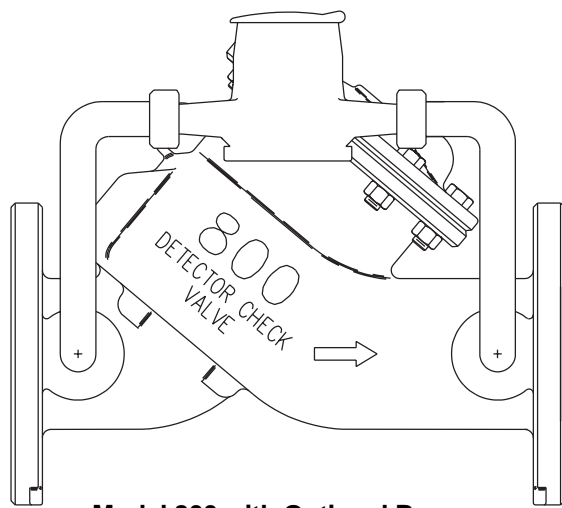


# SPECIFICATION SHEET MODEL 800 (2" through 10")



## Detector Check for Automatic Fire Sprinkler Systems



Model 800 with Optional Bypass



### Features

- UL listed and FM approved for horizontal or vertical installation.
- Economical new design.
- Patented spring-loaded swing check for reliability and minimum head loss.
- 250 PSI Working Pressure for superior strength.
- DuraCast ductile iron body for superior strength and lighter weight.
- Fully rubber encapsulated ductile iron disc for strength.
- Fusion epoxy coated, inside and out, for corrosion protection.
- Simple service procedures.
- Cast lifting ring for ease of installation.

### Operation

In a non-flow condition, the mainline check and bypass check are closed and the meter is idle. All flows up to approximately 10 GPM will flow through the standard 3/4" bypass. This operation at low flow rates is accomplished by designing the differential pressure drop across the bypass line to be slightly less than the mainline check valve. Therefore, the mainline check valve remains closed so that low flows through the fireline system are registered by the bypass meter.

Flows in excess of approximately 10 GPM will open the mainline check valve causing flow to occur through the mainline assembly and the bypass line.

### Specifications

Detector check shall consist of a single spring-loaded swing check in parallel with a bypass meter assembly. Seat rings shall be bronze, bolted to the valve bodies with an O-ring seal.

The main check assembly shall be hinge guided. Head loss through the assembly shall not exceed 3 PSI at velocities from zero up to and including 15 FPS.

Mainline check body and cover shall be manufactured of Ductile Iron ASTM A536 Grade 6545-12. Ductile iron bodies shall be flanged ANSI B16.42, class 150 and fusion epoxy coated 8 mils minimum to meet A.W.W.A. C550-90. Detector check shall be rated at 250 PSI working pressure and be UL listed and FM approved for both horizontal and vertical installation. Disc shall be rubber encapsulated ductile iron.

Detector check shall meet or exceed requirements of Underwriters Laboratory and Factory Mutual Research Corporation. Detector check shall be FEBCO Model 800 or prior approved equal.

### Typical Application

The patented Model 800 is used in the protection of potable water supplies from potential contamination of automatic fire sprinkler systems and/or unauthorized water usage. This requires installation of the proper valving commensurate with the degree of contamination and/or the ability to measure water loss. The Model 800 Detector check is not a backflow prevention assembly and should not be used as such.

## Characteristics

### Physical Properties:

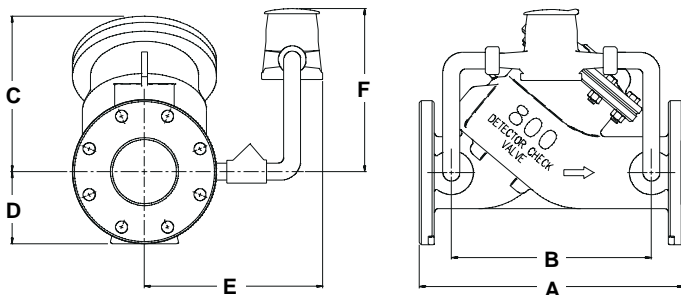
Size of mainline	2", 3", 4", 6", 8", and 10"
Size of standard bypass	3/4"
Maximum working pressure	250 PSI
Hydrostatic test pressure	1000 PSI
Temperature range	32°F to 110°F (0°C to 60°C)
End Detail	Flanged ANSI B16.42, Class 150 (except 2") 2" model is drilled to accept standard 2-bolt 2" meter flange

### Materials:

Main valve body	Ductile iron Grade 65-45-12 Fusion Epoxy coated Internal and External AWWA C550-90
Trim	Bronze
Elastomers	Nitrile
Spring	Stainless Steel

### Bypass:

Bypass meter	Totalizing type GPM Size: 5/8" x 3/4"
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DIMENSIONS							
Size	A	B	C	D	E	F	Wt. (lbs)
2"	Pending						
3"							
4"	16 1/2"	12 1/2"	9 3/4"	4 1/2"	10 1/2"	11"	76
6"	22 1/2"	17"	13 5/8"	5 1/2"	11 5/8"	11"	157
8"	26 1/2"	21"	16 3/4"	6 3/4"	12 5/8"	11"	215
10"	36"	28"	20"	8"	13 3/4"	11"	370

BYPASS SIZES				
Standard		Optional		
Size	3/4"	1"	1 1/2"	2"
2"	✓	✓		
3"	✓	✓		
4"	✓	✓	✓	
6"	✓	✓	✓	
8"	✓	✓	✓	✓
10"	✓	✓	✓	✓

## Agency Compliance

### 4", 6", 8", and 10"

UL Listed and FM Approved

### 2" and 3"

Approvals Pending

## Flow Curves

