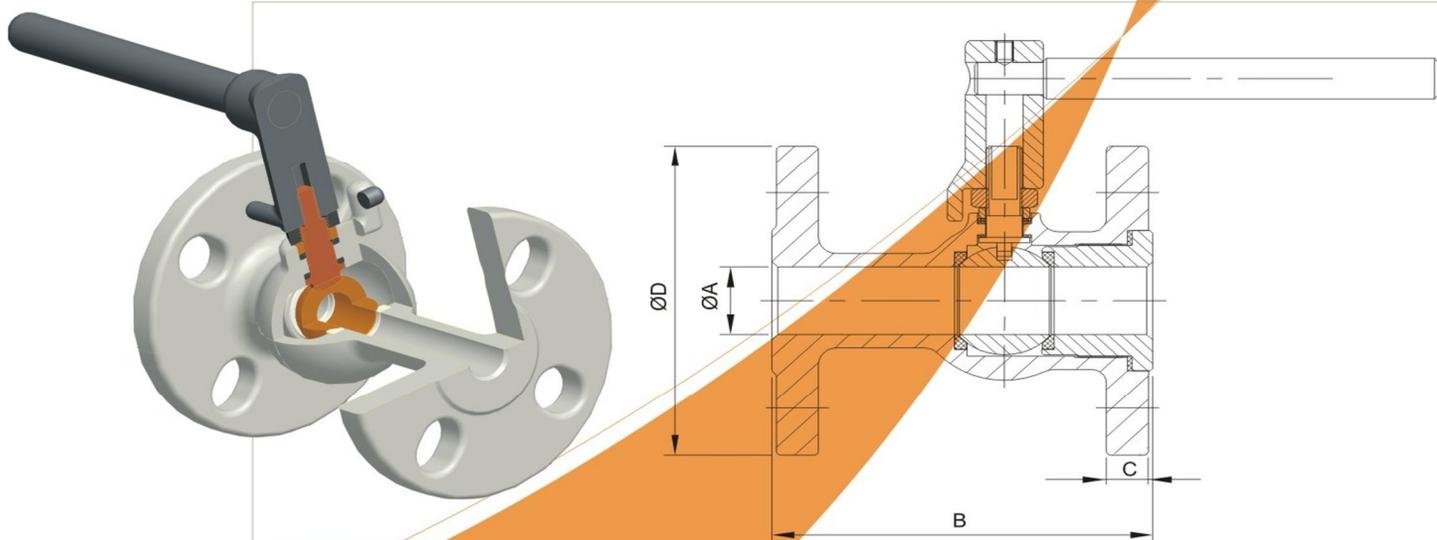


- 1 - Housing (Body)
- 2 - Seat
- 3 - Ball
- 4 - Gland Seal
- 5 - Stem
- 6 - Antistatic Arrangement
- 7 - Gland Bush
- 8 - Gasket
- 9 - Seat Retainer
- 10 - Gland Nut
- 11 - Handle Cap
- 12 - Handle Rod

Single Piece Screwed End



- 1 - Housing
- 2 - Seat
- 3 - Ball
- 4 - Gland Seal
- 5 - Stem
- 6 - Gland Nut
- 7 - Retainer
- 8 - Handle Cap
- 9 - Handle Rod



FEATURES OF THE HI-TECH FIRE SAFE DESIGN BALL VALVE

1. Minimum body cavity : Enhances performance in many services by minimising media retention & proces contamination.
2. Stem : Larger stem diameter . Blowout proof stem.
3. Ball : Super (mirror) smooth finish.
4. Anti Static grounding : Ball Stem & body are continously grounded to eliminate static discharge.
5. Replaceable Handle : Simplicity & security.
6. Body Gasket : PTFE
7. Seats : PTFE
8. Seat Design (Fire Safe) : Cavity pressure relieving (CPR) seats ensure that pressure generated through media expansion when the valve is closed is safely released upstream.
9. Special Options :
 - ▶ Stem Extensions,
 - ▶ Special alloy materials are available, i.e. NAB / Brass / Gun Metal / Alloy 20 / 904 L / Hastelloy C
 - ▶ Control ball valves are available,
 - ▶ Reduced bore & full bore options are available.
10. Lower torque for ease of operation and reduced actuator cost.
11. Application : Petrochemical, Oil and Gas production, Refining, Energy, Pulp & Paper and Others.
12. Service : Steam, Chemicals, LPG, Thermal Fluid, Chlorine, Ammonia, Sour Gas

DIMENSIONAL DETAILS (Full Bore)

Size	ØA	B	C	ANSI B16.5		
				ØD	PCD	n x Ød
½" (15mm)	13	108	11	90	60	4 x 14
¾" (20mm)	19	118	13	98	70	4 x 14
1" (25mm)	25	127	14	108	79	4 x 14
1¼" (32mm)	32	100	16	140	100	4 x 14
1½" (40mm)	38	165	18	127	98	4 x 14
2" (50mm)	50	178	19	152	120	4 x 18
2½" (65mm)	65	190	22	178	140	4 x 18
3" (80mm)	75	203	24	190	152	4 x 18
4" (100mm)	100	229	24	229	190	8 x 18
6" (150mm)	150	267	25	280	241	8 x 20
8" (250mm)	200	292	29	344	298	8 x 20

All Dimensions are in mm

Material Specification

Part	Carbon Steel	Stainless Steel
Housing	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
Ball	ASTM A351 Gr. CF8M	ASTM A351 Gr. CF8M
Seat	PTFE	PTFE
Stem	AISI 316	AISI 316
Body Seal	PTFE	PTFE
Gland Packing	Graphite	Graphite
Stem Seal	35% Carbon-filled PTFE	35% Carbon-filled PTFE

SPECIFICATIONS

Valve Design	BS 5351 / ANSI B 16.34
Face to Face	ANSI B16.10 (short)
Fire Test	API 607
Pressure testing	API 598 (Testing as per BS 6755 Part I on special request)
End Connection	ASME B16.5 Class 150 RF and Class 300 RF or BS-10D

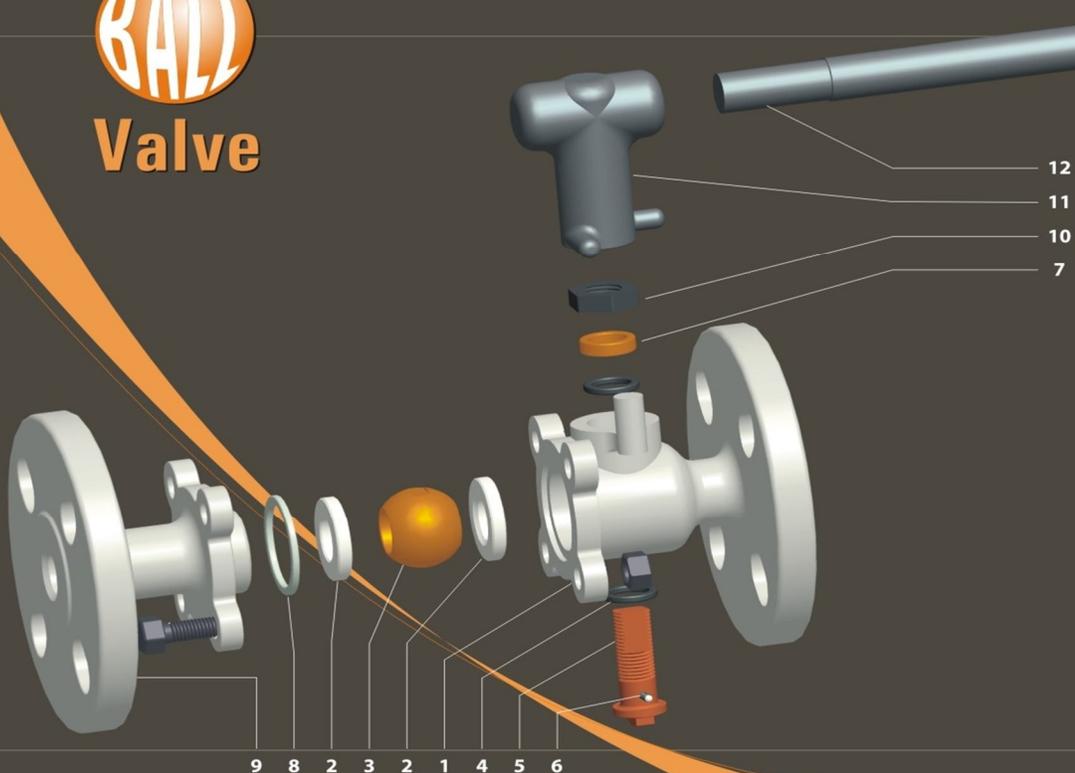
PRESSURE TESTING

<i>Test Pressures</i>			
Ends		kg/cm ²	(psi)
Shell Class 150 (hydrostatic)		31.5	(450)
Class 300 (hydrostatic)		79.0	(1125)
Seat Class 150 (air)		5.6	(80)
Class 300 (air)		5.6	(80)



Two Piece Flanged End

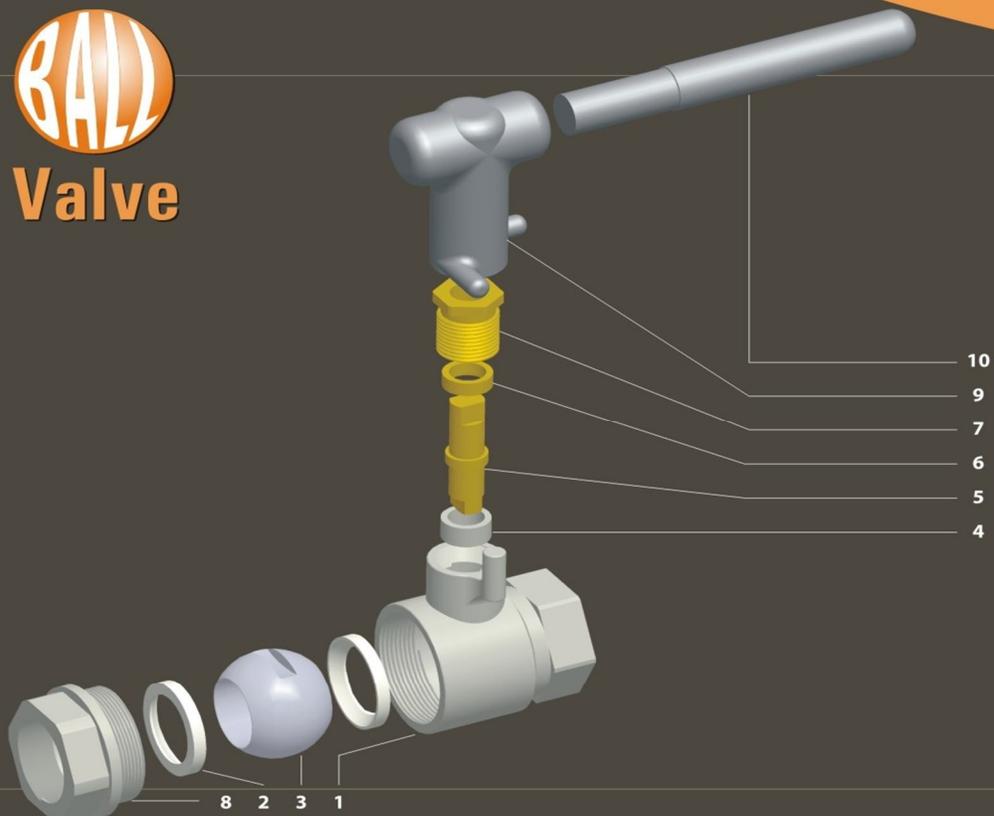
BALL Valve



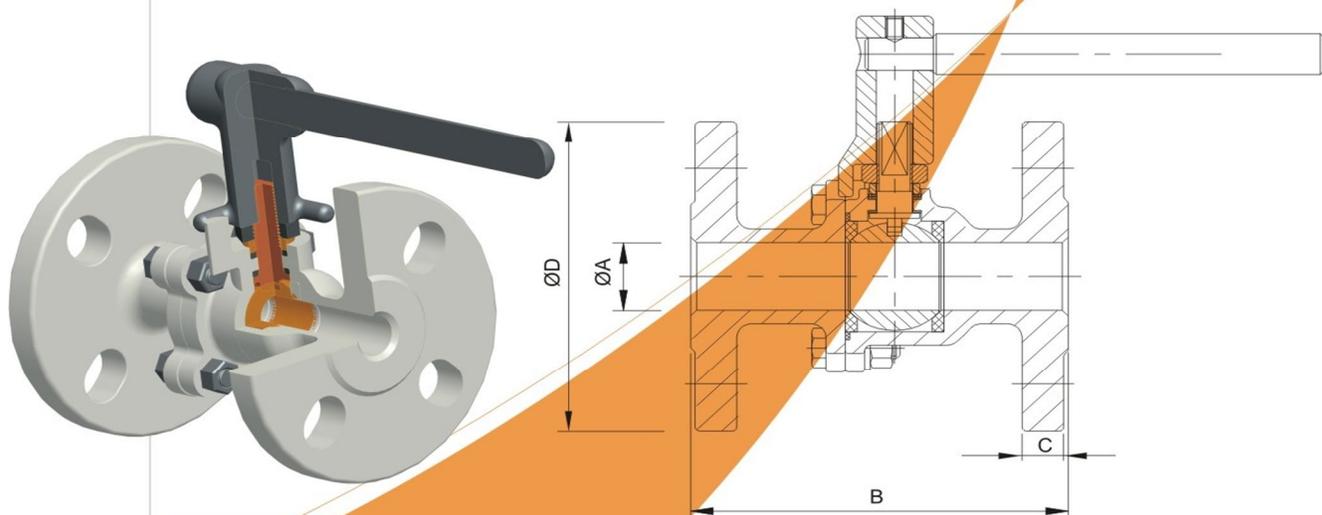
- 1 - Housing
- 2 - Seat
- 3 - Ball
- 4 - Gland Seal
- 5 - Stem
- 6 - Antistatic Arrangement
- 7 - Gland Bush
- 8 - Gasket
- 9 - Cover
- 10 - Gland Nut
- 11 - Handle Cap
- 12 - Handle Rod

Two Piece Screwed End

BALL Valve



- 1 - Housing
- 2 - Seat
- 3 - Ball
- 4 - Gland Packing
- 5 - Stem
- 6 - Gland Bush
- 7 - Gland Nut
- 8 - Cover
- 9 - Handle Cap
- 10 - Handle Rod



FEATURES OF THE HI-TECH FIRE SAFE DESIGN BALL VALVE

1. Minimum body cavity : Enhances performance in many services by minimising media retention & proces contamination.
2. Stem : Larger stem diameter . Blowout proof stem.
3. Ball : Super (mirror) smooth finish.
4. Anti Static grounding : Ball Stem & body are continously grounded to eliminate static discharge.
5. Replaceable Handle : Simplicity & security.
6. Body Gasket : PTFE
7. Seats : PTFE
8. Seat Design (Fire Safe) : Cavity pressure relieving (CPR) seats ensure that pressure generated through media expansion when the valve is closed is safely released upstream.
9. Special Options :
 - ▶ Stem Extensions,
 - ▶ Special alloy materials are available, i.e. NAB / Brass / Gun Metal / Alloy 20 / 904 L / Hastelloy C
 - ▶ Control ball valves are available,
 - ▶ Reduced bore & full bore options are available.
10. Lower torque for ease of operation and reduced actuator cost.
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DIMENSIONAL DETAILS (Full Bore)

Size	ØA	B	C	ANSI B16.5		
				ØD	PCD	n x Ød
½" (15mm)	13	108	11	90	60	4 x 14
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1¼" (32mm)	32	100	16	140	100	4 x 14
1½" (40mm)	38	165	18	127	98	4 x 14
2" (50mm)	50	178	19	152	120	4 x 18
2½" (65mm)	65	190	22	178	140	4 x 18
3" (80mm)	75	203	24	190	152	4 x 18
4" (100mm)	100	229	24	229	190	8 x 18
6" (150mm)	150	267	25	280	241	8 x 20
8" (250mm)	200	292	29	344	298	8 x 20

All Dimensions are in mm

Material Specification

Part	Carbon Steel	Stainless Steel
Housing	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
Cover	ASTM A105 or ASTM A216 Gr. WCB	ASTM 316 or ASTM A351 Gr. CF8M
Ball	ASTM A351 Gr. CF 8M	ASTM A351 Gr. CF8M
Seat	PTFE	PTFE
Stem	AISI 316	AISI 316
Body Seal	PTFE	PTFE
Gland Packing	Graphite	Graphite
Stem Seal	35% Carbon-filled PTFE	35% Carbon-filled PTFE

SPECIFICATIONS

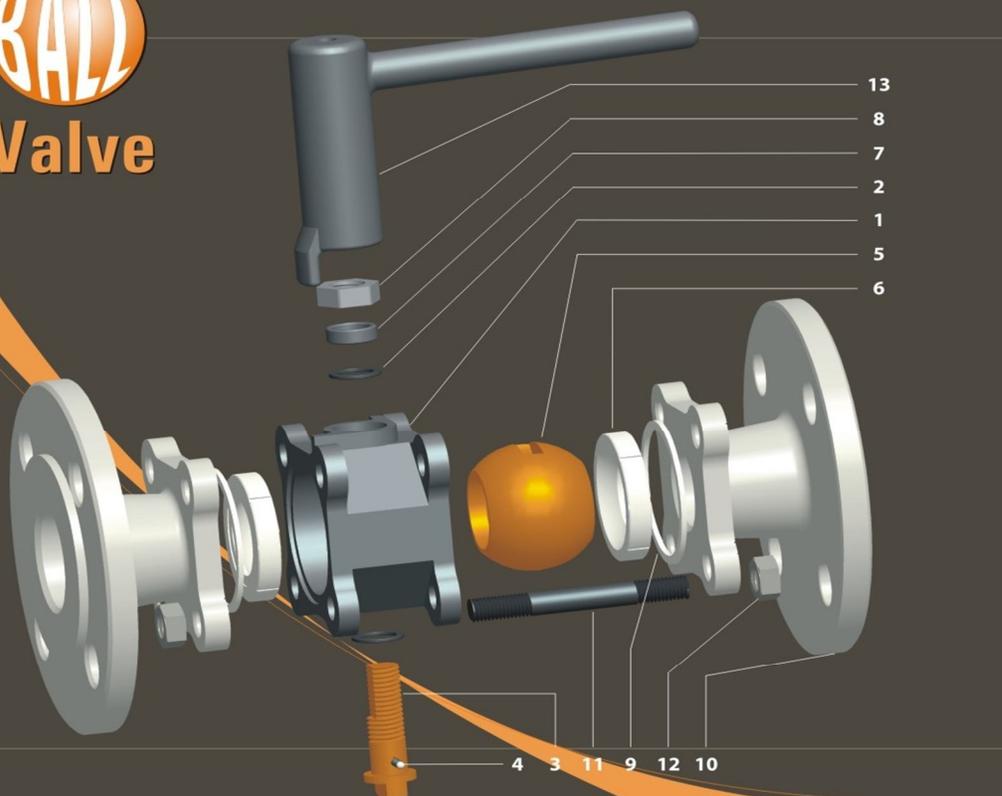
Valve Design	BS 5351 / ANSI B 16.34
Face to Face	ANSI B16.10 (short)
Fire Test	API 607
Pressure testing	API 598 (Testing as per BS 6755 Part I on special request)
End Connection	ASME B16.5 Class 150 RF and Class 300 RF or BS-10D

PRESSURE TESTING

<i>Test Pressures</i>			
Ends		kg/cm ²	(psi)
Shell Class 150 (hydrostatic)		31.5	(450)
Class 300 (hydrostatic)		79.0	(1125)
Seat Class 150 (air)		5.6	(80)
Class 300 (air)		5.6	(80)

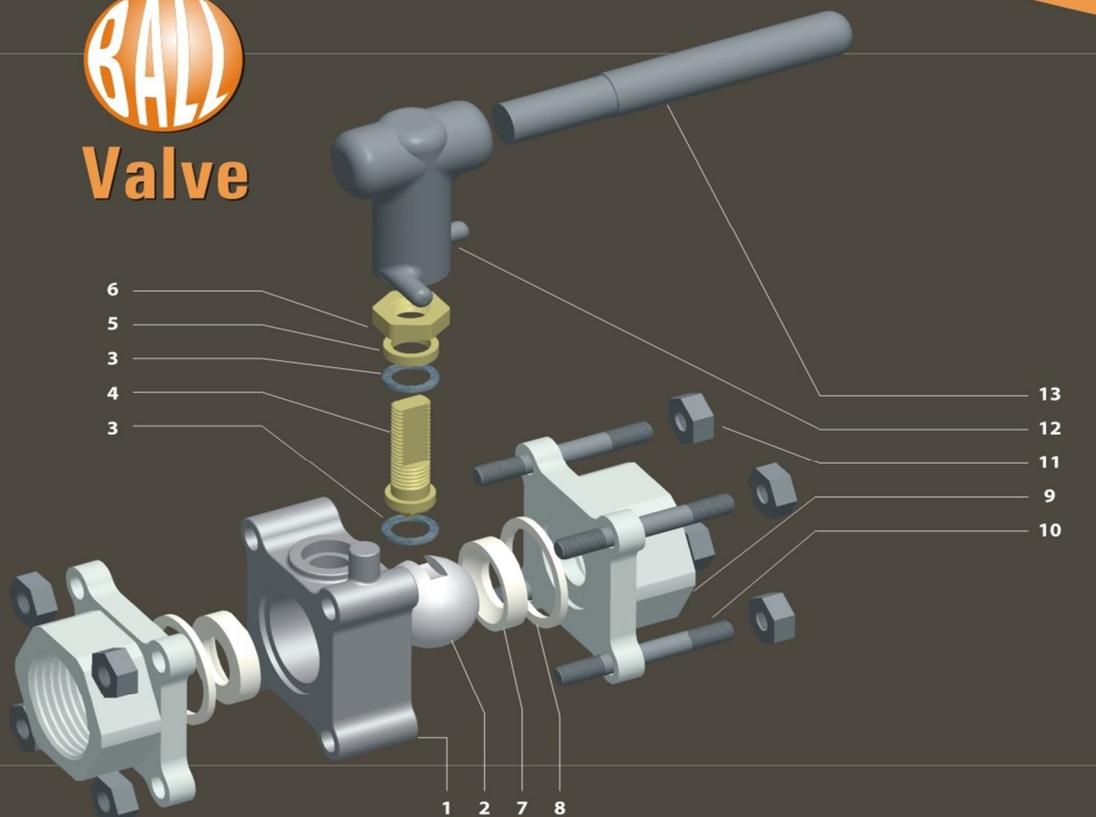


Three Piece Flanged End

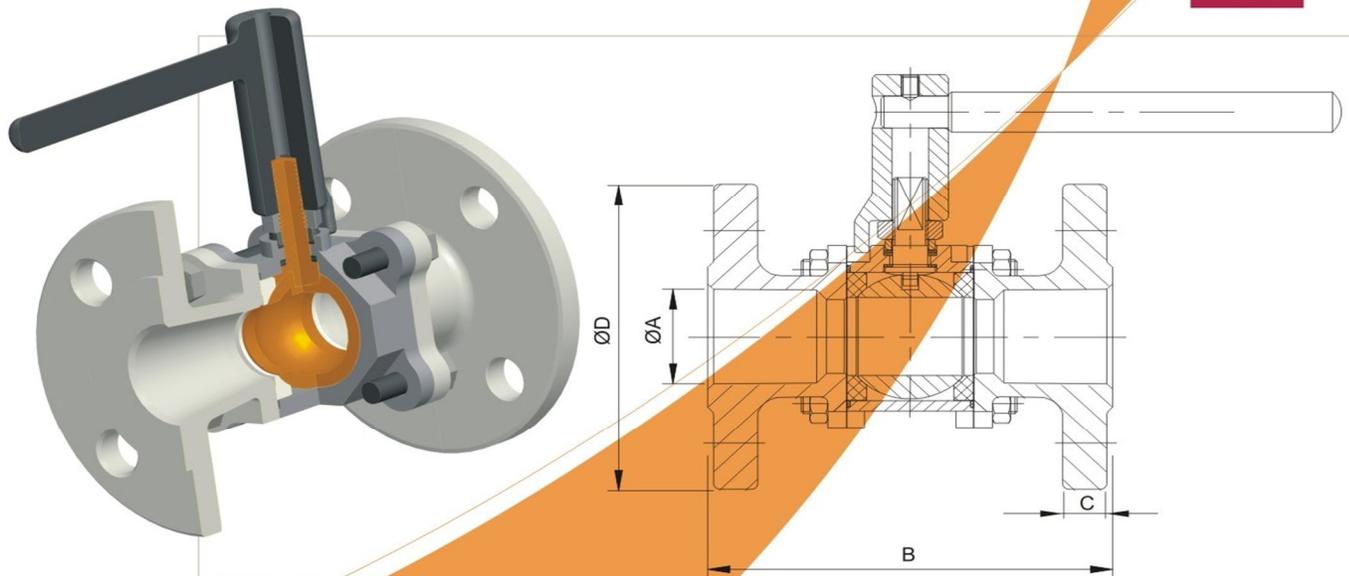


- 1 - Body
- 2 - Gland Seal
- 3 - Stem
- 4 - Antistatic Arrangement
- 5 - Ball
- 6 - Seat
- 7 - Gland Bush
- 8 - Gland Nut
- 9 - Gasket
- 10 - Tail Piece
- 11 - Stud
- 12 - Nut
- 13 - Handle

Three Piece Screwed End



- 1 - Body
- 2 - Ball
- 3 - Gland Packing
- 4 - Stem
- 5 - Gland Bush
- 6 - Gland Nut
- 7 - Seat
- 8 - Gasket
- 9 - Pipe End
- 10 - Stud
- 11 - Nut
- 12 - Handle Cap
- 13 - Handle Rod



FEATURES OF THE HI-TECH FIRE SAFE DESIGN BALL VALVE

1. Minimum body cavity : Enhances performance in many services by minimising media retention & proces contamination.
2. Stem : Larger stem diameter . Blowout proof stem.
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4. Anti Static grounding : Ball Stem & body are continously grounded to eliminate static discharge.
5. Replaceable Handle : Simplicity & security.
6. Body Gasket : PTFE
7. Seats : PTFE
8. Seat Design (Fire Safe) : Cavity pressure relieving (CPR) seats ensure that pressure generated through media expansion when the valve is closed is safely relieved upstream.
9. Special Options :
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 - ▶ Special alloy materials are available, i.e. NAB / Brass / Gun Metal / Alloy 20 / 904 L / Hastelloy C
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All Dimensions are in mm

Material Specification

Part	Carbon Steel	Stainless Steel
Body	ASTM A216 Gr. WCB	ASTM A351 Gr. CF8M
Tail Piece/ Pipe End	ASTM A105 or ASTM A216 Gr. WCB	ASTM 316 or ASTM A351 Gr. CF8M
Ball	ASTM A351 Gr. CF 8M	ASTM A351 Gr. CF8M
Seat	PTFE	PTFE
Stem	AISI 316	AISI 316
Body Seal	PTFE	PTFE
Gland Packing	Graphite	Graphite
Stem Seal	35% Carbon-filled PTFE	35% Carbon-filled PTFE

SPECIFICATIONS

Valve Design	BS 5351 / ANSI B 16.34
Face to Face	ANSI B16.10 (short)
Fire Test	API 607
Pressure testing	API 598 (Testing as per BS 6755 Part I on special request)
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PRESSURE TESTING

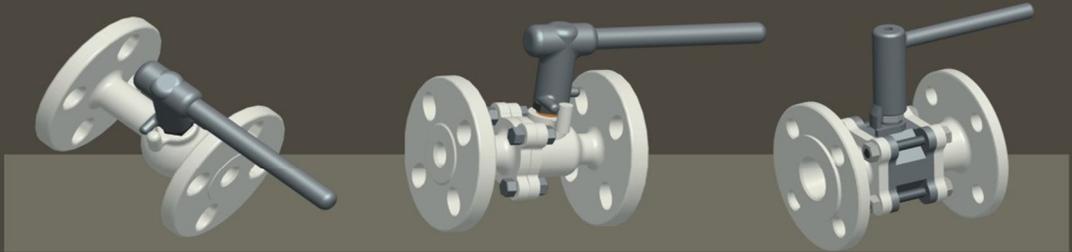
<i>Test Pressures</i>			
Ends		kg/cm ²	(psi)
Shell Class 150 (hydrostatic)		31.5	(450)
Class 300 (hydrostatic)		79.0	(1125)
Seat Class 150 (air)		5.6	(80)
Class 300 (air)		5.6	(80)



CNC



VMC



Hi-TECH BUTTERFLY VALVES INDIA PVT. LTD.

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