

0488 • 1/2"

0489 • 1/2"

PRESET SAFETY VALVES WITH GAUGE CONNECTION, DIAPHRAGM AND HANDWHEEL ACTIVATION
LIGHT MODEL CE-0425 IN COMPLIANCE WITH DIRECTIVE PED 2014/68/EU

CONNECTIONS: FEMALE - FEMALE
 MALE - FEMALE



0488



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DESCRIPTION

The **LIGHT** model safety valve with handwheel activation is an automatic safety valve designed to open in the event the internal pressure of the system, which can be monitored by a gauge, if installed, reaches a predetermined maximum pressure (Preset Nominal Pressure Pnr) allowing the water to be released through it. The pressure safety valve resets automatically when the internal pressure of the system returns below the predetermined maximum pressure. All the moving parts of this safety valve, including the regulating spring, are isolated from heat-transfer fluids by an industrial rubber diaphragm. The handwheel enables the valve to open even at pressures lower than the calibration value, thus allowing the verification of its proper operation at any time. The **LIGHT** model safety valve with handwheel activation satisfies the essential safety requirements stipulated in the EU Pressure Equipment Directive (PED) 2014/68/EU.

TECHNICAL FEATURES

Pressure:	
maximum allowable pressure (PN)	10 bar
preset nominal pressure (Pnr)	3 - 6 bar (factory set and sealed)
minimum accumulation pressure (Pc)	Pnr -5%
overpressure (Po)	Pnr +10%
reset value (Pf)	Pnr -20%
Temperature:	
maximum temperature	115°C (water or air - Class 2 liquids)
Compatible fluids:	
heat transfer fluids	in compliance with Italian national standards UNI 8065 § 6
glycolate solutions	glycol 50%
Threadings:	
pipeline connections	threads according to ISO 228/1
gauge connection	threads according to EN 10226- Rp1/4"
Requirements and tests as per:	EN 1489

PED TECHNICAL REQUIREMENTS

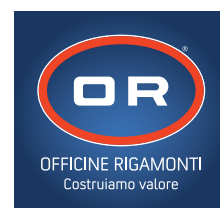
Maximum allowable temperature (Ts)	115°C (water or air - Class 2 liquids)
Maximum allowable pressure (Ps)	10 bar
Conformity assessment procedures	modules B+D
PED risk category	IV (CE 0425)
Flow coefficient	K (water) = 0,3083 K (air) = 0,4008 "K" performances in according to ISO 4126-7:2016

DESIGN

Body	brass CW617N
Head valve	polyamide reinforced with glass fiber
Handwheel	polyamide
Diaphragm	rubber EPDM perox (peroxide cured)
Spring	steel EN 10270 - 1 SM

PRODUCT CODES

0488.130	setting 3 bar	1/2"	F/F	0489.130	setting 3 bar	1/2"	M/F
0488.160	setting 6 bar	1/2"	F/F	0489.160	setting 6 bar	1/2"	M/F



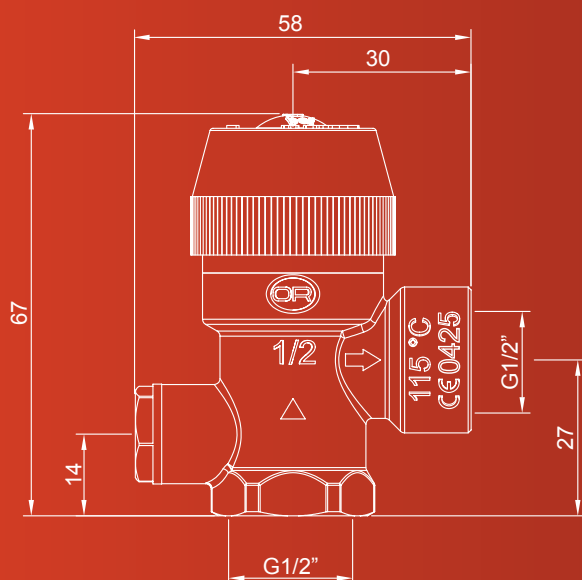
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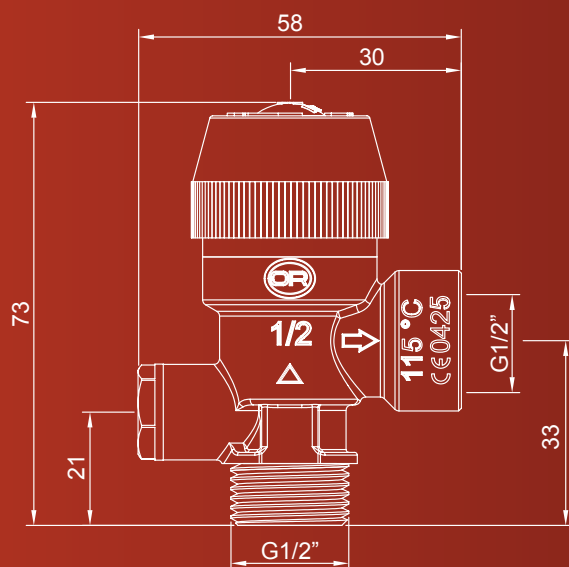
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SETTINGS

Discharging Flow

P set	H ₂ O (l/h)	Gas (kg/h)
3	4072	210
6	5767	370