

Product Information Motive water set

Constant supply pressure

Motive water sets are pre-assembled fittings in various configurations used together with booster pumps to guarantee constant supply pressure for chlorine gas ejectors.

The most important part of the motive water set is the pressure reducing valve. The valve counteracts all pressure fluctuations in the booster pump that arise due to a fluctuating feed pressure or fluctuating extraction from multiple connected dosing systems.

The pressure reducer is equipped generally with an integrated strainer and a pressure gauge displaying the reduced pressure.

Besides the standard configuration with built-on shutoff valve, a configuration with additional solenoid valve can also be delivered. This configuration is required if you want to stop the supply to the ejector without stopping the booster pump at the same time.

A configuration with PVC non-return valve is used often to prevent chlorinated water from reaching red brass fittings when the system is stationary.

Order example

For a C 2525 chlorination system, an ejector has been chosen that requires 5.2 m³/h motive water. Since the booster pump can operate only one chlorination system, you can actuate the system by switching on and off the booster pump. A solenoid valve is not required.

We recommend that you use a pressure gauge to display the reduced pressure – this enables the water pressure to be reduced to the lowest possible level for the ejector to still function well. This avoids unnecessary noises and a vacuum that is unnecessarily large.

This means that you should choose a pressure reducer with pressure gauge and shutoff valve in the nominal diameter DN 32 with a maximum throughput of 6 m³/h.



In short

- Pre-assembled fixture
- Constant supply pressure for ejectors
- Max. flow rate 24 m³/h

Technical data

	DN 15	DN 32	DN 50
Nominal width	DN 15	DN 32	DN 50
Max. flow rate	3 m³/h	6 m³/h	24 m³/h
Pressure reducer setting range	1.5 ... 6.0 bar		
Max. supply pressure	16 bar		
Pressure reducer equipment	Pressure gauge 0 ... 10 bar, Ø63 mm Strainer		
Material for shutoff valve, pressure reducer, solenoid valve	Red brass		
Material for non-return valve	PVC / FPM / Hastelloy		
Max. operating temperature	40 °C		
Solenoid valve	230 V, 50/60 Hz		

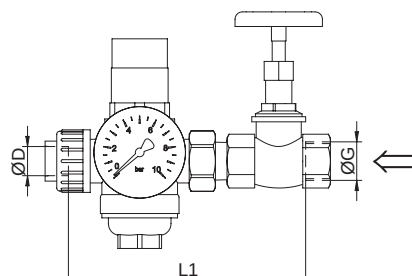
Model variants

Description	Nominal width		
	DN 15	DN 32	DN 50
Shutoff valve, pressure reducer	22913611	22913614	22928685
Shutoff valve, pressure reducer, solenoid valve	22913619	22913622	22928687
Shutoff valve, pressure reducer, non-return valve	22900041	22900042	22900043
Shutoff valve, pressure reducer, solenoid valve, non-return valve	22900015	-	-

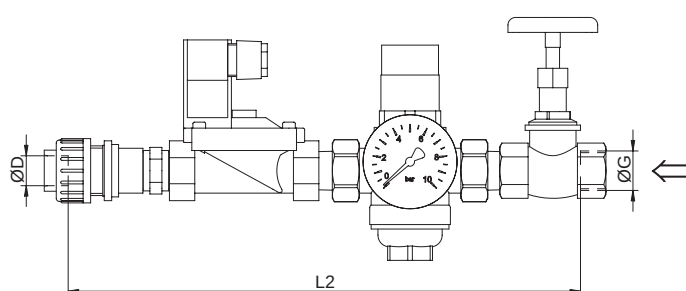
Spare parts

Description	Nominal width		
	DN 15	DN 32	DN 50
Pressure gauge 0 ... 6 bar	87384		
Pressure gauge 0 ... 10 bar	87149		
Pressure gauge 0 ... 16 bar	87372		
Filter insert for pressure reducer	88280	88282	88284
Strainer for pressure reducer	88281	88283	88235
Mounting tool for strainer	31367	31368	31369
Pressure reducer without pressure gauge	82027	82946	88016
Solenoid valve 230 V, 50/60 Hz	82029	82949	88018
Non-return valve without spring	28778	28780	28782
Spring for non-return valve	28777	28789	28790

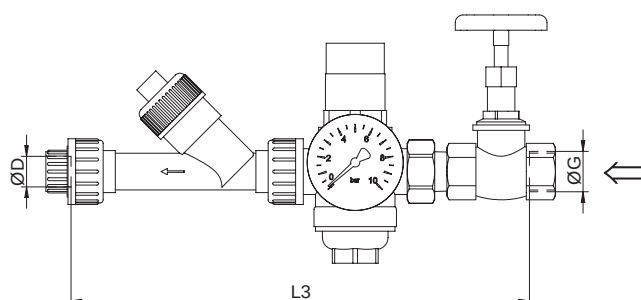
Dimensional figure



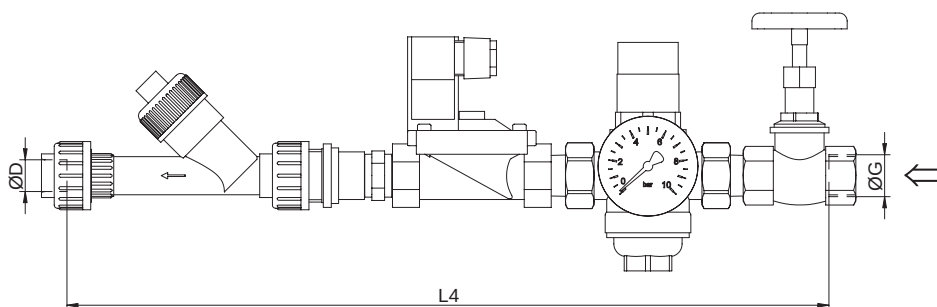
Shutoff valve and pressure reducer



Shutoff valve, pressure reducer and solenoid valve



Shutoff valve, pressure reducer and non-return valve



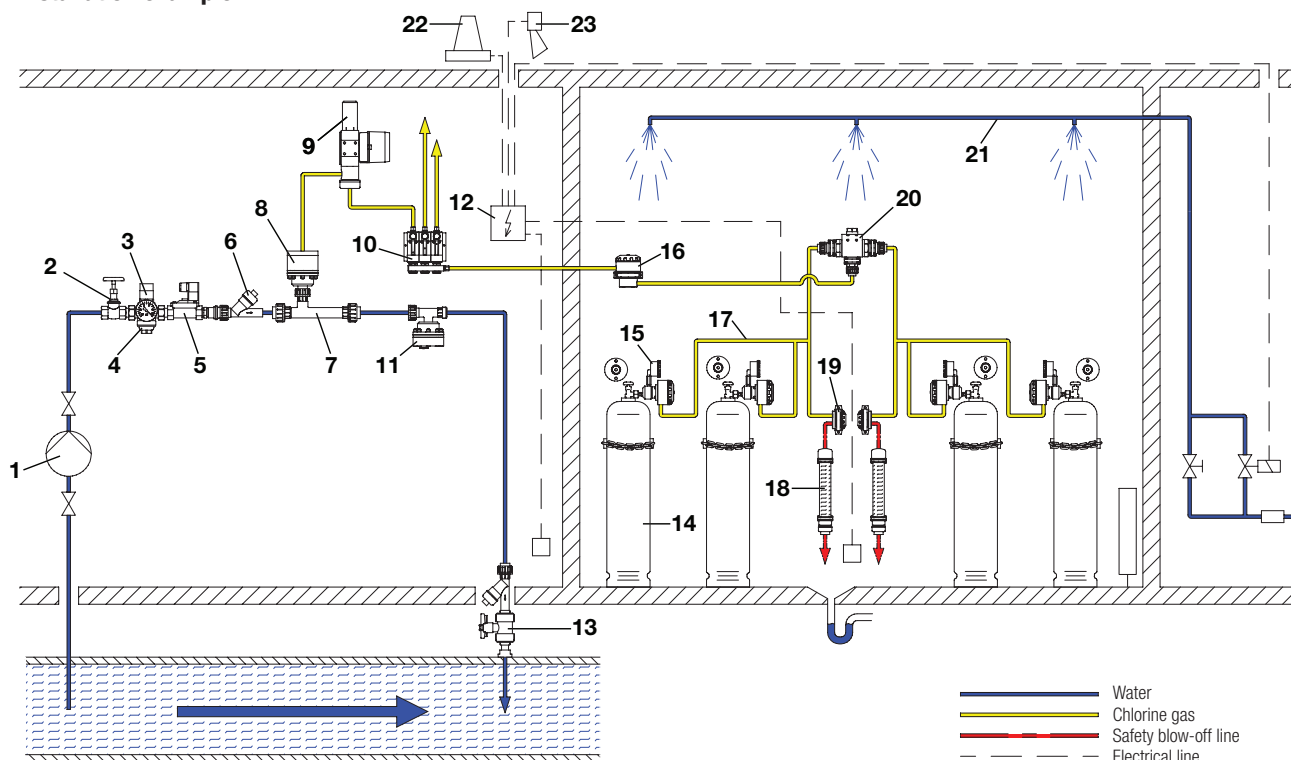
Shutoff valve, pressure reducer, solenoid valve and non-return valve

		Nominal width		
		DN 15	DN 32	DN 50
Internal thread at the input	ØG	G 3/4	G 1 1/4	G 2
PVC glued socket at the output	ØD	20	40	63
Lengths	L1	163	258	338
	L2	343	384	490
	L3	300	448	589
	L4	480	-	-

All dimensions in mm

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Installation example



1	Booster pump
2	Shutoff valve
3	Pressure reducer with pressure gauge
4	Dirt trap
5	Solenoid valve
6	Non-return valve
7	Ejector
8	Ejector non-return valve
9	Control valve
10	Flow meter
11	Vacuum breaker
12	Chlorine gas warning unit with sensors

13	Chlorine solution injector
14	Chlorine cylinder
15	Vacuum regulator
16	Safety shutoff valve
17	Vacuum manifold
18	Activated carbon cartridge
19	Safety blow-off valve
20	Vacuum changeover switch
21	Sprinkler system
22	Signal lamp
23	Alarm horn

Declaration of Harmlessness

Please fill out a separate form for each appliance!

We forward the following device for repairs:

Device and device type:

Part-no.:

Order No.:

Date of delivery:

Reason for repair:

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Dosing medium

Description:

Irritating: ☐ Yes ☐ No

Properties:

Corrosive: ☐ Yes ☐ No

We hereby certify, that the product has been cleaned thoroughly inside and outside before returning, that it is free from hazardous material (i.e. chemical, biological, toxic, flammable, and radioactive material) and that the lubricant has been drained.

If the manufacturer finds it necessary to carry out further cleaning work, we accept the charge will be made to us.

We assure that the aforementioned information is correct and complete and that the unit is dispatched according to the legal requirements.

Company / address:

Phone:

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Fax:

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Email:

Customer No.:

Contact person:

Date, Signature:

Warranty Application

Please copy and send it back with the unit!

If the device breaks down within the period of warranty, please return it in a cleaned condition with the complete warranty application, filled out.

Sender

Company: Phone: Date:

Address:

Contact person:

Manufacturer order no.: Date of delivery:

Device type: Serial number:

Nominal capacity / nominal pressure:

Description of fault:.....

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Service conditions of the device

Point of use / system designation:.....

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Accessories used (suction line etc.):.....

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Commissioning (date):

Duty period (approx. operating hours):

Please describe the specific installation and enclose a simple drawing of the chemical feed system, showing materials of construction, diameters, lengths and heights of suction and discharge lines.