Datasheet

CONDENSATION POT

ACCESSORIES

KEY FEATURES

- Calculation of the condensation pot according to ASME B31.3 construction code and EN 13480 standard
- Volume of 0,5 to 5 liters, other volumes available on request (1)
- Design pressure and temperature : to be specified along with the request
- In compliance with the PED 2014/68/UE pressure equipment directive
- Materials : standard stainless steel 316L/carbon steel, other materials available on request (1)

(1) see page 4 standard and additional values.
Pots in stock : volume 1.0 liter, SS316L and carbon steel.

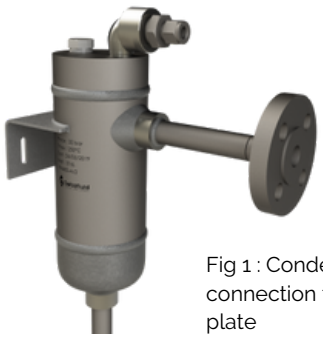

Fig 1 : Condensation pot with connection taps and mounting plate

Fig 2 : Condensation pot to be welded

BENEFITS

- Suitable for steam applications
- Helps protect the differential pressure transmitter by cooling the fluid upstream of the transmitter
- Improves measurement accuracy
- Standard models in stock
- Use as a condensation pot or separation pot

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OPERATING PRINCIPLE

- Condensation pots are used to thermally protect the cells of the differential pressure transmitter : they allow condensing the fluid in the impulse lines upstream of the transmitter.
- Installed at the same level on the upstream and downstream pressure taps, they allow precise measurement by maintaining a constant condensate height in the impulse lines above the differential pressure transmitter.

MOUNTING

Installation on a horizontal line

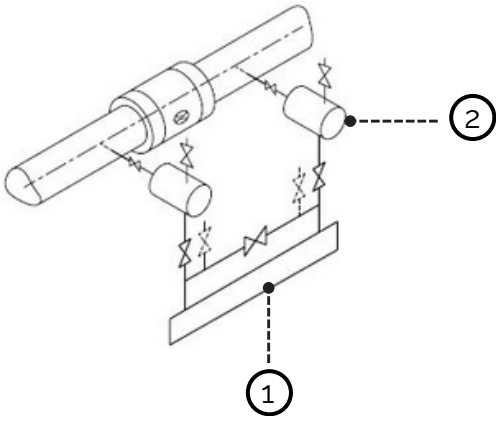


Fig 3 : Mounting of the transmitter with condensation pots on a horizontal pipe

Installation on a vertical line

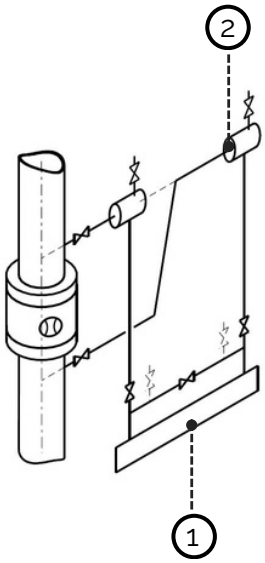
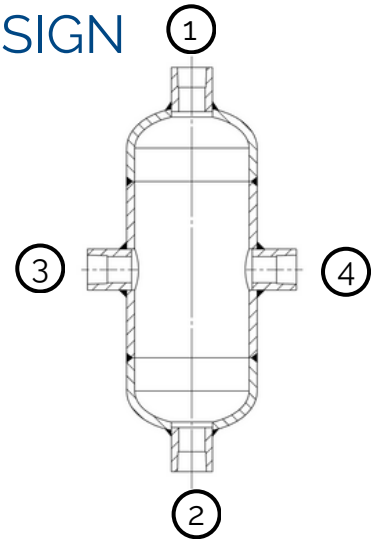


Fig 4 : Mounting of the transmitter with condensation pots on a vertical pipe

1. Differential pressure transmitter
2. Condensation pots

- Condensation pots should be mounted at the same level to eliminate error that could be caused by uneven fluid height in the pressure taps.

DESIGN



Connection taps n°1, 2, 3 and 4 : positioning and type of connections to be defined according to customer needs.

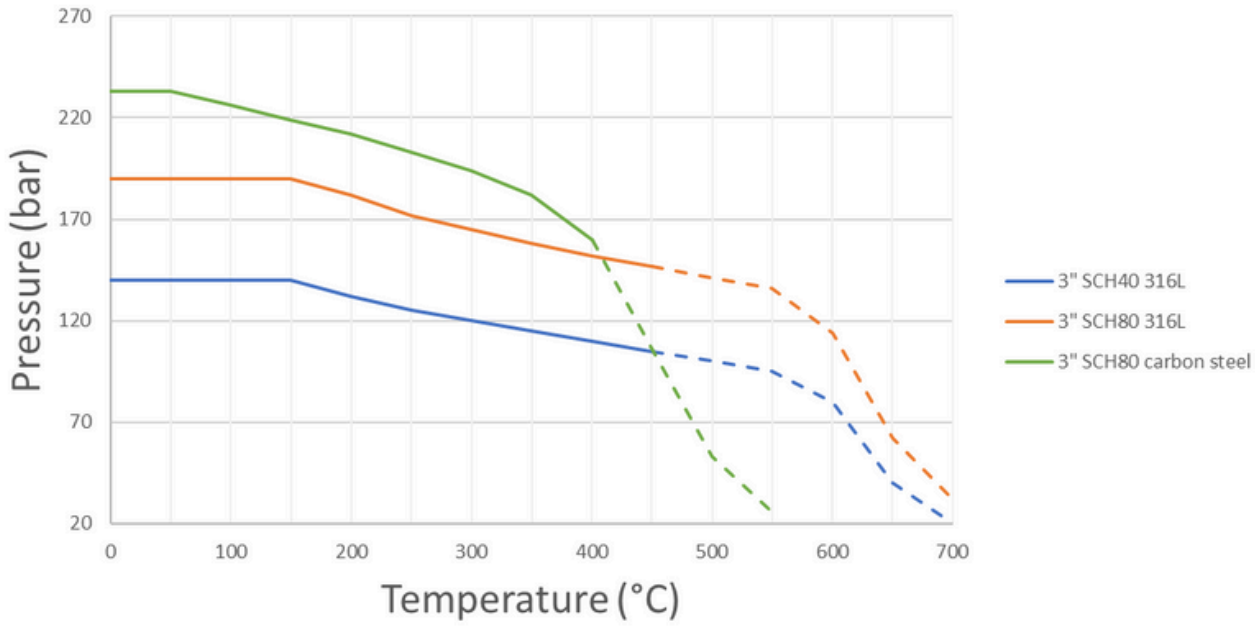
See page 4 for different types of connections.

Here, connections are represented in 1/2"NPT-F.

PRESSURE RESISTANCE

- This graph represents the pressure resistance for pots with a diameter of 3" in 316L stainless steel and carbon steel.

Fig 5 : Pressure resistance for 3" pots



- The characteristics of this graph for 3" pots are exploitable for SS316L and carbon steel materials up to temperatures of 450°C.

- For different DNs and/or materials, the condensation pot schedule will be proposed according to the applicable design temperature and pressure.

ACCESSORIES

For flow measurement, in addition to condensation pots, we offer a full range of accessories for assembly with the selected primary elements.

- Transmitter

Differential pressure transmitter, multivariable transmitter

- Manifold

2-way, 3-way; 5-way manifold with or without direct mounting

- Fittings

- Valves

FURTHER INFORMATION

All the information on the assembly of the condensation pots can be found in the "User guide - installation and maintenance" manual.

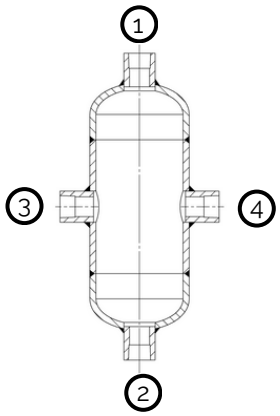
The condensation pot can also be used to protect the transmitter in case of a flow measurement of a corrosive / aggressive fluid. In this case, we call it a separation pot

ITEM CODES

- Condensation pots : APOT-DN-Schedule-Volume-Connection type (each connection)-Material

APOT	DN	Schedule	Volume (1)	Connection type (2)	Material
ASME nominal diameter	1" 2" 3" 4" 6" other	40 (STD) 80 (XS) 160 XXS other	0.5 l 1.0 l 1.5 l 2.0 l 3.0 l 5.0 l other	A : 1/4" NPT-F B : 1/2" NPT-F C : 1" NPT-F D : 1/4" BSPT E : 1/2" BSPT F : 1/2" 600# RF G : 1/2" 600# RTJ H : other	SS316 16Mo3-F11/P11 SS304 AC (carbon steel) 6Mo other

- **(1)** Condensation pots with a volume of less than 1 liter are subject to PED article 4.3, which does not require a specific test.
- **(2)** The types of connections correspond to tappings n° 1, 2, 3 and 4 of the plan below (or in page 2). The codes A, B, C, D, E, F, G or H will be written in the item code one after the other starting with tapping n°1 up to n°4.



- Example condensation pots codes :
  - APOT-3-80-1.0-BBBB-SS316
  - APOT-2-40-1.0-BFBB-AC

Condensation pots in stock :

- **APOT-3-40-1.0-BBBB-SS316**
- **APOT-3-40-1.0-BBBB-AC**

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