Model DC

Weighted Lever Detector Check Valves
Sizes #

NOTICE OF DISCONTINUATION, Effective October 2011

Mueller Systems has discontinued new sales of our DC detector check line in an effort to introduce more cost effective and versatile check valves.

If you need an alternative detector check to our DC product line, please take a look at the Hersey EDCIV detector check line.

Replacement component parts for the DC line will continue to be available for the foreseeable future. Check the exploded diagram and table in this data sheet for highlighted replacement components to keep your DC performing to new detector check standards.

Thank you for using Hersey products. We appreciate your continued business.

Model DC

Weighted Lever Detector Check Valves
Sizes 2"

Features

APPLICATIONS: For installation in commercial fire lines or any water supply system to detect leakage or unauthorized use. Designed for horizontal installation.

CONFORMANCE TO STANDARDS: UL, ULC listed; FM approved (2").

DESCRIPTION: HERSEY Model DC Detector Check Valves consist of a main check valve with a reinforced elastomeric seat, operated by a weighted lever (available with optional trim kit and bypass meter). The Model DC prevents water from re-entering the potable water system, while detecting leaks in the fire sprinkler system or unauthorized use of sprinkler system water.

The optional bypass is comprised of a shutoff valve, swing check, and a Hersey Model MVR magnetic turbine meter, or a Hersey Model 400/500 IIS positive displacement meter.

Solid state remote reading systems are available for all meters offered with the Model DC (see electronics section).

OPERATION: With the mainline valve held closed by the weighted lever, any low flow will be directed through the bypass and measured by the bypass meter. When the pressure loss through the bypass is approximately 4 PSI, the mainline valve opens automatically, allowing unrestricted flow.

The mainline valve and check on the bypass prevent loss of water from the system. Closing the inlet shutoff valve permits in-line servicing of the bypass meter while the mainline remains in service.

END CONNECTIONS: Flange x Flange.
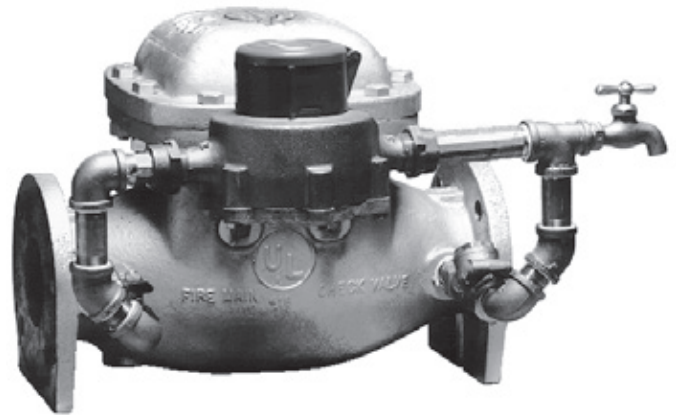

Shown with Optional Trim Kit and Bypass Meter

Materials and Specifications

|	
MODEL DESIGNATION	DC
SIZES	2"
MAXIMUM WORKING PRESSURE	175 PSI
HYDROSTATIC TEST PRESSURE	350 PSI
TEMPERATURE RANGE	33ºF to 100ºF
STANDARDS	UL, ULC listed; FM approved (2")
VALVE BODY	Bronze - 2"
CLAPPER SEAT	Reinforced elastomer on a bronze seat
OPTIONAL BYPASS METER CASE	Bronze
OPTIONAL BYPASS METER INTERIOR	Plastic (400IIS)
OPTIONAL BYPASS METER REGISTER	Sealed plastic

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Performance

HEAD LOSS – 2"
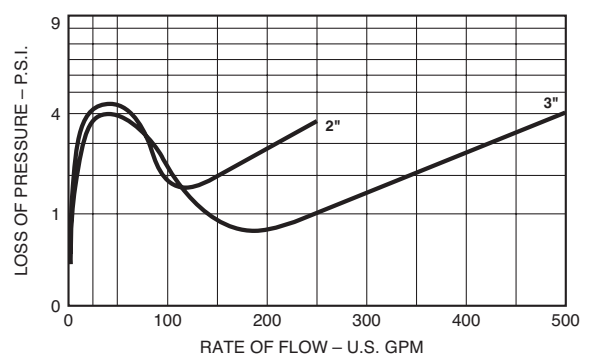
ACCURACY – 2"
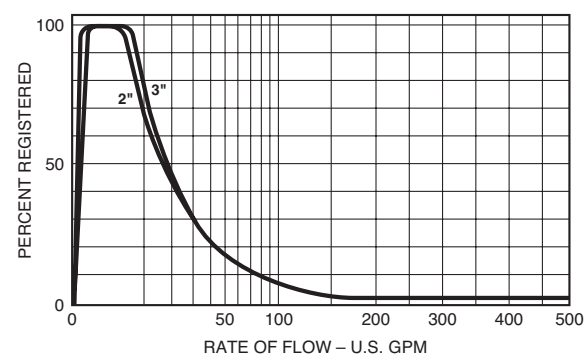
NOTE: Performance curves are typical only and NOT a guarantee of performance

Dimensions and Weights

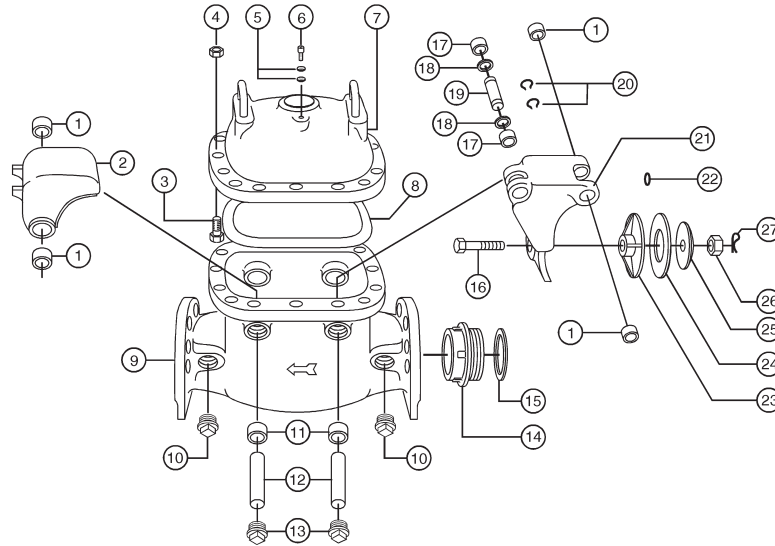| Size	2"
A	17"
B	15-1/2" *
C	2-1/4"
D	-
E	4-1/2"
F	-
G	4"
H	13-3/8"
Net weight less bypass	47
Net weight with bypass	58

2" Size
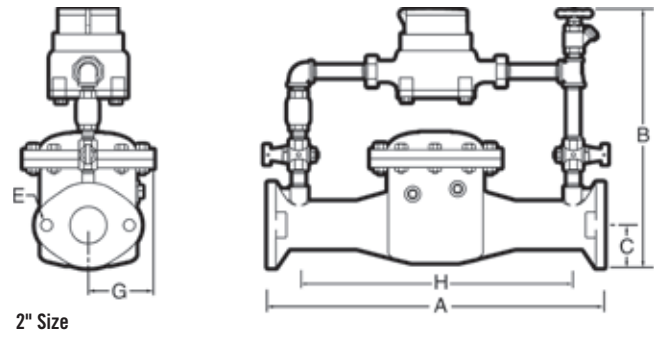
*Bypass dimensions and positioning can vary depending on size and type of trim kit.
NOTE: Weights are in pounds and are approximate.

Model DC

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Sizes 2"

Parts Less Bypass Meter

Ref. No.	Description	2" Model
1	Weight and Swing Arm Bushing	53825 (2)
2	Weight, full	53827
3	Hex Bolt	90220 (10)
4	Hex Nut	90122 (10)
5	Vent Screw Washer	59073 (2)
6	Vent Screw	59003
7	Cover*	N/A
8	Gasket	53906
9	Bottom Case	N/A
10	Plug	59007(2)
11	Bushing	53807 (4)
12	Pin	53879 (2)
13	Pin Plug	59005 (4)
14	Seat Unthreaded	N/A
15	Seat Gasket for Threaded Seat	N/A
16	Clapper Bolt	53878
17	Swing Arm Bushing	53837 (2)
18	Swing Arm Washer	53823 (2)
19	Swing Arm Roller Pin	53839
20	Pin Clips	53874 (2)
21	Swing Arm	53838
22	Clapper O-ring	53893
23	Clapper	53815
24	Clapper Rubber	53816
25	Clapper Disc	53817
26	Clapper Nut** Clapper Cotter Pin**	59145

**Replaced by nut with nylon insert.
NOTE: If more than one part is required per assembly, quantity is noted after part number (in parenthesis).