

Verifiable Double Check Valve

Model EC453 – Flanged - Datasheet

Description

The Socla EC453 Verifiable Double Check Valve is approved for backflow protection. The valve is servicable allowing the cartridges to be changed in-situ via the inspection covers on the top of the valve. The ductile iron body is epoxy coated and suitable for wholesome water.

To comply with WRAS approval and fluid category 3 backflow protection, the valve must be installed in the horizontal position.

Pipe Connections

Flanged - PN16 (DN65-DN150)
PN10 (DN200-DN250)



Model EC100P453

Specification

Pressure (working) 16 bar max up to and inc. DN150
10 bar DN200 and above
Opening pressure 0.1 bar
Temperature -10° C min. to 95° C max.

Materials

Body Ductile iron – epoxy coated (Blue)
Springs Stainless steel 316
Closing System DZR brass
Elastomers EPDM
Fasteners Stainless steel
Water Regulations Approval 1411322

Applications

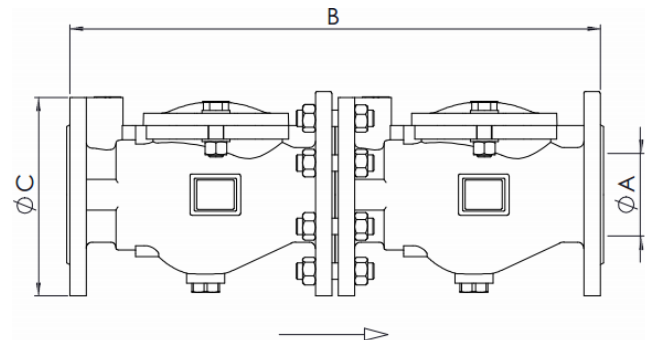
Backflow prevention for fluids in categories 1 – 3 (refer to Schedule 1 of Water Regulations July 1999). Fluid Category 3 includes -

- Water softening – commercial (common salt)
- Whole site protection – where Fluid Category 3 required
- Application deemed category 3 by the water company

Water Regulations

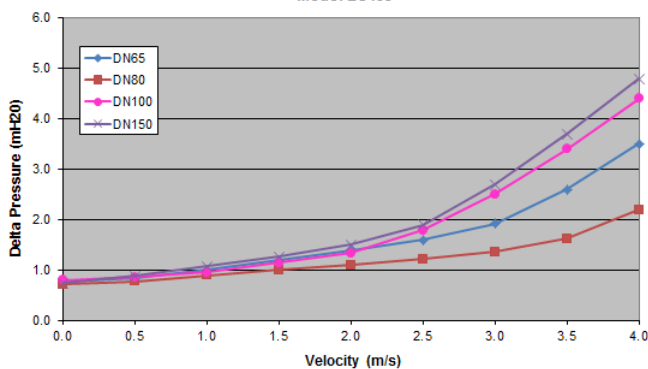
Double Check Valves are suitable for backflow protection of Fluid Category 3 risks as defined in the latest Water Regulations – July 1999.

Double 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.



ØA	B	ØC	Kg
65	482	185	25
80	522	200	31
100	602	222	43
150	802	285	86
200	1002	340	132
250	1202	400	190

Head Loss / Flow Chart
Model EC453



Notes

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

Codes and Descriptions

Size	Code	Description
DN65-150	ECsizeP453	EC453 Double Check Valve PN16
DN200-250	ECsizeP453	EC453 Double Check Valve PN10



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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