

### Structural Features and Applications

The H47X, H47H, HH47X, HH47H, H47XF, and HDH47X Butterfly Silent Check Valves are primarily designed for installation at the outlet of pumps in industrial water supply and wastewater treatment systems to prevent backflow. Their integrated buffering mechanism automatically eliminates destructive water hammer, protecting both pumps and pipelines from damage. Featuring a compact, innovative design with low flow resistance, reliable sealing, excellent wear resistance, smooth operation, and superior damping performance, these valves are an ideal solution for industrial water and municipal wastewater applications.



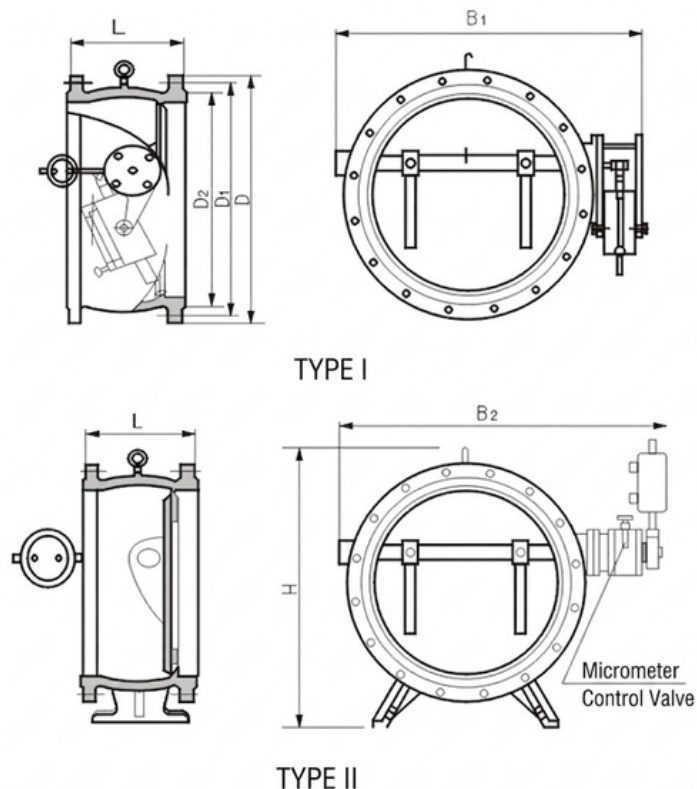
### Materials of Main Parts

| Part Name | Body                         | Butterfly Plate                          | Seal Ring                                               | Stem            | Packing                        |
|-----------|------------------------------|------------------------------------------|---------------------------------------------------------|-----------------|--------------------------------|
| Material  | Gray Cast Iron, Carbon Steel | Gray Cast Iron, Cast Steel, Ductile Iron | Nitrile Butadiene Rubber (NBR), Chloroprene Rubber (CR) | Stainless Steel | Polytetrafluoroethylene (PTFE) |

### Main Technical Parameters

| Model                                     | Nominal Pressure<br>PN (MPa) | Test Pressure (MPa) |      | Working Pressure<br>(MPa) | Medium<br>temperature<br>(°C) | Suitable media                     |
|-------------------------------------------|------------------------------|---------------------|------|---------------------------|-------------------------------|------------------------------------|
|                                           |                              | Casing              | Seal |                           |                               |                                    |
| H47X、H47H、H_H47X、<br>H_H47H、H47X_F、HDH47X | 1.0                          | 1.5                 | 1.1  | 1.0                       | 0~80°C                        | Water, oil,<br>seawater,<br>sewage |
|                                           | 1.6                          | 2.4                 | 1.75 | 1.6                       |                               |                                    |
|                                           | 2.5                          | 3.75                | 2.75 | 2.5                       |                               |                                    |

### Main External and Connection Dimensions



DHH47H<sub>X</sub> HDH47X Butterfly Buffer Non-return Valve

| Nominal Size<br>DN | Dimensions (mm) |      |                |                |      |                |                |
|--------------------|-----------------|------|----------------|----------------|------|----------------|----------------|
|                    | L               | D    | D <sub>1</sub> | D <sub>2</sub> | H    | B <sub>1</sub> | B <sub>2</sub> |
| 200                | 230             | 360  | 310            | 278            | 550  | 540            | 600            |
| 250                | 250             | 425  | 370            | 332            | 630  | 600            | 700            |
| 300                | 270             | 485  | 430            | 390            | 690  | 650            | 740            |
| 350                | 290             | 550  | 490            | 448            | 780  | 710            | 800            |
| 400                | 310             | 610  | 550            | 505            | 860  | 770            | 870            |
| 450                | 330             | 660  | 600            | 555            | 910  | 830            | 920            |
| 500                | 350             | 730  | 660            | 610            | 980  | 900            | 1000           |
| 600                | 390             | 840  | 770            | 718            | 1070 | 1090           | 1250           |
| 700                | 430             | 955  | 875            | 815            | 1220 | 1200           | 1360           |
| 800                | 470             | 1070 | 990            | 930            | 1320 | 1320           | 1480           |
| 900                | 510             | 1180 | 1090           | 1025           | 1430 | 1420           | 1580           |
| 1000               | 550             | 1350 | 1210           | 1140           | 1550 | 1550           | 1700           |
| 1200               | 630             | 1525 | 1420           | 1350           | 1800 | 1780           | 1950           |
| 1400               | 710             | 1750 | 1640           | 1560           | 1980 | 2000           | 2175           |