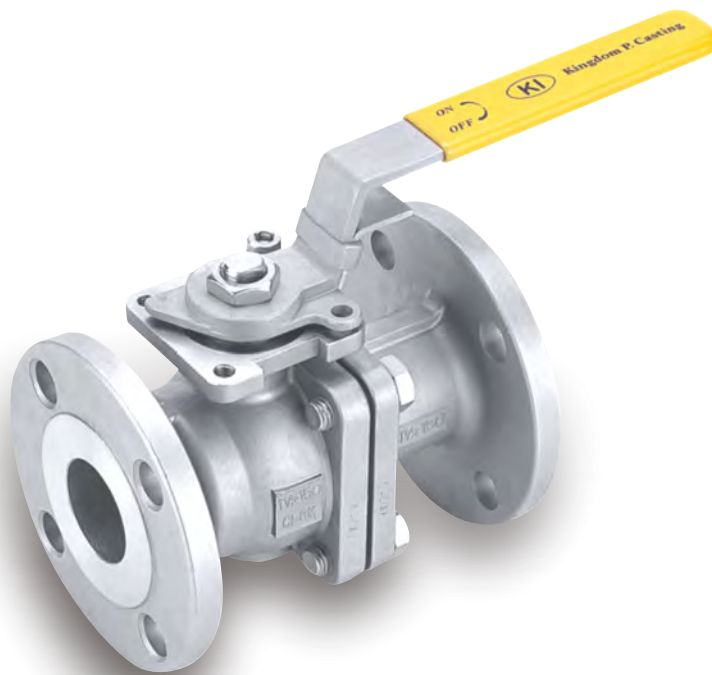


DESIGN FEATURES

- Built-in ISO 5211 Mounting Pad Easy Automation
- **Fire Safe** Design Approved
- Ex Anti-static Devices for Ball-Stem-Body
- Blow-out Proof Stem
- Pressure Balance Hole in Ball Slot
- **TA-LUFT** **ISO15848-1** Design Approved
- NACE standard MR0175 & MR0103 (Optional)
- Casting Approved by TÜV AD 2000-Merkblatt W0

APPLICABLE STANDARDS

- Design Standard : EN 12516-1
- Fire Safe : API 607 5th 2005, ISO10497
- Face To Face :
*L - EN 558 Series1(DIN 3202 F1)
L - EN 558 Series27(DIN 3202 F4)
- Wall Thickness :ASME B16.34, EN 12516-1
- Flanged End : EN1092-1 PN10-PN40
- Inspection & Testing : DIN 3230/3, EN 12266-1



CV VALUE / WEIGHT

DN	CV	Weight (kg)							
		F4 / F5				F1 / F7			
		PN10	PN16	PN25	PN40	PN10	PN16	PN25	PN40
15	30	2.3				2.4			
20	55	3.2				3.2			
25	96	4.2				4.4			
32	170	5.5				5.9			
40	270	7.1				7.6			
50	470	9.8				10.4			
65	690	13.9		14.6		15.5		16.8	
80	1150	18.1		20.4		20.1		23.7	
100	2100	25.3		29.5		27.9		35.1	

TORQUE VALUES

Close to Open Torque at Various Differential Pressure (ΔP), Standard Seats (TFM1600&PTFE)

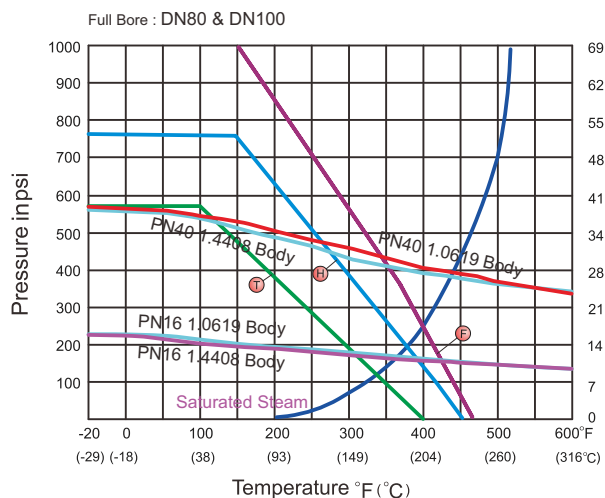
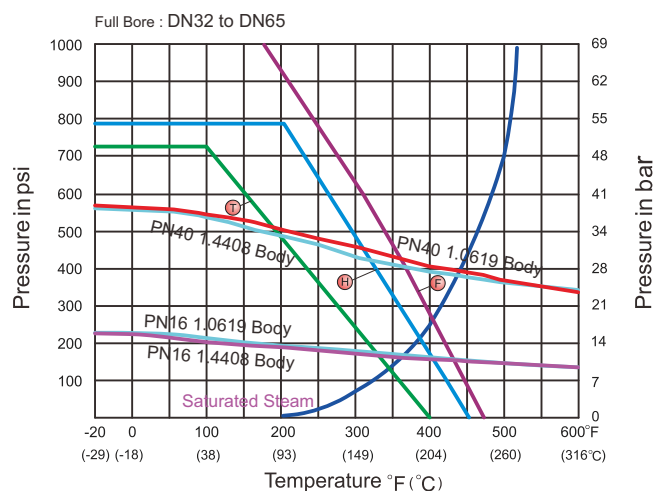
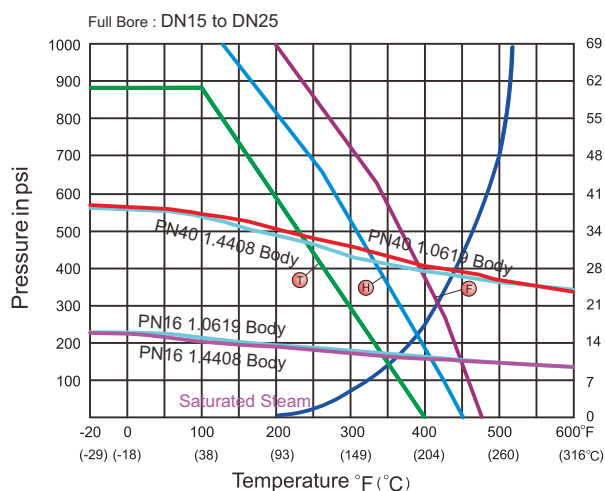
unit : in-lb / N·m

Size/ ΔP	75 psig		150 psig		240 psig / 300 psig		600 psig	
	5 bar		10 bar		16 bar/20 bar		40bar	
DN	N·m	In·lb	N·m	In·lb	N·m	In·lb	N·m	In·lb
15	5	44	5	44	5	44	5	44
20	6	53	6	53	6	53	6	53
25	10	88	10	88	11	97	11	97
32	13	115	13	115	15	133	17	150
40	19	168	19	168	22	195	24	212
50	25	221	29	257	32	283	34	301
65	40	354	45	398	49	434	52	460
80	65	575	72	637	81	717	88	779
100	100	885	110	973	122	1080	132	1168

Remark : 1.Torques will increase about 30% if seat materials are Reinforced Fiber-Glass PTFE, Carbon-filled. PTFE or EK+PTFE or TFM4215.
2.The torque figures at 5 bar pressure are maximum values to be tested after the valves are placed for 24 hours.
3.For actuator sizing, a safety factor of minimum 30% is recommended.

TECHNICAL INFORMATION

PRESSURE - TEMPERATURE DATA

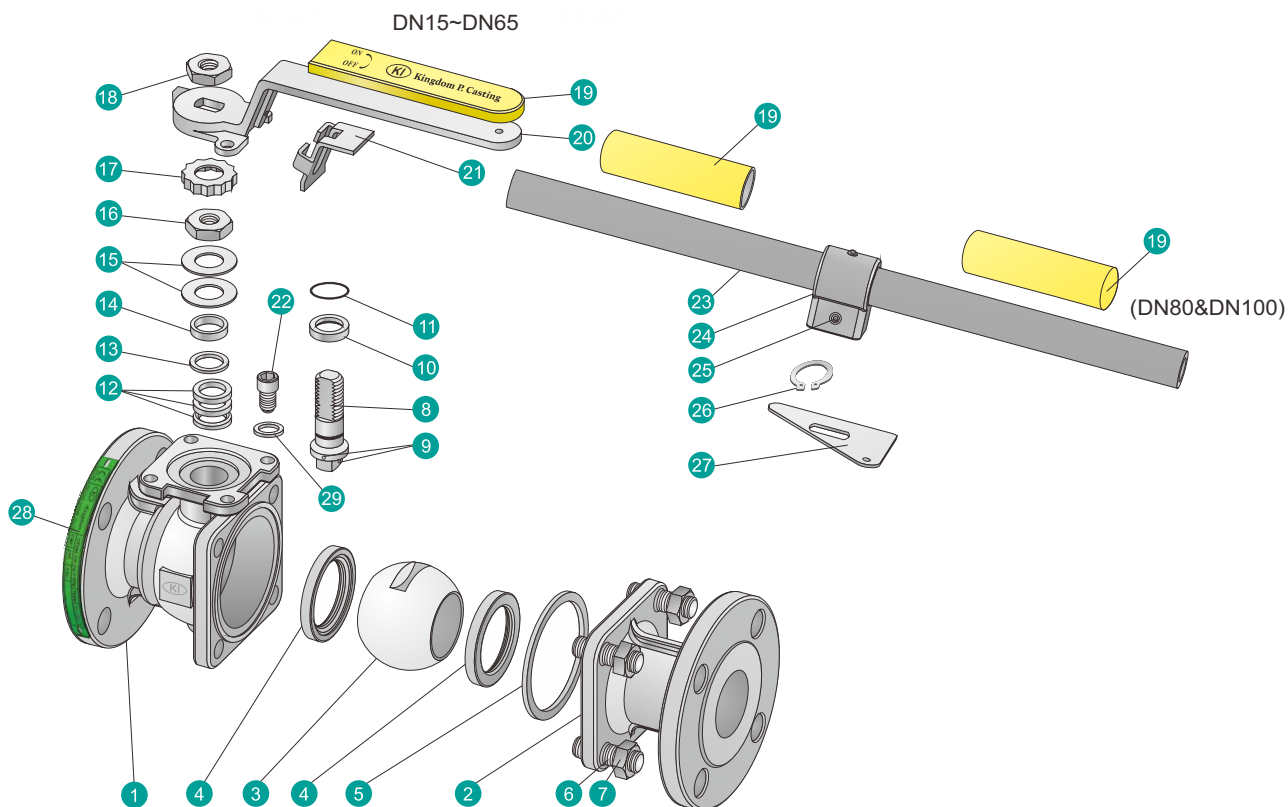


Seat Materials : T PTFE H TFM1600 E TFM4215

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

Seat Materials : T PTFE H TFM1600 E TFM4215

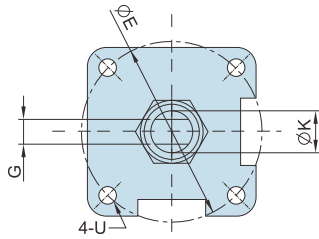
Body Ratings: Shown above are for EN10213 Nr. 1.4408 and EN 10213 Nr. 1.0619
For ratings of other valve shell materials, please refer to the last edition of EN12516-1.



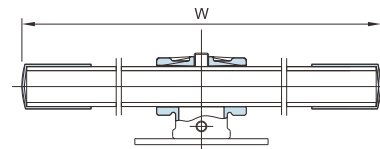
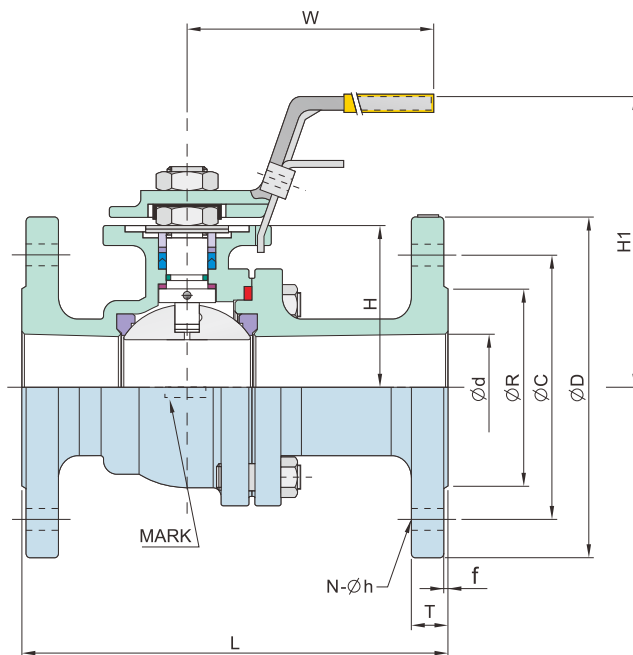
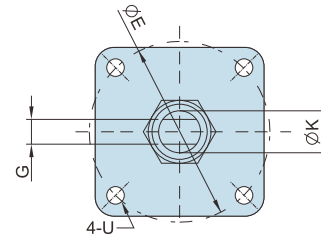
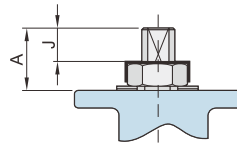
MATERIAL OF CONSTRUCTION

NO.	PART NAME	MATERIALS		
		ANSI	ANSI	ANSI
1	Body	1.4408	1.4308	1.0619
2	End Cap	1.4408	1.4308	1.0619
3	Ball	1.4408	1.4308	1.4308
4	Ball Seat	TFM1600 / PTFE /TFM4215		
5	Body Gasket	PTFE / 316 Spiral Wound+GRAPHITE*		
6	Bolting	A2-70		8.8
7	Bolt Nut	A2-70		8
8	Stem	316	304	
9	Anti-Static	316	304	
10	Thrust Washer	PTFE/TFM1600		
11	O-Ring	FKM		
12	Packing	PTFE / GRAPHITE*		
13	Bushing	50%SS+50%PTFE / 304*		
14	Gland	316		
15	Belleville Washer	301		
16	Stem Nut	A194-8		
17	Stop-lock-Cap	304		
18	Handle Nut (DN15 ~ DN65)	A194-8		
19	Handle Sleeve	304		
20	Handle (DN15 ~ DN65)	304		
21	Lock Device (DN15 ~ DN65)	304		
22	Stop Bolt	A2-70		
23	Pipe Handle (DN80 ~ DN100)	A53+PLATED Zn		
24	Handle Adapter (DN80 ~ DN100)	A351-CF8		
25	Set Screw (DN80 ~ DN100)	A2-70		
26	Snap Screw (DN80 ~ DN100)	304		
27	Triangle Stopper (DN80 ~ DN100)	304		
28	Nameplate	304		
29	Stop Washer	304		

*Materials for KV-06J, KV-06K, KV-06M, KV-06N Series (Fire Safe Models)



DN 15 ~ DN 65



DN 80 ~ DN 100

DIMENSION TABLE

■ EN PN 10/16/25/40 (F1, F4)

Unit: mm

DN	PN	d	L	*L	R	D	C	f	T	H	H1	N	h	W	G	A	U	E	ISO 5211
15	10	15.0	115	130	45	95	65	2	16	36.0	87	4	14	137	6.3	20	M5	42	F04
20	10	20.0	120	150	58	105	75	2	18	40.0	90	4	14	137	6.3	20	M5	42	F04
25	16	25.0	125	160	68	115	85	2	18	46.0	98	4	14	172	9.0	24	M6	50	F05
32	25	32.0	130	180	78	140	100	2	18	50.0	102	4	18	172	9.0	24	M6	50	F05
40	40	38.0	140	200	88	150	110	3	18	61.0	114	4	18	202	9.6	27	M8	70	F07
50	40	50.0	150	230	102	165	125	3	20	71.0	127	4	18	202	9.6	27	M8	70	F07
65	10/16	63.5	170	290	122	185	145	3	18	89.0	163	4/8 ^(a)	18	252	16.0	43	M10	102	F10
	25/40		170	290					22	107.0	179	8							
80	10/16	76.0	180	310	138	200	160	3	20	117.0	189	8	18	300	16.0	43	M10	102	F10
	25/40		180	310					24	99.0	189								
100	10/16	100.0	190	350	162	235	190	3	20	121.0	207	8	18	404	18.0	50	M10	102	F10
	25/40		190	350					24	134.0	222								

KV-04J, KV-06J — **PN10**

KV-04M, KV-06M — **PN25**

KV-04K, KV-06K — **PN16**

KV-04N, KV-06N — **PN40**

(a): 4 is factory standard for DN65 PN16 valve and 8 is optional.

L : for Series F4 *L : for Series F1