

TOP ENTRY FULL PORT BALL VALVES

DESIGN FEATURES

- Top Entry, Floating Ball
- Body-cover Bolted Joint Not Affected by Pipe Stressed
- Blow-out Proof and Anti-static Stem
- Tight Shut-off and Long Cycle Life
- Permits In-line Access for Seat Replacement
- Welding into Line Possible Without Disassembly

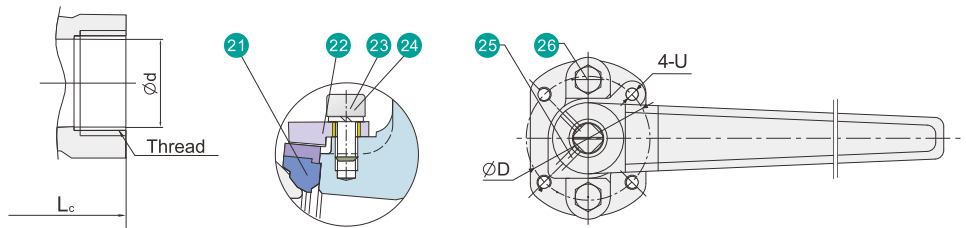


SERIES KV - T41 KV - T21

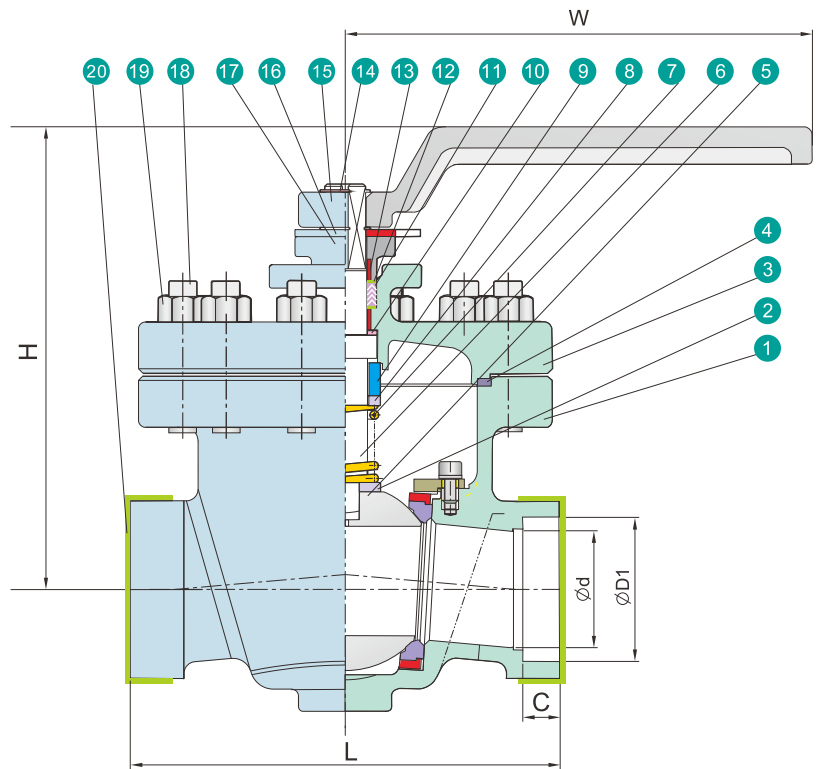


APPLICABLE STANDARDS:

- Design : ASME B16.34
- Wall Thickness : ASME B16.34
- Socket Welded End : ASME B16.11
- Pipe Thread : ASME B1.20.1
- Inspection & Testing : API 598
- KV-T03: Threaded, Class 600
- KV-T23: Socket Welded, Class 600



NO.	PART NAME	MATERIALS		
1	Body	CF8M	CF8	WCB
2	Handle Gland	316		304
3	Cap	CF8M	CF8	WCB
4	Body Gasket	PTFE / GRAPHITE		
5	Ball	316		304
6	Stem	316		SUS304/A182-F6a
7	Spring	316		304
8	Adjusting Gasket	316		304
9	Guiding Bushing	316		304
10	Thrust Washer	PTFE		
11	Stem Packing	PTFE / GRAPHITE		
12	Stem Gasket	316		304
13	Stem Bushing	RTFE		
14	Snap Ring	304		
15	Handle	QT400 - 18		
16	Stop-Lock-Plate	304		
17	Gland Packing	304		
18	Bolting	A2-70		8.8
19	Nut	A2-70		8
20	Protection Cover	PVC		
21	Ball Seat	TFM1600+316 Outer Ring		
22	Gland	316		304
23	Hex. Bolting	A4-70		A2-70
24	Spring Washer	316		304
25	Screw	A2-70		
26	Bolt	A2-70		8.8

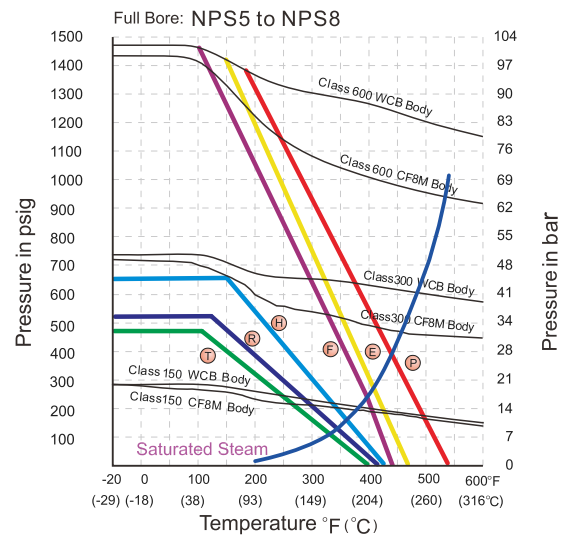
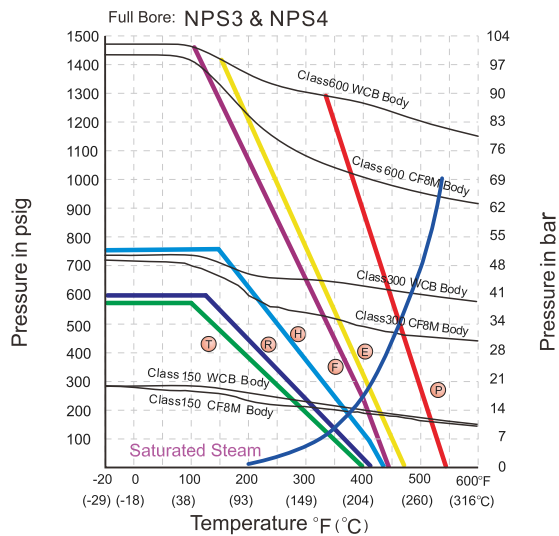
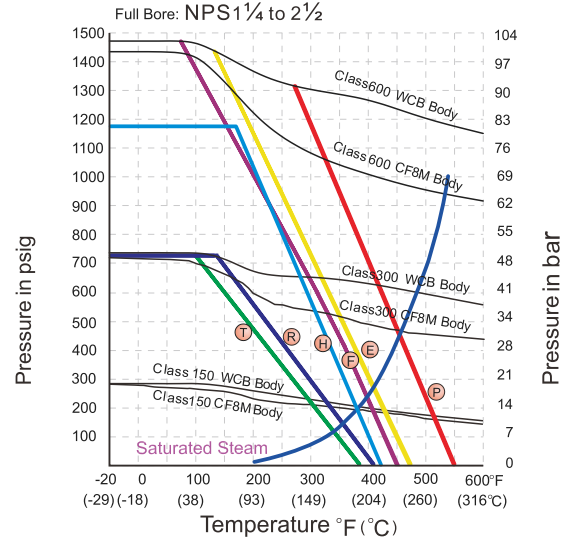
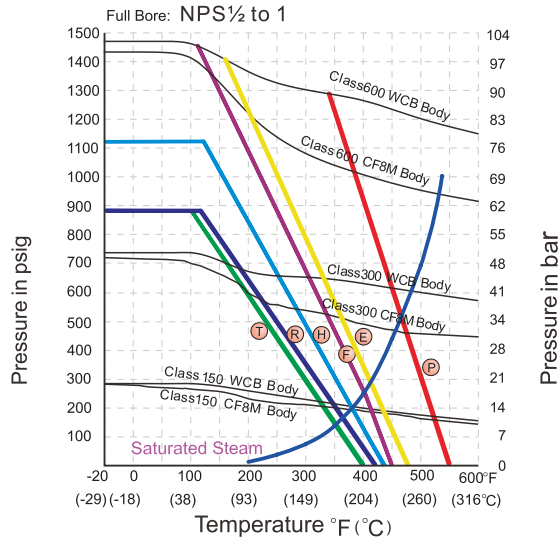


Unit: mm

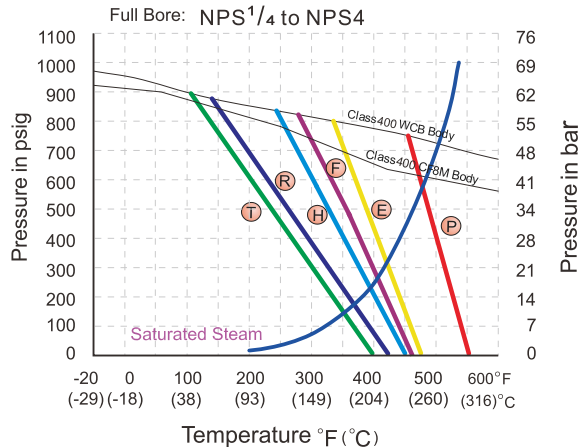
DN	NPS	d	W	L	Lc	H	D	U	D1	C	ØDN
15	1/2	15	130	85	97	120	Ø42	M5	21.8	10	NPT
20	3/4	20	130	95	105	120	Ø42	M5	27.3	13	BSP
25	1	25	160	124	146	130	Ø50	M6	34.5	13	PT
40	1 1/2	38	200	152	172	175	Ø70	M8	49.2	14	DIN
50	2	50	200	184	196	200	Ø70	M8	61.6	16	ETC
80	3	76	265	205	205	214	Ø102	M10	90.0	16	
100	4	100	325	240	240	250	Ø102	M10	115.5	19	

The pressure-temperature data of ball valves is determined not only by valve shell materials but also by sealing materials used for ball seats, gland packings and flange gaskets.

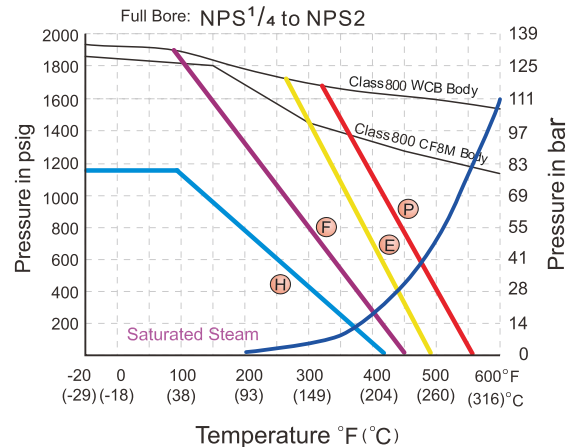
Floating Ball Valves, Class 150 / 300 / 600



Floating Ball Valves, 1000 PSI



Floating Ball Valves, 2000 PSI



Seat Materials: T=PTFE R=RTFE H=TFM1600 E=EK+PTFE P=PEEK F=TFM4215

“H” is the standard seat material for KI ball valves, except KV-010, 020 & 030 series.

The seat material of these types is PTFE.

Body Ratings: Shown above are for ASTM A351 Gr.CF8M and A216 Gr.WCB

For ratings of other valve shell materials, please refer to the last edition of ASME B16.34.