



3 Piece Stainless Steel Heavy Duty Ball Valve

- Full Bore
- Encapsulated Body
- Easy to Actuate
- ATEX Approved
- Choice of End Connections

Description

A fully maintainable, 3 piece, full bore, heavy duty stainless steel ball valve. Constructed from CF8M 316 stainless steel and 316 Trim. The seats are TFM 4215® (25% carbon filled TFM) Ball Seats, Grafoil body seals and stem packing. Ta-Luft self adjusting stem sealing. Nace MR-0175 compliant, ISO 15848 Certified. EN14432 Certified. DNV & Lloyds approved. Fire safe design and construction, certified to API 607 5th Edition 2005, ISO 10497, ASTM A35. ISO 5211 Direct Mounting Pad and Square stem for Automation. Anti-static devices for Ball-Stem-Body. ATEX Approved. BSP, NPT, Socket Weld and Butt Weld Ends available.

Class 800 (2000 psi) pressure rated 1/2" - 1"
Class 600 (1500 psi) 1 1/4" - 2"

Options available

50% S/S Filled PTFE Ball Seats
30,60 and 90 Deg V-Ball for modulation duties
100mm high Spindle Extension for Insulation & Steam Actuation Applications
Direct Mount Spring Handle/Lever
Fabricated Heating Jacket
Upstream Ball and Cavity Relief hole drilled into ball.



Description

A fully maintainable, full bore ball valve in stainless steel, having carbon filled reinforced TFM seats and Grafoil seals. The valve has a unique encapsulated body bolt design and offers a raised ISO mounting pad for direct actuation. A Lockable lever is supplied as standard for manual operation. This valve is fully maintainable. End connection options are, BSP, NPT, Socket and Butt Weld.



Beschreibung

Ein vollständig wartbarer Kugelhahn mit vollem Durchgang aus Edelstahl mit kohlenstoffgefüllten, verstärkten TFM-Sitzen und Grafoil-Dichtungen. Das Ventil hat ein einzigartiges gekapseltes Gehäuseerschraubendesign und bietet eine erhöhte ISO-Befestigungsplatte für die direkte Betätigung. Für die manuelle Bedienung wird standardmäßig ein abschließbarer Hebel mitgeliefert. Dieses Ventil ist vollständig wartbar. Endverbindungsoptionen sind BSP, NPT, Socket und Butt Weld.



Descripción

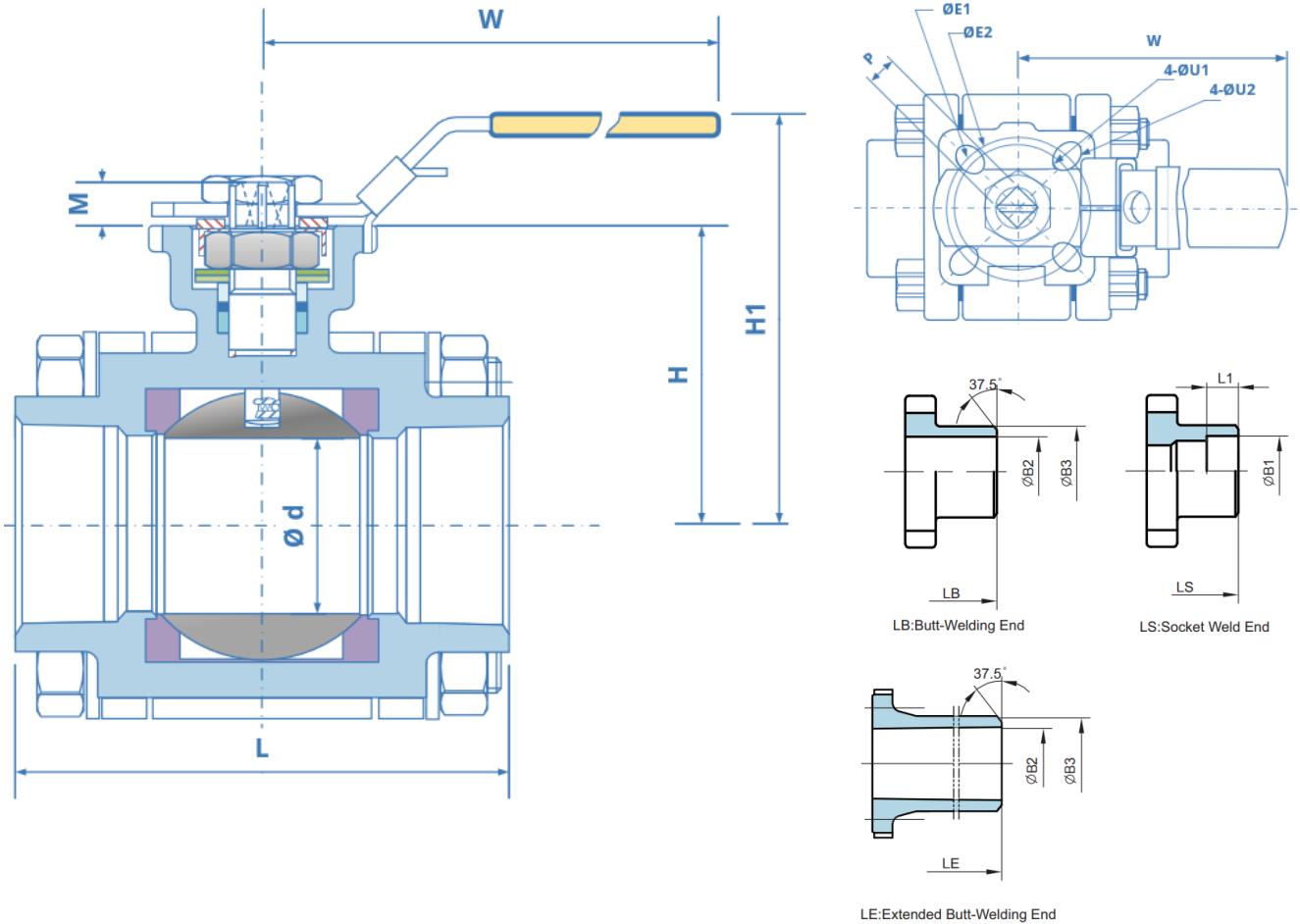
Una válvula de bola de paso total de mantenimiento completo en acero inoxidable, con asientos TFM reforzados con relleno de carbono y sellos Grafoil. La válvula tiene un diseño único de perno de cuerpo encapsulado y ofrece una plataforma de montaje ISO elevada para accionamiento directo. Se suministra una palanca bloqueable como estándar para operación manual. Esta válvula se puede mantener completamente. Las opciones de conexión final son, BSP, NPT, Socket y Butt Weld.



Description

Un robinet à tournant sphérique à passage intégral entièrement maintenable en acier inoxydable, doté de sièges TFM renforcés remplis de carbone et de joints Grafoil. La vanne a une conception unique de boulon de corps encapsulé et offre un patin de montage ISO surélevé pour un actionnement direct. Un levier verrouillable est fourni en standard pour le fonctionnement manuel. Cette vanne est entièrement maintenable. Les options de connexion d'extrémité sont BSP, NPT, Socket et Butt Weld.

BV5087



Dimensions

Size	Ød	L	LS	LB	LE	H	H1	W	ØE1	ØE2	ØB1	ØB2	ØB3	P	M	U2	U2	A	L1	ISO5211	Pressure	Torque*
1/4"	10.6	75	70	70	165	43	73	147	36	42	14	7.6	18	9	6	6	6	7	10	F03-F04	2000WOG	6nm
3/8"	12.7	75	70	70	165	43	73	147	36	42	7.8	10.7	18	9	6	6	6	7	10	F03-F04	2000WOG	6nm
1/2"	15	75	75	75	165	43	3	147	36	42	22	13.9	22	9	6	6	6	7	10	F03-F04	2000WOG	6nm
3/4"	20	80	80	90	190	51	81	147	36	50	27	18.8	28	9	6	6	7	9	13	F03-F05	2000WOG	7nm
1"	25	90	90	100	216	58	88	177	42	50	34	24.3	34	11	11	6	7	11	13	F04-F05	2000WOG	12nm
1 1/4"	32	110	110	110	229	63	93	177	42	70	43	32.5	43	11	11	6	9	11	16	F04-F07	1500WOG	15nm
1 1/2"	38	120	120	125	241	75	107	197	50	70	49	38.1	50	14	14	7	9	14	16	F05-F07	1500WOG	22nm
2"	50	140	140	150	292	86	118	197	50	70	61	49.2	61	14	14	7	9	14	17	F05-F07	1500WOG	33nm

CV Values and Weight

DN	NPS	Weight						CV
		KV-L80		KV-L81		KV-L82		
		(kg)	(lb)	(kg)	(lb)	(kg)	(lb)	
8	1/4	1.10	2.43	1.04	2.29	1.07	2.36	10
10	3/8	1.06	2.34	1.02	2.25	1.04	2.29	13
15	1/2	1.04	2.29	1.00	2.20	1.01	2.23	18
20	3/4	1.50	3.31	1.54	3.40	1.52	3.35	36
25	1	2.10	4.63	2.04	4.50	2.07	4.56	48
32	1 1/4	3.04	6.70	2.94	6.48	3.01	6.64	93
40	1 1/2	4.48	9.88	4.50	9.90	4.49	9.90	165
50	2	7.14	15.74	6.95	15.32	7.06	15.56	207

All information is sourced from our manufacturer's data and is intended for guidance only - Valves Online can accept no liability for changes, omissions or errors.

Torque Values

Close to Open Torque at Various Differential Pressure (P), Standard Seats (TFM4215)

unit : in-lb / N-m

Size/ Δ P		75 psig		150 psig		300 psig		700 psig		1000 psig		1500 psig		2000 psig	
		5 bar		10 bar		20 bar		50bar		63bar		100bar		140bar	
DN	NPS	N-m	In-lb	N-m	In-lb	N-m	In-lb	N-m	In-lb	N-m	In-lb	N-m	In-lb	N-m	In-lb
8	1/4	7	62	7	62	7	62	7	62	7	62	7	62	7	62
10	3/8	7	62	7	62	7	62	7	62	7	62	7	62	8	71
15	1/2	7	62	7	62	7	62	7	62	7	62	7	62	8	71
20	3/4	8	71	8	71	8	71	8	71	8	71	8	71	9	80
25	1	13	115	13	115	15	133	15	133	15	133	15	133	16	142
32	1 1/4	17	150	17	150	20	177	22	195	25	221	26	230	—	—
40	1 1/2	25	221	25	221	29	257	31	274	34	301	37	328	—	—
50	2	33	292	33	292	42	372	46	407	49	434	55	487	—	—

- 1.The torque figures at 5 bar pressure are maximum values to be tested after the valves are placed for 24 hours.
- 2.For actuator sizing, a safety factor of minimum 30% is recommended.
- 3.If the working temperature is larger than 180°C(356°F), additional safety factor of minimum 20% is recommended.

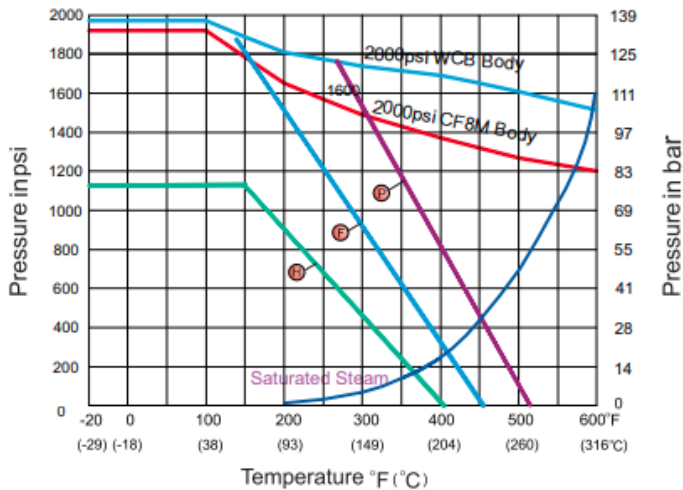
TECHNICAL INFORMATION

PRESSURE - TEMPERATURE DATA

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.

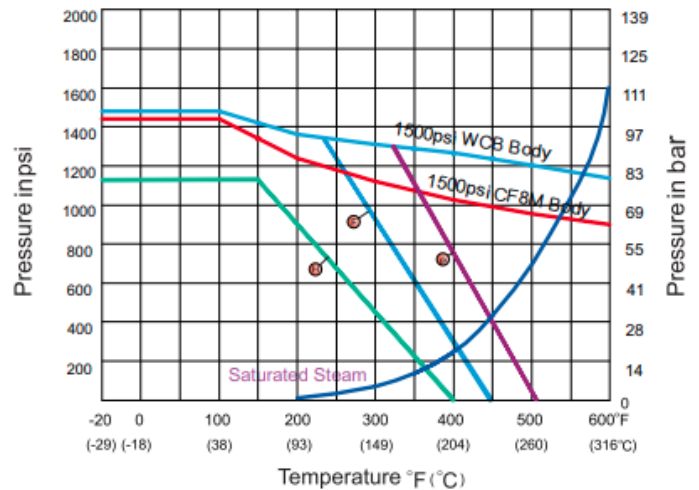
Floating Ball valves ,2000psi

Full Bore : NPS 1/4 ~ NPS 1



Floating Ball valves ,1500psi

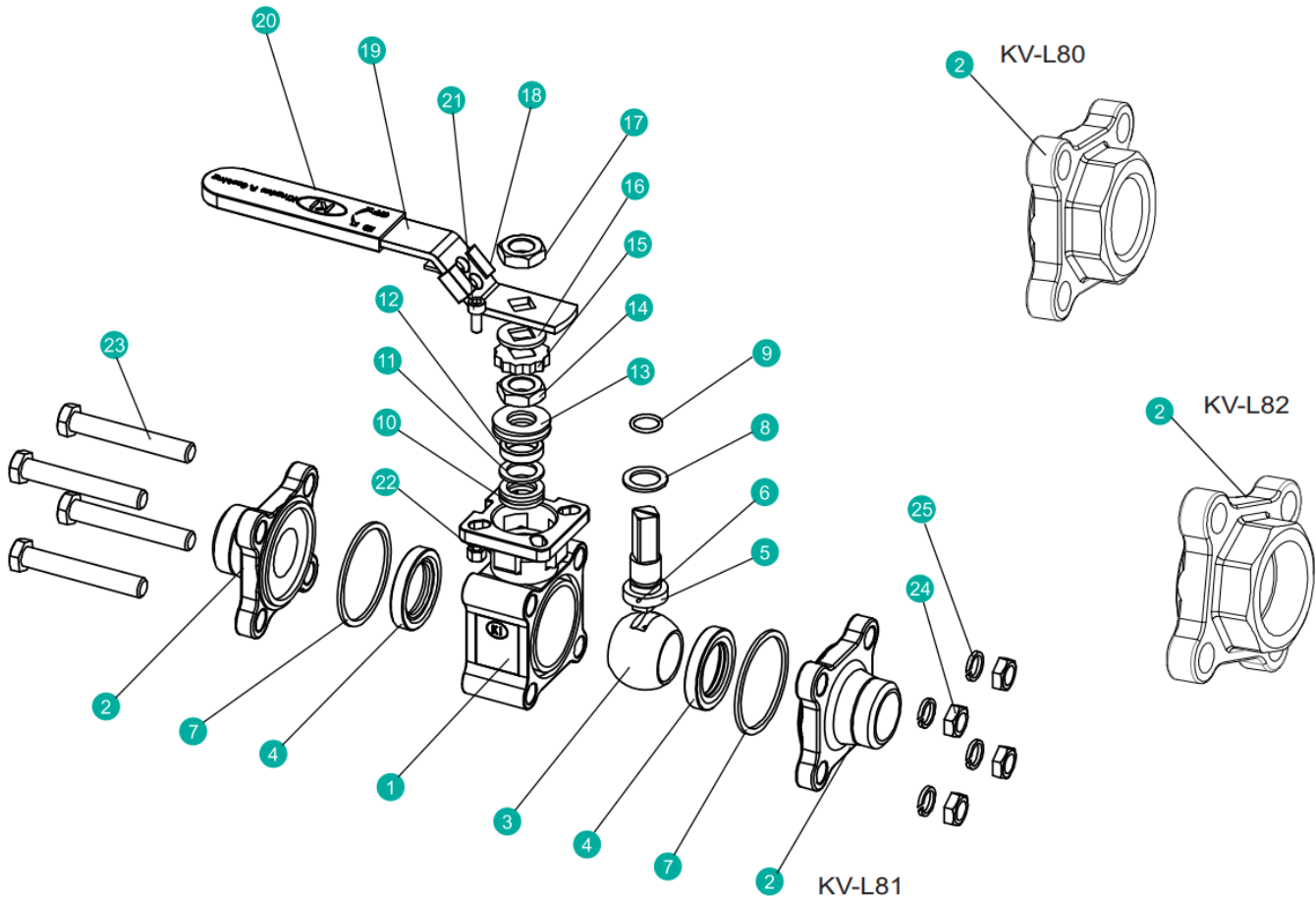
Full Bore : NPS 1 1/4 ~ NPS 2



Seat Materials : ● TFM1600 ● TFM4215 ● PEEK

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.

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MATERIAL OF CONSTRUCTION

NO.	PART NAME	MATERIALS		
1	Body	CF8M(1.4408)	CF8(1.4308)	WCB(1.0619)
2	End Cap(Thread)	CF8M(1.4408)	CF8(1.4308)	WCB(1.0619)
	End Cap(BW/SW)	CF3M(1.4409)	CF8(1.4308)	WCB(1.0619)
3	Ball	CF8M	CF8	
4	Ball Seat		TFM1600 /TFM4215	
5	Stem	316	304	
6	Anti-Static	316	304	
7	Body Gasket	PTFE/TFM1600/ GRAPHITE*		
8	Thrust washer	PTFE/TFM1600/ RTFE		
9	O-Ring	FKM		
10	Packing	PTFE/ GRAPHITE*		
11	Bushing	50%SS+50%PTFE / 304*		
12	Gland	316		
13	Belleville Washer	301		
14	Stem Nut	A194-8		
15	Stop-lock-Cap	304		
16	Handle Gland	304		
17	Handle Nut	A194-8		
18	Lock Device	304		
19	Handle	304		
20	Handle Sleeve	VINYL PLASTIC		
21	Stop Bolt	A2-70		
22	Stop Nut	A2-70		
23	Bolting	A193-B8/A2-70		
24	Bolt Nut	A193-8/A2-70		
25	Bolt Washer	304		

*Materials for KV-L80F/L81F/L82F/L8FF/L81F-L Series (Fire Safe Models)

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