AV 23 SETTER Inline

Balancing Valves





Direct regulation, reading and shut-off of flows in systems

Description

Direct hydraulic balancing and control of flows to consumers or in a sub-system. Balancing valves offer a quick, easy and accurate method of adjusting the flow rates through 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.

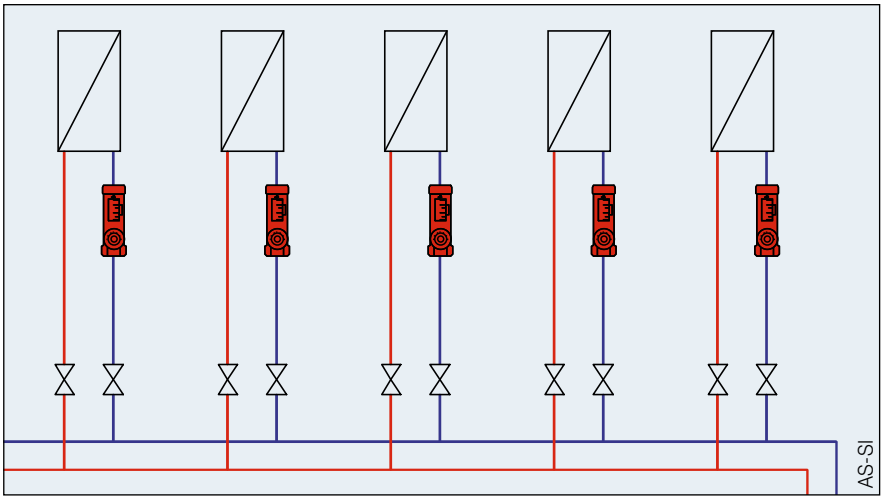
With Setter Inline balancing valves, any qualified fitter can set the appropriate flow rate using the unique flow measurement device, avoiding investments in training and costly measuring devices.

Installation

The valve can be installed in a horizontal, vertical or inclined position. Care should be taken that the arrow is pointing in the direction of the flow.

Advantages

- Accurate and quick balancing without diagrams, tables or measuring devices
- The flow rate is displayed directly in l/min
- Regulating valve with adjustment scale
- Regulating valve with isolating facility
- Can be installed in any position
- Additional types are also available as make resistant to dezincification.



Operation

The flow measurement is based on the principle of a baffle float with return spring. The flowmeter is built into the housing.

The balancing can be carried out with a screwdriver at the adjusting screw. The reading position is the bottom line of the baffle float.

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Specification text

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

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: 100 °C

Max. operating pressure: 10 bar

k_{VS} value and flow measurement range, see table type programme

Measuring accuracy: ±10% (highest nominal flow)

Material:
Housing: see “type programme”
Sight glass: heat- and impact resistant plastic
Seals: EPDM

Female thread to DIN 2999 / ISO 7 or male thread G (cylindrical) to ISO 228

Fluids

- Water and proprietary additives used against corrosion and freezing
- Heating water (VDI 2035)
- Cooling water
- Potable water certificates: SVGW, KTW, ACS and WaterMark

(WaterMark for DZR versions only)

Type programme

Setter Inline Standard made of brass

Code no.	DN	G × Rp	Measuring range (l/min)		k_{VS} (m³/h)
223.1202.000	15	¾" × ½"	0,3 – 1,5		0,25
223.1203.000	15	¾" × ½"	0,6 – 2,4		0,6
223.1204.000	15	¾" × ½"	1,0 – 3,5		1,35
223.1208.000	15	¾" × ½"	2,0 – 8,0		1,8
223.1209.000	15	¾" × ½"	3,0 – 12,0		1,85

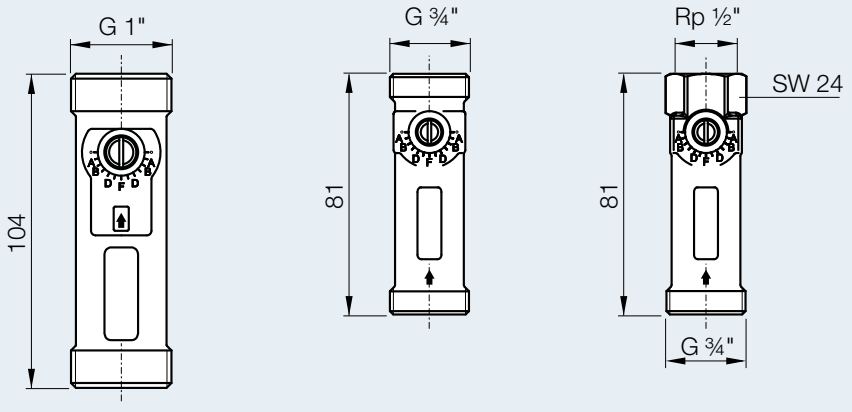
Code no.	DN	G × G	Measuring range (l/min)		k_{VS} (m³/h)
223.1233.000	15	¾" × ¾"	0,6 – 2,4		0,6
223.1234.000	15	¾" × ¾"	1,0 – 3,5		1,35
223.1238.000	15	¾" × ¾"	2,0 – 8,0		1,8
223.1239.000	15	¾" × ¾"	3,0 – 12,0		1,85
223.1300.000	20	1" × 1"	4,0 – 15,0	HXINUV	5,0
223.1302.000	20	1" × 1"	8,0 – 30,0	HXINUV100	5,0
223.1305.000	20	1" × 1"	10,0 – 40,0		5,0

Setter Inline made of dezincification-resistant brass

Code no.	DN	G × Rp	Measuring range (l/min)	k_{VS} (m³/h)
223.1204.104	15	¾" × ½"	1,0 – 3,5	1,35
223.1208.104	15	¾" × ½"	2,0 – 8,0	1,8
223.1209.104	15	¾" × ½"	3,0 – 12,0	1,85

Code no.	DN	G × G	Measuring range (l/min)	k_{VS} (m³/h)
223.1233.104	15	¾" × ¾"	0,6 – 2,4	0,6
223.1234.104	15	¾" × ¾"	1,0 – 3,5	1,35
223.1238.104	15	¾" × ¾"	2,0 – 8,0	1,8

Dimensions



Accessories





VF 10 System-connections

Compression fitting joint with nut, clamping ring and supporting sleeve

Code no.	G × mm	Version for	suitable for
210.3325.000	¾" × 15	Copper pipe 15/1 eurocone	SETTER Inline DN 15

Connection with nut and tail piece

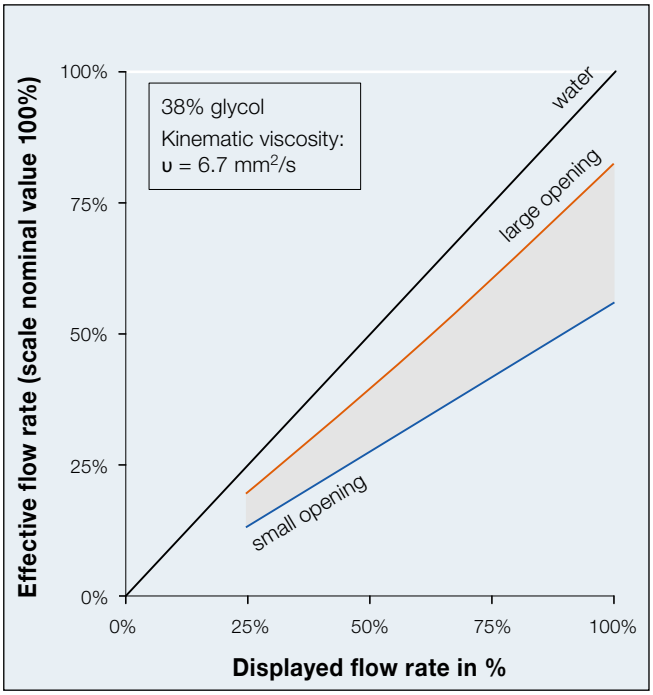
Code no.	G × R	pipe thread	
210.6221.000	¾" × ½"	Thread ½" eurocone	SETTER Inline DN 15
210.6632.000	1" × ¾"	Thread ¾" flat sealing	SETTER Inline DN 20
210.6222.000	¾" × ½"	Thread ½" self-sealing	SETTER Inline DN 15

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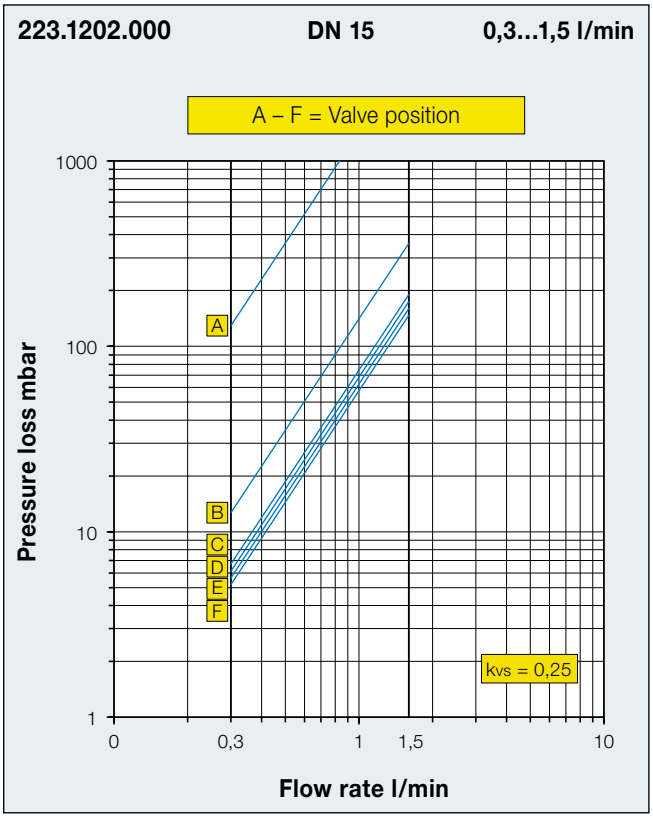
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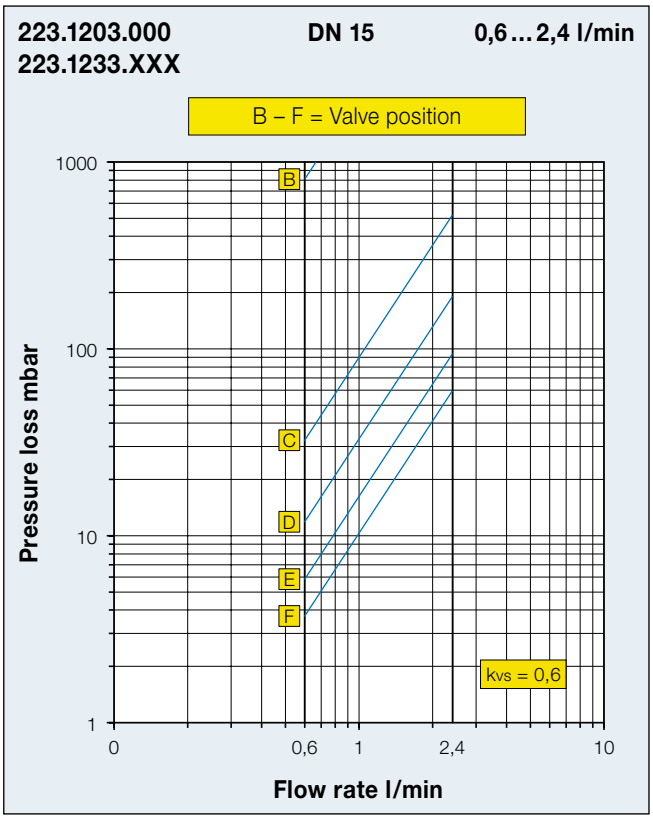
Correction curve water-glycol

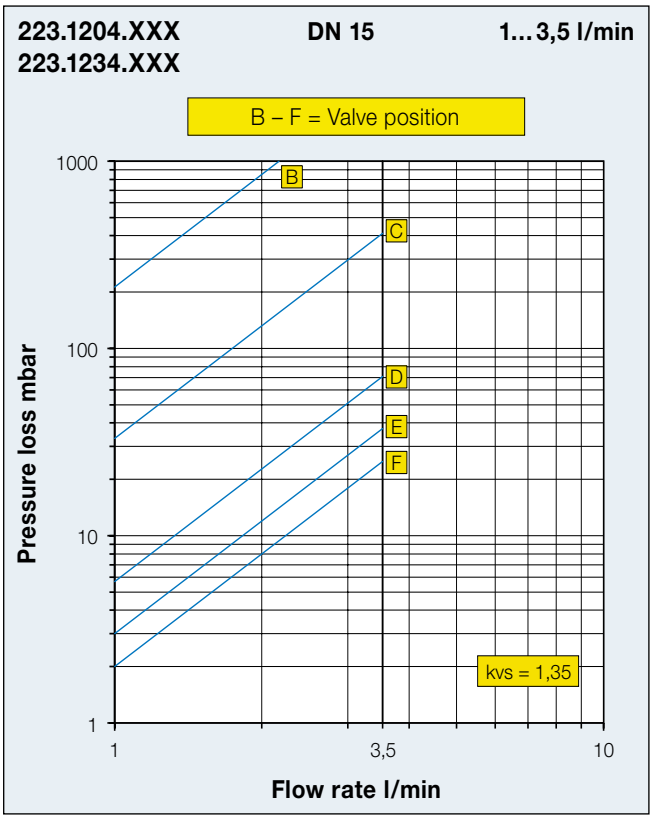
Simplified representation for Setter Inline in medium flow rate range.
Specific diagrams available for each Setter type



Pressure loss diagrams





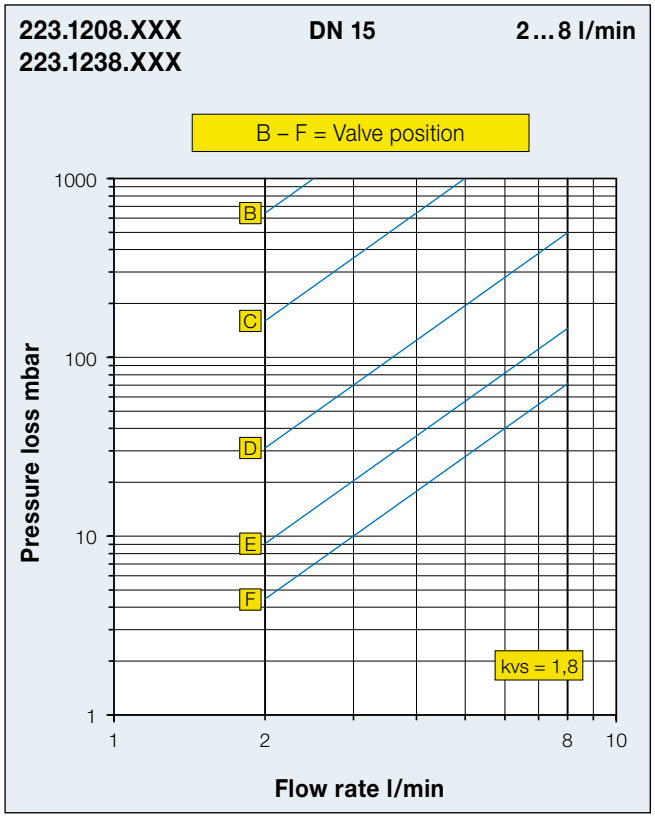


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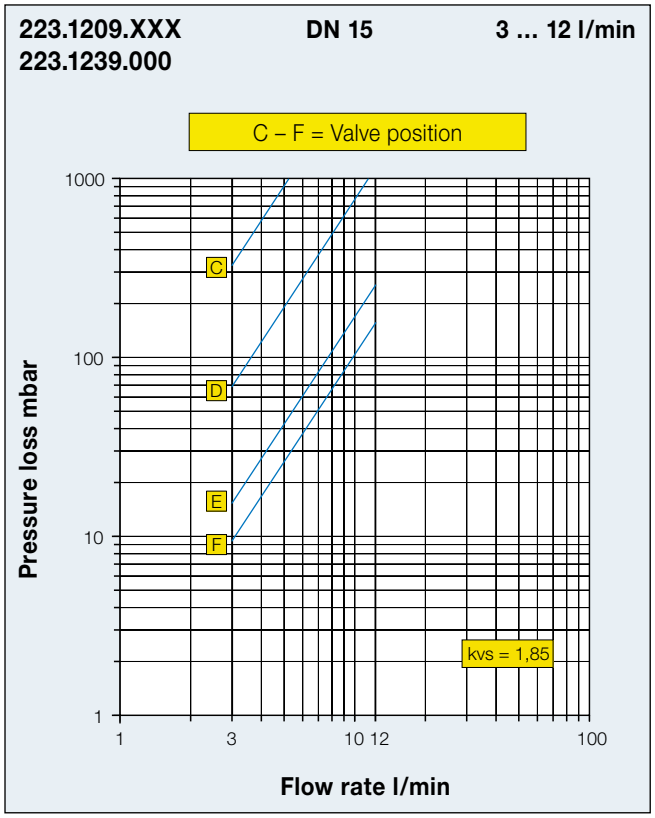
AV 23 SETTER Inline

Pressure loss diagrams

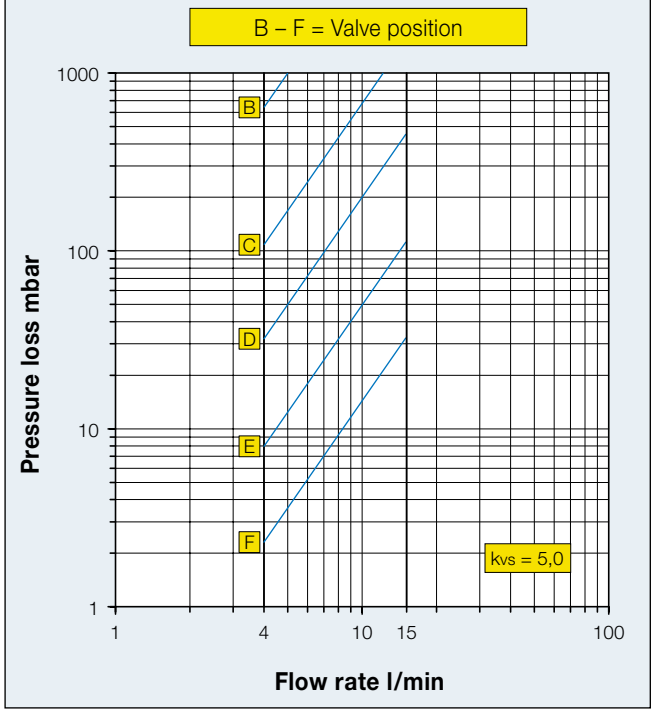
223.1208.XXX **DN 15** **2…8 l/min**
223.1238.XXX



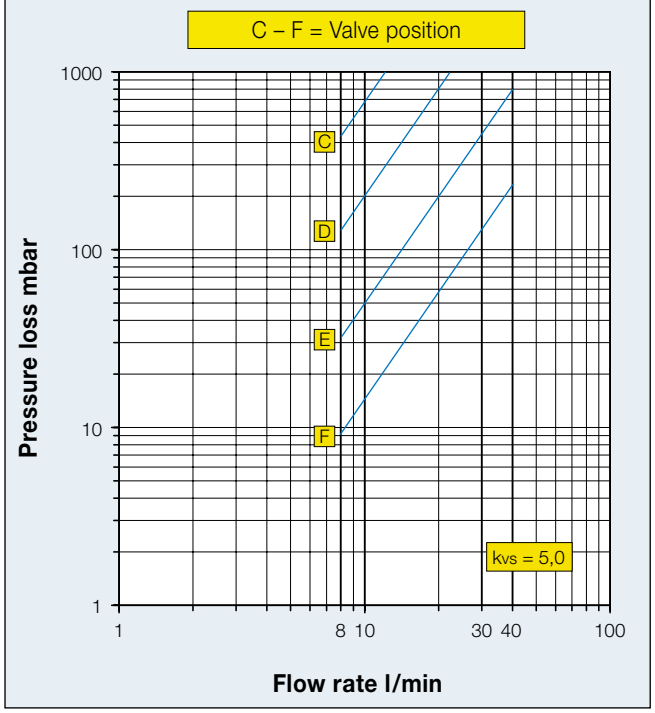
223.1209.XXX **DN 15** **3 … 12 l/min**
223.1239.000



223.1300.000 **DN 20** **4…15 l/min**



223.1302.000 **DN 20** **8…30 l/min**
223.1305.000 **DN 20** **10…40 l/min**



Subject to modification. A-SI 07/2010 pdf e

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