

MULTI WAY
M5T - Multi Way Threaded Ball Valve

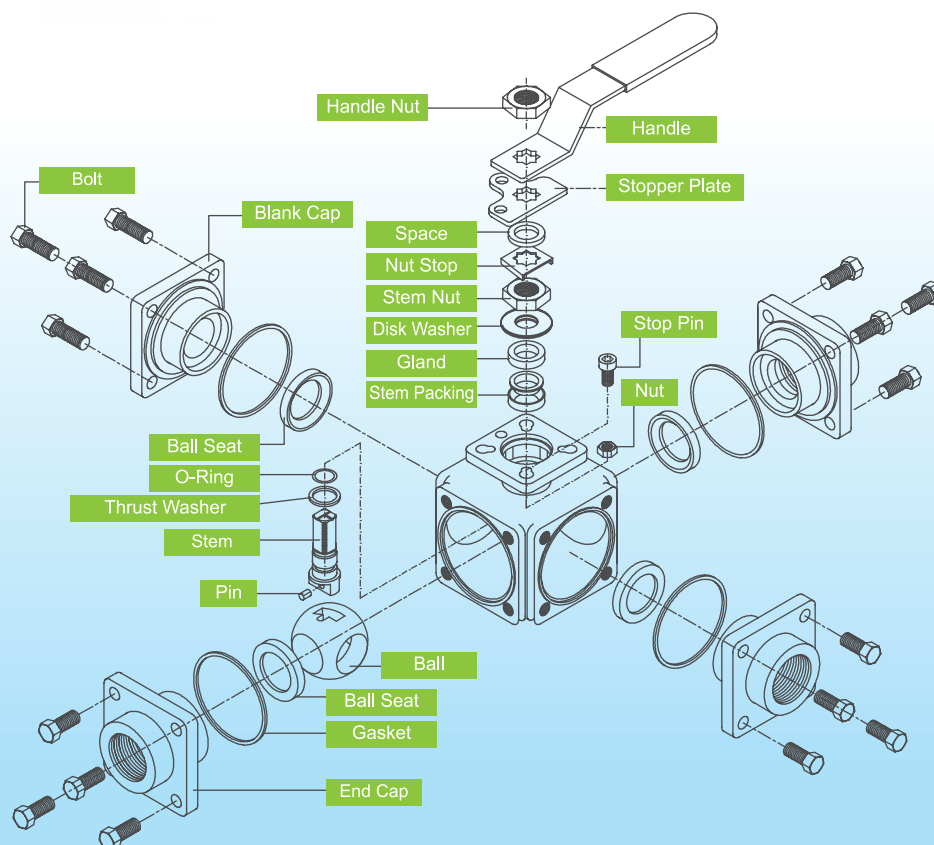
M5T - 1/2" ~ 2"
Specification

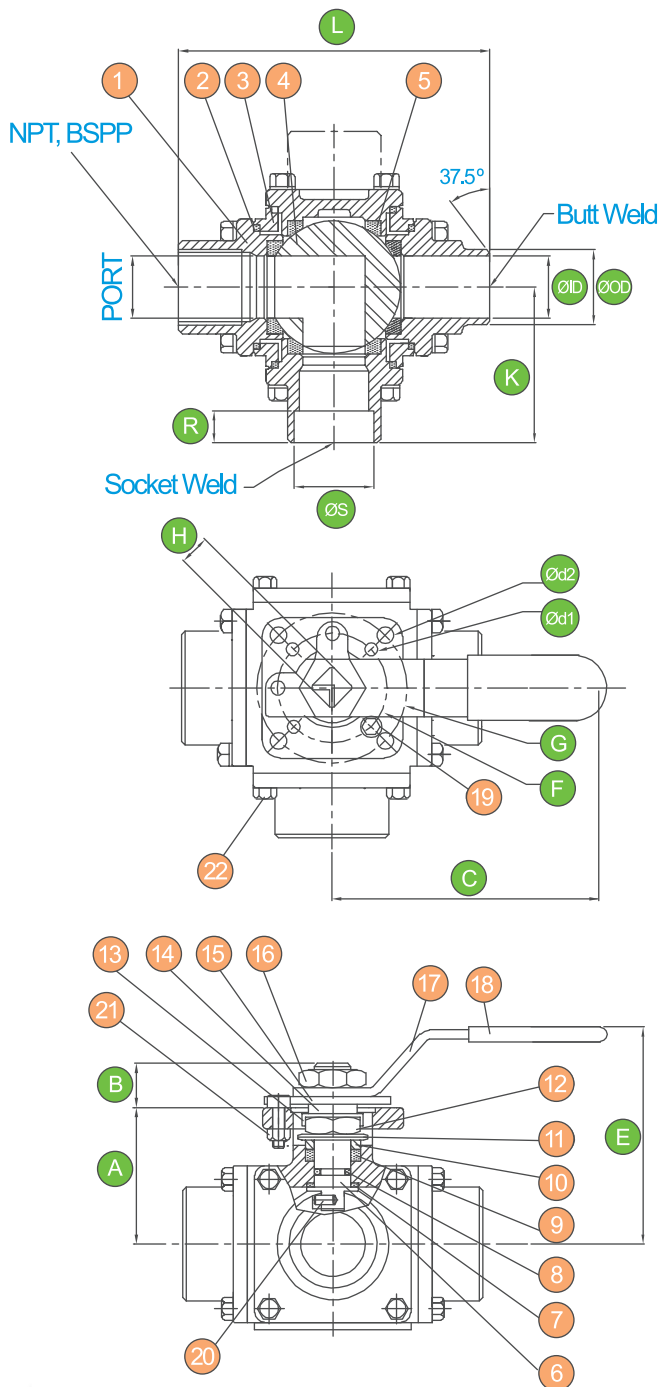
Available Material	CF8M / WCB
Working Pressure	1000 / 800 PSI
Ball Bore	Full / Standard
Available Ball Type	L / T / X / I Port
End Connection	Threaded / Socket Weld / Butt Weld
Size Range	1/4" to 4"
ISO Mount	Direct

Additional Information

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

Remark : M5T is also available in special alloy materials upon request




MATERIAL LIST

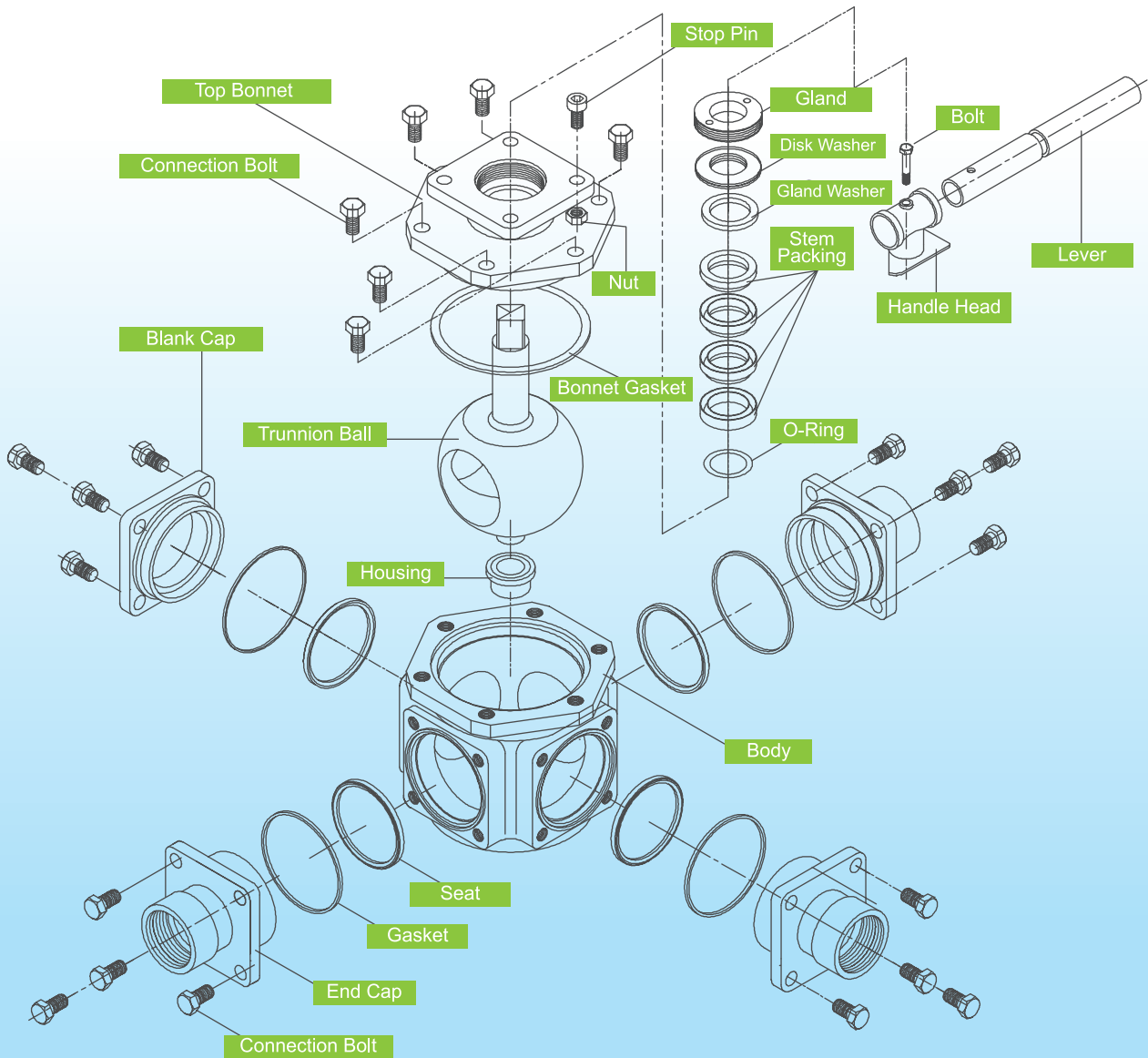
ITEM	PART NAME	MATERIALS
1	End Cap	A351 Gr. CF8M
2	Gasket	PTFE / TFM
3	Body	A351 Gr. CF8M
4	Ball	SS 316
5	Seat	PTFE / TFM
6	Stem	SS 316
7	Thrust Washer	RPTFE
8	O-Ring	VITON
9	Stem Packing	PTFE / TFM
10	Gland	SS 304
11	Disk Washer	SS 301
12	Stem Nut	SS 304
13	Nut Stop	SS 304
14	Space Washer	SS 304
15	Stopper Plate	SS 304
16	Handle Nut	SS 304
17	Handle	SS 304
18	Sleeve	Plastic
19	Stop Pin	SS 304
20	Pin	SS 316
21	Stop Pin Nut	SS 304
22	Bolt	B8

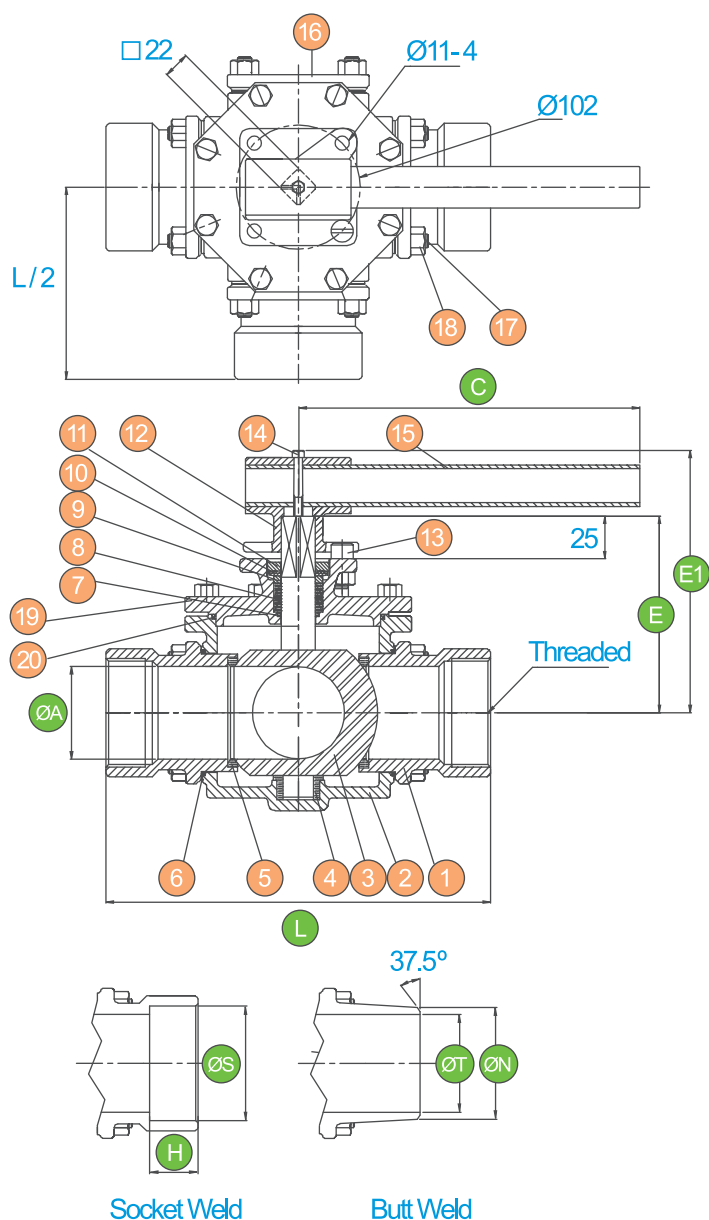
DIMENSIONS(mm)

FULL PORT	STD. PORT	A	B	C	d1	d2	E	F	G	H	K	L	PORT	SW		BW(Sch.40)		BW(Sch.80)	
														R	S	øID	øOD	øID	øOD
1/4"	—	37.5	9.5	130	6.0	6.0	62	36	42	9	43.5	87	11	11.1	14.2	10	17.5	7.5	17.5
3/8"	1/2"	37.5	9.5	130	6.0	6.0	62	36	42	9	43.5	87	12	11.1	17.5	12	20.0	10.8	20.0
1/2"	3/4"	42	11	130	6.0	6.0	64	36	42	9	52	104	15	12.7	21.7	15	22.5	13.8	22.5
3/4"	1"	48.5	14	165	6.0	7.1	82	42	50	11	55.5	111	20	14.3	27.1	20	28.5	18.9	28.5
1"	1-1/4"	55.5	14	165	6.0	7.1	89	42	50	11	63.5	127	25	15.9	33.9	25	34.5	24.3	34.5
1-1/4"	1-1/2"	63	17	205	7.1	9.2	98	50	70	14	69	138	32	17.5	42.5	32	43.5	32.5	43.5
1-1/2"	2"	73.5	16	205	7.1	9.2	108	50	70	14	79	158	38	19.1	48.6	38	49.5	38.1	49.5
2"	—	92.5	21	325	9.2	11.4	140	70	102	17	95	190	50	22.2	61.1	50	61.5	49.3	61.5



M5T - 2-1/2" ~ 4"




MATERIAL LIST

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

DIMENSIONS(mm)

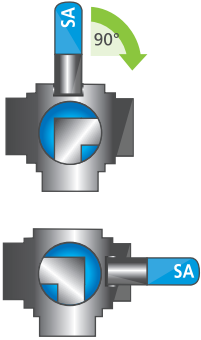
SIZE	A	C	E	E1	L		SW		BW(Sch.40)		BW(Sch.80)	
					SW / THREADED	BW	H	S	T	N	T	N
2-1/2"	62	400	144	200	294	265	22.2	73.9	65	78	59	78
3"	76	500	162	218	317	290	25.4	89.9	80	91.5	73.7	91.5
4"	96	650	182	238	369	345	32	115.2	100	117.5	97.1	117.5



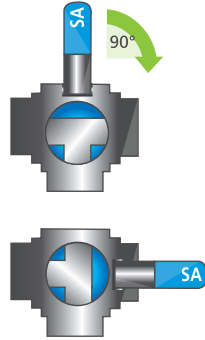
FLOW PATTERN

3 way

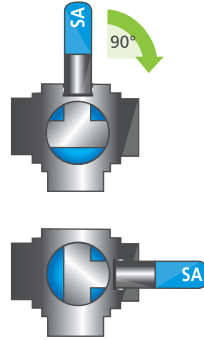
STANDARD
L3 - 90°



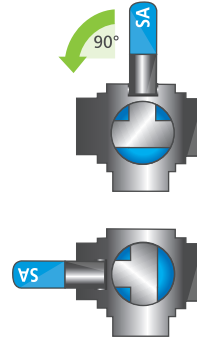
STANDARD
T3 - 90°



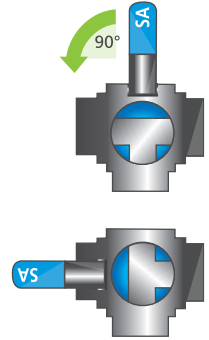
T4 - 90°



T5 - 90°

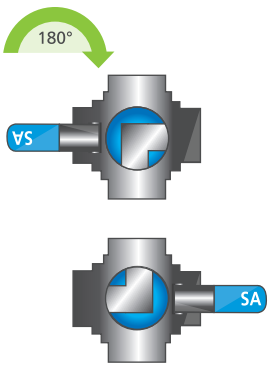


T6 - 90°

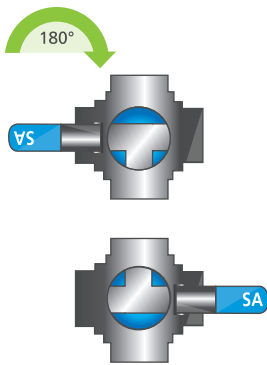


4 way

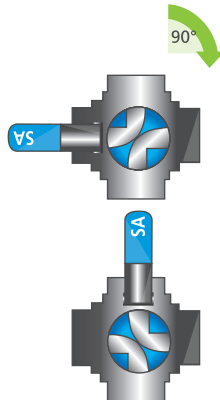
L5 - 180°



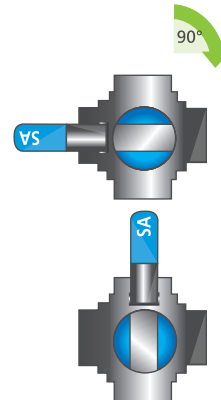
T5 - 180°



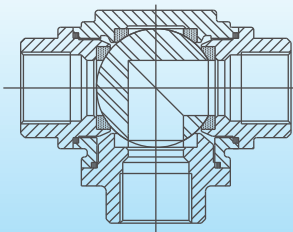
X - 90°



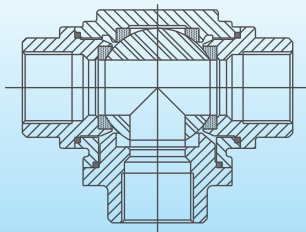
I - 90°



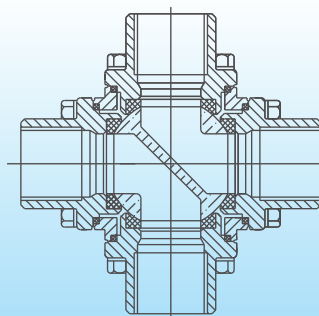
OPTION



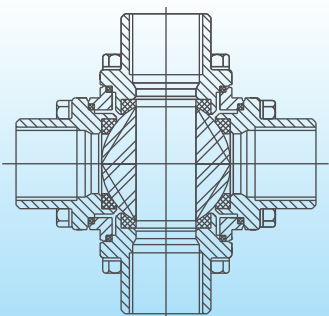
L-port



T-port



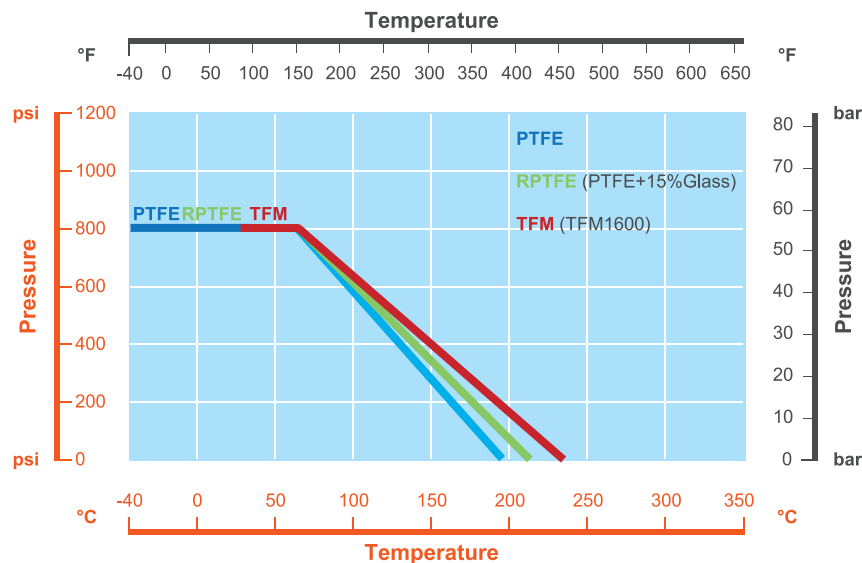
X(LL)-port



I-port



PRESSURE & TEMPERATURE

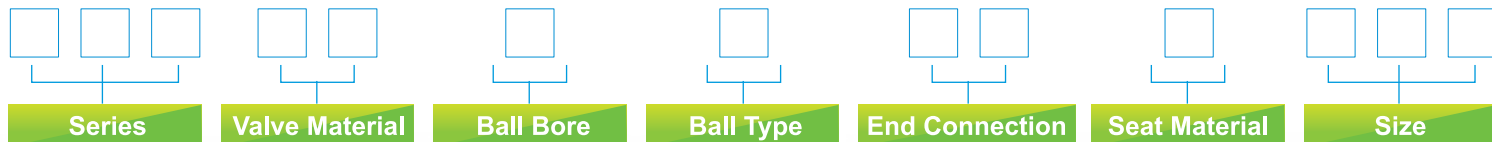


BREAK-TORQUE VALUE (Nm)

FULL BORE SIZE	1/4"	3/8"	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
STANDARD BORE SIZE	—	1/4"~1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	—	—	—	—
GREASE	14	14	18	21	34	47	75	97	182	200	321
NON-GREASE	21	21	22	27	45	56	86	130	310	349	578

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

HOW TO ORDER



Valve Material		Ball Bore		End Connection		Seat Material		Size	
01	CF8M	F	Full port	01	NPT	A	PTFE	08	1/4"
02	CF3M	S	Standard port	02	BSP	B	RPTFE (PTFE+15%Glass Fiber)	10	3/8"
03	WCB	Ball Type L L-port T T-port X X-port I I-port		03	BSPT	C	PTFE+25%Carbon	15	1/2"
04	904L			04	Socket Weld	D	PTFE+50%SS	20	3/4"
05	254 SMO			05	Butt Weld	E	TFM1600	25	1"
06	2205			06	ANSI150	F	TFM4215 (TFM1600+25%Carbon)	32	1-1/4"
07	2507			07	ANSI300	G	DELFIN	40	1-1/2"
08	Zeron100			08	PN16	H	PEEK	50	2"
09	Alloy 20			09	PN40			65	2-1/2"
10	Monel 400			10	JIS10K			80	3"
11	Hastelloy B			11	JIS20K			100	4"
12	Hastelloy B-2			12	T-clamp end			125	5"
13	Hastelloy C-276			13	Tube weld end			150	6"
								200	8"
								250	10"
								300	12"

