

Ball Valve TECVAL
Typ VB-15

CTECVAL Valves

2-Way 3-Pieces Full Bore Ball Valve (FxF) Up to 210 bar (3000 PSI)

With a smooth and safe movement, VB-15 TECVAL full bore ball valve is designed to work with liquids or gases under either high pressure or moderate vacuum service. To be used in numerous applications, they are manufactured in several sizes, connections and alloys.



Features

- Full Bore.
- Three pieces to allow a full disassembling.
- Smooth operating.
- Easy cleaning and maintenance.
- No ejectable stem design.
- Anti-leak stem with double o-ring seal.
- 100% tested.

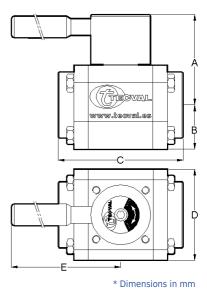
Options

- Automation through electrical actuator.
- AISI-316 Handle. M
- Special seats for high pressures, up to 1" size.
- Degreased for oxygen service.
- Automation through pneumatic actuator.
- Prepared for a quick automation (ISO 5211).
- Flanged Connections. B

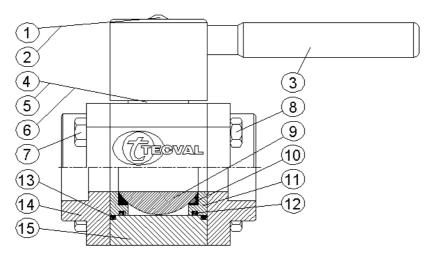
Technical data

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Max. Pressure	Standard PTFE Seats 105 bar (1500 PSI) Up to 1" Option Special Seats 210 bar (3000 PSI)						
Temperatures	-20ºC/200ºC (-4ºF/392ºF)						
Dimensions	3/8"	1/2"	3/4"	1"	11/4"	1½"	2"
А	55	57	60	75	82	101	107
В	25	27	30	37	48	55	68
C	80	85	90	100	125	125	150
D	50	54	59	74	92	110	130
E	105	105	105	140	140	190	190
Orifice Size	12	15	20	25	32	40	50
Maximum Cv	9	18	29	40	85	120	160
Order codes							
BSP	3904	3908	3912	3916	3900	3920	3924

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BSP	3904	3908	3912	3916	3900	3920	3924
NPT	3905	3909	3913	3917	3901	3921	3925
SW	3906	3910	3914	3918	3902	3922	3926
BW	3907	3911	3915	3919	3903	3923	3927
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Materials

Νº	Part	Carbon Steel AC	Stainless Steel AISI-316 A4	Special Alloys
1	Set screw	AISI-304 (DIN1.4301)	AISI-304 (DIN1.4301)	AISI-316 (DIN1.4401)
2	ld. plate	PVC	PVC	PVC
3	Handle	Black painted aluminium	Black painted aluminium	Black painted aluminium
4	Stem	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)	Special alloy
5	Stem o-ring	FPM	FPM	FPM
6	Stem bearing	Delrin	Delrin	Delrin
7	Screw	Carbon Steel	AISI-304 (DIN1.4301)	AISI-316 (DIN1.4401)
8	Nut	Carbon Steel	AISI-304 (DIN1.4301)	AISI-316 (DIN1.4401)
9	Ball	AISI-316 (DIN1.4401)	AISI-316 (DIN1.4401)	Special alloy
10	Seat	P.T.F.E.	P.T.F.E.	P.T.F.E.
11	Seat carrier	Carbon Steel	AISI-316 (DIN1.4401)	Special alloy
12	Seat o-ring	FPM	FPM	FPM
13	Body o-ring	FPM	FPM	FPM
14	End connection	Carbon Steel	AISI-316 (DIN1.4401)	Special alloy
15	Body	Carbon Steel	AISI-316 (DIN1.4401)	Special alloy

Special alloys

Among the wide range of alloys existing, TECVAL has selected those considered by our customers as most suitable, which we stock to ensure a quick and effective supply. Whether you do not find the required alloy or need further information about our exotic alloys valves and fittings, please address your inquiry to our Technical Department.

AISI-316Ti (1.4571) A6, AISI-904L (1.4539) A9, Duplex (1.4462) AD, SuperDuplex (1.4410/1.4501) AS, 254-SMO (1.4547) AV, Titanium Gr.2 (1.7864) TI, Hastelloy C-276 (2.4819) HA

Ordering information

References are formed by three parts:

valve Code
Look for it in the
order codes chart
on the previous
page.

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Option/s

-If required, add the code/s from the options section on the previous page (in alphabetical order)

Material

-Look for the code on the materials chart.

Actuators

Upon request, ball valves VB-15 can be delivered with pneumatic actuators, either double acting or spring return. The actuators can be worked by standarised or bottled air.

Electrical actuators of 24V, 115V and 230V can also be assembled.

All actuators can include limit switches, electrovalves and a emergency wheel, and are assembled and tested with the valve.

Tests

According to API STANDARD 598, each valve is tested with nitrogen at 100 bar for 15 sec to check the leakage in the seat and packing. Upon request, the corresponding materials and test certificates can be delivered with the valve.

Packaging

All TECVAL valves are supplied packed in individual polyethilene airtight bags, which include the general features of the valve. End screw connections are protected with polyethilene caps. Everything is 100% recyclable.

An example of valve and two options: Ball valve VB-15 1/2"SW with AISI-316 handle and PEEK seats of SuperDuplex:

3910 IM AS The reference required to place the order is 3910IMAS

Subject to changes without notice