

Verifiable Single Check Valve

Model EA453 – Flanged - Datasheet

Description

The Socla EA453 Verifiable Single Check Valve is approved for backflow protection. The valve is serviceable 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.

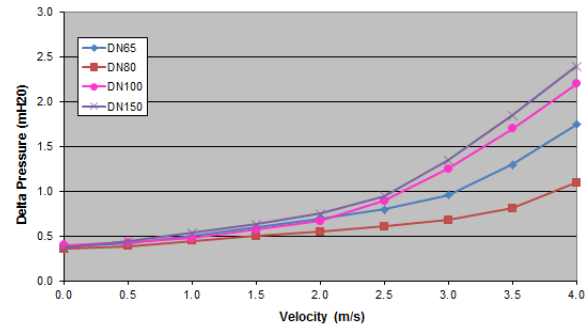
To comply with WRAS regulations and fluid category 2 backflow protection the **VALVE MUST BE INSTALLED HORIZONTALLY**.

Pipe connections (Flanged)			
PN10 (DN40 / DN50)	Flange Diameter	mm	150 (for DN40) / 165 (for DN50)
	PCD	mm	110 (for DN40) / 125 (for DN50)
	No. of bolt holes	#	4
	Diameter of bolts		M16
PN10 (DN65)	Flange Diameter	mm	185
	PCD	mm	145
	No. of bolt holes	#	4
	Diameter of bolts		M18
PN10 (DN80)	Flange Diameter	mm	200
	PCD	mm	160
	No. of bolt holes	#	8
	Diameter of bolts		M16
PN10 (DN100)	Flange Diameter	mm	220
	PCD	mm	180
	No. of bolt holes	#	8
	Diameter of bolts		M16
PN10 (DN150)	Flange Diameter	mm	285
	PCD	mm	240
	No. of bolt holes	#	8
	Diameter of bolts		M20
PN10 (DN200)	Flange Diameter	mm	340
	PCD	mm	295
	No. of bolt holes	#	8
	Diameter of bolts		M20
PN10 (DN250)	Flange Diameter	mm	395
	PCD	mm	350
	No. of bolt holes	#	12
	Diameter of bolts		M20
Specification			
Working Pressure	bar	16 (up to and inc. DN150) 10 (DN200 and above)	
Opening Pressure	bar	0.1	
Temperature	°C	-10 (min.) to 100 (max.)	
Materials			
Body		Ductile iron - epoxy coated (blue)	
Springs		Stainless Steel 316	
Closing System		DZR Brass	
Elastomers		EPDM	
Fasteners		Stainless Steel	
Water Reg. Approval Status		2004711	

Applications

Backflow prevention for fluids in categories 1 – 2 (refer to Schedule 1 of Water Regulations July 1999). Fluid Category 2 includes systems like fire sprinklers (no additives), hot water, water cooled air conditioning (no additives), branch to steel pipes, domestic softeners (salt regen), and whole site protection as specified by the water company.

Head Loss / Flow Chart
Model EA453



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.

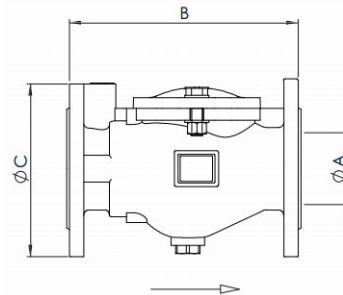


Model EA100P453



Water Regulations

Single Check Valves provide backflow protection for Fluid Category 2 risks under the July 1999 Water Regulations. They must not be buried but can be installed in below-ground chambers. While "Point of Use" protection is standard, whole site or zone protection is also acceptable (**check with your local water supplier**).



ØA (DN)	B (mm)	ØC (mm)	Kg
40/50	200	165	7.65
60/65	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

Codes and Descriptions

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



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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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