

Non-Surge Check Valve (W-M118)

Application:

The Watts W-M118 Non-Surge Check Valve is designed to prevent the backflow of medium in pipeline. It's generally used in city water supply, industrial and agricultural water transmission pipeline, etc.

Features:

- 1. Stable performance, safe and reliable;
- 2. Simple operation, and adjust the opening and closing speed respectively;
- 3. Large flow, small pressure loss;
- 4. Long service life;
- 5. Can prevent water hammer.

Operating Principles:

The valve controls the opening and closing speed through the two way pipe and the regulator valve, when the downstream pressure is higher than the upstream pressure, the valve closes. When the downstream pressure is below the upstream pressure, the valve opens. The valve adjusts the opening and closing speed automatically by two way controlling, reducing turbulence and water hammer.

Technical Specification:

Nominal Diameter: DN50~DN400

Maximum Working Pressure: 1.6MPa Working Temperature: $0^{\circ}\text{C} \sim 80^{\circ}\text{C}$ Fluid Medium: Water

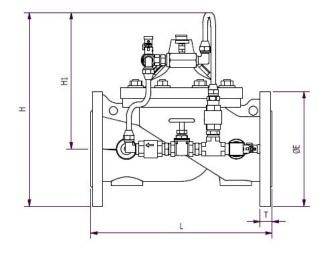
Minimum Different Pressure: 5PSI (0.035MPa)

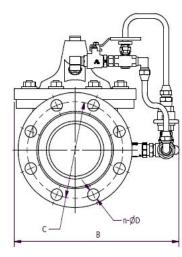
Material:

Part	Body / Bonnet	Stem	Seat	Diaphram	Sealing
Material	Ductile Iron	Stainless Steel	Stainless Steel	NBR+Nylon	NBR

Installation Dimensions:

Connection Dimension: GB/T 17241.6;







Size	Dimensions(mm)				Flange Dimensions(mm)			
DN	L	Н	H1	В	С	n-φD	Е	Т
50	230	272	190	290	125	4-φ19	165	19
65	290	290	198	300	145	4-φ19	185	19
80	310	375	265	320	160	8-φ19	200	19
100	350	395	285	355	180	8-φ19	220	19
125	400	395	285	360	210	8-φ19	250	19
150	480	430	288	420	240	8-φ23	285	19
200	600	540	370	485	295	12-φ23	340	20
250	660	660	458	695	355	12-φ28	406.4	30.2
300	762	770	524	810	410	12-φ28	482.6	31.8
400	889	931	631	925	525	16-φ31	596.9	36.6

Typical Application:

- 1. Water plant and water source project;
- 2. Environmental protection;
- 3. Municipal facilities;
- 4. Electric power and utilities;
- 5. Construction industry.

Installation Instructions:

- (1) The valve's rated parameters should match the equipment's. Make sure that the valve's rated flow satisfies the actual demand;
- (2) The installer must be trained or experienced so as to operate the installation correctly;
- (3) The flow direction from inlet to outlet should be paid attention to in installation, and maintenance space around the valve is convenient to assemble;
- (4) After debugging, the pilot valve and the needle type flow valve must be locked with locknut;
- (5) For the size below DN150, the main valve can be installed horizontally or vertically, but horizontal installation is better. The size above DN150 only can be installed horizontally;
- (6) Valve should be checked regularly, ensuring the debris in filter being cleaned.