



### PRODUCTION RANGE



#### CERTIFIED SAFETY RELIEF VALVES (Compliant with Directive PED 2014/68/EU, with INAIL formerly ISPESL bench calibration report)

Φ Orifice	D <sub>N</sub> = 15 mm		D <sub>N</sub> = 20 mm		D <sub>N</sub> = 25 mm		D <sub>N</sub> = 32 mm					
Net Sec.	A = 1.76 cm <sup>2</sup>		A = 3.14 cm <sup>2</sup>		A = 4.90 cm <sup>2</sup>		A = 8.03 cm <sup>2</sup>					
Φ Coupling	D <sub>I</sub> = 1/2"		D <sub>I</sub> = 3/4"		D <sub>I</sub> = 1"		D <sub>I</sub> = 1 1/4"					
Φ Discharge	D <sub>S</sub> = 3/4"		D <sub>S</sub> = 1"		D <sub>S</sub> = 1 1/4"		D <sub>S</sub> = 1 1/2"					
Discharge Coeff.	K = 0.60		K = 0.65		K = 0.75		K = 0.50					
Calibration P <sub>t</sub> [bar]	Code	Flow rate W [Kg/h]	Max Generator Potential (P=P <sub>t</sub> +10%P <sub>t</sub> ) [KW]	Code	Flow rate W [Kg/h]	Max Generator Potential (P=P <sub>t</sub> +10%P <sub>t</sub> ) [KW]	Code	Flow rate W [Kg/h]	Max Generator Potential (P=P <sub>t</sub> +10%P <sub>t</sub> ) [KW]	Code	Flow rate W [Kg/h]	Max Generator Potential (P=P <sub>t</sub> +10%P <sub>t</sub> ) [KW]
2.25	605.04.00	175	101	605.05.00	337	195	605.06.00	607	353	605.07.00	663	385
2.50	605.04.10	187	108	605.05.10	360	209	605.06.10	649	377	605.07.10	709	412
2.70	605.04.20	196	114	605.05.20	378	220	605.06.20	682	396	605.07.20	745	433
3.00	605.04.30	214	124	605.05.30	412	239	605.06.30	744	432	605.07.30	812	472
3.50	605.04.40	238	138	605.05.40	459	266	605.06.40	827	481	605.07.40	904	525
4.00	605.04.50	268	156	605.05.50	517	300	605.06.50	932	542	605.07.50	1019	592
4.50	605.04.60	289	167	605.05.60	556	323	605.06.60	1003	583	605.07.60	1096	636
5.00	605.04.70	317	184	605.05.70	612	355	605.06.70	1103	641	605.07.70	1205	700
5.40	605.04.80	339	197	605.05.80	654	380	605.06.80	1179	685	605.07.80	1288	748
6.00	605.04.90	374	217	605.05.90	720	418	605.06.90	1298	754	605.07.90	1418	824
Overpressure opening	Less than [10% of P <sub>t</sub> ] - collection R 2.2.9*					Backpressure		Atmospheric				
Closing discard	Less than [20% of P <sub>t</sub> ] - collection R 2.2.10*					Operating temperature		+5°C ± +110°C				
Max admissible pressure	P <sub>s</sub> = 12 bar					Fluid of use		Water - Air (group 2)				

#### CONTROLLED RISE STANDARD SAFETY RELIEF VALVES (Compliant with Directive PED 2014/68/EU)

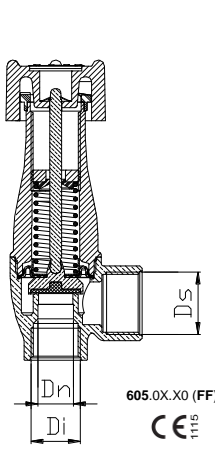

Φ Orifice	D <sub>N</sub> = 15mm								
Connections									Max Generator Potential P=P <sub>t</sub> +10%P <sub>t</sub> [KW]
Pressure Gauge Connection	Female 1/4" UNI-EN-ISO 228								
Φ Coupling	D <sub>I</sub> = 1/2"	D <sub>I</sub> = 3/4"	D <sub>I</sub> = 1/2"	D <sub>I</sub> = 1/2"	D <sub>I</sub> = 1/2"	D <sub>I</sub> = 3/4"	D <sub>I</sub> = 1/2"		
Φ Discharge	D <sub>S</sub> = 1/2"	D <sub>S</sub> = 3/4"	D <sub>S</sub> = 1/2"	D <sub>S</sub> = 3/4"	D <sub>S</sub> = 1/2"	D <sub>S</sub> = 3/4"	D <sub>S</sub> = 1/2"		
Calibration P <sub>t</sub> [bar]	Code		Code		Code		Code		
1.50	351.04.10	351.05.10	352.04.10	352.05.10	353.04.10	353.05.10	354.04.10	48	
2.00	351.04.20	351.05.20	352.04.20	352.05.20	353.04.20	353.05.20	354.04.20	55	
2.50	351.04.30	351.05.30	352.04.30	352.05.30	353.04.30	353.05.30	354.04.30	68	
3.00	351.04.40	351.05.40	352.04.40	352.05.40	353.04.40	353.05.40	354.04.40	75	
3.50	351.04.50	351.05.50	352.04.50	352.05.50	353.04.50	353.05.50	354.04.50	83	
4.00	351.04.60	351.05.60	352.04.60	352.05.60	353.04.60	353.05.60	354.04.60	96	
4.50	351.04.70	351.05.70	352.04.70	352.05.70	353.04.70	353.05.70	354.04.70	103	
5.00	351.04.80	351.05.80	352.04.80	352.05.80	353.04.80	353.05.80	354.04.80	109	
6.00	351.04.90	351.05.90	352.04.90	352.05.90	353.04.90	353.05.90	354.04.90	128	
7.00	351.04.71	351.05.71	352.04.71	352.05.71	353.04.71	353.05.71	354.04.71	148	
8.00	351.04.81	351.05.81	352.04.81	352.05.81	353.04.81	353.05.81	354.04.81	166	
10.00	351.04.11	351.05.11	352.04.11	352.05.11	353.04.11	353.05.11	354.04.11	181	
Opening overpressure	Less than [10% of P <sub>t</sub> ] - EN 4126-1					Backpressure		Atmospheric	
Closing discard	Less than [20% of P <sub>t</sub> ] - EN 4126-1					Operating temperature		+5°C ± +120°C	
Max admissible pressure	P <sub>s</sub> = 12 bar					Fluid of use		Water - Air (group 2)	

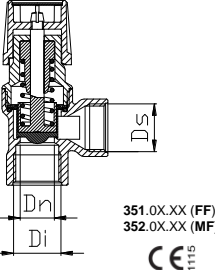

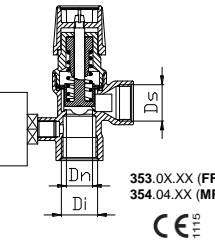

#### ACCESSORIES

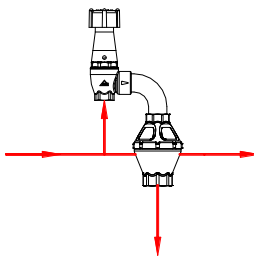
DRAIN CHANNEL	Code	Size
	666.05.00	3/4"
	666.06.00	1"
	666.07.00	1" 1/4"
	666.08.00	1" 1/2"

\* Technical specification in application of title II of Ministerial Decree enacted by the Italian Government of December 1 1975.

## FEATURES

CERTIFIED SAFETY RELIEF VALVES																																									
DIMENSIONAL FEATURES	CONSTRUCTION FEATURES																																								
 <p style="text-align: center;">605.0X.X0 (FF)                        INAIL</p>	<p>Body : brass                      Spring : galvanised steel                      Shutter Seal : EPDM PEROX                      Diaphragm : EPDM PEROX                      Connections : Angle                                        FF (Female-Female)                                        Threaded UNI-EN-ISO 228</p> <p style="text-align: center;"><b>TECHNICAL FEATURES</b></p> <p>Operating temperature: <math>+5 \leq T \leq +110^{\circ}\text{C}</math>                      Max Admissible Pressure: <math>P_S = 12</math> bar                      Calibration Pressure: <math>2.25 &lt; P_t \leq 6</math> bar (see initial tab.)                      Backpressure : Atmospheric                      Opening overpressure : less than [10% of <math>P_t</math>]                      Closing discard : less than [20% of <math>P_t</math>]                      Orifice diameter : <math>15 \leq D_n \leq 32</math>mm (see initial tab.)                      Net section (A) : <math>1.7 &lt; A &lt; 8.1</math>cm<sup>2</sup> (see initial tab.)                      Discharge coefficient: <math>0.50 \leq K \leq 0.75</math> (see initial tab.)                      Max potential                      Generator : 101÷824 KW (see initial tab.)                      Fluid of use : water- air (Group 2)</p>																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>Di</th> <th>Ds</th> <th>A [mm]</th> <th>B [mm]</th> <th>C [mm]</th> <th>D [mm]</th> <th>E [mm]</th> </tr> </thead> <tbody> <tr> <td>605.04.X0</td> <td>½"</td> <td>¾"</td> <td>42</td> <td>102</td> <td>24</td> <td>36.5</td> <td>19.5</td> </tr> <tr> <td>605.05.X0</td> <td>¾"</td> <td>1"</td> <td>42</td> <td>140</td> <td>29</td> <td>46</td> <td>27</td> </tr> <tr> <td>605.06.X0</td> <td>1"</td> <td>1¼"</td> <td>56</td> <td>157</td> <td>34</td> <td>55</td> <td>31</td> </tr> <tr> <td>605.07.X0</td> <td>1¼"</td> <td>1½"</td> <td>56</td> <td>187</td> <td>41</td> <td>60</td> <td>36</td> </tr> </tbody> </table>	Code	Di	Ds	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	605.04.X0	½"	¾"	42	102	24	36.5	19.5	605.05.X0	¾"	1"	42	140	29	46	27	605.06.X0	1"	1¼"	56	157	34	55	31	605.07.X0	1¼"	1½"	56	187	41	60	36	
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STANDARD SAFETY RELIEF VALVES																																				
DIMENSIONAL FEATURES	CONSTRUCTION FEATURES																																			
 <p style="text-align: center;">351.0X.XX (FF)                      352.0X.XX (MF)  </p>	<p>Body : brass                      Spring : AISI 302 stainless steel                      Shutter Seal : EPDM PEROX                      Diaphragm : EPDM PEROX                      Connections : Angle                                        FF or MF (Male-Female)                                        Threaded UNI-EN-ISO 228</p> <p>Pressure Gauge Connection                      (for relative valves) : F ¼" UNI-EN-ISO 228</p> <p style="text-align: center;"><b>TECHNICAL FEATURES</b></p> <p>Operating temperature: <math>+5 \leq T \leq +120^{\circ}\text{C}</math>                      Max Admissible Pressure: <math>P_S = 12</math> bar                      Calibration pressure: <math>1.5 \leq P_t \leq 10</math> bar (see initial tab.)                      Backpressure : Atmospheric                      Opening overpressure : less than [10% of <math>P_t</math>]                      Closing discard : less than [20% of <math>P_t</math>]                      Orifice diameter : <math>D_n = 15</math> mm (see initial tab.)                      Net section (A) : <math>A = 1.76</math> cm<sup>2</sup> (see initial tab.)                      Max potential                      Generator : 48÷181 Kw (see initial tab.)                      Fluid of use : water- air (Group 2)</p>																																			
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ACCESSORIES - DRAIN CHANNEL																															
DIMENSIONAL FEATURES	CONSTRUCTION FEATURES																														
	<p>Body : brass</p> <p>Connections                      - channel : MM (Male-Male);                                        Threaded UNI-EN-ISO 228;                      - funnel : FF (Female-Female);                                        Threaded UNI-EN-ISO 228;</p> <p style="text-align: center;"><b>TECHNICAL FEATURES</b></p> <p>Max temperature : 110°C</p>																														
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Code</th> <th>Size</th> <th>A [mm]</th> <th>B [mm]</th> <th>C [mm]</th> <th>D [mm]</th> </tr> </thead> <tbody> <tr> <td>666.05.00</td> <td>¾"</td> <td>98.5</td> <td>67</td> <td>60</td> <td>53.5</td> </tr> <tr> <td>666.06.00</td> <td>1"</td> <td>124</td> <td>84.5</td> <td>67.5</td> <td>58</td> </tr> <tr> <td>666.07.00</td> <td>1¼"</td> <td>147</td> <td>99</td> <td>75</td> <td>58</td> </tr> <tr> <td>666.08.00</td> <td>1½"</td> <td>170</td> <td>115</td> <td>75</td> <td>67</td> </tr> </tbody> </table>	Code	Size	A [mm]	B [mm]	C [mm]	D [mm]	666.05.00	¾"	98.5	67	60	53.5	666.06.00	1"	124	84.5	67.5	58	666.07.00	1¼"	147	99	75	58	666.08.00	1½"	170	115	75	67	
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<p>- Example of channel use -</p>																															

## DESCRIPTION

### Description of appliance:

The valve is a safety accessory according to the definition of PED Directive 2014/68/EU of the type "direct pressure limitation" and has been built in compliance with standard EN 4126-1 and the "R Collection" of ISPEL technical standards (only series 605 valve).

The gasket sealing the cut-off valve is built with materials suitable to guarantee resistance to wear and without sticking to the housing, even when operating for long periods of time.

The immovable plate prevents unintentional tampering with valve calibration and bears the calibration value, the product code, DN, TS, PS, Kw, discharge pressure, usable fluids group, batch identification, progressive construction number, year of manufacture.

### Description of operation:

When there is an over-pressure of no more than 10% the value of the calibration pressure, the valve opens a discharge orifice (the force generated by the pressure overcomes the resistance exerted by the valve spring), allowing part of the fluid to be discharged and thereby lower the pressure inside the system.

This orifice is closed by a spring when the pressure value drops to a value within a maximum of 20% Pt.

Triggering of the safety valve is guaranteed even if the diaphragm breaks.

Turning the hand wheel anticlockwise opens and closes the discharge orifice.

The valve is supplied with a threaded part after the discharge orifice where a unit (supplied separately) which visually controls that the valve has triggered is mounted.

### Certified safety relief valves (Series 605)

#### USE

These are mainly used to control the pressure of heat generators. In hot water production systems with a temperature of less than 100°C and with potential of more than 35 Kw transferred to the water, the functional characteristics of the certified safety relief valve fulfill the requirements of MD 1.12.75, of the attached "Collection R" technical specification and of directive PED 2014/68/EU.

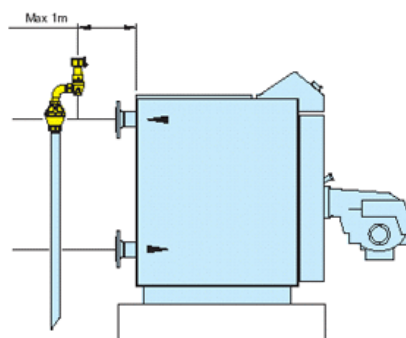
#### INSTALLATION CRITERIA

For heating systems with nominal power over 35 Kw, the certified safety relief valve must be installed, with direct connection, on the highest part of the body of the boiler or, alternatively, on the delivery pipe to the system, within 1 m from the generator, as required by MD 1.12.75 - Title II - collection R point 3.B 2.4.

#### WARNINGS

Every certified safety relief valve, with approved prototype, features an anti-tampering plate and comes with a calibration report (a document certifying bench calibration conducted before an INAIL technician who stamps and signs the report of each single valve) and declaration of conformity.

The valve is only considered suitable if it comes with an original calibration report and declaration of conformity, documents that need to be kept on file by the user. Losing or removing (including accidental) the documents, the plate or the engraved data will void all product certifications and warranties. These certificates cannot be duplicated.



### Standard safety relief valves (Series 351 - 352 - 353 - 354)

#### USE

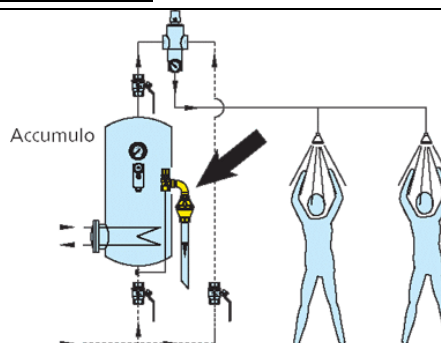
These are mainly used to control the pressure in hydraulic circuits and heat generators with a useful thermal power of less than 35 Kw and in all cases not requiring the use of a certified valve.

For hot water storage heaters intended for consumption, it is possible to use valves manufactured according to the requirements set forth by MD 1.12.75 and by "Collection R" technical specification (R.1.A3).

#### CHOICE

To choose a standard safety relief valve for the protection of hot water heaters, it is necessary to observe the following requirements:

- orifice diameter of no less than 15mm (for a storage heater with Volume<sub>max</sub> = 1125 litres)
- calibration pressure not exceeding the maximum operating pressure.



***In any case, for the correct use and the correct location of the safety relief valves, always refer to the regulation and specific legislation in force: this document only underlines the most important requirements.***

## CERTIFICATIONS - STANDARD REFERENCES

- **Directive PED 2014/68/EU (Valves Series 351 - 352 - 353 - 354 - 605):**  
Consult declarations of conformity No. *DC0351.0* and *DC0605.0* available at [www.rbm.eu](http://www.rbm.eu)
- **M.D. 01 December 1975 and INAIL certification (ex ISPEL) (Valves Series 605):**  
Safety relief valve bench calibration report conducted at the manufacturer's according to Collection "R" technical specifications in application of M.D. 01/12/75.

## GENERAL WARNINGS FOR INSTALLATION AND USE

- The safety valve must be mounted on the system paying attention to the direction of flow specifically indicated on the body.
- The safety valve must be mounted on the top of the storage tank making sure it completely emerges in it (standard valve Series 351 - 352 - 353 - 354)
- The safety valve must be mounted on the supply pipes at a maximum distance of 1m from the generator (certified valve Series 605).
- The safety valve can be mounted both horizontally and vertically, making sure the discharge does not face upwards.
- The inside diameters of the fluid supply and discharge pipes of the safety valve must be no less than their DN.
- The pipes or accessories used to transport discharged fluids must not create bending moments which jeopardise triggering of the valve.
- The equipment, pipes or accessories used to transport fluids must be free at the threadings from residue of prior preparations or processes especially when the water contains inhibitors capable of developing amines.
- Intentional tampering with the calibration value makes it impossible for the valve to perform the safety function for which it was designed.
- The safety unit should be opened manually once a year to check its efficiency.
- In the event of fluid leakage, pay great attention to interventions on the valve, taking the necessary precautionary measures, especially in the presence of very high operating temperatures.
- When the cut-off valve has difficulty restoring its sealing features, after discharge interventions, perform some opening and closing manoeuvres by manually turning the hand wheel of the valve anticlockwise, thus cleaning the concerned parts.
- If the RBM safety valve is not installed and kept in a suitable place, it does not lose its functional and performance features.
- The RBM safety valve must be installed by qualified technicians.
- The valve must be inspected periodically starting from the commissioning date, at a frequency established by legislation in force.

The instructions herein must be complied with mandatorily.

## SPECIFICATION ITEMS

### **SERIES 605**

Calibrated and certified safety relief valve with diaphragm and controlled rise for fluids and neutral gases. Brass body. Galvanised steel spring. EPDM PEROX shutter seal. EPDM PEROX diaphragm. Threaded angle connections FF UNI-EN-ISO 228. Max operating pressure 110 °C. Opening overpressure +10 %. Closing discard pressure -20%. Max admissible pressure Ps 12 bar. Allowed fluid water-air (Gr.2). INAIL (ex ISPESL) bench calibration certificate. Compliant with Directive PED 2014/68/EU. Available calibrations (bar): 2.25 - 2.50 - 2.70 - 3.00 - 3.50 - 4.00 - 4.50 - 5.00 - 5.40 - 6.00. Available connections 1/2"x3/4" - 3/4"x1" - 1"x1"1/4" - 1"1/4x1"1/2.

### **SERIES 351**

Standard safety relief valve with diaphragm with controlled rise for fluids and neutral gases. Connection FF 1/2"x1/2" and 3/4"x3/4". Brass body. AISI 302 stainless steel spring. EPDM PEROX shutter seal. EPDM PEROX diaphragm. Threaded angle connections FF UNI-EN-ISO 228. Max admissible pressure Ps 12 bar. Max. operating pressure 120 °C. Orifice diameter 15 mm. Opening overpressure +10 %. Closing discard pressure -20%. Allowed fluid water-air (Gr.2). Compliant with Directive PED 2014/68/EU. Available calibrations (bar): 1.50 - 2.00 - 2.50 - 3.00 - 3.50 - 4.00 - 4.50 - 5.00 - 6.00 - 7.00 - 8.00 - 10.00.

### **SERIES 352**

Standard safety relief valve with diaphragm with controlled rise for fluids and neutral gases. Connection MF 1/2"x1/2" and 1/2"x3/4". Brass body. AISI 302 stainless steel spring. EPDM PEROX shutter seal. EPDM PEROX diaphragm. Threaded angle connections MF UNI-EN-ISO 228. Max admissible pressure Ps 12 bar. Max. operating pressure 120 °C. Orifice diameter 15 mm. Opening overpressure +10 %. Closing discard pressure -20%. Allowed fluid water-air (Gr.2). Compliant with Directive PED 2014/68/EU. Available calibrations (bar): 1.50 - 2.00 - 2.50 - 3.00 - 3.50 - 4.00 - 4.50 - 5.00 - 6.00 - 7.00 - 8.00 - 10.00.

### **SERIES 353**

Standard safety relief valve with diaphragm with controlled rise for fluids and neutral gases, with dial pressure gauge. Connection FF 1/2"x1/2" and 3/4"x3/4". Brass body. AISI 302 stainless steel spring. EPDM PEROX shutter seal. EPDM PEROX diaphragm. Threaded angle connections FF UNI-EN-ISO 228. Pressure gauge connection F 1/4" UNI-UN-ISO 228. Max admissible pressure Ps 12 bar. Max. operating pressure 120 °C. Orifice diameter 15 mm. Opening overpressure +10 %. Closing discard pressure -20%. Allowed fluid water-air (Gr.2). Pressure gauge scale 0 ÷ 4 bar for valves < 4 bar and 0 ÷ 10 bar for valves > 4 bar. Compliant with Directive PED 2014/68/EU. Available calibrations (bar): 1.50 - 2.00 - 2.50 - 3.00 - 3.50 - 4.00 - 4.50 - 5.00 - 6.00 - 7.00 - 8.00 - 10.00.

### **SERIES 354**

Standard safety relief valve with diaphragm with controlled rise for fluids and neutral gases, with dial pressure gauge. Connection MF 1/2"x1/2". Brass body. AISI 302 stainless steel spring. EPDM PEROX shutter seal. EPDM PEROX diaphragm. Threaded angle connections MF UNI-EN-ISO 228. Pressure gauge connection F 1/4" UNI-UN-ISO 228. Max admissible pressure Ps 12 bar. Max. operating pressure 120 °C. Orifice diameter 15 mm. Opening overpressure +10 %. Closing discard pressure -20%. Allowed fluid water-air (Gr.2). Pressure gauge scale 0 ÷ 4 bar for valves < 4 bar and 0 ÷ 10 bar for valves > 4 bar. Compliant with Directive PED 2014/68/EU. Available calibrations (bar): 1.50 - 2.00 - 2.50 - 3.00 - 3.50 - 4.00 - 4.50 - 5.00 - 6.00 - 7.00 - 8.00 - 10.00.

### **SERIES 666**

Drain channel composed of fitting elbow and collection funnel to reset back pressure at drainage. Brass body. Channel connections MM UNI-EN-ISO 228. Funnel connections FF UNI-EN-ISO 228. Max operating pressure 110 °C. Available diameters 3/4" - 1" - 1"1/4 - 1"1/2.



RBM spa reserves the right to improve and change the described products and related technical data at any moment and without prior notice: always refer to the instructions attached with the supplied components; this sheet is an aid, should the instructions be extremely schematic. Our technical department is always at your disposal for any doubt, problem or clarification.

  
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