Product Information Catchpot

Protects against liquid chlorine

Chlorine vacuum regulators made of PVC are ideal for operation with chlorine gas as PVC is completely resistant to the chemical corrosion of gaseous chlorine.

However, liquid chlorine may cause major contamination in vacuum regulators and also cause damage to the PVC in parts. Therefore the penetration of liquid chlorine into the units must be avoided.

Possible applications

Causes of liquid chlorine in chlorinators may be the condensation of chlorine gas on the one hand and the connection of a new drum on the other hand.

Condensation of chlorine gas occurs at any place in the pressure system which is colder than the chlorine tank. These situations occur, for example, due to extremely varying temperatures during the day and night. Chlorine drum or chlorine cylinders have a large mass which cools down more slowly than pipes and devices during the night.

Chlorine drums have two valves for chlorine discharge. Gaseous chlorine can be discharged on the top connection and liquid chlorine on the bottom connection due to the bent pipes connected inside the drum. However, the inner pipe for the gas connection is filled with liquid chlorine during transportation. Up to 100 cm³ of liquid chlorine initially comes out of the gas valve when connecting a new drum.

We recommend using a catchpot in both cases to protect the dosing units.

Compact and durable

The catchpot is installed directly upstream of the vacuum regulator. It is installed directly on the drum with units of up to 10 kg/h, whereas wall assembly is required with larger units.

Catchpots are vertically positioned containers where liquid chlorine is collected. Liquid chlorine is slowly evaporated by the energy in the atmosphere or by means of a heating sleeve which heats up the catchpot.

The simple and robust design of the catchpot assures a long service life with minimum maintenance.

At a glance

- Protects the vacuum regulator against small amount of liquid chlorine
- Suitable for drum and wall mounting
- Heating sleeves as an optional accessory
- Long service life
- Low maintenance effort

Technical data

Nominal pressure		PN25
Weight	125 ml	approx. 3 kg
	250 ml	approx. 3 kg (+ approx. 1 kg per flange)
	1000 ml	approx. 8 kg
Max. operating temperature		50 °C
Housing material		Carbon steel

Spare parts

Connection seals at the input	Order no.
Threaded pin BSP 5/8	81832
Union nut BSW 1“	81043
Union nut BSW 1 1/4"	81835
Flange DN25/PN40 with groove/tongue	81421

Connection seals at the output	Order no.
Universal head BSP 5/8	81832
Threaded pin BSP 3/4	81833
Threaded pin BSW 1"	81834
Threaded pin 1.030" x 14NGO	81836
Flange DN25/PN40 with groove/tongue	81421

Accessories

Heating sleeves		Order no.
for 1" steel pipes suitable for catchpots of up to 250 ml with a 3 m cable and mounting material	25 W, 240 V	40499
	25 W, 120 V	40498
for 2" steel pipes suitable for catchpots of up to 1000 ml with a 3 m cable and mounting material	30 W, 240 V	40204
	30 W, 120 V	40205

Flanges DN25 / PN40 with groove / tongue according to EN 1092-1		Order no.
Weld neck flange	Tongue flange	39516
	Groove flange	39517
Threaded flange 1" NPT female flange	Tongue flange	15927
	Groove flange	15928
Assembly accessories for flanges, screws, nuts, washers, seals (assembly accessories are included in the catchpot)		38712

Tongue flanges match the input and groove flanges match the output of the catchpot.

Auxiliary valves for connection to the valve of the pressure container			Order no.
Output: Threaded pin BSP 5/8	Input	according to the standard	
	BSW 1"	DIN 477	22338693
	BSP 5/8	BS 341	22338694
	BSP 3/4	AS 2473	22338695
	1.030" x 14NGO	CGA V-1 (660)	22338696
	YOKE	CGA V-1 (820)	22338697
	BSW 1 1/4"	DIN 4676	22338698
	M26x3	-	22300065
Key for operation of auxiliary valves			38684
Flexible connecting line 2m long, with BSP 5/8 union nut on both sides Connection between auxiliary valve and wall-mounted catchpot			88566

Dimensional figure

Catchpot for drum mounting

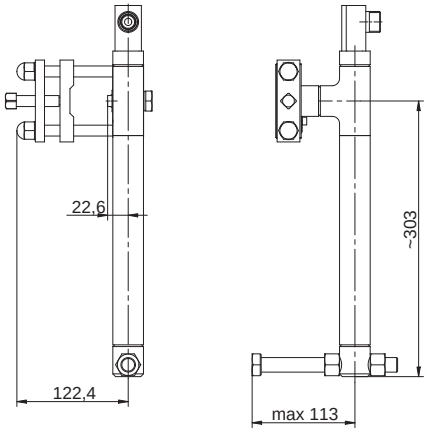

Fig. 1: Catchpot for drum mounting with YOKE connection

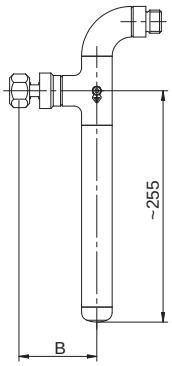

Fig. 2: Catchpot for drum mounting with union nut

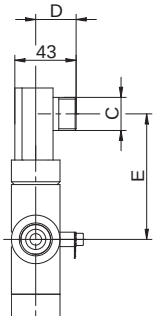

Fig. 3: Output with universal head BSP 5/8

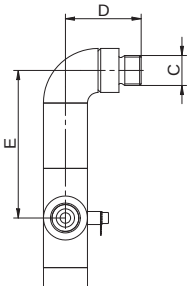

Fig. 4: Output with threaded pin

Volume	Input			Output				Order no.
		Figure	Dim. B	Dim. C	Figure	Dim. D	Dim. E	
125 ml (for 1 drum)	Universal YOKE	1	-	BSP 5/8	3	28	137	22300101
				BSP 3/4	4	58	63	22300102
				BSW 1"				22300103
				1.030“ x 14 NGO				22300104
	Union nut BSW 1“	2	98	BSW 1"				22300106
	Union nut BSW 1 1/4"		86					22300105

Catchpot for wall mounting

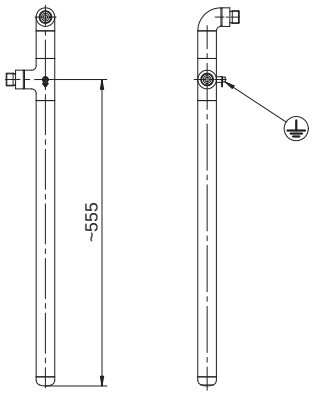

Fig. 5: Main dimensions for all wall-mounted devices

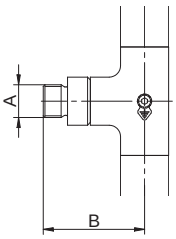

Fig. 6: Input BSP 5/8

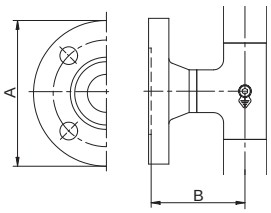

Fig. 7: Output flange with groove

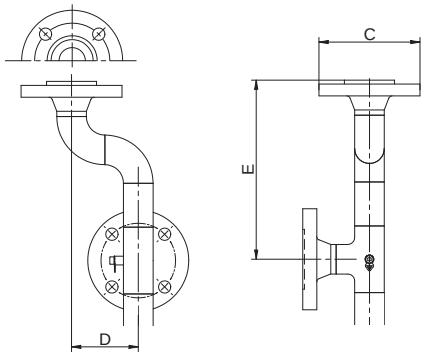

Fig. 8: Output flange with tongue

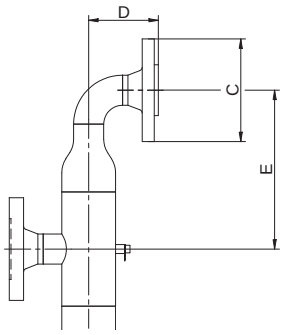

Fig. 9: Output with lateral flange with tongue

Volume	Input				Output				Order no.
	of	Dim. A	Figure	Dim. B	Dim. C	Figure	Dim. D	Dim. E	
250 ml (for max. 2 drums)	Left	BSP 5/8	6	71	BSP 5/8	3	28	137	22300202
	Right								22300203
	Left				BSP 3/4	4	58	113	22300204
	Right								22300205
	Left				BSW 1"				22300206
	Right								22300207
	Left				1.030“ x 14 NGO				22300208
	Right								22300209
	Left	Flange with groove	7	74	BSP 5/8	3	28	137	22300212
	Right								22300213
	Left				BSP 3/4	4	58	113	22300214
	Right								22300215
	Left				BSW 1"				22300216
	Right								22300217
	Left				1.030“ x 14 NGO				22300218
	Right								22300219
	Left				Flange with tongue	8	76	204	22300250
	Right								22300251
1000 ml (for max. 8 drums)	Left			87				256	22300252
	Right								22300253
	Any					9	78	178	22300254

All dimensions in mm

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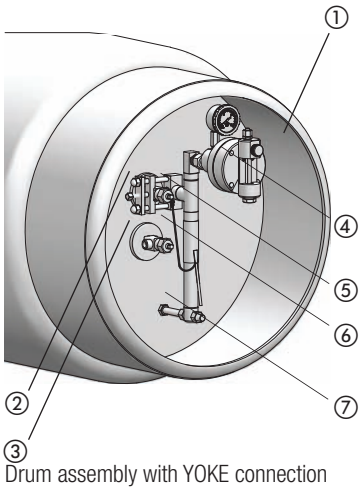
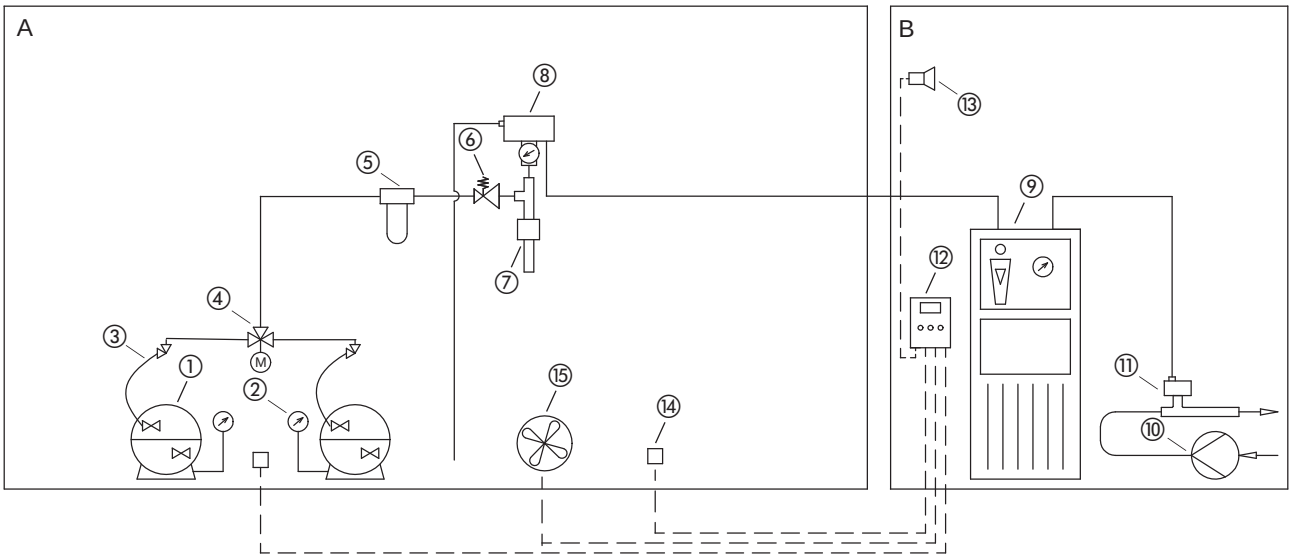
Installation examples



Drum assembly with YOKE connection

Position	Description
①	Chlorine drum
②	Output for gaseous discharge
③	Output for liquid discharge
④	Vacuum regulator
⑤	Catchpot
⑥	Heating sleeve
⑦	Distance piece



Wall assembly

A	Room for the chlorine supply
①	Chlorine drum
②	Chlorine drum scale
③	Manifold
④	Changeover valve
⑤	Chlorine gas filter
⑥	Pressure reducing valve
⑦	Catchpot with heating collar
⑧	Vacuum regulator
⑭	Gas sensor
⑮	Entrance port of the chlorine eliminator

B	Dosing unit room
⑨	Dosing unit
⑩	Motive water pump
⑪	Injector with non-return valve
⑫	Gas warning device
⑬	Horn

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