

CE 0425



R140C-1

Description

The R140C-1 safety valves are used in domestic water systems to protect the hot water accumulation, and can also be used to drain cold water. The valves comply with Directive "PED" 2014/68/UE. The user must respect the calibration of the safety valves (set by the manufacturer and indicated on the coloured cap), avoiding any type of intervention that could alter their correct functioning.

Versions and product codes

Series	Product code	Connections	Calibration pressure [bar]
R140C-1	R140CY010	G 1/2"F x G 3/4"F	7 (white cap)
	R140CY011		8 (white cap)



CONFORMITY DECLARATION

Frame the QR code with your smartphone or tablet to view the conformity declaration.

Technical data

- Fluids: hot/cold domestic water, air
- Temperature range: 5÷110 °C
- Nominal pressure: 10 bar
- Open overpressure: 20%
- Closure range: 20 %
- PED cat.: IV

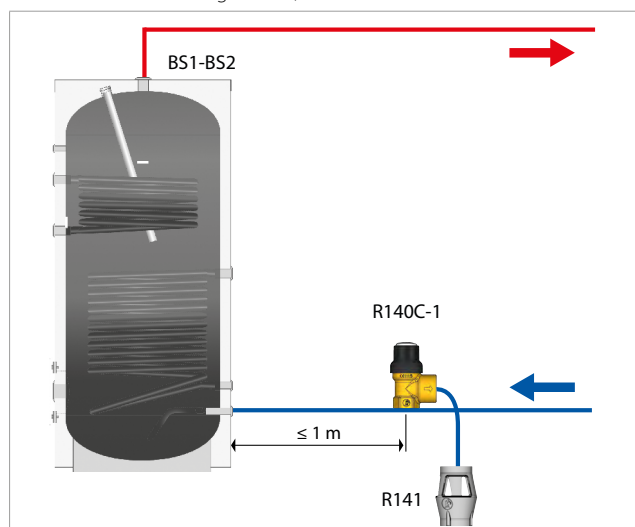
Materials

- Body: brass UNI EN 12165 CW617N
- Membrane: EPDM
- Separator: brass UNI EN 12164 CW614N
- Rod: brass UNI EN 12164 CW614N
- Gasket: synthetic fibre
- Spring: steel
- Spring presser: brass UNI EN 12164 CW614N
- Bonnet: IXEF
- Knob: POM
- Cap: ABS or MABS
- Washer: steel

Installation

The safety valves of the R140C-1 range must be assembled vertically (to prevent system impurities from settling), respecting the flow direction indicated by the arrow on the body. They must be installed in the coldest part of the system (in line with the domestic water accumulation delivery, as shown in the figure), clearly visible and easy to check.

The transfer pipe to the safety valve must be max. 1 metre long, without any reduction element and with a diameter no less than that of the input section of the valve itself. The safety valve drainage must be channelled into the funnel with visible drainage - R141, R141C series.



Warning.

During the installation, initial start-up and maintenance of the safety valves, it is important to respect all good technical practices as well as the indications given in this document in order to avoid dangerous situations for people and/or objects.

Maintenance

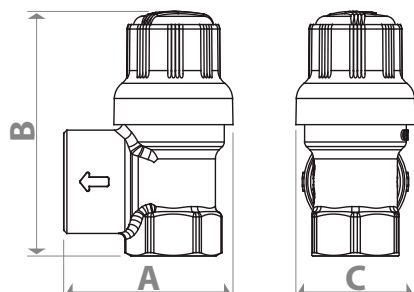
The valve must be checked at least once a year, by increasing the system pressure to induce drainage. If this is not possible, you can rotate the knob and check the drainage visually. Any impurities that form on the housing can be removed by means of regular purging.

Performance

Product code	Connections	Orifice diameter [mm]	Net cross section [mm ²]	Outflow coefficient K	Calibration pressure [bar]	Nominal discharge press. [bar]	Closing pressure [bar]	Drainage capacity [kg/h]	Max. generator potential [kW]	Max. generator potential [kcal/h]
R140CY010	G 1/2" F x G 3/4" F	13	132,665	0,318	7	8,4	5,6	186,73	108,3	93125
R140CY011					8	9,6	6,4	199,63	115,8	99555

Data calculated in accordance with UNI EN ISO 4126-1. Maximum generator power calculated as the product of the drainage capacity multiplied by the fluid vaporisation heat, at ambient pressure W = 1,013 bar

Dimensions




Series	Product code	Connections	Dimensions (A x B x C) [mm]	Suitable relief funnel
R140C	R140CY010	G 1/2" F x G 3/4" F	53 x 76 x 37	R141Y014 R141CY004
	R140CY011			

Accessories

It should channel the discharge of safety valves using the appropriate funnels exhaust R141, R141C (to be ordered separately).

Relief funnel R141	Relief funnel R141C	For safety valve with drainage of:
		
R141Y014	R141CY004	3/4"

	Note. The use of the R141, R141C relief funnels (plus curved couplings R19 and R189 if necessary) prevents any spray from reaching the electric components.
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Product specifications

R140CY010

Compact safety valve for use in domestic water systems. Female-female threaded connections of 1/2" F x 3/4" F. Fluids: hot/cold domestic water, air. Body in brass UNI EN 12165 CW617N. Membrane in EPDM. Separator in brass UNI EN 12164 CW614N. Rod in brass UNI EN 12164 CW614N. Gasket in synthetic fibre. Spring in steel. Spring presser in brass UNI EN 12164 CW614N. Bonnet in IXEF. Knob in POM. Cap in ABS or MABS. Washer in steel. Temperature range 5÷110 °C. Nominal pressure 10 bar. Open overpressure 20%. Closure range 20%. Compliance with Directive "PED" 2014/68/UE (cat. IV). Factory calibration 7 bar (white cap).

R140CY011

Compact safety valve for use in domestic water systems. Female-female threaded connections G 1/2" F x G 3/4" F. Fluids: hot/cold domestic water, air. Body in brass UNI EN 12165 CW617N. Membrane in EPDM. Separator in brass UNI EN 12164 CW614N. Rod in brass UNI EN 12164 CW614N. Gasket in synthetic fibre. Spring in steel. Spring presser in brass UNI EN 12164 CW614N. Bonnet in IXEF. Knob in POM. Cap in ABS or MABS. Washer in steel. Temperature range 5÷110 °C. Nominal pressure 10 bar. Open overpressure 20%. Closure range 20%. Compliance with Directive "PED" 2014/68/UE (cat. IV). Factory calibration 8 bar (white cap).

Additional information

For further information, visit the website www.giacomini.com or contact the technical service: ☎ +39 0322 923372 📠 +39 0322 923255 ✉ consulenza.prodotti@giacomini.com
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