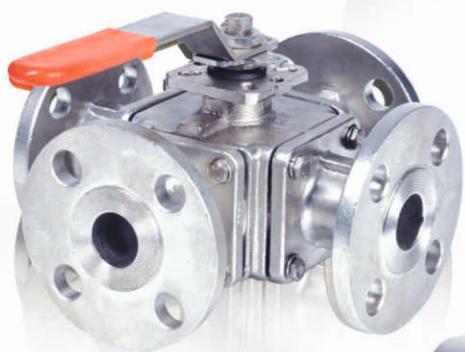
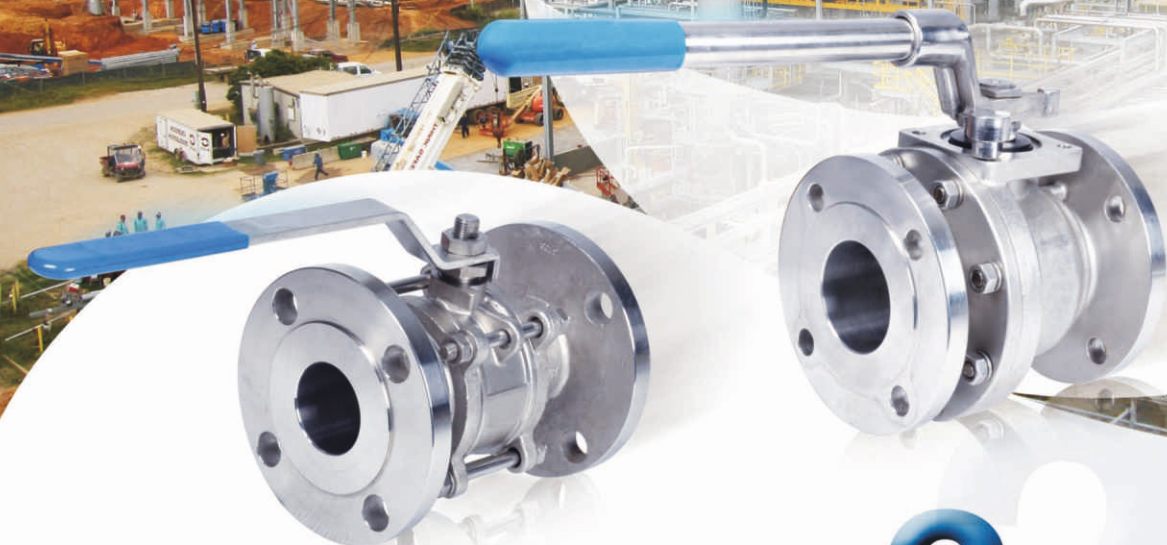


4Matic



2 Way
3 Way
4 Way

**Ball Valves
Screwed / Flanged**

4Matic Hand Lever & Gear Operated Metal Seated Ball Valve designed for using in the severe conditions such as high temperature and high friction fluid like abrasive fluids of Oil and Gas, Petroleum, Petrochemical, Chemical Power Generation, Pulp and Paper Mining Industry.

Size Range : 1/2" to 4" Screwed / Flanged

Standard

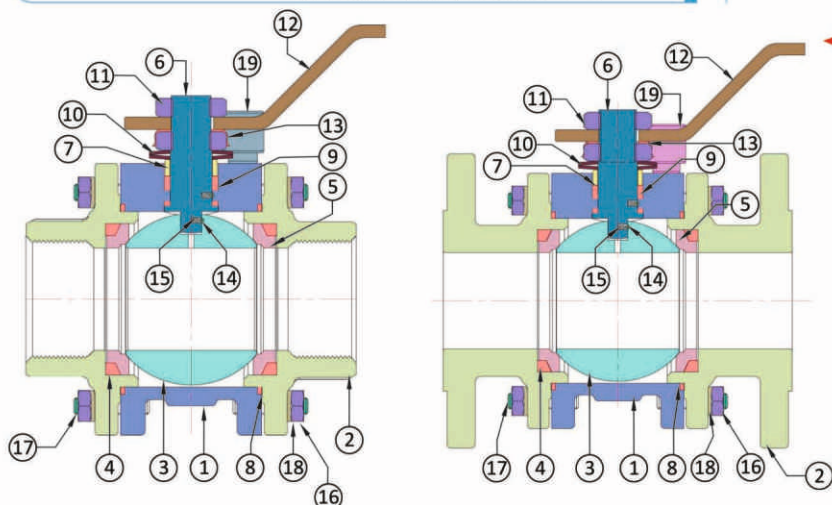
Design And Manufacturing : BS EN ISO 17292
Valve Face To Face Dimension : ASME B 16.10
Flange Standard Conformity : ASME B 16.5 Class 150,
Inspection & Testing : API 598 / FCI - 702 / BS EN 12266 - 1



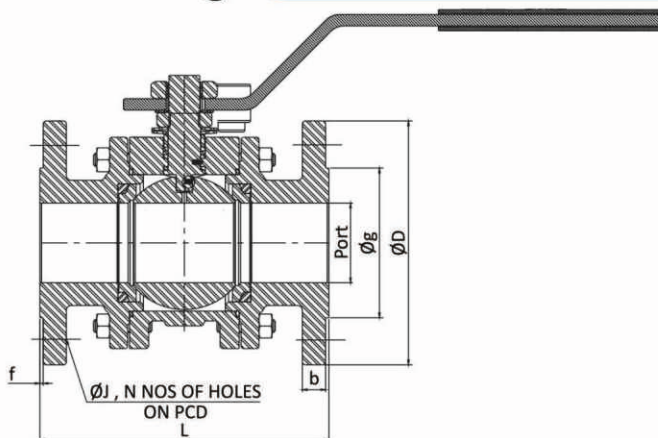
Fire Safe Design Available

Features :

- Metal Seated Ball Valves are inherently fire safe design
- Metal anti-static by nature of the metal to metal contact
- Harden face treatment on ball and seats provides the longer life cycle in Cryogenic environment
- Advanced seat structure and high precision ball preparation can Ensure Sealing performance and reduce the operation torque
- Highly precise machining enables the ball and seat tight shut-off
- Suitable for temperature range -50°C to 500°C



No.	Description	Material	Qty.
01	Body	WCB / CF8 / CF8M	01
02	End Connector	WCB / CF8 / CF8M	02
03	Ball	CF8 / CF8M	01
04	Ball Back	CFT	02
05	Ball Seat	AISI 304 / 316	02
06	Stem Pin	AISI 304 / 316	01
07	Spacer Ring	AISI 304 / 316	01
08	Body Seat	CFT02	02
09	Stem Seat	CFT04	04
10	Disc Spring	Spring Steel	02
11	Stem Nut	S. S. 304	02
12	Handle	M.S. / S.S.	01
13	Lock Washer	S. S. 304	01
14	Antistatic Ball	S. S. 304	02
15	Antistatic Spring	S. S. 304	02
16	Fitting Nut	H.T. / S. S. 304	08
17	Fitting Stud	H.T. / S. S. 304	04
18	Spring Washer	H.T. / S. S. 304	08
19	Stopper Pin	M.S. / S. S. 304	01



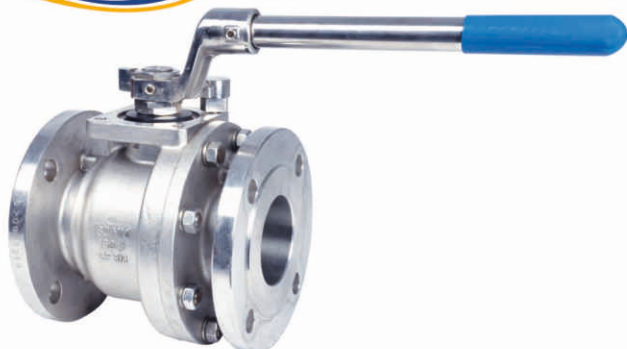
Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		Screwed		Flanged 150#									Weight (Approx)
	MM	Inch	L	Weight Approx.	L1	b	f	Port	Øg	ØD	ØJ	N	K:PCD	
A4MV - 15	15	1/2"	71	1.550	108	8	2	13	34.9	90	15.9	4	60.3	1.600
A4MV - 20	20	3/4"	94	1.880	117	8.9	2	19	42.9	100	15.9	4	69.9	2.400
A4MV - 25	25	1"	108.5	2.720	127	9.6	2	25	50.8	110	15.9	4	79.4	3.500
A4MV - 32	32	1.1/4"	116	3.950	140	11.2	2	32	63.5	115	15.9	4	88.9	5.000
A4MV - 40	40	1.1/2"	128	5.200	165	12.7	2	38	73	125	15.9	4	98.4	7.000
A4MV - 50	50	2"	158	9.100	178	14.3	2	49	92.1	150	19.05	4	120.7	11.200
A4MV - 65	65	2.1/2"	185	13.100	190	15.9	2	62	104.8	180	19.05	4	139.7	17.500
A4MV - 80	80	3"	205	15.100	203	17.5	2	74	127	190	19.05	4	152.4	20.00
A4MV - 100	100	4"	216	25.000	229	22.3	2	100	157.2	230	19.05	8	190.5	33.00

Note : 300 & 600 Class Dimension are on request.

4Matic offers Hand Lever & Gear Operated "FIRE SAFE" Two Piece Design Ball Valve, engineered for multiple ON/OFF operations in the highly inflammable fluids.

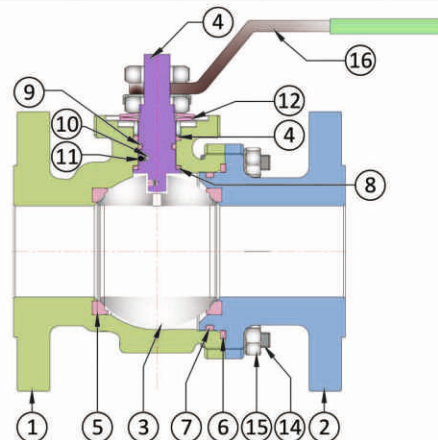


Standard

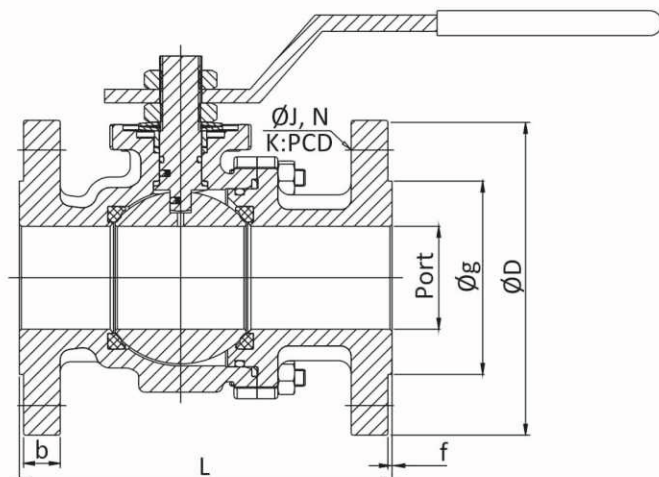
Design And Manufacturing : BS 5351 / BS EN ISO 17292
Valve Face To Face Dimension : ASME B 16.10
Flange Standard Conformity : ASME B 16.5 Class 150, 300
Inspection & Testing : API 598 / FCI - 70-2 / BS EN 12266 - 1
Fire Safe Test : API 6 FA / FCI - 70-2

Size Range : 1/2" to 14" Flanged 150# & 300#

Item	Type of Test	Testing Pressure	Working Pressure	Operating Temperature (High Temp. On Request)
Valve Body Flanged 150#	Hydraulic	450 PSIG	315 PSIG	Max.180 °C
Valve Body Flanged 300#	Hydraulic	1125 PSIG	815 PSIG	Max.180 °C



No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	1
2	Flange End Connector	WCB / CF8 / CF8M	1
3	Ball	CF8 / CF8M	1
4	Stem Pin	AISI 304 / 316	1
5	Ball Seat	PTFE / CFT / GFT / PEEK	2
6	Body Seat	Grafoil	1
7	Conn. - O-Ring	NBR / EPDM / Viton	1
8	Stem Seat Bottom	PTFE	1
9	Stem O-Ring	NBR / EPDM / Viton	1
10	Antistatic Spring	S.S. 202	2
11	Antistatic Ball	S. S. 304	2
12	Disc Spring	Spring Steel	2
13	Stem & Handle Nut	S. S. 304	2
14	Fitting Stud	H.T. / S. S. 304	6
15	Fitting Nut + Spring Washer	H.T. / S. S. 304	6
16	Handle	M.S. / S.S.	1



Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		Flanged 150#										Weight (Approx)	Flanged 300#										Weight (Approx)
	MM	Inch	L	b	f	Port	Øg	ØD	ØJ	N	K:PCD	L		b	f	Port	Øg	ØD	ØJ	N	K:PCD			
4MVGO - 15	15	1/2"	108	8	2	13	34.9	90	15.9	4	60.3	2.150	140	12.7	2	13	34.9	95	15.9	4	66.7	3.100		
4MVGO - 20	20	3/4"	117	8.9	2	19	42.9	100	15.9	4	69.9	3.000	152	14.3	2	19	42.9	115	19.05	4	82.6	3.900		
4MVGO - 25	25	1"	127	9.6	2	25	50.8	110	15.9	4	79.4	4.100	165	15.9	2	25	50.8	125	19.05	4	88.9	5.400		
4MVGO - 32	32	1 1/4"	140	11.2	2	32	63.5	115	15.9	4	88.9	---	178	17.5	2	32	63.5	135	19.05	4	98.4	7.200		
V4MGO - 40	40	1 1/2"	165	12.7	2	38	73	125	15.9	4	98.4	7.000	190	19.1	2	38	73	155	22.2	4	114.3	9.720		
4MVGO - 50	50	2"	178	14.3	2	49	92.1	150	19.05	4	120.7	9.200	216	20.7	2	49	92.1	165	19.05	8	127	11.680		
4MVGO - 65	65	2 1/2"	190	15.9	2	62	104.8	180	19.05	4	139.7	13.800	241	23.9	2	62	104.8	190	22.2	8	149.2	20.500		
4MVGO - 80	80	3"	203	17.5	2	74	127	190	19.05	4	152.4	20.300	282	27	2	74	127	210	22.2	8	168.3	29.240		
4MVGO - 100	100	4"	229	22.3	2	100	157.2	230	19.05	8	190.5	29.200	305	30.2	2	100	157.2	255	22.2	8	200	48.380		
4MVGO - 125	125	5"	254	22.3	2	125	185.7	255	22.2	8	215.9	---	381	33.4	2	125	185.7	280	22.2	8	235	----		
4MVGO - 150	150	6"	267	23.9	2	150	215.9	280	22.2	8	241.3	64.000	403	35	2	150	215.9	320	22.2	12	269.9	90.260		
4MVGO - 200	200	8"	457	27	2	201	269.9	345	22.2	8	298.5	151.00	500	39.7	2	201	269.9	380	25.4	12	330.2	188.00		
4MVGO - 250	250	10"	534	28.6	2	252	323.8	405	25.4	12	362	---	568	46.1	2	252	323.8	445	28.6	16	387.4	----		
4MVGO - 300	300	12"	610	30.2	2	303	381	485	25.4	12	431.8	---	648	49.3	2	303	381	520	31.75	16	450.8	----		
4MVGO - 350	350	14"	--	33.4	2	334	412.8	535	28.6	12	476.3	---	--	52.4	2	334	412.8	585	31.75	20	514.4	----		

Note : Size 1/2" to 4" weight are Handle Operated & Size 6" & 8" Weight are Gear Operated .

1003

Hand Lever Operated "WOG - 3000" High Pressure Ball Valve

4Matic

4Matic offers WOG Manual Hand Lever Operated Low Torque High Pressure Ball Valve. Locking arrangement & Actuator Mounting Pad.

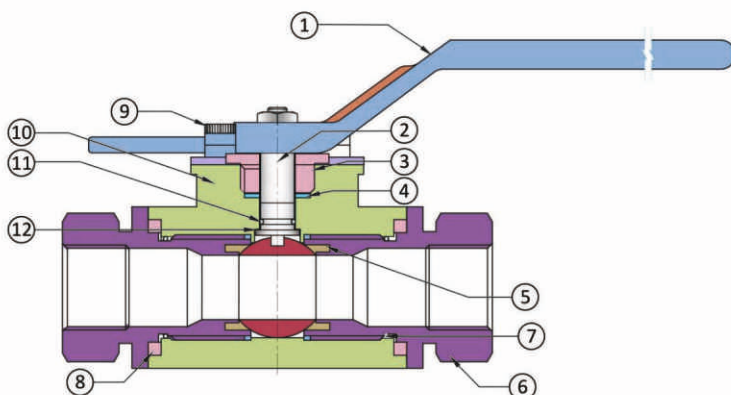
Size Range : 1/2" to 2" Screwed

Features :

- Low Torque
- High Pressure with High Temperature Seals
- Locking Arrange for Security Purpose
- In built Mounting Pad for Pneumatic Actuator

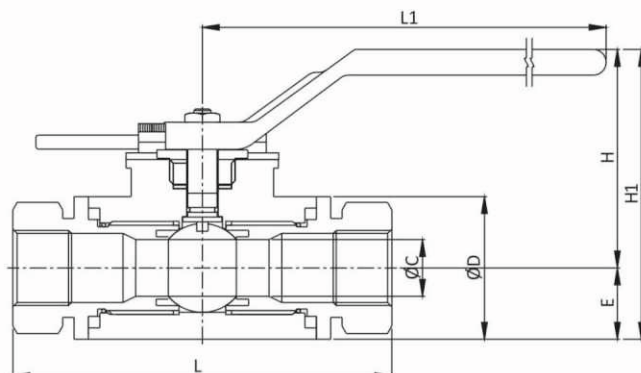
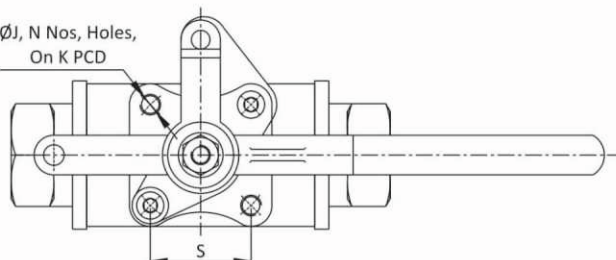


Item	Type of Test	Testing Pressure	Working Pressure	Temperature
Valve Body Screwed End	Hydraulic	300 Kg	200 Kg	150 °C



No.	Description	Material	Qty.
1	Handle	WCB / CF8 / CF8M	01
2	Stem Pin	S. S. 304 / S. S. 316	01
3	Spacer Ring	S. S. 304 / S. S. 316	01
4	Stem Seat	S. S. 304 / S. S. 316	01
5	Ball Seat	Peek / Polyacetal	02
6	End Connector	WCB / CF8 / CF8M	02
7	'O' Ring	NBR / EPDM / Viton	02
8	Body Seat	Graphite	01
9	Fitting Stud	H.T. / CF8	01
10	Body	WCB / CF8 / CF8M	01
11	'O' Ring	NBR / EPDM / Viton	01
12	Gland Packing	Peek / Polyacetal	01

ØJ, N Nos, Holes,
On K PCD



Dimensions :

(All Dimensions are in mm)

Valve Model	Size		L1	L	H	ØC	ØD	□S	ØJ	N	PCD	Weight (Approx.)
	MM	Inch										
4MWOG - 15	15	1/2"	160	98	75	12.7	39	25.4	M5X0.8	4	36	1.330
4MWOG - 20	20	3/4"	205	108	90	17.5	48	31	M6X1	4	42	1.440
4MWOG - 25	25	1"	205	108	96	22.3	55.5	31	M6X1	4	42	2.100
4MWOG - 32	32	1.1/4"	255	133	124	31.8	76.5	35.3	M6X1	4	51.5	4.850
4MWOG - 40	40	1.1/2"	255	133	124	31.8	76.5	35.3	M6X1	4	51.5	4.280
4MWOG - 50	50	2"	255	159	125	38.1	89.5	35.36	M6X1	4	51.5	7.420



4Matic 2 Way Ball Valves are design to suit a wide range of applications including mobile plant and industries equipment. Standard valves are intended for use on Hydraulic Mineral Oil. Stainless Steel Valves are available for use in corrosive environments and / or operation with corrosive fluids.



Size Range : 1/4" to 1"

Features :

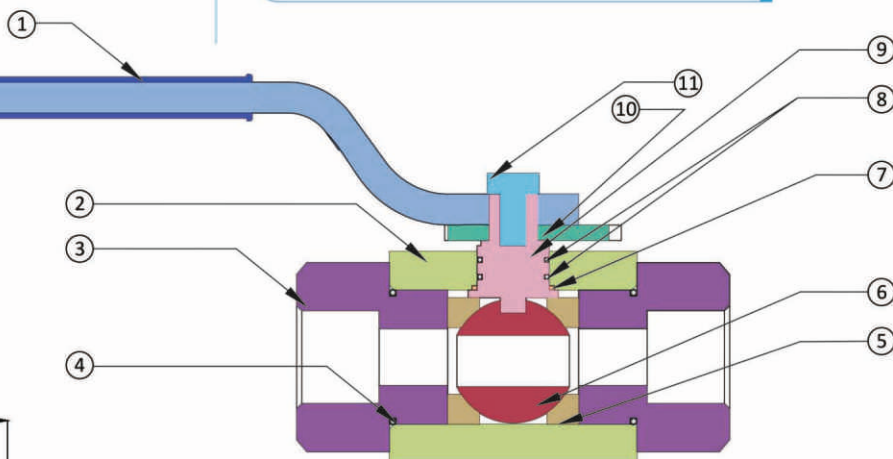
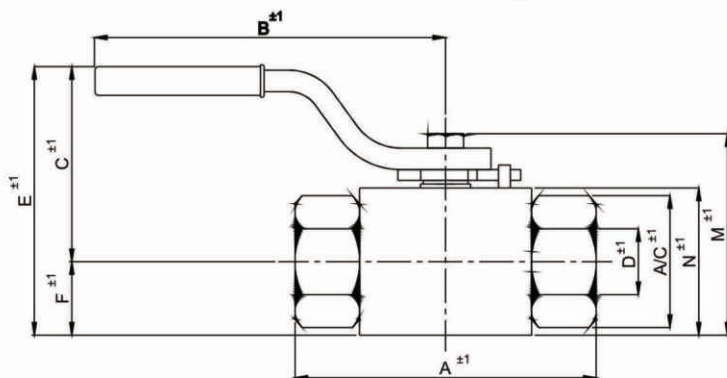
- Full bore valves provide an unrestricted flow path for negligible pressure drop.
- Floating ball on pre-compressed seals minimises wear and provides an excellent seal at positive and negative pressure.
- Operating temperature from -20 °C to 150 °C
- Open to close in 1/4 turn (90°)

Stainless Steel Valves

Body and Ball in 316 Stainless Steel for use in the Food, Chemical and Pharmaceutical Industries. A variety of special seals can be provided to comply with the stringent specifications required by these applications.

TECHNICAL SPECIFICATION

PRESSURE	AS PER TABLE**
TEMPERATURE	-20°C to 150 °C
MEDIA	AIR, WATER, OIL & GAS



No.	Description	Material	Qty.
1	Handle	Steel Powder Coated	01
2	Body	Forged Carbon / S.S. 304 / S.S. 316	01
3	End Connection	Forged Carbon / S.S. 304 / S.S. 316	02
4	'O' Ring	NBR / EPDM / Viton / Peek	02
5	Ball Sheet	Peek / Peak / Polyacetal	02
6	Ball	S.S. 304 / S.S. 316	01
7	Gland Packing	Peek / Peak / Polyacetal	01
8	'O' Ring	NBR / EPDM / Viton	02
9	Stem	S.S. 304 / S.S. 316	01
10	Stopper	Steel Powder Coated	01
11	Bolt	S. Steel	01

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		**Max. W.P. Kg/cm2	A	B	C	D Bore	E	F	A/C	N	M	Weight Approx
	MM	Inch											
A4-HP2W-BV-6	6	1/4"	700	65	125	55	6	70	15	31.8	39	56.5	0.540
A4-HP2W-BV-10	10	3/8"	500	84	145	60	10	70	20	36	46	65.5	1.070
A4-HP2W-BV-15	15	1/2"	500	84	145	65	15	80	20	36	46	63	1.030
A4-HP2W-BV-20	20	3/4"	500	95	195	85	20	110	25	51.5	61.5	87	2.040
A4-HP2W-BV-25	25	1"	325	107	195	85	25	110	25	57.5	67	91	2.580

4Matic 3 Way ball valves are designed to suit a wide range of applications including mobile plant and industrial equipment. Standard valves are intended for use on hydraulic mineral oil. Stainless steel valves are available for use in corrosive environments and/or operation with corrosive fluids.

Size Range : 1/2" to 1.1/2"

Features :

- Full bore valves provide an unrestricted flow path for negligible pressure drop.
- Floating ball on pre-compressed seals minimises wear and provides an excellent seal at positive and negative pressure.
- Operating temperature from -20 °C to 150 °C
- Open to close in 1/4 turn (90°)

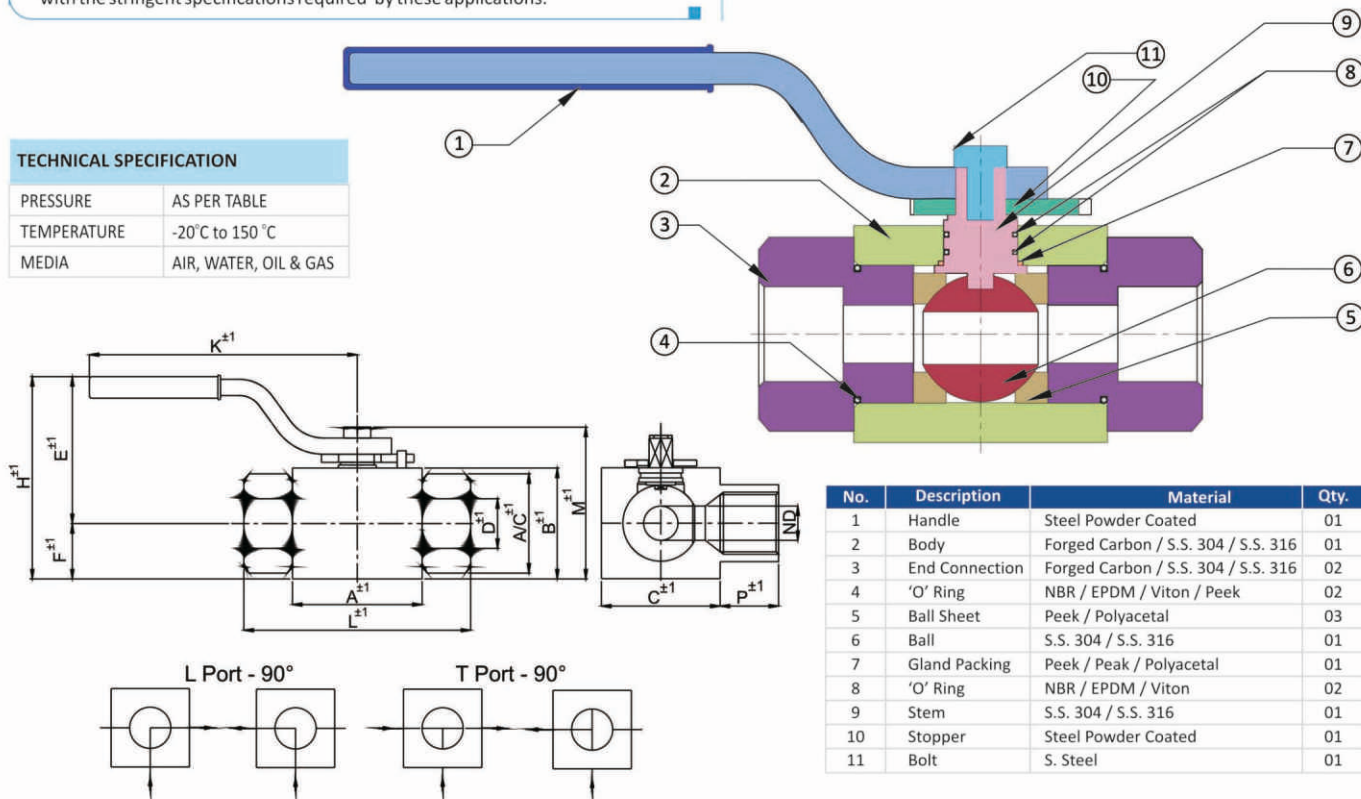
Stainless Steel Valves

Body and Ball in 316 Stainless Steel for use in the Food, Chemical and Pharmaceutical Industries. A variety of special seals can be provided to comply with the stringent specifications required by these applications.



TECHNICAL SPECIFICATION

PRESSURE	AS PER TABLE
TEMPERATURE	-20°C to 150 °C
MEDIA	AIR, WATER, OIL & GAS



No.	Description	Material	Qty.
1	Handle	Steel Powder Coated	01
2	Body	Forged Carbon / S.S. 304 / S.S. 316	01
3	End Connection	Forged Carbon / S.S. 304 / S.S. 316	02
4	'O' Ring	NBR / EPDM / Viton / Peek	02
5	Ball Sheet	Peek / Polyacetal	03
6	Ball	S.S. 304 / S.S. 316	01
7	Gland Packing	Peek / Peek / Polyacetal	01
8	'O' Ring	NBR / EPDM / Viton	02
9	Stem	S.S. 304 / S.S. 316	01
10	Stopper	Steel Powder Coated	01
11	Bolt	S. Steel	01

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		ND	A	B	C	A/C	H	K	L	M	P	E	F	D	Weight Approx
	MM	Inch														
A4-HP3W-BV-15	15	1/2"	13	48.2	45.5	40.5	36.5	83	148	83.5	65	19	60	23	11.5	1.060
A4-HP3W-BV-20	20	3/4"	20	61	61.5	51	52.5	98	195	96	65	24.5	71	27	19.3	2.210
A4-HP3W-BV-25	25	1"	25	71.5	68.5	60	58	113	195	107.5	96	23.5	83	30	24.6	2.900
A4-HP3W-BV-32	32	1.1/4"	25	91.5	90	80	80	146	230	130.5	123	32.5	106	40	36	6.150
A4-HP3W-BV-40	40	1.1/2"	25	91.5	90	80	80	146	230	130.5	123	32.5	106	40	36	5.800

4Matic offers Hand Lever Operated Investment Casting WCB / CF8 / CF8M Wafer Ball Valve Two Piece Design.

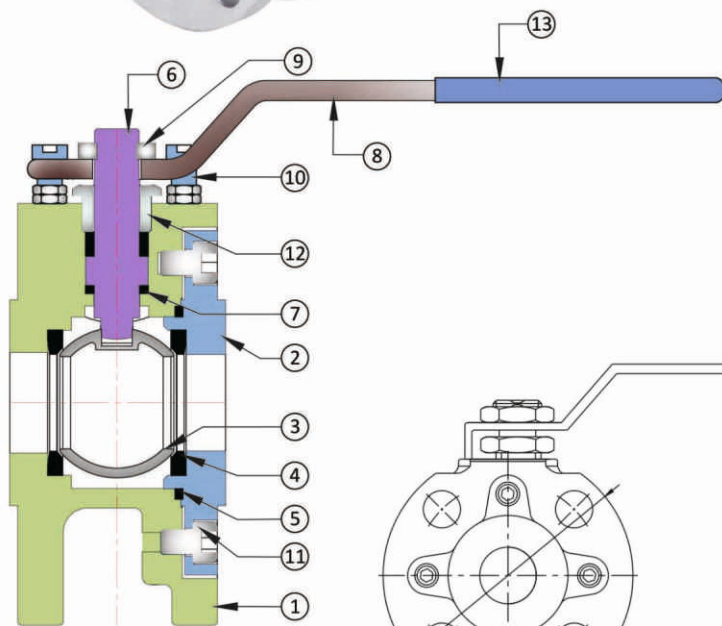


Size Range : 1" to 4" Wafer Type

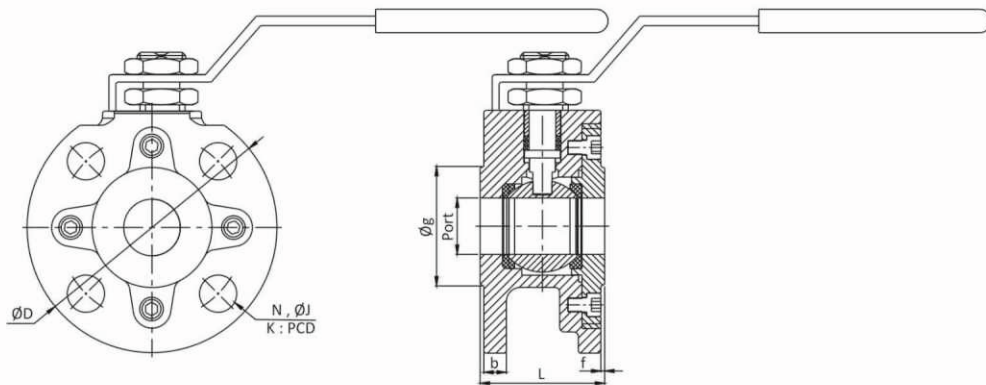
Item	Type of Test	Testing Pressure	Working Pressure	Operating Temperature (High Temp. On Request)
Valve Body Flanged 150#	Hydraulic	450 PSIG	315 PSIG	Max.180 °C

Standard

Design And Manufacturing	: ASME B 16.34 / API 6D
Valve Face To Face Dimension	: As Per Manufacturer
Flange Standard Conformity	: ASME B 16.5 Class 150
Inspection & Testing	: API 598 / FCI - 70-2 / BS EN 12266 - 1



No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	1
2	Connector	WCB / CF8 / CF8M	1
3	Ball	CF8 / CF8M	1
4	Ball seat	PTFE / GFT / CFT / PEEK	2
5	Body Seat	PTFE / GFT / CFT / PEEK	1
6	Stempin	AISI 304 / 316	1
7	Stem Seat	PTFE	4
8	Handle	M.S. / S.S.	1
9	Handle Nut	ASTM A 193	1
10	Handle Stopper	S.S.	2
11	Allen Bolt	ASTM A 193	4
12	Lock Nut	CF8	1
13	Handle Sleeve	PVC Grip	1



Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		L	b	f	Port	øg	øD	øJ	N	PCD	Weight
	MM	Inch										
4WFB - 25	25	1"	54	9.6	2	25	50.8	107.9	15.88	4	79.4	1.940
4WFB - 32	32	1.1/4"	58.5	11.2	2	32	63.50	115	15.88	4	88.9	2.900
4WFB - 40	40	1.1/2"	63	12.7	2	38	73	127	15.88	4	98.4	3.080
4WFB - 50	50	2"	73	14.3	2	49	91.95	152.4	19.05	4	120.7	4.900
4WFB - 65	65	2.1/2"	96	15.9	2	62	104.65	177.8	19.05	4	139.7	8.560
4WFB - 80	80	3"	118	17.5	2	74	127	190.5	19.05	4	152.4	11.140
4WFB - 100	100	4"	140	22.3	2	100	157.2	230	19.05	8	190.5	18.240

1007

Hand Lever Operated Jacketed Type Ball Valve

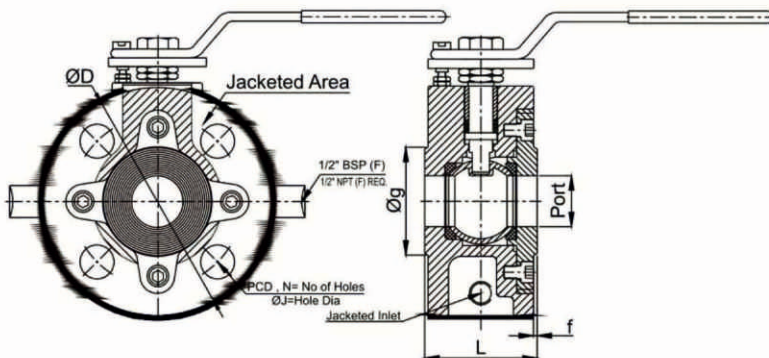
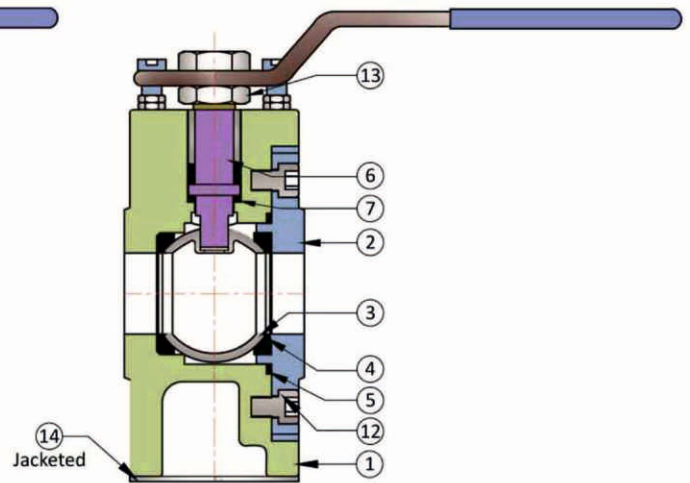
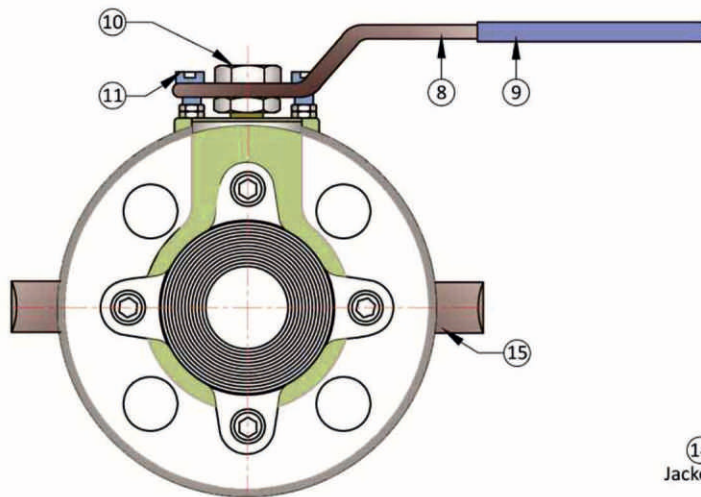
4Matic

4Matic offers Hand Lever Operated Investment Casting WCB / CF8 / CF8M / Ball Valve in 2 Piece Design Wafer Type JACKETED- engineered for multiple ON / OFF operations in the down stream

Size Range : 1" to 4"

Standard

Design And Manufacturing : ASME B 16.34 / API 6D
 Valve Face To Face Dimension : As Per Manufacturer
 Flange Standard Conformity : ASME B 16.5 Class 150, 300
 Inspection & Testing : API 6D / FCI - 70-2 / BS EN 12266 - 2



No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	1
2	Connector	WCB / CF8 / CF8M	1
3	Ball	CF8 / CF8M	1
4	Ball seat	PTFE / GFT / CFT / PEEK	2
5	Body Seat	PTFE / GFT / CFT / PEEK	1
6	Stern Pin	AISI 304 / 316	1
7	Stern Seat	PTFE	4
8	Handle	M.S. / S.S.	1
9	Handle Sleeve	PVC Grip	1
10	Handle Nut	S.S.	1
11	Handle Stopper	S.S.	2
12	Allen Bolt	S.S.	4
13	Lock Nut	S.S.	1
14	Jacket	S.S. / M.S.	1
15	Coupling	S.S. / M.S.	2

Dimensions :

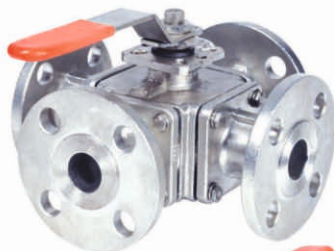
(All Dimensions are in mm)

Valve Model	Valve Size		Port	L	ØD	Øg	ØJ	N	f	PCD	Weight (Approx.)
	MM	Inch									
4WFX - 25	25	1"	25	54	107.9	50.8	15.88	4	2	79.4	2.500
4WFX - 32	32	1.1/4"	32	58.5	115	63.50	15.88	4	2	88.9	3.300
4WFX - 40	40	1.1/2"	38	63	127	73	15.88	4	2	98.4	3.960
4WFX - 50	50	2"	49	73	152.4	92.1	19.05	4	2	120.7	5.940
4WFX - 65	65	2.1/2"	62	96	177.8	104.8	19.05	4	2	139.7	10.800
4WFX - 80	80	3"	74	118	190.5	127	19.05	4	2	152.4	13.620
4WFX - 100	100	4"	100	140	230	157.2	19.05	8	2	190.5	22.900



4Matic offers Hand Lever & Gear Operated "Three Way - Four Way" Design Investment Casting CF8 / CF8M / WCB Ball Valve, engineered for multiple Diverting / Mixing Operations in the down stream. TYPE : "T" . PORT / "L" . PORT / "X" . PORT In Full Bore / Reduce Bore

High Pressure
upto 500 Kg
available
on request



Size Range : 1/2" to 6" Screwed / Flanged / Triclover / Socket Weld

Standard

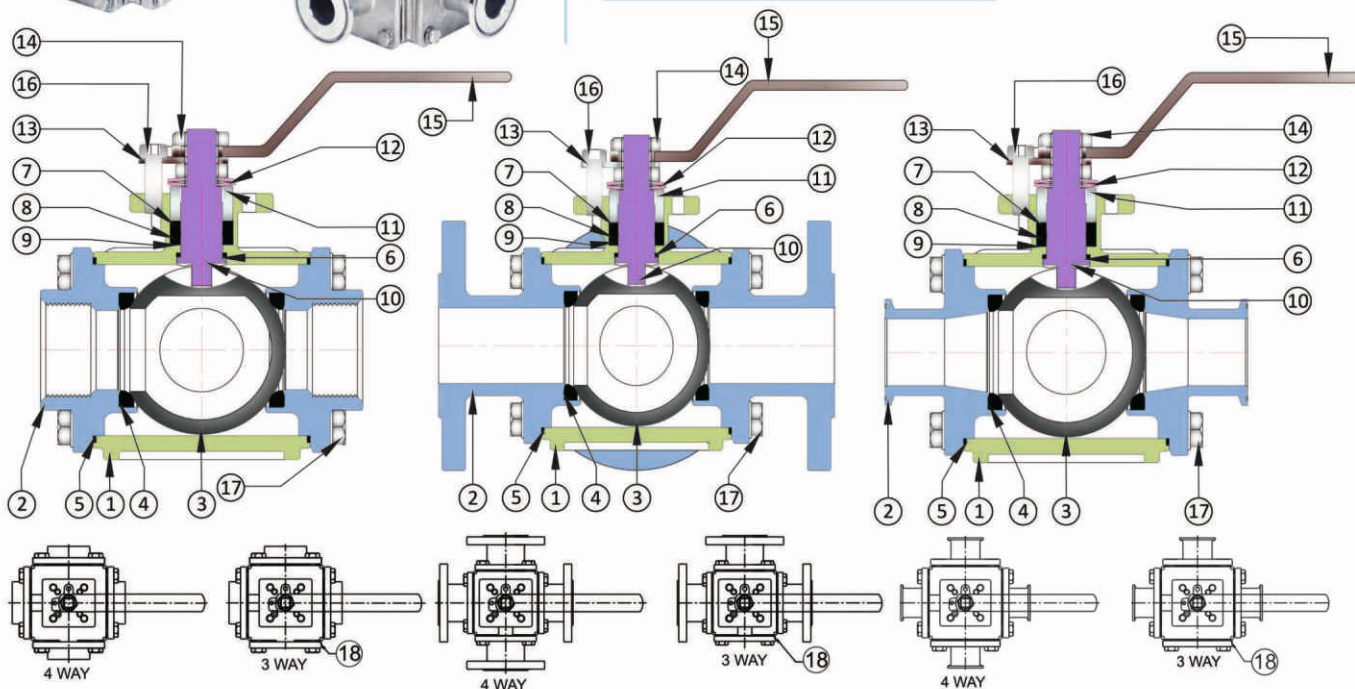
Design And Manufacturing : ASME B 16.34 / API 6D
Valve Face To Face Dimension : As Per Manufacturer
Flange Standard Conformity : ASME B 16.5 Class 150, 300
Inspection & Testing : API 598 / FCI - 702 / BS EN 12266 - 1

Features :

- Body & End are investment Cast
- Self adjusting stem packing
- Available in 3 way & 4 way & 5 way L - port/T port/X port
- 4 piece ball seats
- Blow - out proof stem design anti blow - out proof stem design

TECHNICAL SPECIFICATION

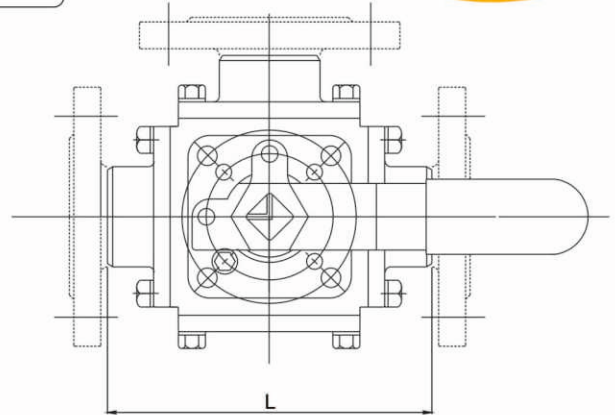
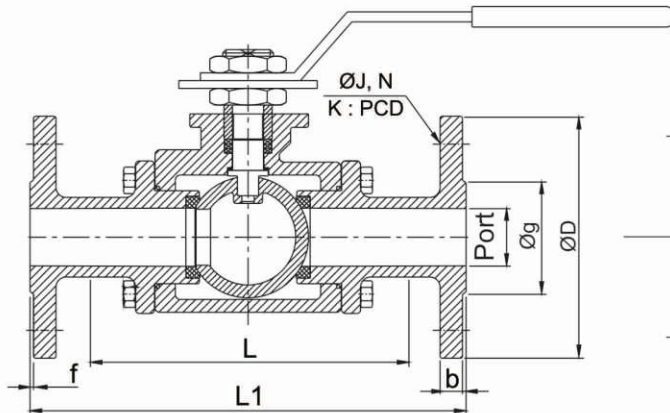
PRESSURE	ASME 150 / ASME 300 PN 16, PN 25, PN 40
TEMPERATURE	-25°C TO 180 °C



No.	Description	Material	3 way Qty.	4 way Qty.
1	Body	WCB / CF8 / CF8M	01	01
2	Screw End Connection	WCB / CF8 / CF8M	03	04
3	Ball	CF8 / CF8M	01	01
4	Ball Seat	PTFE / GFT	04	04
5	Body Seat	PTFE / GFT	04	04
6	Stem Packing	PTFE	01	01
7	U - Seat	PTFE	01	01
8	V - Seat	PTFE	02	02
9	Base Seat	PTFE	01	01
10	Stem Pin	S.S. 304	01	01
11	Gland Spacer Washer	S.S. 304	01	01
12	Disc Washer	S.S. 304	01	01
13	Platter	S.S. 304	01	01
14	Handle Nut	S.S. 304	02	02
15	Handle	S.S. 304	01	01
16	Handle Stopper	S.S. 304	01	01
17	Body Fitting	S.S. 304	16	16
18	Hex Bolt + Washer	Hex Bolt + Washer	01	01
18	Blind End Connection	CF8 / CF8M	01	----

No.	Description	Material	3 way Qty.	4 way Qty.
1	Body	WCB / CF8 / CF8M	01	01
2	Flange End Connection	WCB / CF8 / CF8M	03	04
3	Ball	CF8 / CF8M	01	01
4	Ball Seat	PTFE / GFT	04	04
5	Body Seat	PTFE / GFT	04	04
6	Stem Packing	PTFE	01	01
7	U - Seat	PTFE	01	01
8	V - Seat	PTFE	02	02
9	Base Seat	PTFE	01	01
10	Stem Pin	S.S. 304	01	01
11	Gland Spacer Washer	S.S. 304	01	01
12	Disc Washer	S.S. 304	01	01
13	Platter	S.S. 304	01	01
14	Handle Nut	S.S. 304	02	02
15	Handle	S.S. 304	01	01
16	Handle Stopper	S.S. 304	01	01
17	Body Fitting	S.S. 304	16	16
18	Hex Bolt + Washer	Hex Bolt + Washer	01	01
18	Blind End Connection	CF8 / CF8M	01	----

No.	Description	Material	3 way Qty.	4 way Qty.
1	Body	WCB / CF8 / CF8M	01	01
2	TC End Connection	WCB / CF8 / CF8M	03	04
3	Ball	CF8 / CF8M	01	01
4	Ball Seat	PTFE / GFT	04	04
5	Body Seat	PTFE / GFT	04	04
6	Stem Packing	PTFE	01	01
7	U - Seat	PTFE	01	01
8	V - Seat	PTFE	02	02
9	Base Seat	PTFE	01	01
10	Stem Pin	S.S. 304	01	01
11	Gland Spacer Washer	S.S. 304	01	01
12	Disc Washer	S.S. 304	01	01
13	Platter	S.S. 304	01	01
14	Handle Nut	S.S. 304	02	02
15	Handle	S.S. 304	01	01
16	Handle Stopper	S.S. 304	01	01
17	Body Fitting	S.S. 304	16	16
18	Hex Bolt + Washer	Hex Bolt + Washer	01	01
18	Blind End Connection	CF8 / CF8M	01	----

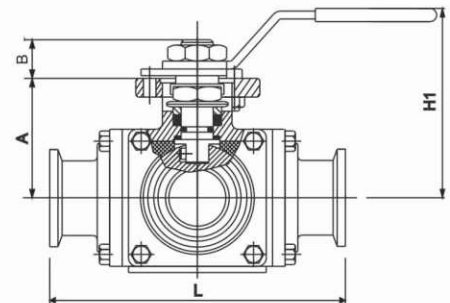
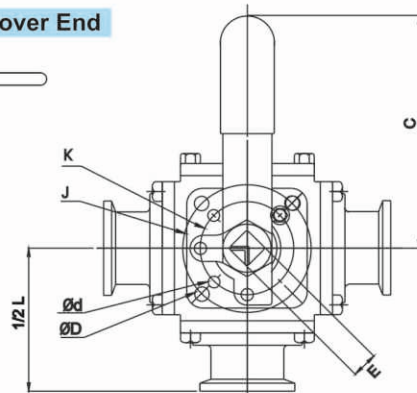
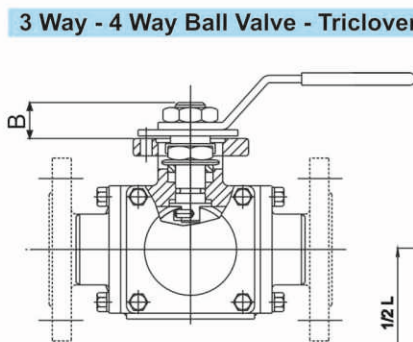


Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		Screwed		Flanged 150#										Weight (Approx)	Flanged 300#										K:PCD
	MM	Inch	L	Weight	L1	b	f	Port	Øg	ØD	ØJ	N	K:PCD	L1		b	f	Port	Øg	ØD	ØJ	N	K:PCD			
A4V-3100-15	15	1/2"	104	2.250	151	8	2	13	34.9	88	4	15.9	60.3	4.440	160	12.7	2	13	34.9	95	15.9	4	66.7			
A4V-3100-20	20	3/4"	112	3.050	165	8.9	2	19	42.9	98	4	15.9	69.9	5.800	177	14.3	2	19	42.9	115	19.05	4	82.6			
A4V-3100-25	25	1"	130	4.350	192	9.6	2	25	50.8	110	4	15.9	79.4	7.650	202	15.9	2	25	50.8	125	19.05	4	88.9			
A4V-3100-32	32	1.1/4"	141	5.050	211	11.2	2	32	63.5	115	4	15.9	88.9	—	208	17.5	2	32	63.5	135	19.05	4	98.4			
A4V-3100-40	40	1.1/2"	159	10.100	218	12.7	2	38	73	125	4	15.9	98.4	15.600	234	19.1	2	38	73	155	22.2	4	114.3			
A4V-3100-50	50	2"	192	16.500	253	14.3	2	49	92.1	150	4	19.05	120.7	26.450	274	20.7	2	49	92.1	165	19.05	8	127			
A4V-3100-65	65	2.1/2"	297	----	295	15.9	2	64	104.8	180	4	19.05	139.7	35.200	300	23.9	2	62	104.8	190	22.2	8	149.2			
A4V-3100-80	80	3"	304	----	306	17.5	2	76	127	190	4	19.05	152.4	46.300	327	27	2	74	127	210	22.2	8	168.3			
A4V-3100-100	100	4"	324	----	371	22.3	2	98	157.2	230	8	19.05	190.5	80.050	395	30.2	2	100	157.2	255	22.2	8	200			
A4V-3100-125	125	5"	—	----	—	22.3	2	125	185.7	255	8	22.2	215.9	82.100	—	33.4	2	125	185.7	280	22.2	8	235			
A4V-3100-150	150	6"	--	----	428	23.9	2	150	215.9	280	8	22.2	241.3	----	468	35	2	150	215.9	320	22.2	12	269.9			

3 Way - 4 Way Ball Valve - Triclover End



Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		A	B	C	Ed	ED	H1	K	J	E	Port	L
	MM	Inch											
A4V-T3100-15	15	1/2"	41	11	125	6.0	0.6	67.0	36	42	9	12.5	133
A4V-T3100-20	20	3/4"	49	14	160	6.0	7.1	80.8	42	50	11	17	140
A4V-T3100-25	25	1"	55	14	160	6.0	7.1	87.5	42	50	11	22	160
A4V-T3100-40	40	1.1/2"	74	18	205	7.1	9.2	114	50	70	14	35	183
A4V-T3100-50	50	2"	93	23	325	9.2	11.4	140	70	102	17	47	217
A4V-T3100-65	65	2.1/2"	73.5	25	-	-	11.5	250	-	102	22	-	-
A4V-T3100-80	80	3"	81.5	25	-	-	11.5	285	-	102	22	-	-
A4V-T3100-100	100	4"	99.5	25	-	-	11.5	330	-	102	22	-	-

4Matic offers Gear Operated "Three Way - Four Way" Design SAND CASTING CF8 / CF8M / WCB Ball Valve, engineered for multiple Diverting / Mixing Operations in the down stream. TYPE : "T" . PORT / "L" / "X".

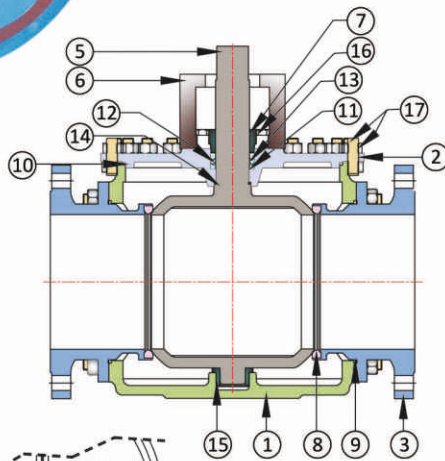
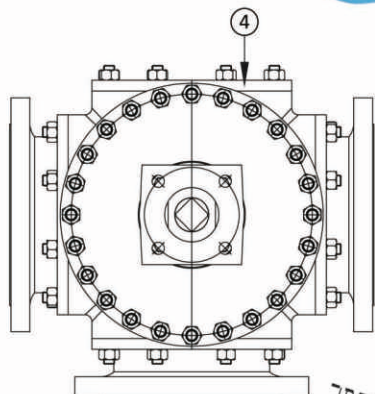
Size Range : 8" to 12" Flange End

Standard

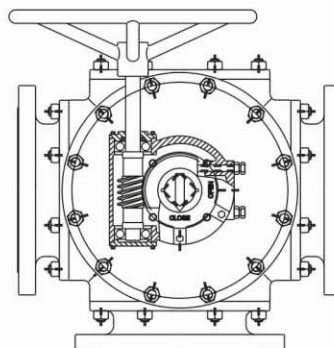
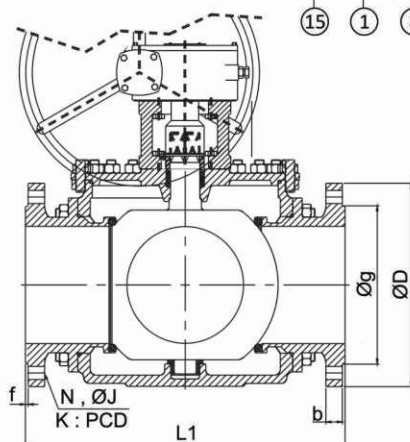
Design And Manufacturing : ASME B 16.34 / API 6D
Valve Face To Face Dimension : As Per Manufacturer
Flange Standard Conformity : ASME B 16.5 Class 150, 300
Inspection & Testing : API 598 / FCI - 702 / BS EN 12266 - 1

TECHNICAL SPECIFICATION

PRESSURE	ASME 150 / ASME 300 PN 16, PN 25, PN 40
TEMPERATURE	-25°C TO 180 °C



No.	Description	Material
1	Body	WCB / CF8 / CF8M
2	Top Cover	WCB / CF8 / CF8M
3	Flange End	WCB / CF8 / CF8M
4	Blind End	WCB / CF8 / CF8M
5	Ball	CF8 / CF8M
6	Bracket	CF8 / CF8M
7	Gland	CF8 / CF8M
8	Ball Seat	PTFE / CFT / GFT / PEEK
9	Body Gasket	PTFE
10	Top Cover Gasket	PTFE
11	Base Seal	PTFE
12	U - Seal	PTFE
13	V - Seal	PTFE
14	'O' - Ring	Viton
15	Bush	CFT / PTFE
16	Bracket & Gland Fitting Bolt	M. S. / S.S.
17	Fitting Stud + Nut	M. S.



Dimensions :

(All Dimensions are in mm)

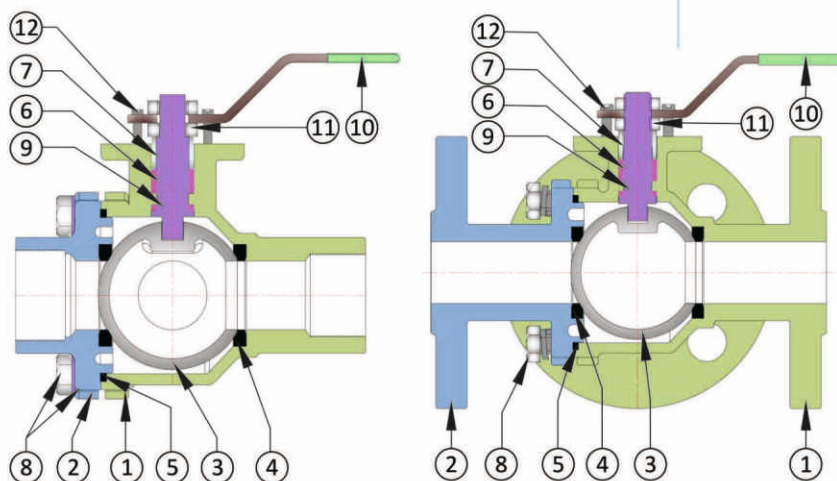
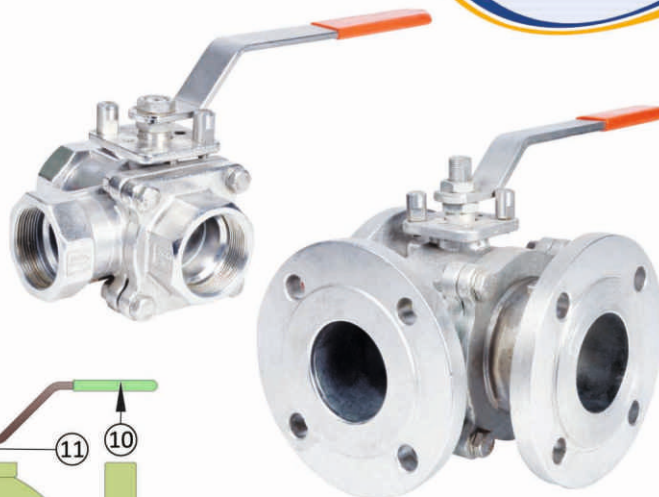
Valve Model	Valve Size		L1	ØD	b	Øg	f	ØJ	N	PCD
	MM	Inch								
A4V-MPBV-200	200	8"	538	345	27	269.9	2	22.2	8	298.5
A4V-MPBV-250	250	10"	662	405	28.6	323.8	2	25.4	12	362.00
A4V-MPBV-300	300	12" (R/Bore)	662	485	30.2	381	2	25.4	12	431.8

4Matic offers Hand Lever & Gear Operated Investment Casting WCB / CF8 / CF8M in 2 Piece Design "C" Way Ball Valve - engineered for multiple ON / OFF operations in the down stream.

Size Range : 1" to 8"

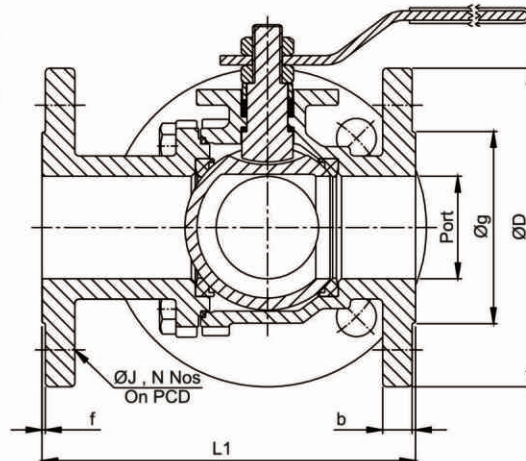
Standard

Design And Manufacturing : ASME B 16.34 / API 6D
Valve Face To Face Dimension : ASME B 16.10
Flange Standard Conformity : ASME B 16.5 Class 150,
Inspection & Testing : API 598



TECHNICAL SPECIFICATION

PRESSURE	10 BAR (150#)
TEMPERATURE	180 °C
LEAKAGE CLASS	CLASS VI as per B 16.16-104
PORT	ONLY "L" PORT AVAILABLE
MEDIA	WATER, AIR, OIL & GAS



No.	Description	Material	Qty.
1	Body	WCB / CF8 / CF8M	1
2	Connection	WCB / CF8 / CF8M	1
3	Ball	CF8 / CF8M	1
4	Ball Seat	PTFE / CFT / GFT / TFM / PEEK	2
5	Body Seat	PTFE / CFT / GFT / TFM / PEEK	1
6	Stem Seat	PTFE / CFT / GFT / TFM / PEEK	5
7	Gland Bush	S.S. 304 / S.S. 316	1
8	Hex Bolt + Spring Washer	S.S. 304	4
9	Stem Pin	S.S. 304 / S.S. 316	1
10	Handle	M.S. / S.S.	1
11	Handle Nut	S.S. 304	2
12	Handle Stopper	S.S. / M.S.	2

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		Port	L1	ØD	b	Øg	f	ØJ	N	PCD	Weight (Approx.)	
	MM	Inch										S/E	F/E
MP-CWBV-25	25	1"	25	127	110	9.6	50.8	2	15.9	4	79.4	1.180	3.800
MP-CWBV-32	32	1.1/4"	32	140	115	11.2	63.5	2	15.9	4	88.9	2.230	4.200
MP-CWBV-40	40	1.1/2"	38	165	125	12.7	73	2	15.9	4	98.4	2.660	6.640
MP-CWBV-50	50	2"	49	178	150	14.3	92.1	2	19.05	4	120.7	5.560	10.200
MP-CWBV-65	65	2.1/2"	62	190	180	15.9	104.8	2	19.05	4	139.7	8.750	14.000
MP-CWBV-90	80	3"	74	203	190	17.5	127	2	19.05	4	152.4	11.200	18.120
MP-CWBV-100	100	4"	100	305	230	22.3	157.2	2	19.05	8	190.5	---	33.100
MP-CWBV-125	125	5"	127	356	255	22.3	185.7	2	22.2	8	215.9	---	75.400
MP-CWBV-150	150	6"	150	394	280	23.9	215.9	2	22.2	8	241.3	---	180.200
MP-CWBV-200	200	8"	201	600	345	27	269.9	2	22.2	8	298.5	---	200.000

4Matic offers Handle Operated FEP / PFA Lined Ball Valve, engineered for optimum solution to the Corrosive Application.



Size Range : 1" to 4" Flange End

Standard

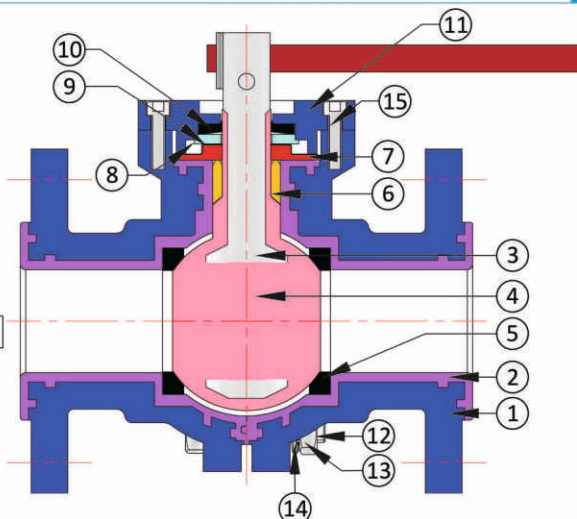
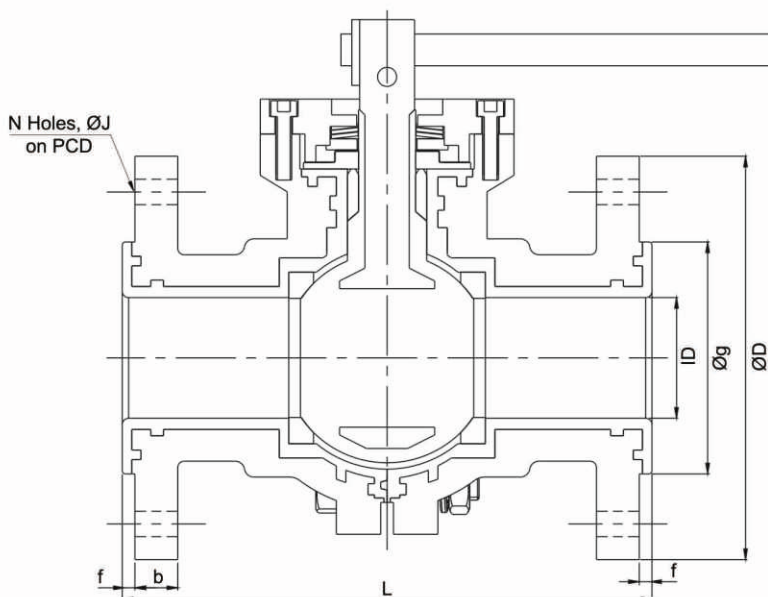
Design And Manufacturing : BSEN ISO 17292 : 2004 (BS 5351)
 Valve Face To Face Dimension : ANSI B 16.10 / DIN 3202 / BSEN 558 - 1/2
 Flange Standard Conformity : ASME B 16.5 150#
 Inspection & Testing : BS EN 12266 - 1 & 2 (2003)
 Top Flange Drilling : ASA 150# / DIN 2632 & 2633 / BSEN 10 Table D, E, F (Customer Specified)

PRESSURE / TEMPERATURE RATING

PRESSURE	150#
TEMPERATURE FEP	180 °C
TEMPERATURE PFA	230 °C

TEST PRESSURE

TESTING	BODY	SEAT
HYDRAULIC	20 KG/CM ²	11 KG/CM ²
PNEUMATIC SEAT PRESSURE		6 KG/CM ²
SPARK TEST - 15 KV D. C.		



No.	Description	Material
1	Body	WCB / D.I. / C.I. / SS 304
2	Body Molding	FEP / PFA
3	Ball with Shaft	WCB / SS 304
4	Ball Moulding	FEP / PFA
5	Ball Seal	PTFE
6	Shaft Bush	PTFE
7	Shaft Washer	PTFE
8	M.S. Shaft Washer	M. S.
9	Plain Washer	M. S.
10	Packing Washer	Spring Steel
11	Top Plate	M. S.
12	Bolt Plate	S. S.
13	Nut	S. S.
14	Washer	S. S.
15	L. N. Bolt	S. S.

Dimensions :

(All Dimensions are in mm)

Valve Model	Valve Size		ID	L	ØD	Øg	b	f	N	ØJ	PCD
	MM	Inch									
4MFPLB - 25	25	1"	24	130.5	108	55	12.7	3.5	4	16.5	79
4MFPLB - 40	40	1.1/2"	38	167	127	73	13.5	3	4	15.5	98.2
4MFPLB - 50	50	2"	49	178	152.5	92	18	4	4	18.5	121
4MFPLB - 65	65	2.1/2"	61.8	206	177.75	104.5	21	4	4	19	140
4MFPLB - 80	80	3"	74	207	190	126	22	5.5	6	19	152.4
4MFPLB - 100	100	4"	94	226	228.5	158	22	5	6	19	190