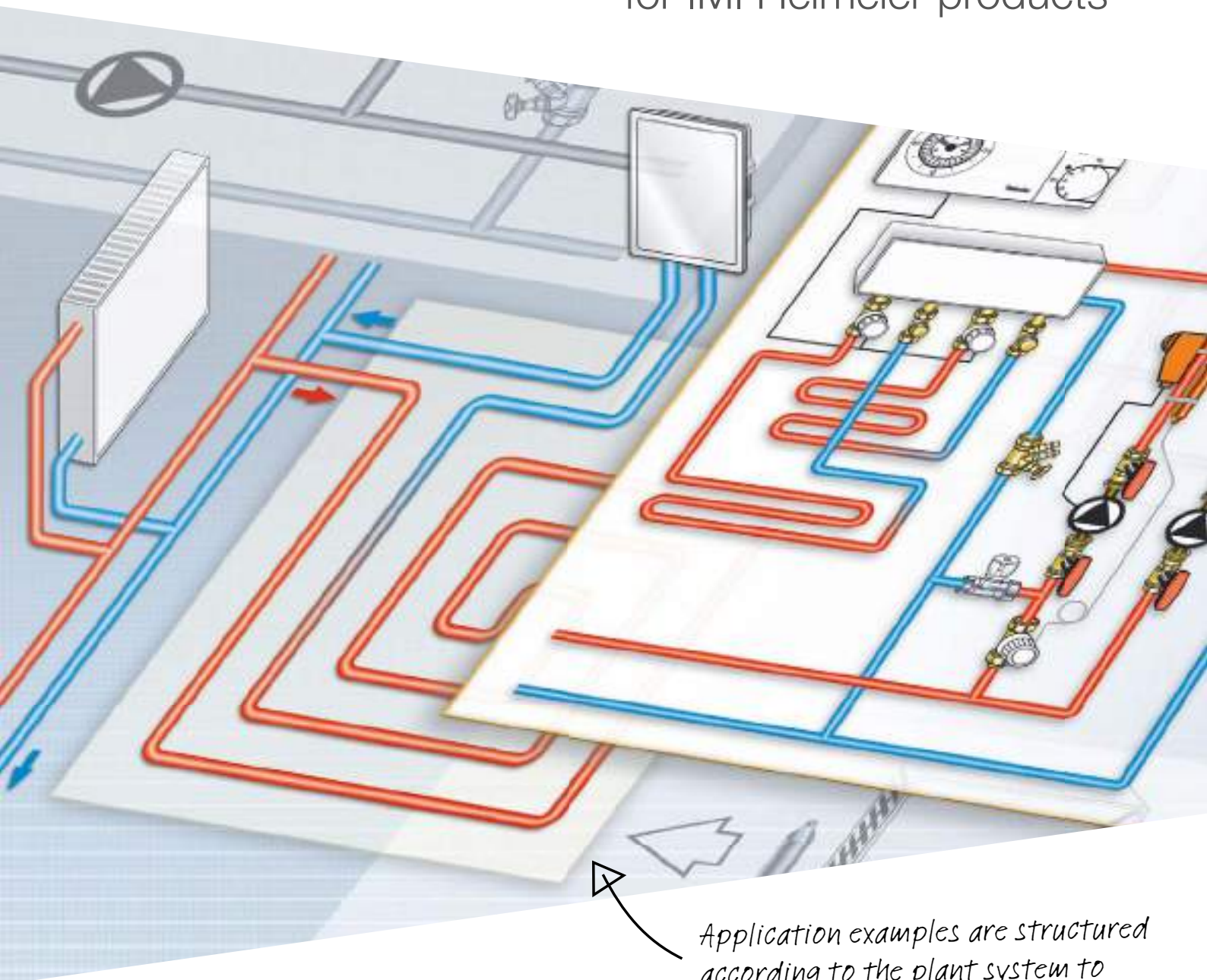


Applications technology

for IMI Heimeier products

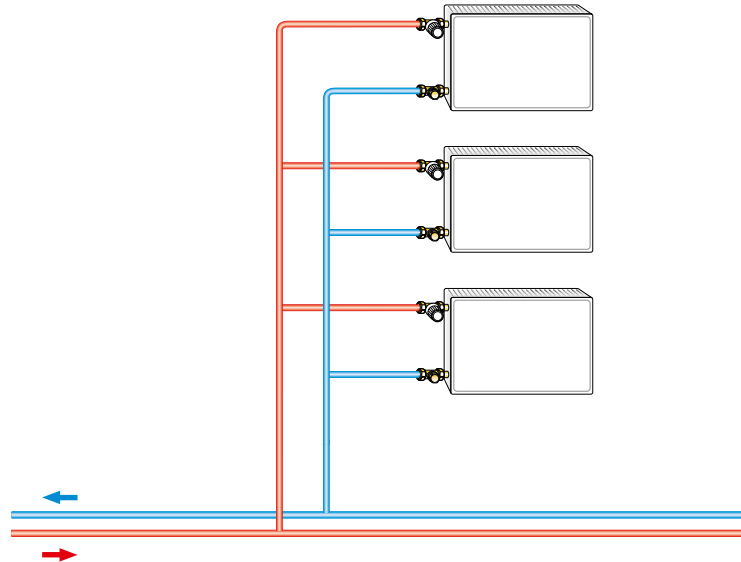


Application examples are structured according to the plant system to facilitate the product selection

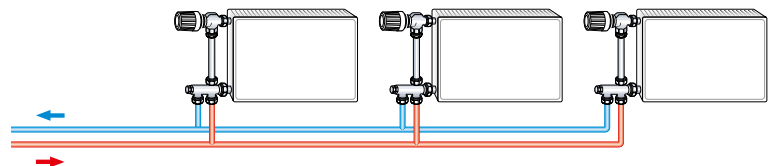
Two-pipe heating systems

Application overview

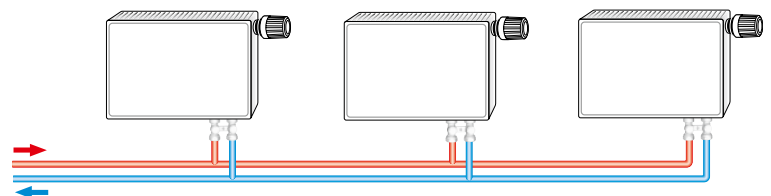
Conventional, vertically



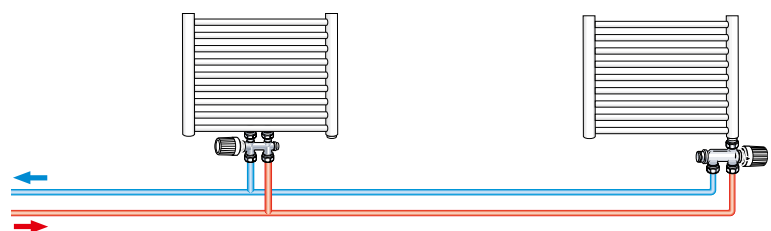
Valve connection sets



Radiators with integrated valves



Radiators with lower single and two-point connection



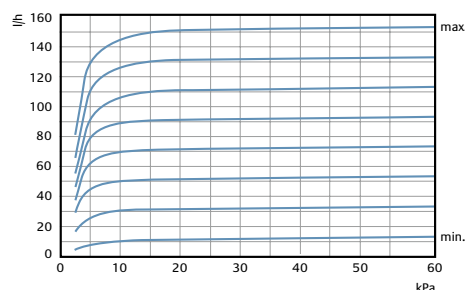


A-exact

Thermostatic valve body with automatic flow control

The thermostatic radiator valve A-exact is applied in two-pipe pumped heating system with normal to high temperature spread.

The required design flow for each radiator is set directly on the A-exact. This automatic flow control is done with a twist and the adjusted flow will then not be exceeded. Even if there is an oversupply of pressure, due to load changes in the system, for example other valves closing or during morning start up. A-exact will guarantee the requested flow.



Renovation

A-exact replaces old valves easily due to dimensions according to EN 215 standard.

Noise behaviour

To ensure low-noise performance, the following conditions must be met:

- The differential pressure above A-exact should not exceed 60 kPa = 600 mbar = 0,6 bar.
- Flow must be correctly adjusted.
- The system must be completely deaerated.

Your advantages:

- Automatic hydronic balancing
- Optimal for renovation

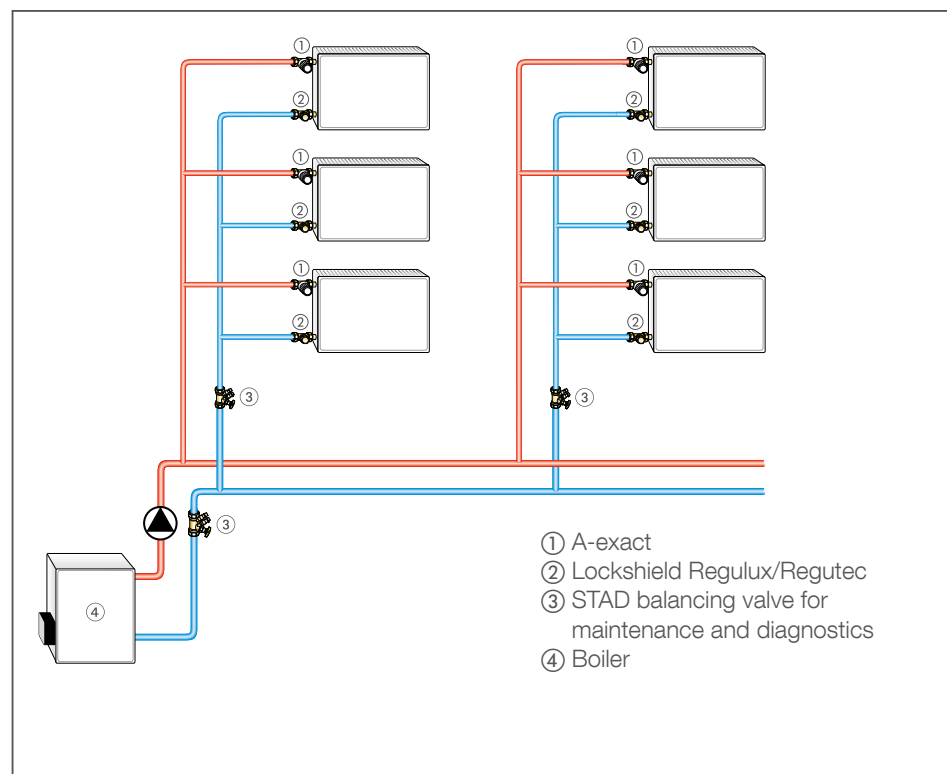
A-exact

orange protection cap



- Time saving in mounting and balancing
- Pre-setting directly at the valve

Application example



Max. differential pressure: 60 kPa
Min. differential pressure:
10 – 100 l/h = 10 kPa
100 – 150 l/h = 15 kPa

Article numbers

A-exact

Angle	Flow range [l/h]	Article No
DN 10 (3/8")	10-150	3911-01.000
DN 15 (1/2")	10-150	3911-02.000
DN 20 (3/4")	10-150	3911-03.000
with male thread G 3/4		
DN 15 (1/2")	10-150	3919-02.000

Straight

DN 10 (3/8")	10-150	3912-01.000
DN 15 (1/2")	10-150	3912-02.000
DN 20 (3/4")	10-150	3912-03.000
with male thread G 3/4		
DN 15 (1/2")	10-150	3920-02.000

Axial

DN 10 (3/8")	10-150	3910-01.000
DN 15 (1/2")	10-150	3910-02.000

Setting key

3901-02.142

Compression fittings for plastic, copper, precision steel or multi layer pipe, see page 89.

V-exact II

Thermostatic valve body with stepless precision presetting

The thermostatic valve body V-exact II is applied in two-pipe pumped hot-water heating system with normal to high temperature spread, as well as in cooling systems. The valve has a wide flow range as well as optimised noise behaviour and very tight flow tolerances.

In extensive systems, even water distribution should be maintained not only during specified normal operation, but also after a drop in room temperature or a break in operations, in order to avoid under or over-supply to parts of the system. To achieve this, the valve characteristic is designed so that the radiator mass-flow does not exceed about 1.3 times the nominal flow even at Preset 8 and with a fully-open valve.

Corresponding to the standards EnEV and DIN V 4701-10, V-exact II thermostatic valve bodies can be designed with a p-band of up to max. 1 K or max. 2 K.

Noise behaviour

To ensure low-noise performance, the following conditions must be met:

- On the basis of experience, the differential pressure over the thermostatic valves should not exceed about 20 kPa = 200 mbar = 0.2 bar. If in designing the system, higher transient differentials might be experienced in the part-load flow range, differential pressure control equipment such as a STAP Differential Pressure Controller or Hydrolux bypass valves can be used (see diagram for noise characteristic curve).
- Mass-flow must be correctly adjusted.
- The system must be completely deaerated.

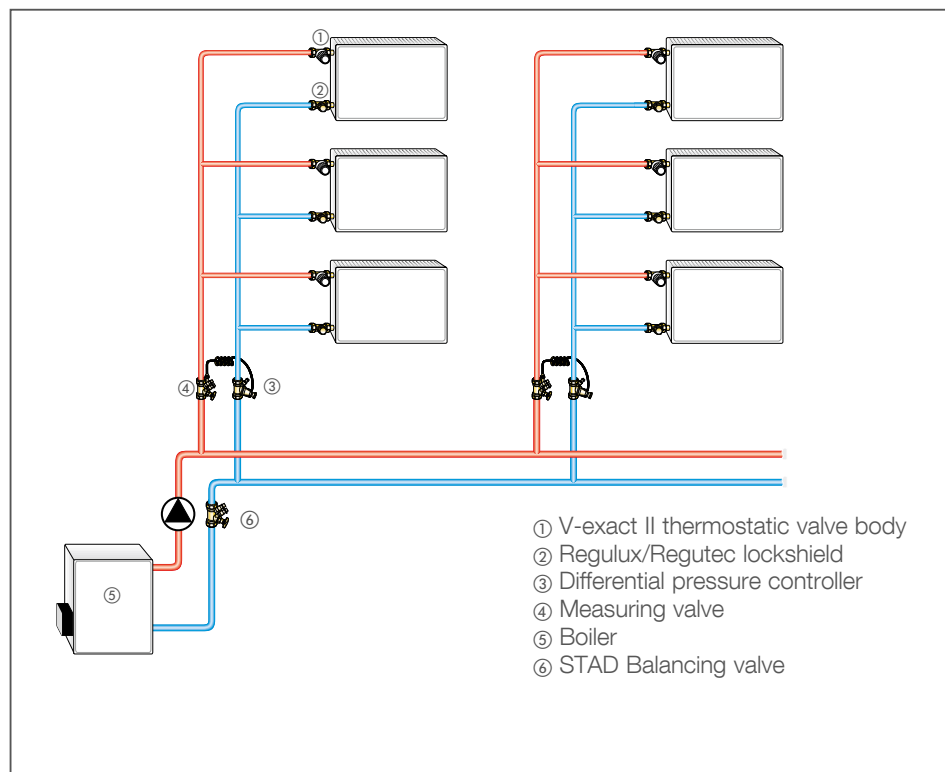
V-exact II

white protection cap



Setting key

Application example



Kv = m³/h at a pressure drop of 1 bar with thermostatic head. P-band max. 2 K.
Kvs = m³/h at a pressure drop of 1 bar and fully open valve.

Article numbers

V-exact II

Angle	Kv	Kvs	Article No
DN 10 (3/8")	0,67	0,86	3711-01.000
DN 15 (1/2")	0,67	0,86	3711-02.000
DN 20 (3/4")	0,67	0,86	3711-03.000
Press connection:			
DN 15 (1/2")	0,67	0,86	3717-15.000

Straight

DN 10 (3/8")	0,67	0,86	3712-01.000
DN 15 (1/2")	0,67	0,86	3712-02.000
DN 20 (3/4")	0,67	0,86	3712-03.000
Press connection:			
DN 15 (1/2")	0,67	0,86	3718-15.000

Axial

DN 10 (3/8")	0,67	0,86	3710-01.000
DN 15 (1/2")	0,67	0,86	3710-02.000

Double angle, left

DN 10 (3/8")	0,67	0,86	3713-01.000
DN 15 (1/2")	0,67	0,86	3713-02.000

Double angle, right

DN 10 (3/8")	0,67	0,86	3714-01.000
DN 15 (1/2")	0,67	0,86	3714-02.000

Setting key

4360-00.142

Additional models approx. with male thread G 3/4 or with reduced lengths, see technical brochure „V-exact II“. Compression fittings for plastic, copper, precision steel or ultra layer pipe, see page 89.

Standard

Thermostatic valve bodies without presetting

The Standard thermostatic valve bodies are used in two-pipe pump heating systems with normal temperature spread.

Corresponding to the standards EnEV and DIN V 4701-10, the valve bodies can be designed with a p-band from 1 K to 2 K thus enabling a broad flow spectrum. A hydraulic balance, which is an additional requirement, can be reached with the appropriate lockshields e. g. IMI Heimeier Regulux.

Noise behaviour

To ensure low-noise performance, the following conditions must be met:

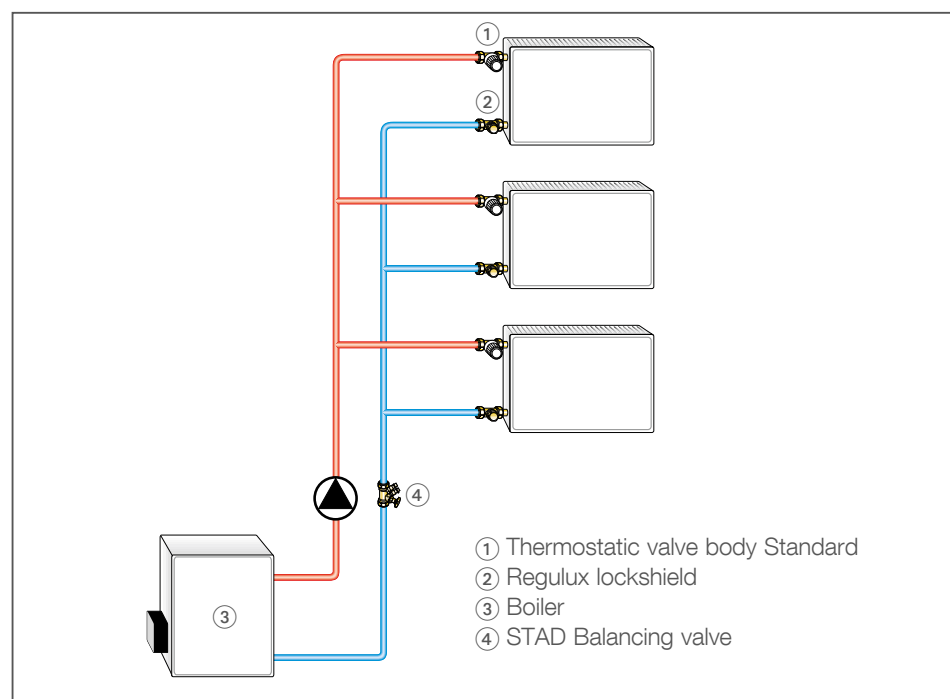
- On the basis of experience, the differential pressure over the thermostatic valves should not exceed about 20 kPa = 200 mbar = 0.2 bar. If in designing the system, higher transient differentials might be experienced in the part-load flow range, differential pressure control equipment such as a STAP Differential Pressure Controller or Hydrolux bypass valves can be used.
- Mass-flow must be correctly adjusted.
- The system must be completely deaerated.

Standard

black protection cap



Application example



K_v = m³/h at a pressure drop of 1 bar with thermostatic head. P-band 2 K.

K_{vs} = m³/h at a pressure drop of 1 bar and fully open valve.

Article numbers

Standard

Angle	K_v	K_{vs}	Article No
DN 10 (3/8")	0,79	2,00	2201-01.000
DN 15 (1/2")	0,79	2,00	2201-02.000
press connection			
DN 15 (1/2")	0,79	2,00	2291-15.000
DN 20 (3/4")	0,79	2,50	2201-03.000
DN 25 (1")	1,35	5,70	2201-04.000
DN 32 (1 1/4")	1,60	6,70	2201-05.000

Straight

DN 10 (3/8")	0,79	1,50	2202-01.000
DN 15 (1/2")	0,76	2,00	2202-02.000
press connection			
DN 15 (1/2")	0,79	2,00	2292-15.000
DN 20 (3/4")	0,79	2,50	2202-03.000
DN 25 (1")	1,35	5,70	2202-04.000
DN 32 (1 1/4")	1,60	6,70	2202-05.000

Axial

DN 10 (3/8")	0,79	1,50	2225-01.000
DN 15 (1/2")	0,79	1,50	2225-02.000

Double angle, left

DN 10 (3/8")	0,79	1,30	2311-01.000
DN 15 (1/2")	0,79	1,50	2311-02.000

Double angle, right

DN 10 (3/8")	0,79	1,30	2310-01.000
DN 15 (1/2")	0,79	1,50	2310-02.000

Additional models approx. with male thread G 3/4, flat sealing or with reduced lengths, see technical brochure „Thermostatic valve bodies“. Compression fittings for plastic, copper, precision steel or multi layer pipe, see page 89.

With particularly low resistance

Thermostatic valve bodies without presetting

The thermostatic valve bodies with particularly low resistance are used e. g. in two-pipe low temperature heating systems with a small temperature spread and conventional single pipe heating systems (see also page 36).

Corresponding to the standards EnEV and DIN V 4701-10, the valve bodies can be designed with a p-band from 1 K to 2 K thus enabling a broad flow spectrum. A hydraulic balance, which is an additional requirement, can be reached with the appropriate lockshields e. g. IMI Heimeier Regulux.

Noise behaviour

To ensure low-noise performance, the following conditions must be met:

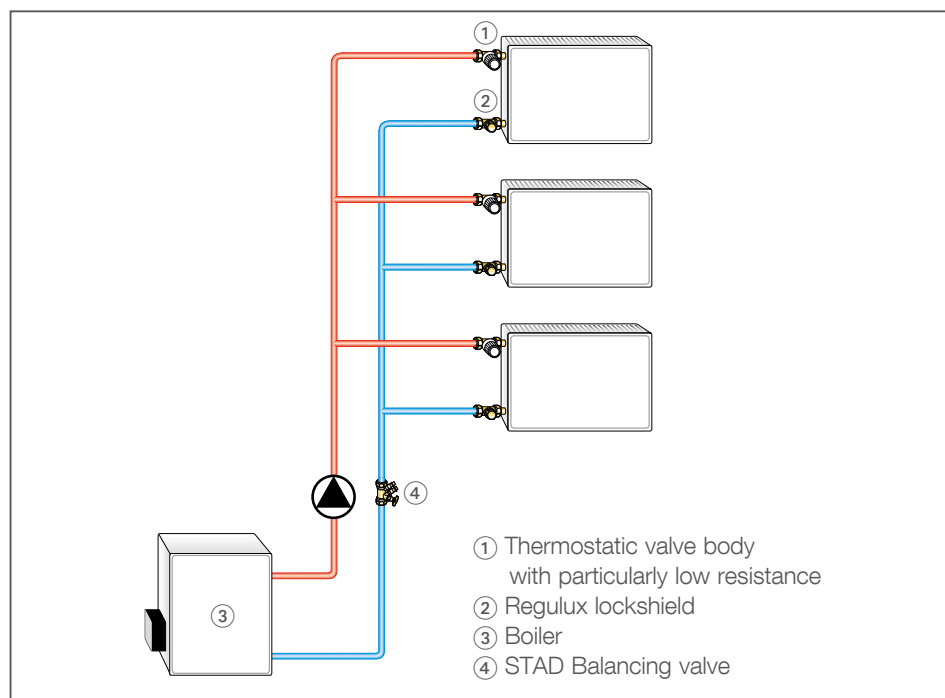
- On the basis of experience, the differential pressure over the thermostatic valves should not exceed about 20 kPa = 200 mbar = 0.2 bar. If in designing the system, higher transient differentials might be experienced in the part-load flow range, differential pressure control equipment such as a STAP Differential Pressure Controller or Hydrolux bypass valves can be used.
- Mass-flow must be correctly adjusted.
- The system must be completely deaerated.

With particularly low resistance

blue protection cap



Application example



$K_v = m^3/h$ at a pressure drop of 1 bar with thermostatic head. P-band 2 K.
 $K_{vs} = m^3/h$ at a pressure drop of 1 bar and fully open valve.

Article numbers

With particularly low resistance

Angle	K_v	K_{vs}	Article No
DN 10 (3/8")	0,92	2,30	2241-01.000
DN 15 (1/2")	0,92	3,10	2241-02.000
DN 20 (3/4")	1,35	5,70	2241-03.000
DN 25 (1")	1,35	5,70	2201-04.000
DN 32 (1 1/4")	1,60	6,70	2201-05.000

Straight

DN 10 (3/8")	0,92	1,80	2242-01.000
DN 15 (1/2")	0,92	2,50	2242-02.000
DN 20 (3/4")	1,35	4,50	2242-03.000
DN 25 (1")	1,35	5,70	2202-04.000
DN 32 (1 1/4")	1,60	6,70	2202-05.000

Axial

DN 10 (3/8")	0,92	1,80	2245-01.000
DN 15 (1/2")	0,92	2,50	2245-02.000

Double angle, left

DN 10 (3/8")	0,92	1,50	2341-01.000
DN 15 (1/2")	0,92	1,85	2341-02.000

Double angle, right

DN 10 (3/8")	0,92	1,50	2340-01.000
DN 15 (1/2")	0,92	1,85	2340-02.000

Additional models approx. with male thread G 3/4, flat sealing or with reduced lengths, see technical brochure „Thermostatic valve bodies“. Compression fittings for plastic, copper, precision steel or multi layer pipe, see page 89.

EMO T, EMO TM and EMOTec

Thermal actuators for heating, ventilation and air-conditioning systems

EMO T and EMO TM

The EMO T and EMO TM thermal actuators can be installed in temperature and/or time-related 2-point control systems (EMO T) or proportional control systems (EMO TM) in, for example:

Heating installations

For floor, ceil, and radiator heating systems for individual room temperature control or group control in:

- apartments, conference rooms, storage rooms, schools, etc.
- For reverse switching, mass flow control, etc.

Ventilation installations

For room temperature control, e.g. controlling the flow of hot water through the air heaters.

Air conditioning systems

For room temperature control, e.g. regulating the flow of cold water from fan-coil units, ceil cooling systems, etc.

The Position indicator visible from all sides for straightforward maintenance.

Suitable for all IMI Heimeier Thermostatic valve bodies, Three-way-mixing valves, Three-way-reversing valves and IMI TA TBV-C, TBV-CM, TBV-CMP, TA-COMPACT T and TA-COMPACT-P valves. Also for floor heating manifold with M 30 x 1,5 connection.

EMOTec

The EMOTec thermal actuator can be installed in temperature and/or time-related 2-point control systems, especially for floor heating.

The position indicator with model NC enables simple functional testing, e.g. during the mounting of the actuator on heating manifolds.

Depending on the operating conditions to be fulfilled, EMOTec can also be used in other applications in heating, ventilation and air-conditioning systems.

Suitable for all IMI Heimeier Thermostatic valve bodies, Three-way-mixing valves, Three-way-reversing valves and floor heating manifolds with M 30 x 1,5 connection.

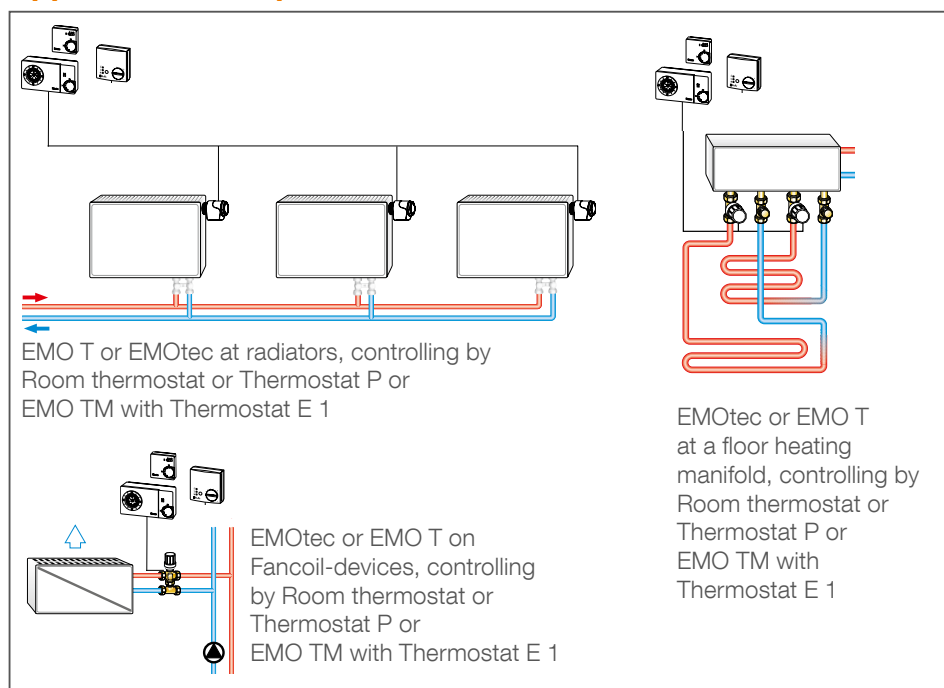
EMO T / EMO TM



EMOTec



Application example



Article numbers

EMO T two-point actuator	Article No
Normally closed (NC)	
230 V	
1 m	1833-00.500
24 V	
1 m	1843-00.500
Normally open (NO)	
230 V	
1 m	1837-00.500
24 V	
1 m	1847-00.500
EMO TM proportional actuator	
Normally closed (NC)	
24 V	
1 m	1833-00.500
EMOTec two-point actuator	
Normally closed (NC)	
230 V	
1 m	1807-00.500
24 V	
1 m	1827-00.500
Normally open (NO)	
230 V	
1 m	1809-00.500
24 V	
1 m	1829-00.500

Cable lengths 2 m and 5 m for EMO T and EMO TM see corresponding leaflet or www.imihydronic.com

EMO 1, EMO 3, EMO 3/230

Motorized proportional and three-point actuators

These motorized actuators **EMO 1** and **EMO 3** are designed to be mounted on thermostatic valve bodies and are installed in heating, ventilation, and air conditioning systems in conjunction with corresponding controllers, e.g. IMI Heimeier Thermostat E.

Even with strict requirements for precision or with process controlled systems with high severity, optimal results can be achieved.

As a result of the extremely low power draw for the actuator, broadly branched networks, e.g. for centralized control and control systems (building automation), can be installed with minimal cable sections.

In the area of room temperature control, motorized actuators are used, for example, on radiators and convectors, heating manifolds for floor heating systems, ceil cooling systems and radiant heating systems as well as on Fancoil units and induction devices in two and four-wire networks.

The actuator **EMO 3/230** works ideally in supply pipe temperature control in heating systems. Its standard input signal "three-point 230 V" is compatible with most boiler control systems. It is the perfect actuator in connection with e.g. IMI Heimeier three-way mixing valves.

Suitable for all IMI Heimeier Thermostatic valve bodies, Three-way-mixing valves, Three-way-reversing valves and IMI TA TBV-C, TBV-CM, TBV-CMP, TA-COMPACT T and TA-COMPACT-P valves. Also for floor heating manifolds with M 30 x 1,5 connection.

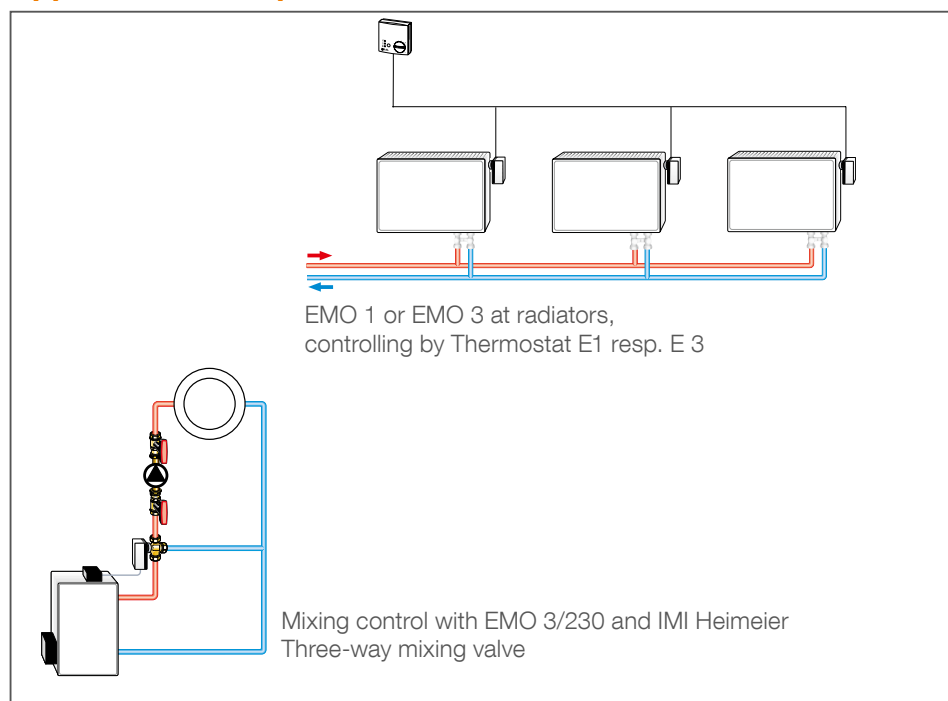
EMO 1



EMO 3



Application example



Article numbers

EMO 1	Article No
0 – 10 V DC	1860-00.500
10 – 0 V DC	1861-00.500
10 – 2 V DC	1863-00.500
EMO 3	
24 V	1880-00.500
EMO 3/230	
230 V	1881-00.500

Three-way reversing valve

For heating and cooling systems

Function

For two-point control, the EMO T / EMOtec thermal actuator is installed (currentless open model). If there is no voltage present, the straight passage of the three-way reversing valve is opened and the angled exit closed. During switching, there are no resulting pressure surges in the system.

If thermostatic heads are installed, the valve may also operate in intermediate positions. As the temperature increases, the straight passage is closed and the angled exit opened.

For proportional or three point control, the actuators EMO 1, EMO TM EMO EIB, EMOLON or EMO 3 are installed.

Applications

- Output control of heat exchangers via flow rate control, e. g. for air heaters, coolers or other heat exchangers. Volume flow remains steady in the primary circuit.
- Switching between heat consuming apparatuses such as the heating circuit and heater for potable water or between various heat generating devices such as boilers, heat pumps, or solar energy systems.
- Mixing control through installation in the return pipe (external mixing point). Approximately equal volume flow in the secondary circuit.

Connection nipples and compression fittings, see pages 89 and 90.

Article numbers

Three-way reversing valve

Flat sealing	Kvs	Article No
DN 15 (1/2")	2,47	4160-02.000
DN 20 (3/4")	3,48	4160-03.000
DN 25 (1")	5,12	4160-04.000

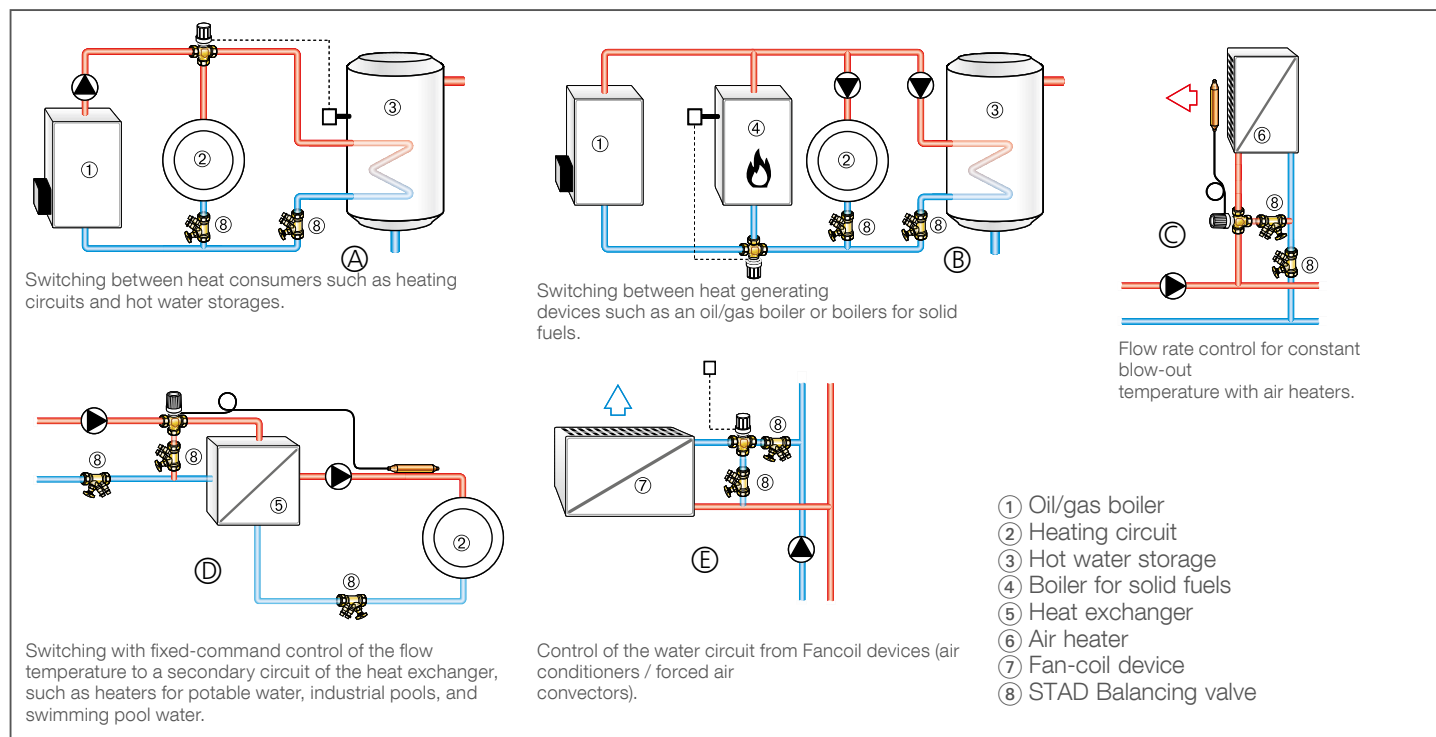
Flat sealing	Kvs	Article No
DN 15 (1/2") with T-piece	2,25	4162-02.000

Conically sealing	Kvs	Article No
DN 15 (1/2") without with compression fittings for copper pipe, 15 mm	2,47	4161-15.000

Conically sealing	Kvs	Article No
DN 15 (1/2") without compression fittings	2,47	4161-02.000



Application examples



Kvs = m³/h at a pressure drop of 1 bar.

Three-way mixing valve

with or without presetting, for heating and cooling systems

Function

Thermostatic heads are used for proportional control without auxiliary power. When the temperature rises, the angled B-AB passage is closed, and the straight A-AB passage is opened.

The EMO 1, EMO TM, EMO EIB, EMOLON, and/or EMO 3 / EMO 3/230 actuators are used for proportional and/or three-point control with auxiliary power.

The EMO T / EMOtec thermal actuator is used for two-point control with auxiliary power.

In the model **normally open (NO)**, the angled B-AB passage is open without , and the straight A-AB passage is closed without current.

In the model, **normally closed (NC)**, the angled B-AB passage is closed without current, and the straight A-AB passage is open without current.

The models with **continuously adjustable presetting** enable the adjustment of the necessary volume flow in the AB outlet. To preset, the setting key is slipped onto the valve insert, and the desired value is set. The setting values are displayed on the front of the valve insert. Without an instrument, the presetting cannot be manipulated by unauthorised persons.

Applications

Mixing function

Admixture control in heating or cooling systems. Variable volume flow in the primary circuit. Constant volume flow in the secondary circuit.

Distributing function

Power control in heating or cooling systems by means of flow rate control. Constant volume flow in the primary circuit. Variable volume flow in the secondary circuit.

Connection nipples and compression fittings, see pages 89 and 90.

Three-way mixing valve without presetting



with presetting



Article numbers

Three-way mixing valve without presetting

Flat sealing	Kvs	Article No
DN 15 (1/2")	2,50	4170-02.000
DN 20 (3/4")	3,50	4170-03.000
DN 25 (1")	4,60	4170-04.000
DN 32 (1 1/4")	6,40	4170-05.000

Flat sealing with T-piece

DN 15 (1/2")	2,50	4172-02.000
DN 20 (3/4")	3,50	4172-03.000

Conically sealing

DN 15 (1/2") without compression fittings	2,50	4171-02.000
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with presetting

Flat sealing	Kvs	Article No
DN 15 (1/2")	1,10	4175-02.000
DN 20 (3/4")	2,11	4175-03.000

Flat sealing

DN 15 (1/2")	1,10	4177-02.000
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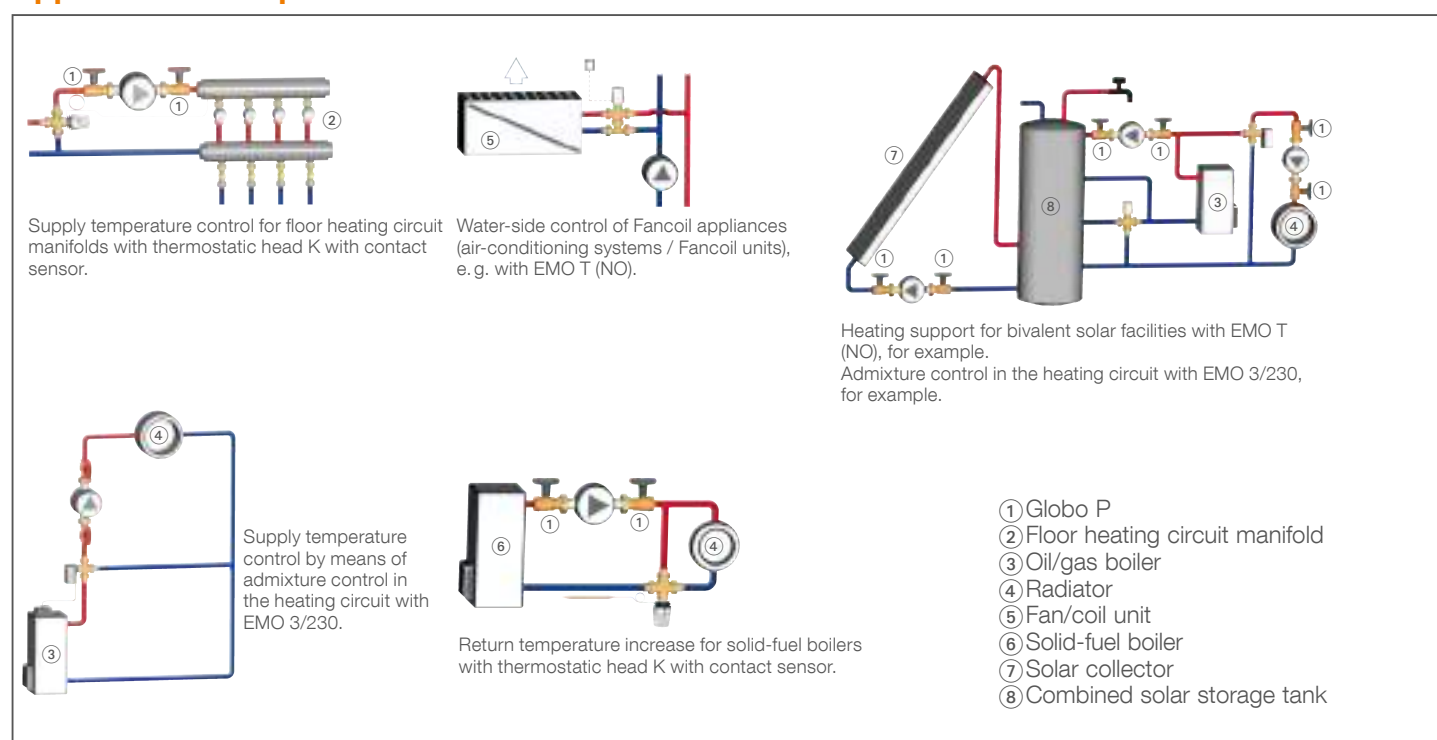
with T-piece

DN 20 (3/4")	2,11	4177-03.000
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Conically sealing

DN 15 (1/2") without compression fittings	1,10	4176-02.000
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Application examples



Kvs = m³/h at a pressure drop of 1 bar.

Thermostatic head K

With contact sensor, immersion sensor or spiral immersion sensor

Function

Controls the set temperature without auxiliary power within a proportional band which is required by controlling technology. If the temperature on the sensor increases, the thermostatic valve bodies are closed. With IMI HEIMEIER three-way reversing valves the straight pipe is closed and the angled outflow pipe is opened. With IMI HEIMEIER three-way mixing valves the angled pipe is closed and the straight outflow pipe is opened.

Applications

- Control of water temperature in hot water storages
- Continuous supply pipe control for combined floor/radiator heating systems
- Maximum restriction of the supply or return temperature
- Minimal restriction or boost of the return temperature
- Constant control of the supply temperature on the secondary side of the heat exchanger
- Control of the blow-out temperature from air heaters

A special feature of the thermostatic head K with spiral immersion sensor is its rapid reaction time (approx. 3 to 5 seconds) – a real benefit in rapid controlled systems, e.g. systems with plate heat exchangers.

Thermostatic head K with contact or immersion sensor



Article numbers

Thermostatic head K with contact or immersion sensor

with heat conducting base and spiral spring

	Article No
Setting range, 20 °C - 50 °C	6402-00.500
Capillary tube length 2 m	

without accessories

Setting range, 10 °C - 40 °C	6412-09.500
Setting range, 20 °C - 50 °C	6402-09.500
Setting range, 40 °C - 70 °C	6602-00.500
Setting range, 60 °C - 90 °C	6662-00.500

Immersion sleeve

Brass, R 1/2 x 186 mm total length	6602-00.363
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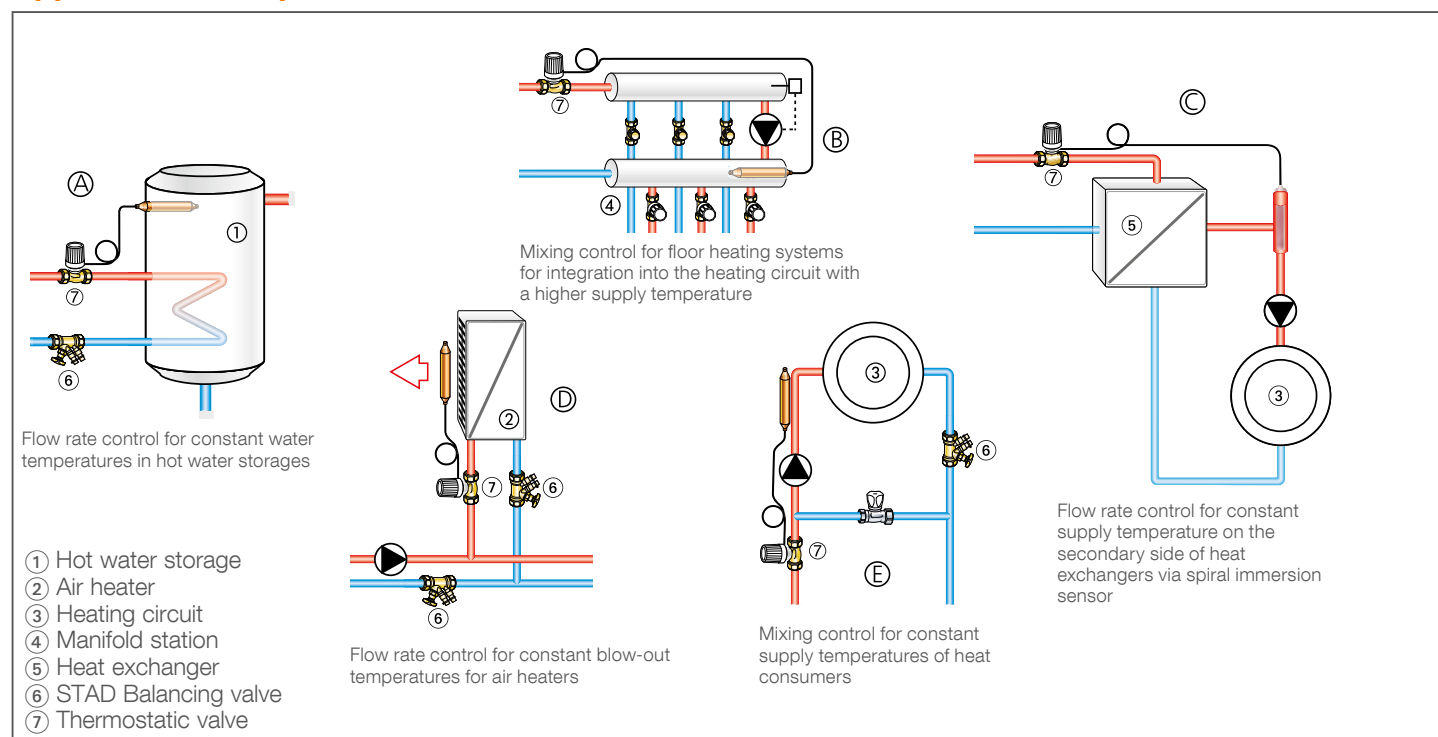
Contact sensor and fixing material

6402-00.200

with spiral immersion sensor

Setting range, 20 °C - 70 °C	6672-00.500
Capillary tube length 2 m	

Application examples



Hydrolux

Differential pressure overflow valve with direct setting value display

Function

The p-band which applies when the heating system is in full operation is set on the overflow valve. When the current output is reduced, the valve opens, causing the output rate of the circulating pump to remain constant within a proportional band necessary for control purposes.

Application

Hydrolux is used in warm water pump heating systems. The current output of the circulating pump changes according to the heating load and operating condition of a heating system. Depending on the characterization of the pump characteristic line, a decrease in current output causes an increase in the output rate. In addition, the pressure loss in the pipe network decreases, creating the possibility of an oversupply and noise build-up in parts of the system.

The Hydrolux overflow valve prevents an undesirable increase in the output rate and ensures that the current output remains constant.

For gas fired wall mounted heating systems, the minimum circulating water level is guaranteed. We particularly recommend that an overflow valve be used when the maximum output rate is significantly greater than the set opening pressure.

To improve the effect of the overflow valve, the bypass connection should be set up in a current-efficient way, or in such a way that pressure loss is low, i.e. as short as possible, with generous dimensions and without unnecessary individual resistances.

Article numbers

Hydrolux

female thread

	Article No
DN 20 (3/4")	5501-03.000
DN 25 (1")	5501-04.000
DN 32 (1 1/4")	5501-05.000

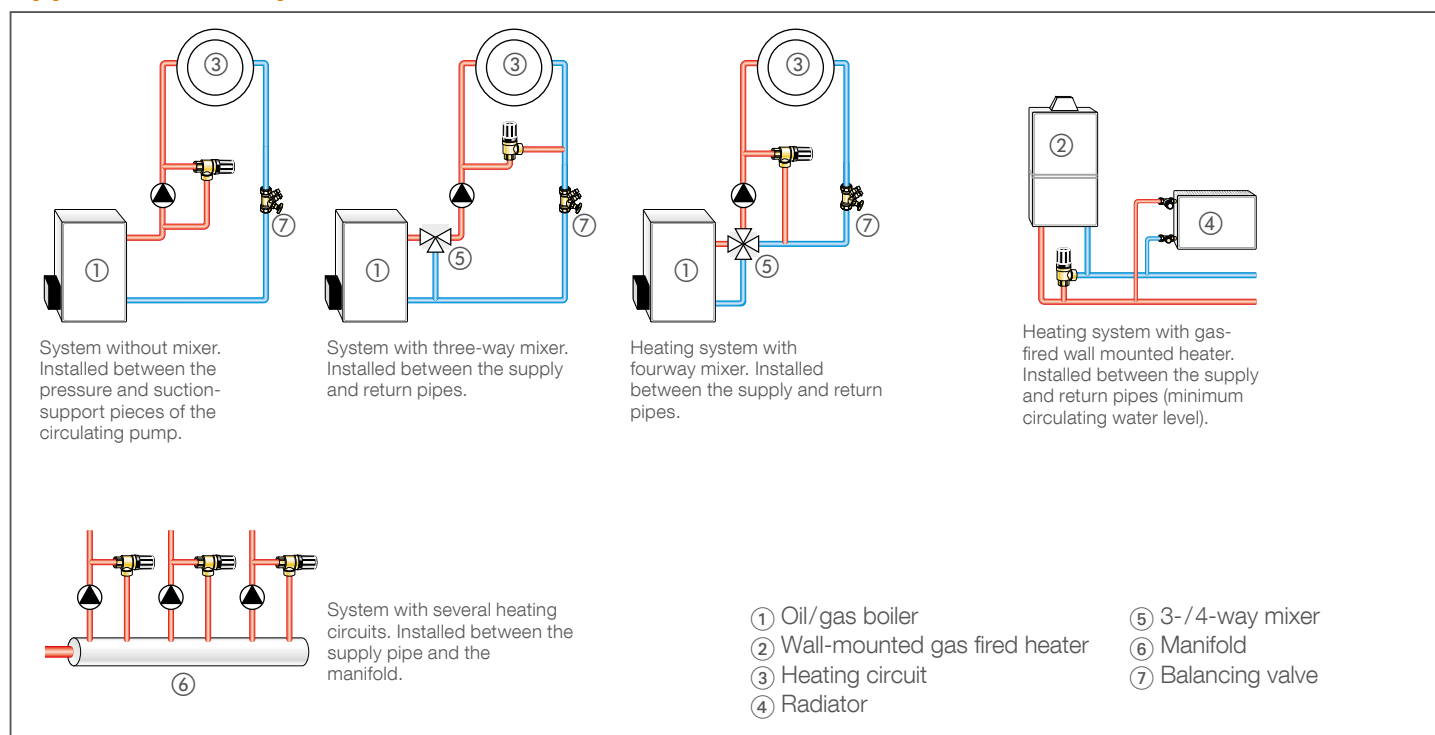
Flat sealing

DN 20 (3/4")	5503-03.000
DN 25 (1")	5503-04.000
DN 32 (1 1/4")	5503-05.000

Hydrolux



Application example



TA-COMPACT-T

Control valve with return temperature controller for cooling systems

TA-COMPACT-T is an On/Off control valve with built-in return temperature controller that guarantees requested return temperature from terminal units in cooling systems.

Correct return temperature ensures a high efficiency in the whole system and protects the chiller from low return temperature (low temperature syndrome).

The hydronic balancing by means of return temperature control limits over flows and saves pumping costs. TA-COMPACT-T is also the ideal solution for renovation of existing facilities.

A measuring nipple allows temperature measuring and it's monitoring.

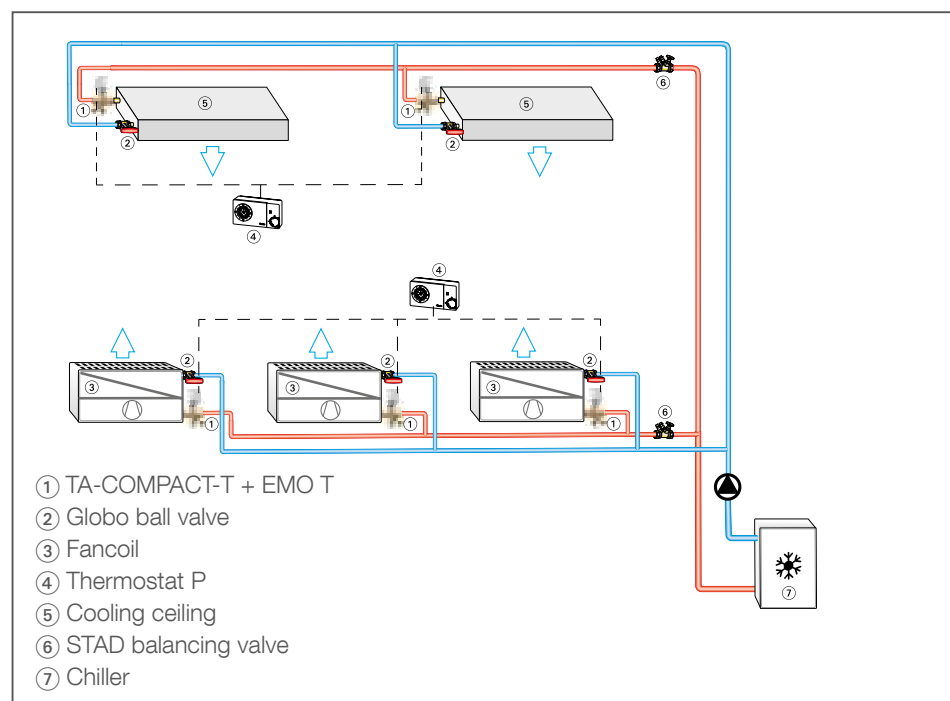
Temperature range:
Return temperature: 8°C - 18°C
Delivery setting: 12°C

Suitable for EMO T actuators.

TA-COMPACT-T



Application example



Kvs = m³/h at a pressure drop of 1 bar.

Article numbers

TA-COMPACT-T

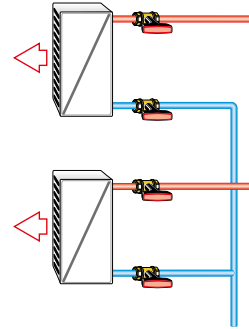
Angle	Kv	Article No
DN 15	2,27	4221-02.000
DN 20	3,10	4221-03.000
DN 25	5,06	4221-04.000

Compression fittings for copper or precision steel pipe, see page 89.

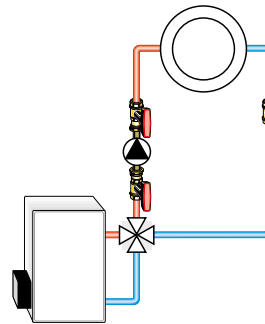
Pipe valves

Application overview

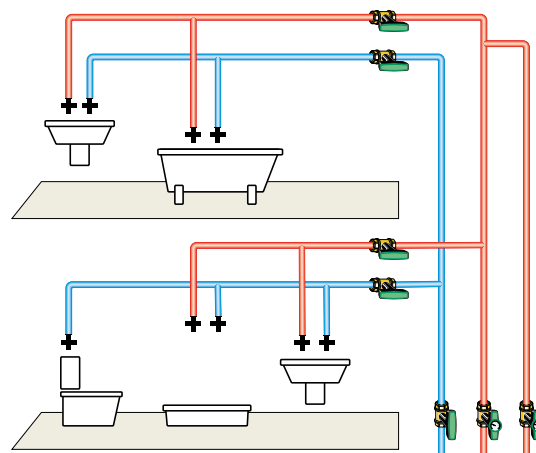
Ball valves for heating systems



Pump ball valves for heating systems



Ball valves for drinking water systems



Globo H

Ball valve made of gunmetal for heating systems

Globo H is used as a versatile shut-off element in pump hot-water heating systems.

Thanks to the compact working radius of the operating toggle, the Globo H is the ideal valve for adjacent installation on distributors.

The heating ball valve prevents heat loss as required by the respective energy saving ordinance. On versions with female thread and press connection, this requirement can be easily met by the use of heat insulation shells or with straight pipe insulation in view of the tube-shaped valve body. The operating toggle is located outside the heat insulation.

Globo H ball valves with Viega press connection are suitable for copper pipes conforming to EN 1057 as well as Viega Sanpress stainless steel and Prestabo steel pipes.

The version with male/female thread makes it possible to make a detachable joint using suitable IMI Heimeier screw connections with a threaded, soldered or welded nipple. The male thread is also suitable for the use of other flat-sealing screw connections with direct press, clamping or slide joint. Screw connections, see pages 90.

Thermometer in colour green, red or blue and insulation shells as accessory.

Globo H



Thermometer as accessory.

Article numbers

Globo H

Female thread	Kvs	Article No
DN 10 (R 3/8 x R 3/8)	6,0	0600-01.000
DN 15 (R 1/2 x R 1/2)	6,0	0600-02.000
DN 20 (R 3/4 x R 3/4)	14,0	0600-03.000
DN 25 (R 1 x R 1)	25,0	0600-04.000
DN 32 (R 1 1/4 x R 1 1/4)	42,0	0600-05.000
DN 40 (R 1 1/2 x R 1 1/2)	65,0	0600-06.000
DN 50 (R 2 x R 2)	100,0	0600-08.000

Viega Press connection

DN 15 (15 mm x 15 mm)	6,0	0602-15.000
DN 20 (22 mm x 22 mm)	14,0	0602-22.000
DN 25 (28 mm x 28 mm)	25,0	0602-28.000
DN 32 (35 mm x 35 mm)	42,0	0602-35.000

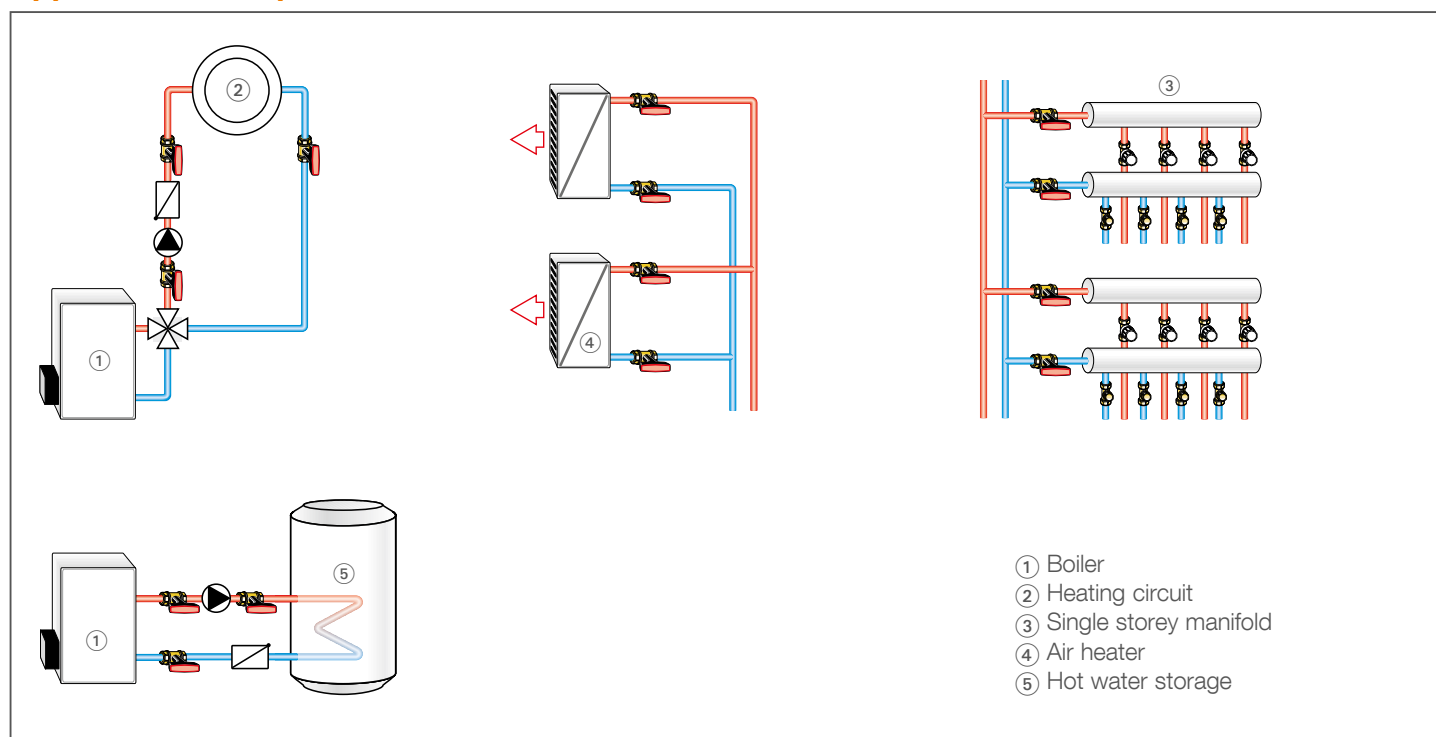
Mapress Press connection

DN 15 (15 mm x 15 mm)	6,0	0609-15.000
DN 20 (18 mm x 18 mm)	14,0	0609-18.000
DN 20 (22 mm x 22 mm)	14,0	0609-22.000
DN 25 (28 mm x 28 mm)	25,0	0609-28.000
DN 32 (35 mm x 35 mm)	42,0	0609-35.000

Male/female thread

DN 15 (G 3/4 x R 1/2)	6,0	0601-02.000
DN 20 (G 1 x R 3/4)	14,0	0601-03.000
DN 25 (G 1 1/4 x R 1)	25,0	0601-04.000
DN 32 (G 1 1/2 x R 1 1/4)	42,0	0601-05.000

Application examples



Kvs = m³/h at a pressure drop of 1 bar.

Globo P, Globo P-S

Pump ball valve made of gunmetal for heating systems

Globo P and Globo P-S are used in pump warm water heating systems for direct connection to circulating pumps with screwed pipe connections.

Easy to install by pushing the pump union nut onto the form flange of the pump ball valve. Universal application opportunity, e.g. Globo P on the suction side, and Globo P-S with a gravity brake on the pressure side of a circulating pump. The gravity brake on the Globo P-S is used e.g. to drain off, fill and bleed the system, can be mounted externally.

Globo P and Globo P-S ball valves with Viega press connection are suitable for copper pipes conforming to EN 1057 as well as Viega Sanpress stainless steel and Prestabo steel pipes.

Note: When the circulating pump is not in operation, low gravity circulation may occur in heating systems with a high operating pressure, despite the gravity brake. The gravity brake is not designed for use as a tightly closing return valve. The pump ball valves can be insulated against heat loss with no problem using the heat insulating dishes or with constant pipe insulation, depending on the heating system requirements. The operating toggle is outside the heat insulation. **Thermometer in colour green, red or blue and insulation shells as accessory.**

Globo P/P-S



Thermometer as accessory.



Article numbers

Globo P

	Kvs	Article No
1" x 1"	25,0	0620-04.000
1 1/4" x 1 1/4"	42,0	0620-05.000
1 1/4" x 1"	25,0	0620-45.000

with Viega Press connection

28 mm x 1"	25,0	0622-28.000
35 mm x 1 1/4"	42,0	0622-35.000

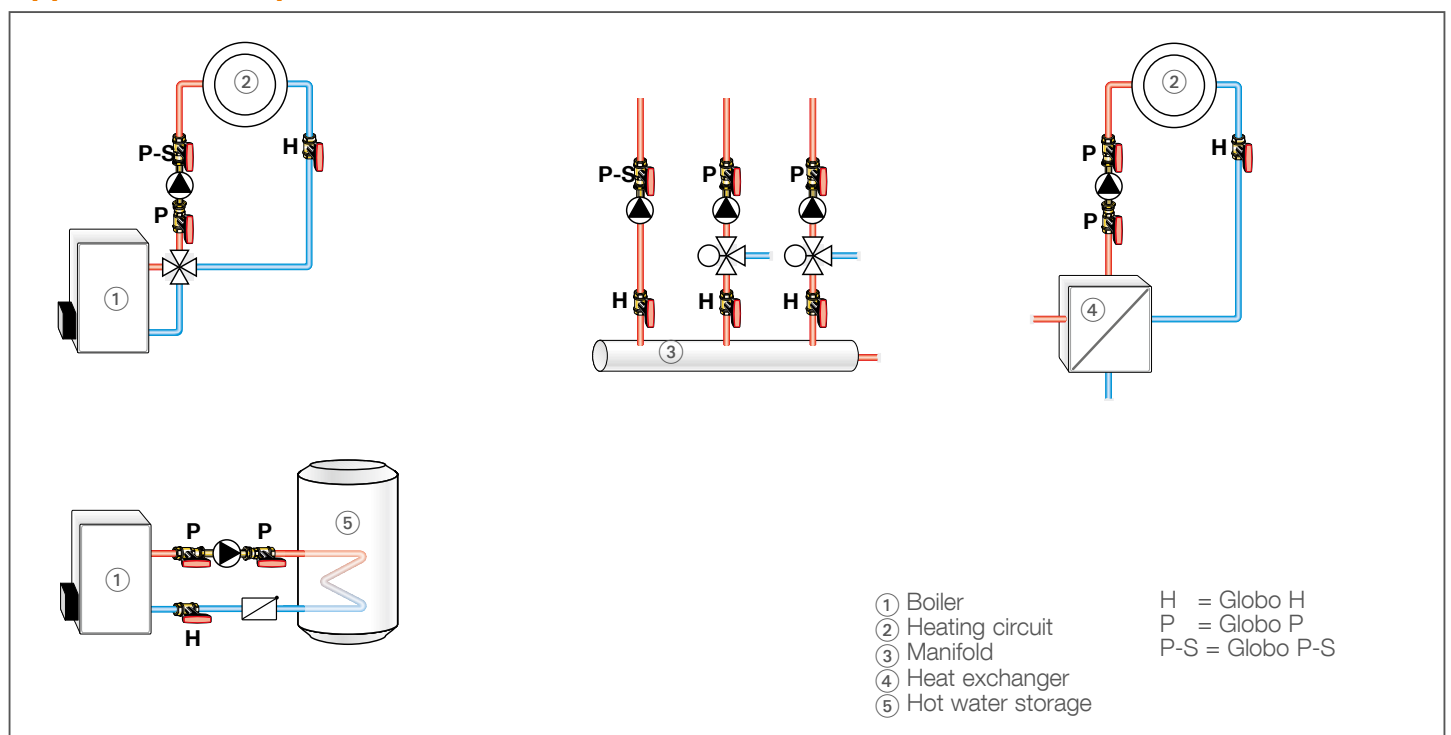
Globo P-S with gravity brake

1" x 1"	8,0	0630-04.000
1 1/4" x 1 1/4"	10,0	0630-05.000
1 1/4" x 1"	8,0	0630-45.000

with Viega Press connection

28 mm x 1"	8,0	0632-28.000
35 mm x 1 1/4"	10,0	0632-35.000

Application examples



Kvs = m³/h at a pressure drop of 1 bar.

Globo D

Ball valve made of gunmetal for drinking water systems



The Globo D is used in drinking water applications as a multifunctional shut-off valve.

Thanks to the compact working radius of the operating toggle, the Globo D is ideal valve for adjacent installation on distributors.

The drinking water ball valve prevents heat loss as required by the respective energy saving ordinance. On versions with female thread, this requirement can be easily met by the use of heat insulation shells or with straight pipe insulation in view of the tube-shaped housing. The operating toggle is located outside the heat insulation. Globo D meets the following requirements:

- DVGW W 570-1 (Drinking water installation, e.g. manually operated ball valves, - requirements and tests).
- DVGW W 270 (Testing and evaluation of the propagation of microorganisms on materials in drinking water applications).
- DIN EN 13828 (Manually operated ball valves for drinking water installations in buildings).
- DIN 50930-6 (Corrosion of metallic materials under corrosion load by water inside tubes, tanks and apparatus – influence of the composition of drinking water)

- KTW (Recommendation for plastics and other non-metallic materials)

- Excellent noise characteristics conforming to Valve Group I of EN ISO 3822.

Thermometer in colour green, red or blue and insulation shells as accessory.

Globo D



Article numbers

Globo D

Female thread	Kvs	Article No
DN 15 (Rp 1/2 x Rp 1/2)	6,0	0670-02.000
DN 20 (Rp 3/4 x Rp 3/4)	14,0	0670-03.000
DN 25 (Rp 1 x Rp 1)	25,0	0670-04.000
DN 32 (Rp 1 1/4 x Rp 1 1/4)	42,0	0670-05.000
DN 40 (Rp 1 1/2 x Rp 1 1/2)	65,0	0670-06.000
DN 50 (Rp 2 x Rp 2)	25,0	0670-08.000

Viega Press connection

DN 15 (15 mm x 15 mm)	6,0	0672-15.000
DN 20 (22 mm x 22 mm)	14,0	0672-22.000
DN 25 (28 mm x 28 mm)	25,0	0672-28.000
DN 32 (35 mm x 35 mm)	42,0	0672-35.000

Mapress Press connection

DN 15 (15 mm x 15 mm)	6,0	0679-15.000
DN 20 (22 mm x 22 mm)	14,0	0679-22.000
DN 25 (28 mm x 28 mm)	25,0	0679-28.000
DN 32 (35 mm x 35 mm)	42,0	0679-35.000

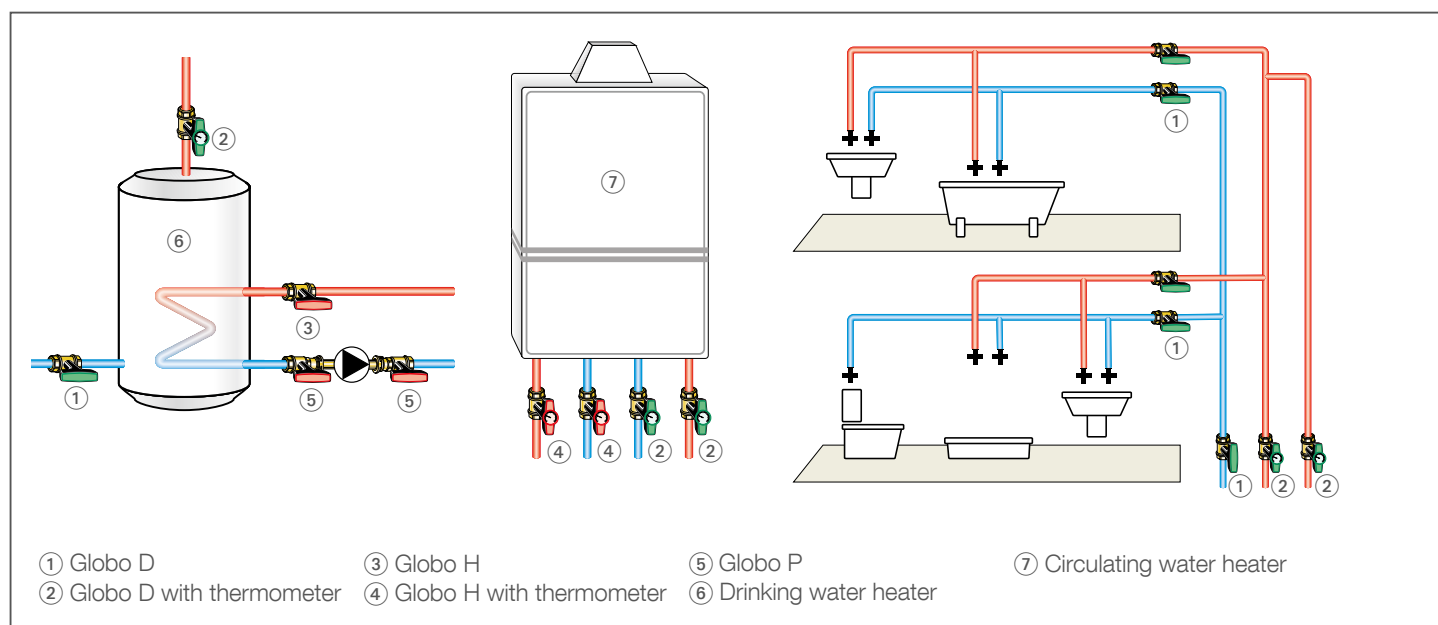
With drain-off female/male thread

DN 15 (Rp 1/2 x G 3/4)	6,0	0675-02.000
DN 20 (Rp 3/4 x G 1)	14,0	0675-03.000
DN 25 (Rp 1 x G 1 1/4)	25,0	0675-04.000
DN 32 (Rp 1 1/4 x G 1 1/2)	42,0	0675-05.000

With drain-off Viega press connection/male thread

DN 15 (15 x G 3/4)	6,0	0676-15.000
DN 20 (22 x G 1)	14,0	0676-22.000
DN 25 (28 x G 1 1/4)	25,0	0676-28.000
DN 32 (35 x G 1 1/2)	42,0	0676-35.000

Application examples



Kvs = m³/h at a pressure drop of 1 bar.

Globo S

Ball valve made of gunmetal for high operating temperatures, e.g. solar systems

Globo S is used as a versatile shut-off element in for example, solar, industrial and district heating systems.

Also for other applications requiring a higher operating temperature, as with solid fuel boilers Globo S is suitable.

Thanks to the compact working radius of the operating toggle, the Globo S is the ideal valve for adjacent installation on distributors.

The Globo S ball valve prevents heat loss as required by the respective energy saving ordinance. This requirement can be easily met by the use of heat insulation shells or with straight pipe insulation in view of the tube-shaped valve body.

The operating toggle is located outside the heat insulation.

Article numbers

Globo S

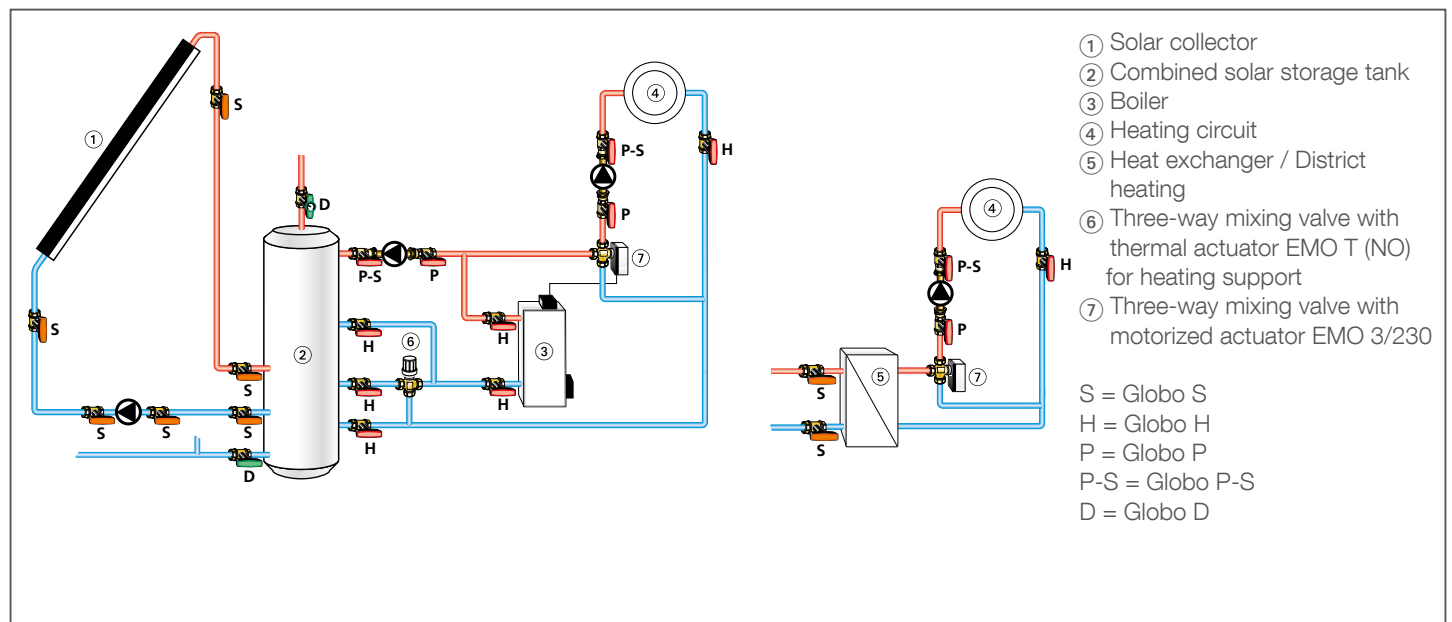
Female thread	Kvs	Article No
DN 15 (Rp 1/2 x Rp 1/2)	6,0	0645-02.000
DN 20 (Rp 3/4 x Rp 3/4)	14,0	0645-03.000
DN 25 (Rp 1 x Rp 1)	25,0	0645-04.000
DN 32 (Rp 1 1/4 x Rp 1 1/4)	42,0	0645-05.000

Pump connection	Kvs	Article No
1" x 1"	25,0	0646-04.000

Globo S



Application examples



Kvs = m³/h at a pressure drop of 1 bar.