

MULTI WAY
M5S - Multi Way Sanitary Ball Valve

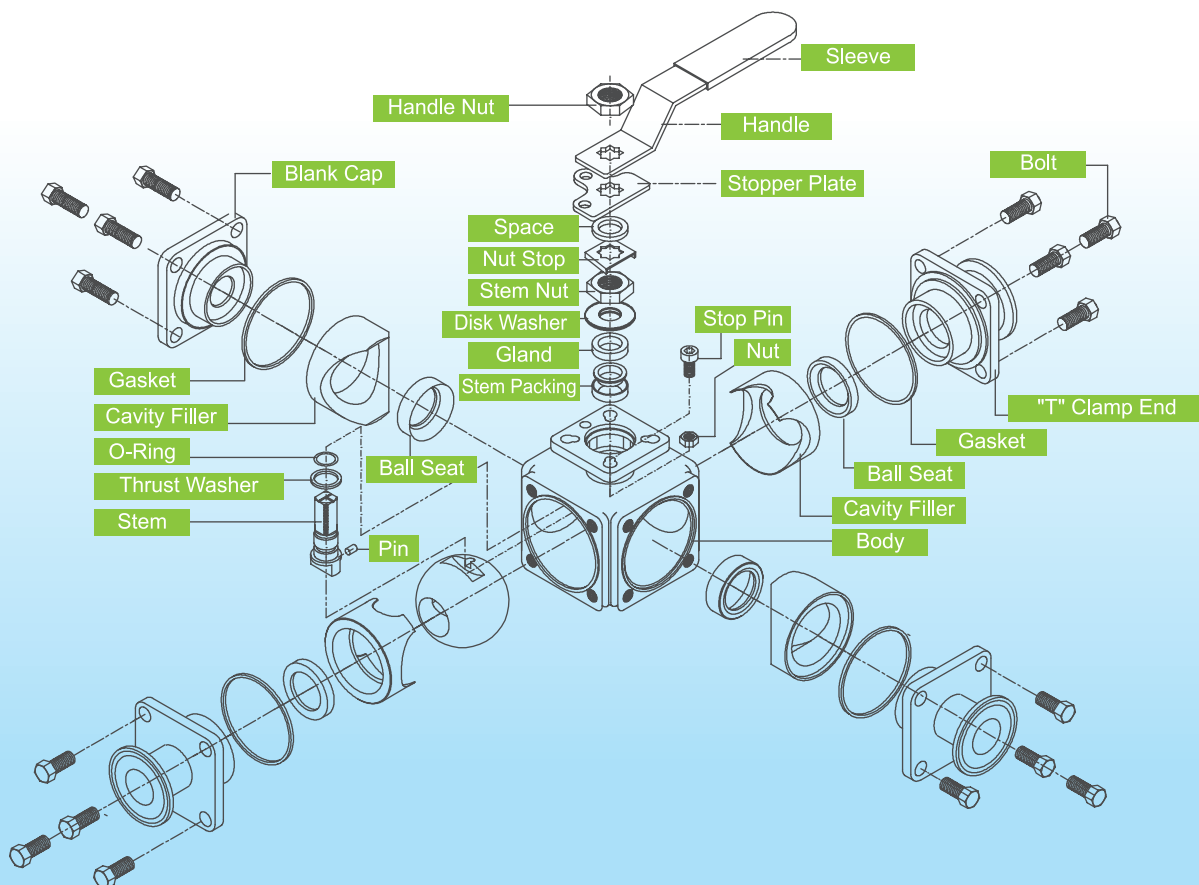
M5S - 1/2" ~ 2"
Specification

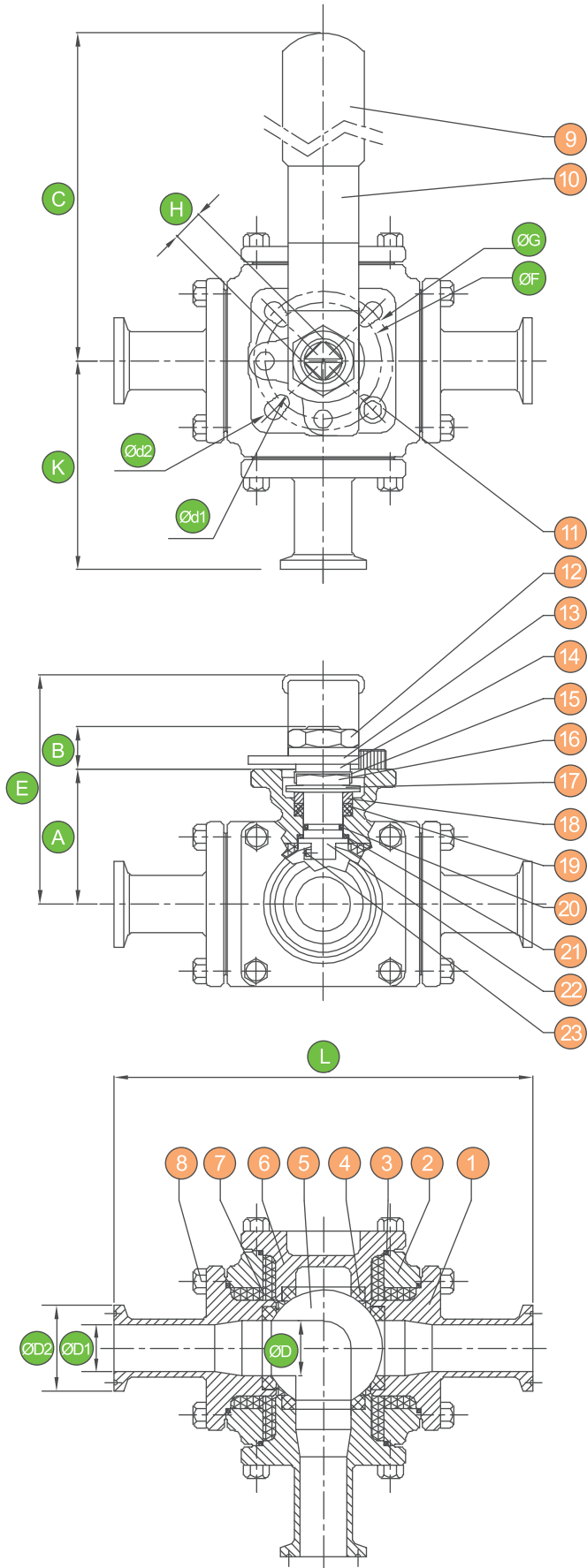
Available Material	CF8M / CF3M (SS316L)
Working Pressure	1000 / 800 PSI
Available Ball Type	L / T / X / I Port
End Connection	T-Clamp / Tube Weld
Size Range	1/2" to 4"
ISO Mount	Direct

Additional Information

Packing Design	Adjustable
Stem Design	Blow-out proof
Operation	Handle / Actuator / Gear Operator
Options	PTFE Coating / 180° Operation / Steam Jacket / Non-Cavity Filler

Remark : M5S is also available in special alloy materials upon request





MATERIAL LIST

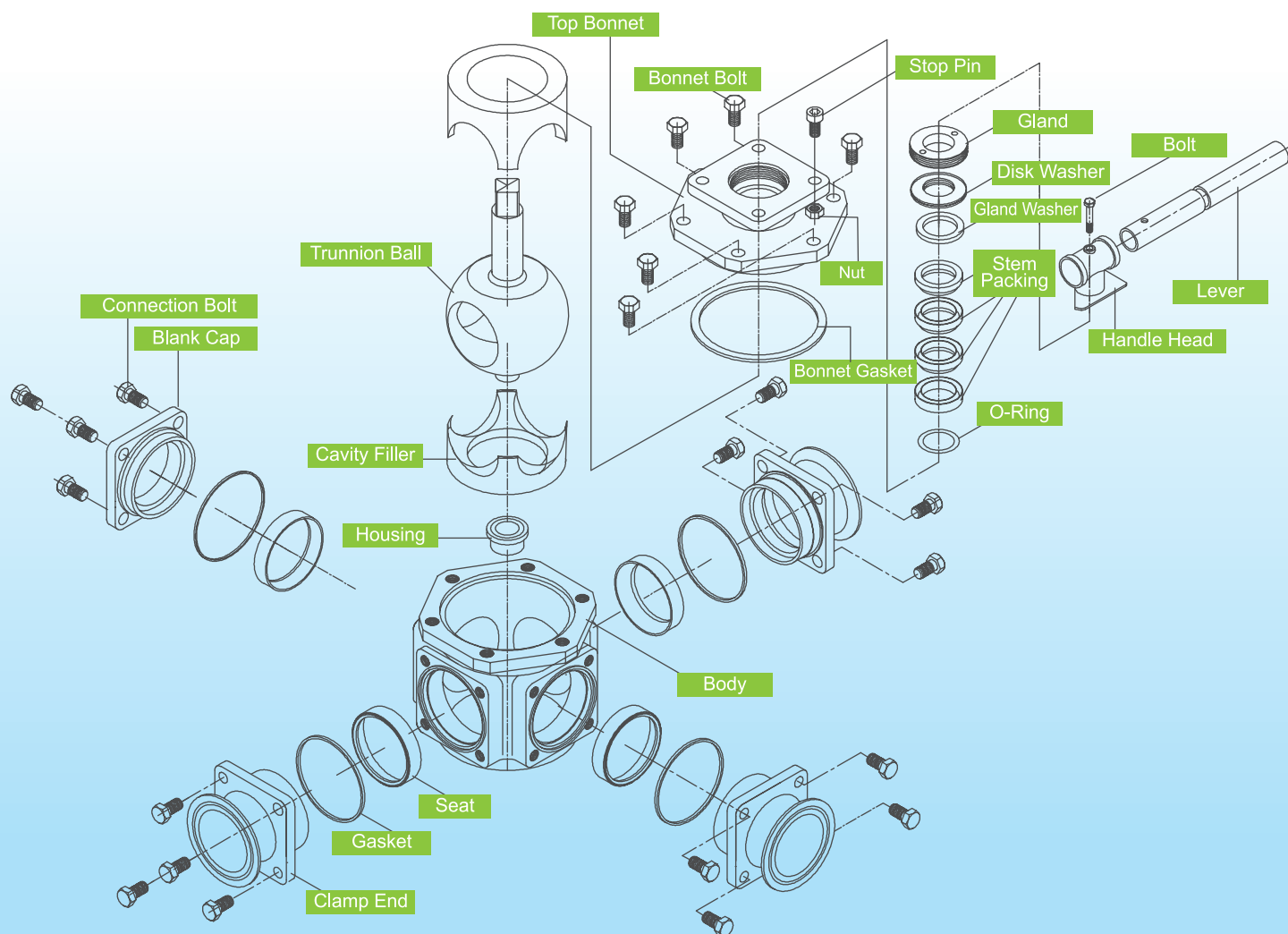
ITEM	PART NAME	MATERIALS
1	T Clamp	A351 Gr. CF8M
2	Body	A351 Gr. CF8M
3	Gasket	PTFE
4	Ball Seat	PTFE
5	Ball	SS 316
6	Blank Cap	A351 Gr. CF8M
7	Cavity Filler	PTFE
8	Connection Bolt	SS 304
9	Sleeve	Plastic
10	Handle	SS 304
11	Stop Pin	SS 304
12	Handle Nut	SS 304
13	Stopper Plate	SS 304
14	Space	SS 304
15	Nut Stop	SS 304
16	Stem Nut	SS 304
17	Disk Washer	SS 301
18	Gland	SS 304
19	Stem Packing	PTFE
20	O-Ring	VITON
21	Thrust Washer	PTFE
22	Stem	SS 316
23	Pin	SS 316

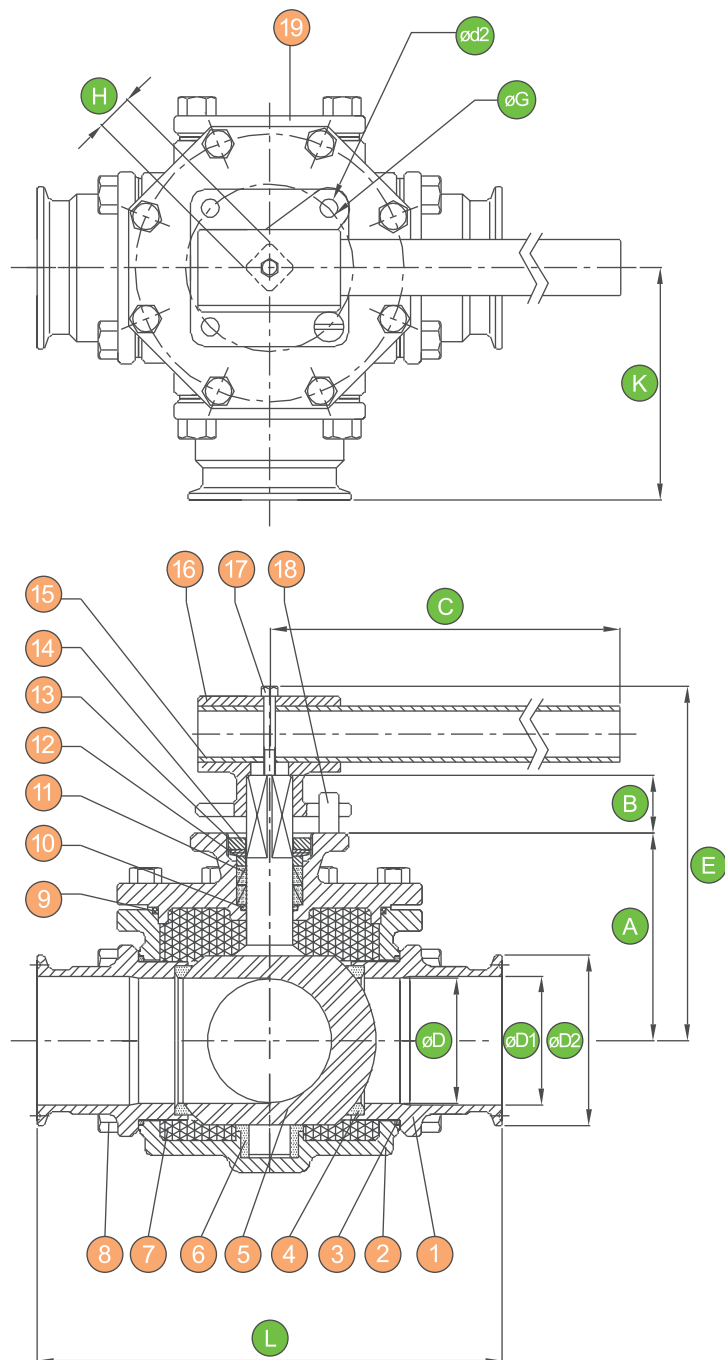


DIMENSIONS(mm)

SIZE	A	B	C	d1	d2	E	F	G	H	K	L	D	D1	D2
1/2"	37.5	9.5	130	6.0	6.0	62	36	42	9	60	120	12	9.6	25
3/4"	42	11	130	6.0	6.0	64	36	42	9	68	136	15	15.8	25
1"	55.5	14	165	6.0	7.1	89	42	50	11	80	160	25	21.6	50.4
1-1/2"	73.5	16	205	7.1	9.2	108	50	70	14	91	182	38	34.8	50.4
2"	92.5	21	325	9.2	11.4	140	70	102	17	108	216	50	47.5	63.9

M5S - 2-1/2" ~ 4"





MATERIAL LIST

ITEM	PART NAME	MATERIALS
1	T Clamp	A351 Gr. CF8M
2	Body	A351 Gr. CF8M
3	Gasket	PTFE
4	Ball Seat	PTFE
5	Ball & Stem	SS 316
6	Housing	PTFE+STAINLESS
7	Cavity Filler	PTFE
8	Connection Bolt	SS 304
9	Bonnet Gasket	PTFE
10	O-Ring	VITON
11	Stem Packing	PTFE
12	Gland Washer	SS 304
13	Disk Washer	SS 301
14	Gland	SS 304
15	Lever	CARBON STEEL
16	Handle Head	A351 Gr.CF8
17	Bolt	SS 304
18	Stop Pin	SS 304
19	Blank Cap	A351 Gr.CF8M

DIMENSIONS(mm)

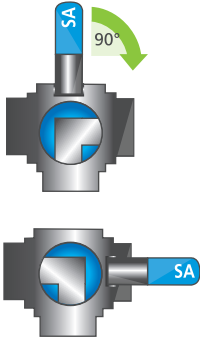
SIZE	A	B	C	d2	E	G	H	K	L	D	D1	D2
2-1/2"	118	26	400	11.4	190	102	22	120.6	241.3	62	60.2	77.4
3"	136.5	25	500	11.4	207	102	22	139.7	279.4	76	72.9	91
4"	156.5	25	650	11.4	227	102	22	165.1	330.2	96	97.4	119



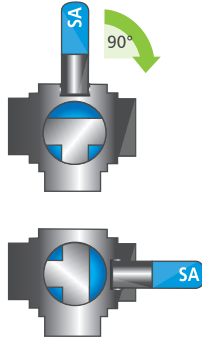
FLOW PATTERN

3 way

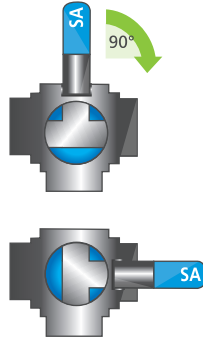
STANDARD
L3 - 90°



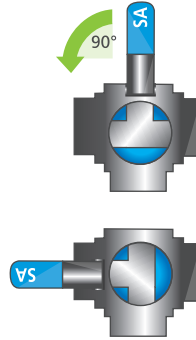
STANDARD
T3 - 90°



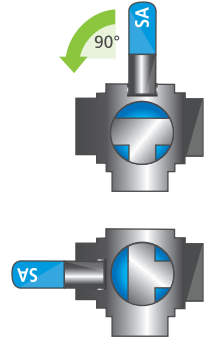
T4 - 90°



T5 - 90°

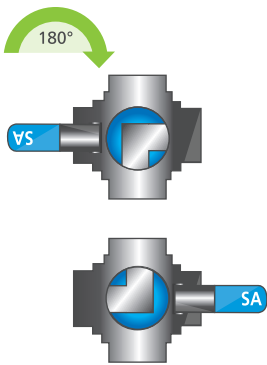


T6 - 90°

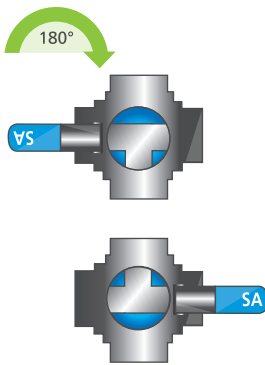


4 way

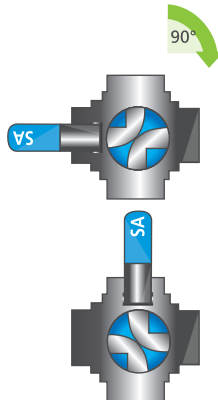
L5 - 180°



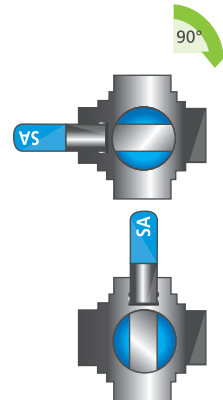
T5 - 180°



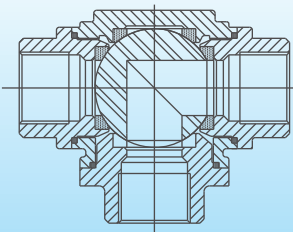
X - 90°



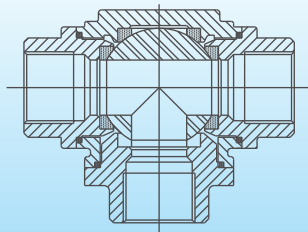
I - 90°



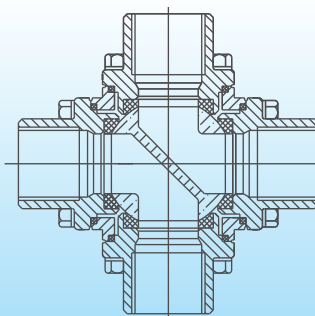
OPTION



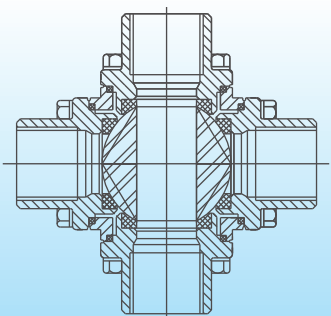
L-port



T-port

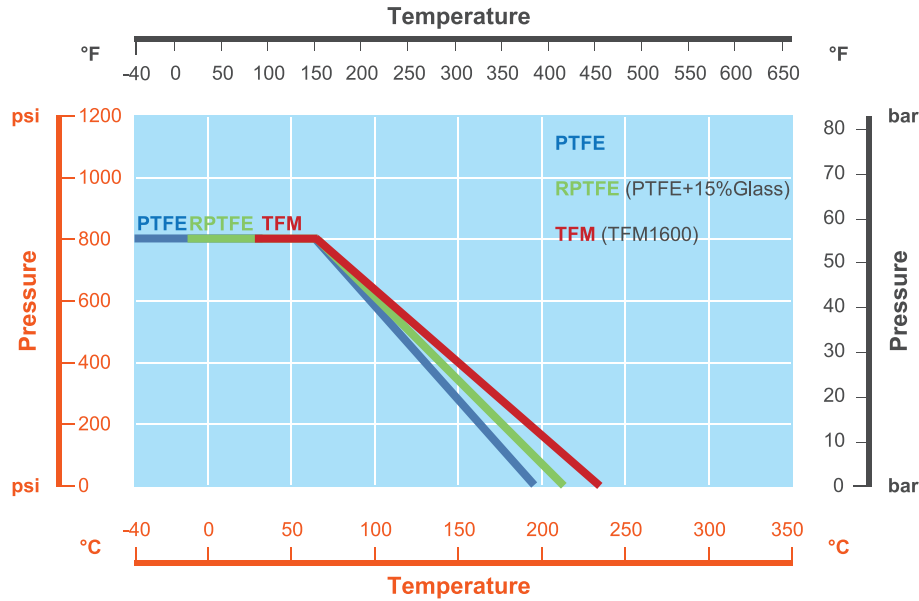


X(LL)-port



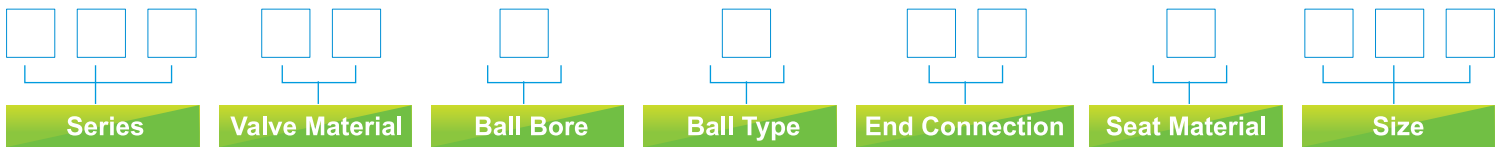
I-port



PRESSURE & TEMPERATURE

BREAK-TORQUE VALUE (Nm)

SIZE	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"
NON-GREASE	25	26	47	100	156	354	406	520

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	DELFIN
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"

