



Figure Numbers

Example:

12	TF	1	R	A	22666	-G	-NC
1	2	3	4	5	6	7	8

i.e. 12" 3PC Body Forged Trunnion Mounted Ball Valve, Class 150, Raised Face Flange End, A105 Body/Adapter, Nylon Seat Insert, Viton O-Ring, 316 Stem, 316 Ball, 316 Seat Ring, Gear Operation, NACE MR-01-75 Standard.

1 Valve Size

Full Bore

NPS	1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"
DN	15	20	25	40	50	65	80	100	125	150	200	250	300
Symbol	1/2	3/4	1	1-1/2	2	2-1/2	3	4	5	6	8	10	12
NPS	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	40"
DN	350	400	450	500	550	600	650	700	750	800	850	900	1000
Symbol	14	16	18	20	22	24	26	28	30	32	34	36	40

Reduced Bore

NPS	3/4*1/2"	1*3/4"	1-1/2*1"	2*1-1/2"	3*2"	4*3"	6*4"	8*6"	10*8"
DN	20*15	25*20	40*25	50*40	80*50	100*80	150*100	200*150	250*200
Symbol	3/4*1/2	1*3/4	1-1/2*1	2*1-1/2	3*2	4*3	6*4	8*6	10*8
NPS	12*10"	14*12"	16*14"	18*16"	20*18"	24*20"	30*24"	36*30"	40*34"
DN	300*250	350*300	400*350	450*400	500*450	600*500	750*600	900*750	1000*850
Symbol	12*10	14*12	16*14	18*16	20*18	24*20	30*24	36*30	40*34

2 Valve type

Symbol	Floating Ball Valve	Symbol	Trunnion Mounted Ball Valve
FC	2PC Body Cast Floating Ball Valve	TF	3PC Body Forged Trunnion Mounted Ball Valve
FR	1PC Body Cast Floating Ball Valve	TW	Welded Body Trunnion Mounted Ball Valve
FF	2PC Body Forged Floating Ball Valve	TT	Top Entry Forged Trunnion Mounted Ball Valve
FS	Small Sizes Forged Floating Ball Valve	TC	2PC Body Cast Trunnion Mounted Ball Valve
FM	Metal to Metal Seat Floating Ball Valve	TM	Metal to Metal Seat Trunnion Mounted Ball Valve
FY	Cryogenic Floating Ball Valve	TY	Cryogenic Trunnion Mounted Ball Valve

3 Nominal Pressure

Class	150	250	300	400	600	800	900	1500	2500
Symbol	1	2	3	4	6	8	9	15	25

4 End Type

Symbol	Type	Symbol	Type
R	Raised Face Flange	S	Socket Welding End
J	Ring Joint Flange	N	Screwed End
F	Flat Face Flange	SN	Socket Welding End x Screwed End
B	Butt-Welding End	W	Wafer

Figure Numbers



5 Body/Adapter Material

Material	Cast Forged	WCB A105	WCC B	LCB LF2 C	LCC D	LC3 V	WC1 U	WC6 F11 I	WC9 F22 J	C5 F5 K	C12 F9 L
Material	Cast Forged	CF8 F304	CF8M F316	CF3 F304L	CF3M F316L	CF8C F347	CN7M Alloy 20	MONEL		F321	F51 F53
Symbol		F	E	H	G	Q	S	M	N	P	T

6 Trim Material

Floating Ball

Seat		Stem		Ball	
Symbol	Material	Symbol	Material	Symbol	Material
1	PTFE	1	13Cr	1	13Cr
2	Nylon 1010	2	304	2	304
3	Delrin	3	A105/ENP*	3	A105/ENP*
4	PPL	4	17-4PH	4	17-4PH
5	Molon	5	4140/ENP*	5	4140/ENP*
6	PEEK	6	316	6	316
7	Nylon 12	7	304L	7	304L
		8	316L	8	316L
9	RPTFE	9	LF2/ENP*	9	LF2/ENP*
		A	4130/ ENP*	A	4130/ ENP*
		B	13Cr/Hard Cr	B	13Cr/Hard Cr
		C	F51	C	F51

Trunnion Mounted Ball

Seat Insert		O-Ring Seals		Stem		Ball		Seat Ring	
Symbol	Material	Symbol	Material	Symbol	Material	Symbol	Material	Symbol	Material
1	PTFE	1	NBR	1	13Cr	1	13Cr	1	13Cr
2	Nylon 1010	2	Viton-A	2	304	2	304	2	304
3	PEEK	3	Viton AED	3	A105/ENP*	3	A105/ENP*	3	A105/ENP*
4	PPL	4	Viton-B	4	17-4PH	4	17-4PH	4	17-4PH
5	Molon	5	HSN(H-NBR)	5	4140/ENP*	5	4140/ENP*	5	4140/ENP*
6	Devlon V	6	PTFE Coated Viton	6	316	6	316	6	316
7	Nylon 12	7	Viton GLT + AED	7	304L	7	304L	7	304L
		8	EPDM	8	316L	8	316L	8	316L
9	RPTFE			9	LF2/ENP*	9	LF2/ENP*	9	LF2/ENP*
				A	4130/ ENP*	A	4130/ ENP*	A	4130/ ENP*
				B	13Cr/Hard Cr	B	13Cr/Hard Cr	B	13Cr/Hard Cr
				C	F51	C	F51	C	F51

* ENP thickness 0.003" is our standard ; thickness 0.001" is on request.

7 Valve Actuator

Type	Lever	Gear	Electric Actuator	Pneumatic Actuator	Bare Stem
Symbol	None	G	E	P	B

8 Special Code

Description	Extend Stem	Locking Device	NACE MR-01-75	SHELL Standard
Symbol	ES	LD	NC	SH