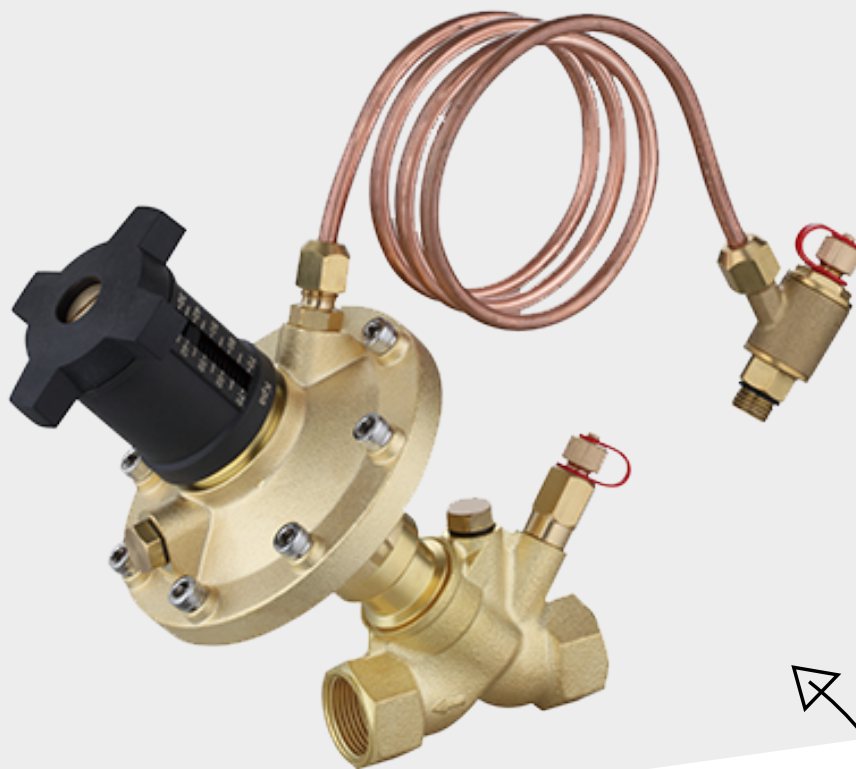


# BL006110



Engineering  
GREAT Solutions

Control valves for general applications

# BL006110

## Concept of Balance Valves

Balance valves are mainly for flow balance control at the terminals and loops of commercial and industrial HVAC systems to tackle hydraulic imbalance. The cooling and heating changes of air-conditioning systems and their operation effect are closely related to the proper application of balance valves. NEPTUNE's balance technology enables hydraulic balance fully, thus cutting energy consumption, and enhancing heating comfort of air-conditioning systems. Building on this technology, NEPTUNE has provided proper product models and technical services for several products, gathering rich project exp



In HVAC systems with hydraulic balance, it is very critical to use meters featuring stable and precise performance. These meters can transmit data of differential pressure, flow and temperature to the computer for accurate regulating



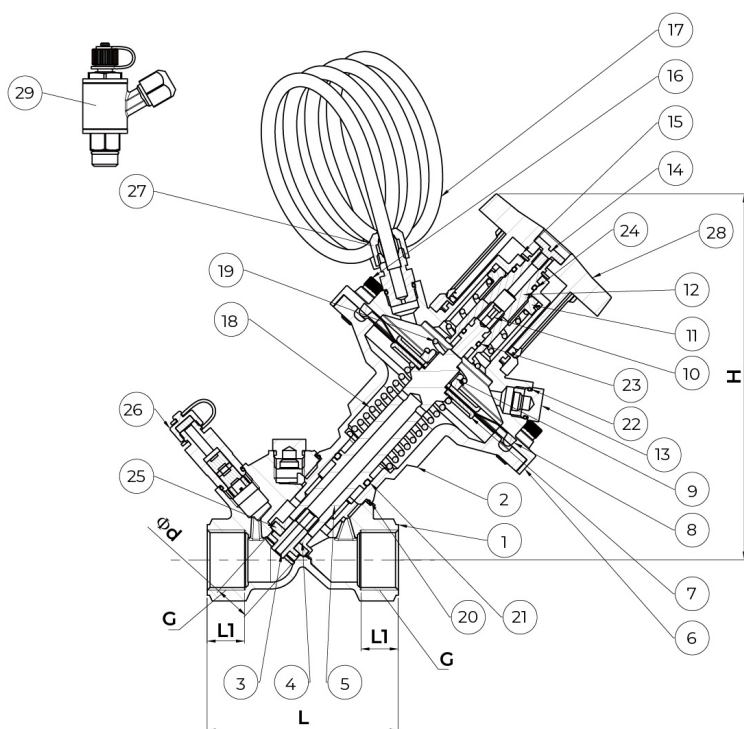
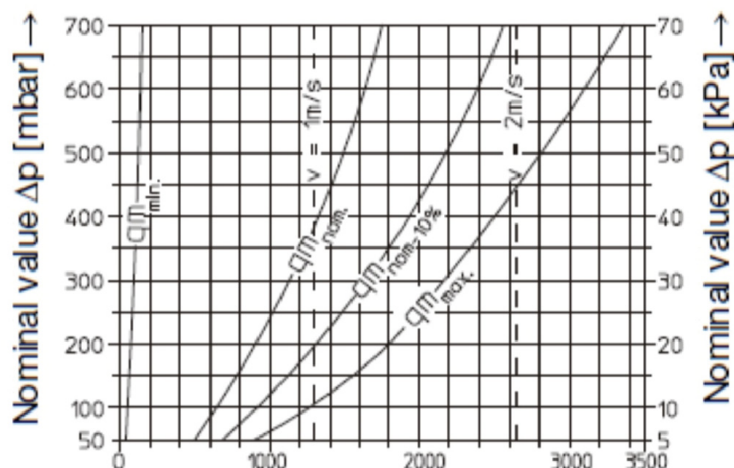
## How To Measure?

1. Fill the sensor with fluid to ensure correct measurement.
2. Ensure the measuring probe is free from blockage.
3. Insert the measuring probe into the measuring point of the balance valve vertically as the probe is subject to bending and breakage.
4. Maximum differential pressure between the first and second measurements by the pressure differential sensor: 12 Bar.
5. Blow gas into the sensor to drain fluid fully and prevent damage due to freezing.
6. Prevent device from falling down, squeezed and under water.

The valves designed and manufactured by Neptune provide ideal and correct solutions in the recommended application fields at the lowest purchasing and maintenance cost, able to meet and exceed the specified standards developed through years of experience, researches and laboratory testing.

# Applications

- > Construction field: In the water supply pipeline of buildings, balance valves can be used to adjust the water pressure difference between different floors to ensure stable water pressure on each floor.
- > Heating field: In the heating system, balance valves can be used to adjust the heating amount between different rooms, thereby achieving balanced distribution of heat.
- > In the field of air conditioning: In air conditioning systems, balance valves can be used to regulate the flow of coolant, thereby achieving temperature balance control..



Unit: mm

DN	Kvs(m³/h)	G	L	L1	H	d
15	0.4-1.5	G1/2"	82	16	158	Φ12
20	0.4-2.1	G3/4"	84	16.5	160	Φ16
25	1-4.4	G1"	97.5	20	163	Φ24
32	2.4-9.9	G1-1/4"	109	21	172	Φ29
40	3.2-13.8	G1-1/2"	120	21	178	Φ34
50	4.4-24.6	G2"	149.5	22.5	210	Φ43

29	Test Cock	1	Assembly
28	Handwheel	1	Assembly
27	Cock Assembly	1	Assembly
26	Test Cock	1	Assembly
25	Sealing Gasket	1	EPDM
24	O-RING	1	EP7118F
23	O-RING	1	EP7118F
22	O-RING	2	EP7118F
21	O-RING	1	EP7118F
20	O-RING	1	EP7118F
19	Spring	1	304SS
18	Spring	1	304SS
17	Copper tube	1	T2
16	Screw	8	304SS
15	Clip	1	304SS
14	Brass Screw	1	CW617N
13	Plug	2	CW617N
12	Spindle	1	CW617N
11	Adjustable NUT	1	CW617N
10	Stem	1	CW617N
9	Lock	1	CW617N
8	Washer	1	EPDM
7	Plate	2	304SS
6	Bonnet	1	CW617N
5	Valve stem	1	CW617N
4	Seat	1	CW617N
3	Lower Lock Cap	1	CW617N
2	Bonnet	1	CW617N
1	Body	1	C83600

No.	Part	QTY	MATERIAL
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\* For any data errors or questions, please contact the manufacturer.

\* Neptune reserves the right to change drawings, content, modifying or data updating herein without further notice.