

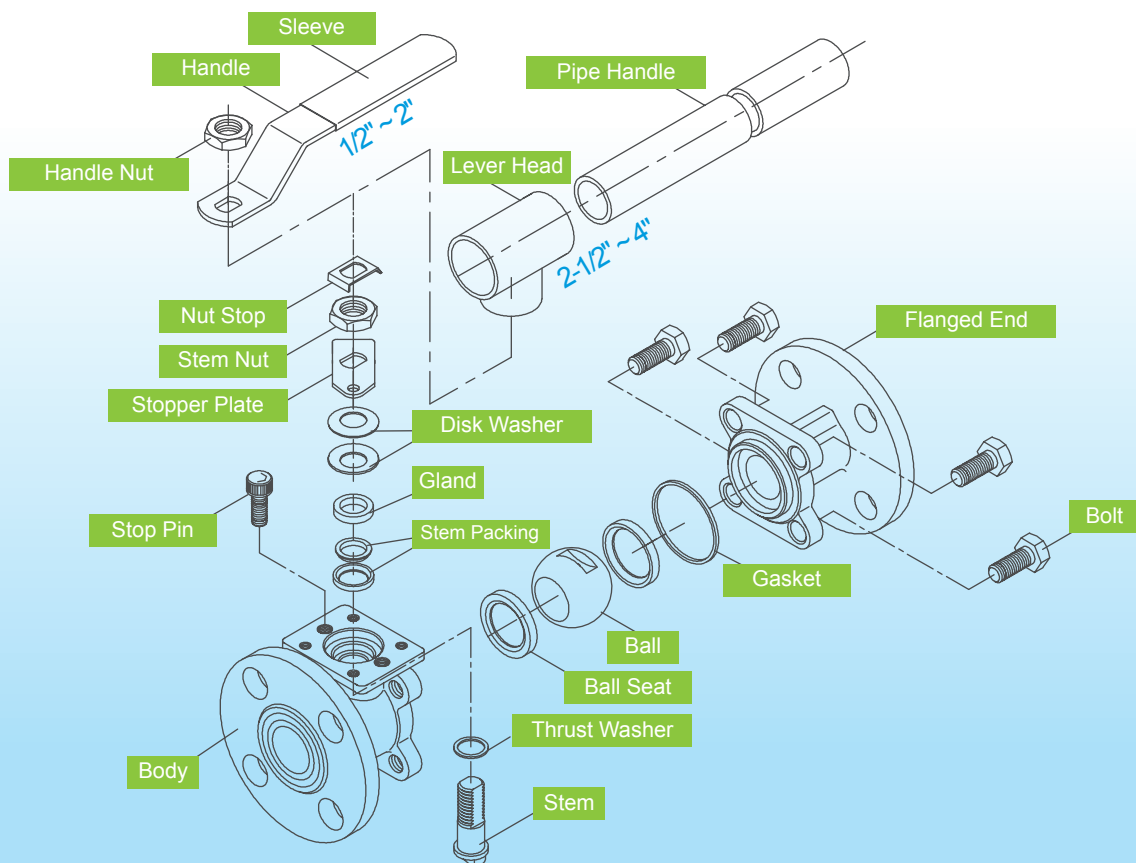
SPECIAL ALLOY
22F - 2 Piece Flanged Ball Valve

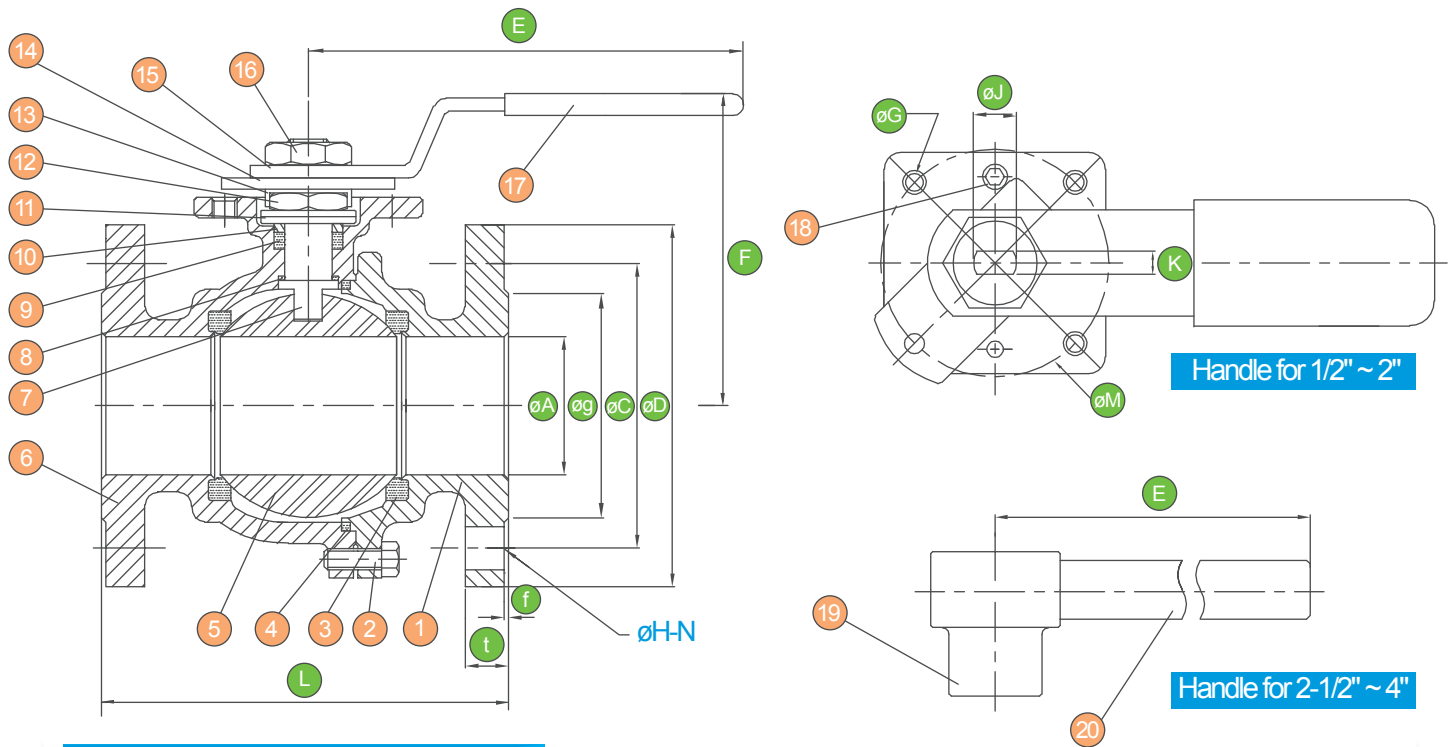
22F - 1/2" ~ 4"
Specification

Available Material	CF8M / WCB / 2205 / 2507 / Zeron100 / 904L / 254 SMO / Alloy 20 / Monel 400 / Hastelloy B / Hastelloy B-2 / Hastelloy C-276
Ball Bore	Full
End Connection	ANSI150 / ANSI300 / PN16 / PN40
Size Range	CF8M & WCB - 1/2" to 12" Special Alloy - 1/2" to 4"
ISO Mount	Not Direct

Additional Information

Packing Design	Adjustable
Stem Design	Blow-out proof
Operation	Handle / Gear Operator / Actuator
Options	PTFE Coating / Steam Jacket / Cavity Filler / V ball, 30°, 60°, 90°




DIMENSIONS(mm), ASME150

SIZE	A	F	E	L	K	M	G	J	CLASS 150 FLANGE DIMENSIONS						
									D	C	H	N	t	g	f
1/2"	15	76	145	108	6.5	42	M5	10	89	60.5	16	4	11.2	35	1.6
3/4"	20	80	145	117	6.5	42	M5	10	98	70	16	4	11.2	43	1.6
1"	25	88	195	127	9.7	50	M6	14	108	79.5	16	4	11.2	51	1.6
1-1/4"	32	92	195	140	9.7	50	M6	14	117	89	16	4	12.7	64	1.6
1-1/2"	38	114	250	165	9.7	70	M8	18	127	98.5	16	4	14.3	73	1.6
2"	50	123	250	178	9.7	70	M8	18	152	120.5	19	4	15.9	92	1.6
2-1/2"	65	142	310	190	12	102	M10	20	178	139.5	19	4	17.8	105	1.6
3"	80	152	310	203	12	102	M10	20	190	152.5	19	4	19.1	127	1.6
4"	100	182	310	229	15	102	M10	24	229	190.5	19	8	24.0	157	1.6

DIMENSIONS(mm), ASME300

SIZE	A	F	E	L	K	M	G	J	CLASS 300 FLANGE DIMENSIONS						
									D	C	H	N	t	g	f
1/2"	15	76	145	140	6.5	42	M5	10	95	66.5	16	4	14.5	35	1.6
3/4"	20	80	145	152	6.5	42	M5	10	117	82.5	19	4	16	43	1.6
1"	25	88	195	165	9.7	50	M6	14	124	89	19	4	17.5	51	1.6
1-1/4"	32	92	195	180	9.7	50	M6	14	134	98.5	19	4	19.5	64	1.6
1-1/2"	38	114	250	190	9.7	70	M8	18	156	114.5	22	4	21	73	1.6
2"	50	123	250	216	9.7	70	M8	18	165	127	20	8	22.5	92	1.6
2-1/2"	65	142	310	241	12	102	M10	20	190	149	22	8	25.5	105	1.6
3"	80	152	310	283	12	102	M10	20	210	168	22	8	29	127	1.6
4"	100	182	310	305	15	102	M10	24	254	200	22	8	32	157	1.6



DIMENSIONS(mm), PN16

SIZE	A	F	E	L(F4)	K	M	G	J	PN16 FLANGE DIMENSIONS						
									D	C	H	N	t	g	f
1/2"	15	76	145	115	6.5	42	M5	10	95	65	14	4	14	45	2
3/4"	20	80	145	120	6.5	42	M5	10	105	75	14	4	16	58	2
1"	25	88	195	125	9.7	50	M6	14	115	85	14	4	16	68	2
1-1/4"	32	92	195	130	9.7	50	M6	14	140	100	18	4	16	78	2
1-1/2"	38	114	250	140	9.7	70	M8	18	150	110	18	4	16	88	3
2"	50	123	250	150	9.7	70	M8	18	165	125	18	4	18	102	3
2-1/2"	65	142	310	170	12	102	M10	20	185	145	18	4	18	122	3
3"	80	152	310	180	12	102	M10	20	200	160	18	8	20	138	3
4"	100	182	310	190	15	102	M10	24	220	180	18	8	20	158	3

DIMENSIONS(mm), PN40

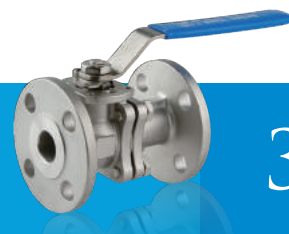
SIZE	A	F	E	L(F4)	K	M	G	J	PN40 FLANGE DIMENSIONS						
									D	C	H	N	t	g	f
1/2"	15	76	145	115	6.5	42	M5	10	95	65	14	4	16	45	2
3/4"	20	80	145	120	6.5	42	M5	10	105	75	14	4	18	58	2
1"	25	88	195	125	9.7	50	M6	14	115	85	14	4	18	68	2
1-1/4"	32	92	195	130	9.7	50	M6	14	140	100	18	4	18	78	2
1-1/2"	38	114	250	140	9.7	70	M8	18	150	110	18	4	18	88	3
2"	50	123	250	150	9.7	70	M8	18	165	125	18	4	20	102	3
2-1/2"	65	142	310	170	12	102	M10	20	185	145	18	8	22	122	3
3"	80	152	310	180	12	102	M10	20	200	160	18	8	24	138	3
4"	100	182	310	190	15	102	M10	24	235	190	22	8	24	158	3

MATERIAL LIST, ASME150 / 300

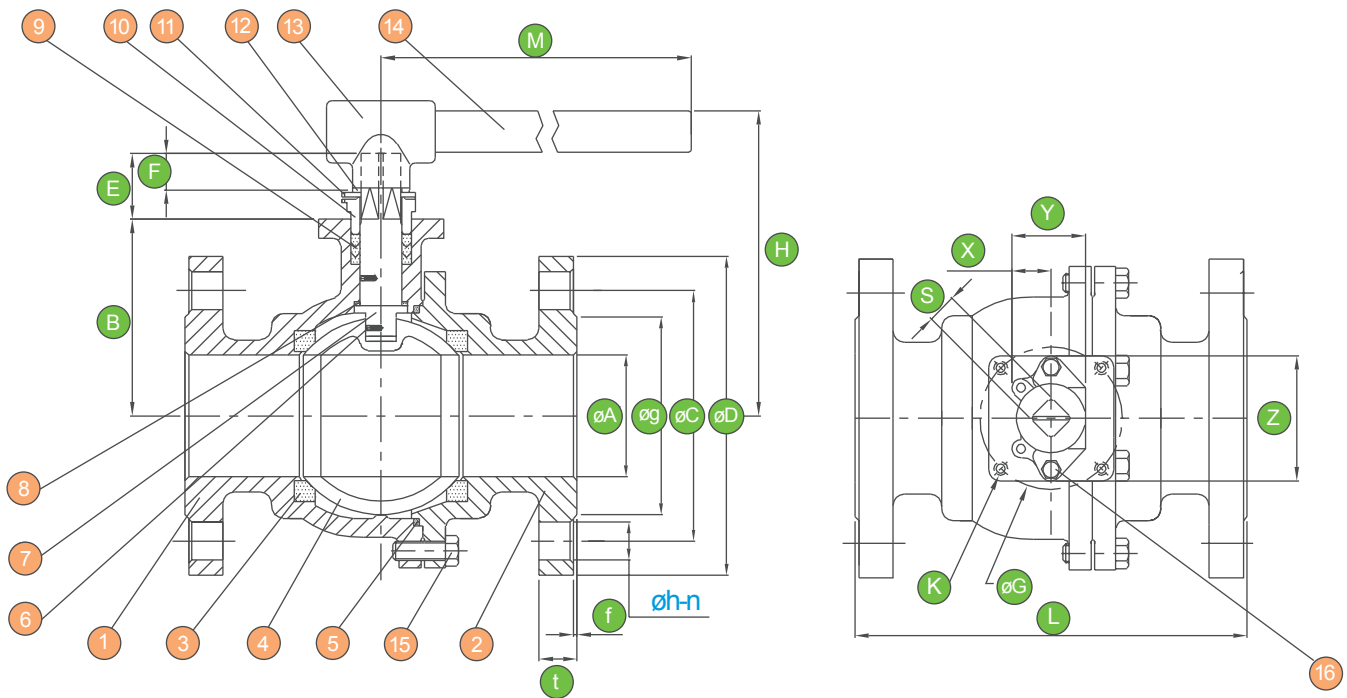
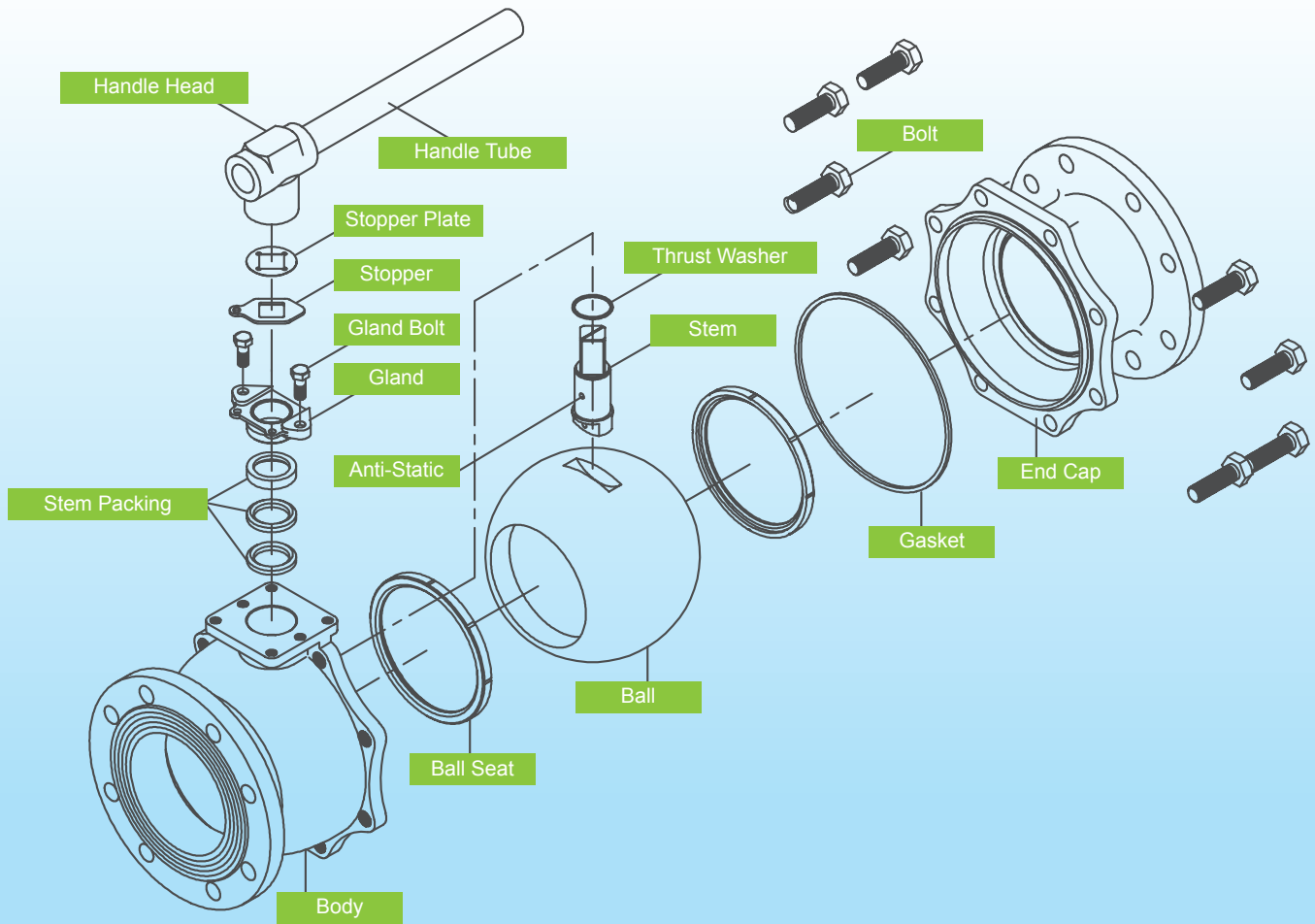
ITEM	PART NAME	MATERIALS
1	Flanged End	CF8M / WCB
2	Bolt	SS 304
3	Ball Seat	PTFE
4	Gasket	PTFE
5	Ball	SS 316 / SS 304
6	Body	CF8M / WCB
7	Stem	SS 316 / SS 304
8	Thrust Washer	RPTFE
9	Stem Packing	PTFE
10	Gland	SS 304
11	Disk Washer	SS 301
12	Stem Nut	SS 304
13	Nut Stop	SS 304
14	Stopper Plate	SS 304
15	Handle	SS 304
16	Handle Nut	SS 304
17	Sleeve	Plastic
18	Stop Pin	SS 304
19	Lever Head	SS 304
20	Lever	STEEL PIPE

MATERIAL LIST, PN16 / PN40

ITEM	PART NAME	MATERIALS
1	Flanged End	1.4408 / 1.0619
2	Bolt	SS 304
3	Ball Seat	PTFE
4	Gasket	PTFE
5	Ball	SS 316 / SS 304
6	Body	1.4408 / 1.0619
7	Stem	SS 316 / SS 304
8	Thrust Washer	RPTFE
9	Stem Packing	PTFE
10	Gland	SS 304
11	Disk Washer	SS 301
12	Stem Nut	SS 304
13	Nut Stop	SS 304
14	Stopper Plate	SS 304
15	Handle	SS 304
16	Handle Nut	SS 304
17	Sleeve	Plastic
18	Stop Pin	SS 304
19	Lever Head	SS 304
20	Lever	STEEL PIPE



22F - 5" ~ 12"



DIMENSIONS(mm), ASME150

SIZE	A	B	E	F	G	H	M	L	K	S	X	Y	Z	CLASS 150 FLANGE DIMENSIONS						
														D	C	n	h	g	t	f
5"	125	150	58	34	125	265	700	356	M12	28	35.5	65.5	114	254	216	8	22	186	23.9	1.6
6"	150	170	58	34	125	285	850	394	M12	28	35.5	65.5	114	279	241.5	8	22	216	25.4	1.6
8"	200	219	64	38	125	354	1100	457	M12	36	43	78	124	343	298.5	8	22	270	28.6	1.6
10"	250	255	64	38	125	390	1200	533	M12	36	43	78	124	406	362	12	25	324	30.2	1.6
12"	300	307	79	46	140	442	1500	610	M16	36	43	80.5	140	483	432	12	25	381	31.8	1.6

DIMENSIONS(mm), ASME300

SIZE	A	B	E	F	G	H	M	L	K	S	X	Y	Z	CLASS 300 FLANGE DIMENSIONS						
														D	C	n	h	g	t	f
6"	150	174.5	53.5	31.5	125	288	850	403	M12	28	35.5	65.5	114	318	270	12	22	216	37	1.6
8"	200	219.5	64	38	125	343	1100	502	M12	36	43	78	124	381	330.2	12	26	270	41.5	1.6
10"	250	255	64	38	125	379	1200	568.5	M12	36	43	78	124	445	387.3	16	29	324	48	1.6

DIMENSIONS(mm), PN16 (F5)

SIZE	A	B	E	F	G	H	M	L	K	S	X	Y	Z	PN16 FLANGE DIMENSIONS						
														D	C	n	h	g	t	f
5"	125	150	58	34	125	265	700	325	M12	28	35.5	65.5	114	250	210	8	18	188	22	3
6"	150	170	58	34	125	285	850	350	M12	28	35.5	65.5	114	285	240	8	22	212	22	3
8"	200	219	64	38	125	354	1100	400	M12	36	43	78	124	340	295	12	22	268	24	3
10"	250	255	64	38	125	390	1200	450	M12	36	43	78	124	405	355	12	26	320	26	3
12"	300	307	79	46	140	442	1500	500	M16	36	43	80.5	140	460	410	12	26	378	28	4

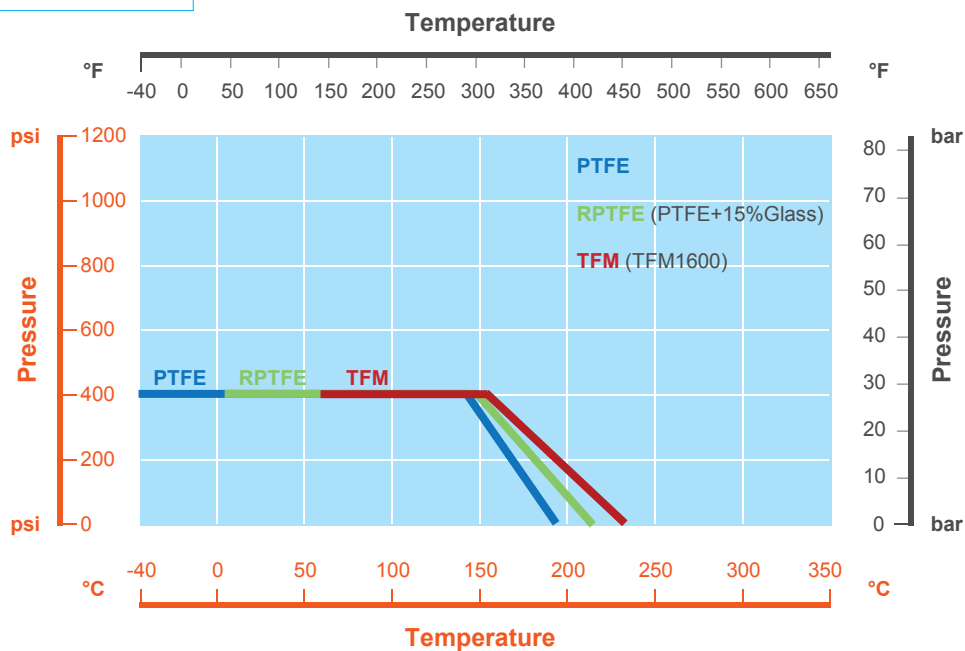
MATERIAL LIST

ITEM	PART NAME	MATERIALS
1	Body	A351 Gr.CF8M
2	End Cap	A351 Gr.CF8M
3	Ball Seat	PTFE
4	Ball	SS 316
5	Gasket	PTFE
6	Anti-Static	SS 316
7	Stem	SS 316
8	Thrust Washer	RPTFE
9	Stem Packing	PTFE
10	Gland	CF8
11	Stopper	SS 304
12	Stopper Plate	SS 304
13	Handle Head	FCD45
14	Handle Tube	CARBON STEEL
15	Bolt	SS 304
16	Gland Bolt	SS 304

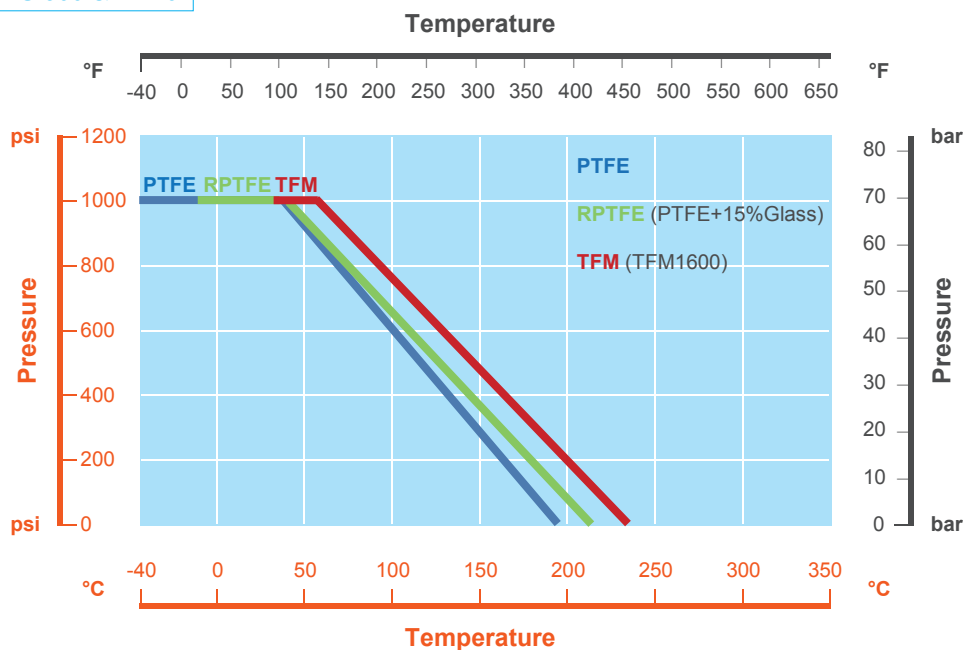


PRESSURE & TEMPERATURE

ANSI150 & PN16



ANSI300 & PN40



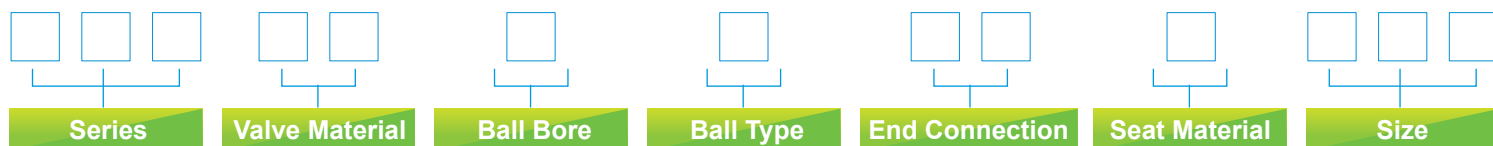
BREAK-TORQUE VALUE (Nm)

	SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
ANSI150 / PN16	GREASE	8	10	12	18	27	33	73	84	168	311	338	486	817	1188
	NON-GREASE	10	13	18	25	41	49	129	179	331	—	—	—	—	—
ANSI300 / PN40	GREASE	12	14	18	—	37	46	97	115	212	—	—	—	—	—
	NON-GREASE	16	19	26	—	59	82	193	240	445	—	—	—	—	—

Remark : The above break-torque value has included safety factor (30%~40%)



HOW TO ORDER



Valve Material	
01	CF8M
02	CF3M
03	WCB
04	904L
05	254 SMO
06	2205
07	2507
08	Zeron100
09	Alloy 20
10	Monel 400
11	Hastelloy B
12	Hastelloy B-2
13	Hastelloy C-276

Ball Bore	
F	Full port
S	Standard port

Ball Type	
L	L-port
T	T-port
X	X-port
I	I-port

End Connection	
01	NPT
02	BSP
03	BSPT
04	Socket Weld
05	Butt Weld
06	ANSI150
07	ANSI300
08	PN16
09	PN40
10	JIS10K
11	JIS20K
12	T-clamp end
13	Tube weld end

Seat Material	
A	PTFE
B	RPTFE (PTFE+15%Glass Fiber)
C	PTFE+25%Carbon
D	PTFE+50%SS
E	TFM1600
F	TFM4215 (TFM1600+25%Carbon)
G	DELIRIN
H	PEEK

Size	
08	1/4"
10	3/8"
15	1/2"
20	3/4"
25	1"
32	1-1/4"
40	1-1/2"
50	2"
65	2-1/2"
80	3"
100	4"
125	5"
150	6"
200	8"
250	10"
300	12"

