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# SERIES 10 & 20

# MADE IN MARS

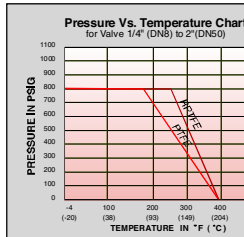
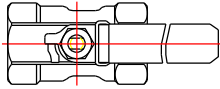
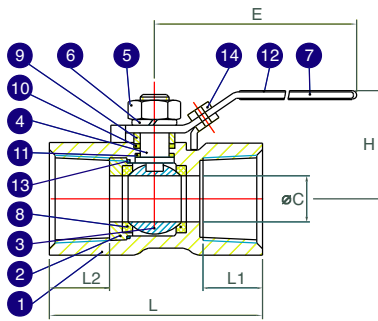
## Economical One-Piece / Two-Piece Ball Valves Stainless Steel And Carbon Steel Threaded Ends 1000 / 1500 / 2000 PSI

Take a good look, it may be your future

### DESIGN FEATURES

- For General Industrial and Chemical Applications, provides Safe, Economical Performance
- Economical Compact Design
- Blow-Out Proof Stem
- Low Operation Torque
- Investment Cast Body Construction

### SERIES 10-10



### DIMENSIONS (mm)

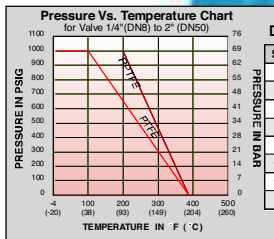
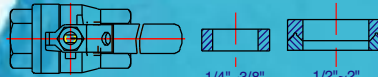
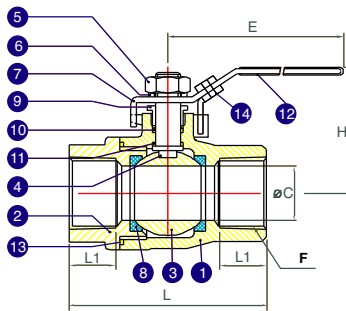
SIZE	ØC	E	H	L	L1	L2	W (Kg)
1/4"	5.0	64	35	39	11.0	7.0	0.07
3/8"	7.0	70	37	44	11.0	8.0	0.10
1/2"	9.2	90	43.5	56.5	16.0	14.0	0.16
3/4"	12.5	90	47	58	15.0	10.7	0.25
1"	15.0	103	50	71	17.4	17.0	0.43
1 1/4"	20.0	103	57	78	19.0	16.7	0.70
1 1/2"	25.0	127	69	83	19.1	16.6	0.83
2"	32.0	127	74.5	100	22.5	19.7	1.50

### MATERIALS LIST

NO	PART NAME	MATERIAL	QTY	
1	Body	CF8M	WCB	1
2	Cap	CF8M	WCB	1
3	Ball	SUS316		1
4	Stem	SUS316		1
5	Stem Nut	SUS 304		1
6	Stem Washer	SUS 304		1
7	Handle	SUS 304		1
8	Seat	PTFE		2
9	Gland	SUS 304		1
10	Stem Packing	PTFE		1
11	Thrust Washer	PTFE		1
12	Handle Sleeve	Vinyl		1
13	Joint Gasket	PTFE		1
14	Locking Device	SUS 304		1

‡ Available as an option

### SERIES 20-10



### DIMENSIONS (mm)

SIZE	ØC	E	H	L1	L	F	W (Kg)
1/4"	11.5	100	50	13	55	1/4" NPT or BSP	0.23
3/8"	12.5	100	50	13	55	3/8" NPT or BSP	0.23
1/2"	15.0	130	60	15	65	1/2" NPT or BSP	0.36
3/4"	20.0	130	64	17	72	3/4" NPT or BSP	0.47
1"	25.0	165	71	19	84	1" NPT or BSP	0.82
1 1/4"	32.0	165	78	22	94	1 1/4" NPT or BSP	1.17
1 1/2"	38.0	190	86	22	110	1 1/2" NPT or BSP	1.82
2"	50.0	190	95	26	126	2" NPT or BSP	2.83

### MATERIALS LIST

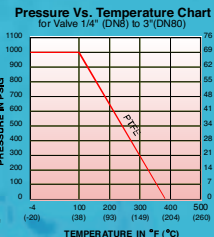
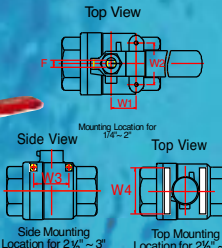
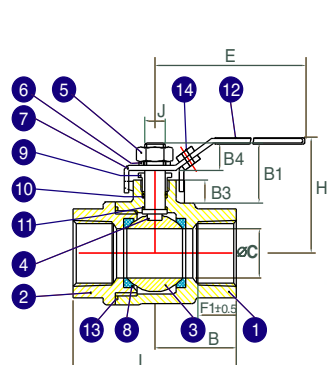
NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1
2	End Cap	ASTM A351 Gr. CF8M	1
3	Ball	SUS316	1
4	Stem	SUS316	1
5	Stem Nut	SUS 304	1
6	Stem Washer	SUS 304	1
7	Handle	SUS 304	1
8	Seat	PTFE	2
9	Gland Nut	SUS 304	1
10	V-Ring Packing	PTFE	§
11	Thrust Washer	PTFE	1
12	Handle Sleeve	Vinyl	1
13	Joint Gasket	PTFE	1
14	Locking Device	SUS 304	1

§ 1/2" - 3/4" regular 1 pc stem packing is used instead  
1/2" - 2" 1 set of v-ring packing consists of 2pcs of v-ring

‡ Available as an option

Note: For carbon steel version replace item No. 1 & No. 2 with ASTM A216 Gr. WCB

### SERIES 20-20



SIZE	B	B1	B3	B4	ØC	J	E	F	H	L	W1	W2	W3	W4	W (kg)	
1/4"	27.5	22.3	8	9.8	11.5	8	100	5.0	15	50	55	12.7	28.5		0.23	
3/8"	27.5	22.3	8	9.8	12.5	8	100	5.0	15	50	55	12.7	28.5		0.23	
1/2"	32.5	25.6	10.5	11	15.0	9.5	130	6.5	16	60	65	12.7	28.5		0.38	
3/4"	37.3	25.6	10.5	11	20.0	9.5	130	6.5	17	64	74.6	22.4	35.0		0.52	
1"	44.0	31.5	11.5	13.5	25.0	11	165	8.0	20.4	71	88	22.4	35.0		0.92	
1 1/4"	51.0	31.5	11.5	13.5	32.0	11	165	8.0	22	78	102	25.4	38.1		1.32	
1 1/2"	55.0	35.1	12	15.6	38.0	14	190	9.7	22.5	86	110	25.4	38.1		1.90	
2"	62.5	30.6	9.5	15.6	50.0	14	190	9.7	26	95	125	25.4	38.1		3.12	
2 1/2"	81.3	54.2	17	24.5	65.0	19	250	12.0	31	130	160.6			59	61	6.50
3"	89.0	55.2	18	24.5	80.0	19	250	12.0	34	148	178			70	71	9.30

### MATERIALS LIST

NO	PART NAME	MATERIAL	QTY	
1	Body	CF8M	WCB	1
2	End Cap	CF8M	WCB	1
3	Ball	SUS316		1
4	Stem	SUS316		1
5	Stem Nut	SUS 304		1
6	Stem Washer	SUS 304		1
7	Handle	SUS 304		1
8	Seat	PTFE		2
9	Gland Nut	SUS 304		1
10	V-Ring Packing	PTFE	§	
11	Thrust Washer	PTFE		1
12	Handle Sleeve	Vinyl		1
13	Joint Gasket	PTFE		1
14	Locking Device	SUS 304		1

§ 1/4" - 3/8" regular 1pc stem packing is used instead  
1/2" - 3" 1 set of v-ring packing consists of 2pcs of v-ring  
‡ Available as an option

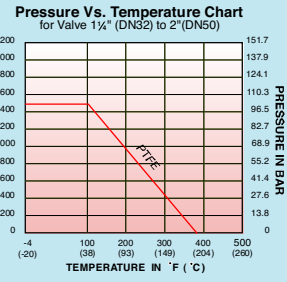
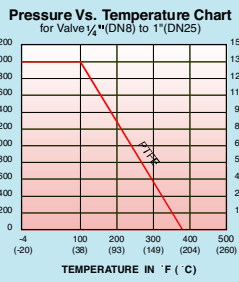
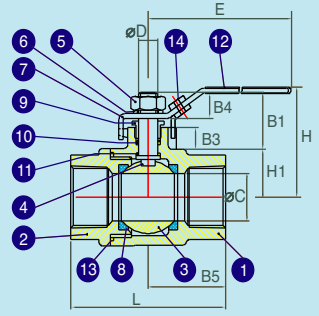
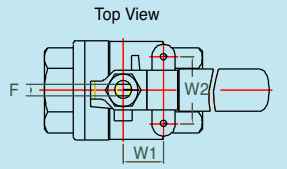
**SERIES 20-30**



**MATERIALS LIST**

NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1
2	End Cap	ASTM A351 Gr. CF8M	1
3	Ball	SUS316	1
4	Stem	SUS316	1
5	Stem Nut	SUS 304	1
6	Stem Washer	SUS 304	1
7	Handle	SUS 304	1
8	Seat	RPTFE/PTFE	2
9	Gland Nut	SUS 304	1
10	V-Ring Packing	PTFE	§
11	Thrust Washer	PTFE	1
12	Handle Sleeve	Vinyl	1
13	Joint Gasket	PTFE	1
14	Locking Device	SUS 304	1

§ 1/4" ~ 3/8" regular 1pc stem packing is used instead  
 ‡ 1/2" ~ 2" 1 set of v-ring packing consists of 2pcs of v-ring



**DIMENSIONS (mm)**

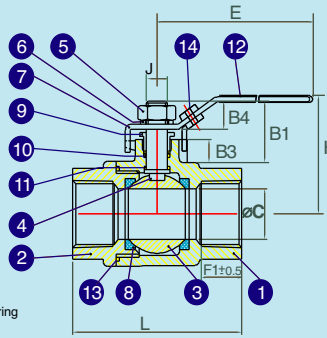
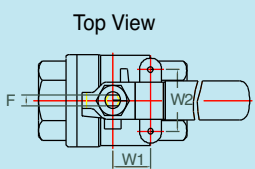
SIZE	B	B1	B3	B4	ØC	ØD	E	F	H	H1	L	W1	W2	W (kg)
1/4"	11	17.7	6	8	9.5	8	100	5.0	50	14.7	51	12.7	28.5	0.22
3/8"	11	17.7	6	8	9.5	8	100	5.0	50	15	51	12.7	28.5	0.22
1/2"	15	22.6	8	9.8	12.5	8	100	5.0	50	14.5	59.5	12.7	28.5	0.28
3/4"	16.5	25	10.5	11	15.0	9.5	130	6.5	53	17.7	70	22.4	35.0	0.45
1"	19.5	25	9	11	20.0	9.5	130	6.5	64	22	84	22.4	35.0	0.66
1 1/4"	20	33	13	13.5	25.0	11	165	8.0	66	25.1	91	22.4	35.0	1.08
1 1/2"	22	31	11.5	13.5	32.0	11	165	8.0	79	31.2	104	25.4	38.1	1.49
2"	23	31.6	9	15.6	38.0	14	190	9.7	83	40	117	25.4	38.1	2.32

**SERIES 20-40**

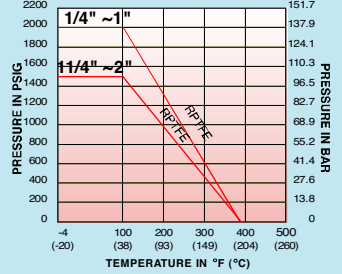
**MATERIALS LIST**

NO.	PART NAME	MATERIAL	QTY
1	Body	CF8M WCB	1
2	End Cap	CF8M WCB	1
3	Ball	SUS316	1
4	Stem	SUS316	1
5	Stem Nut	SUS 304	1
6	Stem Washer	SUS 304	1
7	Handle	SUS 304	1
8	Seat	RPTFE	2
9	Gland Nut	SUS 304	1
10	V-Ring Packing	PTFE	§
11	Thrust Washer	PTFE	1
12	Handle Sleeve	Vinyl	1
13	Joint Gasket	PTFE	1
14	Locking Device	SUS 304	1

§ 1/4" ~ 3/8" regular 1pc stem packing is used instead  
 ‡ 1/2" ~ 2" 1 set of v-ring packing consists of 2pcs of v-ring Available as an option



**Pressure Vs. Temperature Chart**



**DIMENSIONS (mm)**

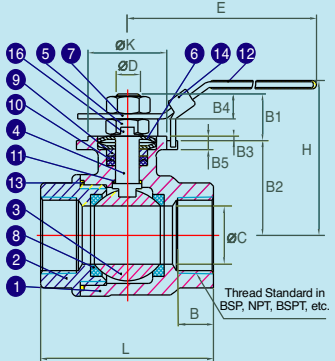
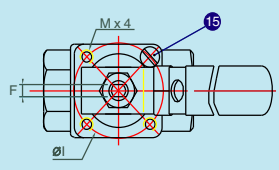
SIZE	B1	B3	B4	ØC	J	E	F	F1	H	L	W1	W2	W (kg)
1/4"	22.3	8	9.8	11.5	8	100	5.0	15	50	55	12.7	28.5	0.23
3/8"	22.3	8	9.8	12.5	8	100	5.0	15	50	55	12.7	28.5	0.23
1/2"	25.6	10.5	11	15.0	9.5	130	6.5	16	60	65	12.7	28.5	0.38
3/4"	25.6	10.5	11	20.0	9.5	130	6.5	17	64	74.6	22.4	35.0	0.52
1"	31.5	11.5	13.5	25.0	11	165	8.0	20.4	71	88	23.4	35.0	0.92
1 1/4"	31.5	11.5	13.5	32.0	11	165	8.0	22	78	102	25.4	38.1	1.32
1 1/2"	35.1	12	15.6	38.0	14	190	9.7	22.5	86	110	25.4	38.1	1.90
2"	30.6	9.5	15.6	50.0	14	190	9.7	26	95	125	25.4	38.1	3.12

**SERIES 20-50**

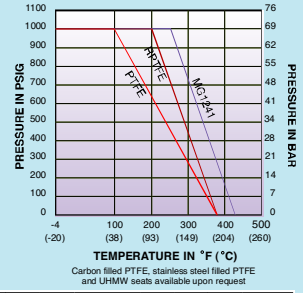
**MATERIALS LIST**

NO.	PART NAME	MATERIAL	QTY
1	Body	ASTM A351 Gr. CF8M	1
2	End Cap	ASTM A351 Gr. CF8M	1
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	Thrust Washer	PTFE	1
12	Handle Sleeve	VINYL	1
13	Joint Gasket	PTFE	1
14	Locking Device	SUS 304	1
15	Stop Pin	SUS 304	1
16	Lock Saddle	SUS 304	1

§ 1 Set of v-ring packing consists of 2pcs of v-ring



**Pressure Vs. Temperature Chart**



**DIMENSIONS (mm)**

SIZE	B	B1	B2	B3	B4	B5	ØC	ØD	E	F	H	Ø1	ØK	L	M	ISO5211
1/4"	15	17.9	27.5	2	10.0	5	11.5	9.5	130	6.5	69	36	25	65.0	M5	F03
3/8"	15	17.9	27.5	2	10.0	5	12.5	9.5	130	6.5	69	36	25	65.0	M5	F03
1/2"	16	17.9	27.5	2	10.0	5	15.0	9.5	130	6.5	69	36	25	65.0	M5	F03
3/4"	17	19.8	32.6	2	11.0	5	20.0	9.5	130	6.5	75	36	25	74.5	M5	F03
1"	20	16.2	44.0	2	9.0	6	25.0	11.0	160	8.0	90	42	30	88.0	M5	F04
1 1/4"	22	16.1	49.6	2	8.4	6	32.0	11.0	160	8.0	96	42	30	102.0	M5	F04
1 1/2"	22.5	22.9	54.1	2	10.4	6	38.0	14.0	207	9.7	105	50	35	110.0	M6	F05
2"	26	23	62.5	2	10.5	6	50.0	14.0	207	9.7	114	50	35	127.5	M6	F05
2 1/2"	31	29.9	83.6	2	15.3	8	65.0	19.0	260	12.0	154	70	55	160.8	M8	F07
3"	34	31.6	92.3	2	17	8	80.0	19.0	260	12.0	163	102	70	178.0	M10	F10



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