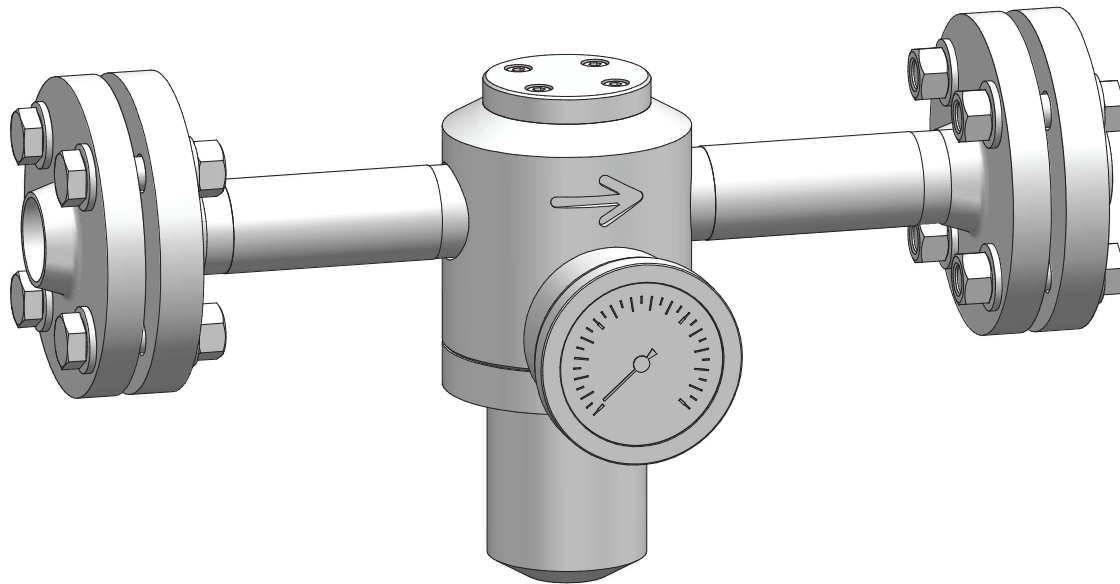


Reliquification protection

Pressure reducing valve C 7110

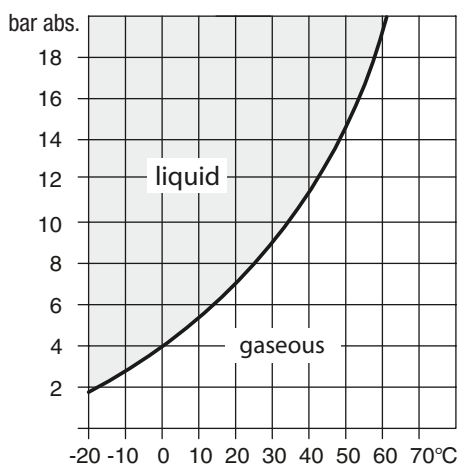


Reliquification protection

The principle field of application for the pressure reducing valve is the prevention of pressure- or temperature-related reliquification of chlorine gas in order to prevent the destruction of PVC parts.

The device reduces the inlet pressure to a level where chlorine reliquification in the subsequent line would occur only if the temperature fell well below 0°C. However, such temperatures practically never occur.

The pressure reducing valve gives reliquification protection only to the installation subsequent to the direction of flow. For this reason the pressure reducing valve should be installed as closely as possible behind the chlorine tank (in case of chlorine gas supply) or chlorine evaporator (in case of liquid chlorine extraction). We recommend installing a filter ahead of the pressure reducing valve.



Functions

- Max. flow rate 200 kg Cl₂/h
- Max. inlet pressure 16 bar.
- Outlet pressure set at approx. 1.5 bar
- Compact construction
- Available as device with flange connection or with 1" NPT female thread
- Manometer to indicate reduced pressure as option

Technical data

Inlet pressure	bar	Max. 16
Outlet pressure	bar	1.5 approx.
Throughput	kg Cl ₂ /h	Max. 200
Materials		Steel, Monel, PTFE, FPM, Hastelloy
Weight	with flanges and manometer	11 approx.
	with 1" NPT female thread and manometer	5 approx.

Model variants

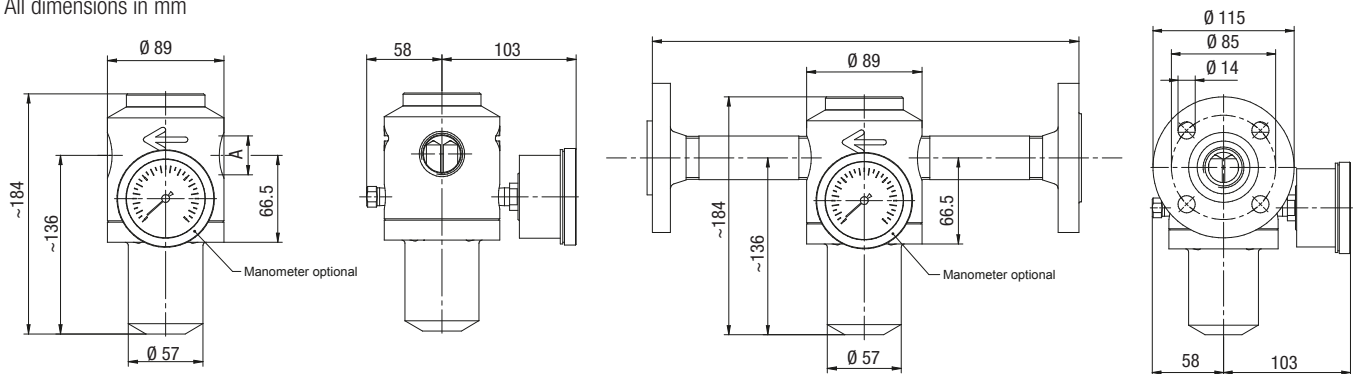
Variant	Connection
C 7110 without pressure gauge	1" NPT female thread Flange DN25/PN40 compliant with EN 1092 Form C (spring) and Form D (groove)
C 7110 with pressure gauge	1" NPT female thread Flange DN25/PN40 compliant with EN 1092 Form C (spring) and Form D (groove)

Scope of delivery

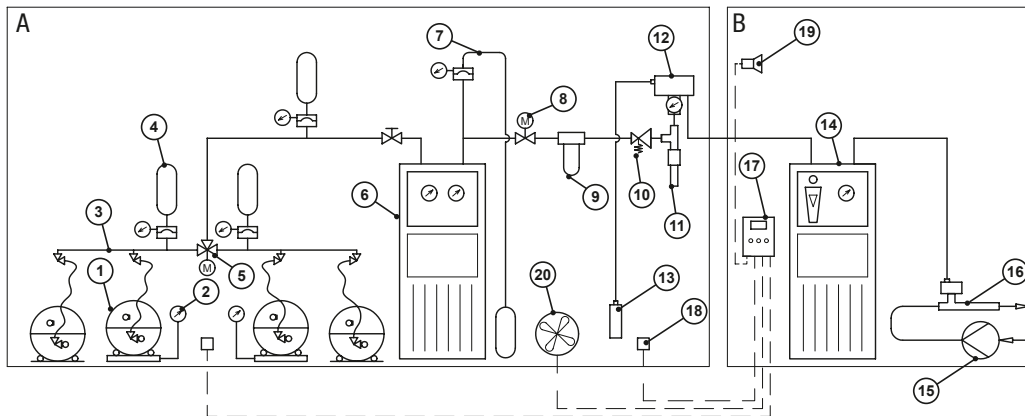
- The flanged version of the device includes seals and counterflanges
- The 1" NPT female thread version includes only the device itself

Dimensions

All dimensions in mm



Installation example



Item	Description	Item	Description
A	Room for the chlorine supply	10	Pressure reducing valve
B	Dosing device room	11	Moisture eliminator with heating collar
1	Chlorine barrel	12	Vacuum regulator
2	Chlorine barrel scale	13	Activated carbon cartridge
3	Pressurized manifold	14	Dosing device
4	Expansion system for piping	15	Motive water pump
5	Changeover switch	16	Injector with non-return valve
6	Chlorine evaporator	17	Gas warning device
7	Expansion system for chlorine evaporator	18	Gas sensor
8	Automatic chlorine ball-valve	19	Horn
9	Chlorine gas filter	20	Entrance port of the chlorine eliminator