

## Features

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

**CONFORMANCE TO STANDARDS:** UL, ULC listed; FM approved.

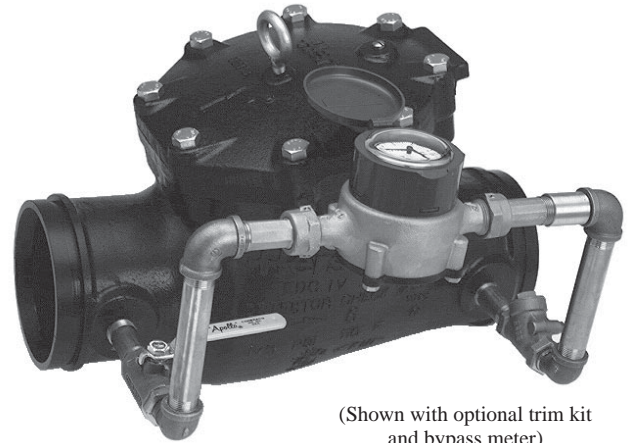
**DESCRIPTION:** HERSEY Model EDC IV Check Valves consist of a spring loaded main check valve (available with optional trim kit and bypass meter). The Model EDC IV prevents water from re-entering the potable water system, while detecting leaks in the fire sprinkler system or unauthorized use of sprinkler system water. All operating parts of the spring and clapper mechanism are attached to the cover for easy removal and maintenance. For safety, full spring tension is not achieved until the cover is bolted to the body. Spring mechanism provides for low headloss during fire conditions.

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 EDC IV (See Reading Systems Section).

**OPERATION:** With the mainline valve held closed by the spring, any low flow will be directed through the bypass and measured by the bypass meter. When the pressure loss through the bypass is approximately 2.0 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 in all sizes; Flange x Grooved and Grooved x Grooved in sizes 4", 6", 8"



(Shown with optional trim kit and bypass meter)

## Materials and Specifications

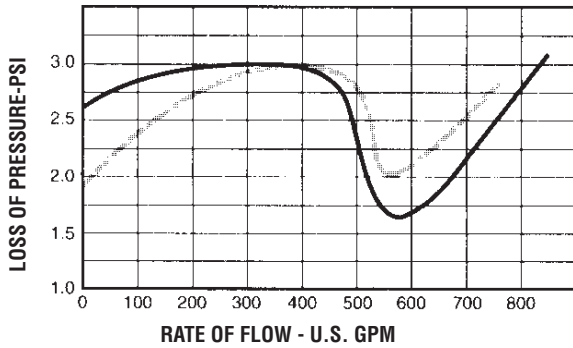
- **MODEL DESIGNATION** ..... EDC IV
- **SIZES** ..... 3", 4", 6", 8", 10"
- **MAXIMUM WORKING PRESSURE** ..... 175 PSIG
- **HYDROSTATIC TEST PRESSURE** ..... 350 PSIG
- **TEMPERATURE RANGE** ..... 33F to 110F
- **STANDARDS** ..... Underwriters Laboratories (UL) Listed; Underwriters Laboratories of Canada (ULC) Listed; Factory Mutual (FM) approved.
- **VALVE BODY** ..... Red enamel on cast iron or optional fusion bonded epoxy coating on cast iron.
- **CLAPPER SEAT** ..... Rubber clapper on a bronze seat
- **BYPASS TAPPING:**
  - 4" - 8" ..... 3/4" Tap
  - 10" ..... 1-1/2" Tap

Detector Checks and Detector Check Valves  
 Sizes 4", 6", 8" and 10"

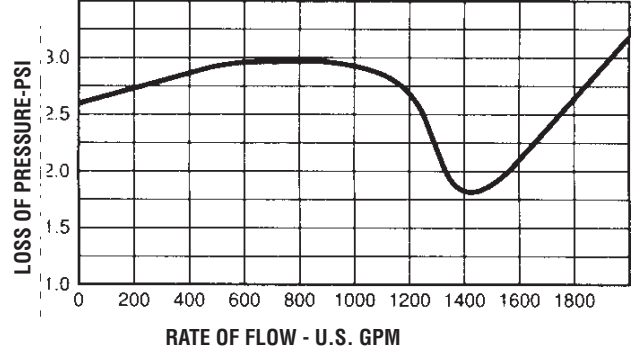
Model EDC IV

## Performance

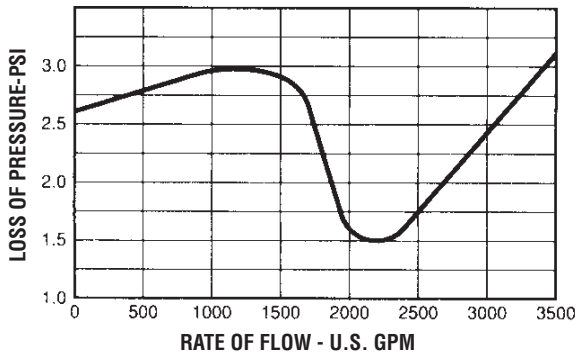
Head loss - 3" & 4"



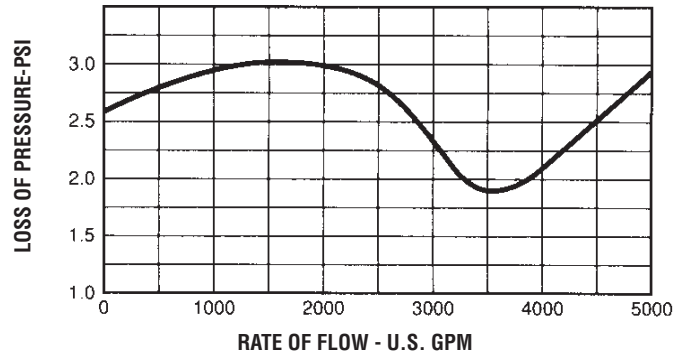
Head loss - 6"



Head loss - 8"



Head loss - 10"



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

## Dimensions

CF and DF refer to Flanged; CG and DG refer to Grooved)

Valve Size	3"	4"	6"	8"	10"
<b>Flanged Ends</b>					
<b>Dimensions</b>					
A	15.00	15.00	21.00	25.00	28.75
B	11.00	11.00	16.00	19.62	22.69
C <sub>F</sub> , C <sub>G</sub>	12.94	13.31	17.25	21.00	25.62
D <sub>F</sub> , D <sub>G</sub>	7.50	9.00	11.00	13.50	16.00
E	.75 NPT	.75 NPT	.75NPT	.75NPT	1.5NPT
F	5.25	5.25	8.00	11.50	18.00
G	8.56	8.56	9.69	11.00	16.50
H	14.90	15.12	17.25	20.31	30.25
Weight:					
Flange x Flange	70.00	79.25	166.50	318.00	501.00
Flange x Grooved	N/A	66.50	148.50	290.00	N/A
Grooved x Grooved	N/A	54.00	130.00	262.00	N/A

