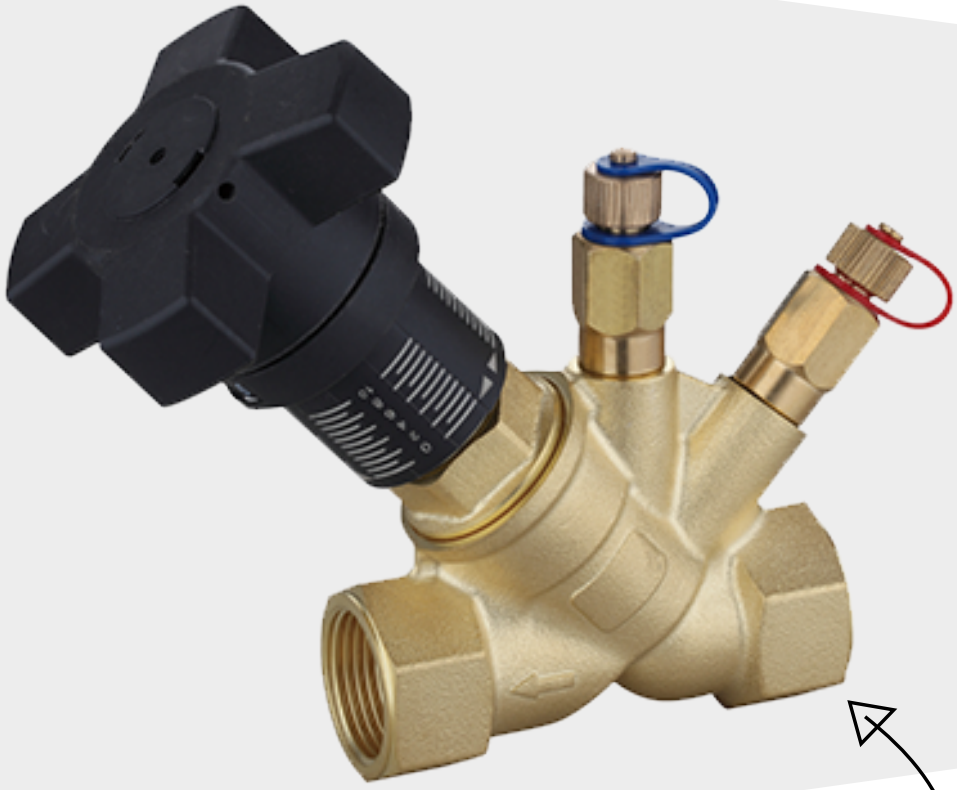
NEPTUNE
Fluid Control System

BL006101



Engineering
GREAT Solutions

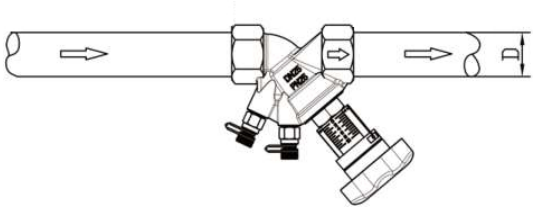
Control valves for general applications

NEPTUNE Fluid Control System
Neptune Industrial Group INC

BL006101

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

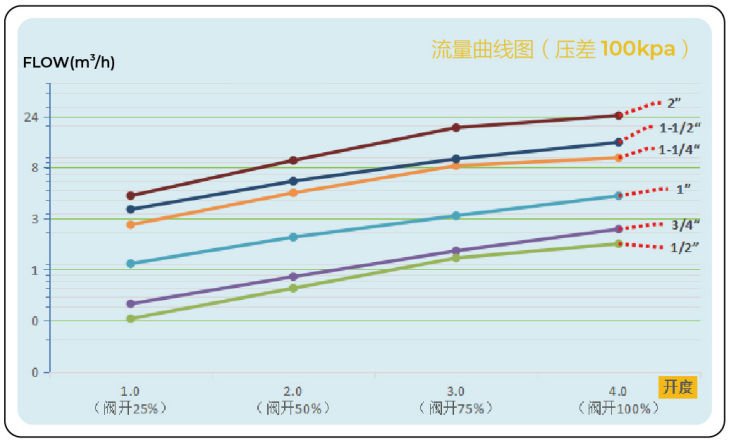
How To Measure?

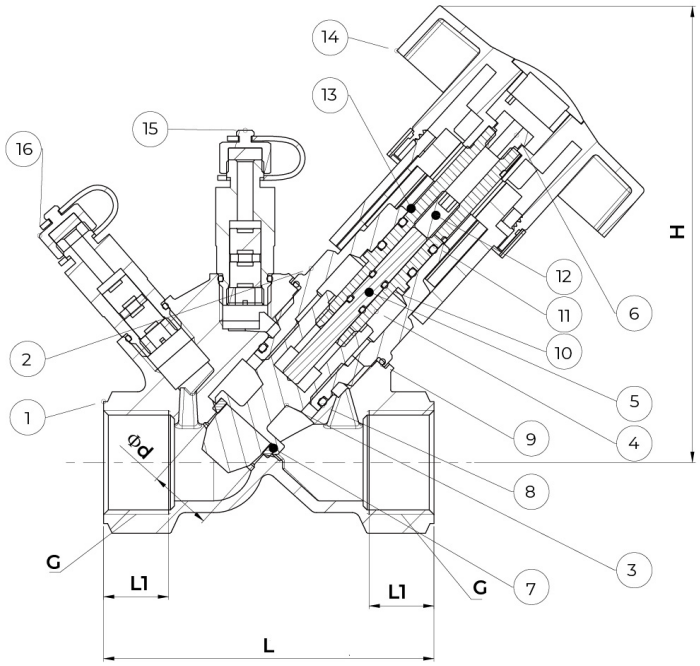
1. Fill the sensor with fluid to ensure correct measurement.
2. Ensure the measuring probe is free from blockage.
3. Insert the measuring probe into the measuring point of the balance valve vertically as the probe is subject to bending and breakage.
4. Maximum differential pressure between the first 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	G	L	L1	H	d
15	G1/2"	82	16	116	Φ12
20	G3/4"	84	16.5	116	Φ16
25	G1"	97.5	20	119	Φ24
32	G1-1/4"	109	21	137	Φ29
40	G1-1/2"	120	21	144	Φ34
50	G2"	149.5	22.5	156	Φ43

No.	Part	QTY	MATERIAL
16	Test Cock	1	Assembly
15	Test Cock	1	Assembly
14	Handwheel	1	Assembly
13	Clip	1	304SS
12	Screw	1	304SS
11	O-RING	2	EP7118F
10	O-RING	2	EP7118F
9	O-RING	1	EP7118F
8	O-RING	1	EP7118F
7	Sealing Gasket	1	PTFE
6	Brass NUT	1	CW617N
5	Piston	1	304SS
4	Stem	1	CW617N
3	Seat	1	CW617N
2	Bonnet	1	CW617N
1	Body	1	CW617N

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