



VACCUPERM - CHLORINE GAS DOSING SYSTEMS

Accessories

Injectors

Injectors create the vacuum for the transport of the chlorine gas into the water flow. They operate according to the principle of a water jet pump. An integrated non-return valve protects the chlorine gas dosing system from the ingress of chlorine solution. Injectors are available with different water connections for different counterpressures for the entire Vaccuperm range.

Benefits

- Low operating costs and high efficiency due to the special form of the nozzle
- A non-return diaphragm valve protects the dosing unit from the ingress of water or chlorine solution optimally
- Excellent price-performance ratio

Change-over devices

Change-over devices ensure a continuous supply of a chlorine gas dosing system by changing over from the empty bank of cylinders or drums to the standby bank.

Benefits

- The version up to 10 kg/h operates without electrical power
- The 120 and 200 kg/h versions include motor valves and manual ball valves
- The 200 kg/h version includes a contact pressure gauge

Evaporators

The automatic chlorine evaporator is specifically designed for use in large-scale chlorine dosing plants in water treatment facilities, for example 70 kg/h up to 200 kg/h. The heat transfer medium is either water containing anticorrosive and antifreeze agents or oil. Liquid chlorine is fed from storage containers into the heat exchanger of the evaporator. There it is heated up and transformed into a dry saturated gas. The evaporator is designed to minimize the possibility of recondensing.

Benefits




- Reliable and redundant safety concept
- Heat exchanger designed for dry saturated gas
- Pressure tested according to EN 13445
- Control panel with cable labelling
- Contact thermometer and contact pressure gauge
- Bursting disc with expansion tank

Pressure reducing valves

The pressure reducing valve reduces the unregulated gas pressure of the gas containers to a constant operation pressure. It ensures the precise and pressure-independent functioning of the inlet valve of the vacuum regulator and prevents reliquefaction of the gas. If the reducing valve is additionally equipped with a servomotor, it protects the dosing unit against the penetration of liquefied gas by its immediate shut-off function in case of malfunctions of the system. Pressure reducing valves are available for dosing capacities from 40 kg/h to 200 kg/h and with supply voltages of 230 V, 50 Hz and 115 V, 60 Hz.

Technical data

Change-over devices

Change-over devices	189 vacuum change-over device	186 vacuum change-over device	185 change-over device
			
Dosing capacity	Up to 10 kg/h	Up to 120 kg/h	Up to 200 kg/h (gas) Up to 600 kg/h (liquid)
Position	Vacuum side	Vacuum side	Pressure side
Connections	PE hose 8/11 or 10/14	PVC pipe DN 20, DN 32 or DN 40	Flange DN 25 EN1092-1
Options	Connection for PVC pipe DN 15 Contact for remote indication Certificate 3.1 (EN 10204)	115 V; 50/60 Hz 230 V; 50/60 Hz Connections for PE-hose 8/11 or 10/14 Certificate 3.1 (EN 10204)	Bypass line 115 V; 50/60 Hz 230 V; 50/60 Hz Counterflange set Certificate 3.1 (EN 10204)

Evaporators

Evaporators	RV 171 evaporator	RV 171W evaporator
		
Dosing capacity	Up to 100 kg/h and 200 kg/h	
Heat transfer medium	Oil	Water
Connections	Flange DN 25 EN1092-1	Flange DN 25 EN1092-1
Options	400 V; 50/60 Hz 415 V; 50/60 Hz Certificate 3.1 (EN 10204)	380 V; 50/60 Hz 400 V; 50/60 Hz 415 V; 50/60 Hz Certificate 3.1 (EN 10204)

Additional accessories

Injectors	Pressure reducing valves	LiquiFilt
		



For more information, see the Vaccuperm Data Booklet:
<http://net.grundfos.com/qr/i/99557091>