

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" and 3").

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.

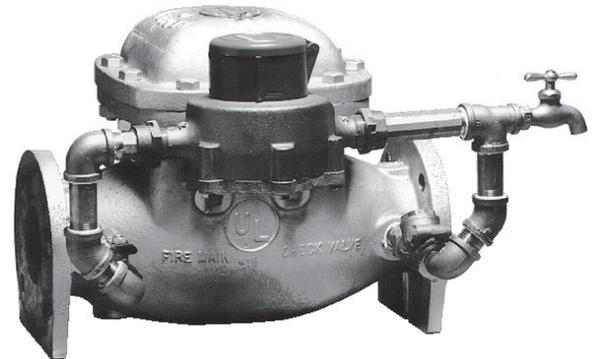
The optional bypass is comprised of a shutoff valve, swing check, and a Hersey Model MVR magnetic turbine meter, or a Hersey Model 400/500 IIS positive displacement meter.

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

Model DC

Materials and Specifications

- **MODEL DESIGNATION** DC
- **SIZES** 2", 3", 12"
- **MAXIMUM WORKING PRESSURE** 175 PSI
- **HYDROSTATIC TEST PRESSURE** 350 PSI
- **TEMPERATURE RANGE** 33F to 100F
- **STANDARDS** UL, ULC listed;
 FM approved (2" and 3")
- **VALVE BODY** Bronze - 2";
 Epoxy coated cast iron - 3" and 12"
- **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

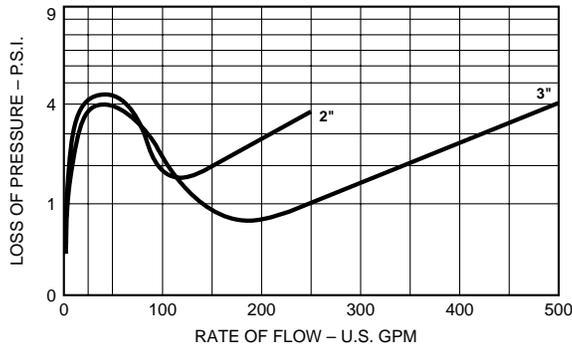
Model DC

Hersey® Meters

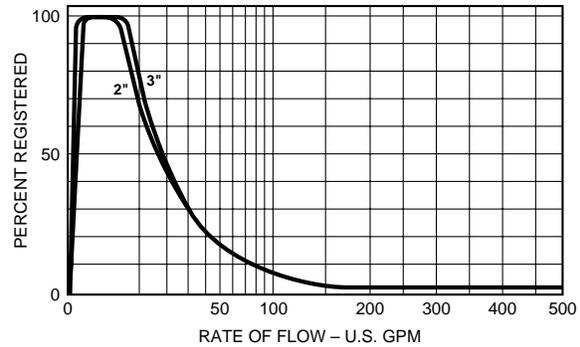
Detector Checks and Detector Check Valves
 Sizes 2", 3", 12"

Performance

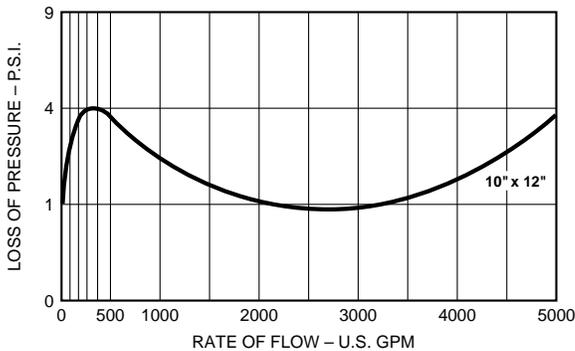
HEAD LOSS - 2" AND 3"



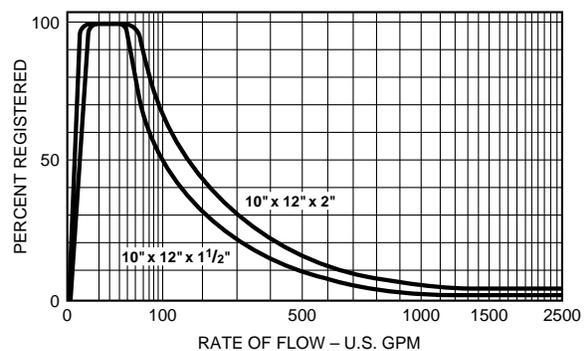
ACCURACY - 2" AND 3"



HEAD LOSS - 12"



ACCURACY - 12"

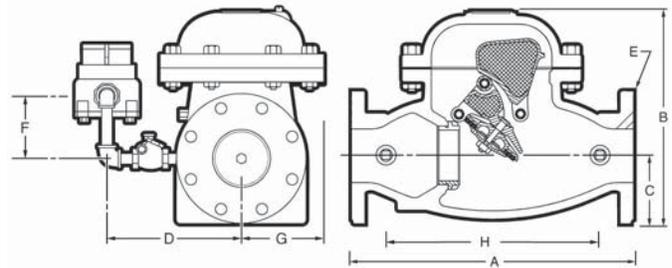


NOTE: Performance curves are typical only and NOT a guarantee of performance

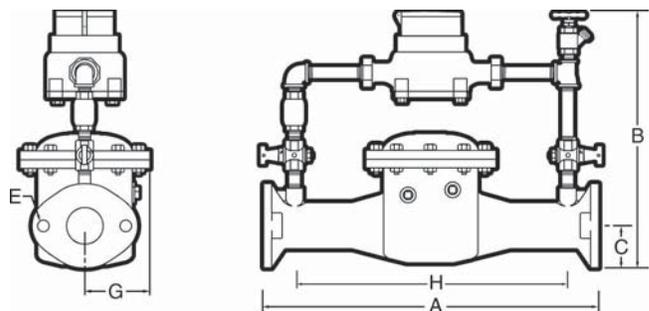
Dimensions and weights

Size	2"	3"	12"
A	17"	16-1/2"	36"
B	15-1/2" *	13-1/2"	37-1/2"
C	2-1/4"	4"	11-3/4"
D	-	10" *	15-1/2" *
E	4-1/2"	6"	14-1/4"
F	-	6" *	18" *
G	4"	5"	10-1/2"
H	13-3/8"	12-1/2"	18-1/2"
Net weight less bypass	47	110	1350
Net weight with bypass	58	120	1415

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



3" and 12" Sizes



2" Size