

### Main Features

- For corrosive gasses and liquids
- Protection of instruments from over pressure
- For pressure gauges, pressure switches and transmitters
- Option: NACE conform

### Applications

- Oil & Gas / Chemical
- Water & Waste water
- Energy
- Machinery

### Description

These over-range protectors have been designed to protect pressure gauges (or other instruments) against accidental overpressure. The medium must be a clean gas or fluid without particles and with low viscosity.

Working principle:

The applied pressure works against an adjustable internal spring by means of a bellows or piston.

As soon as the pressure reaches the adjusted setpoint, an internal valve closes and avoids further pressure increase on the outlet side. When the pressure decreases, the valve will open 20 % below the closing pressure.

Two models are available according to the ranges for the setpoint adjustment (AORP-0, AORP-B, see ordering details on page 2).

### Technical data

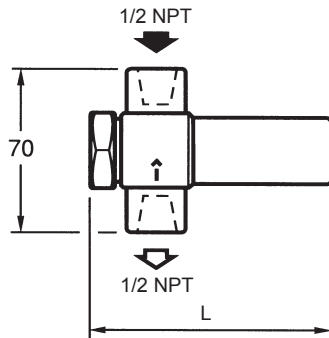
Inlet:	1/2 NPT female
Outlet:	1/2 NPT female
Max. pressure:	700 bar
Max. temperature:	150 °C
Setpoint:	see ordering details on page 2
Setpoint repeatability:	AORP-0: ± 10 % AORP-B: ± 2 % (when the pressure is increasing over ≥ 5 s)
Dead band: <sup>(1)</sup>	20 %
Valve:	Stainless steel 1.4404 (316L)
O-ring:	Viton
Body, adjusting screw and cleaning plug:	Stainless steel 1.4404 (316L)
Piston (AORP-0):	Stainless steel 1.4404 (316L)
Bellows (AORP-B):	Stainless steel 1.4404 (316L)
Spring:	1.4310 (301)
Gasket of the cleaning plug:	Aluminium

<sup>(1)</sup> The valve opens 20 % below the adjusted setpoint for closing.

### Options

Customer specific set point adjustment	Code SETP
Compliant with NACE MR0175 and MR0103	Code 0073
Degreased for oxygen applications	Code 0765
Material certificate 3.1	Code Q003

## Dimensions (mm)



	L	Weight in kg
AORP-0	90	0.500
AORP-B	117	0.600

## Ordering details AORP

	AORP	-	xxx	/
<b>Model</b>	AORP	-	xxx	/
Over-range protector	AORP	-		
<b>Type</b>				
High pressure (piston, ranges 3xx)			0	
Low pressure (bellow, ranges 5xx)			B	
<b>Pressure range for setpoint adjustment (bar)</b>				
-1 ... 0				507
0.1 ... 0.4				501
0.4 ... 0.6				502
0.6 ... 1				503
1 ... 3				504
3 ... 6				505
6 ... 16				506
3 ... 6				381
6 ... 18				382
18 ... 25				383
25 ... 80				384
80 ... 160				385
160 ... 400				386
<b>Options to be added behind the / (see example below)</b>				/

## Ordering example

AORP - 0385 / 0765

Over-range protector ←  
 Pressure range: 80 + 160 bar ←  
 Option: Degreased for oxygen applications ←