CEGA SYSTEMS
BY GREGGERSEN

PRODUCT INFORMATION
VENTUS

there is no substitute

GREGGERSEN

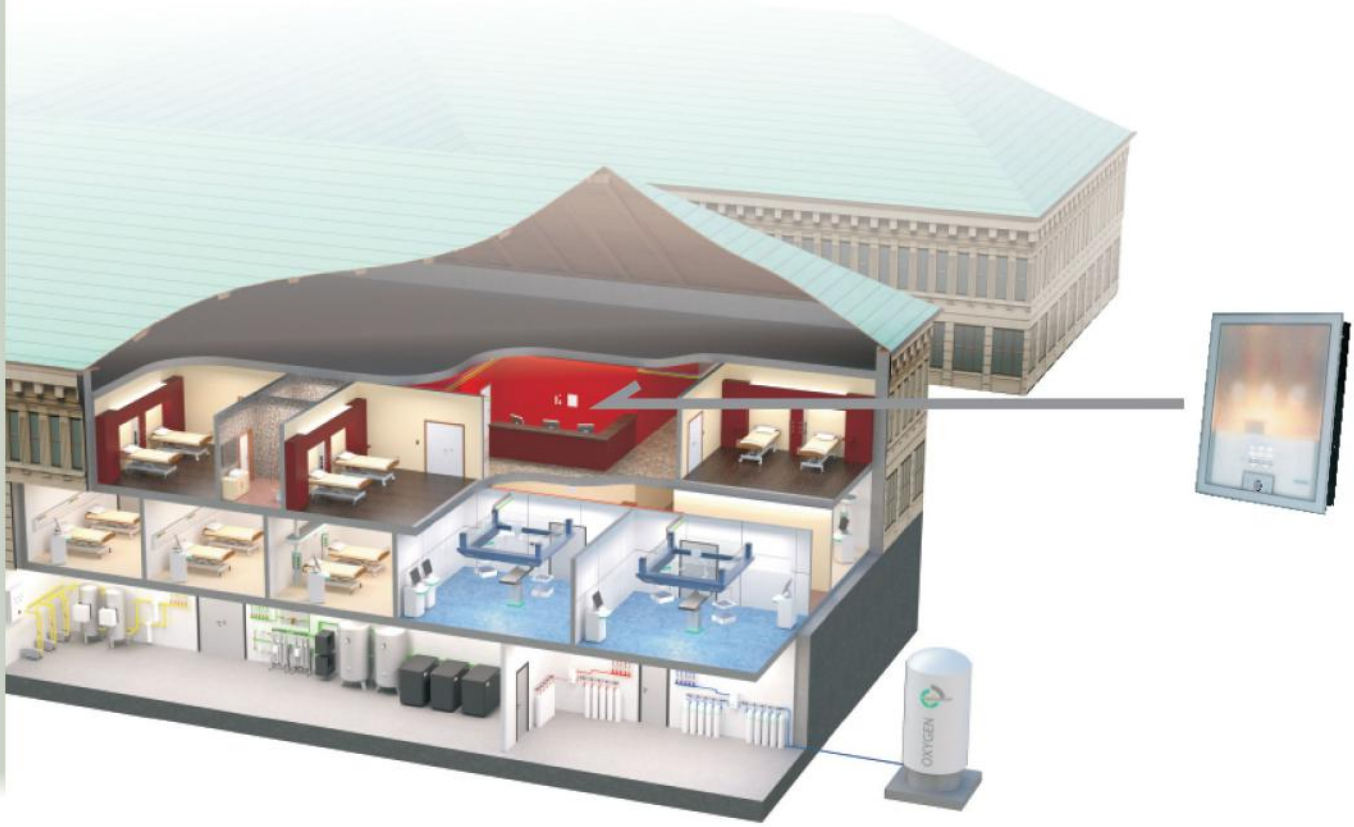
Ventus Shut-off Valve System

IN CONFORMITY WITH DIN EN ISO 7396-1

GENERAL INFORMATION

According to DIN EN ISO 7396-1, zone shut-off valves must be available in front of each functional area (operating room, intensive care nursing, normal wards, ...). The zone shut-off valves must be located in boxes with solid covers or doors. In addition to the shut-off valves, such a box must also contain a physical separation line and an emergency intake point. The door must be locked in its closed state, but must be accessible quickly in an emergency (emergency opening). The Ventus shut-off valve system fullfills all of these requirements.

Furthermore, emergency operational alarms are integrated in the Ventus system. Pressure sensors continuously monitor the network pressure. The electronics permanently monitor the measured value and compare it with the alarm limits. If the value exceeds or falls below the pressure limits there is a visual and acoustic signal (clinical emergency alarm). There are various options for the electronics such as digital display, flow measurement, network integration or logbook storage of all alarms and actions.



Ventus Basic

1 TO 6 VALVES

USE

The Ventus shut-off valve system facilitates the targeted exclusion of individual wards or functional areas from the central gas supply system. The integrated electronics continuously monitor the pressure in the piping and visually and acoustically trigger the clinical emergency alarm. Additionally, the Ventus system has an intake point that is specific for the type of gas and is protected against unauthorized opening by means of an electronically monitored door with emergency access.

Installation is suitable for flush mounting, assembly in dry walls or surface mounting. The back of the box is made of zinc-coated sheet steel.

Basic version: Door made of sheet steel, powder-coated (RAL 9016), opening > 90° via a lateral hinge.

TECHNICAL DATA

Dimensions of flush mount frame 1-3 valves:	W 370 x H 450 x D 72 mm
Dimensions of flush mount frame 4-6 valves:	W 655 x H 450 x D 72 mm
Dimensions front 1-3 valves:	W 400 x H 480 mm
Dimensions front 4-6 valves:	W 685 x H 480 mm
Connection:	15 mm CU connection pipe
Nominal pressure of compressed gases:	max. 1000 kPa
Nominal pressure vacuum:	max. -100 kPa
Manometer:	50 mm aD; Scale: 0...16 bar /Vacuum 0...-1 bar
Pressure transmitter:	4-20 mA/24 V DC
Primary voltage:	230 V 50 Hz AC (integrated mains power supply)
Secondary voltage:	12 V AC

ELECTRONICS DESIGN

- High level of safety due to redundant microprocessors (if one processor fails,the second processor will assume all functions)
- Clinical operational alarm: Visual (red and green LEDs) and an acoustic signal in the presence of rising or falling pressure (according to DIN EN: ISO 7396-1)
- Reset key for alarm suppression or confirmation (time-dependent alarm repetition every 12 min); test key for a functional test
- The board contains an integrated connection to the central instrumentation and control systems, i.e. possibility of transmitting the alarm via potential-free relay contacts
- Possibility of retrofitting additional electronics or connection to a network system
- RS485 interface for maintenance / service on the electronics
- Display panel for the media designation

HARDWARE DESIGN

For each type of gas, the shut-off unit consists of the following components:

- Zone shut-off valve and manometer
- Physical separation of the pipe system
- Emergency intake option via NIST coupling
- Pressure sensor

CEGA VENTUS

Ventus Basic

1 TO 6 VALVES

TECHNICAL DATA ELECTRONICS

Voltage supply:	12-24 V AC / 50 Hz
Power consumption:	6 W
Protection rating:	IP41
Acoustic signal generator:	60 dB at 1m distance
Suppression:	12 minutes
Inputs:	max. 6 media monitored
Outputs:	max. 6 items potential-free
Sensors:	Vacuum /compressed gas: -100 to +600 kPa Compressed gas: 0 to 1600 kPa Supply voltage: 10-30 V DC Signal: 4-20 mA
Display:	Operation LED green, fault LED red (2x)

VENTUS BASIC BACK COMPONENTS (When ordering, always specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus 1 valve, only back component, for flush mounting	900.800
Ventus 2 valves, only back component, for flush mounting	900.801
Ventus 3 valves, only back component, for flush mounting	900.802
Ventus 4 valves, only back component, for flush mounting	900.803
Ventus 5 valves, only back component, for flush mounting	900.804
Ventus 6 valves, only back component, for flush mounting	900.805

VENTUS BASIC FRONT COMPONENTS (When ordering, always specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus basic, 1 valve, only front component	900.806
Ventus basic, 2 valves, only front component	900.807
Ventus basic, 3 valves, only front component	900.808
Ventus basic, 4 valves, only front component	900.809
Ventus basic, 5 valves, only front component	900.810
Ventus basic, 6 valves, only front component	900.811

FRAMES FOR SURFACE MOUNTING

Ventus surface frame 1 to 3 valves	900.831
Ventus surface frame 4 to 6 valves	900.832

Ventus Basic Plus

1 TO 6 VALVES

USE

The Ventus shut-off valve system facilitates the targeted exclusion of individual wards or functional areas from the central gas supply system. The integrated electronics continuously monitor the pressure in the piping and visually and acoustically trigger the clinical emergency alarm. Additionally, the Ventus system has an intake point that is specific for the type of gas and is protected against unauthorized opening by means of an electronically monitored door with emergency access.

Installation is suitable for flush mounting, assembly in dry walls or surface mounting. The back of the box is made of zinc-coated sheet steel.

Basic plus version: Door made of sheet steel, powder-coated, opens via an upward moving lifting mechanism.

TECHNICAL DATA

Dimensions of flush mount frame 1-3 valves:	W 370 x H 450 x D 72 mm
Dimensions of flush mount frame 4-6 valves:	W 655 x H 450 x D 72 mm
Dimensions front 1-3 valves:	W 416 x H 496 mm
Dimensions front 4-6 valves:	W 701 x H 496 mm
Connection:	15 mm CU connection pipe
Nominal pressure of compressed gases:	max. 1000 kPa
Nominal pressure vacuum:	max. -100 kPa
Manometer:	50 mm aD; Scale: 0...16 bar /Vacuum 0...-1 bar
Pressure transmitter:	4-20 mA/24 V DC
Primary voltage:	230 V 50 Hz AC (integrated mains power supply)
Secondary voltage:	12 V AC

ELECTRONICS DESIGN

- High level of safety due to redundant microprocessors (if one processor fails,the second processor will assume all functions)
- Clinical operational alarm: Visual (red and green LEDs) and an acoustic signal in the presence of rising or falling pressure (according to DIN EN: ISO 7396-1)
- Reset key for alarm suppression or confirmation (time-dependent alarm repetition every 12 min); test key for a functional test
- The board contains an integrated connection to the central instrumentation and control systems, i.e. possibility of transmitting the alarm via potential-free relay contacts
- Possibility of retrofitting additional electronics or connection to a network system
- RS485 interface for maintenance / service on the electronics
- Display panel for the media designation

HARDWARE DESIGN

For each type of gas, the shut-off unit consists of the following components:

- Zone shut-off valve and manometer
- Physical separation of the pipe system
- Emergency intake option via NIST coupling
- Pressure sensor

CEGA VENTUS

Ventus Basic Plus

1 TO 6 VALVES

TECHNICAL DATA ELECTRONICS

Voltage supply:	12-24 V AC / 50 Hz
Power consumption:	6 W
Protection rating:	IP41
Acoustic signal generator:	60 dB at 1m distance
Suppression:	12 minutes
Inputs:	max. 6 media monitored
Outputs:	max. 6 items potential-free
Sensors:	Vacuum /compressed gas: -100 to +600 kPa Compressed gas: 0 to 1600 kPa Supply voltage: 10-30 V DC Signal: 4-20 mA
	Display:Operation LED green, fault LED red (2x)

VENTUS BASIC BACK COMPONENTS (When ordering, always specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus 1 valve, only back component, for flush mounting	900.800
Ventus 2 valves, only back component, for flush mounting	900.801
Ventus 3 valves, only back component, for flush mounting	900.802
Ventus 4 valves, only back component, for flush mounting	900.803
Ventus 5 valves, only back component, for flush mounting	900.804
Ventus 6 valves, only back component, for flush mounting	900.805

VENTUS BASIC PLUS FRONT COMPONENTS (When ordering, always specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus basic Plus, 1 valve, only front component	900.824
Ventus basic Plus, 2 valves, only front component	900.825
Ventus basic Plus, 3 valves, only front component	900.826
Ventus basic Plus, 4 valves, only front component	900.827
Ventus basic Plus, 5 valves, only front component	900.828
Ventus basic Plus, 6 valves, only front component	900.829

FRAMES FOR SURFACE MOUNTING

VENTUS SURFACE FRAME 1 TO 3 VALVES	900.831
VENTUS SURFACE FRAME 4 TO 6 VALVES	900.832

Ventus Glass

1 TO 6 VALVES

USE

The Ventus shut-off valve system facilitates the targeted exclusion of individual wards or functional areas from the central gas supply system. The integrated electronics continuously monitor the pressure in the piping and visually and acoustically trigger the clinical emergency alarm. Additionally, the Ventus system has an intake point that is specific for the type of gas and is protected against unauthorized opening by means of an electronically monitored door with emergency access. Installation is suitable for flush mounting, assembly in dry walls or surface mounting. The back of the box is made of zinc-coated sheet steel.

Glass Version: Door made of milk glass with interior illumination, opens via a lifting mechanism

TECHNICAL DATA

Dimensions of flush mount frame 1-3 valves:	W 370 x H 450 x D 72 mm
Dimensions of flush mount frame 4-6 valves:	W 655 x H 450 x D 72 mm
Dimensions front 1-3 valves:	W 406 x H 485 mm
Dimensions front 4-6 valves:	W 690 x H 485 mm
Connection:	15 mm CU connection pipe
Nominal pressure of compressed gases:	max. 1000 kPa
Nominal pressure vacuum:	max. -100 kPa
Manometer:	50 mm aD; Scale: 0...16 bar /Vacuum 0...-1 bar
Pressure transmitter:	4-20 mA/24 V DC
Primary voltage:	230 V 50 Hz AC (integrated mains power supply)
Secondary voltage:	12 V AC

ELECTRONICS DESIGN

- High level of safety due to redundant microprocessors (if one processor fails,the second processor will assume all functions)
- Clinical operational alarm: Visual (red and green LEDs) and an acoustic signal in the presence of rising or falling pressure (according to DIN EN: ISO 7396-1)
- Reset key for alarm suppression or confirmation (time-dependent alarm repetition every 12 min); test key for a functional test
- The board contains an integrated connection to the central instrumentation and control systems, i.e. possibility of transmitting the alarm via potential-free relay contacts
- Possibility of retrofitting additional electronics or connection to a network system
- RS485 interface for maintenance / service on the electronics
- Display panel for the media designation

HARDWARE DESIGN

For each type of gas, the shut-off unit consists of the following components:

- Zone shut-off valve and manometer
- Physical separation of the pipe system
- Emergency intake option via NIST coupling
- Pressure sensor

CEGA VENTUS

Ventus Glass

1 TO 6 VALVES

TECHNICAL DATA ELECTRONICS

Voltage supply:	12-24 V AC / 50 Hz
Power consumption:	6 W
Protection rating:	IP41
Acoustic signal generator:	60 dB at 1m distance
Suppression:	12 minutes
Inputs:	max. 6 media monitored
Outputs:	max. 6 items potential-free
Sensors:	Vacuum /compressed gas: -100 to +600 kPa Compressed gas: 0 to 1600 kPa Supply voltage: 10-30 V DC Signal: 4-20 mA
Display:	Operation LED green, fault LED red (2x)

VENTUS BASIC BACK COMPONENTS (When ordering, always specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus 1 valve, only back component, for flush mounting	900.800
Ventus 2 valves, only back component, for flush mounting	900.801
Ventus 3 valves, only back component, for flush mounting	900.802
Ventus 4 valves, only back component, for flush mounting	900.803
Ventus 5 valves, only back component, for flush mounting	900.804
Ventus 6 valves, only back component, for flush mounting	900.805

VENTUS GLASS FRONT COMPONENTS (When ordering, always specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus glass, 1 valves, only front component	900.818
Ventus glass, 2 valves, only front component	900.819
Ventus glass, 3 valves, only front component	900.820
Ventus glass, 4 valves, only front component	900.821
Ventus glass, 5 valves, only front component	900.822
Ventus glass, 6 valves, only front component	900.823

FRAMES FOR SURFACE MOUNTING

Ventus surface frame 1 to 3 valves	900.831
Ventus surface frame 4 to 6 valves	900.832

Ventus Spy

1 TO 6 VALVES

USE

The Ventus shut-off valve system facilitates the targeted exclusion of individual wards or functional areas from the central gas supply system. The integrated electronics continuously monitor the pressure in the piping and visually and acoustically trigger the clinical emergency alarm. Additionally, the Ventus system has an intake point that is specific for the type of gas and is protected against unauthorized opening by means of an electronically monitored door with emergency access.

Installation is suitable for flush mounting, assembly in dry walls or surface mounting. The back of the box is made of zinc-coated sheet steel.

Spy version: Door made of one-way plate glass, opens upwards via a lifting mechanism. The internal illumination turns on during an alarm making it possible to see the manometer.

TECHNICAL DATA

Dimensions of flush mount frame 1-3 valves:	W 370 x H 450 x D 72 mm
Dimensions of flush mount frame 4-6 valves:	W 655 x H 450 x D 72 mm
Dimensions front 1-3 valves:	W 406 x H 485 mm
Dimensions front 4-6 valves:	W 690 x H 485 mm
Connection	15 mm CU connection pipe
Nominal pressure of compressed gases:	max. 1000 kPa
Nominal pressure vacuum:	max. -100 kPa
Manometer:	50 mm aD; Scale: 0...16 bar /Vacuum 0...-1 bar
Pressure transmitter:	4-20 mA/24 V DC
Primary voltage:	230 V 50 Hz AC (integrated mains power supply)
Secondary voltage:	12 V AC

ELECTRONICS DESIGN

- High level of safety due to redundant microprocessors (if one processor fails,the second processor will assume all functions)
- Clinical operational alarm: Visual (red and green LEDs) and an acoustic signal in the presence of rising or falling pressure (according to DIN EN: ISO 7396-1)
- Reset key for alarm suppression or confirmation (time-dependent alarm repetition every 12 min); test key for a functional test
- The board contains an integrated connection to the central instrumentation and control systems, i.e. possibility of transmitting the alarm via potential-free relay contacts
- Possibility of retrofitting additional electronics or connection to a network system
- RS485 interface for maintenance / service on the electronics
- Display panel for the media designation

HARDWARE DESIGN

For each type of gas, the shut-off unit consists of the following components:

- Zone shut-off valve and manometer
- Physical separation of the pipe system
- Emergency intake option via NIST coupling
- Pressure sensor

CEGA VENTUS

Ventus Spy

1- BIS 6-FACH

TECHNICAL DATA ELECTRONICS

Voltage supply:	12-24 V AC / 50 Hz
Power consumption:	6 W
Protection rating:	IP41
Acoustic signal generator:	60 dB at 1m distance
Suppression:	12 minutes
Inputs:	max. 6 media monitored
Outputs:	max. 6 items potential-free
Sensors:	Vacuum /compressed gas: -100 to +600 kPa Compressed gas: 0 to 1600 kPa Supply voltage: 10-30 V DC Signal: 4-20 mA
Display:	Operation LED green, fault LED red (2x)

VENTUS BASIC BACK COMPONENT (When ordering, always, specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus 1 valve, only back component, for flush mounting	900.800
Ventus 2 valves, only back component, for flush mounting	900.801
Ventus 3 valves, only back component, for flush mounting	900.802
Ventus 4 valves, only back component, for flush mounting	900.803
Ventus 5 valves, only back component, for flush mounting	900.804
Ventus 6 valves, only back component, for flush mounting	900.805

VENTUS SPY FRONT COMPONENT (When ordering, always specify the desired types of gas! e.g., 3 valve, O2 / AIR / VAC)

Ventus spy, 1 valve, only front component	900.812
Ventus spy, 2 valves, only front component	900.813
Ventus spy, 3 valves, only front component	900.814
Ventus spy, 4 valves, only front component	900.815
Ventus spy, 5 valves, only front component	900.816
Ventus spy, 6 valves, only front component	900.817

FRAMES FOR SURFACE MOUNTING

Ventus surface frame 1 to 3 valves	900.831
Ventus surface frame 4 to 6 valves	900.832

Ventus Customizations

VENTUS SPECIAL VARIATIONS

Upon request, we can deliver the Ventus basic system with observation windows for the manometers (individually or as a large cutout).

Ventus Biathlon 3 vales	900857
Ventus Biathlon 6 valves	900858
Ventus observation window	upon request

SURFACE DECORATIONS

The surface of the Ventus system can be individually designed. We offer everything including different colors and the most varying materials!

Individualized surface from Ventus	upon request

VENTUS DIGITAL

The Ventus system can be equipped with a blue illuminated liquid crystal display. Thus, the user has access to diverse informational options.

Digital logbook function	900.850
Digital pressure display	900.852
Digital flow display	900.853

NETWORK CAPABILITY

As in the case of many other CEGA components, we offer a network interface for the Ventus system.

Thereby, the Ventus can be integrated into a monitoring system of the medical media supply. This facilitates the central monitoring of the entire gas supply system.

Network function	900.851

SEALED EMERGENCY OPENING

Upon request, we can in addition to the serial door opening alarm also equip the Ventus system with a proven seal system. It is able to immediately detect an unauthorized opening of the Ventus system.

Sealed emergency opening for Ventus basic	900.854
Sealed emergency opening for Ventus basic plus, glass, spy	900.855

LOCKABLE LOCK

Upon request, the Ventus can be equipped with a lockable lock. Naturally, the emergency opening option remains functional.

Lockable lock	900.856