

# Verifiable Single Check Valve

## Model EA453 – Flanged - Datasheet

### Description

The Socla EA453 Verifiable Single Check Valve is approved for backflow protection. The valve is servicable allowing the cartridge to be changed in-situ via the inspection cover on the top of the valve. The ductile iron body is epoxy coated and suitable for wholesome water.

To comply with WRAS regulations and fluid category 2 backflow protection the valve must be installed in the horizontal.

### Pipe Connections

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



Model EA100P453

### 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 100° 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

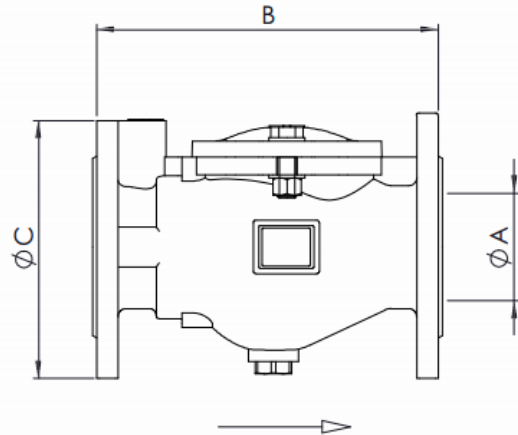
Backflow prevention for fluids in categories 1 – 2 (refer to Schedule 1 of Water Regulations July 1999). Fluid Category 2 includes -

- Fire sprinkler systems without additives
- Hot water
- Water cooled air conditioning without additives
- Branch to steel pipe
- Domestic softening plant (common salt regeneration)
- Whole site protection as specified by water company.

### Water Regulations

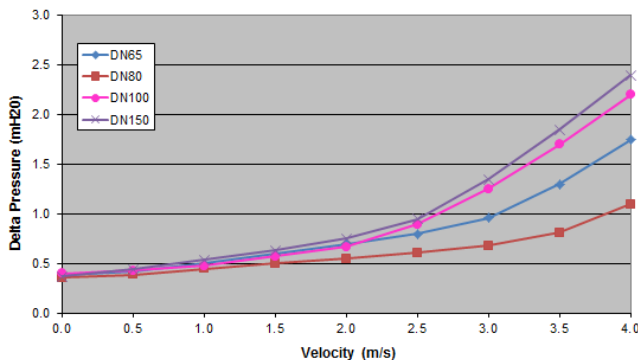
Single Check Valves are suitable for backflow protection of Fluid Category 2 risks as defined in the latest Water Regulations – July 1999.

Single 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	240	185	11.45
80	260	200	14.36
100	300	222	20.2
150	400	285	42
200	500	340	65
250	600	400	94

Head Loss / Flow Chart  
Model EA453



### Codes and Descriptions

Size	Code	Description
DN65-150	EAsizeP453	EA453 Single Check Valve PN16
DN200-250	EAsizeP453	EA453 Single Check Valve PN10

### 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.



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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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