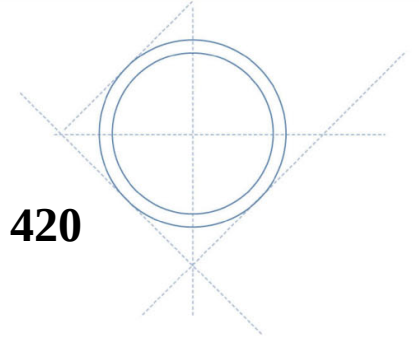


Instruction for EMCO Condensing Chamber Unit Type VK 420



Application

The EMCO condensing chamber unit is in connection with a differential pressure transmitter designed for level measurement in boiler drums of higher pressure.

Storage

Before installation the EMCO condensing chamber unit must be kept clean and protected against physical damage.

Installation

The EMCO condensing chamber unit consists of a condensing pot, 2 vertical tubes, a T-drilled piece, and 2 branch connections with weld ends or flanges.

The unit is connected vertically to the vessel.

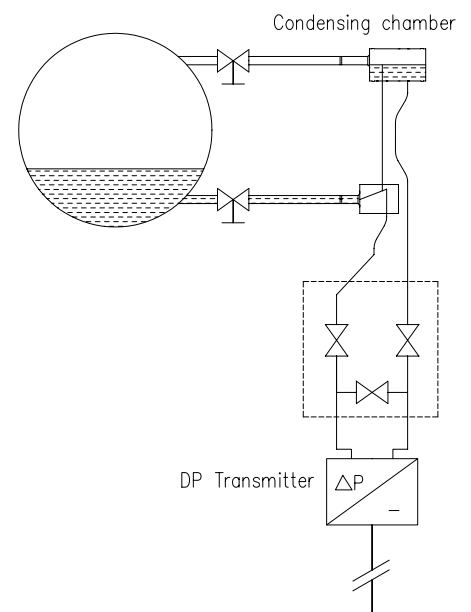
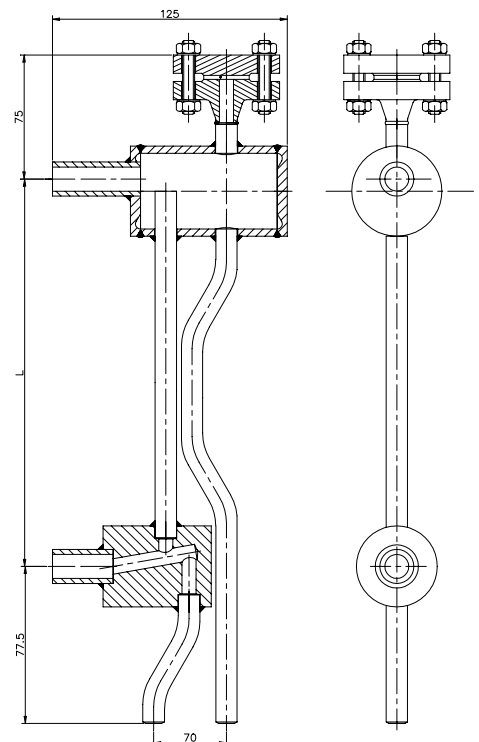
When the unit is welded to the system an approved method of welding must be used

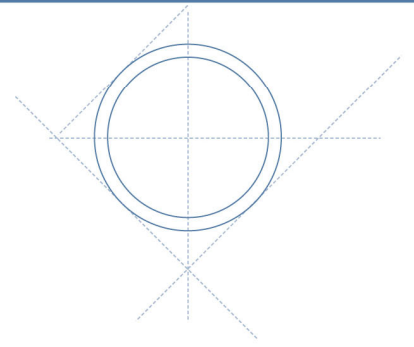
The condensing pot is not to be insulated ensuring that the steam will condensate in the pot. The liquid level will correspond to the height of the upper branch socket. The bended vertical tube is consequently fully contained with water.

The liquid level in the boiler is also created in the straight tube.

The level measurement is produced by measuring the hydrostatic pressure differential between the 2 legs.

In order to obtain higher measuring accuracy at higher temperatures one tube is bended in order to be close to the other tube to ascertain the same temperature in both tubes, due to the fact that the density of water varies with the temperature.





It is recommended to insulate the 2 legs between the condensing pot and the T-piece.

Instrument connection

The instrument connection of the water chamber unit is butt or socket weld ends

Safety instructions

The water chamber unit must not be used for higher pressure and temperature than stated on the name plate.

The blind flange on the filling point must not be removed during operation.

The installation where the unit is a part of must be protected by a safety relief valve.

The non insulated parts of the unit must be protected from human contact.

Maintenance

The EMCO water chamber unit type 420 does not need any special maintenance