

Series W-STBV-25P

Stainless Steel Static Balancing Valve

Size: DN65-DN150

The Series W-STBV Static Balancing Valve is designed for flow balancing in cooling, heating or process water systems. Its measuring points enable convenient system troubleshooting.

Features

- Accurate flow control
- Numerical indicator of opening rate on the handwheel
- Shut-off function achieved by handwheel
- Self-sealing measuring points to protect against leakage

Operating Principles

The Series W-STBV Static Balancing Valves can be applied in different places in a water system, such as FCU, AHU and MAU. When the system is under static hydraulic disorder, through manually setting the opening rate of the valves, the system's undesired resistance distribution can be changed into the desired one. This ensures that the actual flow value of every bypass or terminal matches its design value.

Material

No.	Component	Material
1	Body	CF8 (SS304)
2	Bonnet	CF8 (SS304)
3	Sleeve	SS304
4	Disc	SS304
5	Stem Barrel	SS304
6	Stem	SS304
7	Connecting bolte	SS304
8	Pin	SS304
9	Inside hexagonal bolt	A2-70 (SS304)
10	Gasket	A2-70 (SS304)
11	Inside hexagonal bolt	A2-70 (SS304)
12	Gasket	A2-70 (SS304)
13	Testing point	SS304
14	O-RING	NBR
15	Sealing	EPDM
16	O-RING	NBR
17	O-RING	NBR
18	Jump ring	SS304
19	O-RING	NBR
20	Handle Wheel	PA66

Note: All EPDM materials specified are peroxide-cured. This curing method enhances thermal stability, chemical resistance, and long-term sealing performance, making the material highly suitable for demanding liquid cooling applications.

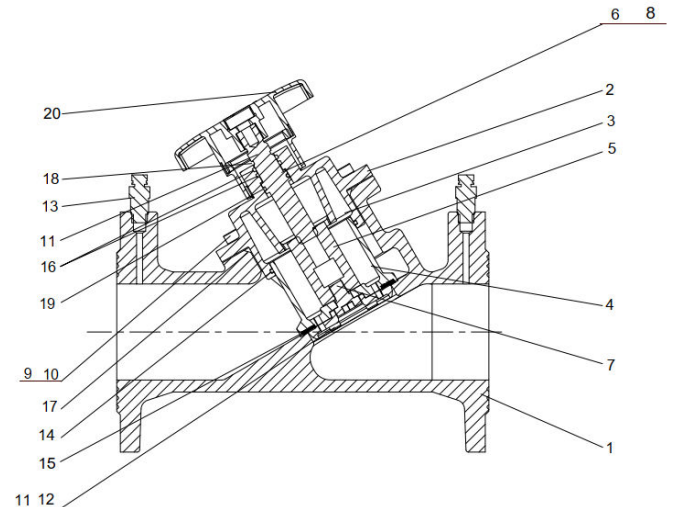
Product Model

Type	Size	Kvs
W-STBV065-25P	DN65	86.2
W-STBV080-25P	DN80	119.7
W-STBV100-25P	DN100	197.9
W-STBV125-25P	DN125	314
W-STBV150-25P	DN150	405.8



Technical Specification

- Dimensions: DN65-DN150
 - Working Temperature: -10~80°C
 - Working Pressure: PN25
 - Fluid Medium: Cold and Hot Water / ≤50% Propylene Glycol
 - Connection: Flange
 - Connection Standard: EN1092-01
- Note: Tri-Clamp and weld-end sanitary connections available upon request.



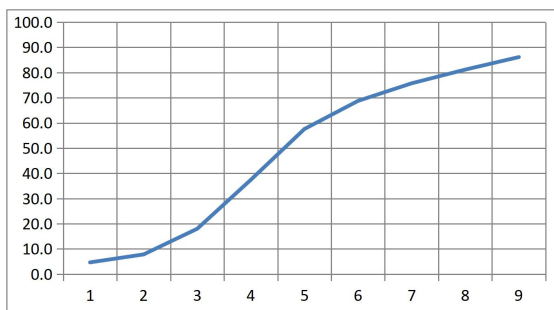
Coding Rules

W	WATTS	W-	STBV	065-	25	P
STBV	Static Balancing Valve					
Size						
065-DN65	080-DN80					
100-DN100	125-DN125					
150-DN150						
Working Pressure	PN25					
Body Material	SS304					

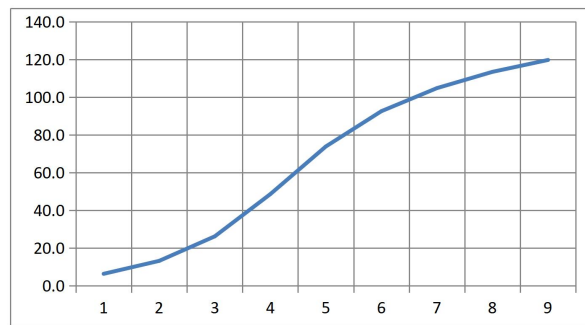
Kv Values:

Turns	DN65	DN80	DN100	DN125	DN150
1.0	4.6	6.2	12.8	17	24.9
2.0	7.8	13.1	24.8	32.8	64.4
3.0	18	26.1	40.7	57.1	102.6
4.0	37.4	48.5	69.7	97.8	145.6
5.0	57.6	73.8	109.9	147.1	211.1
6.0	68.8	92.5	139.2	200.6	267
7.0	75.7	104.8	163.4	238	336.3
8.0	81.2	113.4	185.2	270.7	367.2
9.0	86.2	119.7	197.9	314	405.8

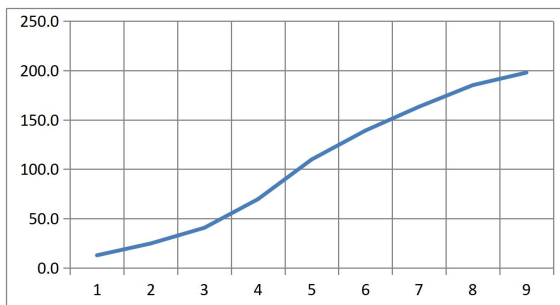
Characteristic Curves



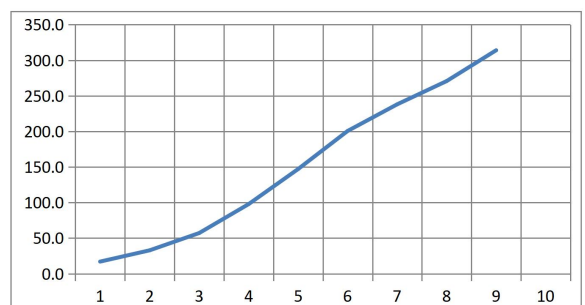
DN65



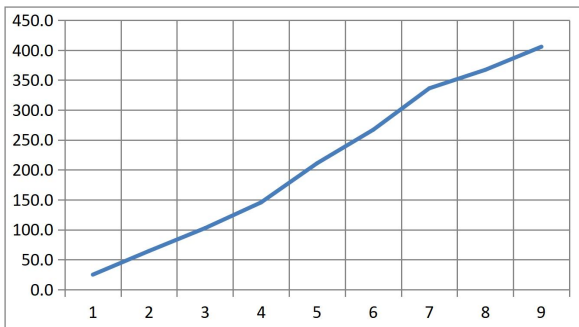
DN80



DN100



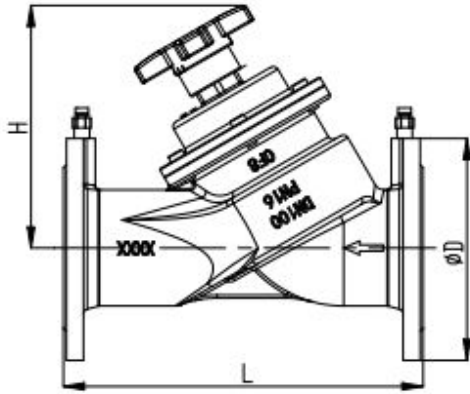
DN125



DN150

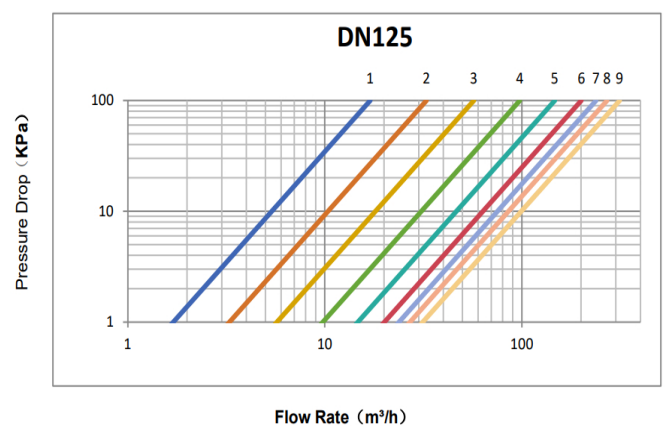
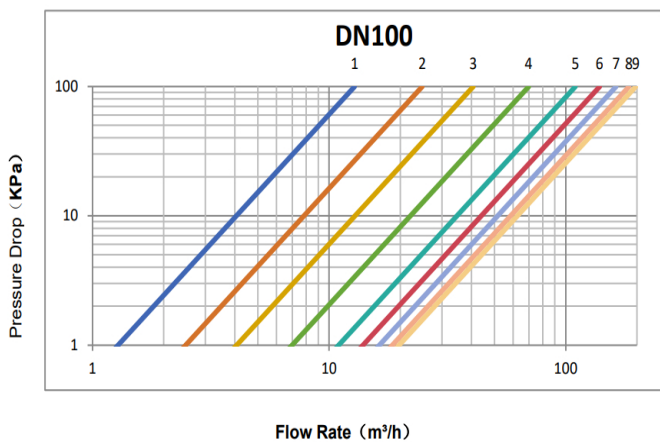
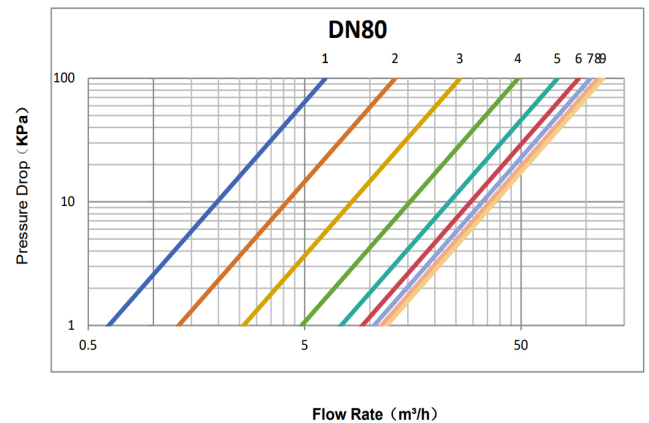
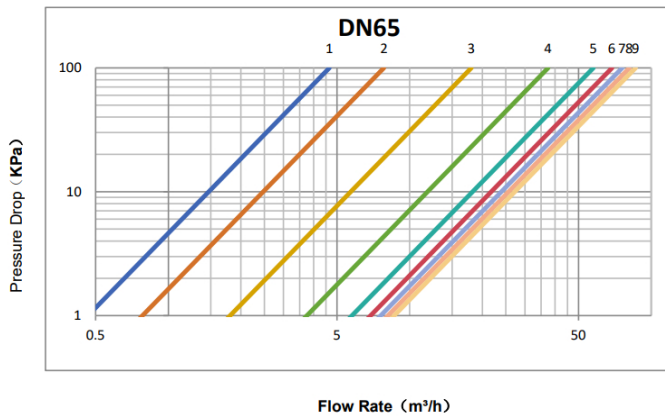
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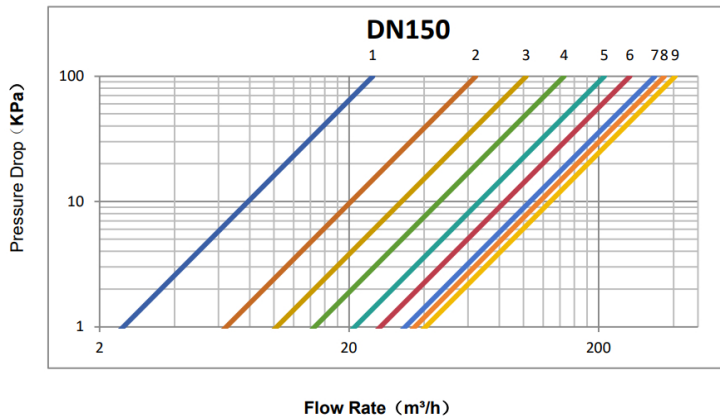
Installation Dimensions



Size	Flange bolt hole	L (mm)	H (mm)
DN65	8-Ø19	290	192
DN80	8-Ø19	310	207
DN100	8-Ø23	350	240
DN125	8-Ø28	400	248
DN150	8-Ø28	480	280

Characteristic Curve





Installation Instructions

The Series W-STBV Static Balancing Valve is usually installed on return pipe. When combined with Differential Pressure Balancing Valve, it can be used for supply pipe. Generally, when connected to an elbow or a pump, the valve must keep a certain distance from the elbow or the pump. The rule is shown in the right figure.

