



THERMODYNAMIC CONDENSING VESSEL, type OCT-2



DESCRIPTION

The thermodynamic condensing separator type OCT-2 has the role of automatically separating and eliminating, periodically, the condensed steam out of the steam pipes or thermotechnical installations without resorting to exterior energy sources.

The product is used in simple or complex thermotechnical installations :

- automation installation for warming the control and regulating devices ;
- warming batteries, convertors, open bath, steam driers, ... modifiers, chemical cleaning machines, different petrochemical installations, presses and vulcanization drying chamber.

TECHNICAL DATA

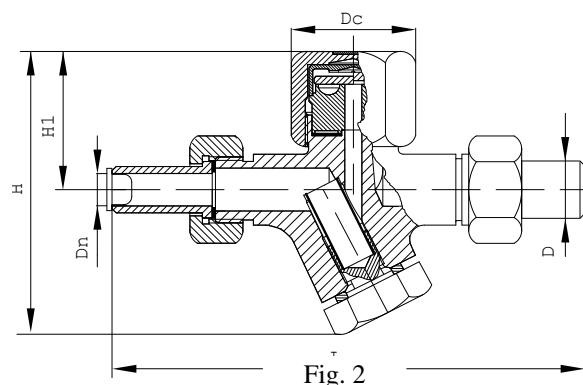
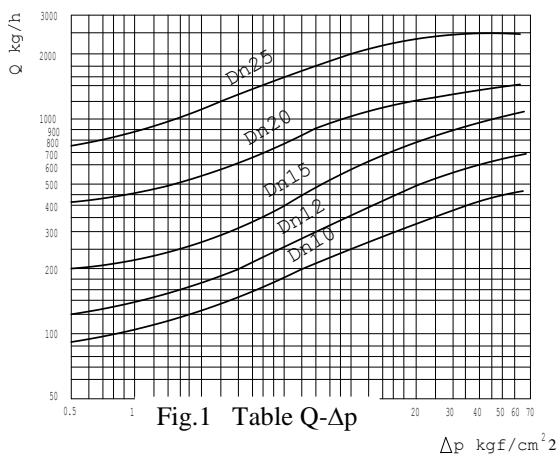
Working fluid : saturated steam, without corrosive elements ;

OCT – 2 dimensions in the installation are chosen according to the nomogram $Q - \Delta p$ (fig.1) which is made available by the supplier at the beneficiary's request ; ;

- the nominal diameters, size dimensions, the mounting and the OCT-2 masses are according to the following table and the representation in fig. 2 ;

Nr. crt.	D_n	D	L	H	H_1	D_c	Weight [kg]
	[mm]						
1.	10	15	145	88	50	32	0,68
2.	12	17	145	88	50	32	0,70
3.	15	20,5	178	107	53	41	1,40
4.	20	26	220	125	62	50	2,40
5.	25	31	250	140	70	60	3,25

- working fluid pressure : $P = (0,5 \div 32)$ bar ;
- max. temperature of the working fluid : $T_{max} = 240^\circ C$;
- working environment temperature : $(-40 \div +70)^\circ C$;
- humidity (monthly average) at $+20^\circ C$: max. 90% ;
- the chair is removable allowing reconditioning .



ORDERING

In the order there will be specified the names type and nominal diameter .

Ex. : "Thermodynamic condensing vessel, type OCT-2, Dn 10 ".

APPLICATION

• Mounting instruction for OCT

The mounting on the steam pipe is done according to fig.3

- The steam pipe will have a 1 : 100 ÷ 1 : 200 slope, in the direction of the flow ;
- Every (25 ÷ 50) m there are mounted plugs for the removal of condense ;
- All inferior points will be emptied ;
- The discharge nipple are equal to the pipe diameter and will be 0,5 m long ;
- The connecting of the heat changer will be done to the superior part of the steam pipe.

The place of OCT mounting

OCT will be mounted close to the heat changer (except OCT mounted under special conditions)

Filtering

Before every OCT there will be mounted a filter.

If in the pipe there is a large quantity of impurities, there must be a way to purge it towards the filter..

• Mounting of OCT in the installation

General mounting : acc. to fig. 4

Special mounting (when needed) : acc. to fig. 5

In order to avoid danger :

- of hydraulic shocks, which appear in the direction of the flow – avoid water bags by emptying the lower points and by mounting big condense nipples ;
- of freezing - all pipes must be isolated up to the discharge point ;
- the condense pipe must have a fall.

• Derivations

If a device malfunctions, when the installation cannot be interrupted, a derivation is made.

Ex. : for the drying cylinders – mounting according to fig. 6.

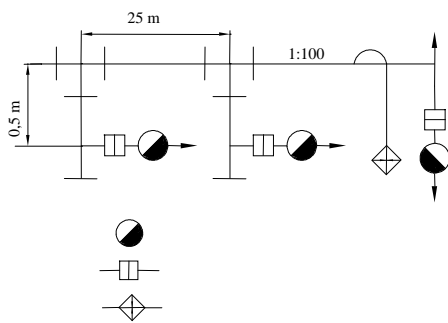


Fig. 3

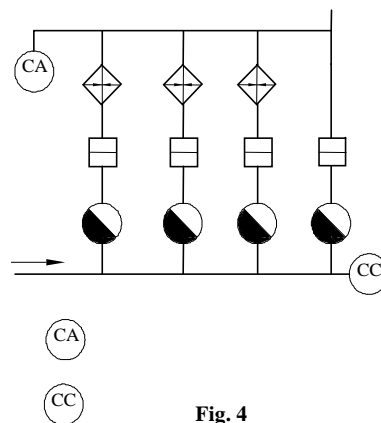


Fig. 4

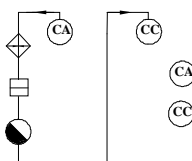


Fig. 5

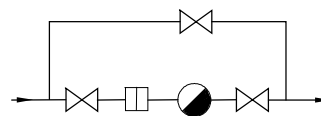


Fig. 6