0487 • 1/2"x1/2"

0487 • 1/2"x3/4"

0487 • 3/4"x3/4"



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

**CONNECTIONS:** 

FEMALE - FEMALE



#### **DESCRIPTION**

The LIGHT model safety valve with manual handwheel is an automatic safety valve designed to open in the event the internal pressure of the system exceeds a predetermined maximum pressure (Preset Nominal Pressure: Pnr) allowing the water to discharge through it. The safety valve resets automatically preventing any further fluid flow 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 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 diaphragm and handwheel activation satisfies the essential safety requirements stipulated in the EU Pressure Equipment Directive PED 2014/68/UE (Pressure Equipment Directive).

## **TECHNICAL FEATURES**

Pressure:

maximum allowable working pressure (PN) preset nominal pressure (Pnr)

minimum accumulation pressure (Pc)

overpressure (Po) reset value (Pf) Temperature:

maximum temperature

Threadings:

pipeline connections

Compatible fluids:

heat transfer fluids in compliance with Italian national standards conf. UNI 8065 § 6

glycolate solutions

Requirements and tests as per:

Certification:

10 har

1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 5 - 6 - 7 - 8 bar (factory set and sealed)

Pnr -5% Pnr+10% Pnr -20%

115 °C (water or air - Class 2 liquids)

threads according to. ISO 228/1

glycol 50% FN 1489

\*WRAS (only code 0487.160)

# PED TECHNICAL REQUIREMENTS

Maximum allowable temperature (Ts) Maximum allowable working pressure (Ps)

Conformity assessment procedures PED risk category

Flow coefficient

115°C (water or air - Class 2 liquids)

10 bar modules B+D IV (CE 0425) K (water) = 0.3083K (air) = 0,4008

"K" performances in according to ISO 4126-7:2016

### **DESIGN**

brass CW617N Body polyamide reinforced with glass fiber Bonnet

Handwheel polyamide Diaphragm EPDM perox Spring

from 1,5 to 6 bar steel EN 10270 - 1 SM from 7 to 8 bar steel EN 10270 - 3 NS

#### PPODLICT CODES

TRODUCT CODES		
0487.115 setting 1,5 bar 1/2" x 1/2" f/f	0487.117 setting 1,5 bar 1/2" x 3/4" f/f	0487.215 setting 1,5 bar 3/4" x 3/4" f/f
0487.120 setting 2 bar 1/2" x 1/2" f/f	0487.122 setting 2 bar 1/2" x 3/4" f/f	0487.220 setting 2 bar 3/4" x 3/4" f/f
0487.125 setting 2,5 bar 1/2" x 1/2" f/f	0487.127 setting 2,5 bar 1/2" x 3/4" f/f	0487.225 setting 2,5 bar 3/4" x 3/4" f/f
0487.130 setting 3 bar 1/2" x 1/2" f/f	0487.132 setting 3 bar 1/2" x 3/4" f/f	0487.230 setting 3 bar 3/4" x 3/4" f/f
0487.140 setting 4 bar 1/2" x 1/2" f/f	0487.142 setting 4 bar 1/2" x 3/4" f/f	0487.235 setting 3,5 bar 3/4" x 3/4" f/f
0487.150 setting 5 bar 1/2" x 1/2" f/f	0487.152 setting 5 bar 1/2" x 3/4" f/f	0487.240 setting 4 bar 3/4" x 3/4" f/f
0487.160 setting 6 bar 1/2" x 1/2" f/f	0487.162 setting 5 bar 1/2" x 3/4" f/f	0487.250 setting 5 bar 3/4" x 3/4" f/f
3	3	0487.260 setting 6 bar 3/4" x 3/4" f/f
0487.170 setting 7 bar 1/2" x 1/2" f/f	0487.172 setting 7 bar 1/2" x 3/4" f/f	0487.270 setting 7 bar 3/4" x 3/4" f/f
0487.180 setting 8 bar 1/2" x 1/2" f/f	0487.182 setting 8 bar 1/2" x 3/4" f/f	0487.280 setting 8 bar 3/4" x 3/4" f/f



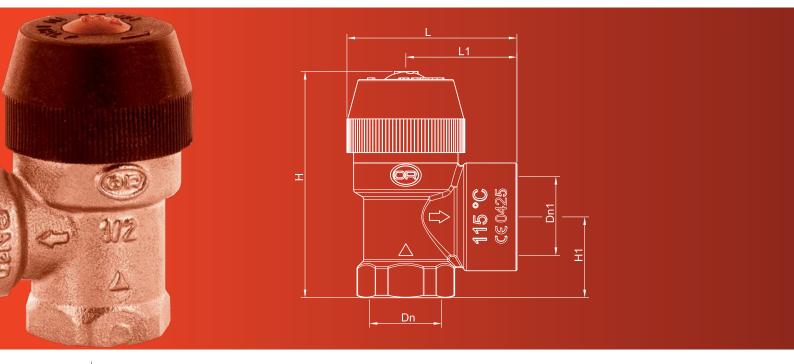
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CONNECTIONS: FEMALE - FEMALE



## **FEATURES**

Dn	Dn1	L [mm]	L1 [mm]	H [mm]	H1 [mm]
1/2"	1/2"	48	30	61	21
1/2"	3/4"	50	33	65	24
3/4"	3/4"	50	33	62	31

## **SETTINGS**

# Discharging Flow

P set	H <sub>2</sub> O (l/h)	Gas (kg/h)
1,5	2874	132
2	3321	160
2,5	3715	187
3	4072	215
3,5	4400	242
4	4705	269
5	5262	324
6	5767	379
7	6231	434
8	6662	489

