

Mars Series 88 Fire Safe & Anti-Static Stainless Steel Ball Valve

- Full and Reduced Bore Ball Valve
- Sizes from 1/4" - 3"
- ATEX Approved – FSAS to API 607
- Pressure Rating up to 2000 PSI
- ISO Mounting Pad for Easy Actuation
- Various End Connections

> Description

The Mars Ball Valve Series 88 in Stainless Steel (SF8M) is a heavy duty, fully maintainable three piece, full and Reduced port ball valve. It is suitable for use in hazardous areas and is Fire Safe Certified to API 607 6th Edition and has an Anti-Static device fitted (FSAS). Classed as a high performance ball valve, fitted with reinforced (R-TFE) ball seat and Graphite filled body and neck seals. Ends come in either BSPP, NPT, Socket Weld and Butt weld (SCHD 40).

The Mars Series 88 benefits from a unique encapsulated body bolt design. Body seals are easy to replace and / or maintain in-line without the need for disassembly, simply by dropping the swing out body. This valve has a Fire-Safe certificate by SWRI (South West research institute TX USA), TUV (Germany) and the latest API 607 6th Edition (reflecting the conditions of a fire in the field). A tremendous advantage throughout the oil and gas, refinery and chemical industries. The valves can be used in gas- or dust explosive atmospheres (externally), the equipment is forbidden to be used in a Zone 0, Zone 20 and in Gas zones classified as IIC.

> Options

Full or Reduced bore

Connections:-

BSPP, NPT, Socket and Butt Weld Ends



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Description

The BV5167 is a fully encapsulated ball valve, offered in stainless steel (CF8M), having various end connections and options of full or reduced bore. The valve can be operated both manually or automated with pneumatic or electric actuation. ATEX approved and FSAS to API 607.



Beschreibung

Der BV5167 ist ein vollständig gekapselter Kugelhahn, der in Edelstahl (CF8M) angeboten wird und über verschiedene Endanschlüsse und Optionen mit vollem oder reduziertem Durchgang verfügt. Das Ventil kann sowohl manuell als auch automatisiert mit pneumatischer oder elektrischer Betätigung betätigt werden. ATEX-zugelassen und FSAS nach API 607.



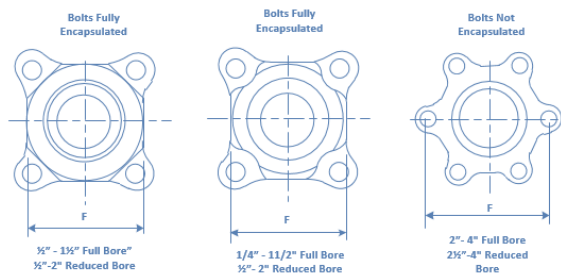
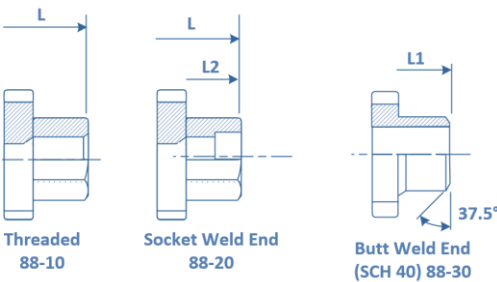
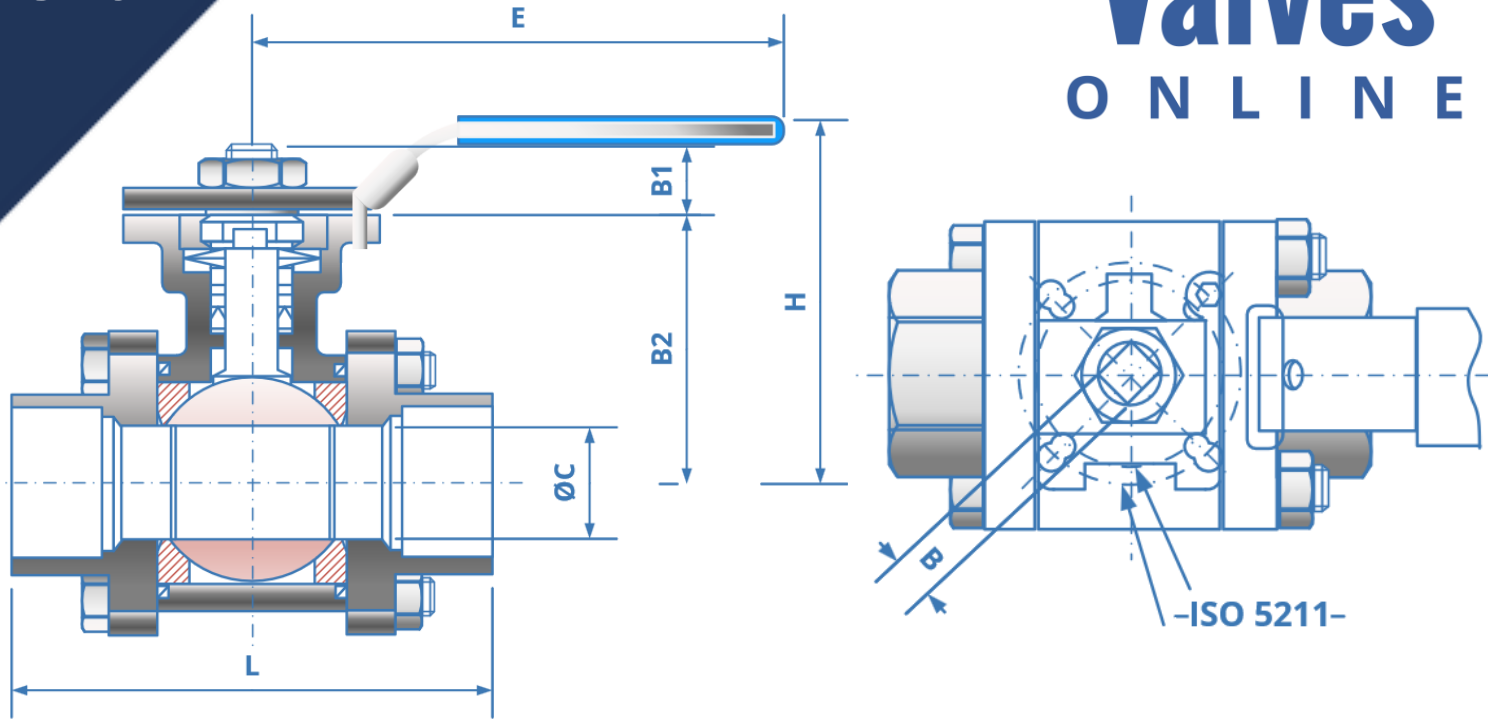
Descripción

La BV5167 es una válvula de bola totalmente encapsulada, que se ofrece en acero inoxidable (CF8M), con varias conexiones finales y opciones de paso total o reducido. La válvula puede operarse tanto de forma manual como automatizada con accionamiento neumático o eléctrico. Aprobado por ATEX y FSAS según API 607.



Description

Le BV5167 est un robinet à boisseau sphérique entièrement encapsulé, offert en acier inoxydable (CF8M), avec diverses connexions d'extrémité et des options d'alésage complet ou réduit. La vanne peut être actionnée manuellement ou automatiquement avec un actionnement pneumatique ou électrique. Approuvé ATEX et FSAS selon API 607.



Dimensions Reduced Bore

Size	C	L	L1	L2	B	B1	B2	H	E	F	ISO 5211	Weight Kg
1/2"	12.6	72.5	75	10	9	6.4	42.6	78	139	9	F03 & F04	0.89
3/4"	15	72.5	74.8	13	9	6.4	42.6	78	139	9	F03 & F04	0.82
1"	20	85.4	89.8	13	11	8.5	46.9	82.6	139	9	F03 & F04	1.29
1 1/4"	25	105.3	109.4	13	11	10.4	59.3	98.5	165	11	F04 & F05	2.01
1 1/2"	32	111	114.4	13	14	10.4	62.6	101.8	165	11	F04 & F05	2.76
2"	38	127.3	142.8	16	14	13.4	79	127	215	14	F05 & F07	4.21
2 1/2"	50	142.8	185	16	17	13.4	87.7	135.6	215	14	F05 & F07	5.83
3"	65	185	205	16	17	16.8	108.7	167	262	17	F07 & F10	12
4"	80	205	240	20	17	17.8	117.7	176	262	17	F07 & F10	16.2

Dimensions Full Bore

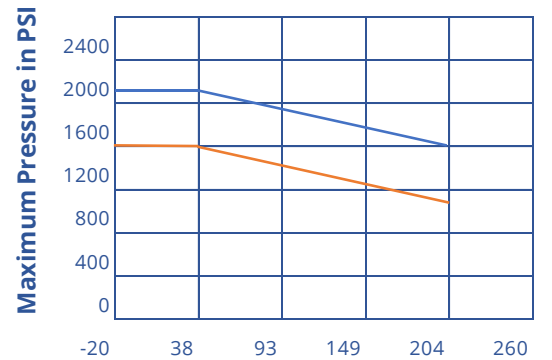
Size	C	L	L1	L2	B	B1	B2	H	E	F	ISO 5211	Weight Kg
1/4"	11.5	72.5	75	10	9	6.4	42.6	78	139	9	F03 & F04	0.89
3/8"	12.6	72.5	75	10	9	6.4	42.6	78	139	9	F03 & F04	0.89
1/2"	15	72.5	75	10	9	6.4	42.6	78	139	9	F03 & F04	0.82
3/4"	20	85.4	90	13	9	8.6	46.9	82.6	139	9	F03 & F04	1.29
1"	25	105.3	110	13	11	10.4	59.3	98.5	165	11	F04 & F05	2.01
1 1/4"	32	111	115	13	11	10.4	62.6	101.8	165	11	F04 & F05	2.76
1 1/2"	38	127.3	130	13	14	13.4	79	127	215	14	F05 & F07	4.21
2"	50	142.8	143	16	14	13.4	87.7	135.6	215	14	F05 & F07	5.83
2 1/2"	65	185	185	16	17	16.8	108.7	167	262	17	F07 & F10	12
3"	80	205	205	16	17	17.8	117.7	176	262	17	F07 & F10	16.2
4"	102	240	240	20	17	16.8	133.7	192.7	312	17	F07 & F10	25.8

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> Dimensions and Standards

Specification

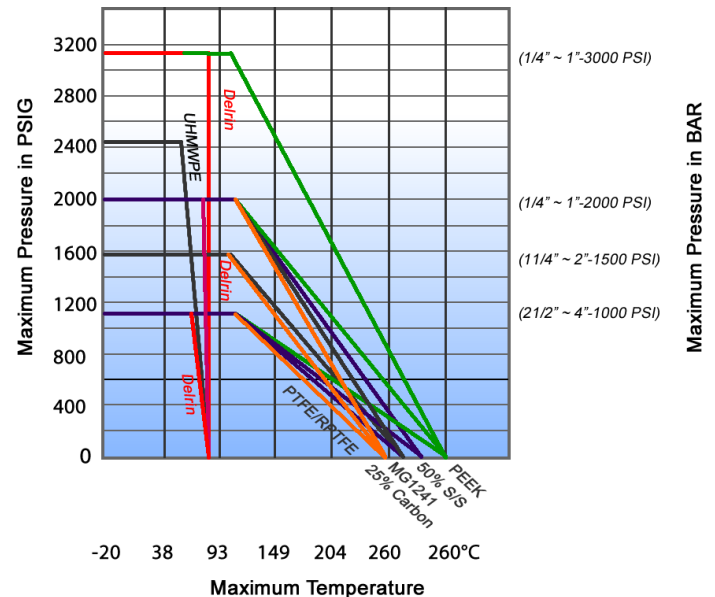
Pressure range	1/4" to 1" 2000 PSI 1 1/4" to 2" 1500 PSI 2 1/2" to 4" 1000 PSI
Size	1/4" to 4" Full Bore, 1/2" to 4" Reduced Bore
Temperature range	minus 20° to + 200° (see graph)
Movement	90 deg turn
Cycle life	1,000,000 operations
Standard Approvals/Compliance	ANSI B16.34, B16.25, B1.20.1, API 6D, 598, 607 4th Edition, ISO 5029, 5211, 5752, DIN 3337, 3357, 50.049 Test Cert. EN 10204/DIN 50.049-
Options	TA-Luft, NACE MR-0175,



Maximum Temperature in °C
Seat Rating Chart

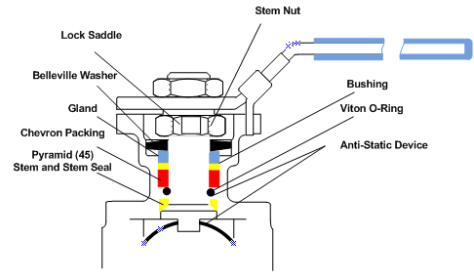
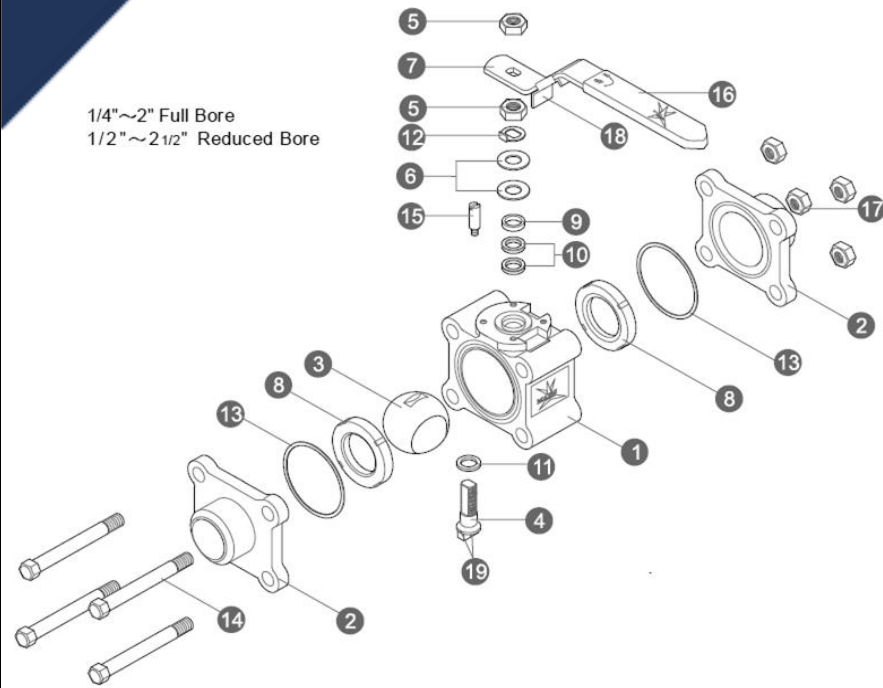
BREAKAWAY TORQUE & C.V.

Size	Break Away Torque N/M	C.V. (G.P.M.)			
		Full	Red.		
inches	DN	Full	Red.	Full	Red.
1/4"	8	8	8	8	8
3/8"	10	8	8	8	8
1/2"	15	8	8	15	8
3/4"	20	10	10	34	15
1"	25	16	10	56	34
1 1/4"	32	23	16	85	56
1 1/2"	40	33	23	125	85
2"	50	47	33	250	125
2 1/2"	65	62	47	320	250
3"	80	101	62	580	350
4"	100	114	101	1020	580



> Dimensions and Standards

1/4"~2" Full Bore
1/2"~2 1/2" Reduced Bore



Parts List

No.	Part Name	Material	Qty
1	Body	CF8M	1
2	End Cap	CF8M	2
3	Ball	SUS316	1
4	Stem	SUS316	1
5	Stem Nut	SUS304	1
6	Belleville washer	SUS301	1
7	Handle	SUS304	1
8	Ball Seat	RPTFE	2
9	Gland	SUS304	1
10	Gland packing	PTFE	1
11	Stem Seal	Carbon Graphite	1
12	Stop washer	SUS 304	1
13	Joint Gasket	PTFE	2
14	Bolt	SUS 304	*
15	Stop Pin	SUS 304	1
16	Handle Sleeve	Vinyl	1
17	Bolt Nut	SUS 304	1
18	Stem Washer	SUS 304	1
19	Gland Packing	#	1
20	Locking Device	SUS 304	1
21	Pin Nut	SUS 304	1
22	Washer	SUS 304	1
23	Antistatic-Device	SUS 304	@
24	O-Ring	Viton	1

1. PYRAMIDAL STEM WITH STEM SEAL

First stage of defense against leakage. The 45 degree slope of the stem accompany by the stem seal effectively blocks all leak path from forming during rotation.

2. V-RING STEM PACKING

Second stage of defense against leakage. Triple layers of V-Ring Chevron packing expands side ways as it is being compressed, blocking all air pockets thus preventing leak path. The grinding effect of metal to PTFE contact.

3. GLAND

Made of stainless steel, equally distributes the compressive force on the packing and the seal.

4. BELLEVILLE WASHER

Release stored compressive energy for automatic compensation of seals due to wear and tear fluctuation of temperature and pressure.

5. LOCK SADDLE

Stabilizes the stem nut to keep it from loosening.

6. STEM NUT

Compress the entire stem system to enable blocking of leakage.

7. ANTI-STATIC DEVICE

Standard applied between stem and ball, stem and body.

> Options

Mars Series 88 Heavy Duty, 3 PCE Ball Valve.

WATER JACKET

This ball valve is particularly good with heating jackets, which prevent solidification and blockage.

V-CONTROL

V control valves match the control of globe valves, excellent for modulating service. Compact, lightweight and less expensive than globe valves.

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