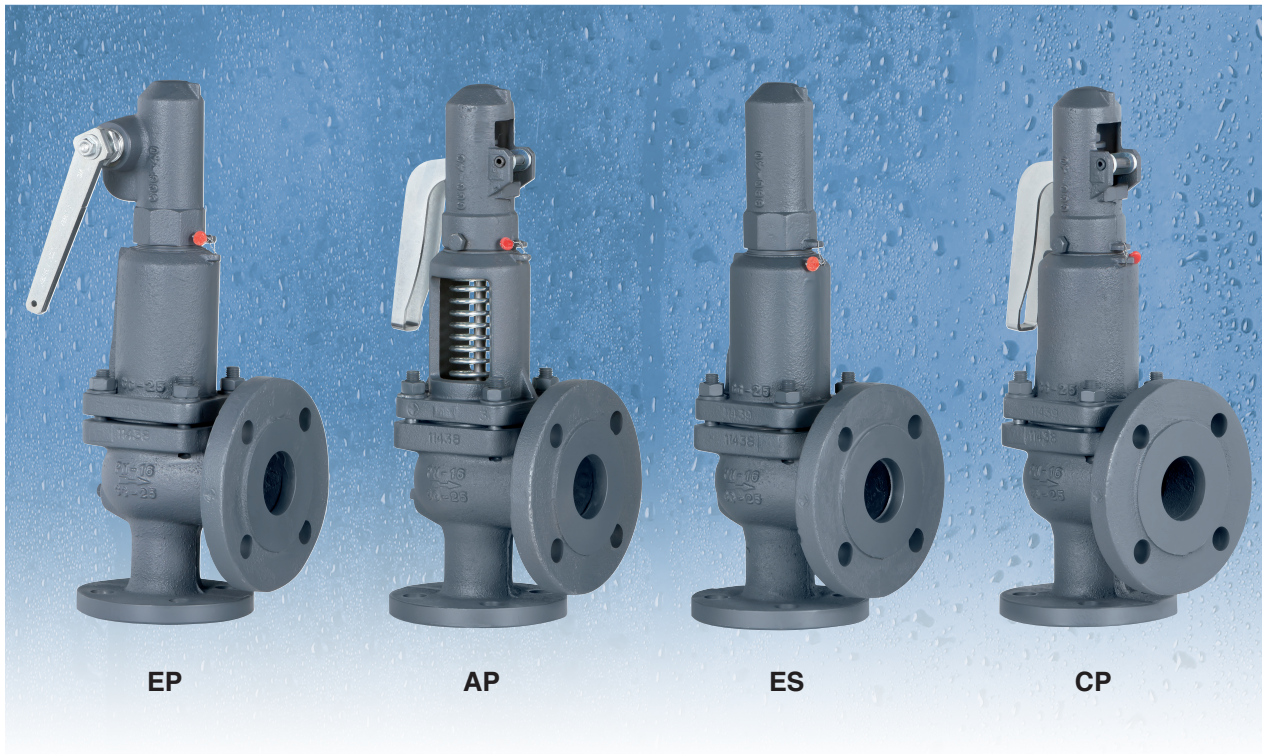


Normal safety valve with spring loading. (AN)

Model 494



EN



The valve works as an automatic pressure releasing regulator activated by the static pressure existing at the entrance to the valve and is characterized by its ability to open, at the first proportional to the pressure increase, and after instantly and totally.

Design in accordance with "International Standard ISO 4126 -1 Safety Valves".

In accordance with the requirements of the pressure equipment directive 2014/68/EU.

EC valve verification certified by: TÜV Rheinland Industrie Service GmbH, Notified Body for Pressure Equipment ID-No. 0035.

Type (Module B) EC examination report nº 33530455 certified by: TÜV Rheinland Ibérica ICT, S.A.

In compliance with the ATEX 2014/34/EU directive "Protective equipment and systems for use in potentially explosive atmospheres".

Other authorisations: ISCIR, ITI, NASTHOL, EAC, ...etc.

Specifications

- 90° angular flow.
- Activated by direct action helicoid spring.
- Simplicity of construction ensuring minimum maintenance.
- Materials carefully selected for their resistance to corrosion. With the exception of washers and couplings, the valves are free of non-ferric materials.
- Internal body designed to offer favourable flow profile.
- Sealing surfaces treated and balanced, making them extremely tightness, even exceeding EN 12266-1 requirements.
- Great discharge capacity. For liquids typically used with openings similar to proportional safety valves.
- Equipped with draining screws for removing condensation.
- Auto-centering plug.
- Threaded shaft with lever positioner facilitating immediate manual action.
- Elevator, independent of the seal, designed facilitate sudden opening when the steam expands and, with any fluid, guarantees absolute opening and closing precision.
- All the valves are supplied sealed at the set pressure requested, simulating operational conditions, and are vigorously tested.
- All components are numbered, registered and checked. If requested in advance, material, casting, test and efficiency certificates will be enclosed with the valve, and the instruction manual, in accordance with P.E.D. 2014/68/EU.

**FACT LIST FOR
SAFETY VALVE CALCULS**

Calculus according to ISO-4126-1:2004 "Safety valves" 1)

Customer:

Theme:

Leaf:

Of:

1	Consultation / Bid / Order					
2	Position N°.					
3	N°. of units					
4	Regulation					
5	SERVICE CONDITIONS	Fluid				
6		Calculation temperature °C				
7		State at moment of dischar. l = liquid, s = steam, g = gas		l <input type="checkbox"/> s <input type="checkbox"/> g <input type="checkbox"/>	l <input type="checkbox"/> s <input type="checkbox"/> g <input type="checkbox"/>	l <input type="checkbox"/> s <input type="checkbox"/> g <input type="checkbox"/>
8		Molecular mass kg/kmol				
9		Adiabatic exponent α	Compressibility coe. Z			
10		Density at moment of discharge kg/m³				
11		Coefficients ψ max	χ			
12		Viscosity cSt	cPs			
13		Working pressure abs. bar				
14		Set pressure abs. bar				
15		External back pressure abs.				
		constant	variable	bar		
16		Rated pressure abs. bar				
17		Discharge	Required: kg/h, Nm³/h, l/h			
18	capacity	Possible: 1) Kg/h, Nm³/h, l/h				
19	VALVE CONSTRUCTION	Opening: Full lift / Normal / Progressive				
20		Manufacturer type				
21		Materials	Body			
22			Seat			
23			Plug			
24			Spring			
25			Joint			
26		Manual discharge action		yes / no		
27		Cover		Closed / Open		
28		Bellows		si / no		
29		Body with drainage		si / no		
30		Diameter of narrowest flow d_o		mm		
31		Section of narrowest flow A_o	Necessary A_o		mm²	
32			Chosen A_o		mm²	
33	Allowed discharge coefficient		αd			
34	CONNECTIONS	Input / Output	DN	Flange	mm	
35				Thread	inch	
36				Welding (soldering) ends		
37		PN	bar			
38		Shape of joint surfaces (DIN-2526)				
39	OBSERVATIONS	Unit weight		approx. Kg		
40						
41						
42						
43	ACCEPTANCE	Certificate according to		EN-10204 2.2		
44		Certificate according to		EN-10204 3.2		
45						

Date:

Department:

Name: