

# Hand Lever & Gear Operated 3 Piece Design Metal Seated Ball Valve

@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

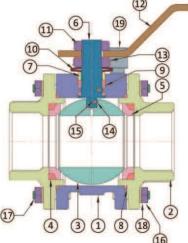
Design And Manufacturing Valve Face To Face Dimension : ASME B 16.10 Flange Standard Conformity

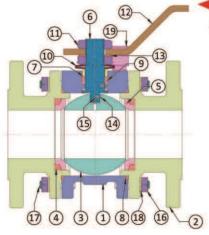
: BS EN ISO 17292 : ASME B 16.5 Class 150,

Inspection & Testing : API 598 / FCI - 702 / BS EN 12266 - 1





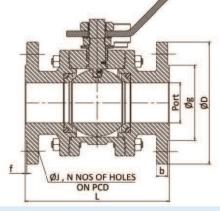




#### Features:

- Metal Seated Ball Valves are inherently fire safe design
- Metal anti-static by nature of the metal to metal
- 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

		(19)	
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



Valve	Valve Size S			Screwed	Flanged 150#									Weight
Model	MM	Inch	L	Weight Approx.	L1	b	f	Port	Øg	ØD	ØJ	N	K:PCD	(Approx)
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.









# **Hand Lever & Gear Operated** 2 Piece design "FIRE SAFE" 'VGO' Ball Valve

1002

@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

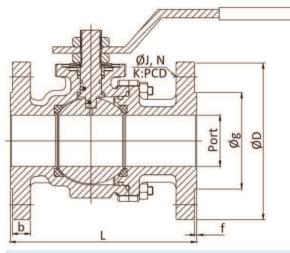
Valve Face To Face Dimension : ASME B 16.10 Flange Standard Conformity : ASME B 16.5 Class 150, 300

Inspection & Testing Fire Safe Test

: BS 5351 / BS EN ISO 17292

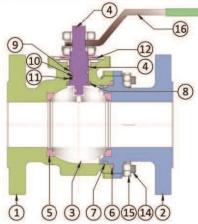
: API 598 / FCI - 70-2 / BS EN 12266 - 1

: API 6 FA / FCI - 70-2



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

Type of Test	Testing Pressure	Working Pressure	Operating Temperature (High Temp. On Request)
Hydraulic	450 PSIG	315 PSIG	Max.180 °C
Hydraulic	1125 PSIG	815 PSIG	Max.180°C
	Hydraulic	Hydraulic 450 PSIG	Hydraulic 450 PSIG 315 PSIG



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 D-Ring	NBR / EPDM / Viton	1
8	Stem Seat Bottom	PTFE	1
9	Stem O-Ring	NBR / EPDM / Viton	1
10	Antistatic Spring	5.5. 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

Dimension	is:																		(All Di	men	sions ar	e in mm)
Valve	Valv	e Size		Flanged 150#							Weight		Flanged 300#							Weight		
Model	MM	Inch	L	b	f	Port	Øg	ØD	ØJ	N	K:PCD	(Approx)	L	b	f	Port	Øg	ØD	ØJ	N	K:PCD	(Approx)
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
V4MG0 - 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	1000	568	46.1	2	252	323.8	445	28.6	16	387.4	10000
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"	WE:	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.







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



**34MATIC** offers WOG Manual Hand Lever Operated Low Torque High Pressure Ball Valve. Locking arrangment & Actuator Mounting Pad.

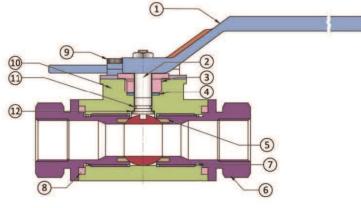
## Size Range: 1/2" to 2" Screwed

## Features:

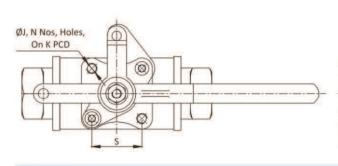
- Low Torque
- High Pressure with High Temperature Seals
- Locking Arrange for Security Purpose
- In bultd Mounting Pad for Pneumatic Actuator

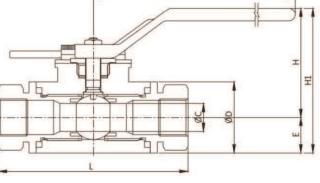
Item	Type of Test	Testing Pressure	Working Pressure	Temperature
Valve Body Screwed End	Hydraulic	300 Kg	200 Kg	150 °C





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





Dimensions :										(All	Dimension	s are in mm)
Valve	Size		LI		Ĥ	ØC	ØD		ØJ	N	PCD	Weight
Model	MM	Inch	100			00	00	-			100	(Approx.)
4MW0G - 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





**TECHNICAL SPECIFICATION** 

AS PER TABLE

-20°C to 150°C

PRESSURE

**TEMPERATURE** 

# **Hand Lever Operated** 2 Way High Pressure Ball Valve

1004

O4MATIC 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.



(1)

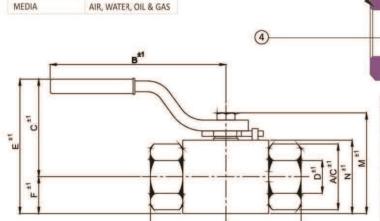
#### Size Range: 1/4" to 1"

#### 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.



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 Dim	ensions a	re in mm)
Valve	Valve	Size	**Max. W.R.	٨	В	•	D		e e	A/C	N	M	Weight
Model	MM	Inch	Kg/cm2	A			Bore	-		7/4	19	IVI	Approx
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



(9)



# **Hand Lever Operated** 3 Way High Pressure Ball Valve

(8)

(7)

(6) (5)

34MATIC 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:

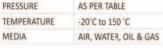
- Full bore valves provide an unrestricted flow path for negligible pressure drop.
- Floating ball on pre-compressed seals minimises wear and provides an excellent seal at positive and negative pressure.
- Operating temperature from -20 °C to 150 °C
- Open to close in 1/4 turn (90°)

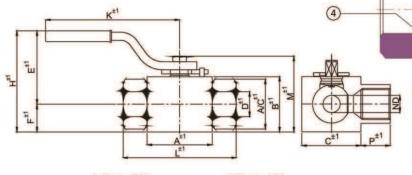
#### **Stainless Steel Valves**

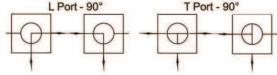
Body and Ball in 316 Stainless Steel for use in the Food, Chemical and Pharmaceutical Industries. A variety of special seals can be provided to comply with the stringent specifications required by these applications.



## **TECHNICAL SPECIFICATION** PRESSURE TEMPERATURE







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 / 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

#### (All Dimensions are in mm) **Dimensions:** Weight Valve ND A/C H L M E Model Approx Inch A4-HP3W-BV-15 13 48.2 45.5 40.5 36.5 83 148 83.5 65 19 60 23 11.5 1.060 15 1/2" A4-HP3W-BV-20 20 20 61 61.5 51 52.5 98 195 96 65 24.5 71 27 19.3 2.210 3/4" 25 68.5 195 107.5 96 83 30 A4-HP3W-BV-25 25 1" 71.5 60 58 113 23.5 24.6 2.900 106 40 25 91.5 80 80 146 230 130.5 123 32.5 6 150 A4-HP3W-BV-32 32 90 36 1.1/4" 80 146 230 123 106 40 A4-HP3W-BV-40 130.5 32.5 36 5.800 1.1/2"







# **Hand Lever Operated** Wafer Type Ball Valve

1006

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

# Size Range: 1" to 4" Wafer Type

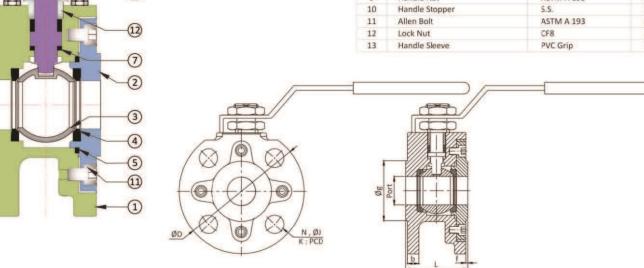
Item	Type of Test	Testing Pressure	Working Pressure	Operating Temperature (High Temp. On Request)
Valve Body Flanged 150#	Hydraulic	450 PSIG	315 PSIG	Max.180 °C

## 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	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 :										(Al	l Dimension	are in mm
Valve	Valv	e Size	1	ь	4	Port	Øg	ØD	ØJ	N	PCD	Weight
Model	MM	Inch		N.	- 17	TO THE	26	22			100	arcibin.
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





# **Hand Lever Operated Jacketed Type Ball Valve**

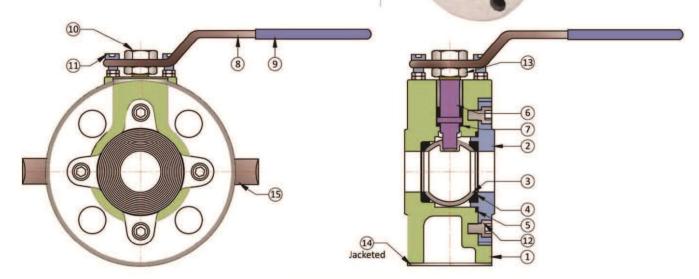


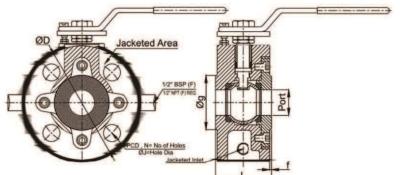
②4MATIC offers Hand Lever Operated Investment Casting WCB / CF8 / CF8M / Ball Valve in 2 Piece Design Wafer Type JACKETED- engineered for multiple ON / OFF operations in the down steam

## 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
-			. 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	Stem Pin	AISI 304 / 316	1
7	Stem 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

imensions :										(All Dimensio	ns are in mm
Valve	Valve	e Size	Port		ØD	Øg	ØJ	N		PCD	Weight
Model	MM	Inch	FUIL		20	NB.	403			reb	(Approx.)
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

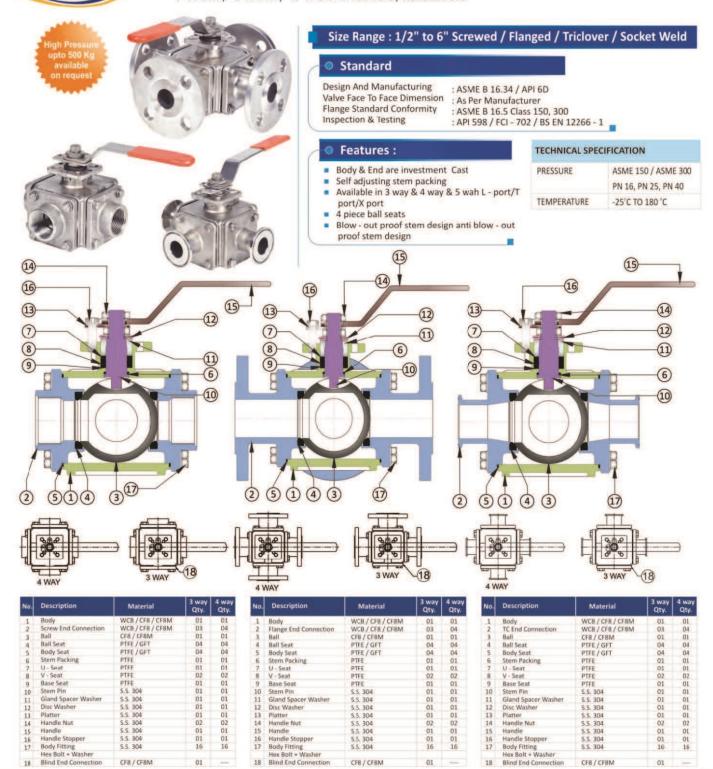




## Hand Lever & Gear Multi Port Ball Valves 3 Way / 4 Way / 5 Way Ball Valve

1008

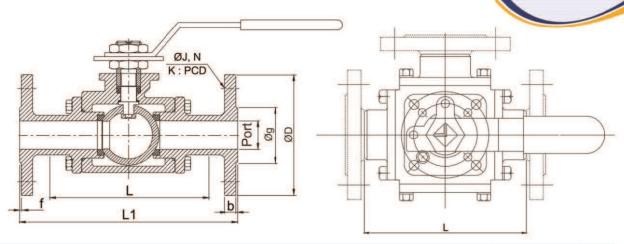
O 4MATIC offers Hand Lever & Gear Operated "Three Way - Four Way" Design Investment Casting CF8 / CF8M / WCB Ball Valve, engineered for multiple Diverting / Mixing Operations in the down stream. TYPE: "T". PORT / "L". PORT / "X". PORT In Full Bore / Reduce Bore



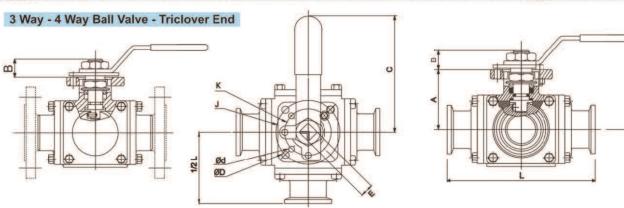


# Multi Port Ball Valves Hand Lever & Gear 3 Way / 4 Way / 5 Way Ball Valve





Valve	Valv	e Size	Scr	ewed				Flan	ged 150	#				Weight			F	langed 3	00#				K:PCD
Model	MM	Inch	1	Weight	LI	b	f	Port	Øg	ØD	ØJ	N	K:PCD	(Approx)	L1	b	f	Port	Øg	ØD	ØJ	N	N.PCL
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	1922	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.
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.
A4V-3100-80	80	3"	304	reason.	306	17.5	2	76	127	190	4	19.05	152.4	46.300	327	27	2	74	127	210	22.2	8	168.
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"	24		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



Dimensions :											(All Dir	nensions a	re in mm
Valve	Valv	e Size	Α	В		Ed	ED	H1	К	19		Port	196
Model	MM	Inch	-A	D		cu	ED	61.1	. IX		t	FOIL	4.
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	10	
A4V-T3100-100	100	4"	99.5	25	*		11.5	330	*	102	22	45	





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## Gear Operated High Flow Multi Port Ball Valve 3 Way / 4 Way Ball Valve

# 1009

©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

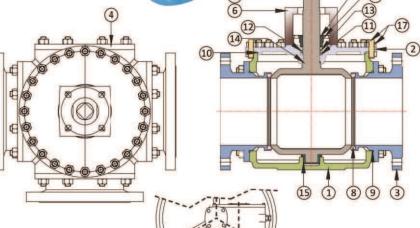
Design And Manufacturing Valve Face To Face Dimension : As Per Manufacturer Flange Standard Conformity : ASME B 16.5 Class 150, 300 Inspection & Testing

: ASME B 16.34 / API 6D

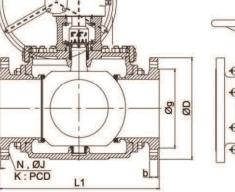
: API 598 / FCI - 702 / BS EN 12266 - 1

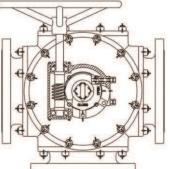
#### TECHNICAL SPECIFICATION

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



1	No.	Description	Material				
Ī	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	lt M. S. / S.S.				
	17	Fitting Stud + Nut	M. S.				





Dimensions :									(All Dimens	ions are in mm)
Valve Model	Valv	ve Size	12	ØD	E.	Øg	¥.	ØI	N	PCD
valve iviodei	MM	Inch		ØD.	Ü	νs	76	Ø٦	18	rco
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





# Hand Lever & Gear Operated CW Series ('C' Way) 3 Way Ball Valve



♦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 steam.

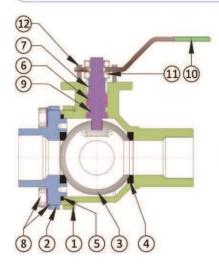
## Size Range: 1" to 8"

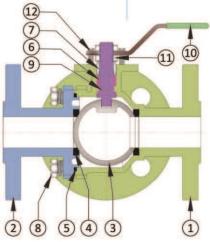
#### Standard

Design And Manufacturing Valve Face To Face Dimension : ASME B 16.10 Flange Standard Conformity

: ASME B 16.34 / API 6D : ASME B 16.5 Class 150,

Inspection & Testing : API 598

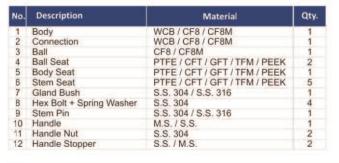


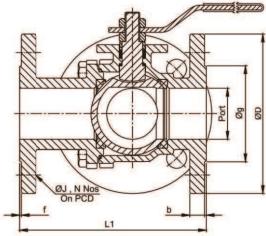


(12) (2)	-
9	11) 10)
	7
28543	1

TECHNICAL	SPECIFICATION
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





#### Dimensi

sions :		(All Dimensions are in mm)
Valve Size		Weight (Approx.)

Valve	Valve Size		Port	11	ØD	h	Øg	4	ØJ	N	PCD	Weight (Approx.)	
Model	MM	Inch	FUIL	- 1.1	ØU.	ь	νg	4	(v)	-14	PCD	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





## FEP / PFA LINED FLANGED END BALL VALVE

1011

**O4MATIC** offers Handle Operated FEP / PFA Lined Ball Valve, engineered for optimum solution to the Corrosive Application.



## Size Range: 1" to 4" Flange End

#### Standard

Top Flange Driling

Design And Manufacturing Flange Standard Conformity Inspection & Testing

: BSEN ISO 17292 : 2004 (BS 5351) Valve Face To Face Dimension : ANSI B 16.10 / DIN 3202 / BSEN 558 - 1/2

: ASME B 16.5 150#

: BS EN 12266 - 1 & 2 (2003)

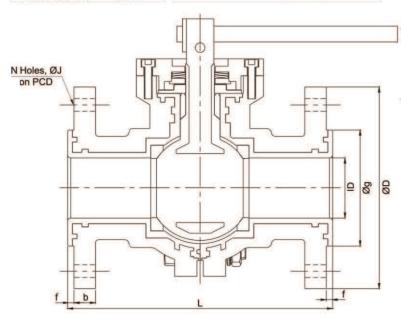
: ASA 150# / DIN 2632 & 2633 / BSEN 10 Table

11)

D, E, F (Customer Specified)

PRESSURE / TEMPER	RATURE RATING
PRESSURE	150#
TEMPERATURE FEP	180 °C
TEMPERATURE PEA	230°C

	TEST PRESSURE	
TESTING	BODY	SEAT
HYDRAULIC	20 KG/CM <sup>2</sup>	11 KG/CM <sup>2</sup>
PNEUMATIC S	6 KG/CM	
SP	ARK TEST - 15 KV D.	C.



No.	Description	Material				
1	Body	WCB / D.I. / C.I. / SS 304 SS 316				
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	5. 5.				
14	Washer	S. S.				
15	L. N. Bolt	S. S.				

Dimensions :										(All Dimensio	ns are in mn
Valve Model	Valve Size		ID	4	ØD	Øg	h	4	N	ØJ	PCD
	MM	Inch	10	11/2:	ØD	PB.	b	1.5	(N)	נש	rcu
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



