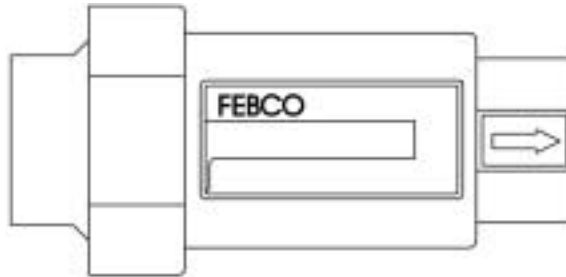


# SPECIFICATION SHEET MODEL 810 (3/4" & 1")



## Dual Check Backflow Preventer



810DA11 3/4" Female Pipe Thread  
by Female Pipe Thread, Union Inlet.

### Additional Model 810 Variations

Part #	Size	DESCRIPTION
810DA11	3/4"	Dual Check, FPT x FPT, Union Inlet
810DB21	3/4"	Dual Check, MPT x FPT, Union Outlet
810EB11	1"	Dual Check, FPT x FPT, Union Outlet
810EB21	1"	Dual Check, MPT x FPT, Union Outlet

FPT = Female Iron Pipe Thread  
MPT = Male Iron Pipe Thread

### Features

- All bronze body.
- Two inline poppet type check cartridges.
- Plastic acetal internal parts for exceptional corrosion resistance.
- Union connection for easy installation and testing.
- Pressure rated to 175 PSI and will withstand water temperatures from 32°F to 180°F.
- Designed to have lowest head loss in the industry.

### Description

The Dual Check Backflow Preventer was designed to be installed down stream from the house water meter to reduce the potential backflow of pollutants from the house or yard into water mains. At rated flow, both checks are fully open. As the flow rate decreases the check cartridges begin to close. At zero flow the checks close completely. Each check will hold 1 PSI minimum in direction of flow. Febco Model 810 is designed to meet the specifications of ASSE Standard 1024 for Dual Check Backflow Preventers.

### Materials

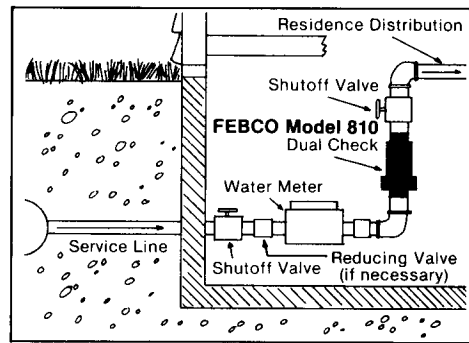
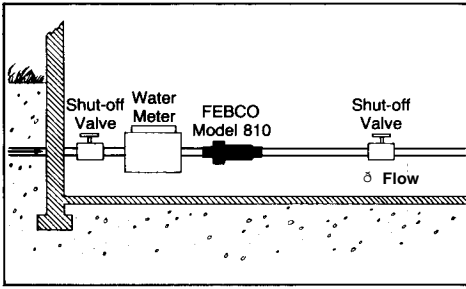
Bronze bodies are standard on Model 810 Dual Check, with two durable acetal inline check cartridges and resilient seat discs. The unit has one union with "O" ring seals.

### Typical Specifications

A Dual Check Valve Assembly Febco Model 810 shall be installed on the residential side of the water meter to prevent the backflow of polluted water into the water mains. The Dual Check Valve Assembly consists of two inline spring loaded poppet check cartridges. The head loss across the assembly shall be less than 5.5 PSI at rated flow. The Dual Check Model 810 shall be rated to 175 PSI working pressure and shall withstand water temperatures of 32°F to 180°F. The Dual Check is designed for continuous operation and shall conform to ASSE Standard 1024. The Dual Check shall be FEBCO Model 810 or prior approved equal.

### Typical Applications

Domestic water service.



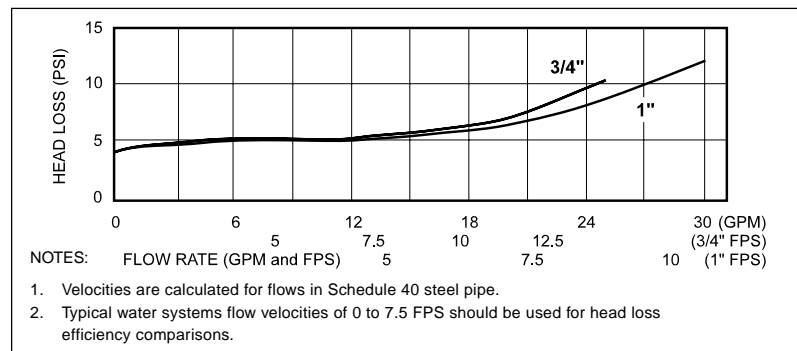
Thermal water expansion and/or water hammer down stream of the Backflow Preventer can cause excessive pressure increases. Excessive pressure situations should be eliminated to avoid possible damage to the system and assembly. The assembly should be protected from freezing.

ASSE Listed 1024  
CAN/CSA (B64.6) Certified

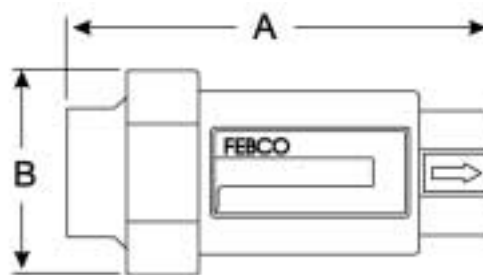
### Characteristics

<b>Maximum working pressure</b>	150 PSI (1200 KPa)
<b>Hydrostatic test pressure</b>	350 PSI (2400 KPa)
<b>Temperature Range</b>	32°F to 180°F
<b>Fluid</b>	Water
<b>End detail</b>	3/4" and 1" Threaded NPT
<b>Valve body</b>	Forged Brass

### Model 810 Flow Curves



### Dimensions and Weight



Size	A in. (mm)	B in. (mm)	Wt. lbs. (kg)
3/4"	4 1/8 (104.78)	2 3/8 (60.32)	1.0 (.4535)
1"	4 1/4 (107.95)	2 3/8 (60.32)	1.0 (.4535)

Dimensions shown are nominal. Allowances must be made for normal manufacturing tolerances.

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