

Pumps

Condensate Pumps KH 1

Very Lightweight Condensate Pump



Technical Data

Connection DN	25 + 50
Nominal Pressure PN	16
Motive Medium Inlet	G 3/4A
Blow Off Line	G 3/4A
Lifting Height	40 m
Driving Pressure	up to 8 bar
Flow Rate	3430 l/h
Temperature	200 °C
Medium	gases and steam

Description

Condensate Lifters are driven by motive gas. They are conveying elements for steam or cold condensate systems through which the accumulated condensate is re-conducted to the process on a higher pressure level.

The KH1 is a float-operated condensate lifter. All parts thereof consist of deep drawn stainless steel with outstanding resistance to corrosion. The valve cone is fitted with a metallic seal.

The liquid medium is gravity fed into the inlet side, thus getting to the lowest part of the condensate lifter. Then it is conducted through the outlet side by means of the motive gas overpressure. Steam from the system or gas and/or compressed air are used as motive gas. It is fed on the inlet side at the condensate lifter head via an intermittent pilot valve. During filling, the receiver is vented on the outlet side by a second pilot valve, which opens alternately with the inlet pilot valve.

Opening and closing of both valves is controlled by a float in the condensate lifter interior, which calipers the filling level of the pressure vessel. The float is designed for liquids featuring a density similar to water.

Standard

- » all CrNiMo steel construction
- » quick release body clamp ring
- » two backdraft dampers
- » operated with steam, gases or air

Options

- » for oil or other liquids
- » special versions on request

Product features in brief

- » lightweight and compact for its deep-drawn components
- » stainless steel resistant to corrosion
- » inlet and outlet arranged on an extremely low level

Operating instructions, know how and safety instructions must be observed. All the pressure has always been indicated as overpressure. We reserve the right to alter technical specifications without notice.



Flow Rates [l/h] and Pressure Ranges [bar] DN 25

motive press. bar	back pressure bar				
	0.5	1	1.5	2	2.5
3	690	340	270	210	160
6	1430	780	470	420	380
8	1790	940	540	480	420

Flow Rates [l/h] and Pressure Ranges [bar] DN 50

motive press. bar	back pressure bar				
	0.5	1	1.5	2	2.5
3	1370	1070	940	770	470
6	2710	1640	1230	1150	1020
8	3430	2510	2100	1700	1540

Pumps

Condensate Pumps KH 1

Very Lightweight Condensate Pump



Materials

Body	CrNiMo-steel
Body Seal	Silikon
Seat, Cone	CrNiMo-steel
Float	CrNiMo-steel
Backdraft Dampers	CrNiMo-steel

Dimensions[mm]

size	nominal diameter	
	DN 25	DN 50
A ₁	280*	285*
A ₂	315	315
B	455	455

* without backdraft dampers

Weights [kg]

nominal diameter	
DN 25	DN 50
17.5	21

Special designs on request.

The pressure has always been indicated as overpressure.

Mankenberg reserves the right to alter or improve the designs or specifications of the products described herein without notice.

Dimensional Drawing

