

SECURITY VALVES WITH PRESET PRESSURE WITH DIAPHRAGM AND HANDWHEEL
ACTIVATION "LIGHT" MODEL CE- 1115 IN COMPLIANCE WITH DIRECTIVE PED 97/23/EC

CONNECTIONS: MALE - FEMALE



HYDRAULIC FEATURES

The "LIGHT" model security valve with manual handwheel is an automatic safety valve designed to open in the event the internal pressure of the system reaches a predetermined maximum pressure (Preset Nominal Pressure: Pnr) allowing the water to be released through it. The security 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 "LIGHT" model security valve with manual handwheel satisfies the essential safety requirements stipulated in the EU Pressure Equipment Directive (PED) 97/23/EC.

TECHNICAL FEATURES

Pressure:

Maximum allowable working pressure (PN)

10 bar

Preset nominal pressure (Pnr)

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

Minimum accumulation pressure (Pc)

- 5 % of the Pnr

Overpressure (Po)

10% of the Pnr

Reset value (Pf)

- 20 % of the Pnr

Temperature:

Maximum temperature

115°C (water or air - Class 1 Liquids)

Threading:

Pipeline connection

Threads according to ISO 228/1

Compatible fluids:

Heat transfer fluids in compliance with Italian national standards

(UNI 8065 § 6)

Glycolate solutions

(glycol) 50%

Requirements and tests as per:

EN 1489

PED TECHNICAL REQUIREMENTS

Maximum allowable temperature (TS)

115°C (water or air - Class 1 Liquids)

Maximum allowable working pressure (PS)

10 bar

Conformity assessment procedures

modules B and D

PED risk category

IV (CE 1115)

Flow Coefficient

(K) = 0.05 - Classified as an "Ordinary Valve" by the ISPESL

(Italian Institute for Occupational Safety Prevention)

DESIGN

Brass Body EN 12165 - CW617N

Head valve in PA66-GF30 polyamide (nylon 66) reinforced with glass fiber

Handwheel in PA66 polyamide (nylon)

Diaphragm in 70 Sh preshaped EPDM rubber (peroxide cured)

Sm GALVANIZED STEEL spring - EN 10270-1

PRODUCT CODES

0485.115 setting 1.5 bar 1/2" m/f

0485.125 setting 2.5 bar 1/2" m/f

0485.130 setting 3 bar 1/2" m/f

0485.140 setting 4 bar 1/2" m/f

0485.150 setting 5 bar 1/2" m/f

0485.160 setting 6 bar 1/2" m/f

0487.170 setting 7 bar 1/2" m/f

0487.180 setting 8 bar 1/2" m/f

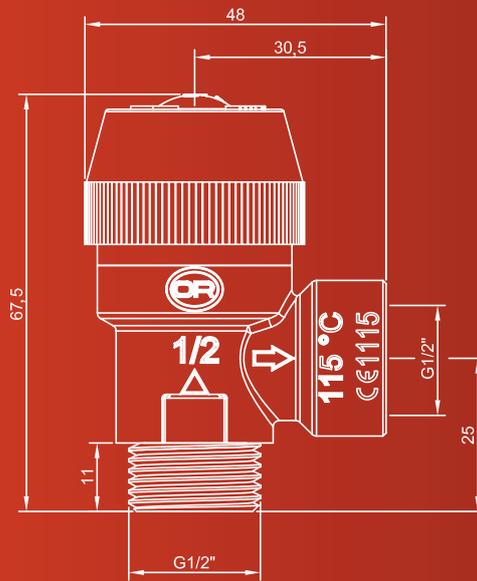


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0485 • 1/2"

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SETTINGS

P set	Discharging flow 1/2 "		
	H ₂ O(L/h)	Steam (kg/h)	Gas (kg/h)
1.5	632,9	9,0	13,4
2.5	748,6	12,5	18,7
3	801,4	14,2	21,3
4	896,0	17,7	26,7
5	981,5	21,1	32,0
6	1060,1	24,5	37,3
7	1133,3	27,9	42,7
8	1202	31,3	48,0