

SEPARATOARE DE TOTAL

CONFIND manufactures three sizes of three-phase horizontal separators 30, 70 and 80 m³ and Pn = 6 bar(0,6 MPa), designed to separate the mixture of oil, water and gas.

Separator is a horizontal pressure vessel, consisting of a cylindrical shell made of five courses of plate longitudinally welded and elliptical bottoms made of formed plate.

The vessel is supported on two elements saddle type. Separator is provided with technological nozzles and instrumentation nozzles.

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The vessel is divided in 3 compartments by means of 2 walls, as follows:

- compartment 1(for mixing) in which the mixed fluids (oil + water + gas) enter in the compartment through the input nozzle(R1) provided with deflector. In this compartment takes place both the separation of the gas and the gravity settling of the free water in the mixture which is directed at the lower part in compartment 3 by means of a run over pipe for level adjustments.
- compartment 2(for oil) in which the oil separated in compartment 1 is collected.

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- compartment 3(for water) collects the settled water from compartment 1 through the run over pipe for level adjustment. This compartment is separated from compartment 2 by a cross wall.



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| NOZZLE No. | DESTINATION | NOZZLE No. | DESTINATION |
|----------------|-------------------------------|-----------------|---------------------------------|
| R 1 | Mixture input | R 13 | Oil minimum - minimorum level |
| R 2 | Gas output | R 14 a,b | Spare nozzle |
| R 3 | Oil transducer | R 15 a-c | Leakage |
| R 4 | Safety valve | R 16 | Salt water input |
| R 5 | Adjusting water nozzle | R 17 | Water maxim - maximorum level |
| R 6 | Water transducer | R 18 | Max. level for water discharge |
| R 7 a+h | Glass Level | R 19 | Min. level for water discharge |
| R 8 | Water output | R 20 | Water minimum - minimorum level |
| R 9 | Oil output | R 21 | Spare nozzle |
| R 10 | Oil maximum - maximorum level | M 1 | Pressure gauge |
| R 11 | Max. level for oil discharge | Gv1 a,b | Manhole |
| R 12 | Min. level for oil discharge | Gv2 | Oil compartment manhole |



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| TECHNICAL CHARACTERISTIC | | 70 mc | 70 mc | 70 mc |
|---|--|---|------------------------|-----------|
| Regime for technical checking and authorization | | HG 584/2000; SR EN 13445 - 1,2,3,5/2003 | | |
| Working pressure (MPa) | | 0,6 | 0,6 | 0,3 |
| Maximum admissible working and calculation pressure PS (MPa) | | 0,6 | 0,6 | 0,6 |
| Hydraulic test | Pressure (MPa) | 1,84 | 1,72 | 0,82 |
| | Holding duration (min) | 60 | 60 | 60 |
| Sealing test | Necessity | At beneficiary with working service | | |
| | Pressure (MPa) | 1,41 | 1,32 | 0,6 |
| Min. admissible working temperature of the metal wall under pressure Ts | Maximum (°C) | +50 | +50 | +100 |
| | Minimum (°C) | - 20 | - 20 | - 15 |
| | Description / Group | Gas, oil, water/gr. 1 | | |
| Working chars | Corrosive towards the vessel metal (mm/year) | 0,15 | 0,15 | 0,3 |
| | Risk (OUG 200/2000; law no. 451/2001) | | Inflammable, explosive | Toxic |
| | Temperature | Maximum (°C) | +50 | +50 |
| | | Minimum (°C) | +5 | +5 |
| | Specific weight (kg/m³) | 780 - 950 | 780 - 950 | 930 - 990 |
| Admixture for exploitation conditions (mm) | | 3,0 | 3,0 | 3,0 |
| Thermal insulation thickness (mm) | | 80 | 80 | 80 |
| Volume (L) | | 70000 | 30000 | 80000 |
| Maximum weight of the load (kg) | | - | - | - |
| Net weight of vessel at delivery (kg) | | 16750 | 10836 | 17810 |
| Empty vessel weight, in instalation (kg) | | 20810 | 13836 | 19100 |
| Weight of functioning vessel (kg) | | 56700 | 35936 | 77500 |
| Weight of vessel at the hydraulic test in instalation (kg) | | 90800 | 44386 | 97700 |
| Category HG 584/2004 | Risk category | IV | IV | IV |
| | Evaluation mode with quality assurance | G | G | G |