

Double Check Detector Assemblies -Series 757ISR

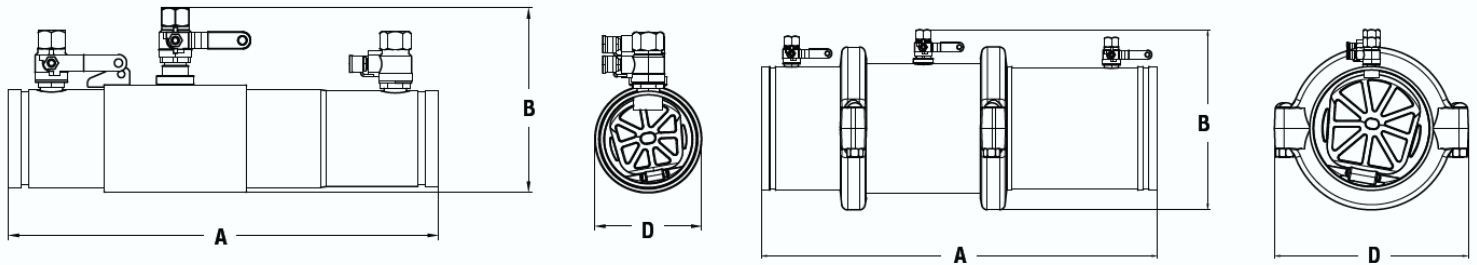
General Description

Series 757ISR Double Check Detector Assemblies are used to prevent backflow of non-health hazard pollutants that are objectionable but not toxic, from entering the potable water supply system. Series 757ISR may be installed under continuous pressure service and may be subjected to backpressure and backsiphonage. Series 757ISR consists of two independently operating check valves, and three test cocks.

Part List

- ①Housing & Sleeve: 304 (Sch 40) Stainless Steel
- ②Elastomers: EPDM, Silicone and Buna-N
- ③Tri-link Checks: Noryl[®], Stainless Steel
- ④Check Discs: Reversible Silicone or EPDM
- ⑤Test Cocks: Bronze Body
- ⑥Pins & Fasteners: 300 Series Stainless Steel
- ⑦Springs: Stainless Steel

Dimensions - Weight



Size		Dimensions						Weight	
		A		B		C		Not including Bypass	
in	mm	in	mm	in	mm	in	mm	lbs.	Kgs.
4	100	20	508	7	178	5½	140	25	11.1
6	150	27	686	10	254	7½	191	59	26.6



Technical Data

- Temperature Range: 0.5°C - 60°C
- Maximum Working Pressure: 175psi (12.1 bar)

Specifications

The Double Check Detector Assembly shall consist of two independent tri-link check modules within a single housing, sleeve access port, three test cocks. Tri-link checks shall be removable and serviceable, without the use of special tools. The housing shall be constructed of 304 Schedule 40 stainless steel pipe with groove end connections. Tri-link checks shall have reversible elastomer discs and in operation shall produce drip tight closure against reverse flow caused by backpressure or backsiphonage. Assembly shall be a Watts Series 757ISR.

Approvals



Capacity

Flow capacity chart identifies valve performance based upon rated water velocity up to 7.6M/S

- Service Flow is typically determined by a rated velocity of 2.3M/S based upon schedule 40 pipe.
- Rated Flow identifies maximum continuous duty performance determined by AWWA.
- UL Flow Rate is 150% of Rated Flow and is not recommended for continuous duty.
- AWWA Manual M22 [Appendix C] recommends that the maximum water velocity in services be not more than 3M/S.

