R206B-1

Static balancing valve, compact version

Energy Management

Datasheet
0826EN 08/2022

Balancing is essential to saving the energy used in hydronic systems.
The R206B-1 compact static balancing valves allow a gradual and precise regulation of the flow rate.

Versions and product codes

PRODUCT CODE	DN VALVE BODY SIZE	CONNECTIONS
R206BY113	15	G 1/2"F
R206BY114	20	G 3/4"F
R206BY115	25	G 1"F

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Technical data

- Fluids: water, glycol solutions (max. 50 % glycol)
- Temperature range: 5÷110 °C
- Max. working pressure: 25 bar (2,5 MPa)
- Connection for R206C differential pressure controller capillary: G 1/4"F
- Closing function
- Presetting possibility

Materials

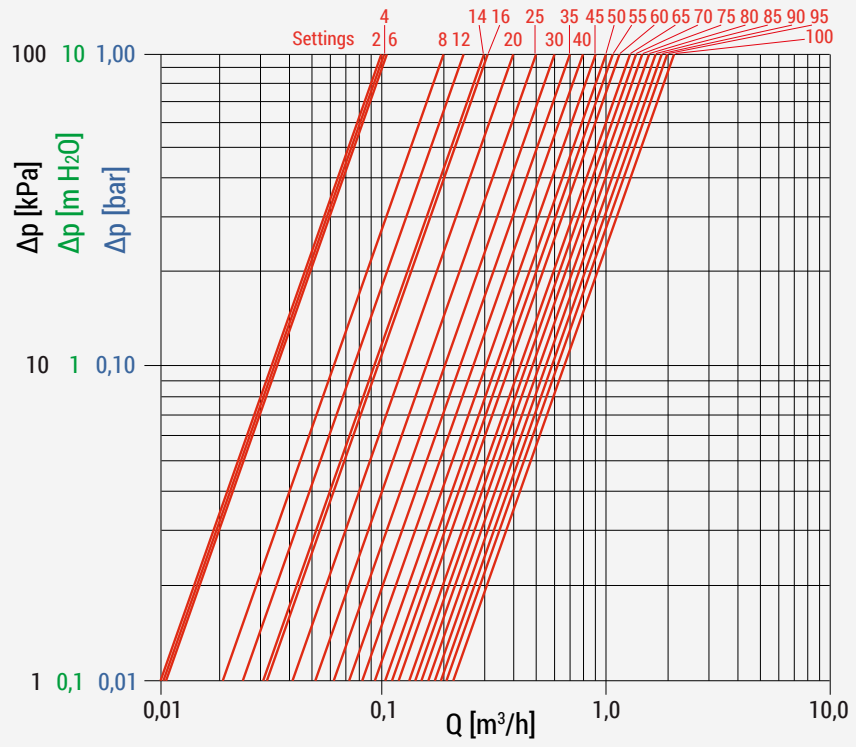
- Body: brass UNI EN 12165 - CW617N
- Handwheel: ABS, white color

Valves Kv

CONNECTIONS	VALVES Kv
G 1/2"F	2,1
G 3/4"F	4,4
G 1"F	6,25

Loss of pressure

R206BY113 (1/2")



SETTING	Kv
100	2,10
95	2,00
90	1,85
85	1,75
80	1,65
75	1,55
70	1,45
65	1,35
60	1,25
55	1,15
50	1,05
45	0,94
40	0,83
35	0,73
30	0,62
25	0,52
20	0,42
16	0,33
14	0,29
12	0,25
8	0,17
6	0,12
4	0,08
2	0,04

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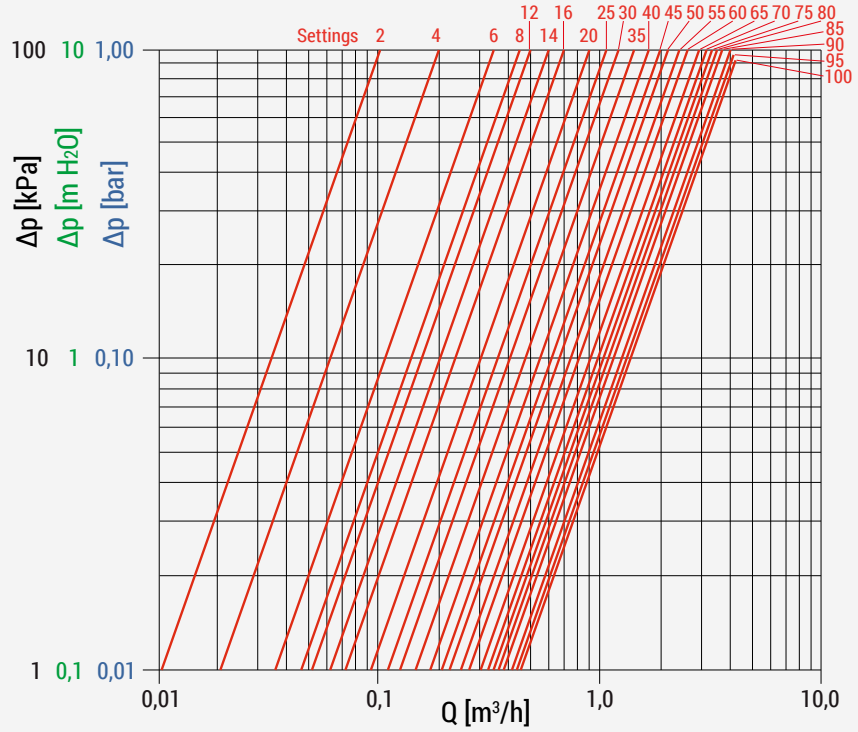
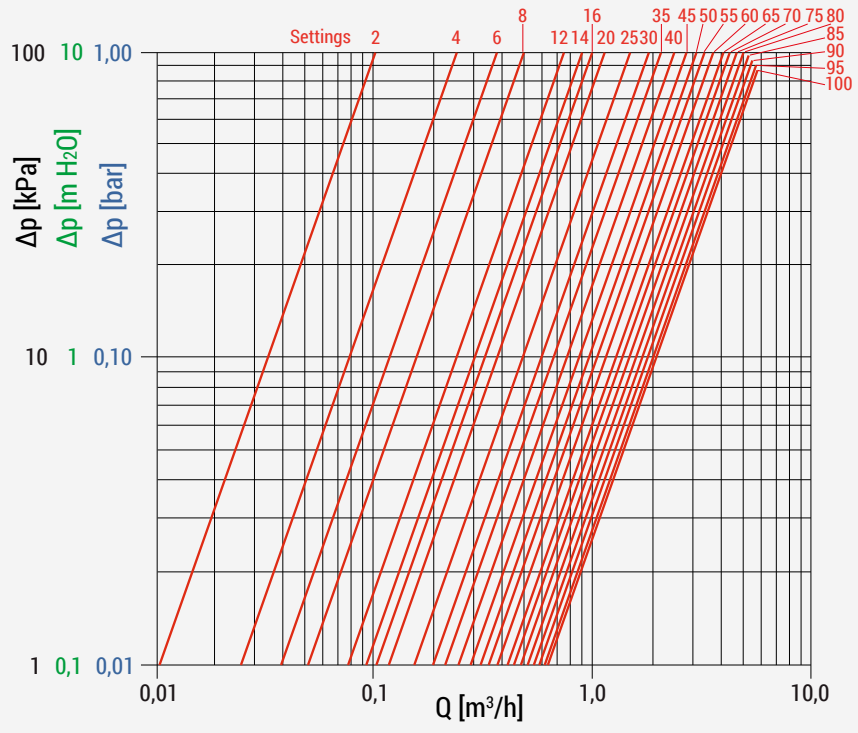
R206BY114 (3/4")



SETTING	Kv
100	4,40
95	4,20
90	4,00
85	3,75
80	3,55
75	3,30
70	3,10
65	2,85
60	2,65
55	2,45
50	2,20
45	1,98
40	1,76
35	1,54
30	1,32
25	1,10
20	0,88
16	0,71
14	0,62
12	0,53
8	0,35
6	0,26
4	0,18
2	0,09

R206BY115 (1")



SETTING	Kv
100	6,25
95	5,95
90	5,60
85	5,30
80	5,00
75	4,70
70	4,35
65	4,05
60	3,75
55	3,45
50	3,10
45	2,81
40	2,50
35	2,18
30	1,87
25	1,56
20	1,25
16	1,00
14	0,87
12	0,75
8	0,50
6	0,37
4	0,25
2	0,12

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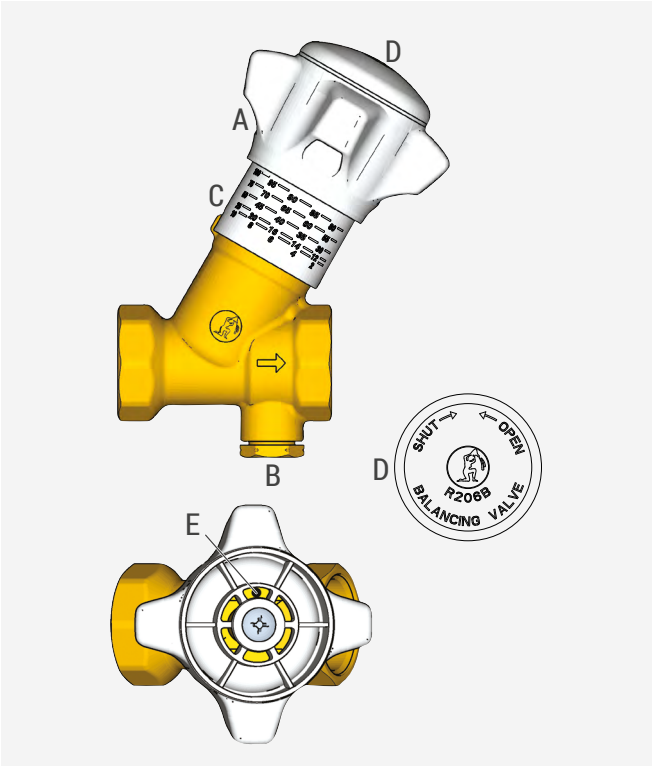
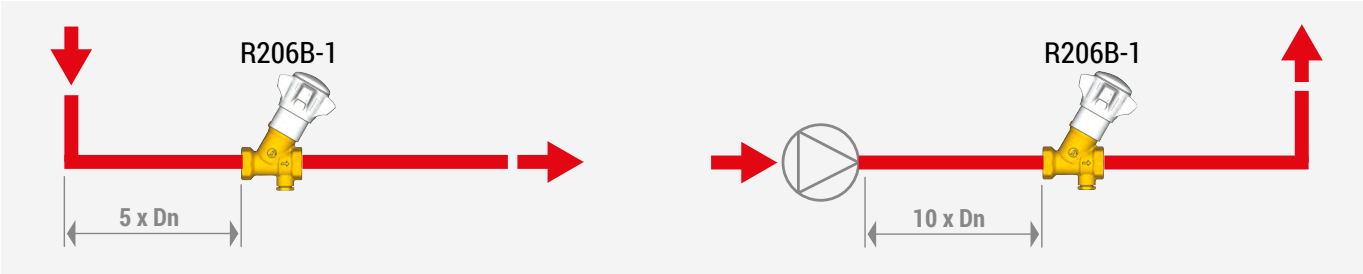
Components



A	Handwheel
B	G 1/4"F connection for differential pressure controller capillary pipe
C	Presetting scale 0÷100 % (25 position)
D	Removable cap (to carry out the limitation of the opening stroke)
E	Locking screw (limits the opening stroke to the desired value)

Installation

- The valve must be installed maintaining free access to the drain and handwheel.
- The valve and the pipe on which it is installed must have the same nominal diameter.
- Wash the system before installing the R206B-1 valve.
- To protect the valve from possible impurities, insert a filter upstream the valve.
- Respect the flow direction indicate on the valve's body.
- The valve can be mounted on horizontal or vertical pipes.
- If the valve is installed after a curved pipe portion is recommended to maintain a straight pipe before the valve to a minimum length equal to 5 times the nominal diameter (Dn) of the valve itself.
- If there is a circulator immediately before the valve, the minimum recommended length of the straight pipe is 10 times the nominal diameter (Dn) of the valve itself.



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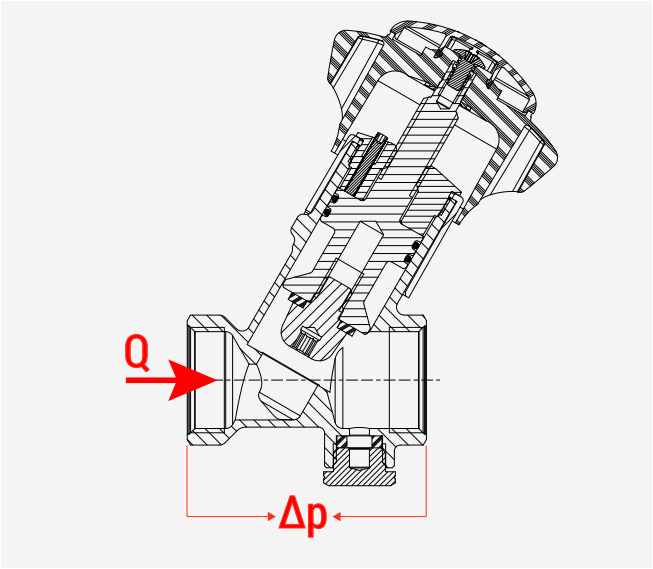
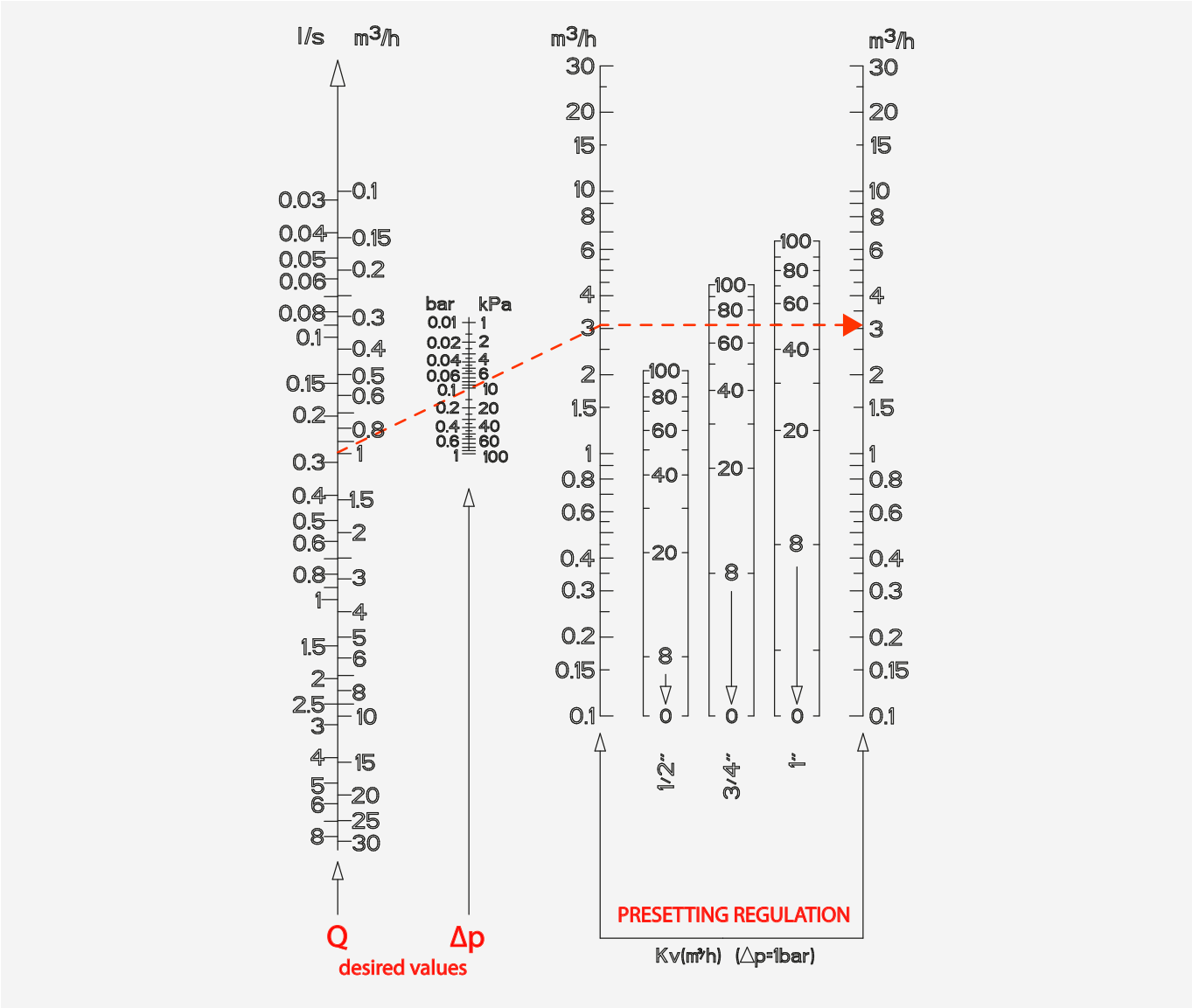
Operation

Presetting



R206B-1 compact static balancing valves are equipped with a mechanism of mechanical memory of the opening (presetting).
This mechanism works by limiting the handwheel stroke (A) through a locking screw (E).
The presetting is carried out as follows:

- Select the desired flow rate Q depending on the differential pressure Δp;
- Through the presetting diagram, determine the regulation to be carried out to obtain the desired flow rate Q depending on the differential pressure Δp according to the valve size,
- Make the regulation of the R206B-1 valve by means of the handwheel (A), on the regulation scale (C);
- Screw clockwise until it stops the locking screw of the presetting (E) by using an allen key of 1,5 mm.



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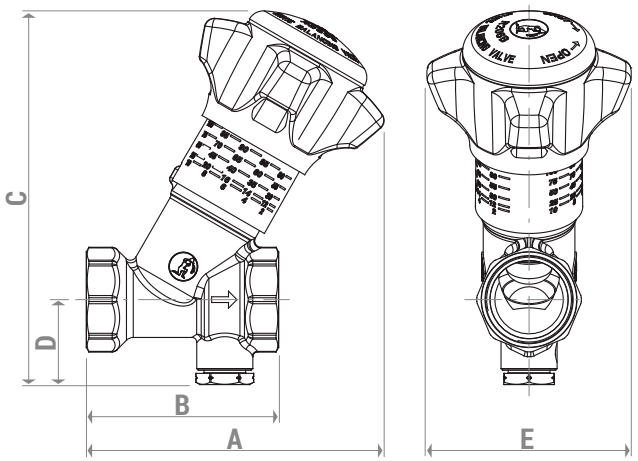
Dimensions



PRODUCT CODE	DN	CONNECTIONS	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]
R206BY113	15	G 1/2"F	93	54	117	24	64
R206BY114	20	G 3/4"F	93	60	117	27	64
R206BY115	25	G 1"F	97	68	120	30	64

Product specifications

R206B-1

Compact static balancing valve with threaded connections from G 1/2"F to G 1"F. With G 1/4"F connection for differential pressure controller capillary pipe. Closing function and possibility of presetting. Temperature range: 5÷110 °C. Maximum working pressure: 25 bar. Body in UNI EN 12165 - CW617N brass. Handwheel in ABS, white color.

UNIT OF MEASUREMENT.

1 bar = 100 kPa

1 m^3/h = 1000 l/h = 16,7 l/min = 0,28 l/s

Safety Warning. Installation, commissioning and periodical maintenance of the product must be carried out by qualified operators in compliance with national regulations and/or local standards. A qualified installer must take all required measures, including use of Individual Protection Devices, for his and others' safety. An improper installation may damage people, animals or objects towards which Giacomini S.p.A. may not be held liable.

Package Disposal. Carton boxes: paper recycling. Plastic bags and bubble wrap: plastic recycling.

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Product Disposal. Do not dispose of product as municipal waste at the end of its life cycle. Dispose of product at a special recycling platform managed by local authorities or at retailers providing this type of service.

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