



TECHNICAL DATA SHEET OF THE PRODUCT

Pressure relief valves

1. Purpose and scope of application

A pressure relief valve or safety valve is a pipeline fitting designed to protect equipment and pipelines from mechanical destruction by excess pressure by automatically releasing excess liquid media from systems and vessels with pressures in excess of the established pressure. The valve must also ensure that the discharge of the medium is stopped when the operating pressure is restored.

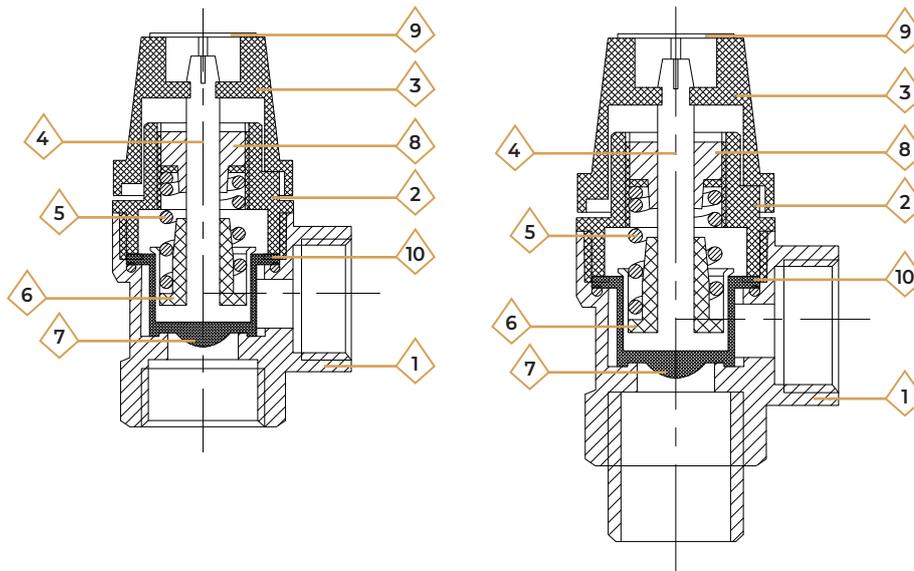
Water, air, ethylene glycol, propylene glycol, natural gas, compressed carbon dioxide and other liquid and gaseous media that are neutral with respect to the valve materials can be used as the working medium. The valve handles have the following colors depending on the factory setting of the opening pressure:

-  yellow - 2 bar;
-  red - 3 bar;
-  blue - 6 bar.

2. Technical specifications

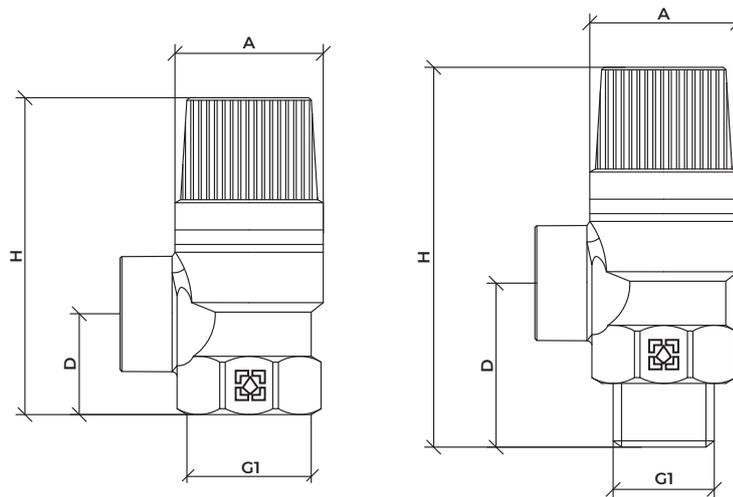
№	Characteristic	Unit	Designation					
			2 bar		3 bar		6 bar	
1	Article		RPR012-F	RPR012-M	RPR013-F	RPR013-M	RPR016-F	RPR016-M
2	Maximum power of the security system	kW	43,7		43,7		43,7	
3	Maximum working environment temperature	°C	115		115		115	
4	Nominal diameter	inches	1/2" F		1/2" F		1/2" F	
5	Резьба подключения		FF	FM	FF	FM	FF	FM
6	Valve seat diameter	mm	13,4		13,4		13,4	
7	Valve seat area (net)	sm ²	1,41		1,41		1,41	
8	Calculated valve lift height	mm	0,7		0,7		0,7	
9	Estimated cross-sectional area of the current part	sm ²	0,29		0,29		0,29	
10	Full opening pressure	bar	1,65		3,3		6,6	
11	Permissible pressure behind the valve	bar	0,15		0,3		0,6	
12	Closing pressure	bar	1,35		2,7		5,4	
13	Ambient temperature	°C	-20 -+60		-20 -+60		-20 -+60	
14	Nominal steam output	kg/h	5,35		8,25		14,2	
15	Nominal air capacity	m ³ /h	2,72		2,68		2,63	
16	Nominal water capacity	l/h	231		325		455	
17	Average total service life	years	15		15		15	

3. Construction and materials



№	Name	Material	Material marking according to standards
1	Frame	Hot pressed brass	CW617N
2	Case cover	ABS plastic	ABS
3	Pen	ABS plastic	ABS
4	Stock	ABS plastic	ABS
5	Spring	Stainless steel	AISI316
6	Spring support	ABS plastic	ABS
7	Diaphragm	ABS plastic	ABS
8	Sleeve	Hot pressed brass	CW617N
9	Sign	Aluminum	Al
10	Pressure ring	Ethylene-propylene-diene monomer	EPDM

4. Nomenclature and overall dimensions



№	Article	Size	A, mm	H, mm	D, mm	G1	Weight, gr.
1	RPR012-M	1/2"	30.5	69.5	24.5	1/2"	110
2	RPR013-M						
3	RPR016-M						
4	RPR012-F	1/2"	30.5	65.5	20.5	1/2"	110
5	RPR013-F						
6	RPR016-F						

5. Installation Guide and Instructions

1. The valve should be installed with the plastic handle facing up. In this case, an air gap is formed under the coil, increasing the service life of the coil holder.
2. When connecting the valve outlet to the drainage (discharge) pipe, the connection must be made with a break in the pressure line (through a funnel and a water seal). Such a connection guarantees protection of the system even when the drainage pipe is blocked, ensures control over the valve operation and protects the room from odors from the drainage pipe;
3. The valves must operate at the pressure and temperature specified in the technical properties table.
4. Check the properties of steel products at least once every 6 months. This is necessary to prevent wallpaper from sticking. To open manually, turn the handle ½ turn clockwise until it clicks.
5. Self-dismantling of the valve is prohibited.

6. Warranty obligations

1. The manufacturer guarantees that the products comply with safety requirements, provided that the consumer complies with the rules of use, transportation, storage, installation and operation.
2. The warranty covers all defects caused by the manufacturer's fault.
3. The warranty does not cover defects that occur in the following cases:
 - violation of passport regimes for transportation, storage, installation, operation and maintenance of the product;
 - improper transportation and loading and unloading operations;
 - the presence of traces of exposure to substances that are aggressive to the product materials;
 - the presence of damage caused by fire, natural disasters, force majeure circumstances;
 - the presence of damage caused by incorrect actions of the consumer;
 - the presence of traces of third-party interference in the design of the product.
4. The manufacturer reserves the right to make changes to the product design that do not affect the declared technical characteristics.

7. Warranty terms and conditions

1. Claims for the quality of the goods may be made during the warranty period.
 2. Defective products during the warranty period are repaired or exchanged for new ones free of charge. The decision to replace or repair the product is made by the service center. The replaced product or its part obtained as a result of the repair becomes the property of the service center.
 3. The costs associated with dismantling, installation and transportation of the defective product during the warranty period are not reimbursed to the Buyer.
 4. In cases where the claim is unfounded, the costs of diagnostics and examination are paid by the Buyer.
 5. Products are accepted for warranty repair (as well as when returned) fully equipped.
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WARRANTY CARD № _____

Product name _____

Brand, article, size _____

Quantity _____

Name and address of the trading organization _____

Date of sale _____ Seller's signature _____

Stamp or seal
of the trading organizationI AGREE with the conditions:
BUYER _____
(signature)

The warranty period is seven years (eighty-four months) from the date of sale to the end consumer.

When making claims regarding the quality of the goods, the buyer shall provide the following documents:

1. A statement in any form, indicating:
 - name of the organization, full name of the buyer, actual address and contact phone number;
 - name and address of the organization that performed the installation;
 - main system parameters;
 - short description of the defect;
2. Document proving the purchase of the product;
3. Hydraulic test certificate of the system in which the product was installed;
4. A completed warranty card issued on the manufacturer's website «raftec.eu».

Return or exchange mark: _____

Date _____ y. Signature: _____