

Single Check Valve (SCV)

Model EB420 - DZR Brass Compression or Female BSPP - Datasheet

Description

Single Check Valves with DZR brass Valve Bodies and compression or female BSP connections.

Sprung-loaded Cartridge with resilient seat provides positive closure, no water hammer and low opening pressure. Hot-stamped DZR compression nuts with fine thread minimises the torque required to make the joint.

Model 303 is an economy WRAS approved Single Check Valve available in 15 mm compression only.

Pipe Connectors

Model EB420 with compression ends is designed for copper tube. EB420 with Female BSP Parallel ends is suitable for steel pipes but can be used for a range of plastic pipes with adapters.

For protection of flexible hoses (e.g. washing machine hoses) refer to model EB235. For large check valves DN65+ (flanged and female BSPP) refer to EB402.

Specification

Pressure	16 bar max.
Test Pressure	16 bar (reverse)
Temperature max.	
Continuous	65° C
Intermittent	90° C
Approvals	WRc (WRAS) approved

Materials

Body	DZR Brass CZ132
Spring	Stainless steel
Cartridges	POM
Elastomers	NBR

Applications

Backflow prevention for fluids in categories 1 – 2 (refer to Schedule 1 of Water Regulations July 1999). Fluid Category 2 includes -

- Fire Sprinkler systems without additives
- Hot water
- Water cooled air conditioning without additives
- Branch to steel pipes (black & galv. from supply pipe)
- Non return valve for pumps
- Domestic softening plant (common salt regeneration)



Model EB22C420
22 mm Single Check Valve with Compression ends.

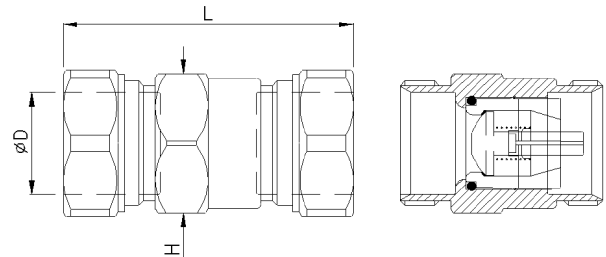
Water Regulations

Single Check Valves are suitable for backflow protection of Fluid Category 2 risks as defined in the new Water Regulations – July 1999.

Test points across a single check valve (EB device) are not required by the new Water Regulations.

Check valves must not be buried. However they can be installed in a chamber below ground. The Water Regulations generally require "Point of Use" protection but whole site and zone are also recognised. The local water company can advise.

Dimensions



Model EB15C303 – 15 mm compression only - Nickel

Size ØD	H (AF) (Hexagon)	L Comp	L FBSPP
15 mm model 303	22	64	-
15 mm / DN15	25	56	45
22 mm / DN20	31	63	54
28 mm / DN25	38	67	64
35 mm / DN32	46	140	70
42 mm / DN40	52	154	76
54 mm / DN50	65	174	88

Codes and Descriptions

Sizes	Code	Description
15	EB15C	Single Check Valve Chrome Comp
15, 22, 28, 35, 42, 54	EBsizeC420	Single Check Valve Brass Comp
DN15, 20, 25, 32, 40, 50	EBsizeFP420	Single Check Valve Brass Female

Note

Valves with compression ends from 35 mm and larger are manufactured with compression adapters (DZR brass). The BSP threads are locked and sealed with a WRAS approved anaerobic adhesive.

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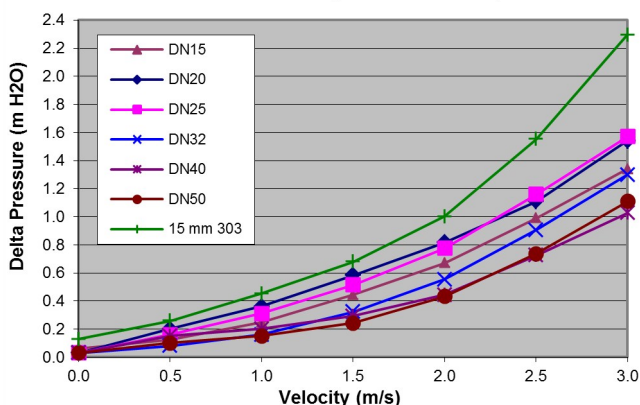
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All unit-less dimensions in mm.

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Head Loss / Flow Chart
Model EB420 (EB303 15 mm)



Notes

Velocity based on flow of water through the bore of copper tube table X. See Flow Table to find the actual flow rate.