

## Wafer Style Check Valve (W-H77X-16Z (B1))

### ◆ Application:

The Watts W-H77X-16Z (B1) Wafer Style Check Valve is designed to automatically open the valve by the flow of medium itself, and close the disc relying on the spring torsion and medium flow, which is used to prevent the backflow of medium. It's generally used in building services, plate heat exchanger, etc.



### ◆ Features:

1. Small volume, light weight and compact structure;
2. Rely on the torsion spring to quickly close on its own;
3. Can be installed in both horizontal and vertical pipes;
4. Safe and reliable performance, good anti-interference performance.

### ◆ Operating Principles:

When the medium flows in accordance with the regulation direction, the discs open because of the force of medium; when the medium counters current, the discs close on its own quickly, relying on the spring torque, to reach the purpose of preventing medium counter-current.

### ◆ Technical Specification:

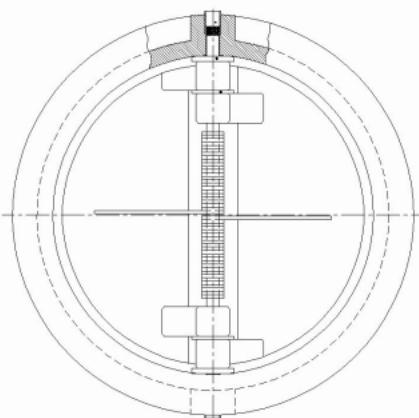
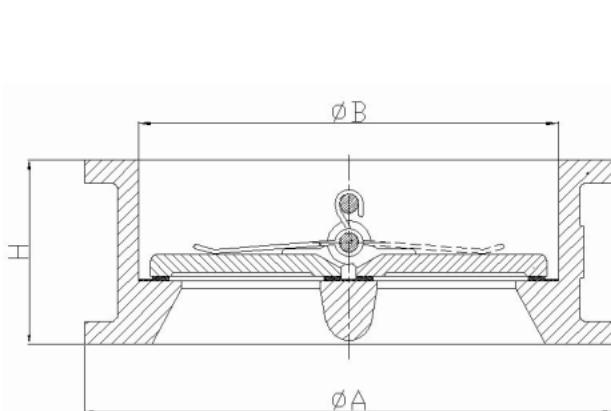
Nominal Size:	DN50 ~ DN600
Working Pressure:	PN16
Working Temperature:	-10°C ~ 120 °C
Fluid Medium:	Water
Design Standard:	BS EN 16767 (BS EN 12334)
Test Standard:	BS EN 12266-1

### ◆ Material:

Part	Body	Seat	Disc	Spring	Valve Shaft
Material	Gray Cast Iron coated with Epoxy	EPDM	Nickel-plated Ductile Iron	Stainless Steel 304	Stainless Steel 420

### ◆ Installation Dimensions:

Connection Dimensions: Suitable for BS EN 1092-2



Dimension Parameter (mm)	Size DN (mm)													
	50	65	80	100	125	150	200	250	300	350	400	450	500	600
A	107	127	142	162	192	218	273	328	378	438	489	539	594	695
B	65	80	94	117	145	170	224	265	310	360	410	450	505	624
H	43	46	64	64	70	76	89	114	114	127	140	152	152	178

#### ◆ Typical Application:

1. Water plant and water source project;
2. Environmental protection;
3. Municipal facilities;
4. Electric power and utilities;
5. Construction industry;
6. Steel & Metallurgy
7. Papermaking 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) A thorough check after installation is needed to ensure no errors;
- (4) A thorough cleaning before installation is needed (chemical reagent can be applied if it is necessary) to ensure that there is not any rusting or dirt in the pipe. All the filters must be removed before washing to keep the pipe smoothly open;
- (5) When beginning to wash the system, it is suggested to install the valve on a temporary pipe. After finishing system cleaning, move the valve back and install it on the system's pipe;
- (6) Use flange and the corresponding bolts that meet the standard to connect the valve;
- (7) The direction of flow must accord with the direction of the arrow head on the valve body.