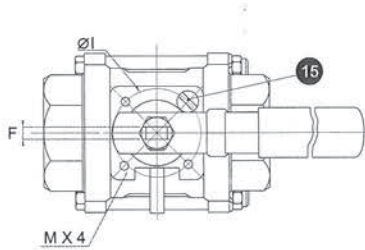


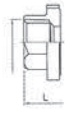
80/70 series have same materials spec (Cf8m)

MARS SERIES 70

THREE PIECE HIGH PERFORMANCE BALL VALVES



1/4" ~ 2"



70-10
Threaded
End



70-20
Socket Weld
End

2 1/2" ~ 4"



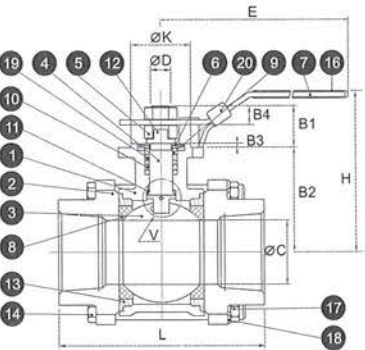
70-30
Butt Weld
End
Butt Weld Ends acc. To DIN
3239 Available on request



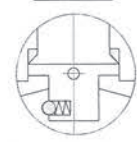
70-40
Extended Butt
Weld End



70-50
Flange End
(PN 25/40 F1)



V-VIEW



Pyramidal Stem &
Anti-static Device

MATERIALS LIST

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

□ Socket weld, butt weld, and extended butt weld use CF3M material
 § For 1/4" to 3/4" 1 set of v-ring packing consists of 2pcs of v-ring
 For 1" to 4" 1 set of v-ring packing consists of 3pcs of v-ring
 * For 1/4" to 2" - 4pcs of bolts (single ended external thread)
 For 2 1/2" to 4" - 6pcs of studs (double ended external thread)
 ∫ For 1/4" to 2" - 4pcs; For 2 1/2" to 4" - 12pcs
 ‡ 50% Stainless steel powder filled PTFE

DIMENSIONS(mm)

SIZE	ØA	B1	B2	B3	B4	ØC	ØD	E	F	ØG	H	ØI	J	ØK	L	L1	L2	LE	LF	M	N	ØP	ØQ	ØR	ØT	W	W1	ISO5211	
1/4"	14.1	18.8	37.0	2	9.3	11.6	9.5	137	6.3	17.5	72	36	1.6	25	60	70	10	225	N/A	M5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	F03
3/8"	17.6	18.8	37.0	2	9.3	12.7	9.5	137	6.3	17.5	72	36	1.6	25	60	70	10	225	N/A	M5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	F03
1/2"	21.8	18.8	37.0	2	9.3	15.0	9.5	137	6.3	22.7	72	36	1.6	25	75	75	10	225	130	M5	4	65	14	45	95	16	2	F03	
3/4"	27.5	18.8	40.3	2	9.3	20.0	9.5	137	6.3	27.5	74	36	1.6	25	80	90	13	225	150	M5	4	75	14	58	105	18	2	F03	
1"	34.7	20.4	50.0	2	10.7	25.0	11.1	150	8.0	33.5	92	42	1.6	30	90	100	13	245	160	M5	4	85	14	68	115	18	2	F04	
1 1/4"	43.0	20.4	55.5	2	10.7	32.0	11.1	150	8.0	42.0	98	42	1.6	30	110	110	13	255	180	M5	4	100	18	78	140	18	2	F04	
1 1/2"	49.0	26.8	63.0	3	12.6	38.0	14.3	189	9.5	48.6	109	50	1.6	35	120	125	13	260	200	M6	4	110	18	88	150	18	3	F05	
2"	61.5	26.8	71.3	3	12.6	50.0	14.3	189	9.5	60.5	117	50	1.6	35	140	150	16	275	230	M6	4	125	18	102	165	20	3	F05	
2 1/2"	77.0	33.5	89.9	3	17.0	65.0	19.1	253	15.0	76.3	157.5	70	1.6	55	185	190	16	334	290	M8	8	145	18	122	185	22	3	F07	
3"	90.0	33.5	99.0	3	17.0	80.0	19.1	253	15.0	90.0	167	102	1.6	70	205	220	16	354	310	M10	8	160	18	138	200	24	3	F10	
4"	115.0	33.5	120	3	17.0	100	19.1	275	15.0	116.0	188	102	1.6	70	240	270	20	365	350	M10	8	190	22	162	235	24	3	F10	

BREAK AWAY TORQUE & Cv VALUES

SIZE	BREAK AWAY TORQUE		Cv U.S.GPM
	Nm	In-lbs.	
1/4"	3	27	8
3/8"	3	27	8
1/2"	3	27	12
3/4"	7	62	32
1"	12	106	56
1 1/4"	15	133	82
1 1/2"	20	177	120
2"	23	204	240
2 1/2"	35	310	320
3"	55	487	580
4"	85	753	1020

HOW TO ORDER

STYLE	SIZE	BODY & END MATERIAL	SEAT
70-10 Threaded End	01- 1/4" 02- 3/8"	S-CF8M W-WCB	P-Virgin PTFE R-R-PTFE
70-20 Socket Weld End	03- 1/2" 04- 3/4"	L-316L	S-50/50 St. St. filled PTFE
70-30 Butt Weld End	05- 1"	F-CF8	C-Carbon filled PTFE
70-40 Extended Weld End	06- 1 1/4" 07- 1 1/2"		M-MG1241 D-Delrin
70-50 Flange End(PN 25/40 F1)	08-2" 09- 2 1/2" 10-3" 11-4"		U-UHMWPE



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AGENT: