

PRESET SAFETY VALVES WITH DIAPHRAGM AND HANDWHEEL ACTIVATION - TÜV CERTIFIED
CE – 1936 IN COMPLIANCE WITH DIRECTIVE PED 2014/68/EU – RISK CATEGORY IV

CONNECTIONS: FEMALE - FEMALE



CLASS H



CLASS W

DESCRIPTION

The safety valve with manual handwheel 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 fluid 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, including the spring, are isolated from the fluid by an industrial rubber diaphragm. The increased discharge confronted to the inlet gives the safety valve a high discharge flow capacity. The manual handwheel allows the opening of the valve at pressure values lower than the setting value, in order to check at any time its functioning. The safety valve with manual handwheel satisfies the essential safety requirements stipulated in the EU Pressure Equipment Directive PED 2014/68/EU.

PERFORMANCES

CLASS H

Safety valves classified with the letter H
for heating systems for water according to DIN EN 12828

Pressure:

preset nominal pressure (Pnr) factory set and sealed 2,5 - 3 bar
minimum sealing pressure (Pc) Pnr - 0,20 bar
maximum opening pressure (Po) Pnr + 0,20 bar
re-closing pressure (Pf) Pnr - 0,50 bar

Compatible fluids:

heat transfer fluids according to UNI 8065 § 6
glycolate solutions glycol 50%

Threading:

pipeline connections according to EN 10226-1

Certifications:

ACS

TÜV

According to standards

Directive 2014/68/UE
DIN EN ISO 4126-1: Nat. Appendix NA
DIN EN 12828 annex E VdTÜV-Mbl SV 100
and technical data sheet VdTÜV "General 002"
TRD 721 section 7.

CLASS W

Safety valves classified with the letter W
for heating systems for water according to DIN EN 12897
Suitable for drinking water systems

Pressure:

preset nominal pressure (Pnr) factory set and sealed 4 - 5 - 6 - 7 - 8 - 9 - 10 bar
minimum sealing pressure (Pc) Pnr - 5 %
maximum opening pressure (Po) Pnr + 5 %
re-closing pressure (Pf) Pnr - 25 %

Compatible fluids:

heat transfer fluids according to UNI 8065 § 6
glycolate solutions glycol 50%

Threading:

pipeline connections according to EN 10226-1

Certifications:

ACS

TÜV

According to standards

TÜV certified 95°C
Directive 2014/68/EU;
DIN EN 1491; VdTÜV-Mbl SV 100:
Specifically section 3.8
and annex I n. 5.2; TRD 721: section 8.

PED TECHNICAL REQUIREMENTS

CLASS H and W

Maximum allowable temperature (Ts) 115°C (water or air – Class 2 fluids)
Maximum allowable pressure (Ps) 10 bar
Conformity assessment procedures modules B+D
Risk category PED IV (CE 1936 marking)

DESIGN

Body brass
Handwheel resin
Diaphragm EPDM
Spring galvanized steel

PRODUCT CODES

CLASS H

0477.127 setting 2,5 bar 1/2"x3/4" f/f
0477.132 setting 3 bar 1/2"x3/4" f/f
0477.227 setting 2,5 bar 3/4"x1" f/f
0477.232 setting 3 bar 3/4"x1" f/f
0477.327 setting 2,5 bar 1"x1"1/4 f/f
0477.332 setting 3 bar 1"x1"1/4 f/f
0477.427 setting 2,5 bar 1"1/4x1"1/2 f/f
0477.432 setting 3 bar 1"1/4x1"1/2 f/f

CLASS W

0477.142 setting 4 bar 1/2"x3/4" f/f
0477.152 setting 5 bar 1/2"x3/4" f/f
0477.162 setting 6 bar 1/2"x3/4" f/f
0477.172 setting 7 bar 1/2"x3/4" f/f
0477.182 setting 8 bar 1/2"x3/4" f/f
0477.192 setting 9 bar 1/2"x3/4" f/f
0477.199 setting 10 bar 1/2"x3/4" f/f
0477.242 setting 4 bar 3/4"x1" f/f
0477.252 setting 5 bar 3/4"x1" f/f
0477.262 setting 6 bar 3/4"x1" f/f
0477.272 setting 7 bar 3/4"x1" f/f
0477.282 setting 8 bar 3/4"x1" f/f
0477.292 setting 9 bar 3/4"x1" f/f
0477.299 setting 10 bar 3/4"x1" f/f
0477.342 setting 4 bar 1"x1"1/4 f/f
0477.352 setting 5 bar 1"x1"1/4 f/f
0477.362 setting 6 bar 1"x1"1/4 f/f
0477.372 setting 7 bar 1"x1"1/4 f/f
0477.382 setting 8 bar 1"x1"1/4 f/f
0477.392 setting 9 bar 1"x1"1/4 f/f
0477.399 setting 10 bar 1"x1"1/4 f/f
0477.442 setting 4 bar 1"1/4x1"1/2 f/f
0477.452 setting 5 bar 1"1/4x1"1/2 f/f
0477.462 setting 6 bar 1"1/4x1"1/2 f/f
0477.472 setting 7 bar 1"1/4x1"1/2 f/f
0477.482 setting 8 bar 1"1/4x1"1/2 f/f
0477.492 setting 9 bar 1"1/4x1"1/2 f/f
0477.499 setting 10 bar 1"1/4x1"1/2 f/f

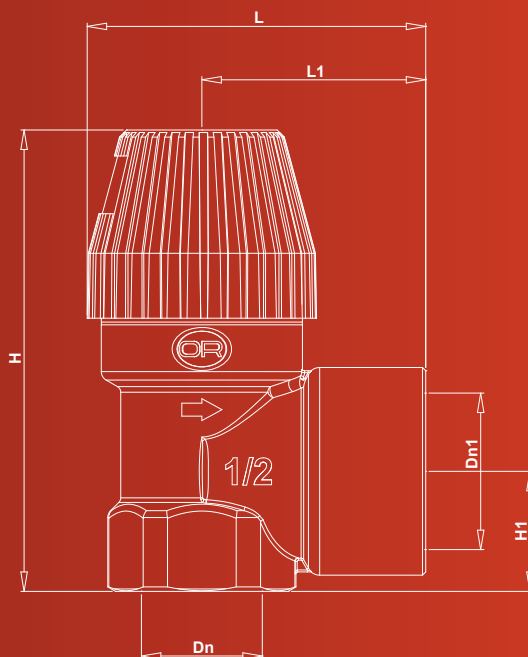


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FEATURES

Dn	Dn1	L [mm]	L1 [mm]	H [mm]	H1 [mm]
1/2"	3/4"	52	35	76	24
3/4"	1"	56	38	85	34
1"	1"1/4	85	55	116	41
1"1/4	1"1/2	85	55	117	42

CLASS H

	kW [maximum thermal power of the system]	Flow Coefficient k(air) values "k" according to ISO 4126-7:2016
DN15 2,5 - 3 bar	50	0,607
DN20 2,5 - 3 bar	100	0,765
DN25 2,5 - 3 bar	200	0,821
DN32 2,5 - 3 bar	350	0,765

CLASS W

	kW [maximum thermal power of the system]	Ltr [nominal water content in the system]
DN15 4 - 5 - 6 - 7 - 8 - 9 - 10 bar	75	<200
DN20 4 - 5 - 6 - 7 - 8 - 9 - 10 bar	150	200÷1000
DN25 4 - 5 - 6 - 7 - 8 - 9 - 10 bar	250	1000÷5000
DN32 4 - 5 - 6 - 7 - 8 - 9 - 10 bar	350	5000÷10000