

Article:

SafetyValve 1" x 1 1/4" K 0,5 bar - 5,0 bar

2025

1. Condition of performance

1.1 Max. operating temp.	120° C
1.2 Storage temperature	-10°C .. +50°C
1.3 Max. environment temp.	70°C
1.4 Use	Water
1.5 Antifreeze	Max 50% Propylene Glycol
1.6 Max. flake thickness 2 mm (iron ox.)	No risk of stoppage, but particles in membrane area can be trapped after lifting from seat (leakage)

3. Mechanical/Dynamical specifications

	Min.opening	Max. opening	Max. pres. +10%	Capacity	Min. Closing -20%
1" x 1 1/4" K 0,5 bar - 1142-0-00-01	0,4 bar	0,6 bar	0,6 bar	150 kW	>= 0,4 bar
1" x 1 1/4" K 1,0 bar - 1142-0-01-01	0,9 bar	1,1 bar	1,1 bar	200 kW	>= 0,8 bar
1" x 1 1/4" K 2,0 bar - 1142-0-02-01	1,9 bar	2,1 bar	2,2 bar	275 kW	>= 1,6 bar
1" x 1 1/4" K 2,5 bar - 1142-0-25-01	2,4 bar	2,6 bar	2,8 bar	325 kW	>= 2,0 bar
1" x 1 1/4" K 3,0 bar - 1142-0-03-01	2,9 bar	3,1 bar	3,3 bar	350 kW	>= 2,4 bar
1" x 1 1/4" K 4,0 bar - 1142-0-04-01	3,9 bar	4,1 bar	4,4 bar	450 kW	>= 3,2 bar
1" x 1 1/4" K 5,0 bar - 1142-0-05-01	4,8 bar	5,2 bar	5,5 bar	525 kW	>= 4,0 bar

4. Geometric specifications

4.1 Major dimensions	According to PenTec drawings
4.2 Calc. Area	(ø20 mm)= 3,15 cm ²
4.3 Lift	5 mm
4.4 Alpha value	0,6

5. Material specifications

5.1 Body	Brass CW617N (Pb<2,2%)
5.2 Spring cover	PA 6,6 - 30% GlassFill
5.3 Membrane	EPDM 50 Shore Peroxide cured
5.4 Valve disk	PA 6 - 30% GlassFill
5.5 Preset spring	Stainless spring steel
5.6 Adjustment screw	PA 6 - 15% GlassFill
5.7 Spring seat	PBT 420 1001
5.8 Control knob	ABS (Black)

6. Standards and approvals

NEN-EN ISO 9001
PED 2014/68/EU
EN-4126-1 module B module D (Risk cat. IV)
CE 0476

