

**SPECIFICATION SHEET** **FEBCO®**

# Series 510

## Dual Check Backflow Preventers

Sizes 1/2" – 1" (15-25mm)

Series 510 Dual Check Backflow Preventers provide cost-effective backflow protection of the public water supply when used according to the local or state plumbing code requirements.

Available with an extensive combination of inlet/outlet sizes, types of thread, and end connections - including retrofit compression fittings and hose connections - the Series 510 can be installed in a variety of piping configurations, and in conjunction with a wide range of meter horns, copper setters, and meter boxes.

The straight line, poppet-type construction of the Series 510 minimizes pressure drop and provides smooth flow characteristics. It can be installed horizontally or vertically. It is not adversely affected by normal line pressure surges, will not cause water hammer, and operates without chatter or vibration.

**Features:**

- Low pressure drop
- Easy maintenance and service
- Wide selection of types, sizes and connections
- Chloramine resistance - for long life under the harshest water conditions
- Complete modularity - for easy maintenance
- Limit stops - to prevent damage from thermal expansion
- Center and edge guides - to ensure repeatable seating and minimize localized wear
- No exposed screws or threads - to eliminate corrosion potential and improve serviceability
- ASSE 1024 Certified

**Materials:**

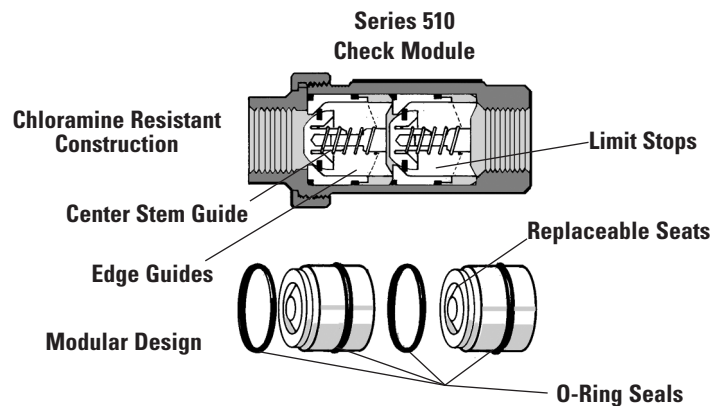
Body:	Bronze
Check Modules:	Acetyl resin and PPO
Discs:	Silicone
Seals:	Buna-N
Springs:	Stainless steel

**Pressure – Temperature**

Temperature Range: 33°F - 180°F, (0.5°C - 82.2°C)  
 Maximum Working Pressure: 150psi (10 bar)



510



**Specifications**

The dual check backflow preventer shall meet the domestic requirements of ANSI/ASSE Standard 1024 and bear the seal of approval. It shall be bronze-bodied and include not less than one union, with the union nut drilled to accept a tamper-proofing lock wire. A brass identification tag indicating direction of flow shall be securely attached to the valve body by corrosion-resistant mechanical fasteners. The dual check shall be a FEBCO Series 510.

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

Job Name \_\_\_\_\_

Job Location \_\_\_\_\_

Engineer \_\_\_\_\_

Approval \_\_\_\_\_

Contractor \_\_\_\_\_

Approval \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Representative \_\_\_\_\_

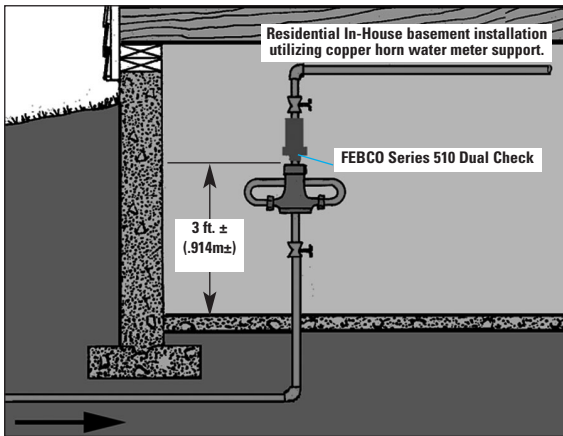
FEBCO product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact FEBCO Technical Service. FEBCO reserves the right to change or modify product design, construction, specifications, or materials without prior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

## Approvals

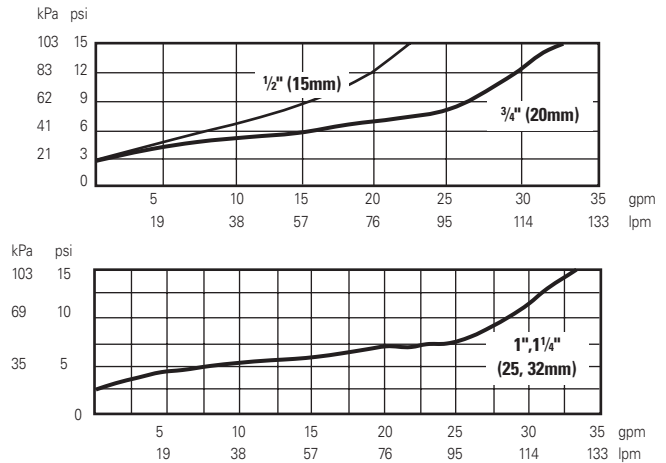


1024

## Typical Installation



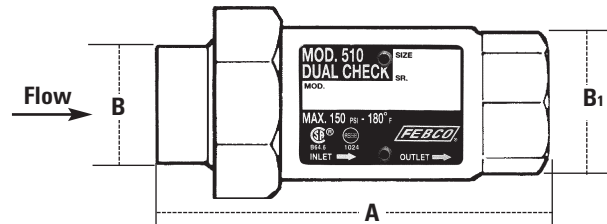
## Capacity



## Dimensions – Weight

Size: 4 3/8" (110mm)

A		B		B1		WEIGHT	
in.	mm	in.	mm	in.	mm	lbs.	kgs.
4 3/8	110	2 5/16	58	1 3/4	44	1.75	.79



## How To Order

FEBCO Dual Check Backflow Preventers can be specified in many different combinations of connection types, sizes, and union options. See ordering example below.

Specify Series No.	Specify "U" if union inlet is desired	Specify inlet connection code	Specify "U" if union outlet is desired	Specify outlet connection code	Specify inlet connection size	Specify outlet connection size
510	U	2	U	2	3/4" (20mm)	X 3/4" (20mm)

When ordering Series 510 Valves with Meter Thread Connections, be sure to order connection size one size larger than meter thread. Examples:

METER SIZE	ORDER
1/2" (15mm) and 5/8" (16mm)	3/4" (20mm)
5/8" (16mm) and 3/4" (20mm)	1" (25mm)
1" (25mm)	1 1/4" (32mm)

## Models

CONNECTION TYPE	CONNECTION CODE	SIZES AVAILABLE	
		inches	mm
National Pipe Thread Female	2	1/2, 3/4, 1	15, 20, 25
National Pipe Thread Male	3	1/2, 3/4, 1, 1 1/4	15, 20, 25, 32
Meter Thread Female*	4	3/4, 1, 1 1/4	20, 25, 32
Meter Thread Male*	5	3/4, 1, 1 1/4	20, 25, 32
Pack Joint Female	6	3/4, 1	20, 25
Pack Joint Male	7	3/4, 1	20, 25
Female Solder	8	3/4, 1	20, 25
Male Solder	9	3/4, 1	20, 25
Female Meter Thread (Swivel)	10	3/4, 1, 1 1/4	20, 25, 32
Male Hose Thread	11	3/4	20
Female Hose Thread	12	3/4	20
Male Meter Yoke Thread	13	3/4	20
PEX	15	1/2, 3/4, 1	15, 20, 25
CPVC	16	1/2, 3/4, 1	15, 20, 25

Union (U) Connections available on all inlet/outlet types and sizes.\*



A Watts Water Technologies Company



ISO 9001-2000 CERTIFIED

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