

## ► Brunata Thermostat Valve Bodies Type: 130

### Characteristics

- Preset valves
- Angular or straight valve bodies
- Suitable for pipes made of iron, copper or polyethylene (PEX)
- With valve unit for presetting of the stem
- Solid design
- Valve unit can be replaced while there is water and pressure on the system
- All valves are pressure tested before delivery
- Prepacked thread for radiator
- Approved to European Standard EN 215-1

### Further information

Brunata thermostat valve bodies type 130 are used for the closing and regulation of radiators, fan heaters and heating panels in heating and air-conditioning systems combined with thermostat heads type 148.

The valve bodies are either delivered as angular or straight valve bodies with internal or external pipe thread to be mounted on radiators.

The thread on the screwed valve connection is prepacked, which makes the installation a lot easier. Different from other fittings the screwed connection is also equipped with an O-ring ensuring further sealing.

### Application

The thermostat valves are produced for the regulation of room temperature either manually or automatically in connection with thermostat heads (type 148) or electro-thermic actuators.

The valves are delivered preset, which ensures an exact balancing of the heating system when supplied with radiator thermostats. Adjustments can be made by turning the ring shaped nut below the handwheel, as this will limit the travel of the stem.

When removing the handwheel the presettings are kept.

### Mode of operation

The valve is operated either manually by means of the handwheel or automatically by means of the thermostat head or a thermoelectrical device increasing or reducing the circulation of water.

Water speed and pressure drops may be concluded from the pressure drop charts.

### Pressure drop charts

Please see data sheet QB 10.1162



Type	Item no.
<b>Angular valve body w/ internal pipe thread</b>	
130USN 3/8"	09-3000-H
130USN 1/2"	09-3001-H
130USN 3/4"	09-3002-H
130USN 1"	09-3003-H
<b>Straight valve body w/ internal pipe thread</b>	
131USN 3/8"	09-3010-H
131USN 1/2"	09-3011-H
131USN 3/4"	09-3012-H
131USN 1"	09-3013-H
<b>Angular valve body w/ external pipe thread</b>	
1130USN 3/8"	09-3020-H
1130USN 1/2"	09-3021-H
<b>Straight valve body w/ external pipe thread</b>	
1131USN 3/8"	09-3030-H
1131USN 1/2"	09-3031-H

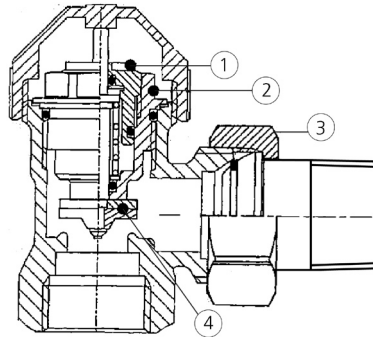
*Brunata is a 100 % Danish owned company. We have more than 85 years experience within developing and producing heat cost allocators and heating accounts. Brunata has implemented a quality system in accordance with EN ISO 9001. Please contact us for further information on our products!*

## Technical data

Nominal pressure: 10 bar  
 Max. pressure difference: 1.5 bar  
 Max. temperature: 110 °C  
 Usable liquids: Water- also with ≤ 30 % glycol

### Design features:

Valve case: Brass CW617N  
 Handwheel: Polypropylene  
 O-ring: EPDM  
 Screwed connection: Brass CW617 N



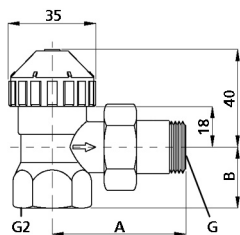
1. The presetting nut can be removed also when the heating system is under pressure
2. The complete valve insertion can be changed by means of valve tools without emptying the system
3. Screwed connection with O-ring seal and prepacked thread
4. Valve seat made of elastomeric materials, vulcanised ethylen-propylen terpolymer (EPDM)

## Kv values in different preset positions

Setting positions	130UM 3/8"	130UM 1/2" 1130UM 3/8" & 1/2"	130UM 3/4"	131UM 3/8"	131UM 1/2" 1131UM 3/8" & 1/2"	131UM 3/4"
1	0.25	0.28	0.25	0.25	0.25	0.30
2	0.60	0.6	0.64	0.60	0.65	0.60
3	0.85	0.87	0.92	0.80	0.88	0.91
4	1.07	1.10	1.23	0.94	1.12	1.18
5	1.27	1.32	1.50	1.02	1.30	1.43
6	1.44	1.50	1.72	1.06	1.46	1.64
7	1.62	1.72	1.93	1.09	1.57	1.85
A	2.20	2.60	3.40	1.10	1.90	2.60

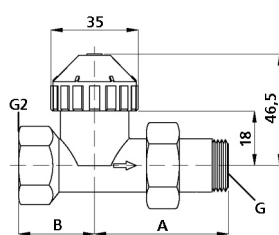
Kv= $\frac{q_{ms}}{316}$	Presettings									
	Size	1	2	3	4	5	6	7	Max	Qmn
Angular valves	3/8"	80	180	233	233	233	233	233	233	233
	1/2"	78	176	236	236	236	236	236	236	236
	3/4"	72	171	251	251	251	251	251	251	251
Straight valves	3/8"	72	165	215	215	215	215	215	215	215
	1/2"	36	122	235	235	235	235	235	235	235
	3/4"	39	162	246	246	246	246	246	246	246
%	60	30	20	10	10	10	10	10	10	10
a	0.1	0.2	0.4	0.4	0.6	0.7	0.9	0.9	0.9	0.9

## Dimensions



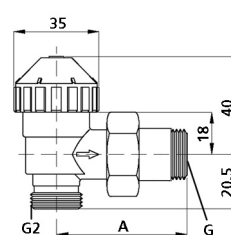
Type 130USN Angular valves w/ internal pipe thread for iron pipes

G	G2	A	B	Weight
3/8"	3/8"	49	20	190 g
1/2"	1/2"	53	23	240 g
3/4"	3/4"	61	28	370 g



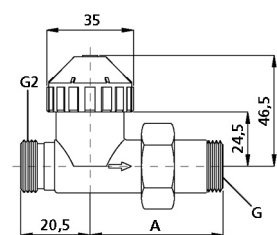
Type 131USN Straight valves w/ internal pipe thread for iron pipes

G	G2	A	B	Weight
3/8"	3/8"	49	26	210 g
1/2"	1/2"	53	29	270 g
3/4"	3/4"	61	34	360 g



Type 1130USN Angular valves w/ external pipe thread for Cu- and PEX-pipes

G	G2	A	Weight
3/8"	1/2"	49	180 g
1/2"	1/2"	53	220 g



Type 1131USN Straight valves w/ external pipe thread for Cu- and PEX-pipes

G	G2	A	Weight
3/8"	1/2"	49	180 g
1/2"	1/2"	53	220 g