

**VALBOL**

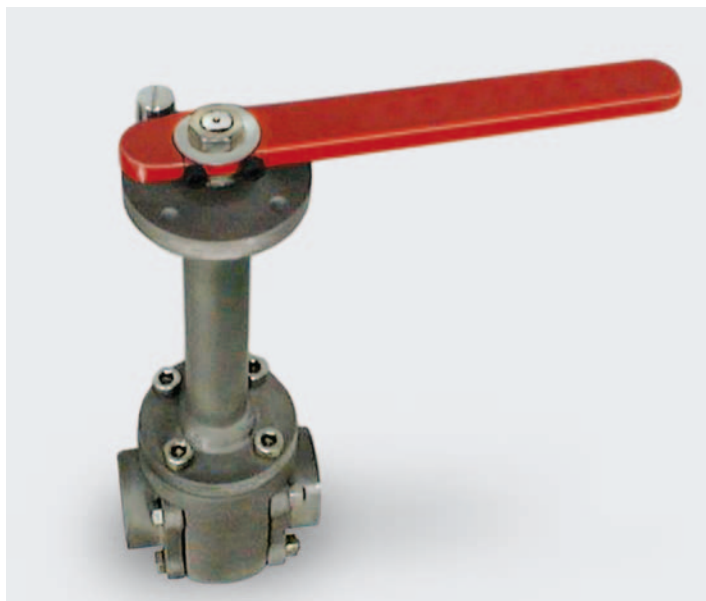
Válvulas Worcester de Argentina S.A.

Series Z44 Cryogenic Service

Rev: 01 | 01-2014 | N°: VWZ44

Series Z44 Ball Valve

High Performance Ball Valves for Cryogenic Service



Cryogenic ball valves designed to handle tough applications on all Types of cryogenic fluids up to -425°F like oxygen, hydrogen, methane, ammonia, LNG, are available from VALBOL.

Series Z44 valves offer all the advantages of VALBOL Series 44 three-piece

- Ball Cavity Relief Hole
- Blowout-Pressure Safe Stem
- Bonnet Extension
- Multiple stem seal rings in packing box assure zero leakage.

Z44 Three-piece Cryogenic Ball Valves

VALBOL Series Z44 ball valves provide the best performance for the least installed cost in the 1/2" – 2.1/2" size range. Three-piece construction also means that the valve functions as both valve and union. This is a valuable feature in welded piping systems where line breaks are required.

Easily Automated for On/Off or Modulating Control

The lightweight, compact design of the Series Z44 valves combined with VALBOL own Series 38 pneumatic actuators creates a control package that's small yet efficient. VALBOL actuators are engineered to match the performance of the valve for optimum power and safety. A wide range of options is available to complement your pneumatic or electric package, from computer compatible controls to limit switches. For ON/OFF or throttling applications, when used with a positioner, the actuated K Series valve is a dependable, precise unit. Because VALBOL supplies all the elements of your control packages, we are also your single source if you ever need replacement parts or service.

Reduced Installation and Maintenance Costs

- Quarter-turn for ease of operation.
- Wrench indicates direction of flow.
- Unique stem seal compensates for wear and temperature fluctuations.
- Resilient seats give bubble tight sealing.
- Seat design gives low torque and reduced seat wear.
- Available with variety of pipe ends: Flanged, screwed, socket weld or butt weld.
- Easily adaptable to either pneumatic or electric actuators for field mounting.
- Compact, safe, bottom entry adjustable stem.
- Cannot be removed when valve is under pressure.
- Smooth two-way flow path for maximum Cv.
- Separate body seals prevent atmospheric leakage.

Specifications

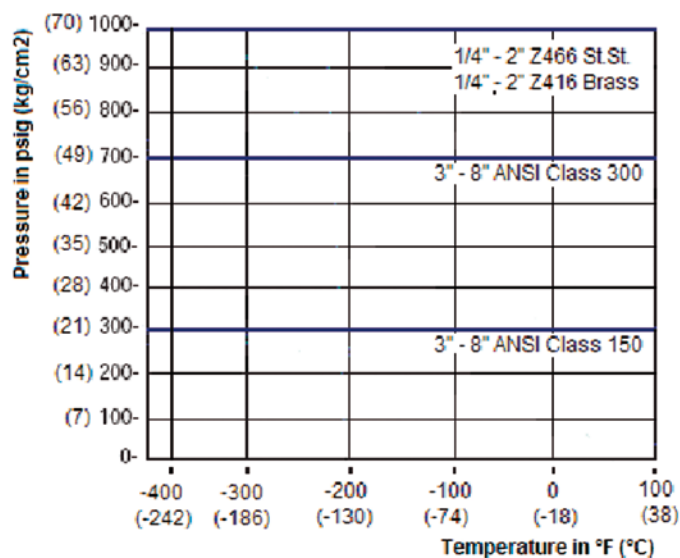
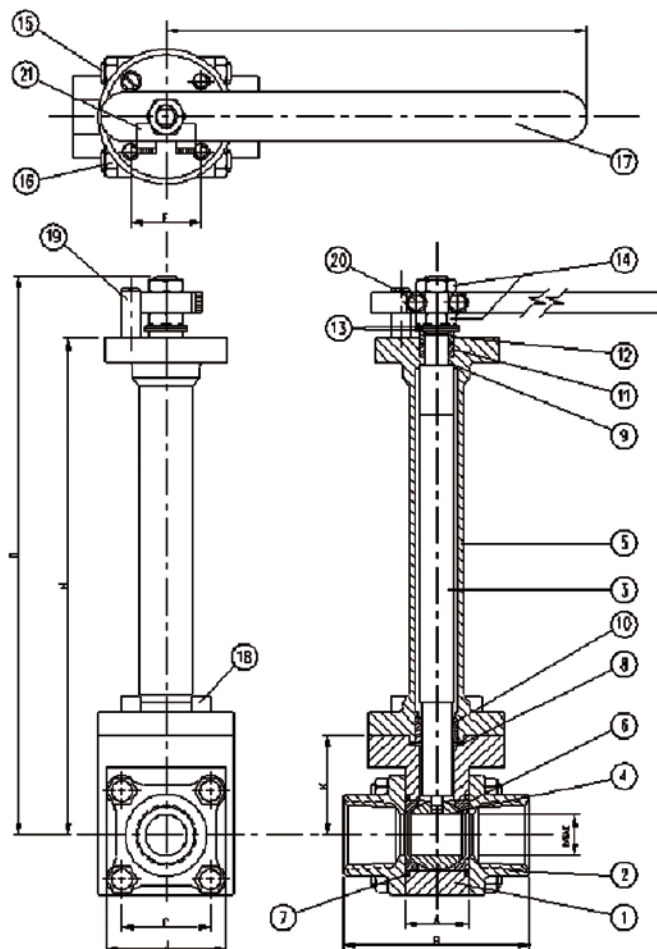
Sizes: 1/2", 3/4", 1, 1.1/4", 1.1/2", 2"**Style:** Z44 three-piece**Rating:** ANSI Class 150/300**Ends:** Flanged, Screwed, Socket Weld, Butt Weld**Body:** Type 316 Stainless Steel**Ball & Stem:** Type 316 Stainless Steel**Seats:** C/Fill**Body Seals:** PTFE coated Stainless Steel "S" gasket**Max. Pressure:** 1.000 psi**Max. Temp:** -425°F C/Fill seats**Leakage Rate:** Bubble tight**Service*:** Manual On/off, Automated On/off, Throttling Control

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Pressure/Temperature Ratings Seat & Seal Materials**Materials and Construction**

ITEM	DENOMINACION	MATERIAL	CANT.
1	BODY	ASTM B285-C37700	1
2	END	B285-C37700	2
3	STEM EXTENSION	ASTM A276 GR316	1
4	BALL	ASTM A276 GR316	1
5	BONNET EXTENSION	ASTM B124-C37700	1
6	SEAT	WELL	2
7	BODY SEAL	A276 GR316 - TEFLON	2
8	STEM SEAL	A276 GR316 - TEFLON	1
9	STEM WASHER	REINFORCED TEFLON	1
10	BEARING	REINFORCED TEFLON	1
11	STEM RETAIN	REINFORCED TEFLON	1
12	FOLLOWER	AISI 416	1
13	BELLEVILLE WASHER	A276 GR304	2
14	STEM NUT	A276 GR304	2
15	STUD	A320 - B8	4
16	NUT	A194 - GR8	8
17	HANDLE	C.S	1
18	ALLEN SCREW	A320 - B8	4
19	STOP	AISI - 276 - GR304	1
20	HANDLE SCREW	C.S	2
21	YOKE	C.S	1

SIZE	DIMENSIONS									
	A	B	C	D	F	H	I	J	K	PORT
1/2"	21.0	65.3	31.8		35.0		213.0	45.0		11.1
3/4"	25.0	71.0	38.1	270.3	35.0	240.0	213.0	51.0	44.0	14.2
1"	32.0	93.7	44.5	280.3	35.0	250.0	213.0	61.0	50.0	20.6
1 1/4"	42.0	108.0	50.8		35.0		213.0	67.0		25.4
1 1/2"	49.0	115.0	57.2	304.0	55.0	272.3	225.0	76.0	60.0	31.8
2"	57.0	126.5	66.7	309.3	95.0	277.0	225.0	88.0	63.0	38.1

Válvulas Worcester de Argentina S.A. | Valbol

Osvaldo Cruz 3333 (C1293ADL) C.A.B.A. - Argentina | Tel.: (5411) 5533-5200 / Fax.: (5411) 5533-5290 / E-mail: mail@valbol.com.ar / www.valbol.com.ar

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