



Pneumatic Actuated Sanitary Cavity Filled Direct Mount Ball Valve – OD End – BS4825

- No Dead Space in Through Path
- Encapsulated Seats
- Seats and Seals Comply with FDA, 3A and WRAS Requirements
- Good for use with CIP
- Sizes ½" - 4"
- Fully Maintainable
- Actuation in Spring and Double Acting Versions

DESCRIPTION

Valve

A 3-piece sanitary ball valve with ISO 5211 mounting platform for automatic operation. Offered with TFM 1600 (FDA approved) Cavity filled ball seats and seals. ASTM A351 CF8M 316 Stainless steel construction, 316 trim. Ta-Luft self adjusting stem sealing. Chemically polished external surface, mechanical polish 0.8um internal. Valve holds ATEX, PED, CE and many more approvals.

Actuator

The valve is fitted to a powerful pneumatic, rack and pinion actuator in either single or double acting versions. 30% safety factor is included for repeatability and reliability. In addition the actuator can accommodate pilot solenoid valves, switchbox position indicators and inductive sensors, onto its Namur Interface pads. Actuator holds ATEX, PED, CE and SIL2.

Easy to Order

Using our unique selector tool you can build your perfect valve, actuator and accessory combination with ease.

Valve Certification



Description

A true full bore ball valve, suitable for sanitary applications, having polished body, TFM 1600 cavity filled seats and seals. Fully maintainable and suitable for CIP. Direct mount ISO 5211 mounting platform enabling either a Spring Closed/Open or Double Acting Pneumatic Actuator to be fitted.



Beschreibung

Ein echter Kugelhahn mit voller Bohrung, der für die Hygiene geeignet ist
Anwendungen mit poliertem Körper, hohlraumgefüllten TFM 1600-Sitzen und Dichtungen. Vollständig wartbar und für KVP geeignet. Direkt montierte Montageplattform ISO 5211, an der entweder ein federgeschlossener / offener oder ein doppelwirkender pneumatischer Antrieb montiert werden kann.



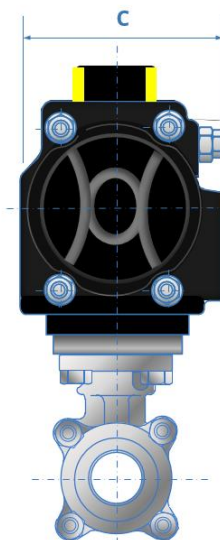
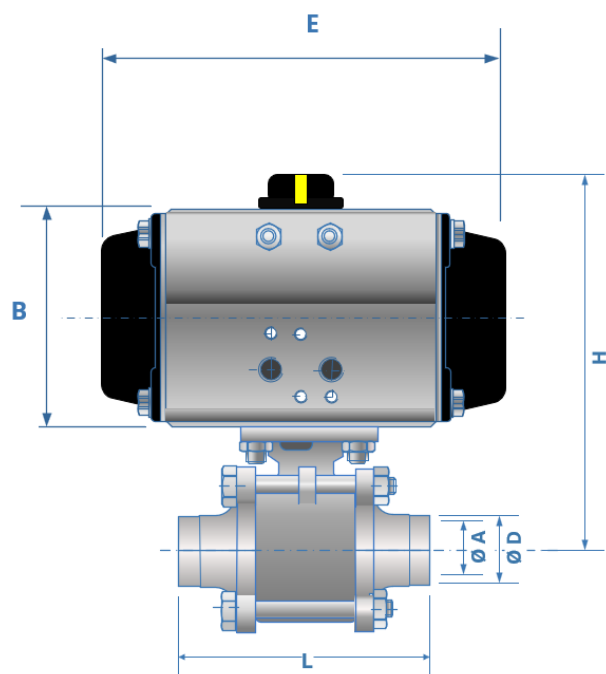
Descripción

Una verdadera válvula de bola de paso total, adecuada para aplicaciones sanitarias. aplicaciones, con cuerpo pulido, asientos y sellos llenos de cavidad TFM 1600. Totalmente mantenible y apto para CIP. Plataforma de montaje ISO 5211 de montaje directo que permite instalar un actuador neumático de resorte cerrado / abierto o de doble acción.



Description

Un vrai robinet à tournant sphérique à passage intégral, adapté aux sanitaires applications, ayant un corps poli, des sièges et des joints remplis de cavité TFM 1600. Entièrement maintenable et adapté au CIP. Plateforme de montage à montage direct ISO 5211 permettant de monter un actionneur pneumatique à ressort fermé / ouvert ou à double effet.

**Technical Information**

400 psi/g Pressure rated
ATEX approved with anti static
device for ball-stem-body.
Nace MR-0175 compliant
Inspection & Testing: API 598
End connections: BS 4825
Design Rating: ASME B16.34,
BS4825

Spring Return Dimensions and Weights

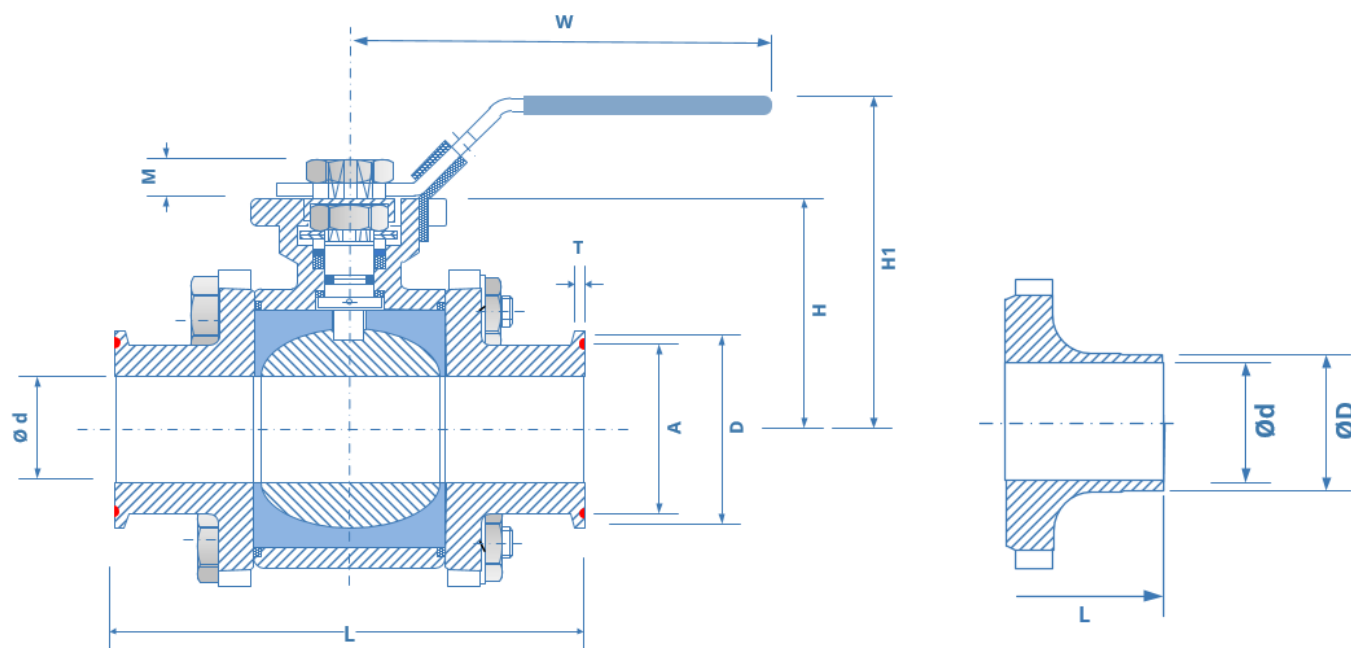
Size		SR Actuator	ØA	ØD	L	B	C	E	H	KG Clamp	KG OD Weld
1/2"	15	HP50S	9.5	12.7	90	93	72	144	135	1.85	1.81
3/4"	20	HP50S	15.9	19.1	90	93	72	144	142	2.11	2.06
1"	25	HP63S	22.2	25.4	100	107	85	163	165	3.14	2.99
1 1/2"	40	HP66S	34.9	38.1	125	107	85	202	178	5.29	5.24
2"	50	HP75S	47.6	50.8	150	124	96	210	202	7.35	7.25
2 1/2"	65	HP88S	60.3	63.5	190	136	108	247	236	12.5	12.2
3"	80	HP100S	73	76.2	220	148	123	268	257	17.6	17.35
4"	100	HP115S	97.6	102	270	166	141	316	306	31.6	31

Double Acting Dimensions and Weights

Size		DA Actuator	ØA	ØD	L	B	C	E	H	KG Clamp	KG OD Weld
1/2"	15	HP50D	9.5	12.7	90	93	72	144	135	1.85	1.81
3/4"	20	HP50D	15.9	19.1	90	93	72	144	142	2.11	2.06
1"	25	HP63D	22.2	25.4	100	107	85	163	165	3.14	2.99
1 1/2"	40	HP66D	34.9	38.1	125	107	85	202	178	5.29	5.24
2"	50	HP75D	47.6	50.8	150	124	96	210	202	7.35	7.25
2 1/2"	65	HP88D	60.3	63.5	190	136	108	247	236	12.5	12.2
3"	80	HP100D	73	76.2	220	148	123	268	257	17.6	17.35
4"	100	HP115D	97.6	102	270	166	141	316	306	31.6	31

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SERIES BV5518 Sanitary Ball Valve – OD Ends to BS4825



BV5519 End Cap BS 4825 (Weld Ends)

Dimensions and Weights

Size		d	ØA	ØD	D	T	L	H	H1	W	P	M	E1	E2	U1
1/2"	15	9.5	20.3	12.7	25.4	3.7	90	42	72	147	9	9	36	42	6
3/4"	20	15.9	20.3	19.1	25.4	3.7	90	49	79	147	9	9	36	50	6
1"	25	22.2	43.5	25.4	50.5	2.85	100	58	90	177	11	11	42	50	6
1 1/2"	40	34.9	43.5	38.1	50.5	2.85	125	71	103	197	14	14	50	70	7
2"	50	47.6	56.5	50.8	64	2.85	150	78	110	197	14	14	50	70	7
2 1/2"	65	60.3	70.5	63.5	77.5	2.85	190	100	150	267	17	17	70	102	9
3"	80	73	83.5	76.2	91	2.85	220	109	159	267	17	17	70	102	9
4"	100	97.6	110	102	119	2.85	270	140	212	400	22	22	–	102	–

CAVITY FILLED SEATS

Cavity filled seats are designed to eliminate the cavity around the ball, minimize trapped fluid in the valve body that can contaminate the process. Cavity Filled Seats offer excellent performance in control of food products, pharmaceuticals and high velocity applications. Maintenance seal kits are available on request.

Valve Details

Size		Flow CV	Torque Nm	Stem mm	ISO	KG (Approx.)	
						Clamp	OD Weld
1/2"	15	18	6	9	F03-F04	0.69	0.65
3/4"	20	36	8	9	F03-F05	0.95	0.92
1"	25	48	14	11	F04-F05	1.46	1.31
1 1/2"	40	165	22	14	F05-F07	2.89	2.84
2"	50	207	32	14	F05-F07	4.35	4.25
2 1/2"	65	450	50	17	F07-F10	8.2	7.9
3"	80	780	75	17	F07-F10	11.6	11.35
4"	100	1360	115	22	F10	22.6	22

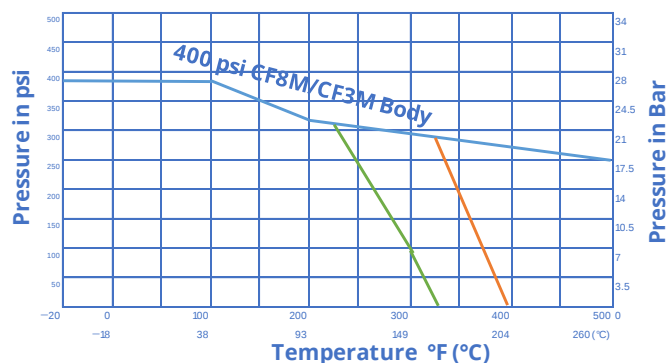
The torque figures do not include any safety factor and we recommend a minimum of 30% be added for actuation. Figures are based on 10 bar g clean water.

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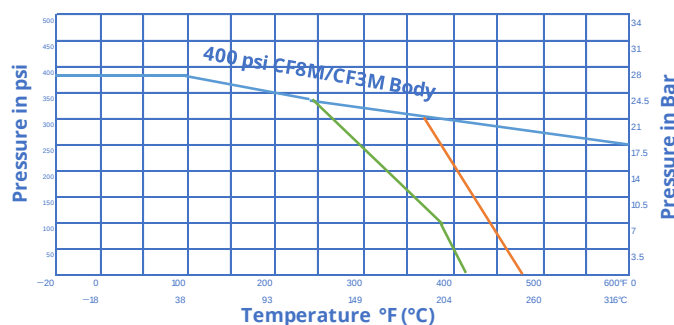
Technical Information

Pressure – Temperature Ratings

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



Floating Ball Valves, 400 psi
DN15 - DN32
Full bore ½"-1¼"



Floating Ball Valves, 400 psi
DN15 - DN32
Full bore 1½"- 4"

Torque Values

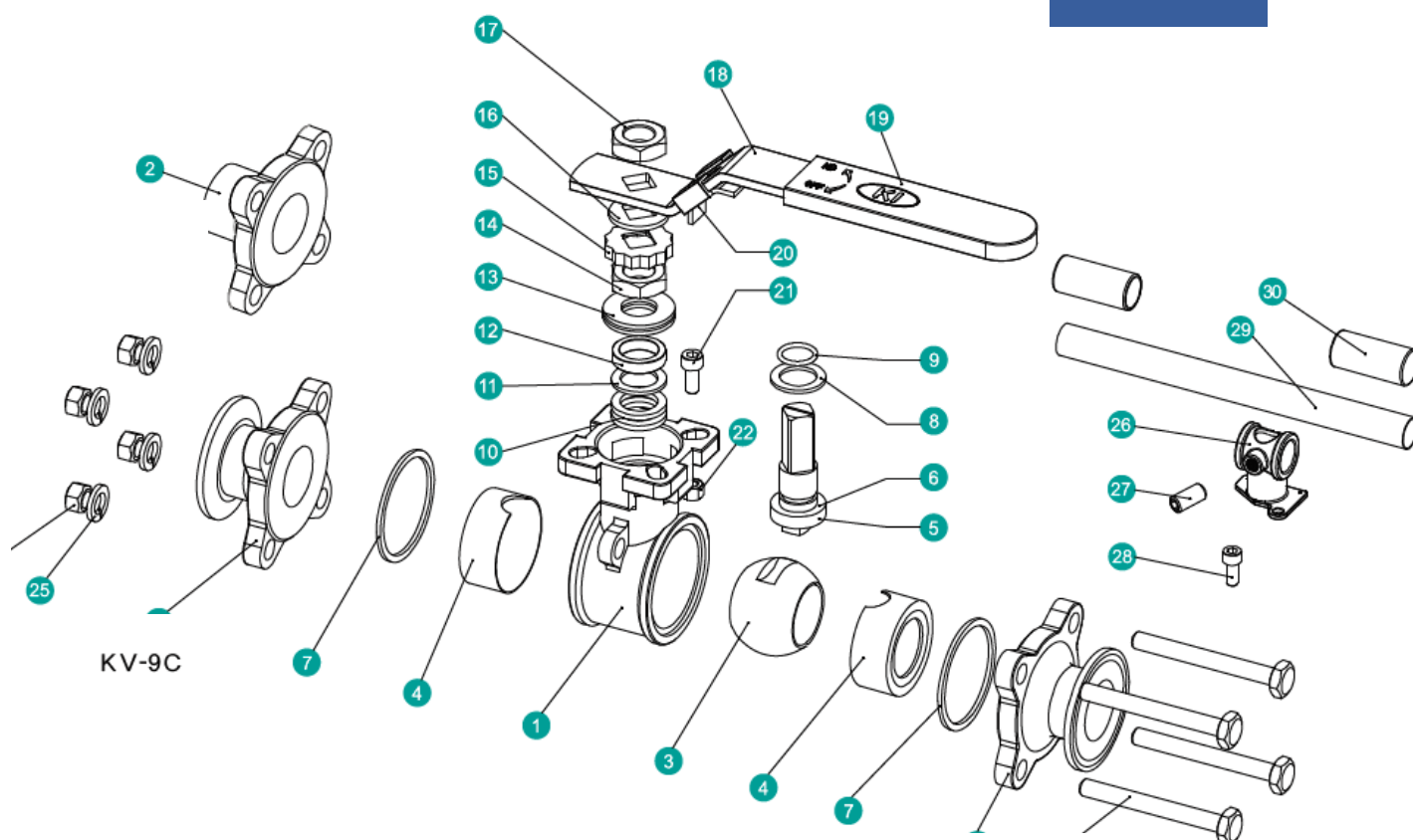
Close to Open torque at various differential pressure ΔP , standard seats TFM 1600

Size ΔP		75 psi		75 psi		75 psi		75 psi	
		5 Bar		5 Bar		5 Bar		5 Bar	
Inch	DN	N-m	in-lb	N-m	in-lb	N-m	in-lb	N-m	in-lb
1/2"	15	5	44	5	44	5	44	5	44
3/4"	20	6	53	6	53	6	53	6	53
1"	25	10	88	10	88	11	97	11	97
1 1/2"	40	19	168	19	168	22	195	24	212
2"	50	25	221	29	257	32	283	34	301
2 1/2"	65	40	354	45	398	49	434	52	460
3"	80	65	575	72	637	81	717	88	779
4"	100	100	885	110	973	122	1080	132	1168

Notes

Please include a minimum of 30% safety factor when sizing for actuators.

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MATERIAL OF CONSTRUCTION

NO.	PART NAME	MATERIALS		
1	Body	CF3M(1.4409)	CF8M(1.4408)	CF8(1.4308)
2	End Cap (Clamp)	CF3M(1.4409)	CF8M(1.4408)	CF8(1.4308)
	End Cap (BW)	CF3M(1.4409)	CF3M(1.4409)	CF8(1.4308)
3	Ball	CF3M	CF8M	CF8
4	Ball Seat	PTFE/TFM1600		
5	Stem	316L	316	304
6	Anti-Static	316L	316	304
7	Body Gasket	PTFE		
8	Thrust washer	PTFE		
9	O-Ring	FKM		
10	Packing	PTFE		
11	Bushing	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 (NPS $\frac{1}{2}$ ~NPS3)	A194-8		
18	Handle (NPS $\frac{1}{2}$ ~NPS3)	304		
19	Handle Sleeve (NPS $\frac{1}{2}$ ~NPS3)	VINYL PLASTIC		
20	Lock Device (NPS $\frac{1}{2}$ ~NPS3)	304		
21	Stop Bolt	A2-70		
22	Stop Nut	A2-70		
23	Bolting	A193-B8/A2-70		
24	Bolt Nut	A194-8/A2-70		
25	Bolt Washer	304		
26	Handle Adapter (NPS4)	A351-CF8		
27	Set Screw (NPS4)	A2-70		
28	Bolting (NPS4)	A2-70		
29	Pipe Handle (NPS4)	A53+PLATED Zn		
30	Handle Sleeve (NPS4)	VINYL PLASTIC		

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Easy Automation from Valves Online



The HP range of pneumatic actuators offer a robust and reliable unit specifically designed for use with quarter-turn valves. Available in double and single acting. Both of these actuators are used when a high number of operations are required or when, fast cycling is called for. All our sizing has been based on adding a minimum of 30% safety factor and sized on you using a minimum of 5.5 bar pilot air pressure. The actuators all carry ATEX approval coupled with CE certification. These actuators can be customised and fitted with switchboxes, proximity switches, solenoid pilot valves and speed control devices.

Pilot Solenoid Valve

The HP range of pneumatic actuators offer a robust and reliable unit specifically designed for use with quarter-turn valves. Available in double and single acting. Both of these actuators are used when a high number of op.



Switchbox and Inductive Sensors

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