



Hersey Meters

Model HDC Double Check Valve Assembly (3/4", 1", 1-1/2", 2")

FEATURES

- Replaceable springs and discs.
- Smooth transition from low to high flow rates.
- Low head loss through operating range.
- Rugged construction for long dependable service.
- Easy In-line maintenance.
- Test cocks for in-line field testing.
- Ball type shut-off valves (standard).

DESCRIPTION

The Model HDC double check valve assembly is an economical, easily repaired in-line backflow device. It is designed for control of cross-connections between potable water systems and supplies that are objectionable (but not hazardous to health). The device consists of two independent spring loaded poppet-type check valve assemblies mounted in a common body. Two optional shut-off valves and four test cocks for field testing complete the basic features. The complete check valve assemblies include valve, spring and disc can be removed and replaced quickly using low cost replacement kits, without removing the device from the line.

SIZE	3/4"	1"	1 1/2"	2"
A No Valves	7 1/16"	7 1/16"	10 1/4"	10 1/4"
B W/Valves	10 1/16"	11 1/2"	16 7/8"	17 7/8"
C No Valves	3"	3"	4 3/8"	4 3/8"
D W/Valves	2"	2"	3 3/8"	3 3/8"
Max Width	3 7/8"	3 7/8"	5 3/8"	5 3/8"
Testcocks	1/4 NPT	1/4 NPT	1/4 NPT	1/4 NPT
SIZE	3/4"	1"	1 1/2"	2"
Net Wgt.-No Valves, Lbs.	5 1/4	6 1/4	17	19 1/2
Net Wgt.-W/Valves, Lbs.	6 3/4	9	23	28
Gross Wgt.-No Valves, Lbs.	5 3/4	6 3/4	17 1/2	20
Gross Wgt.-W/Valves, Lbs.	7 1/4	9 1/2	23 1/2	28 1/2

APPLICATION

For use at cross-connections when the danger of backflow does not present a health-hazard. Model HDC may be installed in a horizontal or vertical position. Vertical installation is recommended only when the flow of water is upward.

APPROVALS

USC, CSA B64.5, ASSE 1015, AWWA C510, UL, ULC Classified.

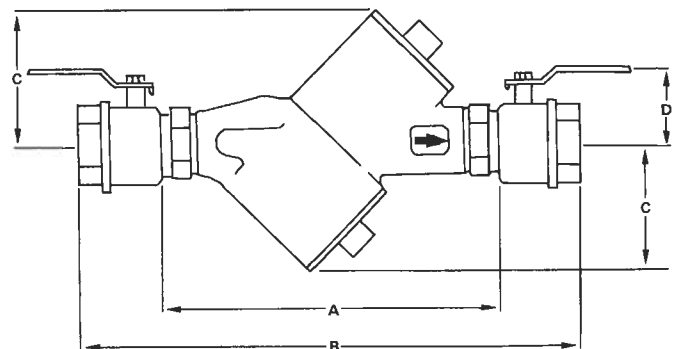
OPERATION

Under normal operating conditions the independently operating, spring-loaded check valves remain closed until there is a demand for water. Each of the two check valves in series is designed to open at 1 PSI pressure differential in the direction of flow.

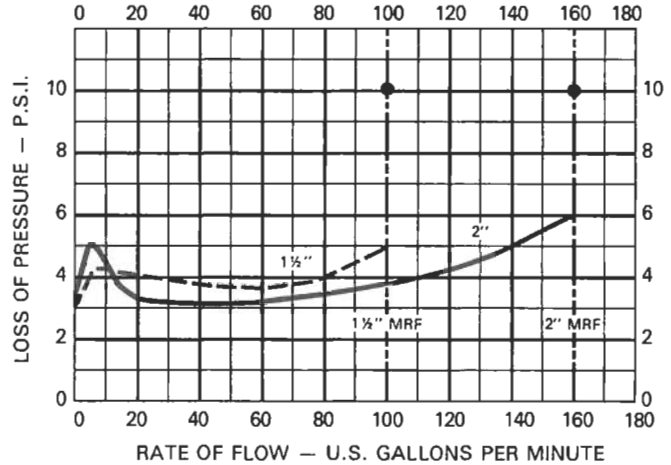
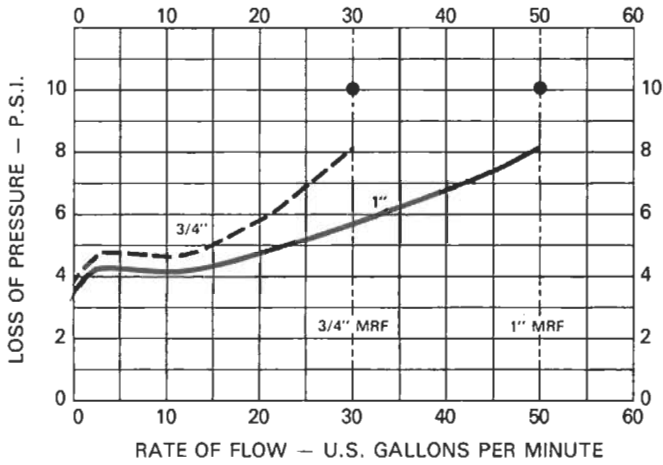
In the event pressure increases downstream of the device, tending to reverse the direction of flow, both check valves are closed to prevent backflow. If the second check valve is prevented from closing tightly, the first check valve still protects from backflow.



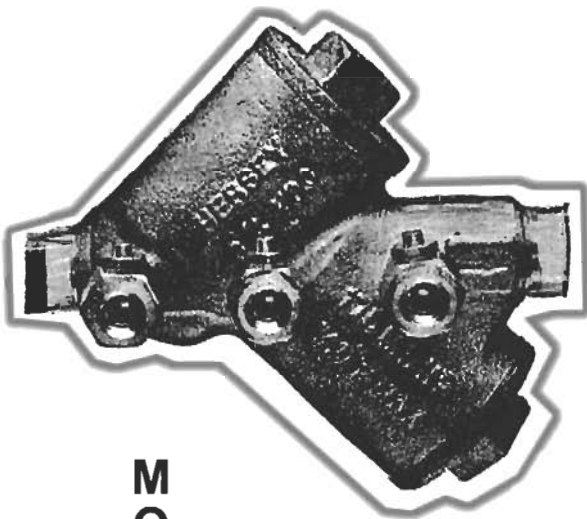
DIMENSIONS



FLOW CURVES



NOTE: ● Maximum allowable pressure loss allowed by USC at indicated flow.

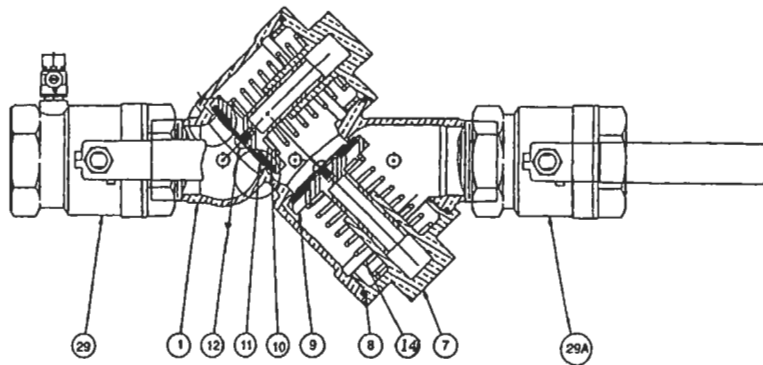


MATERIALS & CHARACTERISTICS

Body	Bronze
Check Valve Poppets	Glass-Reinforced Plastic
Valve Disc	Silicone Rubber
"O" Ring	Buna-N
Springs	Stainless Steel
Screws	Stainless Steel
Check Valve Washer	Stainless Steel
Maximum Working Pressure	175 PSI
Temperature Range	33° - 140°F

MODEL
HDC

INDIVIDUAL PARTS



- | | | | |
|-----------|-----------------|-------------------|---------------------|
| 1. Body | 9. Disc holder | 12. Screw | 29A. Outlet shutoff |
| 7. Cap | 10. Disc | 14. Spring | |
| 8. O-ring | 11. Disc washer | 29. Inlet shutoff | |