

INSTALLER CATALOGUE 2019



GCE WORLDWIDE



www.gcegroup.com

THE GCE BUSINESS

GCE has almost 100 years of experience in the manufacture and supply of high pressure gas equipment. During this time the GCE product range has increased dramatically. Today's product portfolio fits a large variety of applications, from simple pressure regulators and blowpipes for cutting and welding to highly sophisticated gas supply systems for the medical, electronic and analytical industries.

GCE GROUP INCLUDES FOUR BUSINESS AREAS:

Cutting & Welding Technologies
Valves
Healthcare
Druva

ORIGINS

The origins of GCE (Gas Control Equipment) go back to the start of the 20th century when Gas Welding was first invented. The GCE group was formed as an independent company in 1987 through the merging of two of the worlds leading gas and welding companies into one independent unit. GCE has grown rapidly since its establishment and is leading the restructuring of the European gas equipment industry through mergers and acquisitions.

Through its extensive Research and Development programs GCE has set standards that have become the benchmark for the whole industry.

GCE SERVICES

The main industrial customers for GCE are wholesalers and local distributors. However in some markets GCE distributes equipment with the full cooperation of the main gas supplier for that market.

For these companies GCE provides both commercial and technical support. A significant part of the sales volume in this area also comes from key end user accounts such as shipyards, repair shops, OEM customers and welding machine manufacturers.

A COMPLETE RANGE FOR MEDICAL

The supply of Medical Gas Equipment is a very important part of our business. All Medical Gas Applications require the highest safety standards, specialised knowledge and a full understanding of patient respiratory requirements. GCE fully complies with the European Medical Directive 93/42/EEC and the QSR (Quality System Regulations known as the GMP standards).

Western Europe is the traditional market for a whole range of products for all different types of customers and together with the growing Eastern European market, these are GCE's main sales area. Our sales force is also active in a number of other markets including North and South America, North Africa and the Middle East, and continues to expand to other parts of the world, such as China and India. As a result, our products are designed in accordance with the requirements of all European standards as well as those of other regions where they will be used.

Supplies to the major Gas Companies account for the majority of sales however in each market various distributors, healthcare providers, hospitals and other manufacturers of medical also play a significant role in the distribution of GCE-branded and CE-marked products. GCE supply complete systems for supplying oxygen, nitrous oxide, other gases and vacuum to hospitals, ambulance service providers, emergency services and home care providers, as well as other special services using this equipment.

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PRODUCT SELECTION GUIDE

QUESTIONS TO BE ANSWERED SELECTING A REGULATOR

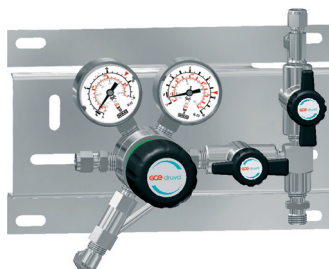
Do you need a standard regulator/valve (gas purity < 6.0) for ultra high-purity use (higher 6.0)?

Do you need a single-stage or dual-stage regulator?

Do you need a purge system?

See information on previous page.

The construction material does not need to be specified as it depends on gas type.



GCE Druva will automatically tailor its proposal to make a proposal to the chosen gas. Which outlet pressure range is required (specification in "Technical data")? Which flow rate is required (Specification on product specific flow charts, precise information for specific gases and types can be obtained from our technical department)? Do you have a 200 or a 300 bar gas supply level? Which type of inlet connection (cylinder connection) do you need, DIN or another national norm? Which kind of outlet connections do you need: tube fittings, hose nozzles etc.?

GAS PURITY VALUES

Gas type	Purity [degrees]	Purity	Max. Contamination (ppm)
Pure gas	2.5	99.5 %	5000
	3.0	99.9 %	1000
High purity gas	3.5	99.95 %	500
	4.0	99.99 %	100
	4.5	99.995 %	50
	5.0	99.999 %	10
	5.5	99.9995 %	5
	6.0	99.9999 %	1.0
Ultra pure gas	7.0	99.99999 %	0.1

SINGLE-STAGE REGULATORS

High pressure mediums enter through the inlet of the regulator to the high pressure chamber. When the hand wheel is turned clockwise, it compresses the spring and creates a force on the diaphragm, which pushes the regulator's poppet open. This releases the gas into the low-pressure chamber, exerting an opposing force on the diaphragm which then closes the passage. Equilibrium is reached, when the spring force on the diaphragm is equal to the opposing force of the gas in the low-pressure chamber.

In a single-stage regulator, delivery pressure increases as cylinder pressure falls, because there is less gas pressure exerted on the diaphragm. Thus, frequent adjustment of the control knob is required to maintain a constant delivery pressure. Therefore a two-stage regulator is recommended for applications requiring constant outlet pressure.

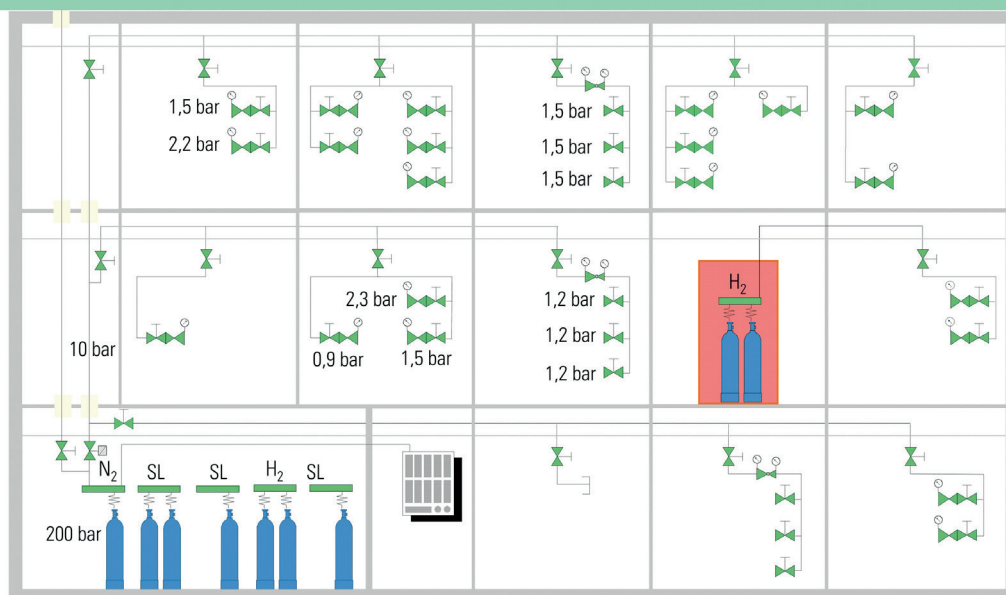
With the two stage regulator the point of use pressure stays practically constant, irrespective of the cylinder pressure which sinks progressively as the cylinder empties.

DUAL-STAGE REGULATORS

A dual-stage regulator functions like two single-stage regulators connected in line. The first stage reduces the inlet pressure to a preset intermediate pressure. By adjusting the control knob the second stage reduces the intermediate pressure to the desired delivery pressure.

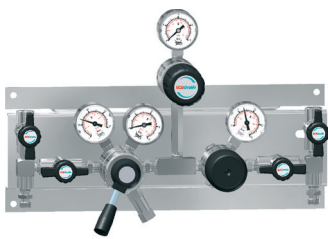
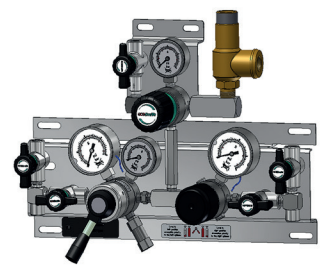
Like the single-stage regulator, outlet pressure from the first stage of the two-stage regulator rises as cylinder pressure decreases. However, the second-stage of the dual-stage regulator regulates, according to the preset level entered with the control knob, the point of use pressure as desired. Thus, delivery pressure remains constant even as the cylinder pressure lowers, eliminating the need for frequent control knob adjustment needed for a single-stage regulator.

CENTRAL GAS SUPPLY

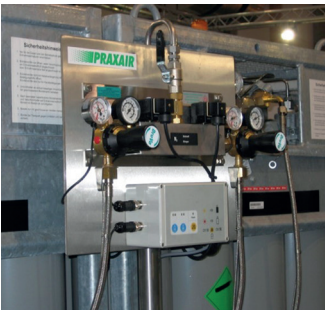


- 1) Gas panel SMD,
- 2) Gas manifold BMD,
- 3) Point/of/use regulator EMD,
- 4) Point-of-use shut-off,
- 5) Room shut-off,
- 6) Floor shut-off
- 7) Central shut-off,
- 8) Gas management,
- 9) Line regulator

COMPLETE AUTOCHANGE MANIFOLD KITS 2x1



NOW
300 BAR
RATED



The GCE Druva 2x1 manifold series is a complete CP-4 compliant manifold installation package. Flashback arrestor fitted on flammable versions as standard.

THE 2x1 PACKAGE INCLUDES:

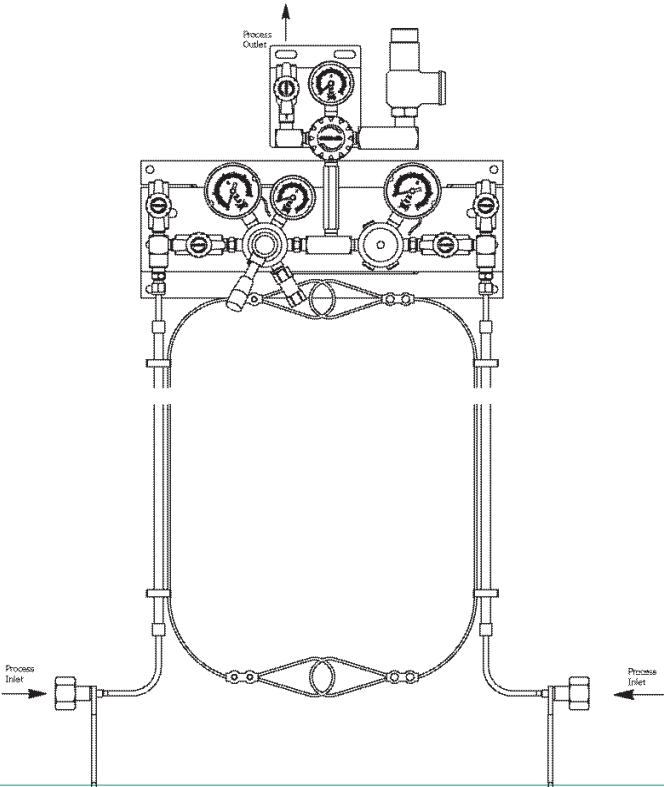
- 300 bar hoses fitted with anti whip restraints
- Contact alarm gauges - mechanical contact
- CE marked, CP-4 compliant Seetru line safety relief valve
- Gas purity 6.0 rated manifold

Art.-Nr.	Gas
S90003841	Inert (please specify type of gases)
S90003842	CO2
S90003843	O2
S90003844	Flammable (P2=2,5 bar; please specify type of gases)
S90003845	Flammable (P2=10 bar; please specify type of gases)

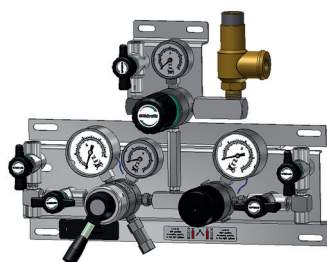
WITHOUT CONTACT ALARM GAUGES

Art.-Nr.	Gas
S90003918	Inert (please specify type of gases)
S90003919	CO2
S90003920	O2
S90003921	Flammable (P2=2,5 bar; please specify type of gases)
S90003922	Flammable (P2=10 bar; please specify type of gases)

TECHNICAL DATA	
Inlet pressure:	300 bar
Outlet pressure:	10 bar
Relief valve:	set to 11.2 bar
Designed for inert, oxygen, flammable and CO2 gases	
Stainless steel version available for toxic and corrosive gases	



COMPLETE AUTOCHANGE MANIFOLD KITS 2x2



NOW
300 BAR
RATED

The GCE Druva 2x2 manifold series is a complete CP-4 compliant manifold installation package. Flashback arrestor fitted on flammable versions as standard.

TECHNICAL SPECIFICATION:

300 bar hoses fitted with anti whip restraints
Contact alarm gauges - mechanical contact
CE marked, CP-4 compliant Seetru line safety relief valve
Gas purity 6.0 rated manifold

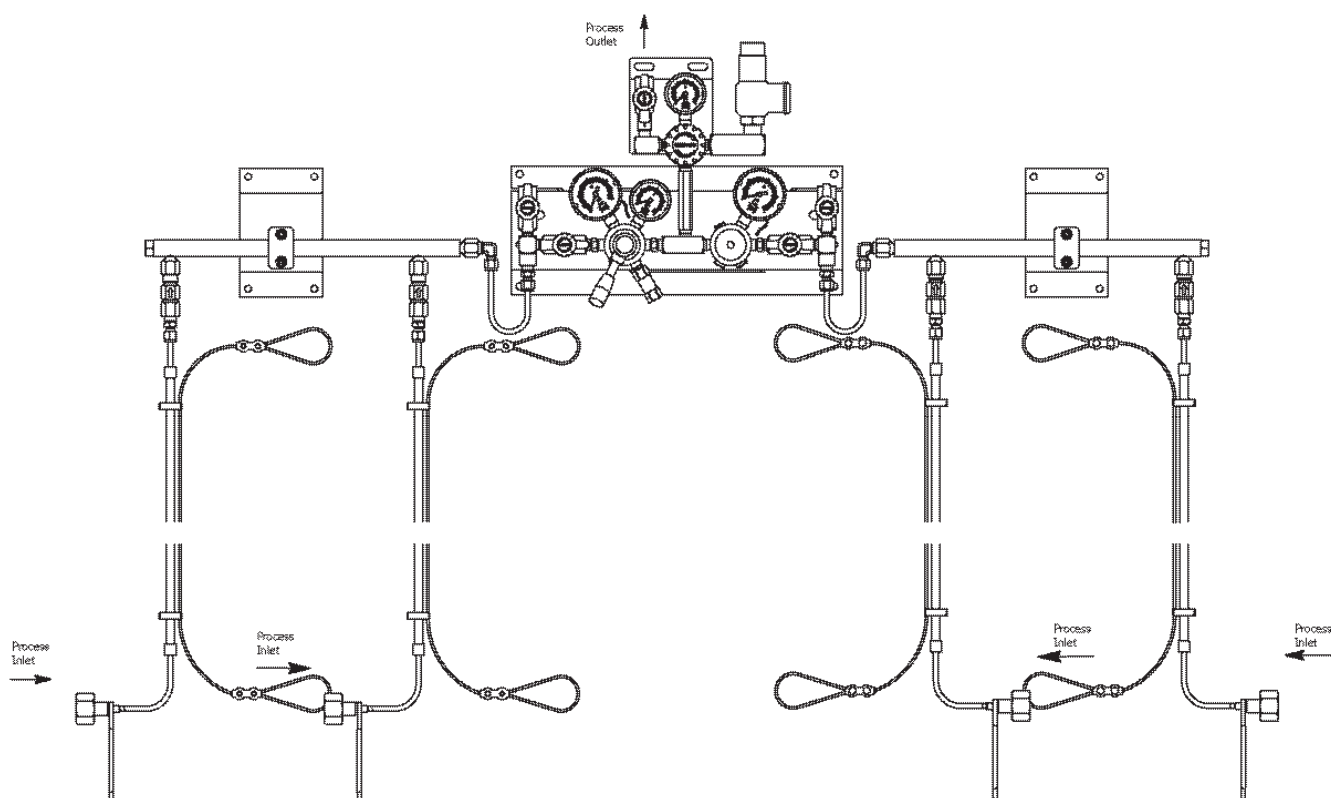
Art.-Nr.	Gas
S90003841	Inert (please specify type of gases)
S90003842	CO ₂
S90003843	O ₂
S90003844	Flammable (P2=2,5 bar; please specify type of gases)
S90003845	Flammable (P2=10 bar; please specify type of gases)

WITHOUT CONTACT ALARM GAUGES

Art.-Nr.	Gas
S90003906	Inert (please specify type of gases)
S90003913	CO ₂
S90003914	O ₂
S90003916	Flammable (P2=2,5 bar; please specify type of gases)
S90003917	Flammable (P2=10 bar; please specify type of gases)



TECHNICAL DATA	
Inlet pressure:	300 bar
Outlet pressure:	10 bar
Relief valve:	set to 11.2 bar
Designed for inert, oxygen, flammable and CO₂ gases	



LINE PRESSURE REGULATOR - GAS PURITY MAX 6.0

MB70 ACETYLENE

Basic design: inlet/outlet connection: NPT 1/4" female, outlet gauge LMD 500-01



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6900483001	LMD50001 BCE3 N14N14	BC	single stage	40	0,2 - 3
6900477006	LMD50001 SSE3 N14N14	SS	single stage	40	0,2 - 3
6900484003	LMD50001 BCE6 N14N14	BC	single stage	40	0,5 - 6
6900479001	LMD50001 SSE6 N14N14	SS	single stage	40	0,5 - 6
6900485002	LMD50001 BCE14 N14N14	BC	single stage	40	1 - 14
6901016001	LMD50001 SSE14 N14N14	SS	single stage	40	1 - 14
6900487001	LMD50001 BCF200 N14N14	BC	single stage	230	10 - 200
6900482002	LMD50001 SSF200 N14N14	SS	single stage	230	10 - 200

LINE PRESSURE REGULATOR LMD 500-03

Basic design: inlet/outlet connection: NPT 1/4" female, outlet gauge LMD 500-01



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6901028001	LMD50003 BCE3 N14N14	BC	single stage	40	0,2 - 3
6900490001	LMD50003 SSE3 N14N14	SS	single stage	40	0,2 - 3
6900502001	LMD50003 BCE6 N14N14	BC	single stage	40	0,5 - 6
6900492003	LMD50003 SSE6 N14N14	SS	single stage	40	0,5 - 6
6900503001	LMD50003 BCE14 N14N14	BC	single stage	40	1 - 14
6900495001	LMD50003 SSE14 N14N14	SS	single stage	40	1 - 14
6901023001	LMD50003 BCF3 N14N14 with PRV	BC	single stage	230	0,2 - 3
6901036001	LMD50003 SSF3 N14N14 with PRV	SS	single stage	230	0,2 - 3
6901070001	LMD50003 BCF6 N14N14 with PRV	BC	single stage	230	0,5 - 6
6901017001	LMD50003 SSF6 N14N14 with PRV	SS	single stage	230	0,5 - 6
6900970001	LMD50003 BCF14 N14N14 with PRV	BC	single stage	230	1 - 14
6900506001	LMD50003 SSF14 N14N14 with PRV	SS	single stage	230	1 - 14
6900504001	LMD50003 BCF50 N14N14 with PRV	BC	single stage	230	2,5 - 50
6900498001	LMD50003 SSF50 N14N14 with PRV	SS	single stage	230	2,5 - 50

LINE PRESSURE REGULATOR LMD 502-03

Basic design: inlet/outlet connection: NPT 1/4" female, outlet gauge LMD 500-01



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6900483001	LMD50001 BCE3 N14N14	BC	single stage	40	0,2 - 3
6900477006	LMD50003 SSE3 N14N14	SS	single stage	40	0,2 - 3
6900484003	LMD50003 BCE6 N14N14	BC	single stage	40	0,5 - 6
6900479001	LMD50003 SSE6 N14N14	SS	single stage	40	0,5 - 6
6900485002	LMD50003 BCE14 N14N14	BC	single stage	40	1 - 14
6901016001	LMD50003 SSE14 N14N14	SS	single stage	40	1 - 14
6900487001	LMD50003 BCF3 N14N14 with PRV	BC	single stage	230	10 - 200
6900482002	LMD50003 SSF3 N14N14 with PRV	SS	single stage	230	10 - 200

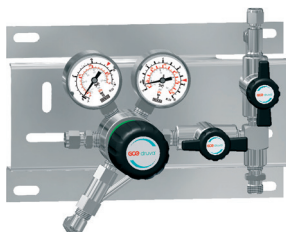
PANEL MOUNTED REGULATOR - GAS PURITY MAX 6.0

GAS SUPPLY PANEL SMD 500/502-24

Basic design: with inlet shut-off valve and purge gas valve, pressure relief valve (PRV)

inlet / outlet connection 1/4" NPT female

pigtails and hoses available – please see page 9 of this catalogueW

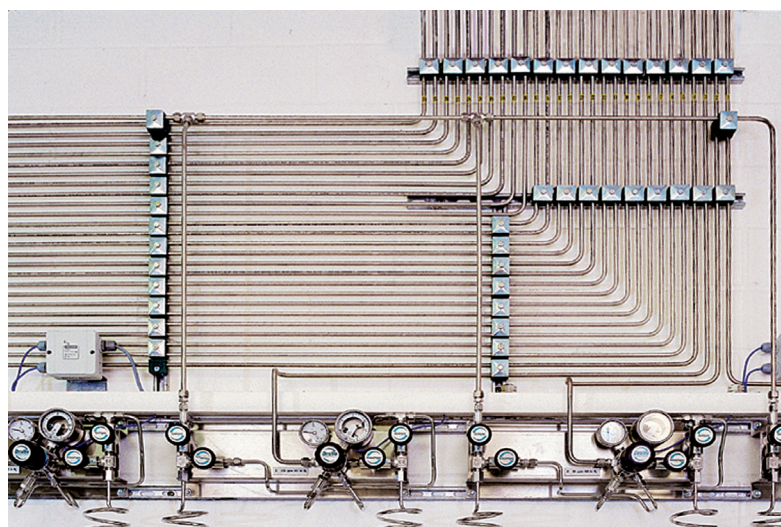


SINGLE STAGE

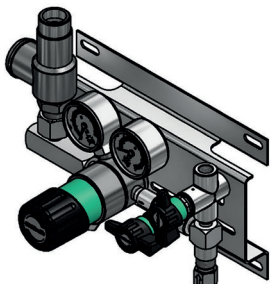
Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6901024002	SMD50024 BCF14 N14N14	BC	single stage	230	1 - 14
6900036002	SMD50024 SSF14 N14N14	SS	single stage	230	1 - 14
6900053012	SMD50024 BCF50 N14N14	BC	single stage	230	1 - 50
6900055007	SMD50024 BCF200 N14N14	SS	single stage	230	10 - 200
6901410002	SMD50024 SSF200 N14N14	BC	single stage	230	10 - 200

DOUBLE STAGE

Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6900101007	SMD50224 BCF6 N14N14	BC	double stage	230	0,5 - 6
6901211007	SMD50224 SSF6 N14N14	SS	double stage	230	0,5 - 6
6900102009	SMD50224 BCF10,5 N14N14	BC	double stage	230	1 - 10,5
6900870005	SMD50224 SSF10,5 N14N14	SS	double stage	230	1 - 10,5



SINGLE STATION MANIFOLD PACKAGE



NOW
300 BAR
RATED

SINGLE STATION MANIFOLD SMD 530-24

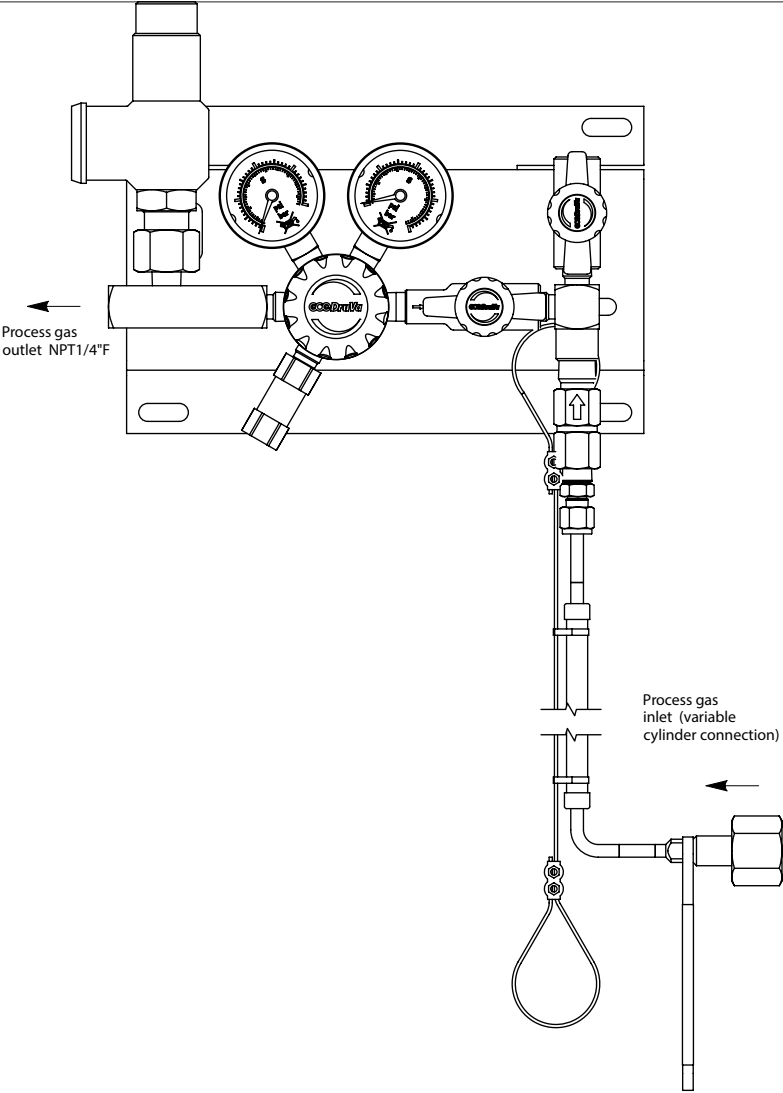
Druva Single Cylinder manifold package, fully CP-4 compliant manifold installation package.

THE SINGLE STATION MANIFOLD PACKAGE INCLUDES:

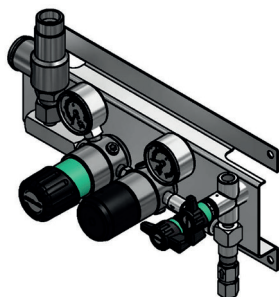
- Up to 300 bar working pressure
- 1 m long hose with anti-whip restraint
- Inlet check valve
- Inlet isolation and purge valve
- CE-marked, CP-4 compliant line safety relief valve fitted
- Mechanical reed contact alarm gages available upon request
- Designed for up to N6.0 gas quality

Art.-Nr	Type
S90003505	Oxygen, Nitrogen, Helium, Argon
S90003506	Flammable gases - Hydrogen, Methane, Propane
S90003507	Carbon Dioxide

TECHNICAL DATA	
Inlet pressure:	300 bar
Outlet pressure:	10 bar
Relief valve:	set to 11.2 bar
Designed for inert, oxygen, flammable and CO2 gases	
Stainless steel version available for toxic and corrosive gases	



SINGLE STATION MANIFOLD PACKAGE - 2 STAGE



NOW
300 BAR
RATED



SINGLE STATION MANIFOLD SMD 532-24

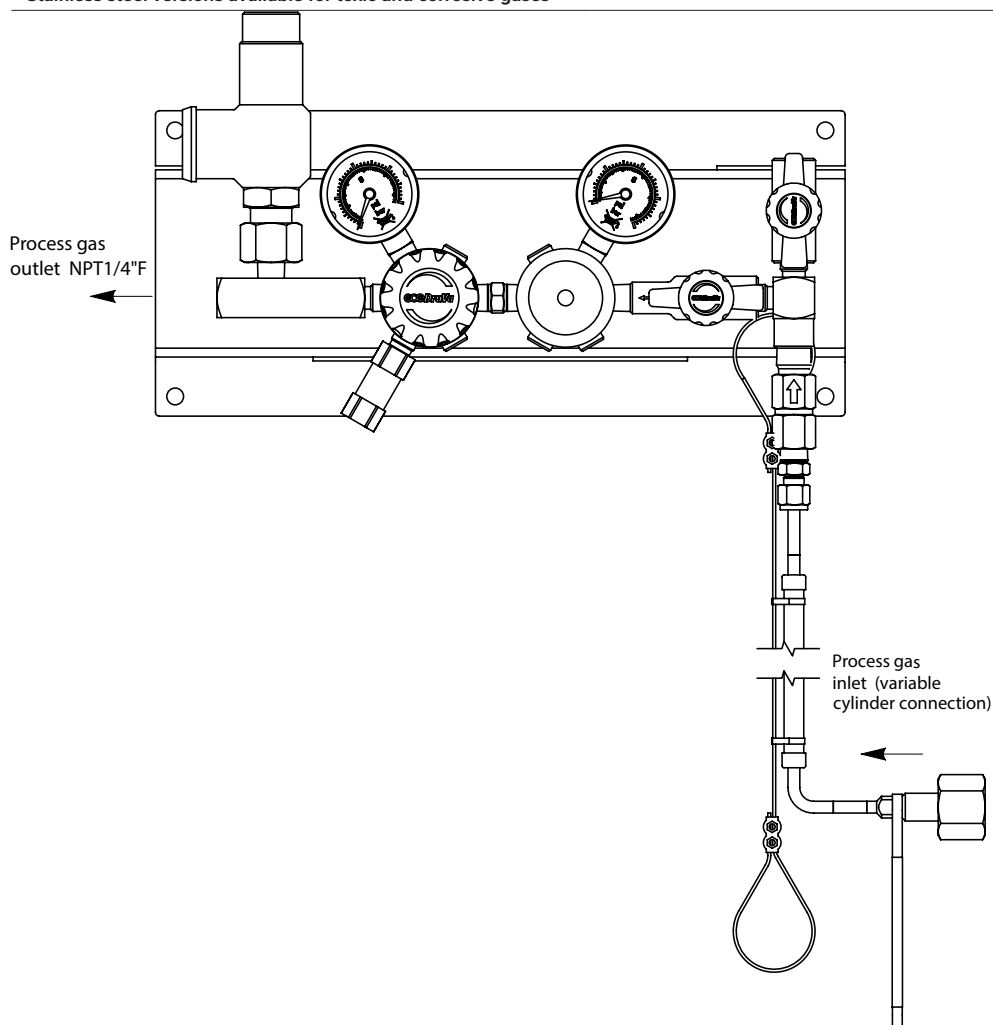
Druva Single Cylinder manifold package, fully CP-4 compliant manifold installation package

THE SINGLE STATION MANIFOLD PACKAGE INCLUDES:

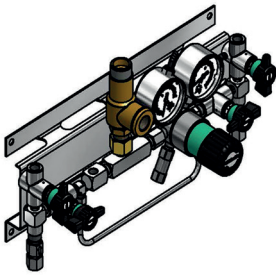
- Up to 300 bar working pressure
- 1 m long hose with anti-whip restraint
- Inlet check valve
- Inlet isolation and purge valve
- CE-marked, CP-4 compliant line safety relief valve fitted
- Mechanical reed contact alarm gages available upon request
- Designed for up to N6.0 gas quality

Art.-Nr.	Type
S90003905	Oxygen, Nitrogen, Helium, Argon
S90003908	Flammable gases - Hydrogen, Methane, Propane
S90003907	Carbon Dioxide

TECHNICAL DATA	
Inlet pressure:	300 bar
Outlet pressure:	10 bar
Relief valve:	set to 11.2 bar
Designed for inert, oxygen, flammable and CO2 gases	
Stainless steel versions available for toxic and corrosive gases	



2×1 MANUAL CHANGE-OVER MANIFOLD PACKAGE



NOW
300 BAR
RATED

2×1 MANUAL CHANGE-OVER MANIFOLD BMD 500-32

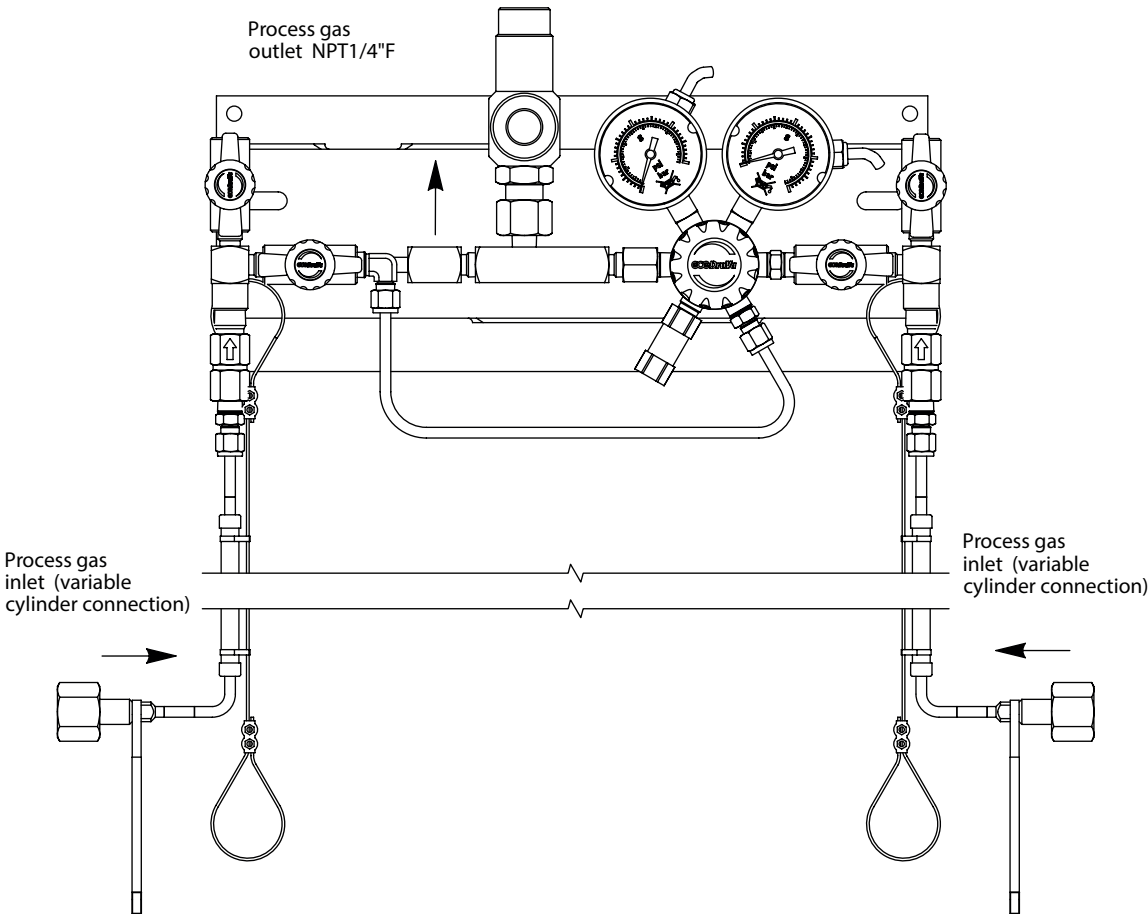
Druva 2×1 manual change-over package, fully CP-4 compliant installation package

THE 2×1 MANUAL CHANGE-OVER MANIFOLD PACKAGE INCLUDES:

- Up to 300 bar working pressure
- 1 m long hose with anti-whip restraint
- Inlet check valve
- Inlet isolation and purge valve
- CE-marked, CP-4 compliant line safety relief valve fitted
- Mechanical reed contact alarm gages available upon request
- Designed for up to N6.0 gas quality

Art.-Nr.	Type
S90003910	Oxygen, Nitrogen, Helium, Argon
S90003911	Flammable gases - Hydrogen, Methane, Propane
S90003912	Carbon Dioxide

TECHNICAL DATA	
Inlet pressure:	300 bar
Outlet pressure:	0 - 10 bar
Relief valve:	set to 11.2 bar
Designed for inert, oxygen, flammable and CO2 gases	
Stainless steel version available for toxic and corrosive gases	





PROTECTIVE CYLINDER CABINETS

Sheet steel cabinet for outdoor or indoor gas cylinder storage, for 1 – 4 50 liter cylinders.

SPECIAL FEATURES

- In accordance with TRG 280
- Corrosion proof steel sheet housing for use outdoors
- Height adjustable cylinder brackets for 10L and 50L cylinder
- Flexible armature mountings
- Doors with air vents top and bottom
- Grooved sheet metal floor
- Inspection window available as accessory

DESCRIPTION

Sheet steel cabinets are constructed as a single-walled structure with complete galvanized and plasticcoated, structured surface, offer protection from the effects of weather and unauthorised use. Ventilation in accordance with TRG is found at the bottom of the doors and in the back wall. Connection to the on-site ventilation (NW 75) is prepared. Included in delivery is mounting rails for the armatures, cylinder bracket. Available on request are: fixed or hinged inspection windows, additional shelving, documentation pouch, etc. the flexible interior fittings allow for the storage of all standard gas cylinders.

APPLICATION

For the safe housing of gas cylinders in outside or inside areas.

Pipe lead-throughs

- up to 72 predefined lead-through possibilities on the top of the cabinet
- no additional insulation of piping necessary

Ventilation

- integrated air ducts for connection (NW 75) to a technical exhaust system
- complete, uniform ventilation of cabinet interior
- pressure drop values for all models <150 Pa
- tested according to the stricter GS test principles

Interior height

- large interior height (1.858 mm)
- easy and effective mounting of the connecting pipes and gas fittings in the cabinet

Lateral cylinder retainer

- for two 10-litres gas cylinders
- optionally also in a height-adjustable version (no tools required)

Cylinder retainer

- variable installation in the cabinet
- flexible depth adjustment
- over the entire cabinet width
- including tension belts for fixing the cylinders

Locking

- cylinder lock integrated in the door handle (compatible for locking system)
- easy-moving locking mechanism

Rolling ramps

- simple rolling in and removal of the gas cylinders
- comfort version with pneumatic damper, extremely flat rolling angle, optimum slip resistance

Adjusting aids

- simple installation
- fast and effective compensation for uneven floor (max. 10 mm)



LINE PRESSURE REGULATOR - GAS PURITY MAX 6.0

Outlet points with check valve.

POINT-OF-USE REGULATOR EMD 500-06 WITH CHECK VALVE

Basic design: Fitted with check valve, with inlet shut off valve, pressure regulator, outlet pressure gauge, mounted on on 90 x 260mm plate, Inlet/outlet NPT 1/4" female.



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
S90003935	EMD50006 SSE10 N14N14 CV	SS	outlet point - with check valve	40	0-10
S90003934	EMD50006 SSE6 N14N14 CV	SS	outlet point - with check valve	40	0-6
S90003933	EMD50006 SSE1,5 N14N14 CV	SS	outlet point - with check valve	40	0-1,5
S90003932	EMD50006 BCE10,5 N14N14 CV	BC	outlet point - with check valve	40	0-10
S90003931	EMD50006 BCE6 N14N14 CV	BC	outlet point - with check valve	40	0-6
S90003930	EMD50006 BCE4 N14N14 CV	BC	outlet point - with check valve	40	0-4
S90003929	EMD50006 BCE1,5 N14N14 CV	BC	outlet point - with check valve	40	0-1,5

POINT OF USE REGULATOR EMD 400-06 WALL ASSEMBLY WITH CHECK VALVE

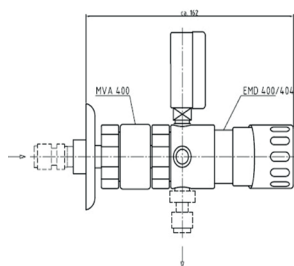
Basic design: Fitted with check valve with inlet shut off valve, pressure regulator, outlet pressure gauge, mounted on 100x100 mm plate. Inlet / outlet connection : g1/4" female - parallel thread.



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
S93001180	EMD40006 SSE10 G14G14 CV	SS	outlet point - with check valve	40	0-10
S93001106	EMD40006 SSE6 G14G14 CV	SS	outlet point - with check valve	40	0-6
S93001179	EMD40006 SSE1,5 G14G14 CV	SS	outlet point - with check valve	40	0-1,5
S93001178	EMD40006 BCE10 G14G14 CV	BC	outlet point - with check valve	40	0-10
S93001177	EMD40006 BCE4 G14G14 CV	BC	outlet point - with check valve	40	0-6
S93001176	EMD40006 BCE1,5 G14G14 CV	BC	outlet point - with check valve	40	0-1,5

LINE PRESSURE REGULATOR EMD 400-42

Basic design: inlet/outlet connection: NPT 1/4" female, outlet gauge EMD400-42. Inlet connection: 1/4" NPT female. Outlet : G1/4" female.



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6901029006	EMD40042 BCE1,5 N14G14	BC	single stage	40	0-1,5
6900243002	EMD40042 BCE4 N14G14	BC	single stage	40	0-4
6900243002	EMD40042 BCE6 N14G14	BC	single stage	40	0-6
6900244001	EMD40042 BCE10 N14G14	BC	single stage	40	0-10
6901312002	EMD40042 SSE1,5 N14G14	SS	single stage	40	0-1,5
S93001025	EMD40042 SSE4 N14G14	SS	single stage	40	0-4
6901196001	EMD40042 SSE6 N14G14	SS	single stage	40	0-6
6900241002	EMD40042 SSE10 N14G14	SS	single stage	40	0-10



LINE PRESSURE REGULATOR - GAS PURITY MAX 6.0

All of our outlet points comply with BCGA CP4 and are available with a Non-Return Valve

POINT-OF-USE REGULATOR EMD 500-06

Basic design: Fitted with check valve, with inlet shut off valve, pressure regulator, outlet pressure gauge, mounted on on 90 x 260mm plate, Inlet/outlet NPT 1/4" female.



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6900257002	EMD50006 BCE1,5 N14N14	BC	single stage	40	0,1 - 1,5
6900253001	EMD50006 SSE1,5 N14N14	SS	single stage	40	0,1 - 1,5
6900258003	EMD50006 BCE4 N14N14	BC	single stage	40	0,2 - 4
6900254002	EMD50006 SSE4 N14N14	SS	single stage	40	0,2 - 4
6900258002	EMD50006 BCE6 N14N14	BC	single stage	40	0,2 - 6
6900254003	EMD50006 SSE6 N14N14	SS	single stage	40	0,2 - 6
6900259003	EMD50006 BCE10,5 N14N14	BC	single stage	40	0,5 - 10,5
6900482002	LMD50001 SSF200 N14N14	SS	single stage	230	10 - 200

POINT OF USE REGULATOR EMD 400-06 WALL ASSEMBLY

Basic design: Fitted with check valve with inlet shut off valve, pressure regulator, outlet pressure gauge, mounted on 100x100 mm plate, Inlet / outlet connection : g1/4" female - parallel thread



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6900232001	EMD40006 BCE1,5 G14G14	BC	single stage	40	0,1 - 1,5
6900876001	EMD50006 SSE1,5 N14N14	SS	single stage	40	0,1 - 1,5
6900233001	EMD50006 BCE4 N14N14	BC	single stage	40	0,2 - 4
6900460002	EMD50006 SSE4 N14N14	SS	single stage	40	0,2 - 4
6900456009	EMD50006 BCE6 N14N14	BC	single stage	40	0,2 - 6
6900231002	EMD50006 SSE6 N14N14	SS	single stage	40	0,2 - 6

POINT-OF-USE REGULATOR EMD 400-41 BENCH VERSION

Basic design: With inlet shut-off valve, pressure regulator, outlet gauge, mounted on panel 100x100 mm, Inlet / outlet connection G 1/4" female



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6900237001	EMD40041 BCE1 G14G14	BC	single stage	40	0,1-1,5
6900239001	EMD40041 BCE6 G14G14	BC	single stage	40	0,2-6
6900240001	EMD40041 BCE10,5 G14G14	BC	single stage	40	0,5- 10,5

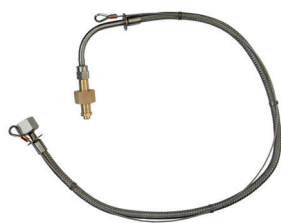
POINT-OF-USE REGULATOR EMD 400-01

Basic design: pressure regulator, outlet gauge, Inlet G3/8", Outlet G1/4"
Inlet / outlet connection G 1/4" female



Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6901342001	EMD40001 BCE1,5 G38FG14F	BC	single stage	40	0,1-1,5
6901343001	EMD40001 BCE4 G38FG14F	BC	single stage	40	0,2-4
6901375001	EMD40001 BCE4 G38FG14F	SS	single stage	40	0,2-4
6901376001	EMD40001 BCE6 G38FG14F	BC	single stage	40	0,2-6
6901375001	EMD40001 BCE6 G38FG14F	SS	single stage	40	0,2-6
6901264004	EMD40001 BCE10,5 G38FG14F	BC	single stage	40	0,5-10,5
6901480001	EMD40001 BCE10,5 G38FG14F	SS	single stage	40	0,5-10,5

HOSES & PIGTAILS



FLEXIBLES HOSES WITH CYLINDER CONNECTION ACCORDING BS-341 230 BAR

Basic design: with hex nut, inlet see below, outlet NPT 1/4" male AND ANTI WHIP RESTRAINTS

Art.-Nr.	Type	Material	Design
H27415201	BS3	SS/PCTFE	1 m length; with safety hose
H27343201	BS4	SS/PCTFE	1 m length; with safety hose
H27508764	BS8	SS/PCTFE	1 m length; with safety hose
H27515064	BS14	SS/PCTFE	1 m length; with safety hose
H27515164	BS15	SS/PCTFE	1 m length; with safety hose



FULLY FLEXIBLE PIGTAILS

Basic design: with hex nut, spiral tube, inlet see below, outlet NPT 1/4" male

Art.-Nr.	Type	Material	Design
H27448401	BS3	Stainless Steel	Fully flexible pigtail, 230 bar rated
H27999164	BS4	Stainless Steel	Fully flexible pigtail, 230 bar rated
H27450101	BS8	Stainless Steel	Fully flexible pigtail, 230 bar rated
NPP3488000195	BS14	Stainless Steel	Fully flexible pigtail, 230 bar rated
NPP3488000197	BS15	Stainless Steel	Fully flexible pigtail, 230 bar rated



FLASH BACH ARRESTORS

Art.-Nr.	Type	Material	Design	A*	H	M	O	P
L000337	FS400	G 1/4"m x G 1/4"f	-	-	10	12	-	8
L000454	FS400	G 1/4"m x G 1/4"f	1.5	1.5	3.5	-	15	-
L000110	FS500	NPT 1/4"f x NPT 1/4"f	1.5	1.5	3.5	5	15	5
B000096	FS500	NPT 1/4"m x NPT 1/4"f	1.5	1.5	3.5	-	15	-
B000492	FS500	NPT 1/4"f x NPT 1/4"f	1.5	1.5	3.5	5	15	5
B000614	FS500	NPT 1/4"m x NPT 1/4"f	-	-	9	12	-	-
B000643	FS500	NPT 1/4"f x NPT 1/4"f	1.5	1.5	4	5	-	-
B000614	FS500	NPT 1/4"m x NPT 1/4"f	1.5	1.5	10	12	-	12

*) Acetylene C2H2 (A); Hydrogen H2 (H); Methane CH4 (M); Oxygen O2 (O); Propane C3H8 (P)

SOFTWARE BASED ON GASMO DAS32 ADVERT



DGM-SK series

DAS32 GAS MONITORING SYSTEM

Our new mid-segment gas monitoring system DAS 32 is ready for sales! DAS32 Gas Monitoring System. This modern and affordable system fills the gap between the well known DGM-SK alarm boxes (2, 4 or 10 channels, audio-visual alarm only) and the mighty GasCOM system (mainly used for automotive calibration gas systems)

DAS 32 converts 4-20mA - signals from pressure transducers (not from contact gauges) and graphically displays the data. Settings (alarm levels, gas types etc) and retrieving desired data is done via the touch screen.

The basic version includes the control unit with 32 channels (32 SMD's or 16 BMD's). Several options are shown below. Not included are pressure sensors (pressure transmitters Ex/non-EX) electrical wiring and installation on site.

For use with flammable gases an additional Zener-barriere (galvanic separation between sensors (in the gas zone) and DAS32 (outside the Ex-hazardous area) is required.

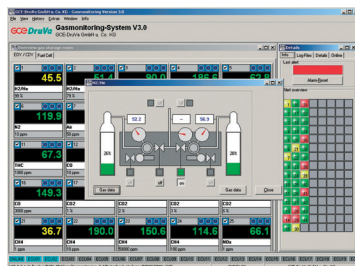
FEATURES

- Touchscreen visualization
- Remote controlling of gas storages
- Smartphone capable (option)
- Colored alarm graphics
- Visualized gas consumption display
- Pressure monitoring of 32 input channels

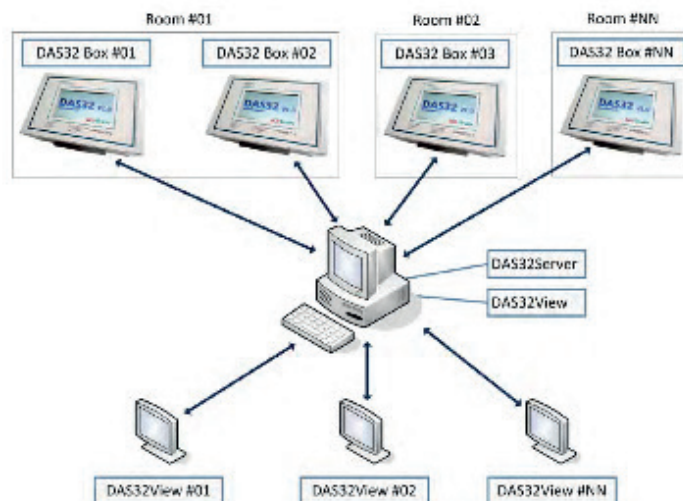
OPTIONS

- Basic unit
- GSM module (messages by email or SMS)
- Visualization and archiving on PC's
- Smartphone (Apple / Android) access

ATTRICE NUMBERS ON REQUEST FROM PRODUCT MANAGEMENT



GasCOM



DGS PROJECT HOUSE



BCI3 cabinet with automated gas panel



Surface mount gas sticks



DGS

SOLUTION FOR TOXIC AND CORROSIVE GASES

For more than 25 years GCE druva together with AP Tech, a Napa (CA) based company are renowned for providing high quality components and systems handling dangerous and ultra-pure gas systems used in global semiconductor industry.

Designed and manufactured in the USA and Germany, GCE druva offers systems when gas properties and process requirements become critical. Experience in the international electronics industry and related research institutions ensure know-how and state-of-the-art technology for your application.

Standard solutions or custom-engineered panels and cabinets guarantee for your safety when dealing with critical chemicals or when supplying highly sensitive processes.

DRUVA DGS3

Triple purge block, monitored rupture disc, positive shut-off regulator

DRUVA DGS3 VGM

Triple purge block, monitored rupture disc, positive shut-off regulator, vacuum generator



DRUVA DGS2 VGM

Triple purge block, rupture disc, positive shut-off regulator, vacuum generator

ACCESSORIES

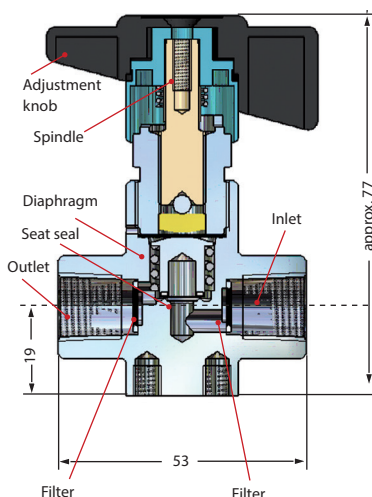


MVA500 DIAPHRAGM ISOLATION VALVE

The diaphragm valve MVA 500 is characterized through its outstanding functional safety and high leaktightness. The open/closed position on the valve is achieved through a 90°-turn of the handle (with a click into the end position).

Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6901093001	Shut off valve	Brass chrome	Line or panel mount	300	300
6901140002	Shut off valve	Stainless Steel	Line or panel mount	300	300

CROSS SECTION

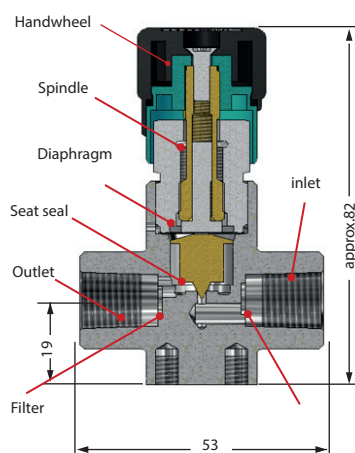


FINE ADJUSTMENT VALVE - MVR500

The regulating valve MVR 500 has a very good regulating characteristic and is very finely adjustable both by greater as also by lesser flow rate values.

Art.-Nr.	Type	Material	Design	Inlet (bar)	Outlet (bar)
6901429001	Needle valve	Brass chrome	Line or panel mount	40	40
6901446001	Needle valve	Stainless Steel	Line or panel mount	40	40

CROSS SECTION



Art.-Nr.	Type	Design
H03110301	FH	Profiled stainless steel sheet with belt
H03050220	Belt	Replacement belt for cylinder holder

GENERAL TERMS AND CONDITIONS

1. GENERAL

These conditions shall govern any contract made by us for or in connection with the supply or sale by us in the United Kingdom of machinery, equipment and welding consumables, herein called 'the goods'. In default of our written Agreement expressly overriding these conditions or one or more of them.

a) No other terms or conditions howsoever arising whether express or implied, being inconsistent with these conditions, whether contained in any order form or otherwise, shall govern or affect any such contract whatsoever by us including any collateral contract and these conditions shall prevail.

b) Any performance or partial performance by us of any order placed with us shall be carried out on these terms and no others.

c) no representation purporting to be made by us or on our behalf in respect of or in connection with the goods and without prejudice to the generality of the foregoing, whether as to the description, nature, condition, conformity with sample or quality of the goods or as to their fitness for any purpose whatsoever, shall bind us or become a term of any contract and we shall be under no liability to you in respect thereof. You may rely solely upon your own skill and judgement unless you wish to rely upon any representation by us in which event you must make an express agreement in writing with us in that respect.

d) We accept no responsibility or liability otherwise than may be expressly provided by these conditions.

2. PRICE

a) The price payable will be that agreed prior to despatch in the form of our valid current quotation or current list price, less any formally agreed discount. Copies of our current Price List are available on request. We reserve the right to change prices at any time, but agree to give 30 days notice in writing of our intention prior to implementation. Any fixed price contracts will be individually agreed and confirmed in writing.

b) Carnage of goods below the value specified in our separate term „Small Order Charge“ may at our discretion be charged by us and constitute an increase in the contract price.

3. LIMITS OF CONTRACT

Any offer by us includes only such goods and services as are expressly specified in writing and we shall be under no liability whatsoever to supply any other goods or services whatsoever.

4. DOCUMENTS

In the interests of continuous product improvement, we reserve the right to change the design or specification of any of our goods without prior notice. Any documents containing drawings, specifications, particulars of weight, dimensions or illustrations etc. shall not form or represent any part of any contract unless expressly agreed in writing.

5. TESTS

I) MACHINERY AND EQUIPMENT

a) Type tests are carried out to ensure that in any test conditions prescribed by the authority administering any relevant National or International Standard quoted by us, the performance criteria of the authority are met.

b) In the case of machinery and equipment being constructed or modified to your requirements, tests will be carried out to ensure that the machinery and equipment complies with our obligations under clause 6(ii)(a).

II) WELDING CONSUMABLES GOODS MANUFACTURED BY US are where practicable, subjected to a system of sample testing at our works.

III) MACHINERY, EQUIPMENT AND WELDING CONSUMABLES. If tests other than those specified or tests in the presence of your representative are required, a reasonable charge will be made. In the event of any delay on your part in attending such tests or in carrying out any inspection required by you. The test will proceed after seven days notice of our readiness and our results will be deemed to be accurate, whether or not you have attended.

6. PERFORMANCE

I) MACHINERY AND EQUIPMENT where machinery and equipment is constructed or modified to your requirements, our liability shall only be to carry out such construction or modification to meet those requirements based strictly on the measurements, assembly tolerances and details of components and materials supplied by you, or as amended by agreement, and no conditions or warranties are given that the machinery or equipment as constructed or modified will meet any other requirements whatsoever, including compliance with any legal requirements.

II) MACHINERY, EQUIPMENT AND WELDING CONSUMABLES

a) All technical data, specifications and performance figures are given by us based on the National or International Standard where shown, or otherwise on the detail of the item currently in production on our own operating experience, and on the tests we or our supplier have carried out in normal test conditions. We accept no responsibility for and you are solely responsible for assessing if goods, whether alone or in combination, are suitable and sufficient for your purposes, and whether your operating conditions will enable any goods to reproduce their test performance.

b) All conditions and/or warranties which might be implied under Section 13, 14 and/or 15 the Sale of Goods Act 1979, as amended or by any other Statute amending or replacing the same, are hereby expressly excluded.

7. DESPATCH

The time given for despatch is to date from receipt by us, both of a written order to proceed upon these terms and of all necessary information to enable us to put work in hand. Unless the date of despatch has been guaranteed by us in writing and you have suffered loss as a result of delay in despatch and there is a written agreement whereby we are liable for liquidated damages, all liability of our part for failure to achieve despatch within the time given is hereby expressly excluded in all cases, whether a time for despatch has been guaranteed or not. Should despatch on any work or service to be carried out by us be hindered or delayed by you, your servants or agents, whether directly or indirectly, any loss or damage caused to us shall be reimbursed by you and shall constitute an increase in the contract price.

8. FORCE MAJEURE ETC.

Our performance of any term of any contract and in particular but without prejudice to the generality of the foregoing, of any guarantee of any delivery, is open to variation by agreement and in default of agreement any contract is subject to cancellation by us in the event of act of God, war, civil commotion, strike, lock-out. Government order or regulation, national or local emergency, fire, flood, drought, tempest, fog, accident, shortage or non-supply of materials or labour or transport and without prejudice to the generality of the foregoing in the event of any other matter beyond our control, which causes major disruption of or which prevents our performance, such disruption or prevention to be within our sole and unchallengeable judgement.

9. DELIVERY

a) We shall be entitled to deliver and invoice all and any goods by instalments and any such goods shall be deemed to be the subject of a severed and separate contract.

b) Unless otherwise agreed in writing, we shall have the right to choose the mode of delivery which will normally be the most economical means of transport. If you require delivery by any special or different form of transport, any additional cost shall be payable by you, on invoice.

10. TERMS OF PAYMENT

a) In respect of all sums payable to us, time of payment shall be of the essence and unless other terms are expressly agreed in writing, our terms of payment are nett cash payment in full within one month following the month of invoice. No discount, set-off or allowance may be made unless expressly agreed in writing by us. Where goods are supplied in instalments or at different times, each may be invoiced separately whether or not the proportionate price thereof has been agreed.

b) If you fail to comply with our terms of payment, without prejudice to our other rights we reserve the right to discontinue forthwith the provision to you of any further goods or services whatsoever under any agreements then existing between us without any liability whatsoever on our part and to treat or defer treating any or all agreements as repudiated by you. Upon discontinuance and before acceptance of repudiation, we shall be entitled to make a charge payable forthwith for that part of the cost of any contract already incurred by us together which would have been obtained, less the scrap value of any item retained.

c) Further or alternatively we shall be entitled at our sole discretion to make a surcharge upon all sums remaining unpaid after the due date at a rate not exceeding 5 per cent per annum above Lloyds Bank Base Lending Rate calculable from day to day with monthly rests.

11. RETENTION OF TITLE AND TRANSFER OF RISK

a) Goods supplied by us shall be at your risk immediately on delivery to you or into custody on your behalf and you should be insured accordingly.

b) Property in goods supplied hereunder will pass to you when: i) the goods the subject of this contract; and ii) all other goods the subject of any other contract between us and you which at the time of payment of the full price of the goods sold under this contract, have been delivered to you but not paid for in full, have been paid for in full.

c) Until full payment has been received by us, you shall hold the goods in fiduciary capacity for us in a manner which enables them to be identified as our goods and you shall immediately return the goods to us should our authorised representative so request. All the normal incidents associated with a fiduciary relationship shall apply.

d) Your right to possession of the goods shall cease if you do anything or fail to do anything which would entitle a Receiver, Liquidator or Administrator to be appointed in respect of your trustees to take possession of any assets or would entitle any person to present a petition for winding-up.

e) You grant us an irrevocable license to enter at any time any vehicles or premises owned or occupied by you or in your possession for the purpose of repossessing and removing any such goods.

f) You must ensure that if the goods are or become affixed to any land or building they shall be capable of being removed without material injury to such land or building and to take all necessary steps to prevent title to the goods from passing to the landlord of such land or building. You shall warrant to repair and make good any damage caused by the affixation of the goods to or their removal from any land or building and to indemnify us against all loss damage or liability we may incur or sustain as a result of such affixation or removal.

g) Notwithstanding paragraph c) hereof, you shall be permitted to sell the goods to third parties in the normal course of business. In this respect you shall act in the capacity of a Commission Agent and the proceeds of any such sale shall be held in trust for us in a manner which enables proceeds to be identified as such. We as Principal shall remunerate you as Commission Agent a commission depending upon the surplus which the Commission Agent can obtain over and above the sum, stipulated under the original contract of supply, which will satisfy the Principal.

h) If our goods are admixed with goods the property of any person other than you, the product thereof shall be deemed to be owned in common with that other person.

i) You are licensed by us to process the said goods but in so doing confirm a bailment for processing relationship with us. The new product or products or any chattel created shall be separately stored and marked so as to be identifiable as our property as bailor.

j) If any of the material supplied is incorporated in or used as material for other goods before payment, the property in the whole of such goods shall be and remain with us until such payment has been made. Any sale of such goods shall take place upon commission agency terms. We as Principal shall remunerate you as Commission Agent a commission depending upon the surplus which the Commission Agent can obtain over and above the price which will satisfy the Principal.

12. CANCELLATION OF ORDERS

The Company reserves the right not to accept cancellation of orders. Where cancellation is accepted the Company will charge the customer a 30% handling charge of the net order value subject to a minimum handling charge of £20 per order.

Under no circumstances will cancellations be accepted for items specifically manufactured or ordered by the customer.

13. RETURN OF GOODS

The Company reserves the right not to accept the return of goods. Where return is accepted this can only be as a result of our own internal complaint procedure and must be confirmed in writing prior to acceptance of return of goods.

On receipt of the returned goods a credit note will be raised for the net order value less a 30% handling charge subject to a minimum handling charge of £20 per credit note.

Under no circumstances will return of goods be accepted for items specifically manufactured for the customer.

14. DELAY AND STORAGE

If we are not given forwarding instructions sufficient to enable us to despatch the goods within 14 days after the date of notification that they are ready for despatch you shall take delivery at the premises from which the goods are available for despatch or arrange storage. If you do not do so, delivery shall be deemed to have occurred and we shall be entitled to arrange and charge for storage wherever we choose as your agents and at your risk and all charges, storage, insurance and demurrage shall be payable by you on invoice. All payments shall be due as if delivery has been made and until all payments due from you to us have been made we shall have a general lien on the goods.

15. LOSS OR DAMAGE IN TRANSIT

When the price quoted includes delivery we will repair or replace the goods lost or damaged in transit free of charge provided that both the carriers and ourselves receive notification of such loss or damage within 3 working days of the delivery of the goods or the receipt of the invoice charging for those goods, followed by written confirmation within 7 days of such an event but all other liability on our part is hereby expressly excluded.

16. CLAIMS FOR SHORTAGES ETC

In the event of incomplete delivery arising otherwise than through loss or damage in transit, we shall be under no liability whatsoever unless we receive notification of all relevant details within 3 days, followed by confirmation in writing within 7 days of delivery and in no circumstances will we be liable for any indirect or consequential losses.

17. OUR LIABILITY

a) Subject to Clause 19 in the case of goods not of our manufacture, whether they constitute or form part of goods supplied by us, all liability whatsoever on our part, save liability for death or personal injury resulting from our negligence, is hereby expressly excluded and without prejudice to the generality of the foregoing, all such liability for loss and damage howsoever arising whether caused directly or consequentially is hereby excluded, but we will use our best endeavours to ensure that any benefit available to us in respect of goods supplied to us is made available to you.

b) In the case of goods of our own manufacture, we will make good, by repair or, at our option, by the supply of replacement goods, defects which after proper use appear in the goods within a period after delivery or deemed delivery which arise solely from faulty design, materials or workmanship on our part, provided always that defective goods or parts of goods are promptly returned by you at your expense to our works unless otherwise agreed in writing. Repaired or replacement parts will be delivered by us in accordance with Clause 9(a) and (b) where by agreement with you we cause one of our servants or agents to carry out work of repair or replacement at your premises, we shall have the right to charge for the whole or any part of the cost and overheads involved in such additional services, which shall be payable on invoice.

c) We shall not be liable, either in part or in full, for any claim whatsoever for failure of products or fabrications to meet specifications or performance criteria of any form or type. It is expressly the responsibility of the buyer to determine that use of the products supplied by us are fit for the purpose to which you put them.

d) We shall not be liable in any manner whatsoever to the buyer for any loss of profit, market or contract or for any consequential loss sustained or alleged to be sustained by the buyer.

e) We shall not be liable for the cost of removal and/or replacement of weld material proven or suspected to be unsuitable for the purpose to which it was put by the buyer or its customer whether or not this is due or believed to be due to failure of the Company's products to meet specifications or performance criteria claimed by the Company.

f) In no case whatsoever shall the liability of the Company exceed the price of the Goods sold.

18. PATENTS

a) We will indemnify you against any claim for infringement of Letters Patent, registered design, trade mark or copyright obtaining at the date of delivery or deemed delivery caused by the use of any goods or documents supplied by us to you and against all costs and damages which you may incur in any action for such infringement providing that this indemnity shall not apply to any infringement resulting from a design, requirement, specification or instruction given by you or on your behalf or from use in a manner or for a purpose other than one expressly made known to us at the time of agreement or from use in a foreign country or from use in combination or association with any other goods not supplied by us, provided further that this indemnity is conditional upon prompt notice being given to us by you in writing of any allegation whatsoever of an infringement and also that we may conduct any dealings, negotiation or litigation arising therefrom in such manner as we may deem appropriate whether in your name or in our own.

b) Where goods are supplied to meet your design, requirement, specification or instruction, and the same or any of them because any infringement as aforesaid you will indemnify us against all claims whatsoever made against us and the costs thereof provided we give you prompt notice of any allegation of infringement.

19. LIABILITY FOR ACCIDENTS AND DAMAGE

If our servants or agents are on site for the fulfilment of any agreement, not withstanding the provisions of Clause 17, we will at our option effect repairs or indemnify you against damage or injury directly caused to your servants or agents or to your property by our servants or agents negligence while working on site, but not otherwise, provided that:

a) Our total liability hereunder for damage to property, whether involving a breach of contract or statutory duty or not, shall not exceed £100,000 or the price of the goods or services, whichever is greater, and

b) We shall not be liable to you for any loss of profit or loss of contracts or for any indirect or consequential losses whatsoever and howsoever arising, and

c) Save as provided in Clause 17 we shall not be liable for any damage or injury occurring after our servants or agents have left the site.

20. TIME OR INDULGENCE

Our rights shall not be prejudiced, waived or affected by any time, forbearance or indulgence extended by us, our servants or agents to you, your servants or agents.

21. TERMINATION RIGHTS

a) Without prejudice to our other rights and remedies we shall be entitled to terminate any agreement with you forthwith on the happening of any of the following events:

i) Your failure to pay any sums due to us on the due date in respect of any agreement.

ii) Your breach of any condition of any agreement with us.

iii) If you have a Receiver or a Receiver and Manager appointed, or if you go into any form of liquidation, or enter into a composition with your creditors or commit an act of bankruptcy or are the subject of distress or if execution is levied against you.

iv) You cease to be able to pay your debts as and when they fall due.

b) In the event of termination, without prejudice to our other rights and remedies we shall be entitled:

i) to enter upon premises in your possession occupation or control or to which you have any right of access and to repossess any goods beneficially owned by us.

ii) To be paid all sums then due to us by you in respect of all goods and services whatsoever provided by us to you.

iii) To retain all goods still in our possession or stored on your behalf and to dispose of any interest or title therein.

iv) to be paid forthwith on invoice the loss of profit and actual cost of work service and materials of partially completed goods giving credit for such value if any as they may have for us or for the net proceeds of their disposition and to be paid forthwith on invoice the contract price due in respect of completed goods whether delivered or not, less whichever shall be the lesser of their proceeds of sale or the value of their materials.

22. LEGAL CONSTRUCTION

This agreement shall be governed by and construed in accordance with English Law and each party to submit to the exclusive jurisdiction of the English courts as regards any claim or matter arising under the agreement.

23. TERMS AND CONDITIONS OF PURCHASE

For details on GCE (Gas Control Systems) Ltd conditions of purchase, please obtain document ref. T&CPRv1/1/96.