

CONTENT

# DISINFECTION SYSTEMS

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## Chlorine gas systems

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SAFETY FIRST

# CHLORINE GAS SYSTEMS



This technology has been used for decades for disinfection of pool water, mainly in large public swimming pools. dinotec Servodos systems, designed according to the vacuum process to DIN 19606, meet the highest safety standards. The modular program ranges from plain manual systems up to fully automated systems.

## INFORMATION

- dinotec CHLORINE GAS SYSTEMS – A CONVINCING TECHNOLOGY**
- Maximum safety with vacuum control
  - Use of chlorine without carrier materials (i.e. 100% chlorine)
  - Easy operation
  - Optimized construction costs due to modular design
  - Precise dosing technology
  - Low installation costs
  - Easy-to-service assembly groups
  - Manual or fully automatic systems
  - Fulfills DIN requirements
  - Consulting, planning, project development by dinotec
  - Maintenance according to GUV (accident prevention regulation) by dinotec

	DESCRIPTION	ART. NO.	
	<b>VACUUM REGULATOR DCG 4004</b>		
	Vacuum regulator with pressure gauge for installation into cylinder or collecting pipe in partial vacuum or all vacuum systems. Areas of use start from a manual dosing of chlorine gas up to an automatic control with actuator. <b>Capacity max. 4000 g chlorine/h</b>		
	Without flow-rate limitation	0310-014-00	B
	With flow-rate limitation	0310-014-90	B
	<b>VACUUM SAFETY VALVE 543</b>	0330-192-00	B
	To prevent a build-up of pressure in the vacuum line to the injector Connections PE hose 8x11 for chlorine gas system		
	<b>VACUUM REGULATOR DCG 10</b>	0310-003-00	B
	Vacuum regulator for installation into cylinder or collecting pipe in partial vacuum or all vacuum systems. Areas of use start from a manual dosing of chlorine gas up to an automatic control with actuator. <b>Capacity max. 10000 g chlorine/h</b> <b>With pressure gauge (impervious to fluids)</b>		
	<b>DCG-U CHANGEOVER SWITCH</b>		
	Automatic changeover switch for 2 cylinder banks in all vacuum or partial vacuum systems. The changeover switches work without any auxiliary power.		
	DCG - U4 / up to 4000g chlorine/h for hose 8/11	0330-070-00	B
	DCG - U10 / 4000-10000g chlorine/h for hose 10/14	0330-080-00	B
	<b>COLLECTING PIPE (PVC)</b>		
	For all-vacuum systems		
	Basic kit for 2 cylinders	0310-038-00	A
	Extension kit for 1 bottle each	0310-045-00	A
	<b>WALL HOLDER FOR VACUUM CONTROLLER</b>	0310-215-00	B
	Including screws and dowels		
	<b>ABSORPTION CYLINDER FOR CHLORINE GAS SYSTEMS</b>	0310-040-00	A
	Filled with 4.7l activated carbon		
	Securing clamp hot-dip galvanized For 1 chlorine gas cylinder each	0340-025-00	A
	Support and assembly aid (Müpro rail) For securing clamps of chlorine gas cylinders	0300-010-00	A

DESCRIPTION

ART. NO.

**DOSING SYSTEM Servodos DCG - H**

Manual chlorine gas dosing valves for installation between injector and vacuum controller.  
An integrated secondary pressure control ensures a constant vacuum and a constant volume flow.  
Wall mounting plate (0320-000-00) required.

Dosing range Cl <sub>2</sub> /h	Man. adjustment Cl <sub>2</sub> /h	ART. NO.	
2 - 40 g	2 - 40 g	✓ 0320-001-05	C
5 - 100 g	5 - 100 g	✓ 0320-002-05	C
10 - 250 g	10 - 250 g	✓ 0320-003-05	C
25 - 500 g	25 - 500 g	✓ 0320-004-05	C
50 - 1000 g	50 - 1000 g	✓ 0320-005-05	C
100 - 2000 g	100 - 2000 g	✓ 0320-006-05	C
150 - 3000 g	150 - 3000 g	✓ 0320-007-05	C
400 - 4000 g	400 - 4000 g	✓ 0320-008-05	C

**DOSING SYSTEM Servodos ERGO**

Servodos chlorine gas dosing unit with electrical actuator (230V/50Hz) for connection to a 3-position controller, with feedback potentiometer. Connection for PE line 8/11 mm.

Dosing range Cl <sub>2</sub> /h	ART. NO.	
2 - 40 g	✓ 0320-370-92	D
5 - 100 g	✓ 0320-371-92	D
10 - 250 g	✓ 0320-372-92	D
25 - 500 g	✓ 0320-373-92	D
50 - 1000 g	✓ 0320-374-92	D
100 - 2000 g	✓ 0320-375-92	D
150 - 3000 g	✓ 0320-376-92	D
400 - 4000 g	✓ 0320-377-92	D

**DOSING SYSTEM Servodos**

Servodos chlorine gas dosing system with electrical actuator (230V/50Hz) with a dosing range of up to 10.0 kg chlorine per hour.


Dosing range Cl <sub>2</sub> /h	ART. NO.	
0.3 - 6 kg	✓ 0320-378-00	C
0.4 - 8 kg	✓ 0320-379-00	C
0.5 - 10 kg	✓ 0320-380-00	C

**INJECTORS**


For chlorine gas pipes and PVC motive water pipes



Model	Dosing range Cl <sub>2</sub> /h	Motive water pipe max.	ART. NO.		
DCG 06	up to 500 g	DN 20/d 25	8/11 PE pipe	✓ 0330-101-00	A
DCG 06	up to 1000 g	DN 20/d 25	8/11 PE pipe	✓ 0330-102-00	A
DCG 06	up to 2000 g	DN 20/d 25	8/11 PE pipe	✓ 0330-103-00	A
DCG 06	up to 4000 g	DN 20/d 25	8/11 PE pipe	✓ 0330-104-00	A
DCG 10	up to 10000 g	DN 25/d 32	10/14 PE pipe	✓ 0330-098-00	A

DESCRIPTION	ART. NO.
<b>SECOND CHECK VALVE FOR INJECTORS</b>	
 <p>Extension, installation directly on the injector or in the vacuum line (depending on version). Installation always upright (vertical).</p>	



Dosing range Cl <sub>2</sub> /h	Assembly	ART. NO.
DCG 06	Installation on injector	<b>0330-097-00</b> A
DCG 06	Installation in vacuum line 8/11 mm	<b>0330-099-00</b> A

<b>PRESSURE BOOSTER SYSTEM (MOTIVE WATER) WITHOUT INJECTOR</b>	
 <p>With pressure controller, pump, strainer, spring-loaded check valve, sampling, injection valve.</p>	

Dosing range Cl <sub>2</sub> /h	Connection	ART. NO.
up to 2000 g	1"/d25	<b>0330-220-92</b> A
up to 4000 g	1 1/4"/d32	<b>0330-222-91</b> A


## CHLORINE GAS CONNECTING PARTS


CONNECTING PARTS	
For flexible PE chlorine gas line 8/11 mm	
	Adhesive nipple in PVC d 12 mm <b>1330-060-00</b> A
	Adhesive nipple in PVC d 16 mm <b>1330-075-00</b> A
	Adhesive nipple in PVC d 20 mm <b>1330-080-00</b> A
	With external thread R 1/4" <b>1330-065-00</b> A
	T-piece in PVC (vacuum) <b>1320-165-00</b> A
	Ball valve DN 10/d 16 <b>1330-070-00</b> A
	Hose coupling <b>1320-120-00</b> A
	Ball valve PVC R 1/4 <b>1320-050-00</b> A

CONNECTING PARTS	
For flexible PE chlorine gas line 10/14 mm	
	Adhesive nipple in PVC d 16 mm <b>1330-090-00</b> A
	Adhesive nipple in PVC d 20 mm <b>1330-095-00</b> A
	With external thread R 1/2" <b>1330-085-00</b> A
	T-piece in PVC (vacuum) <b>1330-100-00</b> A
	Ball valve DN 15/d 20 <b>1320-075-00</b> A
	Hose coupling <b>1330-106-00</b> A

	<b>HOSE COUPLING 8/11 - 10/14 MM</b> <b>1330-105-00</b> A
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PE CHLORINE GAS LINE	
Price per meter	
	8/11 mm <b>1320-105-00</b> A
	10/14 mm <b>1330-130-00</b> A

	<b>CALCIUM CARBONATE REACTOR</b> <b>0350-110-92</b> B
<p>Consisting of:                      Pressure reactor in GRP 280l (operating pressure max. 2.5 bar), colour: yellow (RAL 1021), top sight-glass (filling port) in plexiglass with threaded connection R 3/4" female thread for automatic vent valve.                      Plexiglas sight-glass in the bottom part of the tank, differential pressure overflow valve 1 1/4", PVC connection fitting with male thread 1/4" and hose connection 8/6 mm, 5 m PE hose 8/6 mm.</p> <p>Contents: approx. 174l                      Initial filling: 250 kg marble gravel</p>	

MARBLE GRAVEL (CALCIUM CARBONATE)	
	Granulation 4-6 mm Calcium carbonate Juraperle 25 kg Sack
	Price per kg <b>0350-200-00</b> B
	Price per bag



## Beautiful pools

Together with our partners, we have realized many of the most beautiful pools all over the world.

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See the following examples.

CHLORINE GAS SYSTEMS

# dsc Touch GAS

Measuring and control device for gas concentration in the ambient air.




## PRODUCT INFORMATION

Features:

- + Two measuring inputs, optionally Cl<sub>2</sub>, ClO<sub>2</sub> or O<sub>3</sub>
- + Two digital inputs, e.g. for door contact
- + Three relays, potential-free contact, incidents that activate the system can be selected, e.g. for sprinkler system
- + Analog output 0/2 - 20 mA., galvanically isolated, configurable. Working resistance max. 500 ohm. A 22 mA alarm function can be set
- + Touch screen with Eco mode
- + Integrated SD card function to store the device settings
- + Test menu for checking the wiring
- + Event memory for last 100 events
- + IP 65
- + Accessories for wall mounting








DESCRIPTION	ART. NO.
 <b>dsc Touch GAS</b>	<input checked="" type="checkbox"/> <b>0410-300-00</b> A

## Accessories dsc Touch Gas

DESCRIPTION	ART. NO.
<b>MODBUS RTU</b> RS 485 card	<input checked="" type="checkbox"/> <b>0410-301-00</b> A
<b>SECOND ANALOG OUTPUT 0/2 - 20MA</b> <ul style="list-style-type: none"> <li>• Galvanically isolated</li> <li>• Can be configured. Working resistance max. 500 ohm</li> <li>• A 22 mA alarm function can be set</li> </ul>	<input checked="" type="checkbox"/> <b>0410-302-00</b> A
<b>DATA LOGGER</b>	<input checked="" type="checkbox"/> <b>0410-303-00</b> A
<b>SENSOR HOLDER FOR dsc Touch Gas</b> With M 12 connection excl. cable	<input checked="" type="checkbox"/> <b>0410-304-00</b> A
<b>CONNECTION CABLE FOR SENSOR HOLDER</b> <ul style="list-style-type: none"> <li>• 5-wire cable, 5 x 0.25 mm<sup>2</sup></li> <li>• Shielded</li> <li>• Length 10 m</li> <li>• Connector type M12 (female, other end ferrules)</li> </ul>	<input checked="" type="checkbox"/> <b>0410-305-00</b> A
<b>SENSOR POTENTIOSTATIC</b> Suitable for dsc Touch GAS and dsc Eco Gas	
Chlorine 0 - 10 ppm	<input checked="" type="checkbox"/> <b>0410-052-00</b> A
Ozone 0 - 1 ppm	<input checked="" type="checkbox"/> <b>0410-016-00</b> A
Chlorine dioxide 0 - 10 ppm	<input checked="" type="checkbox"/> <b>0410-014-00</b> A

## ACCESSORIES FOR CHLORINE GAS AND SAFETY SYSTEMS

DESCRIPTION	ART. NO.	
<b>SENSOR HOLDER FOR dsc ECO Gas</b> <ul style="list-style-type: none"> <li>• With 10 m cable for dsc gas sensors</li> <li>• Not suitable for dsc Touch GAS</li> </ul>	0410-306-00	A
<b>CABLE EXTENSION FOR GAS SENSORS</b> <ul style="list-style-type: none"> <li>• Extra charge for each additional meter</li> <li>• Maximum length is 50 m. (Please state the total length in your order!)</li> </ul>	0410-051-00	A
<b>dinotec ACCESSORIES FOR CHLORINE GAS AND SAFETY SYSTEMS/EQUIPMENT</b>		
UPS = uninterruptible power supply		
	Sprinkler system for 1 nozzle, complete with all fittings, extended spindle	0430-010-00 A
	Extension kit for sprinkler system for 1 nozzle each	0430-011-00 A
	Alarm horn (inside) 230V/IP55	0430-021-00 A
	Alarm horn (outside) 230V/IP 65	0430-022-00 A
	Warning light red (inside), 230V/IP55	0430-023-00 A
	Set of warning signs for chlorine gas to GÜV 8.15 (German Safety Regulation)	0300-600-90 A
	Door switch (switch for deactivating the sprinkling)	0420-060-00 A
	Wall box for sprinkler systems with lock and break glass	0420-070-00 A
	Respirator with screw filter (chlorine gas)	0300-401-00 A
	Protective clothing complete for chlorine gas room	0420-000-90 A
	Spare screw filter chlorine gas, EC201, type B2	0420-003-00 A
	Safety gloves, size 10	0420-010-00 A
	Protective apron made of rubber	0420-011-00 A
	Safety boots	0420-012-00 A
	Protective goggles	0300-430-00 A
	Finned heaters 230V/1000W/IP67, thermostat included	0430-012-00 A
	Emergency kit for Cl <sub>2</sub> cylinder 65 kg	0340-030-00 A
	UPS - 230V AC, 20W/4h	0450-010-90 A
	Spare accumulator for UPS	0450-018-00 A
	Control cabinet for UPS, AE compact, 300 x 300 x 210 mm	0450-012-00 A
	Ammonia test solution (50ml)	0310-070-00 A
	Flow monitor for installation in inlet pipe of sprinkler system	0430-015-00 A

## INFORMATION

### DELIVERY

We supply all further chlorine gas components and accessories required for this range. We also offer project-related chlorine gas systems on request. If required, please contact either our sales representatives or our project specialists in Nidderau/Germany.