

## Series W-STBV-25P

### Stainless Steel Static Balancing Valve

#### Size: DN15-DN50

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	Seat	EPDM
3	Disc	CF8 (SS304)
4	Sealing	EPDM
5	Bonnet	CF8 (SS304)
6	Stem	SS304
7	Stem	SS304
8	Sealing	EPDM
9	Shaft Sealing	EPDM
10	Circlips	CF8 (SS304)
11	Cap	CF8 (SS304)
12	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

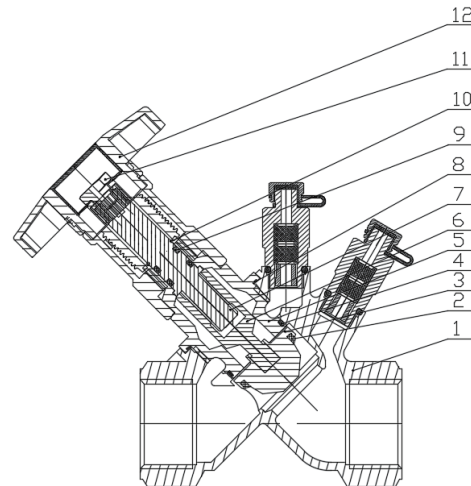
Type	Size	Kvs
W-STBV015-25P	DN15	3.9
W-STBV020-25P	DN20	5.7
W-STBV025-25P	DN25	8.9
W-STBV032-25P	DN32	19.4
W-STBV040-25P	DN40	27.5
W-STBV050-25P	DN50	38.8



#### Technical Specification

- Dimensions: DN15-DN50
- Working Temperature: -10~120°C
- Working Pressure: PN25
- Fluid Medium: Cold and Hot Water / ≤50% Propylene Glycol
- Connection: Rp Thread
- Connection Standard: ISO 7-1

Note: Tri-Clamp and weld-end sanitary connections available upon request.



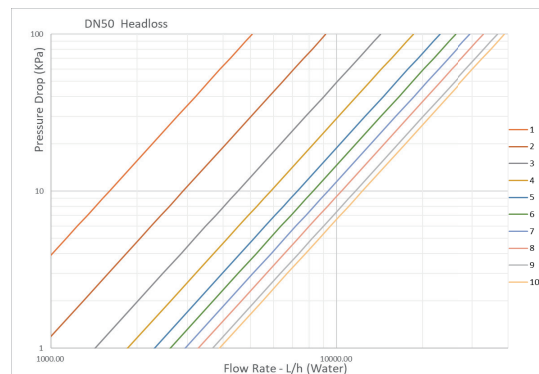
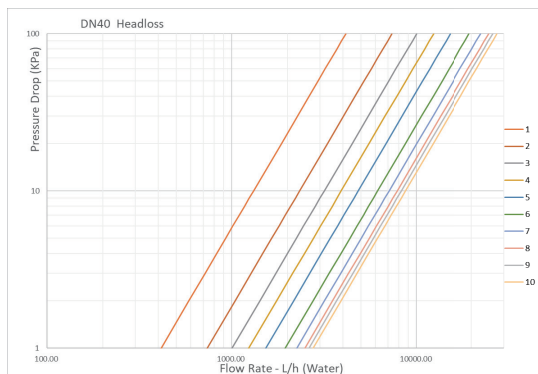
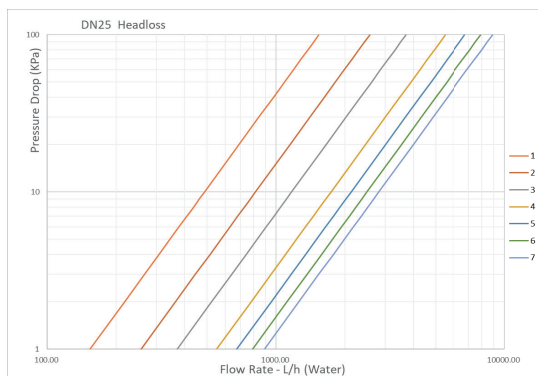
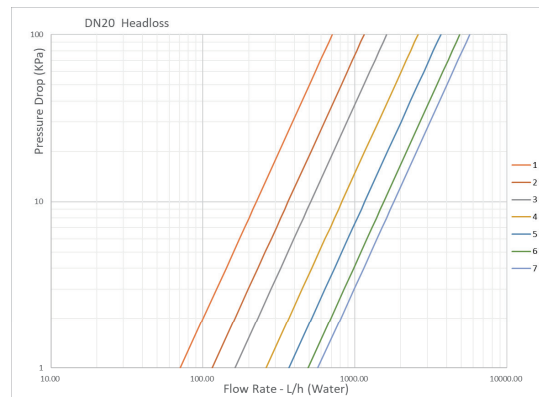
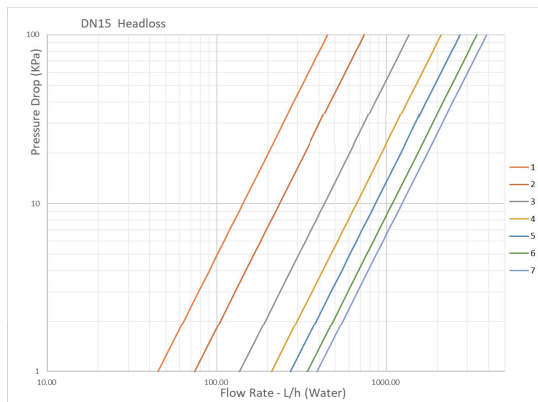
#### Coding Rules

W	WATTS	W-	STBV	015-	25	P
STBV	Static Balancing Valve					
Size						
015-DN15	020-DN20					
025-DN25	032-DN32					
040-DN40	050-DN50					
Working Pressure	PN25					
Body Material	Stainless Steel					

## Kv Values :

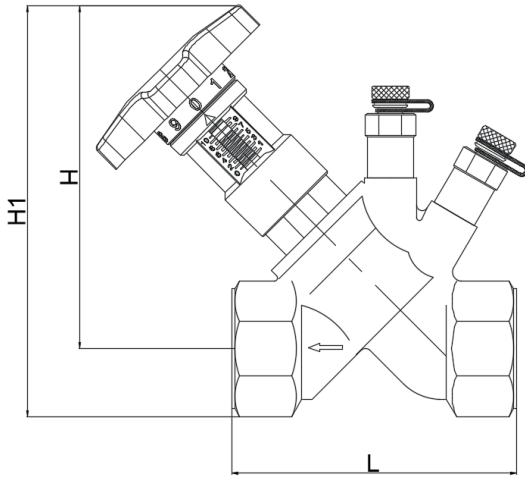
Turns	DN15	DN20	DN25	DN32	DN40	DN50
1.0	0.5	0.7	1.5	2.1	4.1	5.1
2.0	0.7	1.2	2.6	4.0	7.4	9.2
3.0	1.4	1.6	3.7	6.0	10.0	14.2
4.0	2.1	2.6	5.5	7.7	12.4	18.5
5.0	2.7	3.7	6.7	9.7	15.3	23.0
6.0	3.4	4.9	7.9	11.7	19.4	26.1
7.0	3.9	5.7	8.9	13.9	22.4	29.4
8.0				16.1	24.8	32.8
9.0				18.2	26.1	36.7
10.0				19.4	27.5	38.8

## Characteristic Curves



Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.

## Installation Dimensions



Size	Female Thread	L (mm)	H (mm)	H 1(mm)
DN15	G 1/2	80	115	130
DN20	G 3/4	85	115	135
DN25	G 1	100	120	150
DN32	G 1 1/4	120	136	156
DN40	G 1 1/2	120	140	170
DN50	G 2	150	150	190

## 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.

