

Ball Valve

Model BVFP2411/21 – DZR Brass Female Parallel – Datasheet – Page 1 of 2

Description

The FP24 Ball Valve is a full-bore high-quality quarter turn spherical valve with female parallel fittings for copper tube. The body is forged in corrosion resistant DZR brass. The range is WRAS approved for wholesome water. The finish is natural.

The BVFP2411/21 has a serviceable PTFE spindle seal with gland nut. The nut can be tightened or the seal renewed in service. (Most ball valves have a non-serviceable O-ring spindle seal).

Specification		
Pressure Supply	bar	Approx. 35 @ 30° C Approx. 22 @ 80 ° C Approx. 15 @ 100 ° C
Pressure Limits	bar	From 40 up to 20
Pipe Connection		Female BSPP
Approval		WRAS Approval Number: 2203354
Materials		
Body		Forged DZR Brass CZ132
Seat		PTFE (Virgin)
Ball		DZR Brass
T-handle		Aluminium
Lever		Steel

Applications

- Cold water – “Wholesome” i.e. Drinking water
- Hot water
- Chilled water
- Heating

The *Water Regulations Guide Second Edition 2000-01 (now retired)* allows Ball Valves to be used as “Stop valves” and “Servicing Valves” – G2.8.

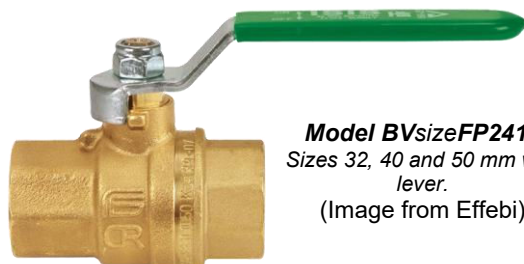
For the latest guidance and regulations refer to the WaterRegsUK website by following the provided links :

- [Guidance](#)
- [Regulations & Byelaws](#)

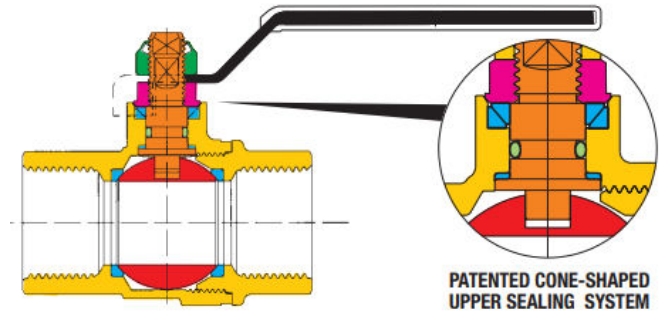
Options



Model BVsizeFP2421
Sizes 15, 20 and 25 mm with
T-handle
(Image from Effebi)

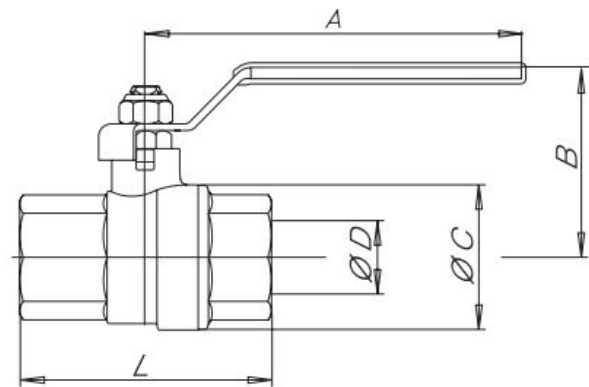


Model BVsizeFP2411
Sizes 32, 40 and 50 mm with
lever.
(Image from Effebi)



Section View

Dimensions



Images from Effebi

DN	A	B	C	D	L	K _v
15	85	44	32	15	61	15
20	105	52	40	20	70	28
25	105	56	48	25	84	39
32	130	63	57.5	32	96	84
40	130	69	70	40	106.5	156
50	165	83	85.5	50	127.5	243

Note

1. K_v is flow required in m³/hr to produce 1 bar differential pressure drop with valve fully open.
2. All unit-less dimensions in mm, unless stated otherwise.

Codes and Descriptions

Size	Code	Description
15 mm	BV15FP2421	DN15 Ball Valve ISIS Green Ali Tee DZR FBSP
20 mm	BV20FP2421	DN20 Ball Valve ISIS Green Ali Tee DZR FBSP
25 mm	BV25FP2421	DN25 Ball Valve ISIS Green Ali Tee DZR FBSP
32 mm	BV32FP2411	DN32 Ball Valve ISIS Lever DZR FBSP
40 mm	BV40FP2411	DN40 Ball Valve ISIS Lever DZR FBSP
50 mm	BV50FP2411	DN50 Ball Valve ISIS Lever DZR FBSP

Arrow Valves Ltd

Tel: 01442 823123

Fax: 01442 823234

www.arrowvalves.co.uk

Arrow Valves Ltd reserve the right to change specifications, design and materials at any time without notice.
All unit-less dimensions in mm.

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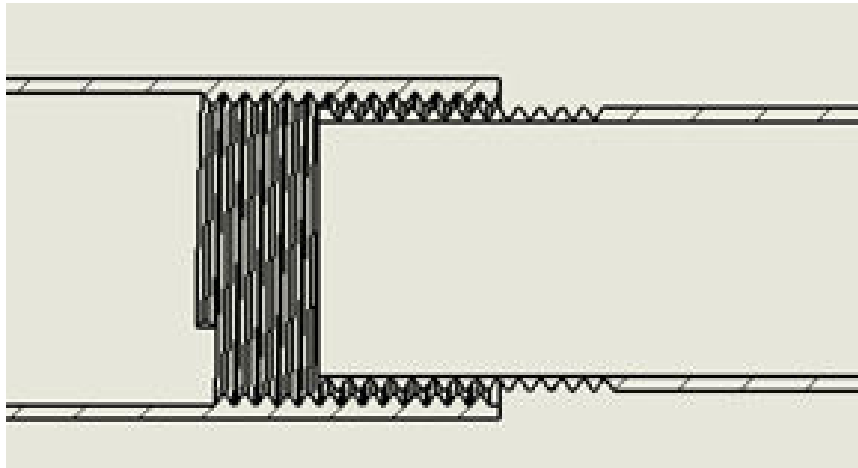
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BSP Parallel Connection Guidance

Apply a suitable sealant to the male threaded part, this can be PTFE tape or liquid sealants. Arrow Valves recommend Permabond MH052. Do not use hemp. Check the internal thread length and make sure that the male thread does not exceed this length when fitted together as shown in the figure below .

Thread Size (DN)	Number of turns after hand tightening
15	$\frac{3}{4}$ to 1
20	$\frac{3}{4}$ to 1
25	$\frac{3}{4}$ to 1
32	$\frac{3}{4}$ to 1
40	1 to 1 $\frac{1}{4}$
50	1 to 1 $\frac{1}{4}$



NOTE: Hoop stress is a radial stress applied to cylindrical objects such as pipework and can occur when too much sealant or tape is placed on the male thread causing an outward force on the female fitting when connected and over tightened. Tapered fittings are more prone to hoop stress and great care should be taken when making a tapered joint.

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