

A8033-... Silent Check Valve Series



**Silent Check Valve
A8033-..Series
Flanged connection
PN10, PN16, PN25**

Performance & Features:

Check valves, also known as one-way valves or non-return valves, serve to prevent medium backflow in pipelines. A silent check valve opens when the medium pressure at the pipeline inlet overcomes spring resistance. When the inlet pressure drops below the outlet pressure (i.e., under pump shutdown conditions), the core is rapidly pushed toward the valve seat by spring force and system reaction force to close the valve, thereby blocking backflow and achieving the non-return function.

- ◆ Nominal diameter: DN50...DN800 (For other sizes, please consult ZIGTOO authorized representatives).
- ◆ Axial flow design, ensuring smoother medium flow and lower resistance.
- ◆ Built-in spring, enabling rapid closing and eliminating water hammer impact.
- ◆ A guide device and linear sealing structure designed, ensuring flexible closing performance and effectively reducing closing noise.
- ◆ Simple structure, excellent processing performance and wide application range.
- ◆ Installation in accordance with the flow direction marked on the valve body; overall non-directional requirement for installation.

Applications:

Check valves are installed at the pump outlets of water supply and drainage, hot and cold water, water treatment, primary and secondary hot water supply pipeline systems in general buildings, apartments, office buildings, commercial complexes, data centers, factories and other projects, to prevent medium backflow in pipelines caused by pump shutdown.

Model Designation:

For example: A8033-100-16Q

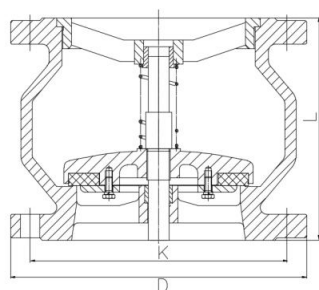
1. "A80": Check Valve Series;
2. "3" (the first 3): Silent Check Valve ;
3. "3" (the second 3): Flanged Connection;
4. "-100": Nominal Diameter DN100;
5. "-": separator;
6. "-25/16/10" Nominal Pressure: PN25/PN16/10;
7. "Q": Ductile Iron, "C": Cast steel, "P": Stainless Steel;

Technical Specification:

PN (Nominal Pressure)	PN10, PN16, PN25
Connection standard	Flanged connection EN1092-2
Working Temperature	-15°C~130°C
Body	Ductile Iron QT 450-10
Stem	Ductile Iron QT 450-10
Bracket	Ductile Iron QT 450-10
Seal	EPDM
Pressure Plate	Stainless Steel

Note: Cast steel and stainless steel are available for the valve body; the materials of the valve disc and bracket shall be consistent with that of the valve body.

Dimension and KVS Value Table



DN	PN16		L mm	D mm	K mm	Kvs (m³/h)
	Bolt hole diameter	D/mm				
50	4-19	165	98	165	125	49
65	4-19	185	120	185	145	75
80	8-19	200	142	200	160	125
100	8-19	220	175	220	180	183
125	8-19	250	200	250	210	340
150	8-23	285	245	285	240	500
200	12-23	340	290	340	295	1100
250	12-28	405	350	405	355	1610
300	12-28	460	390	460	410	2290
350	16-28	520	375	520	470	2890
400	16-31	580	400	580	525	3700
450	20-31	640	430	640	585	5310
500	20-34	715	450	715	650	6550
600	20-41	840	510	840	770	9500
700	24-41	910	600	910	840	13500
800	24-41	1025	680	1025	950	18000

Sizes for other pressure rating series are available upon consultation with ZIGTOO representatives.