



# SERIES 55

## MADE IN MARS

Take a good look, it may be your future

### ECONOMICAL THREE-PIECE BALL VALVES 1/4" TO 4" FULL PORT 800 / 1000 PSI

#### DESIGN ADVANTAGES

- For general Industrial and Chemical applications.
- Three-piece swing-out design allows in-line maintenance.
- Full port orifice minimizes pressure drop and prolongs life.
- Blow-out proof stem.
- Available in stainless steel and carbon steel.
- Investment cast body construction.

#### SPECIFICATIONS

**CONSTRUCTION:** Three-Piece Body, Full Bore

**SIZE:** 1/4" to 4" ( DN 8 to DN 100 )

**BODY:** CF8M, WCB / DIN 1.4408, 1.0619

**BALL AND STEM:** 316 S.S.

**SEAT:** PTFE

**PRESSURE RATING:** 800/1000 PSI

#### VALVE FIG. NO. AND END CONNECTIONS

FIG. 55-10 Threaded End

FIG. 55-20 Socket Weld

FIG. 55-30 Butt Weld

FIG. 55-40 Extended Butt Weld

FIG. 55-50 Flanged End

(PN 25/40 F1)

FIG. 55-70 Extended ISO

(Butt Weld End)

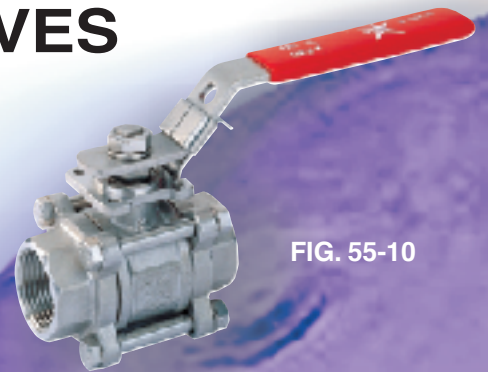


FIG. 55-10

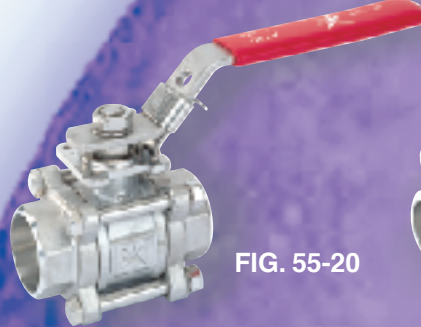


FIG. 55-20



FIG. 55-30

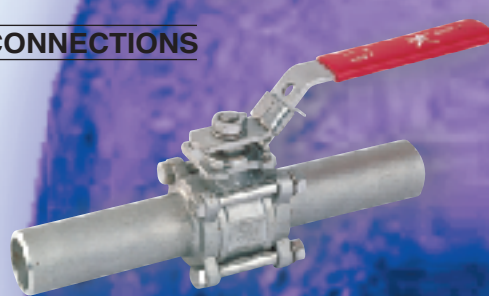


FIG. 55-40

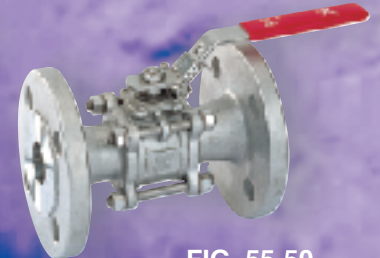
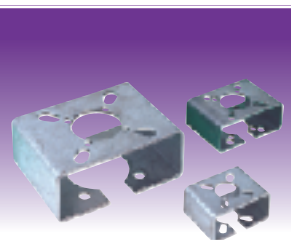
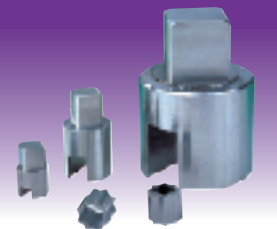


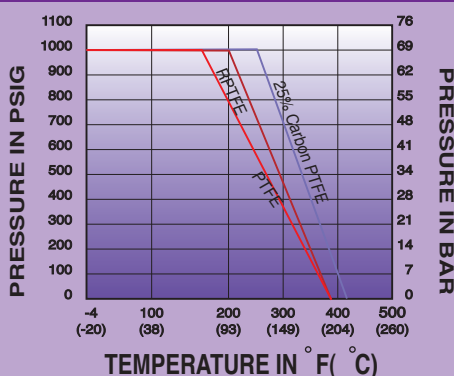
FIG. 55-50

#### OPTION

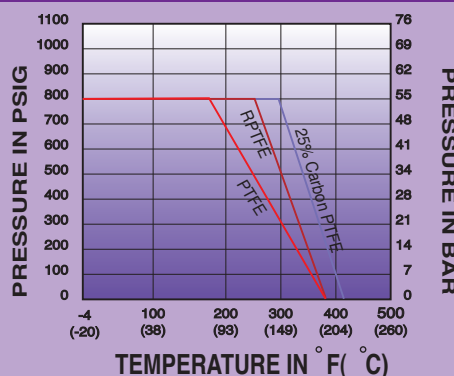
Mounting Brackets and Couplers



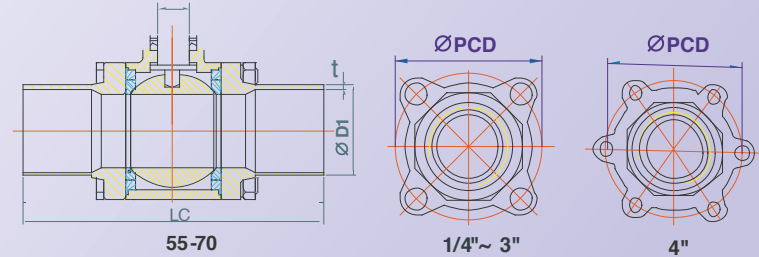
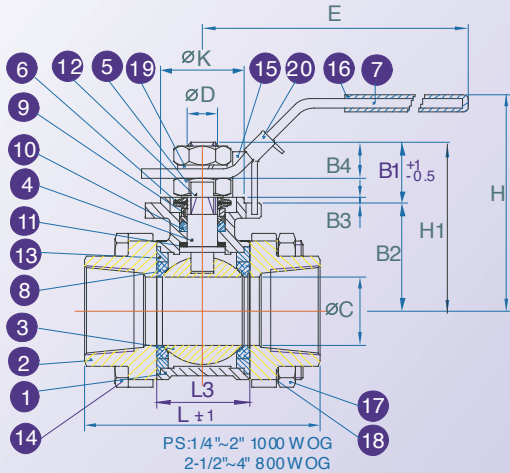
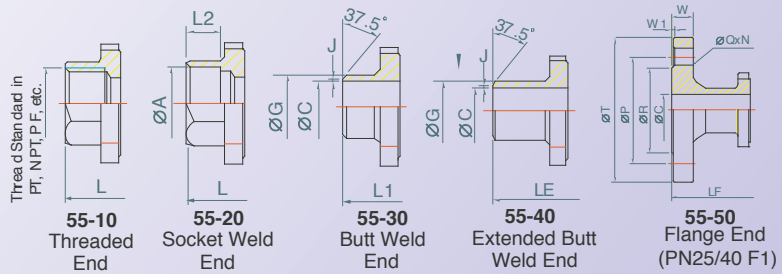
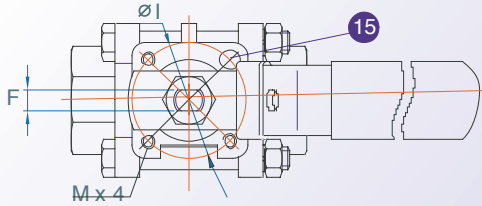
Pressure Vs. Temperature Chart  
for Valve 1/4" (DN8) to 2" (DN50)



Pressure Vs. Temperature Chart  
for Valve 2 1/2" (DN65) to 4" (DN100)



# MATERIALS LIST



NO.	PART NAME	MATERIAL	Q'TY	NO.	PART NAME	MATERIAL	Q'TY
1	Body	CF8M WCB	1	11	Stem Seal	RPTFE	1
2	End Cap	CF8M WCB	2	12	Lock Saddle	SUS 304	1
3	Ball	SUS316	1	13	Joint Gasket	PTFE	2
4	Stem	SUS316	1	14	Bolt	SUS 304	*
5	Stem Nut	SUS 304	2	15	Stop Pin	SUS 304	1
6	Belleville Washer	SUS 301	2	16	Handle Sleeve	Vinyl	1
7	Handle	SUS 304	1	17	Bolt Nut	SUS 304	f
8	Seat	PTFE	2	18	Bolt Washer	SUS 304	f
9	Gland	SUS 304	1	19	Stem Washer	SUS 304	1
10	V-Ring Packing	PTFE	&	20	Locking Device	SUS 304	1

\* 1/4" ~ 3/8"-1pcs, 1/2"-3"-2pcs, 4"-3pcs.  
 f 1/4" ~ 2" - 4pcs of studs.  
 2 1/2" ~ 3" - 4pcs of studs, 4" - 6pcs of studs.

## DIMENSIONS (mm)

SIZE	ØA	B1	B2	B3	B4	ØC	ØD	E	F	ØG	H	H1	ØI	J	ØK	L	L1	*L	*L1	L2	L3	LE	LF	M	N	ØP	ØQ	ØR	ØT	W	W1	Øpcd	ØD1	LC	t	W(kg)	ISO211	
1/4"	14.3	198	29.1	2	7.4	11.6	9.5	130	6.5	16.2	75	48.9	36	1.6	25	63.7	62.7	60	70	10	23.6	225	N/A	M5	NA	NA	NA	NA	NA	NA	NA	NA	46				0.62	RD 3
3/8"	17.6	198	29.1	2	7.4	12.7	9.5	130	6.5	17.5	75	48.9	36	1.6	25	63.7	62.7	60	70	10	23.6	225	N/A	M5	NA	NA	NA	NA	NA	NA	NA	NA	46	17.2	120.2	1.6	0.60	RD 3
1/2"	21.9	19.8	29.1	2	7.4	15.0	9.5	130	6.5	22.7	75	48.9	36	1.6	25	65.7	65.7	75	75	10	23.6	225	13D	M5	4	65	14	45	95	16	2	46	21.3	140.2	1.6	0.61	RD 3	
3/4"	27.3	17.5	32.6	2	6.4	20.0	9.5	130	6.5	27.5	77	50.1	36	1.6	25	76.2	76.2	80	90	13	28	225	15D	M5	4	75	14	58	105	18	2	52	26.9	140	1.6	0.76	RD 3	
1"	33.9	20.7	38.9	2	12.3	25.0	11	160	8.0	34	85	59.6	42	1.6	30	86.2	86.2	90	100	13	33.9	245	16D	M5	4	85	14	68	115	18	2	60	33.7	152.2	1.8	1.07	RD 4	
1 1/4"	42.8	24.5	40.4	2	10.9	32.0	11	160	8.0	42.7	92	64.9	42	1.6	30	102.8	102.8	110	110	13	42.5	255	18D	M5	4	100	18	78	140	18	2	73.5	42.4	165.1	2	1.68	RD 4	
1 1/2"	48.9	31	46.2	2	13.7	38.0	14	185	9.7	48.6	102	77.2	50	1.6	35	119.4	119.4	120	125	13	53.2	260	20D	M6	4	110	18	88	150	18	3	85.5	48.3	190.4	2	2.51	RD 5	
2"	61.3	31	54.7	2	13.7	50.0	14	185	9.7	60.5	110	85.7	50	1.6	35	131.4	131.4	140	150	16	64.6	275	23D	M6	4	125	18	102	165	20	3	103.8	60.3	203	2.5	3.65	RD 5	
2 1/2"	76.9	42.6	71.5	2.5	23.2	65.0	19	260	12.0	76.3	150	114.1	70	2.0	55	164	164	185	190	16	87	334	29D	M8	8	145	18	122	185	22	3	130	76.1	254	3	7.33	RD 7	
3"	90.0	39.3	84.5	2.5	18.7	80.0	19	260	12.0	90.0	162	123.8	102	2.0	70	182.7	182.7	205	220	16	99	354	31D	M10	8	160	18	138	200	24	3	155.5	88.9	280.2	3	10.64	FI 0	
4"	115.5	52.3	106.5	3	34.2	100	24	290	15.0	116.0	190	158.8	102	3.5	70	235.6	236.2	240	270	20	127	365	35D	M10	8	190	22	162	235	24	3	188	114.3	317	3	19.85	FI 0	

\* L - Dimension for DIN 3202-M3 Length  
 \* L1 - Dimension for S13 Length

## HOW TO ORDER ■ 55-1005SP

55-10	05	S	P
VALVE TYPE	SIZE	BODY & END MATERIAL	SEAT
<input checked="" type="checkbox"/> 55-10 Threaded End	<input type="checkbox"/> 01 1/4"	<input checked="" type="checkbox"/> S- CF8M	<input checked="" type="checkbox"/> P- Virgin PTFE
<input type="checkbox"/> 55-20 Socket Weld End	<input type="checkbox"/> 02 3/8"	<input type="checkbox"/> W- WCB	<input type="checkbox"/> R- R-PTFE
<input type="checkbox"/> 55-30 Butt Weld End	<input type="checkbox"/> 03 1/2"	<input type="checkbox"/> L - 316L St. St.	<input type="checkbox"/> S- 50/50 St. St. filled PTFE
<input type="checkbox"/> 55-40 Extended Butt Weld End	<input checked="" type="checkbox"/> 04 3/4"	<input type="checkbox"/> F - 304 St. St.	<input type="checkbox"/> C- Carbon filled PTFE
<input type="checkbox"/> 55-50 Flanged End (PN 25/40 F1)	<input type="checkbox"/> 05 1"		<input type="checkbox"/> M- MG1241
<input type="checkbox"/> 55-70 Extended ISO (Butt weld end)	<input type="checkbox"/> 06 1 1/4"		<input type="checkbox"/> D- Delrin
	<input type="checkbox"/> 07 1 1/2"		<input type="checkbox"/> U- UHMWPE
	<input type="checkbox"/> 08 2"		
	<input type="checkbox"/> 09 2 1/2"		
	<input type="checkbox"/> 10 3"		
	<input type="checkbox"/> 11 4"		

## BREAK AWAY TORQUE & Cv VALUES

Valve Size	Nm	Cv U.S.GPM
1/4"	7	8
3/8"	7	8
1/2"	7	12
3/4"	9	32
1"	16	56
1 1/4"	17	82
1 1/2"	29	120
2"	36	240
2 1/2"	59	320
3"	85	580
4"	130	1020



**MARS VALVE CO., LTD.**  
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 FAX:++886-4-2297 3608  
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 http://www.marsvalve.com.tw

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