

General

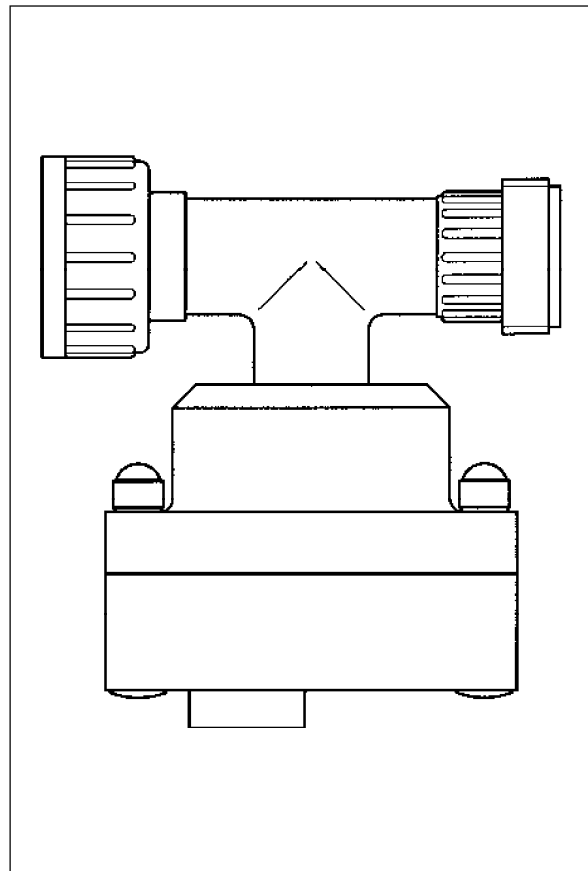
Chlorination plants according to DIN 19606 are operated under vacuum which is produced by an ejector. The motive water required is supplied either by a booster pump or by hydraulic pipes. Many plants are switched off simply by interrupting the motive water supply. In this type of plants, often vacuum breakers must be used in order to avoid undesired chlorination.

Use

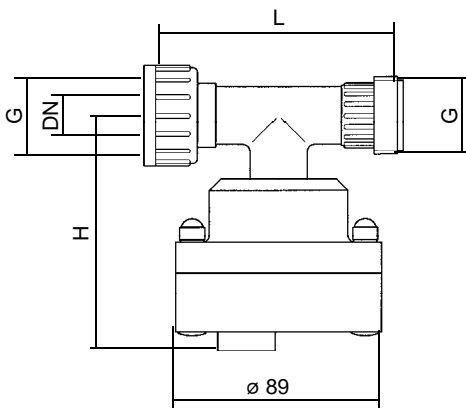
Vacuum breakers are required if, after switching off the motive water supply, the vacuum exceeds 0.1 bar due to system-related conditions. The vacuum can be caused by a geodetic difference in altitude of the chlorine solution injection point (see installation example) or by a vacuum in the main pipe.

Function

The vacuum breaker is designed like an ejector nonreturn valve. The opening pressure is however just 0.05 bar (compared to 0.1 bar of the ejector nonreturn valve). As a result, the vacuum breaker lets air enter the pipe before chlorine is unintentionally primed.



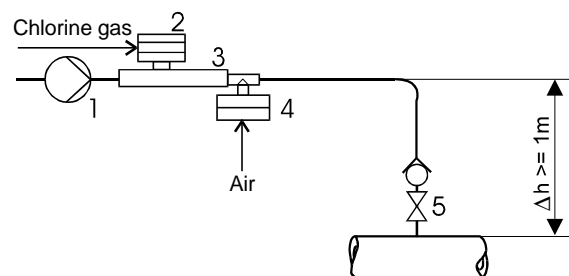
Dimension Drawing



Installation

The vacuum breaker is directly screwed on the ejector, the air inlet showing downward.

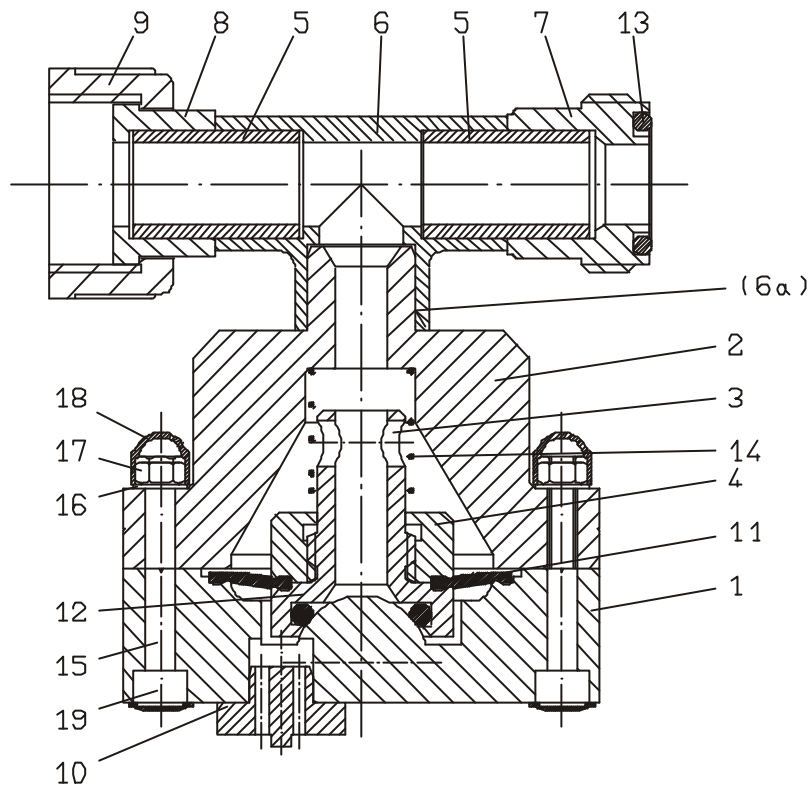
Installation Example



DN	Ejector Type	G	H	L	Part No.
15	A, B, E, AH	1	102	100	23333603
20	BH	1 1/4	108	117	23333799
32	C, F	2	114	116	23333604

Legend

- 1 Booster pump
- 2 Ejector nonreturn valve
- 3 Ejector
- 4 Vacuum breaker
- 5 Chlorine solution injection



Item	Quantity	Description	Material	Part No.		
				DN 15	DN 20	DN 32
1	1	Housing	PVC	33601	33601	33601
2	1	Base	PVC	13564	13564	13564
3	1	Diaphragm holder	PVC	32914	32914	32914
4	1	Threaded ring	PVC	33183	33183	33183
5	2	Piping	PVC	32617	32987	26541
6	1	T piece	PVC	82083	82914	88001
6a	1	Reduction	PVC	—	13641	—
7	1	Adaptor	PVC	22260	22261	22341
8	1	Flange bushing	PVC	10088	82952	22257
9	1	Union nut	PVC	10068	82213	22259
10	1	Nozzle plug	PVC	13610	13610	13610
11	1	Flat diaphragm	Viton	81003	81003	81003
12	1	O-ring	Viton	80587	80587	80587
13	1	O-ring	Viton	80075	80076	80130
14	1	Pressure spring	Hastelloy	13535	13535	13535
15	8	Screw	A4	83604	83608	83604
16	8	Washer	A4	84202	84164	84164
17	8	Hexagonal nut	A4	83009	83616	83616
18	8	Protective cap	PE	83784	83784	83784
19	8	Dust cap	PVC	29117	29117	29117
Vacuum breaker assembly				23333603	23333799	23333604

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:
.....
.....

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:

..... Fax:

..... 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.