

A8083-C/L... Multifunctional Check Valve Series



Multifunctional Check Valve
A8083-C/L...series
PN10, PN16, PN25

Performance & Features:

- ◆ Nominal diameter: DN150...DN500;
- ◆ A single valve perfectly integrating multiple functions of a check valve, globe valve, balancing valve and elbow fitting in one unit.
- ◆ Disc closing by spring force when the pump stops operating, preventing backflow, and providing effective non-return function.
- ◆ A return spring installed on the rubber soft-sealing disc, enabling silent operation and water hammer prevention, while achieving tight sealing with zero leakage.
- ◆ Stainless steel spring, delivering excellent corrosion resistance.
- ◆ Function as a balancing valve with pump output regulated by adjusting the opening degree.
- ◆ Function as a globe valve when the valve is fully closed via the handwheel.
- ◆ A streamlined shape and structure, with minimal pressure drop.
- ◆ Installation supported on both horizontal and vertical pipelines.

Applications:

The multifunctional check valve is installed at the pump outlet of water supply and drainage, cold and hot 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: A8083-150C-16Q

1. "A80": Check Valve;
2. "8": Multifunctional Check Valve ;
3. "3": Flanged Connection;
4. "-150": Nominal Diameter DN150; "C": Angel, "L": Straight-through;
5. "-" separator;
6. "-25/16/10": Nominal Pressure, PN25/PN16/10;
7. "Q": Ductile Iron, "C": Cast steel, "P": Stainless Steel;

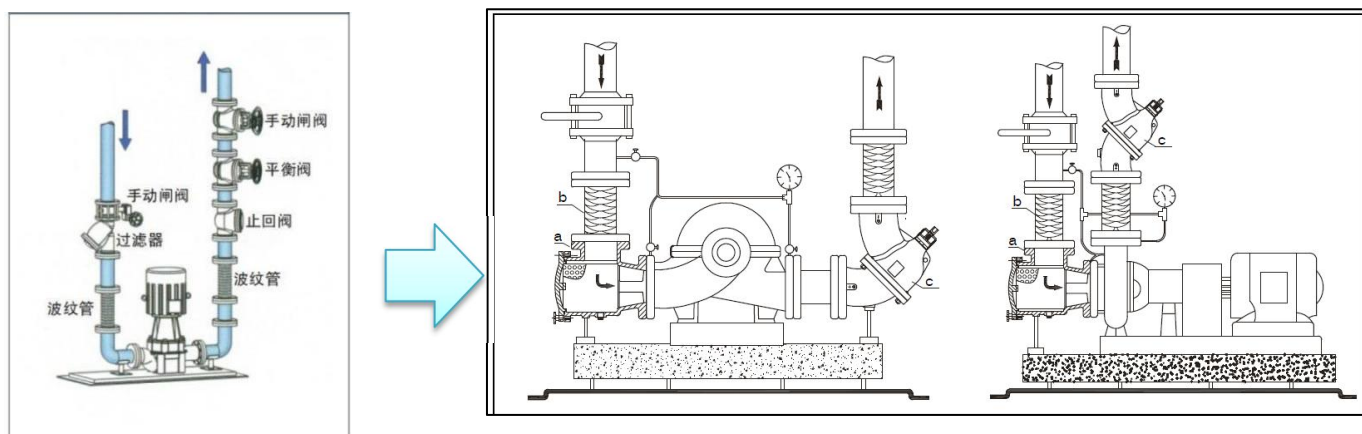
Technical Specification:

PN (Nominal Pressure)	PN10, PN16, PN25
Connection Standard	Flanged connection EN1092-2
Working Temperature	-10°C~130°C
Body	Ductile Iron QT 450-10; Cast steel (WCB); Stainless Steel CF8
Seat	Stainless Steel CF8
Stem	Stainless Steel 20Cr13
Handwheel	Ductile Iron
Seal	EPDM

Kvs Table:

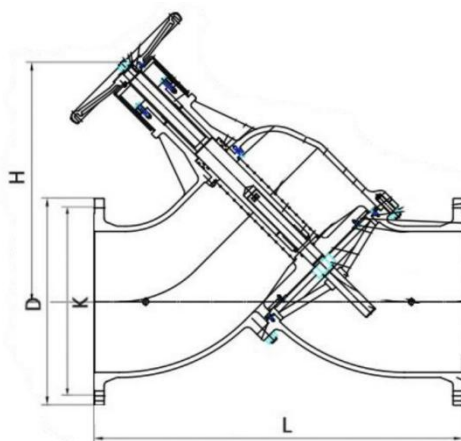
Model/PN16	Pipe diameter (in.)	DN (mm)	Kvs (m³/h)
A8083-150C/L-16Q	6"	150	673
A8083-200C/L-16Q	8"	200	1200
A8083-250C/L-16Q	10"	250	2000
A8083-300C/L-16Q	12"	300	2500
A8083-350C/L-16Q	14"	350	2900
A8083-400C/L-16Q	16"	400	3900
A8083-450C/L-16Q	18"	450	5200
A8083-500C/L-16Q	20"	500	7000

Pay attention to the water flow marking (arrow) on the valve body during installation. Alternatively, follow the principle of low inlet and high outlet on both sides of the valve bore. The valve is suitable for both vertical and horizontal installation.



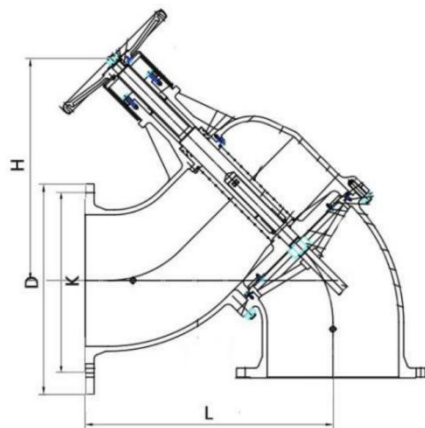
Dimension Chart:

Multifunctional Check Valve A8083-L...Straight-Through Series



DN	PN16		PN25		L mm	H mm
	Bolt Hole Diameter	D/mm	Bolt Hole Diameter	D/mm		
150	8-23	285	8-28	300	500	344
200	12-23	340	12-28	360	610	435
250	12-28	405	12-31	425	710	480
300	12-28	460	16-31	485	830	575
350	16-28	520	16-34	555	900	614
400	16-31	580	16-37	620	980	688
450	20-31	640	20-37	670	1020	788
500	20-34	715	20-37	730	1280	826

Multifunctional Check Valve A8083-C...Angel Series



DN	PN16		PN25		L mm	H mm
	Bolt Hole Diameter	D/mm	Bolt Hole Diameter	D/mm		
150	8-23	285	8-28	300	355	344
200	12-23	340	12-28	360	440	435
250	12-28	405	12-31	425	505	480
300	12-28	460	16-31	485	600	575
350	16-28	520	16-34	555	640	614
400	16-31	580	16-37	620	690	688
450	20-31	640	20-37	670	710	788
500	20-34	715	20-37	730	920	826