

Series 858

Double Check Detector Assemblies

Sizes: 2½" – 3" (65 – 80mm)

The FEBCO Series 858 Double Check Detector Assemblies are designed exclusively for use in accordance with water utility authority on non-health hazard containment requirements. It is mandatory to prevent the reverse flow of fire protection system substances, i.e., glycerin wetting agents, stagnant water and water of non-potable quality from being pumped or siphoned into the potable water line.

Benefits: Detects leaks...with emphasis on the cost of unaccountable water; incorporates a meter which allows the water utility to:

- Detect underground leaks that historically create great annual cost due to waste.
- Provide a detection point for unauthorized use. It can help locate illegal taps.

Modular check design concept facilitates maintenance and assembly access. All sizes are standardly equipped with resilient seated OSY shutoff valves and 5/8" x 3/4" (16 x 19mm) meter.

Features

- Fused epoxy coated cast iron unibody
- Replaceable bronze seats
- Maximum flow at low pressure drop
- Compact for ease of installation
- Design simplicity for easy maintenance
- No special tools required for servicing
- Bronze body ball valve test cocks
- Modular spring loaded checks
- Furnished with bronze 5/8" x 3/4" (16 x 19mm) meter

Models

Suffix:

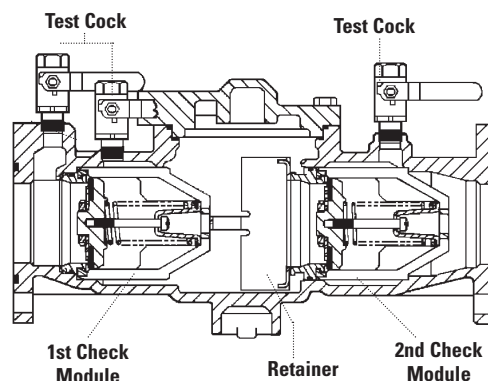
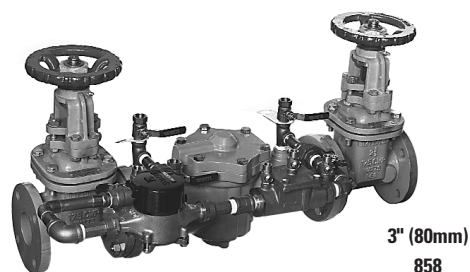
CFM – cubic feet per minute meter

GPM – gallons per minute meter

LF – without shutoff valves

OSY – UL/FM outside stem and yoke resilient seated gate valves

NRS – non-rising stem resilient seated gate valves



Specifications

A Double Check Detector Assembly shall be installed on fire protection systems when connected to a potable water supply. Degree of hazard present is determined by the local authority having jurisdiction. The back-flow preventer shall be a complete assembly including UL listed resilient seated OSY shutoff valves and four test cocks. The test cocks located on the backflow preventer shall be mounted at the top of the valve to reduce clearance problems and to assist in the evacuation of air from the assembly. The assembly shall consist of two independently operating modular poppet-type check valves. The check valves shall utilize captured springs and shall have replaceable seats. The checks shall be double-guided, both along the outside edge of the check module and through the center stem assembly. The seats shall be replaceable without the use of special tools. Seat retention shall be done by the use of an interlocking bayonet-style cage and the use of threaded seats or seat screws is prohibited. Access to the internal check assemblies shall be via a single top entry cover. The cover shall be securely held in place by stainless steel bolts. Where applicable the unit shall be FM approved with FM approved OSY resilient seated shutoff valves. The assembly shall include an auxiliary bypass line consisting of an approved backflow preventer and water meter.

The assembly shall be listed or approved under the requirements of ASSE Std. 1048, AWWA Std. C510-92 and CSA B64.5. Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California. The assembly shall be a FEBCO Series 858.

**IMPORTANT: INQUIRE WITH GOVERNING AUTHORITIES
FOR LOCAL INSTALLATION REQUIREMENTS**

Job Name _____

Job Location _____

Engineer _____

Approval _____

Contractor _____

Approval _____

Contractor's P.O. No. _____

Representative _____

FEBCO product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact FEBCO Technical Service. FEBCO reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on FEBCO products previously or subsequently sold.

Materials

Body: Epoxy coated cast iron
 Seats: Bronze
 Discs: Silicone
 Springs: Stainless steel
 Meter: Bronze 5/8" x 3/4" (16 x 19mm)

Pressure – Temperature

Temperature Range: 33°F – 110°F (0.5°C – 43°C) continuous,
 140°F (60°C) intermittent.
 Maximum Working Pressure: 175psi (12.1 bar)

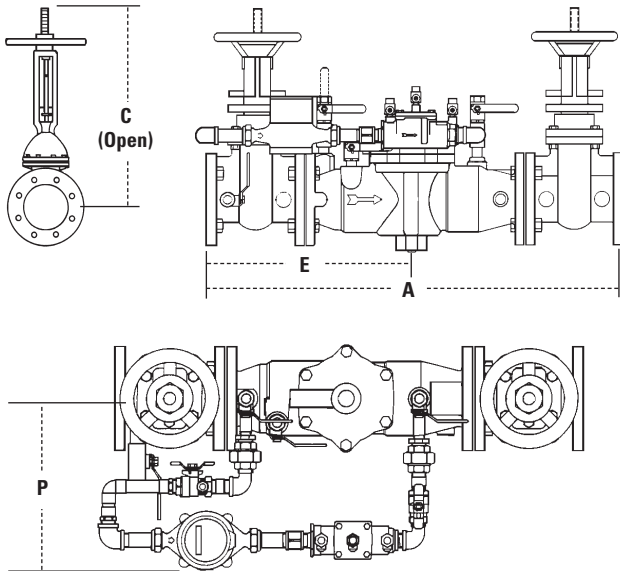
Approvals



Approved by the Foundation for Cross-Connection Control and Hydraulic Research at the University of Southern California.

Note: 2½" (65mm) 858 horizontal or vertical upward flow position
 3" (80mm) 858 horizontal only

Dimensions – Weights

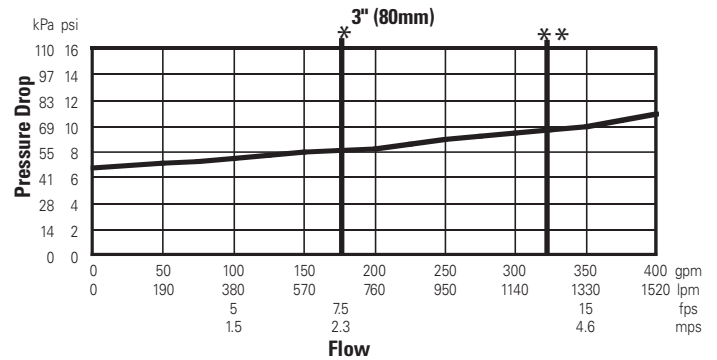
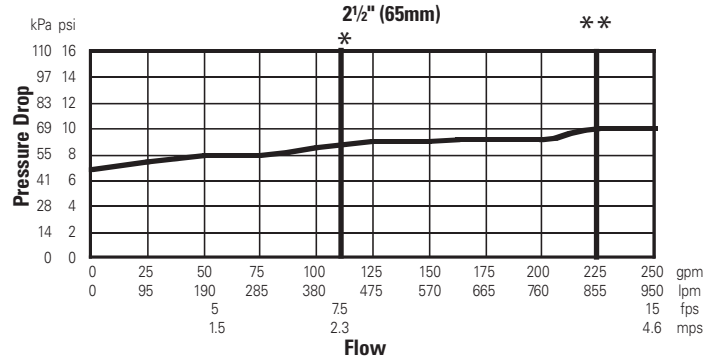


Size: 2½" - 3" (65 - 80mm)

SIZE (DN)		DIMENSIONS				WEIGHT					
		A		C		E		P			
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm		
2½	65	33¼	845	16⅞	416	16⅞	416	12⅞	313	164	74
3	80	34¼	870	18⅞	479	16⅞	422	12⅞	313	196	89

Capacity

*Typical maximum system flow rate (7.5 feet/sec.). **UL rated flow



A Watts Water Technologies Company



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