

Single Check and Single Detector Check

Scope of Use / Specification Sheet

The Single Check and Single Detector Check Valve Assembly backflow preventer protects against backflow by either back-pressure or back-siphonage from a cross-connection between potable water systems and substances in 'low hazard' conditions in fire sprinkler systems.



SDCT100-20WM

Product List

Model	Size	Order Code
Flanged	100mm	SCT100
	150mm	SCT150
	100mm	SDCT100*
	150mm	SDCT150*
Flanged with 20mm Bypass Meter	100mm	SDCT100-20WM
	150mm	SDCT150-20WM
Flanged with 25mm Bypass Meter	100mm	SDCT100-25WM
	150mm	SDCT150-25WM
Flanged with 25mm Bypass Spacer	100mm	SDCT100-25S
	150mm	SDCT150-25S
Metered Bypass Kit	20mm	SDKIT20-100
	20mm	SDKIT20-150
	25mm	SDKIT25
Bypass Kit with Spacer	25mm	SDKIT25-SPACER

*with optional 20mm or 25mm Bypass Kit

Note: 200mm Devices available on request.

Features and Benefits

- Device has top access entry for servicing
- End connections are Table E Flanged
- Flange design for fast and easy installation
- Each check valve seat constructed from Noryl™ or bronze, and is replaceable
- Check valve held in place by a stainless steel clip
- Backflow preventer suitable for supply pressure up to 1200kPa and water temperatures up to 60°C

Materials

Valve Body	Ductile Iron
Access Cover	Ductile Iron
Polymers	Noryl™, NSF Listed
Elastomers	Silicone EPDM (FDA approved)
Springs	Stainless Steel
Coating	FDA approved fusion epoxy

Description

The device is constructed from ductile iron (65-45-12). It consists of one (1) spring-loaded, center stem, guided check valve. The device has a cast ductile iron body, with a single access cover utilizing a grooved pipe coupling. The assembly has two (2) BSP tapped holes located upstream and downstream of the check valve for installation of the by-pass assembly (including a single check valve, shut-off valve and water meter) for detecting low flow.

Installation

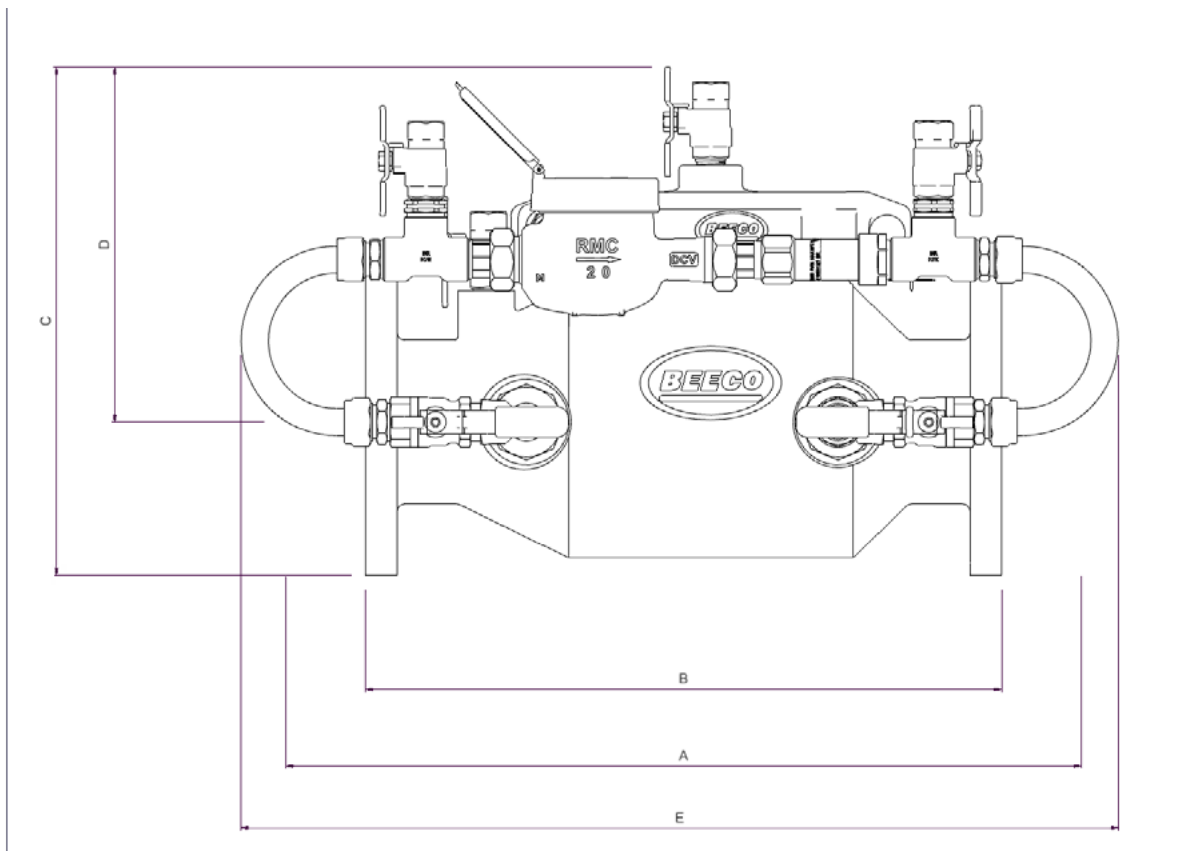
Installation is subject to the requirements of the applicable regulatory authority, the National Construction Code Volume Three – Plumbing Code of Australia, associated reference standards as applicable at the time and AS/NZS 3500.1.

Single Check and Single Detector Check

Dimensions

Size	Order Code	A Length with Butterfly valve	B Valve Length	C	D	E Length with Bypass	Width	Weight	Weight (Bypass)
100	SCT100	550	446	357	268	n/a	290	38.0	
150	SCT150	644	532	444	304	n/a	290	76.0	
100	SDCT100	550	446	357	268	n/a	420	38.0	3.4
150	SDCT150	644	532	444	304	n/a	420	76.0	4.0
100	SDCT100-20WM	550	446	357	268	614	314	41.4	3.4
150	SDCT150-20WM	644	532	444	304	695	380	79.5	3.5
100	SDCT100-25WM	550	446	357	268	778	328	43.4	5.4
150	SDCT150-25WM	644	532	444	304	826	394	81.4	5.4
100	SDCT100-25S	550	446	357	268	778	328	41.6	3.6
150	SDCT150-25S	644	532	444	304	826	394	79.6	3.6

Note: All measurements in mm unless otherwise stated. All weights are in kg unless otherwise stated.



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Technical Specifications

Maximum working pressure	1200kPa
Maximum working temperature	60°C
Hydrostatic test pressure	2400kPa
End connections	Table E AS 2129
Flanged	Table E AS 2129

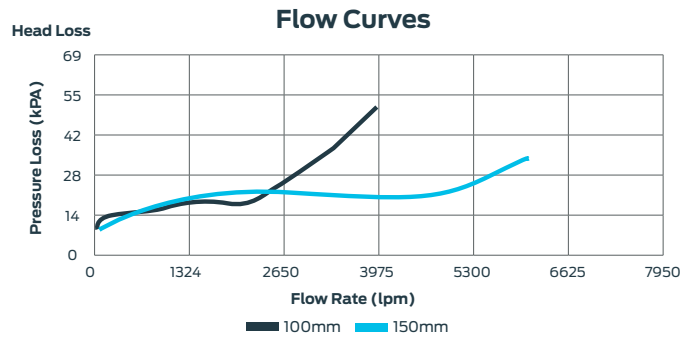
Warranty

Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture within the warranty period. You may contact RWC at the phone number, address or e-mail shown below for further information or to make a claim.

Visit www.rmc.com.au/warranty to view the warranty statement in full and for further important information.

Flow Characteristics

100mm – 150mm MODEL SCT / SDCT



Standards and Approvals



AS/NZS 2845.1:2010
WM74542