



3-Way Mars Series 33 Ball Valve

- Live Loaded Chevron PTFE Gland Packing
- Direct Mount Pad
- Full Bore
- Various End Connections
- L or T Flow Paths for Diverting
- Valve can be welded into pipelines
- Fully Maintainable

Description

A 3-Way full bore ball valve with L or T port flow path. The body material is in CF8M/316 Stainless steel, with a 5 seat designed, reinforced PTFE and live loaded chevron PTFE gland packing. This direct mount valve is suitable for manual or for automatic actuation, offering superior performance and reliability. Pressure rating 1000 PSI and temperatures up to 200°C. Connections are Screwed BSP or NPT, Butt or Socket Weld and flanged PN16 or ANSI 150.

Available in either L port (Diverter Valve) or T port and is supplied with lockable steel lever / PVC sleeve. ATEX and SIL Approved.

Using our powerful range of Pneumatic and Electric actuators. On-Off control couldn't be simpler.

Conventional methods of mounting are replaced and overcome by directly mounting the actuator onto this 3-way high performance ball valve.



Description

Full Bore Stainless Steel 3 Way Ball Valve. Offered in flow paths of L or T configuration. Low torque and easily actuated because of the ISO direct mount pad. Supplied with lever handle.
Temperature Range -20°C to 200°C.
Operating pressure: 1/4" to 1" 1000 PSI, 1 1/4" to 2" 800 PSI and 2 1/2" to 4" 600 PSI



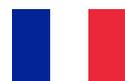
Beschreibung

3-Wege-Kugelhahn aus Edelstahl mit vollem Durchgang. Angeboten in Flusspfaden der L- oder T-Konfiguration. Geringes Drehmoment und leicht zu betätigen durch ISO Direct Mount Pad. Lieferung mit Hebelgriff.
Temperaturbereich -20°C bis 200°C.
Betriebsdruck: 1/4" bis 1" 1000 PSI, 1 1/4" bis 2" 800 PSI und 2 1/2" bis 4" 600 PSI



Descripción

Válvula de bola de 3 vías de acero inoxidable de paso total. Se ofrece en trayectos de flujo de configuración L o T. Par bajo y de fácil accionamiento gracias a la almohadilla de montaje directo ISO. Se suministra con manija de palanca.
Rango de temperatura -20°C a 200°C.
Presión de funcionamiento: 1/4" a 1" 1000 PSI, 1 1/4" a 2" 800 PSI y 2 1/2" a 4" 600 PSI



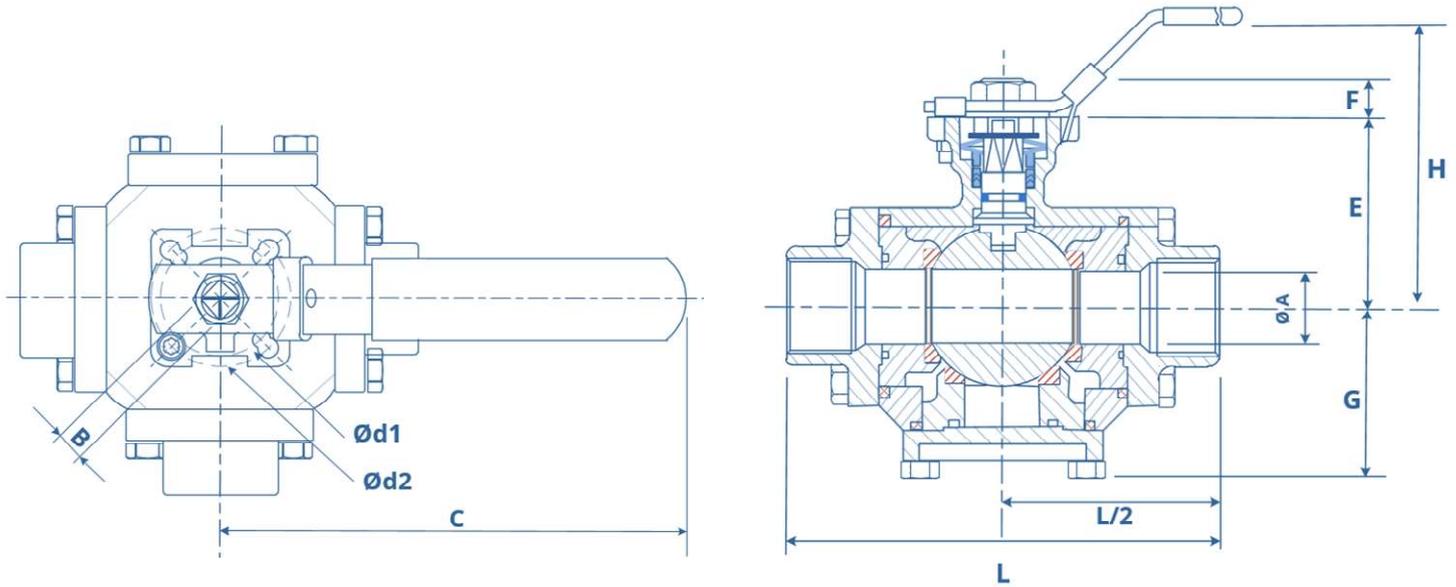
Description

Robinet à tournant sphérique à 3 voies en acier inoxydable à passage intégral. Offert dans les chemins d'écoulement de configuration L ou T. Faible couple et actionnement facile grâce au coussin de montage direct ISO. Livré avec béquille.
Plage de température -20°C à 200°C.
Pression de fonctionnement : 1/4" à 1" 1000 PSI, 1 1/4" à 2" 800 PSI et 2 1/2" à 4" 600 PSI



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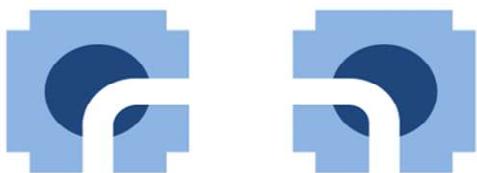
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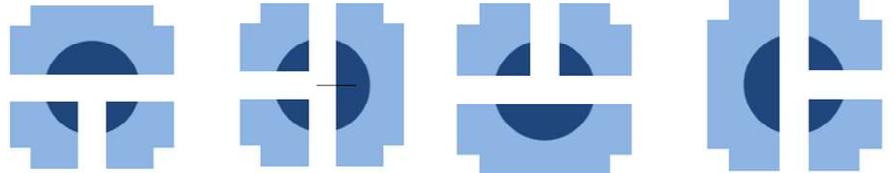
Dimensions

Size	A	B	C	E	F	G	H	L	d1	d2	W(kg)	ISO5211
¼"	11.6	9	150	43.9	9	35.1	85	92	36	42	1.4	F03/F04/F05
3/8"	12.7	9	150	43.9	9	35.1	85	92	36	42	1.4	F03/F04/F05
½"	15	9	150	43.9	9	35.1	85	92	36	42	1.3	F03/F04/F05
¾"	20	11	165	54.2	10.5	45.3	93	110	42	50	2.81	F04/F05
1"	25	11	180	64.1	10.5	56.8	108	144	42	50	4.76	F04/F05/F07
1 1/4"	32	14	215	78.5	13	59.8	127	146	50	70	5.75	F05/F07
1 1/2"	38	17/19	263	94.9	18	72.3	152	164	70	102	10.56	F07/F10
2"	50	17/19	313	101.6	18	80.5	159	184	70	102	13.42	F07/F10
2 1/2"	65	17/19	344	120	18	96.8	177	228	70	102	21.31	F07/F10
3"	76	22	370	132.9	23	105	195	265	102	125	28.85	F10/F12
4"	100	22	510	164	23	131.5	226	317	102	125	57.51	F10/F12

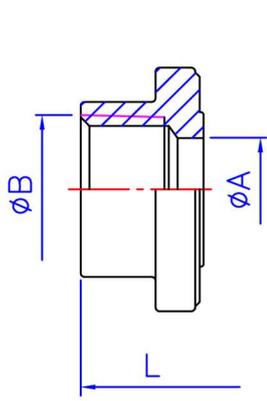
L - PORT



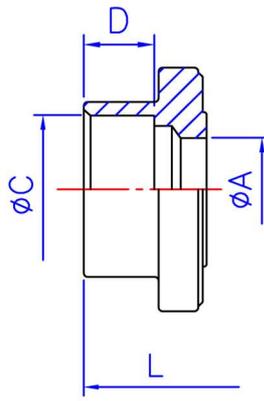
T - PORT



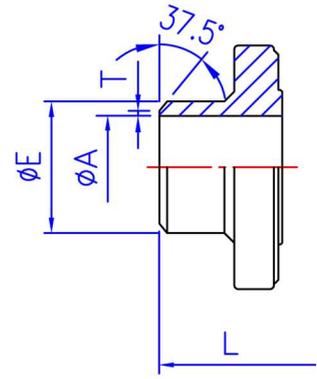
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THREADED END



SOCKET WELD END



BUTT WELD END

Dimensions

Size	ϕA	ϕB	ϕC	D	ϕE	L	T
1/4"	11.6	NPT	14.3	10	16.2	92	1.6
3/8"	12.7		17.6	10	17.5	92	1.6
1/2"	15		21.9	10	22.7	92	1.6
3/4"	20	PT	27.3	13	27.5	110	1.6
1"	25		33.9	13	34	144	1.6
1 1/4"	32	DIN259	42.8	13	42.7	146	1.6
1 1/2"	38	DIN2999	48.9	13	48.6	164	1.6
2"	50	ISO228	61.3	16	60.5	184	1.6
2 1/2"	65		ANSI 74 PN 76.9	16	76.3	228	2
3"	76	BSP	90	16	90	265	2
4"	100		115.5	20	116	317	3.5

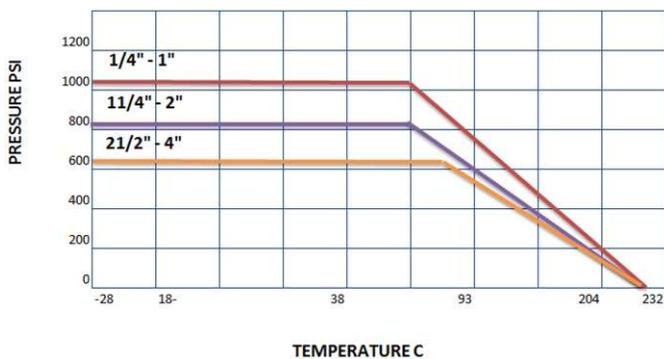
Break Away Torque

Valve Size		R-PTFE Seats	
Inches	DN	Nm	Inch-Lb
1/4"	8	8	75
3/8"	10	8	75
1/2"	15	8	75
3/4"	20	17	150
1"	25	36	325
1 1/4"	32	42	370
1 1/2"	40	68	600
2"	50	94	840
2 1/2"	65	25	1100
2"	80	198	1750
4"	100	250	2250

30% safety factor included, standard Mars Valves are assembled with silicon free based lubricant; torques for dry assembled valves please call us.

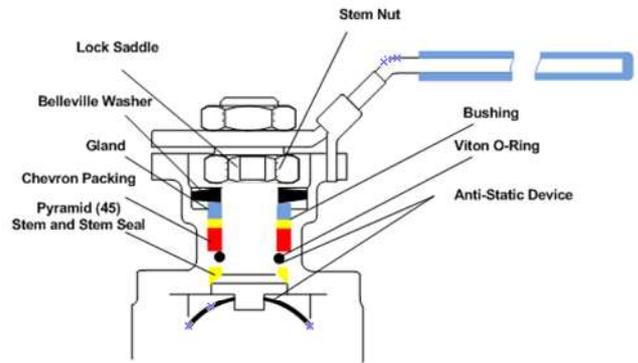
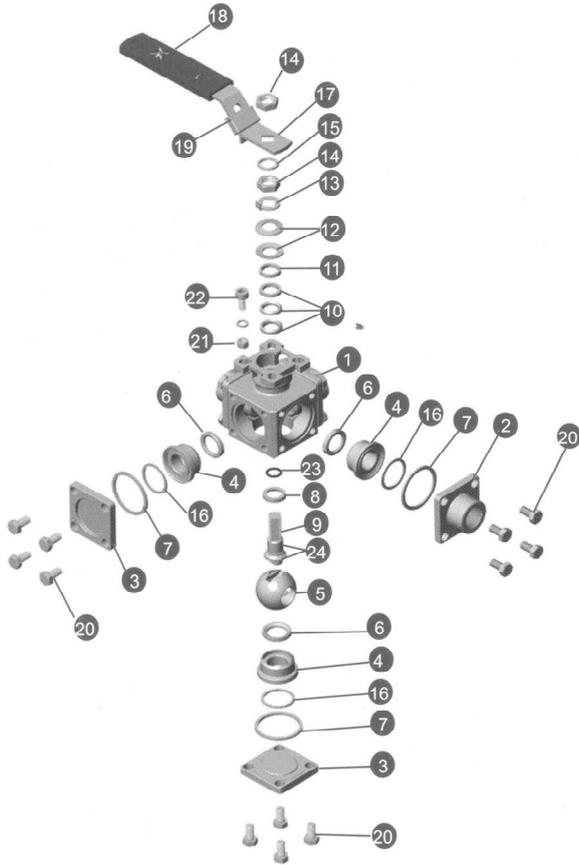
Pressure Vs Temperature Chart

RPTFE SEATS



Specification

Pressure range	1/4" to 1" 1000 PSI
	1 1/4" to 2" 800 PSI
	2 1/2" to 4" 600 PSI
Size	1/4" to 4" Full 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, B16.10, API 6D, 598, ISO 5211, DIN 3337, 50.049-3, BS5351,6755 Test Cert. EN 10204 - DIN 50.049-31B



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.

Materials

No.	Part Name	Material	Qty
1	Body	ASTM A351 Gr. CF8M	1
2	End Cap A	ASTM A351 Gr. CF8M	3
3	End Cap B	ASTM A351 Gr. CF8M	2
4	Stem Retainer	ASTM A351 Gr. CF8M	5
5	Ball	SUS316	1
6	Seat	PTFE/RTFE	5
7	Joint Gasket	PTFE	5
8	Stem Seal	PTFE	1
9	Stem	SUS316	1
10	Gland Packing	25% Glass Fibre Filled + PTFE	SET
11	Gland Bush	SUS304	1
12	Belleville Washer	SUS301	2
13	Stop Washer	SUS304	1
14	Stem Nut	SUS304	2
15	Stem Washer	SUS304	1
16	Retainer Seal	PTFE	5
17	Handle	SUS304	1
18	Handle Sleeve	Vinyl	1
19	Locking Device	SUS304	1
20	Bolt Nut	SUS304	20
21	Pin Nut	SUS304	1
22	Stop Pin	SUS304	1
23	O-Ring	VITON	1
24	Antistatic Device	SUS304	#