

Secure protection for chlorinators

Injector non-return valve



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In total vacuum chlorine gas dosing systems the vacuum is generated by injectors which operate on the principle of a liquid beam gas compressor. With this type of pump the pump effect (vacuum) is produced by a water flow which draws, accelerates and compresses/advances the chlorine gas.

If the water flow were to be interfered with or interrupted, the water pressure would also drop on the gas intake side of the injector and water would seep into the chlorinator. This would result in corrosion damage and malfunction of the devices. It is essential, therefore, that injectors are fitted with non-return valves on the gas intake side.

For dosing capacities up to 6 kg Cl₂/h an additional injector non-return valve with back-pressure regulator is available in order to maintain a constant vacuum between the dosing device and injector.

Functions

- Capacity stages 6 – 200 kg Cl₂/h
- With back-pressure regulator (optional)
- Max. pressure stage PN16
- Simple assembly onto injectors
- Low opening pressure

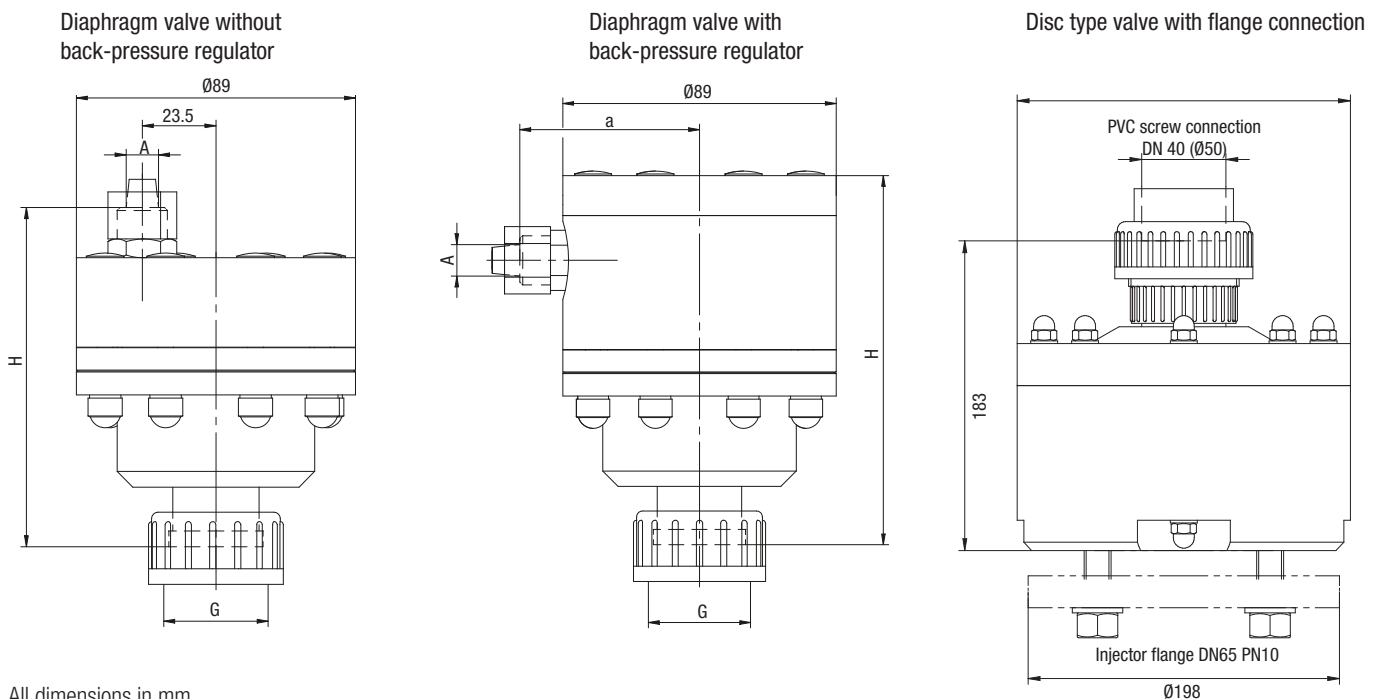
Technical data

Version		Diaphragm valve	Poppet valve
Max. capacity range		25 kg Cl ₂ /h	200 kg Cl ₂ /h
Max. pressure stage		16 bar	10 bar
Max. ambient temperature		35°C	
Materials		PVC, PVDF, FPM, Hastelloy	PVC, PE, FPM, Hastelloy
Opening pressure	without backpressure regulator	approx. 100 mbar	approx. 50 mbar
	with back-pressure regulator	approx. 300 mbar	-
Weight		approx. 0.8 kg	5.9 kg

Model variants

Product	Max. performance chlorine gas	For injector type	Hydraulic connections	
			Input (A)	Output (G)
Diaphragm non-return valve without back-pressure regulator	6 kg/hr	A, AH, B, BH, E	8/12 PE hose	PVC screw connection G1
			12/16 PE hose	PVC screw connection G1
			PVC screw connection DN15	PVC screw connection G1
	15 kg/hr	C, F	12/16 PE hose	PVC screw connection G2
	25 kg/hr	C, F	PVC screw connection DN15	PVC screw connection G2
Diaphragm non-return valve with back-pressure regulator	6 kg/hr	A, AH, B, BH, E	8/12 PE hose	PVC screw connection G1
		A, AH, B, BH, E	12/16 PE hose	PVC screw connection G1
Disc type non-return valve	200 kg/hr	D, H, DH, Large injectors	PVC screw connection DN40	Flange DN65

Dimensions



Version	Max. performance chlorine gas	Input A	Height H	Clearance a
Without backpressure regulator	6 kg/hr	8/12 PE hose	112 mm	-
		12/16 PE hose	110 mm	-
		PVC screw connection DN15	117 mm	-
	15 kg/hr	12/16 PE hose	136 mm	-
	25 kg/hr	PVC screw connection DN15	142 mm	-
With back-pressure regulator	6 kg/hr	8/12 PE hose	120 mm	60 mm
		12/16 PE hose	120 mm	65 mm