

AV 23 SETTER Bypass Flange

Balancing valves



Direct reading and balancing valve with visual flow indication.

Description

Direct hydraulic balancing and control of flows to consumers or in a subsystem. SETTER Bypass balancing valves offer an easy and accurate method of adjusting the flow rates for heating-, ventilation-, air conditioning- and cooling systems.

Correct balancing of hydraulic circuits ensures optimum energy distribution, resulting in more efficient and economical operation in accordance with the energy saving regulations provided for by legislation.

With SETTER Bypass balancing valves, any qualified fitter can set the appropriate flow rate using the unique flow measurement device, avoiding investments in training and costly measuring devices.

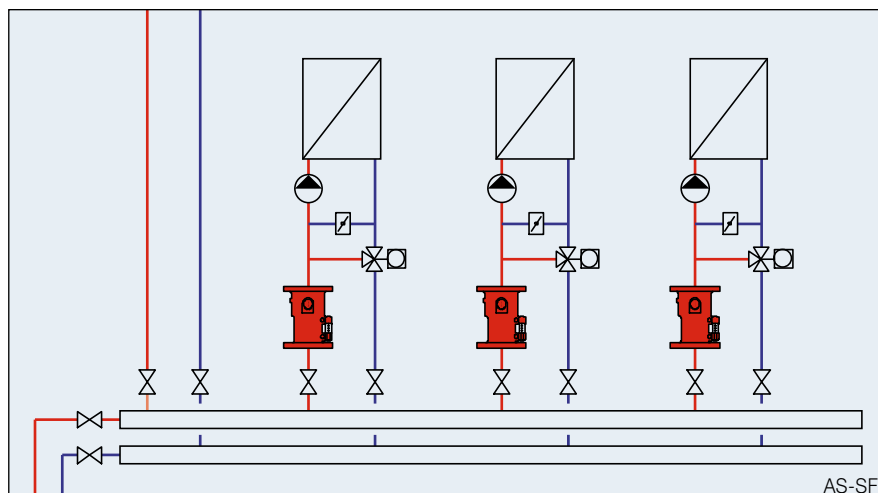
Installation

To avoid turbulence and obtain maximum accuracy of the required flow it is necessary to install, on the inlet side of the valve, a section of straight pipe, the same diameter and length as the valve body.

The valve may be installed in any position, care should be taken in order to ensure that both the measuring cylinder and adjustment screw are not obstructed and that the arrow is pointing in the direction of the flow.

Advantages

- Precise and quick balancing without diagrams, tables or measuring devices
- Flow rate displayed directly in l/min
- Regulating valve with adjustment scale and isolating facility (Rest leakage possible)
- Can be installed in any position
- Maintenance of the flowmeter under full operating pressure
- Possibility to connect a filling or draining cock



Operation

Measurement of the flow rate through the valve can be set by turning the adjustment screw until the required flow rate is read on the front edge of the float, which is situated within the measuring cylinder.

The two check valves must be in the open position but can be closed after commissioning without affecting the set position.

AV 23 SETTER Bypass

Specification text

Regulating and stop valve with direct indication of the set flow rate in l/min.

Automatic isolating bypass with gauge and indicator running parallel to the main flow rate.

Gauge with baffle float and return spring. Measured values can be set and read directly at the sight glass without tables, diagrams or measuring devices.

Low pressure loss.

Technical data

Max. operating temperature: TB 100 °C

Max. operating pressure: PB 10 bar

k_{VS} value and measurement range see "Type program".

Measuring accuracy: $\pm 5\%$
(of nominal flow)

Material:

Valve body: grey, cast iron

Valve housing materials: bronze

Sight glass: heat- and impact resistant plastic

Seals: EPDM

Fluids

- Water and proprietary additives used against corrosion and freezing
- Heating water (VDI 2035)
- Cooling water

Spare parts



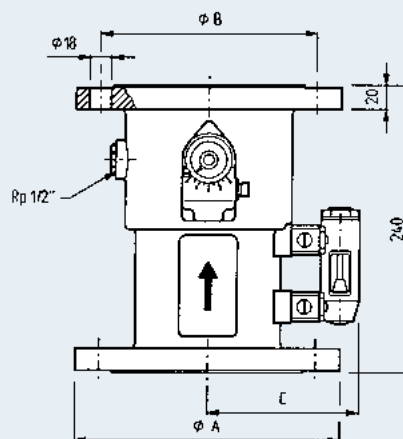
Type programme

Code no.	DN	Measurement range	Weight (kg)	k_{VS} (m ³ /h)
223.2151.000	65	60 – 325 (l/min)	13,9	85
223.2251.000	80	75 – 450 (l/min)	16,5	166
223.2351.000	100	100 – 650 (l/min)	19,7	208

Dimensions

Code no.	DN	A	B	C	$\phi 18$
223.2151.000	65	185	145	110	4 holes
223.2251.000	80	200	160	118	8 holes
223.2351.000	100	220	180	128	8 holes

Dimensions

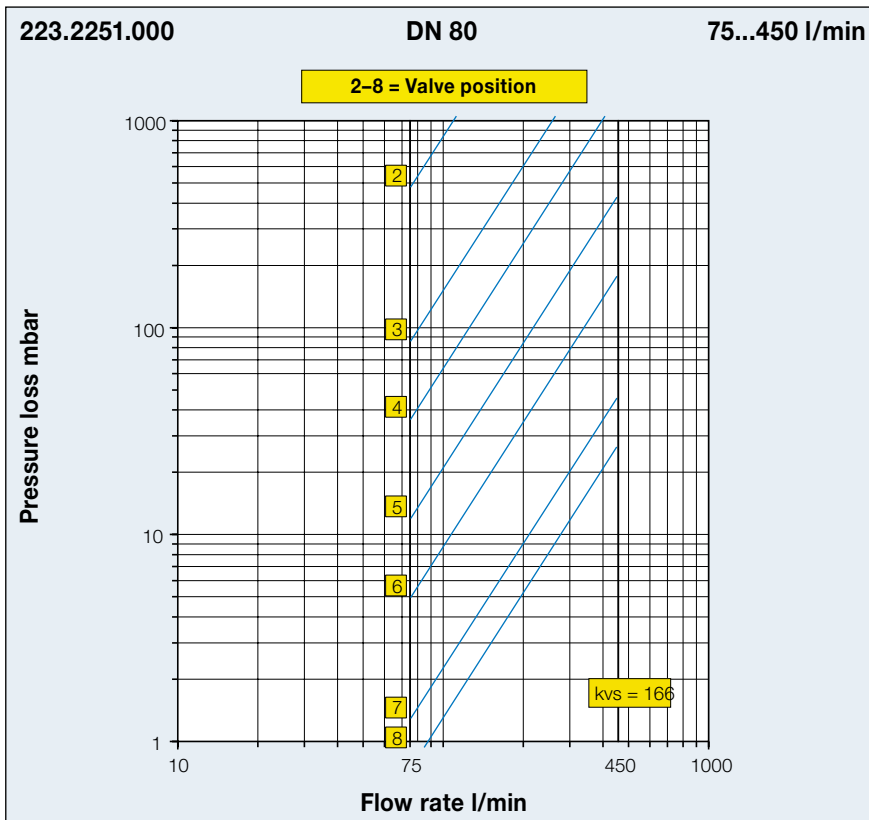
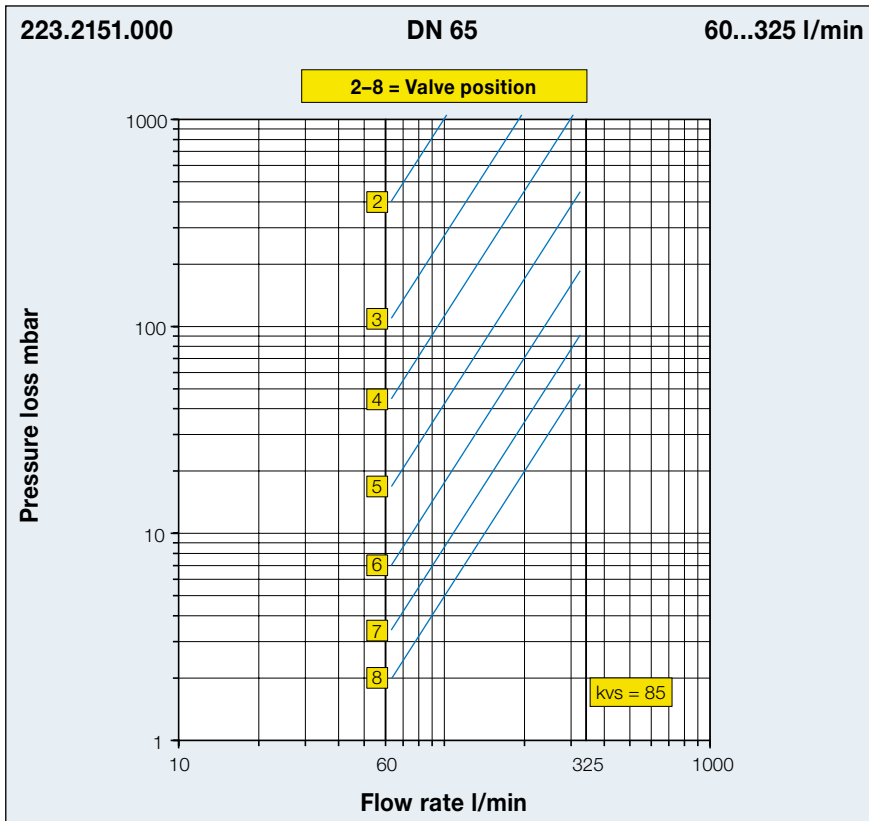


Measuring body incl. seals

Code no.	Fits to	Measurement range
298.2321.000	DN 65 (223.2151.000)	60 – 325 (l/min)
298.2322.000	DN 80 (223.2251.000)	75 – 450 (l/min)
298.2323.000	DN 100 (223.2351.000)	100 – 650 (l/min)

AV 23 SETTER Bypass

Pressure loss diagrams



AV 23 SETTER Bypass

