

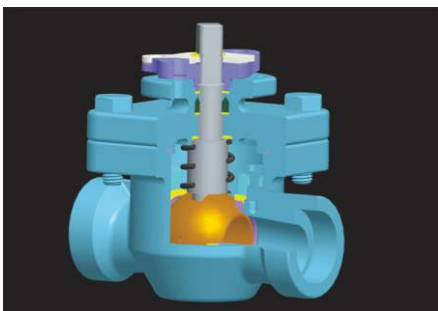
# TOP ENTRY FULL PORT BALL VALVES

## 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

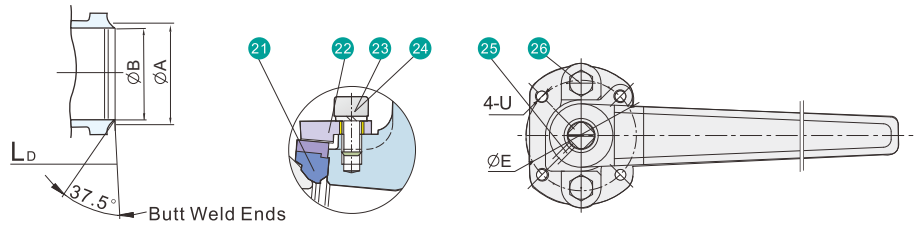


SERIES KV - T41 KV - T21

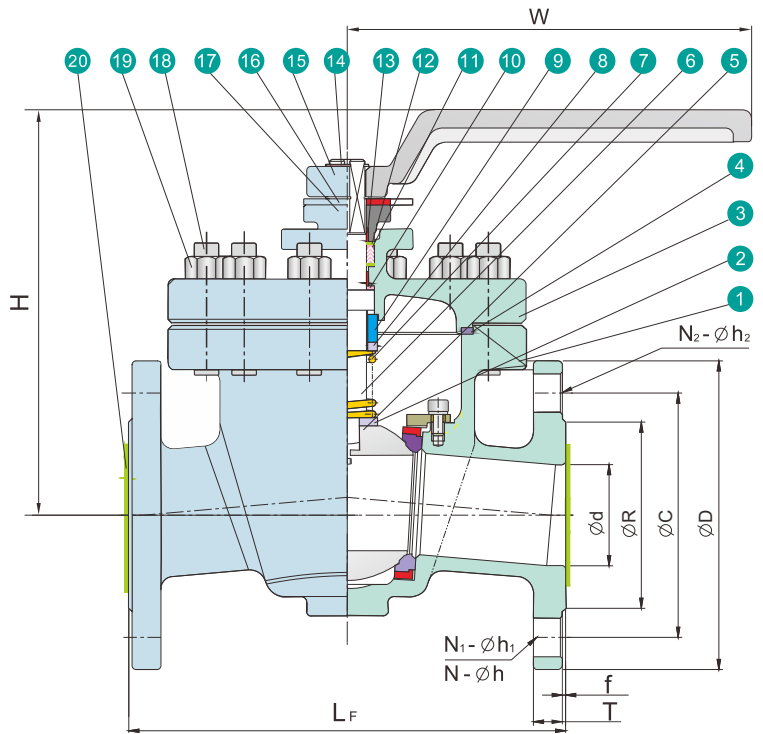


**APPLICABLE STANDARDS:**

- Design : ASME B16.34
- Wall Thickness : ASME B16.34
- Flanged Ends : ASME B16.5
- Extended Butt Weld : ASME B16.25
- Inspection & Testing : API 598, API 6D
- KV-T41, KV-T42: Flanged, Class 150/300
- KV-T11, KV-T12: Butt Welded, Class 150/300



NO.	PART NAME	MATERIALS		
1	Body	CF8M	CF8	WCB
2	Handle Gland	316	304	
3	Cap	CF8M	CF8	WCB
4	Body Gasket	PTFE / GRAFOIL*		
5	Ball	CF8M	CF8	
6	Stem	316	304/A182-F6a	
7	Spring	316	304	
8	Adjusting Gasket	316	304	
9	Guiding Bushing	316	304	
10	Thrust Washer	PTFE		
11	Stem Packing	PTFE / GRAFOIL*		
12	Stem Gasket	316	304	
13	Stem Bushing	PTFE		
14	Snap Ring	304		
15	Handle	WCB		
16	Stop-Lock-Plate	304		
17	Gland Packing	304		
18	Bolting	A193-B8	A193-B7	
19	Nut	A194-8	A194-2H	
20	Protection Cover	PVC		
21	Ball Seat	TFM1600+316 Outer Ring		
22	Gland	316	304	
23	Hex. Bolting	A193 - B8M	A193 - B8	
24	Spring Washer	316	304	
25	Screw	A193 - B8		
26	Bolt	A193-B8	A193-B7	



\*Materials for FIRE-SAFE Models

**ASME CLASS 150**

**KV-T41, KV-T11**

Unit: mm

SIZE	W	L <sub>F</sub>	L <sub>b</sub>	d	R	D	C	f	T	H	N <sub>1</sub>	h <sub>1</sub>	N <sub>2</sub>	h <sub>2</sub>	E	U	B	A
DN15	1/2"	130	108	140	15	35.0	90	60.3	2	8	120	4	16.0	—	42	M5	—	—
DN20	3/4"	130	117	152	20	43.0	100	69.9	2	8.9	120	4	16.0	—	42	M5	—	—
DN25	1"	160	127	165	25	51.0	110	79.4	2	9.6	130	2	16.0	2	1/2-13UNC	50	M6	—
DN32	1-1/4"	160	140	178	32	63.5	115	88.9	2	11.2	134	2	16.0	2	1/2-13UNC	50	M6	—
DN40	1-1/2"	200	190	190	38	73.2	130	98.4	2	12.7	175	4	16.0	—	70	M8	—	—
DN50	2"	200	216	216	50	92.0	150	120.7	2	14.3	200	4	19.0	—	70	M8	—	—
DN80	3"	265	282	356	76	127.0	190	152.4	2	17.5	214	4	19.0	—	102	M10	78	88.9
DN100	4"	325	432	432	100	157.2	230	190.5	2	22.3	250	8	19.0	—	102	M10	102	114.3
DN150	6"	800	457	457	150	216.0	280	241.3	2	23.9	350	8	22.3	—	125	M12	154	168.3

**ASME CLASS 300**

**KV-T42, KV-T12**

Unit: mm

SIZE	W	L <sub>F</sub>	L <sub>b</sub>	d	R	D	C	f	T	H	N	h	E	U	B	A
DN15	1/2"	130	140	140	15	35.0	95	66.7	2	12.7	120	4	16.0	42	M5	—
DN20	3/4"	130	152	152	20	43.0	115	82.6	2	14.3	120	4	19.0	42	M5	—
DN25	1"	160	165	165	25	51.0	125	88.9	2	15.9	130	4	19.0	50	M6	—
DN32	1-1/4"	160	178	178	32	63.5	135	98.4	2	17.5	137	4	19.0	50	M6	—
DN40	1-1/2"	200	190	190	38	73.2	155	114.3	2	19.1	175	4	22.3	70	M8	—
DN50	2"	200	216	216	50	92.0	165	127.0	2	20.7	200	8	19.0	70	M8	—
DN80	3"	265	282	356	76	127.0	210	168.3	2	27.0	214	8	22.3	102	M10	78
DN100	4"	325	432	432	100	157.2	225	200.0	2	30.2	250	8	22.3	102	M10	102
DN150	6"	800	457	457	150	216.0	320	269.9	2	35.0	350	12	22.3	125	M12	154