

# AV 23 Balancing Valves SETTER Bypass



## Application

### Direct reading and balancing valve with visual flow indication.

Correct balancing of circuits ensure optimum efficiency of the system and can therefore help reduce energy consumption.

AV 23 balancing valves facilitate fast and accurate adjustment of flow rates through heating and air conditioning circuits.

The required flow rate can be set without the need to consult curves, conversion charts, or invest in expensive commissioning equipment.

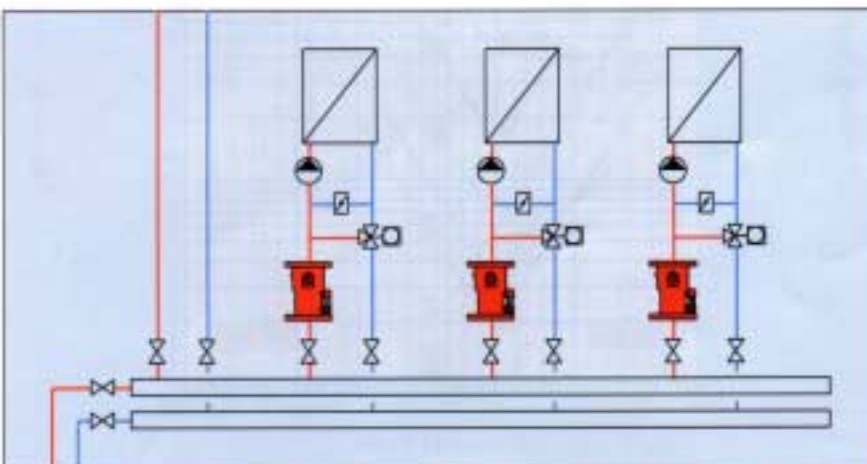
## Installation

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
- Installation of 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



## Technical Data

Max. operating temperature: 100 °C

Max. operating pressure: 10 bar

$k_{vs}$ - value and measurement range:  
refer to type program table

Valve body: grey cast iron

Valve housing parts: brass

Sightglass: plastic

Seals: EPDM

Thread according to DIN 2999 (ISO 7)

Measuring accuracy: +/-5%  
(highest nominal flow)



**Measuring Body  
incl. seals**

## Fluids

- Water and proprietary additives used against corrosion and freezing
- Heating water
- Cooling water

## Specification text

Balancing and setting valve AV 23 SETTER Bypass with measuring, adjustment and shut-off (however, not isolating facility).

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Max. operating pressure: 10 bar

Valve body: grey cast iron

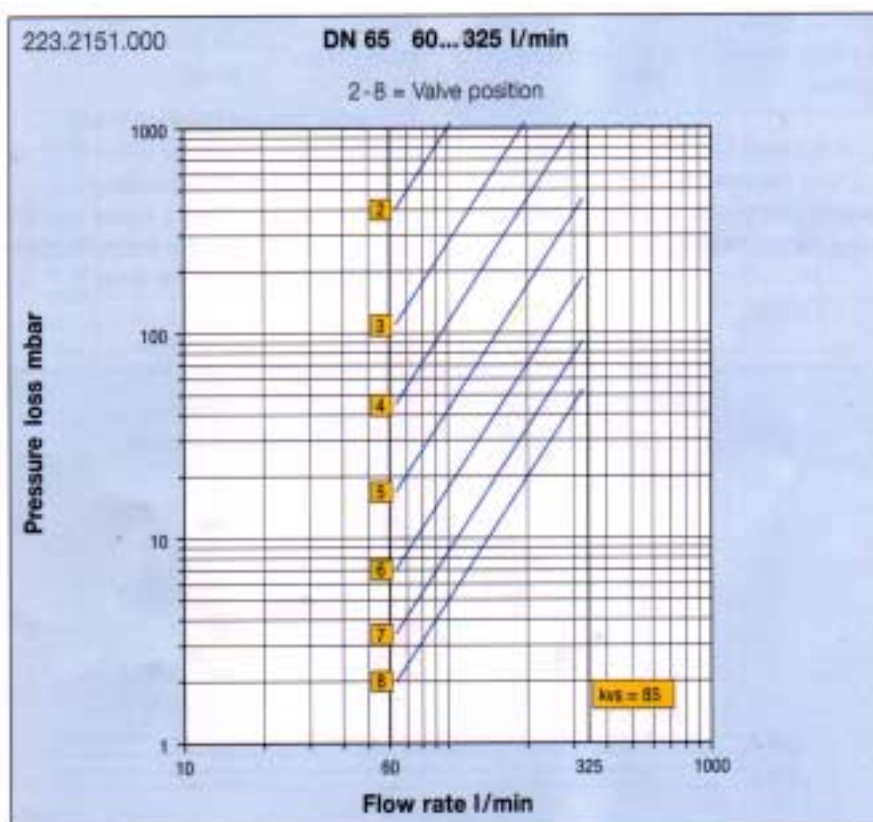
## Type Program

Item no.	DN	Measurement range (l/min)	Weight (kg)	$k_{vs}$ (m <sup>3</sup> /h)
223.2151.000	65	60 - 325	13.9	85
223.2251.000	80	75 - 450	16.5	166
223.2351.000	100	100 - 650	19.7	208

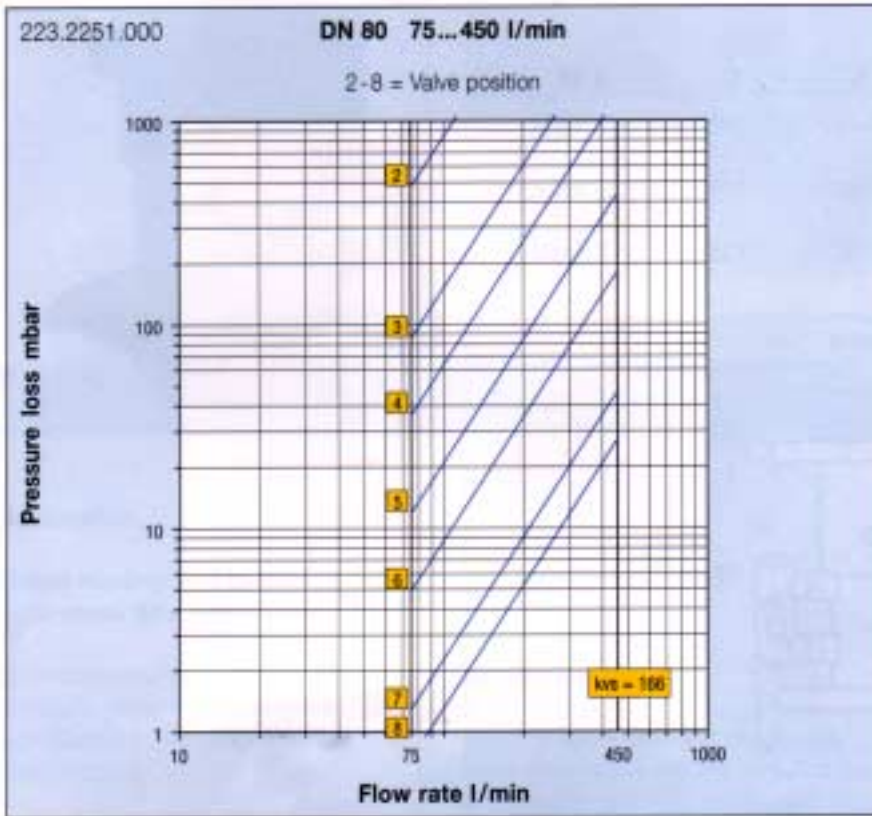
## Spare Parts

Item no.	Fits to	Measurement range (l/min)
298.2321.003	DN 65	223.2151.000
298.2322.003	DN 80	223.2251.000
298.2323.003	DN 100	223.2351.000

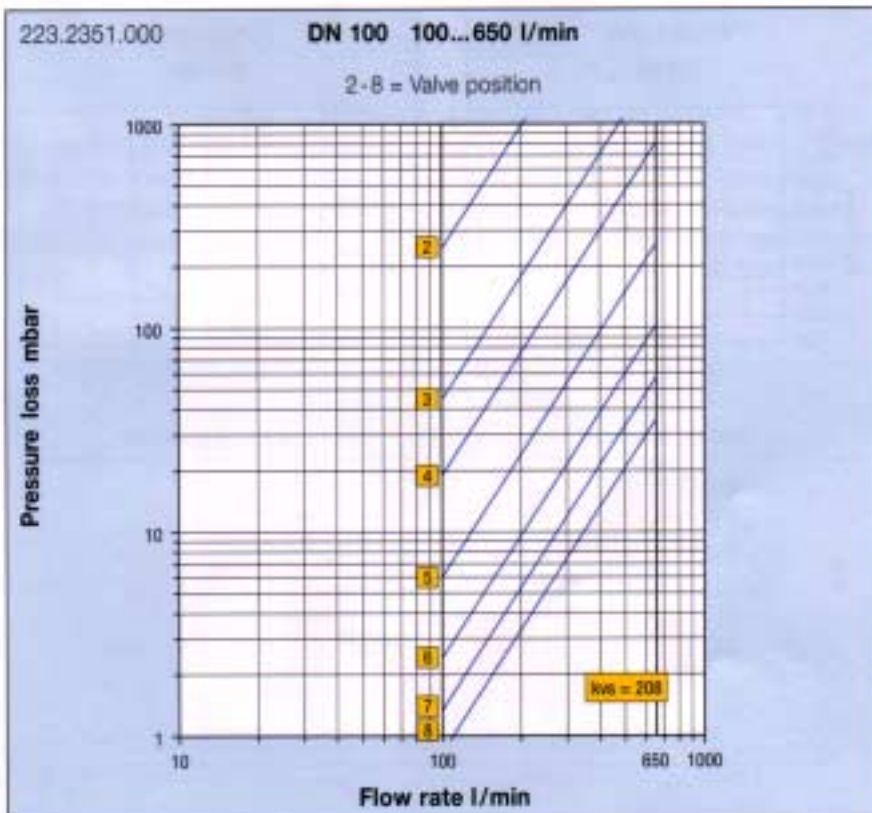
## Pressure loss diagram DN65



# AV 23 SETTER Bypass



Pressure loss diagram DN80



Pressure loss diagram DN80

# AV 23 SETTER Bypass SD

## Dimensions

Item no.	DN	A	B	C	Ø 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

