

DPsense Stainless Threaded Balancing Valve

SPEC SHEET

PRODUCT CODE: DPS-IRV-SS-(Size)

example DPS-IRV-SS-50 (DN50 / 50mm threaded)

KEY FEATURES

Threaded BSP Stainless 304 grade balancing valve for applications where Brass or cast iron is not preferred.

- 304 stainless Body and internals
- PTFE seat seal
- Brass Binder test points (SS on request)
- 0-90°C operating temperature 12 bar
- Recommended 5 x Dia straight pipe upstream and 2 x Straight downstream for accuracy of measurement.
- Flow setting table available on request



Handle with
Position marks



Code	Size	Length (mm)	Weight (Approx)
DPS-IRV-SS-15	DN15	80	0.42kg
DPS-IRV-SS-20	DN20	81	0.45kg
DPS-IRV-SS-25	DN25	90	0.50kg
DPS-IRV-SS-32	DN32	97	0.75kg
DPS-IRV-SS-40	DN40	106.5	0.90kg
DPS-IRV-SS-50	DN50	120	1.40kg



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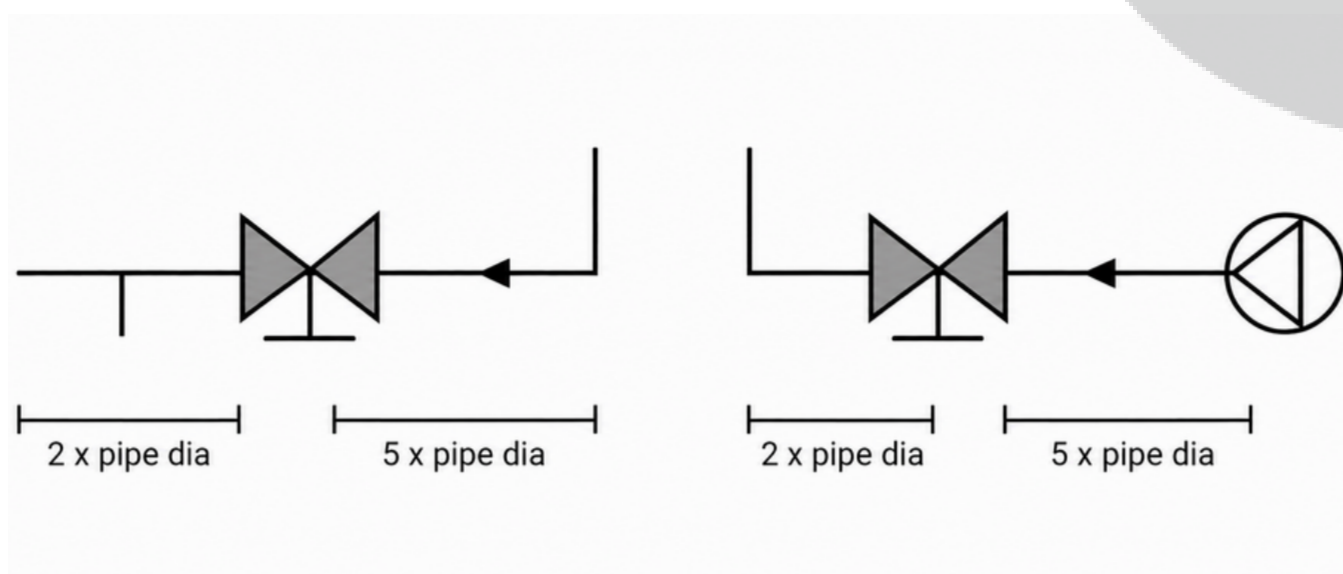
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Installing the Valve

Important: This valve is suitable for general-purpose regulating and balancing applications. It is not recommended where high flow-measurement accuracy, fine control at low flow rates or a high turndown ratio is required. For critical commissioning and precision balancing applications, use a HERZ or IMI TA STAD valve with verified manufacturer flow data.



To prevent high-velocity or turbulent flow from affecting measurement accuracy, do not install the balancing valve directly beside pipe branches, pumps, other control components or valves. Install the balancing valve with the following minimum lengths of straight pipe:

- Upstream of the balancing valve: 5 × pipe diameter (mm)
- Downstream of the balancing valve: 2 × pipe diameter (mm)

Measure these distances from the nearest flow disturbance to the balancing valve, as shown in the diagram.

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Setting the Dial

The dials may need to be manually set to 0,0 during install. If the valve is fully closed but not showing 0,0, follow the below steps to set the dials manually (if required).

- Completely close the valve .
- Remove the top red cap and screw (PH2).
- Manually twist the inner dial until the face shows 0,0.
- Reseat the dial onto the valve stem and secure the screw. Tighten until it bottoms out and then back out ¼ turn.

Note: Any flow after 4,0 is considered wide open and no further flow value can be derived from the table.

0,0 Position



Kv Table

Position	DN15	DN20	DN25	DN32	DN40	DN50
0.5	0.37	0.4	1.4	1.4	2.7	3.9
0.6	0.4	0.44	1.58	2.12	2.85	4.23
0.7	0.44	0.5	1.7	2.6	3	5
0.8	0.47	0.57	1.8	2.92	3.16	5.97
0.9	0.52	0.64	1.89	3.13	3.32	6.94
1	0.55	0.7	2	3.3	3.5	7.8
1.1	0.6	0.75	2.12	3.42	3.69	8.47
1.2	0.64	0.77	2.26	3.56	3.94	8.98
1.3	0.68	0.8	2.4	3.7	4.1	9.4
1.4	0.712	0.84	2.5	3.9	4.29	9.98
1.5	0.75	0.9	2.6	4.1	4.5	10.6
1.6	0.78	0.94	2.7	4.2	4.68	11.32
1.7	0.81	1.02	2.9	4.4	4.9	12.1
1.8	0.87	1.07	3.06	4.61	5.23	12.94
1.9	0.91	1.14	3.22	4.86	5.62	13.84
2	0.94	1.2	3.5	5.1	6.1	14.8
2.1	0.97	1.25	3.7	5.53	6.67	15.8
2.2	1	1.29	4.03	5.95	7.37	16.84
2.3	1.06	1.3	4.27	6.5	8.2	17.9
2.4	1.1	1.35	4.53	6.97	9.05	18.92
2.5	1.18	1.5	4.8	7.6	10	19.9
2.6	1.26	1.57	4.96	8.13	10.78	20.81
2.7	1.35	1.7	5.1	8.6	11.6	21.7
2.8	1.49	1.85	5.24	9.32	12.53	22.45
2.9	1.63	2.02	5.37	9.86	13.38	23.2
3	1.75	2.2	5.5	10.4	14.41	23.9
3.1	1.93	2.43	5.6	10.68	15	24.62
3.2	2.08	2.67	5.72	10.86	15.74	25.29
3.3	2.25	2.9	5.8	10.9	16.6	25.9
3.4	2.35	3.15	5.91	11.06	17.06	26.56
3.5	2.44	3.4	6	11.2	17.6	27.2
3.6	2.46	3.61	6.1	11.25	18.13	27.74
3.7	2.5	3.8	6.18	11.31	18.57	28.3
3.8	2.55	3.96	6.2	11.47	18.94	28.83
3.9	2.6	4.06	6.34	11.69	19.24	29.34
4	2.67	4.1	6.4	11	19.5	29.8