EKOMAG

Gas separator

CERTIFIED BY THE SWISS WATER AND GAS ASSOCIATION

It eliminates gaseous particles out of liquids.

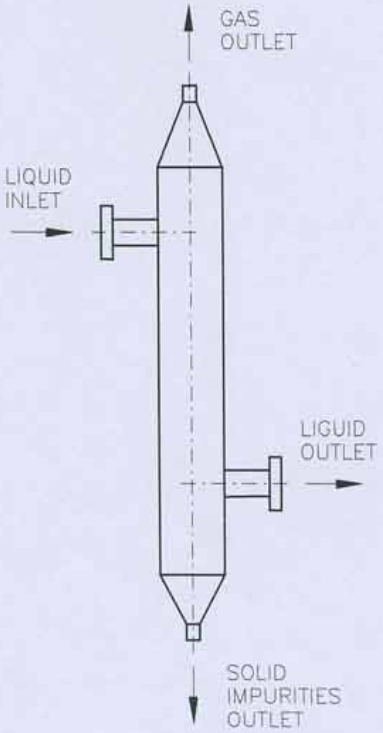
By air-bubble´s elimination it resists to undesirable airintake of heating and cooling systems, to blocking of thermostatic valves and automatics and to system´s noisness. It resists to corrosion´s creating and by meaning of to dispraise of system´s efficiency and lifetime. It separates the gaseous bubbles out of liquids during an industrial technological processes.

The elimination of gases is continual with automatic parting. Efficiency is up to 99% at high rate of gas as well. The separator eliminates a solid particles of 70μm and more with efficiency up to 80% at the same time.

The liquid´s inlet is tangential in upper part of cylindrical vessel. The liquid by mean of spiral motion in the down direction eliminates a lighter gaseous medias. The liquid´s outlet is tangential in bottom part. The gaseous particles are pressed under a separator´s cover out and there they are automatically blowed away of. The solid particles are eliminated in lower part of vessel, from where they are let out by a ball valve or automatic.

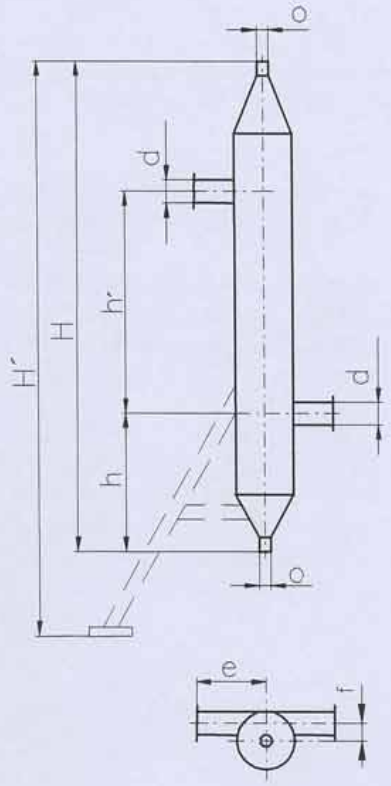
The device works without electric power, needs no control and maintenance and is free of operation expenses. For higher efficiency is possible to install them behind the other each. It´s designed for working pressures 0.6 to 1.6 MPa and temperature to 150°C. The pressure loss at optimum flow rate is 10 - 40 kPa at maximum flow rate 70 kPa. It´s made of high quality steel, type OPO 0 of stainless steel.

Type	DN	Rate of flow (m3/h) Optimum	Min.	Max.
OPO 0	17	0.7 - 1.9	0.4	2.4
OPO 1	32	2 - 6	1	9
OPO 2	50	14 - 24	8	40
OPO 3	100	54 - 100	30	150
OPO 4	150	82 - 205	50	280
OPO 5	200	195 - 440	110	500
OPO 6	300	400 - 900	350	1200

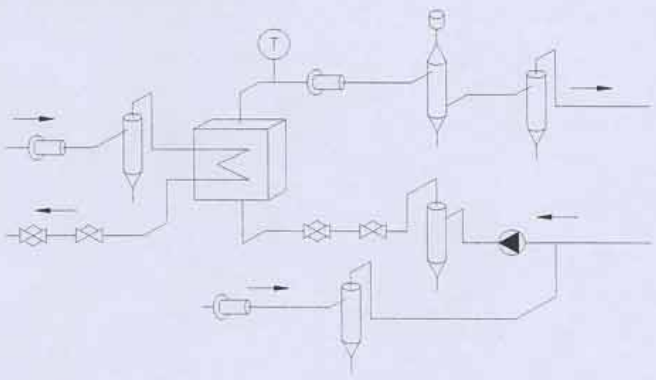


The device is protected as an utility pattern.

Type	DN	d	Dimensions (mm) H	H´	f	e	h	h´	o	Weight (kg) Empty	Full
OPO 0	17	1/2"	660	-	41	120	185	325	1/2"	6	9
OPO 1	32	5/4"	1360	1510	75	225	330	755	1"	35	60
OPO 2	50	50	1900	2050	125	330	510	955	5/4"	95	200
OPO 3	100	100	3750	4050	250	730	1040	1790	2"	370	1150
OPO 4	150	150	5130	5430	345	1160	1390	2530	2"	800	2700
OPO 5	200	200	6870	7170	430	1450	1750	3750	2"	1340	5500
OPO 6	300	300	9210	9510	590	1800	2175	5180	2"	2400	13100



Example of gas separator use in central heating:



Gas separator  Tangential impurities separator  Magnetic liquid´s treatment device