

Effective against liquid chlorine

CondiChlor 10K: Pressure reducing valve with chlorine filter



Problem liquid chlorine

The dosing of chlorine gas places high requirements on the machinery and materials. If your chlorinator does not fulfil these high standards, this can result in malfunctions and device standstill. This can result in device downtime and the endangerment of persons, even if much effort is invested in the planning and set-up.

Impurities and - liquid chlorine have proven to be the most common causes of malfunctions. It either enters the system directly from the chlorine tank or develops in piping through condensation, which is unavoidable as a result of temperature and pressure differences.

Liquid chlorine results in the accretion of impurities in the piping system and the devices. This often results in malfunctions.

The liquid chlorine has a further, more serious characteristic: It attacks the plastic parts of your system which are only resistant to gaseous chlorine. This can result in greater wear, malfunctions or leakages.

CondiChlor 10K prevents malfunctions

CondiChlor 10K is effective in preventing these malfunctions. The moisture eliminator collects the liquid chlorine before it can damage the subsequent devices. It is sufficiently dimensioned to enable complete take up even of the liquid chlorine from the withdrawal line of a chlorine drum.

A heating collar ensures that the liquid chlorine evaporates and the process is available again.

Then the chlorine passes the ceramic filter. It provides effective protection for the subsequent devices against soiling from the chlorine drum and the piping system.

Functions

- The liquid chlorine is first collected from the container in a moisture eliminator and then evaporated using a heating sleeve.
- The chlorine gas is then filtered.
- The valve reduces the pressure and prevents condensation in the system.
- A pressure gauge displays the reduced pressure with which the chlorine gas enters the system.

Pressure reducing valve against condensation

CondiChlor 10K also actively prevents the accretion of liquid chlorine by reducing the pressure from the chlorine tank. Given a lower pressure, chlorine condenses at significantly lower temperatures. Starting the pressure at e.g. 2.5 bar means that the chlorine liquefies under 0 °C.

CondiChlor 10K provides effective protection for the subsequent system parts and prevents the development of costs resulting from downtime, complicated maintenance work and the destruction of components.

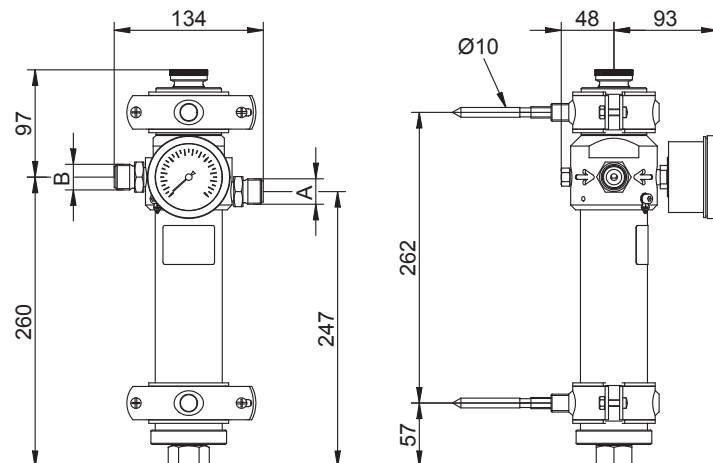
Technical data

CondiChlor 10K			
Max. throughput Cl ₂	kg/h		10
Pressure stage			PN 25
Required supply pressure	bar		3
Adjustment range output pressure	bar		1 – 3
Max pressure loss in device	bar		0.5
Filter unit	µm		80 – 110
Volume of the moisture eliminator	ml		150 approx.
Optional pressure gauge	Measuring range	bar	0 – 16
	Size	mm	Ø63
	Accuracy	%	± 2.5 from the final scale reading
	Load capacity of the contacts		50 V / 0.5 A / 10 W
Materials in contact with the media	Housing		Steel, galvanised brass, monel
	Filter, ball		Ceramic
	Spring		Hastelloy
	Diaphragms		FPM
	Seals		FPM, PTFE
Weight with pressure gauge and wall holders	kg		6.5 approx.
Ambient temperature	°C		0 – 55 (no direct sunlight)
Air humidity	%		max. 95, non condensing

Dimensions

All dimensions in millimetres (mm).

Input A / Output B
Available:
BSW1"
BSP 5/8
BSP 3/4
1,030" x 14 NGO



Standard accessories



Heating collar

incl. fastening material and 3 m cable, excl. plug
30 W, 240 V or 30 W, 120 V

Flexible connection line

on both sides with union nut G 5/8
Lengths 2, 4 or 6 m