

PRESET SAFETY VALVES WITH DIAPHRAGM AND LEVER ACTIVATION CE-0425 IN COMPLIANCE WITH DIRECTIVE PED 2014/68/EU

CONNECTIONS:

MALE - FEMALE



DESCRIPTION

The safety valve with lever activation is an automatic safety valve designed to open in the event the internal pressure of the system exceeds the value for which it was designed (Preset Nominal Pressure Pnr), allowing the water to be released through it. The safety valve resets automatically when the internal pressure of the system returns below the preset nominal pressure of the valve. All the moving parts of this safety valve are isolated from the fluids by an industrial rubber diaphragm. The lever activation allows the opening of the valve at pressure values lower than the setting one, in order to check at any time its functioning. The safety valve with lever activation satisfies the essential safety requirements stipulated in the EU Pressure Equipment Directive (PED) 2014/68/EU.

TECHNICAL FEATURES

Pressure:

maximum allowable working pressure (PN)

preset nominal pressure (Pnr)

minimum seal (Pc)

overpressure (Po)

reset value (Pf)

Temperature:

maximum temperature

Compatible fluids:

heat transfer fluids

glycolate solutions

Threading:

pipeline connection

Requirements and tests as per:

10 bar

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 fluids)

in compliance with Italian national standards UNI 8065 § 6

glycol 50%

threads according to ISO 228/1

EN 1489

PED TECHNICAL REQUIREMENTS

Maximum allowable temperature (TS)

Maximum allowable working pressure (PS)

Conformity assessment procedures

PED risk category

Flow coefficient

DN15

DN20/25

115°C (water or air - Class 2 fluids)

10 bar

modules B and D

IV (CE 0425)

K(water)=0,1723

K(air)=0,7027

K(water)=0,2000

K(air)=0,2583

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

DESIGN

Body and head valve

Other components in brass

Lever

Diaphragm

Spring

brass CW617N

brass CW614N

stainless steel AISI 304

EPDM Perox rubber

from 1,5 to 3,5 steel EN 10270-1 SM

from 4 to 8 steel EN 10270-1 DH

PRODUCT CODES

Product codes 1/2"

0490.115	setting	1,5 bar m/f
0490.120	setting	2 bar m/f
0490.125	setting	2,5 bar m/f
0490.130	setting	3 bar m/f
0490.135	setting	3,5 bar m/f
0490.140	setting	4 bar m/f
0490.150	setting	5 bar m/f
0490.160	setting	6 bar m/f
0490.170	setting	7 bar m/f
0490.180	setting	8 bar m/f

Product codes 3/4"

0490.215	setting	1,5 bar m/f
0490.220	setting	2 bar m/f
0490.225	setting	2,5 bar m/f
0490.230	setting	3 bar m/f
0490.235	setting	3,5 bar m/f
0490.240	setting	4 bar m/f
0490.250	setting	5 bar m/f
0490.260	setting	6 bar m/f
0490.270	setting	7 bar m/f
0490.280	setting	8 bar m/f

Product codes 1"

0490.315	setting	1,5 bar m/f
0490.320	setting	2 bar m/f
0490.325	setting	2,5 bar m/f
0490.330	setting	3 bar m/f
0490.335	setting	3,5 bar m/f
0490.340	setting	4 bar m/f
0490.350	setting	5 bar m/f
0490.360	setting	6 bar m/f
0490.370	setting	7 bar m/f
0490.380	setting	8 bar m/f

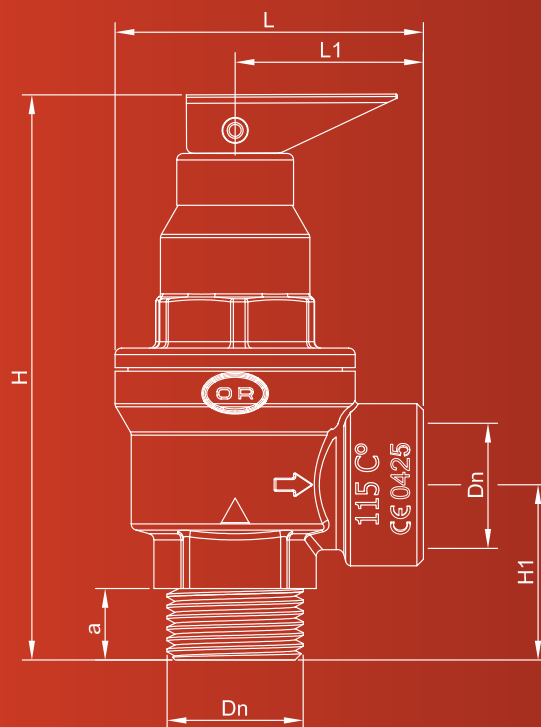


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0490 • 1/2" ÷ 1"

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FEATURES

Dn	L [mm]	L1 [mm]	H [mm]	H1 [mm]	a [mm]
1/2"	48	29	87	27	11
3/4"	57	34	96	28	12
1"	74	44	139	39	13

SETTING

Valve 1/2"			Valve 3/4"			Valve 1"		
Discharging flow			Discharging flow			Discharging flow		
P set	H ₂ O (l/h)	Gas (kg/h)	P set	H ₂ O (l/h)	Gas (kg/h)	P set	H ₂ O (l/h)	Gas (kg/h)
1,5	1722	244	1,5	4091	183	1,5	5898	263
2	1990	294	2	4728	221	2	6815	318
2,5	2226	345	2,5	5289	259	2,5	7623	372
3	2440	395	3	5796	296	3	8354	427
3,5	2637	446	3,5	6262	334	3,5	9026	482
4	2820	496	4	6697	372	4	9652	536
5	3155	598	5	7490	448	5	10795	645
6	3457	699	6	8208	524	6	11829	755
7	3736	800	7	8868	600	7	12781	864
8	3995	901	8	9483	676	8	13666	973