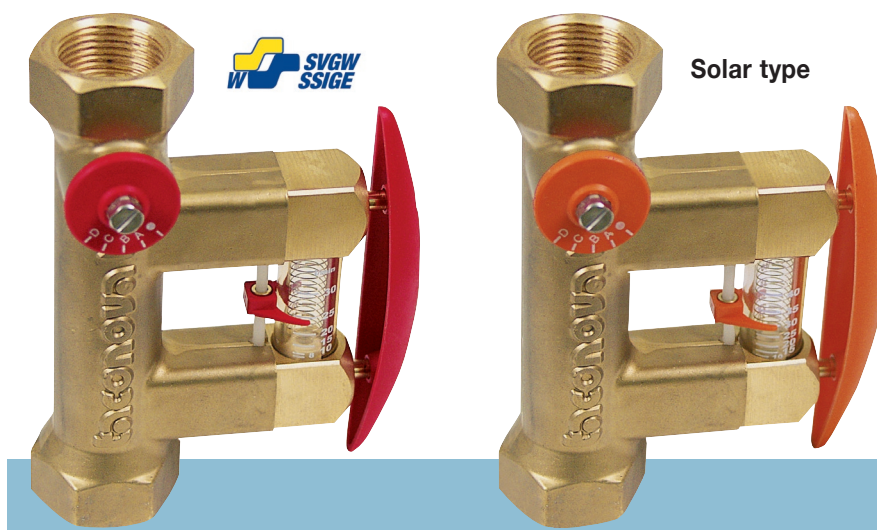


AV 23 SETTER Bypass SD

Female thread – connection

taconova



new

Application

Direct regulation, indication and isolation of flows in systems

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.

The solar type is designed for higher operating temperatures.

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.

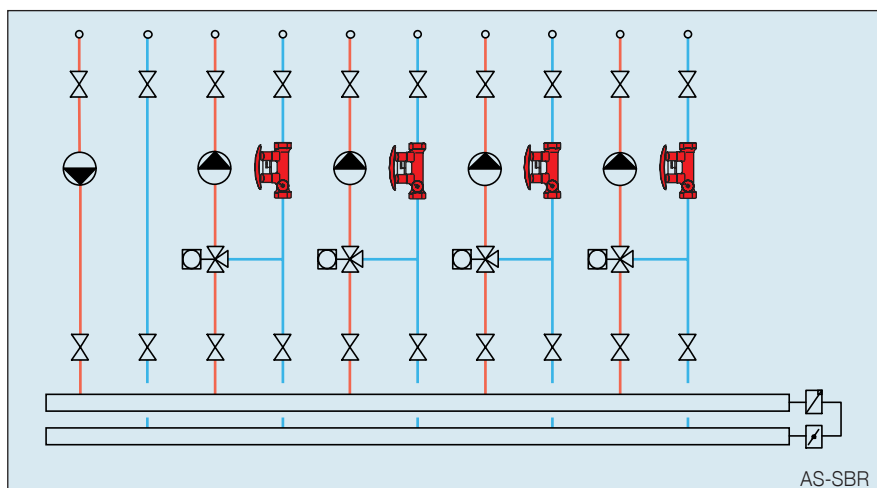
With SETTER Bypass SD balancing valves, any qualified fitter can set the appropriate flow rate using the unique flow measurement device, avoiding investments in training and costly measuring devices.

Installation

The SETTER Bypass SD requires a straight section of pipe of the same length and diameter as the system. 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 fast balancing without diagrams, tables or measuring devices
- Direct reading of adjusted flow rate in l/min
- High accuracy of measurement in the optimal flow range
- Flow control by means of set point slide
- Balancing valve with adjustment scale
- Balancing valve with isolating facility
- Installation in any position
- Maintenance free
- Low pressure loss
- **Replace measuring cylinder unit at full system pressure**
- **Saving of an additional shutoff device**



Operation

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

The reading position is the bottom line of the baffle float.

The measuring device is placed in a bypass to the main flow, isolated from system flow.

By demand the bypass, with self locking valves, gets opened / closed by pressing / releasing the clamp.

Reading the flow rate has no influence on the main flow rate.

AV 23 SETTER Bypass SD



Female thread – connection

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

k_{vs} value and measurement range see "Valve Program".
Housing material: brass
Inside materials: stainless steel, brass, plastic
Sight glass material: heat- and impact resistant plastic
Seals material: EPDM
Female thread to DIN 2999/ISO 7.

Setter Bypass SD

Max. operating temperature 100 °C
Max. operating pressure: 10 bar
Measuring accuracy:

- Measurement range 20 to 80%
= ±5% of the indicated value
- Measurement range up to 20% and over 80%
= ±10% of the indicated value

Setter Bypass SD SOLAR

Max. operating parameters see following page: pressure temperature curve
Measuring accuracy:

- Measurement range 0% to 25%
= ±20% of the indicated value
- Measurement range 25 to 100%
= ±10% of the indicated value

Fluids

- Heating water
- Cooling water
- Potable water (SETTER Bypass SD with SVGW-certificate)
- Water and proprietary additives used against corrosion and freezing (see document "Correction curves")

Male thread connections type

(see separate data sheet)

Valve program for SETTER Bypass SD

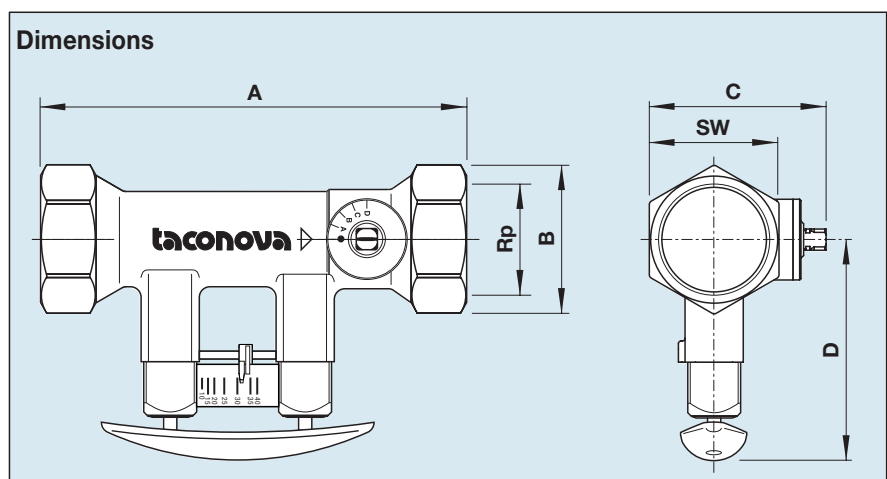
Code No.	DN	Rp x Rp	Measurement range	k_{vs} (m ³ /h)
223.2262.000	15	½" x ½"	2 – 8 (l/min)	1.95
223.2360.000	20	¾" x ¾"	4 – 15 (l/min)	3.3
223.2362.000	20	¾" x ¾"	8 – 30 (l/min)	5.0
223.2460.000	25	1" x 1"	6 – 20 (l/min)	5.1
223.2461.000	25	1" x 1"	10 – 40 (l/min)	8.1
223.2561.000	32	1¼" x 1¼"	20 – 70 (l/min)	17.0
223.2661.000	40	1½" x 1½"	30 – 120 (l/min)	30.0
223.2861.000	50	2" x 2"	50 – 200 (l/min)	54.0

Valve program for SETTER Bypass SD SOLAR

Code No.	DN	Rp x Rp	Measurement range	k_{vs} (m ³ /h)
223.2380.000	20	¾" x ¾"	2 – 12 (l/min)	2.2
223.2381.000	20	¾" x ¾"	8 – 20 (l/min)	5.0
223.2482.000	25	1" x 1"	10 – 40 (l/min)	8.1

Dimensions table

Code No.	DN	A	B	C	D	SW	Rp
223.2262.000	15	142	39	46	79	34	½"
223.2360.000	20	129	39	46	79	34	¾"
223.2362.000	20	129	39	46	79	34	¾"
223.2460.000	25	152	47	58	82	41	1"
223.2461.000	25	152	47	58	82	41	1"
223.2561.000	32	161	56	65	84	49	1¼"
223.2661.000	40	173	64	79	90	59	1½"
223.2861.000	50	197	76	91	97	70	2"
223.2380.000 (Solar)	20	129	39	46	79	34	¾"
223.2381.000 (Solar)	20	129	39	46	79	34	¾"
223.2482.000 (Solar)	25	152	47	58	82	41	1"

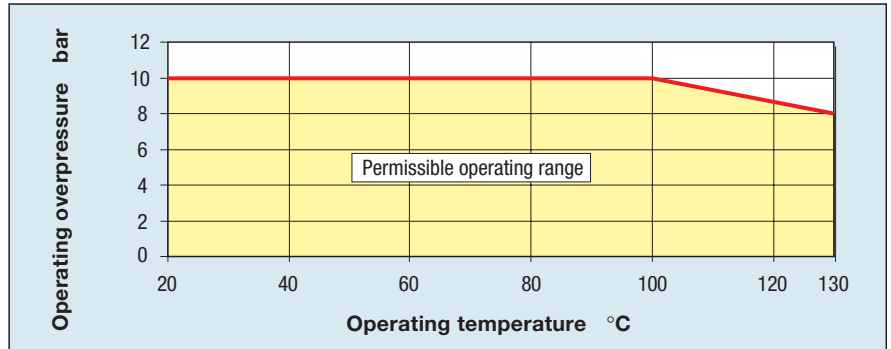


AV 23 SETTER Bypass SD

Female thread – connection



Pressure-temperature curve for SETTER Bypass SD SOLAR



Accessories



AX 96 Isolation box made of EPS/PPE, Max. operating temperature 95°C

Code No.

Fits to Setter Bypass SD

296.2321.003

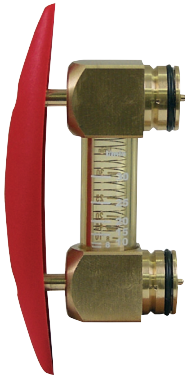
DN 15 and DN 20

296.2322.003

DN 25

296.2323.003

DN 32



AY 98 Bypass SD spare part kit

Code No.

Version l/min

Fits to

P/u

298.2333.020

2 – 8

223.2262.000

1

298.2334.020

4 – 15

223.2360.000

1

298.2335.020

8 – 30

223.2362.000

1

298.2342.020

6 – 20

223.2460.000

1

298.2343.020

10 – 40

223.2461.000

1

298.2352.020

20 – 70

223.2561.000

1

298.2362.020

30 – 120

223.2661.000

1

298.2382.020

50 – 200

223.2861.000

1

298.2336.020

2 – 12

(Solar) 223.2380.000

1

298.2337.020

8 – 20

(Solar) 223.2381.000

1

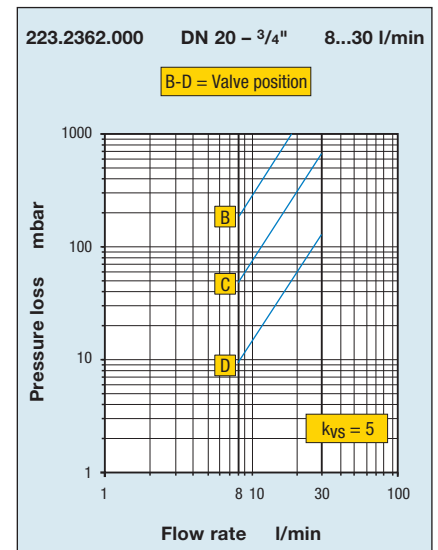
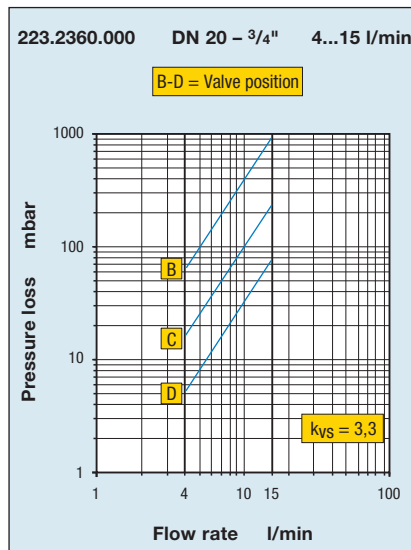
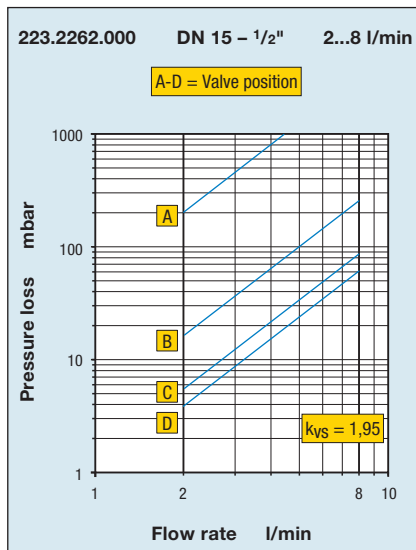
298.2344.020

10 – 40

(Solar) 223.2482.000

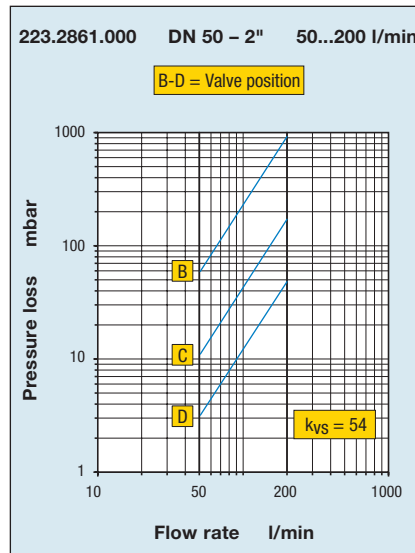
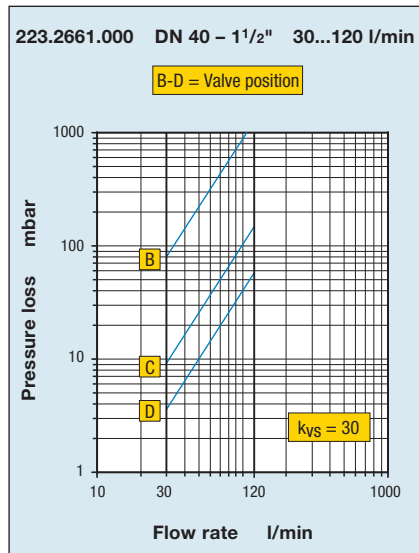
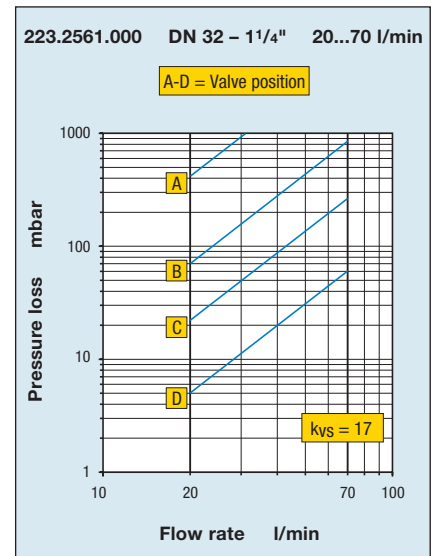
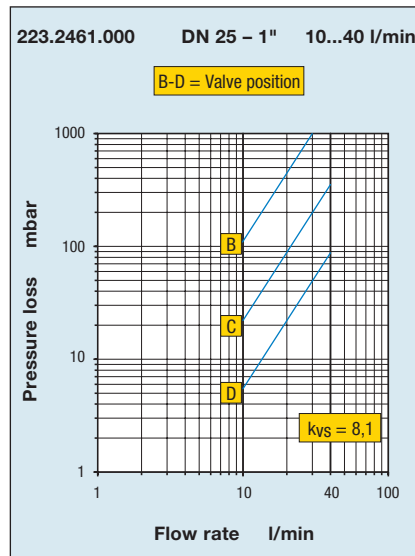
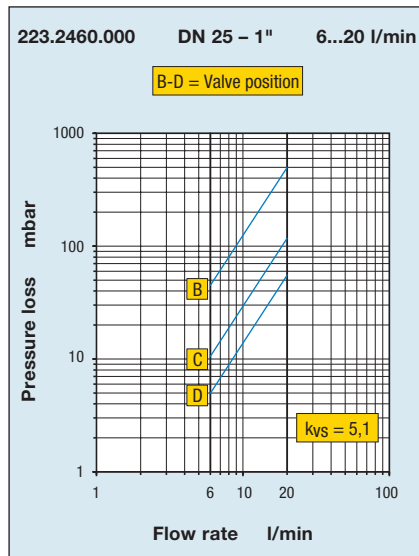
1

Diagrams SETTER Bypass SD

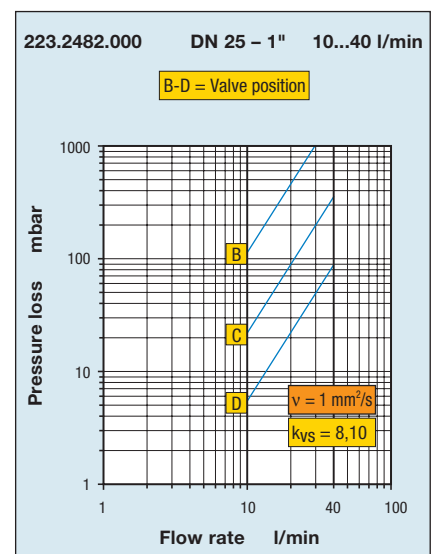
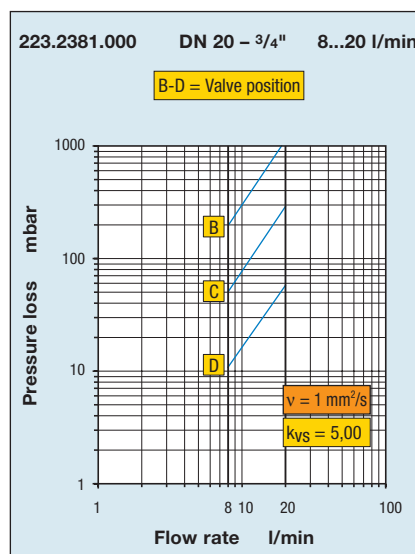
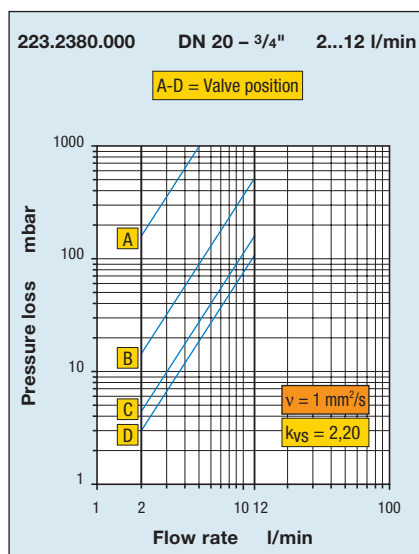


Continuation see next page.

Diagrams SETTER Bypass SD (Continuation)



Diagrams SETTER Bypass SD SOLAR



Subject to modification. A-SBR 09/04-1500e