

SMALL BALL SERIES

1 PC SERIES BALL VALVE

MANUFACTURING STANDARDS

General Design	ASME B16.34 / API 6D
Construction	Cast steel 1PC body
Features	Reduced port Teflon seats Blow-out proof stem ISO Mounting pad Locking handle
Fire Safe Design	API 607 / API 6FA
Pressure Ratings	2000PSI Working Pressure
Connection	Threaded NPT to ASME B1.20.1



STANDARD PARTS & MATERIAL

No.	Parts	Carbon Steel 1FA2C20-T	Stainless Steel 1FA28M20-T
1	Body	A216 WCB	A351 CF8M
2	Ball	A351 CF8M	
3	Seat	PTFE/TFM 1600	
4	Stem	SS 316	
5	Stem Seal	PTFE	

Other valve material composition are available.

Port	Size (In)	Bore Size	End to End (L)	Center to Lever (H)	Length of Handle (mm)
FULL BORE	1/4	9.2 (0.36)	58.5 (2.30)	46 (1.81)	98
	3/8	9.2 (0.36)	58.5 (2.30)	46 (1.81)	98
	1/2	9.2 (0.36)	66.0 (2.60)	54 (2.13)	102
	3/4	12.5 (0.49)	70.0 (2.76)	56 (2.20)	102
	1	15.5 (0.61)	80.0 (3.15)	63 (2.48)	102
	1.1/4	20.0 (0.79)	95.0 (3.74)	67 (2.64)	104
	1.1/2	25.0 (0.98)	101.0 (3.98)	69 (2.72)	156
	2	32.0 (1.26)	114.0 (4.49)	77 (3.03)	156

Unit : mm (inch)

SMALL BALL SERIES

2 PCS SERIES BALL VALVE

MANUFACTURING STANDARDS

General Design	ASME B16.34 / API 6D
Construction	Cast steel 2PC body
Features	Full port upto 1.1/2" DELTRIN seats Blow-out proof stem ISO Mounting pad Locking handle
Fire Safe Design	API 607 / API 6FA
Pressure Ratings	3600PSI Working Pressure
Connection	Threaded NPT to ASME B1.20.1



STANDARD PARTS & MATERIAL

No.	Parts	Carbon Steel 2FA1C36-T	Stainless Steel 2FA18M36-T
1	Body	A216 WCB	A351 CF8M
2	Ball	SS 316	
3	Seat	DELTRIN	
4	Stem	SS 316	
5	Stem Seal	DELTRIN	

Other valve material composition are available.

Port	Size (In)	Bore Size	End to End (L)	Center to Lever (H)	Length of Handle (mm)
FULL BORE	1/4	6.4 (0.25)	76.2 (3.00)	60.4 (2.38)	125
	1/2	12.7 (0.50)	101.6 (4.00)	60.4 (2.38)	125
	3/4	19.1 (0.75)	108.0 (4.25)	70.8 (2.79)	146
	1	19.1 (0.75)	108.0 (4.25)	70.8 (2.79)	146
	1.1/2	38.1 (1.50)	134.4 (5.29)	110.7 (4.36)	349
	2	38.1 (1.50)	158.7 (6.25)	110.7 (4.36)	349

Unit : mm (inch)

SMALL BALL SERIES

2 PCS SERIES BALL VALVE

MANUFACTURING STANDARDS

General Design	ASME B16.34 / API 6D
Construction	Cast steel 2PC body
Features	Full port upto 1.1/2" PEEK seats, Blow-out proof stem ISO Mounting Pad Locking handle
Fire Safe Design	API 607 / API 6FA
Pressure Ratings	6000PSI Working Pressure
Connection	Threaded NPT to ASME B1.20.1



STANDARD PARTS & MATERIAL

No.	Parts	Carbon Steel 2FA1C60-T	Stainless Steel 2FA18M69-T
1	Body	A216 WCB	A351 CF8M
2	Ball	SS 316	
3	Seat	PEEK	
4	Stem	SS 316	
5	Stem Seal	PEEK	

Other valve material composition are available.

Port	Size (In)	Bore Size	End to End (L)	Center to Lever (H)	Length of Handle (mm)
FULL BORE	1/4	6.4 (0.25)	76.2 (3.00)	60.4 (2.38)	125
	1/2	12.7 (0.50)	101.6 (4.00)	60.4 (2.38)	125
	3/4	19.1 (0.75)	108.0 (4.25)	70.8 (2.79)	146
	1	19.1 (0.75)	108.0 (4.25)	70.8 (2.79)	146
	1.1/2	38.1 (1.50)	134.4 (5.29)	110.7 (4.36)	353
	2	38.1 (1.50)	158.7 (6.25)	110.7 (4.36)	353

Unit : mm (inch)

SMALL BALL SERIES

3 PCS SERIES BALL VALVE

MANUFACTURING STANDARDS

General Design	ASME B16.34 / API6D
Construction	Cast steel bolted 3pcs body
Features	Full port, Teflon seats Blow-out proof stem ISO Mounting Pad Locking handle
Fire Safe Design	API 607 / API 6FA
Pressure Ratings	2000PSI Working Pressure
Connection	Threaded NPT to ASME B1.20.1 Socket Weld to ASME B16.1.1



STANDARD PARTS & MATERIAL

No.	Parts	Carbon Steel 3FA1C20	Stainless Steel 3FA18M20
1	Body	A216 WCB	A351 CF8M
2	Ball	A351-CF8M	
3	Seat	RTFE	
4	Stem	SS 316	
5	Stem Seal	PTFE	

Other valve material composition are available.

Port	Size (In)	Bore Size	End to End (L)	Center to Lever (H)	Length of Handle (mm)
FULL BORE	1/4	11.0 (0.43)	65 (2.56)	58 (2.28)	104
	3/8	12.5 (0.49)	65 (2.56)	58 (2.28)	104
	1/2	16.0 (0.63)	75 (2.95)	62 (2.44)	104
	3/4	20.0 (0.79)	80 (3.15)	66 (2.60)	104
	1	25.0 (0.98)	90 (3.54)	75 (2.95)	112
	1.1/4	32.0 (1.26)	110 (4.33)	80 (3.15)	135
	1.1/2	38.0 (1.50)	120 (4.72)	95 (3.74)	180
	2	50.0 (1.97)	140 (5.51)	104 (4.09)	250

Unit : mm (inch)

SPECIFICATION

MANUFACTURING STANDARDS

General Design	ASME/ANSI B16.34
Construction	Investment Cast / Bar stock Body
Features	Soft or metal seat Bonnet with locking pin O-ring seal
Fire Safe Design	API 6FA
Ratings	6000 PSI / 10000 PSI
Connection	Threaded ASME B1.20.1 Male / Female x Female NPT

STANDARD PARTS & MATERIAL

No.	Parts	6000 WOG Series NA28M60	10000 WOG Series NA28M100
1	Body	SS 316	
2	Bonnet	SS 316	
3	Stem	SS 316 / NITRONIC 60	
4	Seat	DELTRIN / PEEK / SS 316	SS 316
5	Stem Seal	PTFE	
6	Stem Packing	NYLON	
7	O-ring	VITON	

Other valve material composition are available.

6000 PSI WOG	Port	Size (In)	Bore Size	End to End (L)	Center to Lever (H)	Length of Handle (mm)
	FULL BORE	1/4	4.7 (0.19)	50.8 (2.00)	83.5 (3.29)	65
		1/2	7.0 (0.28)	63.5 (2.50)	96.8 (3.81)	91
		3/4	9.5 (0.37)	75.0 (2.95)	114.0 (4.49)	100
		1	11.8 (0.46)	100.0 (3.94)	133.9 (5.27)	120

Unit : mm (inch)



10000 PSI WOG	Port	Size (In)	Bore Size	End to End (L)	Center to Lever (H)	Length of Handle (mm)
	FULL BORE	1/4	4.8 (0.19)	73.2 (2.89)	78.6 (3.09)	72
		1/2	4.8 (0.19)	73.2 (2.89)	78.6 (3.09)	72

Unit : mm (inch)

