

GM2 SERIES DOME BIAS AUTOMATIC MANIFOLD

GENTEC® GM2 series medical automatic manifold system is designed to provide an uninterrupted gas supply without any manual adjustments. This system automatically switches over when the primary cylinder bank is depleted. Even in case of a power failure, the system continues to supply gas without interruption. The system is designed to meet the latest edition of NFPA 99 and CGA standards.



Features

Automatic Changeover System

- Microprocessor controlled intelligent switchover control system with illuminating LED System Status ("IN USE"-green, "READY"-yellow, "EMPTY"-red)
- Fail-safe solenoid valves in event of power failure
- Dome Bias Regulator technology
- Input 110 VAC to 240 VAC, 50~60 Hz
- Fully enclosed, tamper-resistant metal cabinet
- Integral Alarm Buzzer
- One easy access 3-Way maintenance valve, reducing number of unnecessary valves for contamination and leak points
- Provision for RS 485 communication and Dry Contact Output, can be integrated to a central monitoring system
- Redesigned regulators for smooth flow characteristics
- Designed to maximize consumption of gas from each cylinder before automatic switchover
- High Flow System. Rated for 120 M³/h (4200 SCFH)* to 170 M³/h (6000 SCFH)**

* When delivery pressure is 50 psi

** When delivery pressure is 180 psi

Pipeline

- Open-style manifold system, designed for future expansion needs
- Silver brazing on piping joints for maximum leak prevention
- Unique changeover valve provides uninterrupted supply of gas from primary and reserve banks
- Easy Installation and maintenance.
- Wall mount available.

Specifications

GENTEC® GM2 Series automatic manifold systems shall be manufactured in an ISO 13485 certified facility. The systems shall be compliant with NFPA 99 and ISO 7396.

The GM2 Series automatic manifold systems shall be able to operate without electrical power (except for the heaters for nitrous oxide and carbon dioxide systems). Only the status indicator and alarms require electrical power, therefore in the event of a power failure, the system shall continue to supply gas without interruption. Specially designed solenoid valves will automatically set a default priority bank in event of power failure and continue to automatically changeover without power and signal from the microprocessor.

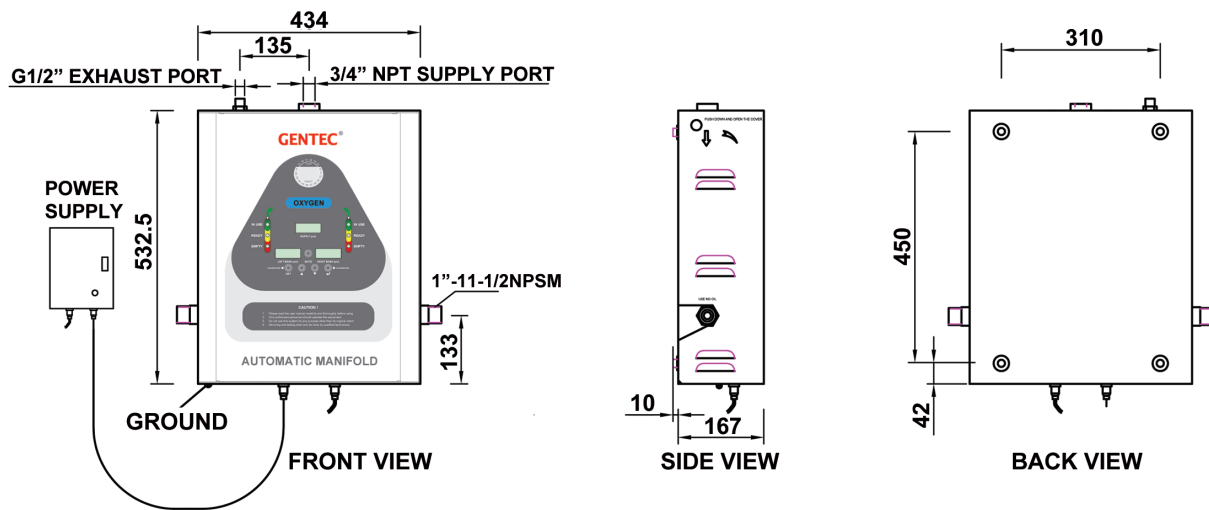
Header bars shall be made of silver brazed, rigid, brass pipe and fittings.

Pigtails with integral check valves shall be gas-specific, complete with CGA nut and nipple inlet and outlet fitting.

The system shall be furnished with a separate power supply to convert 220/110 V to 24 V output power.

Each manifold system shall be cleaned for oxygen service in strict accordance with CGA 4.1, and 100% factory tested for proper operation prior to shipment.

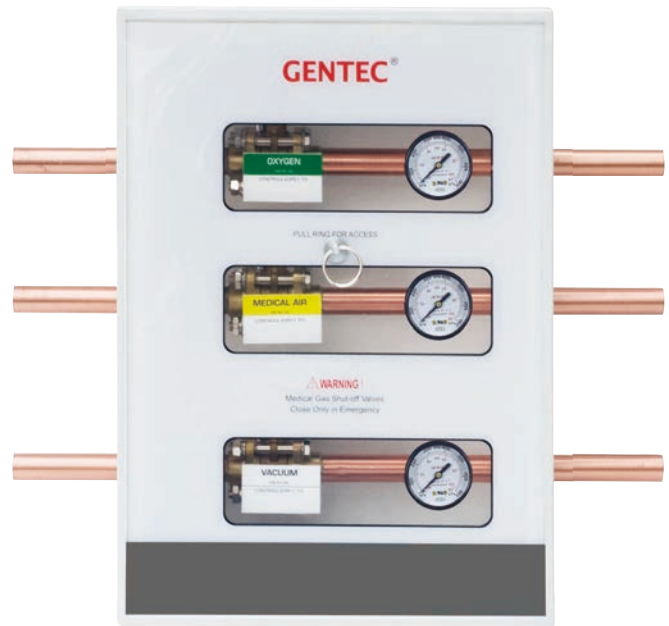
Dimensions



Zone Valve Box Assemblies-Multiple

Features

- 14-gauge steel valve box
- Accepts valve sizes ½ through 2 inches
- Factory installed copper tubing extensions
- Full port valves for high flow
- Gauges ordered separately
- Complies with NFPA99 requirements
- Cleaned for oxygen service
- 5 year warranty



Specifications

Medical gas zone valve boxes shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Boxes shall be designed for concealed piping installation and available for sizes and services indicated.

The valve box shall be 14 gauge powder coated sheet steel construction. A multiple valve box houses up to a 2" valve. Valves shall be factory installed with the smallest valve at the top, largest at the bottom. The box is supplied with a 7/8" flange on top and bottom for easy mounting.

Valve box assembly shall be supplied with a powder coated steel frame, attached to the box by concealed 1-1/2-inch(38mm) screws, which encloses an easily removable flexible window panel. The frame shall be capable of adjusting for variances in wall thickness up to 1". The window panel shall be made of a translucent flexible acrylic plastic with a pull-out ring pre-mounted near the center of the panel. Clear viewing space shall be provided in the panel to display the gas service(s), the area controlled by the valve(s), and pressure gauge(s) on units so equipped. The panel is not replaceable while any valve is in a closed position. Window panel is silk screened with the following statement "**CAUTION: MEDICAL GAS SHUT-OFF VALVES CLOSE ONLY IN EMERGENCY**" The finished assembly shall be substantially dust-tight.

Ball valves shall be double seal, three piece in-line serviceable ball-type design, with forged bronze/ brass body and chrome-plated brass ball.

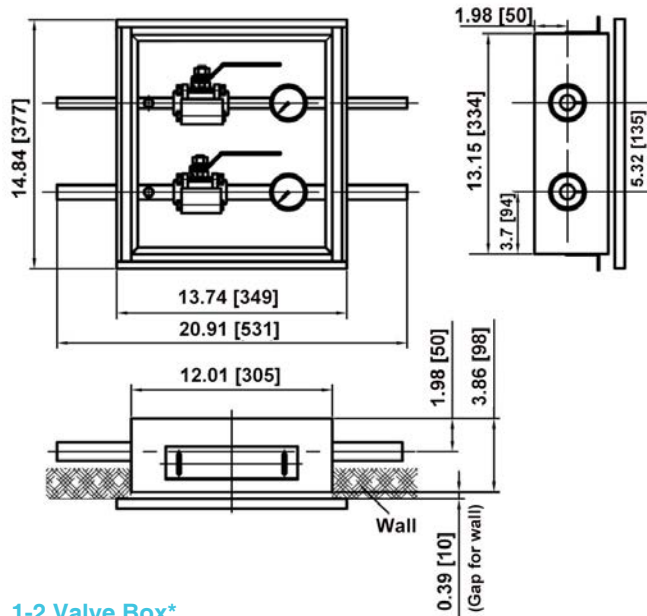
Only ¼ turn of the handle is required to operate the valve from a fully open to fully closed position. The valves shall have a full port design and incorporate an adjustable packing and a blow-out proof stem.

Ball valves shall be designed for working pressure up to 600 psi WOG. Valve body shall have Teflon® material ball seat and Teflon material stem seals. Seats/seals, lubricants and valve materials are compatible with USP oxygen, nitrous oxide, medical air, carbon dioxide, helium, nitrogen and mixtures thereof at continuous pressure up to 600 psi and vacuum service to 29" Hg. Ball valves shall be provided with Type K copper tube extensions, for making connections to the pipeline and shall include dual gauge/purge ports sealed with brass HEX plugs. Gauges, to be ordered separately, shall be 2" face diameter for monitoring pressure and vacuum, and will state: "USE NO OIL". A fully color coded label package shall be supplied with each valve box assembly for application by the installer. Valves are piped from left to right.

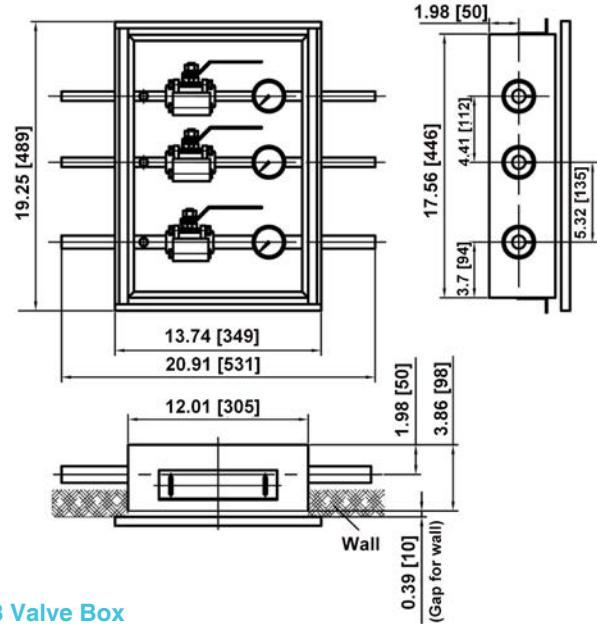
All ball valves shall be supplied clean and prepared for oxygen service in accordance with current CGA G-4.1 standards. All valves shall be 100% tested for leaks and manufactured to comply with the latest edition of NFPA 99. Valves shall be capped to keep them clean prior to installation.

All GENTEC zone valve boxes are backed by a standard 5-year warranty (see warranty statement for details).

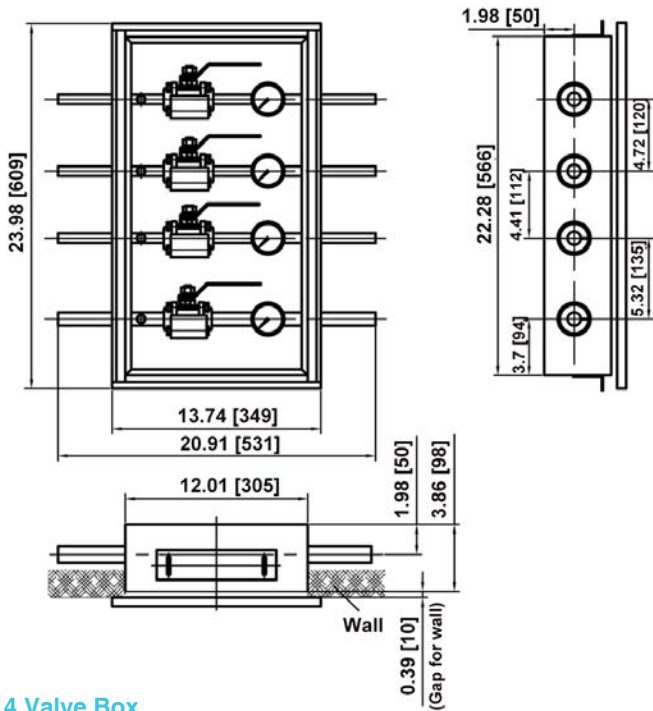
Dimensions



1-2 Valve Box*



3 Valve Box



4 Valve Box

Dimensional Data Notes:

- Up to 2" Valve in a Multiple-Valve Box
- For 1 Valve Box—Top Valve omitted
- The frame shall be capable of adjusting for variances in wall thickness up to 1 inch
- All dimensions in inches(mm)

Notes:

- All valves have Full Port Design and Dual Gauge/Purge Ports
- Gauges are Ordered Separately
- All zone valve box assemblies include dual 1/8"NPT gauge ports/plugs for each valve
- All zone valve box assemblies include one set of labels each for the following services: oxygen, nitrous oxide, medical air, nitrogen, vacuum, WAGD, carbon dioxide and instrument air

Zone Valve Box Assemblies-Multiple

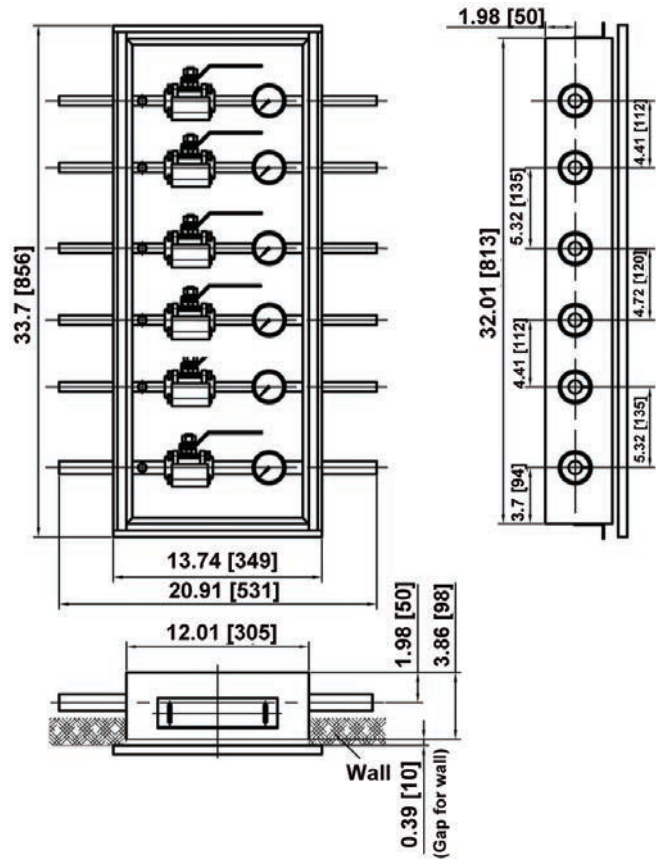
Dimensions (Cont)

Dimensional Data Notes:

- Up to 2" Valve in a Multiple-Valve Box
- For 5 Valve Box–Top Valve omitted
- The frame shall be capable of adjusting for variances in wall thickness up to 1 inch
- All dimensions in inches(mm)

Notes:

- All valves have Full Port Design and Dual Gauge/Purge Ports
- Gauges are Ordered Separately
- All zone valve box assemblies include dual 1/8"NPT gauge ports/plugs for each valve
- All zone valve box assemblies include one set of labels each for the following services: oxygen, nitrous oxide, medical air, nitrogen, vacuum, WAGD, carbon dioxide and instrument air



Material

Box Assembly	Front Panel	Valve
Powder coated steel	Plastic PMMA	Body-Forged bronze/brass
End cover-Nylon	Front panel button/washer-Aluminum	Ball-Chrome plated brass
Bracket(s)-Powder coated steel	Front panel ring-Chrome plated steel	Ball seat and Stem seals-Teflon material
Frame-Powder coated steel		Ball seat and Stem seals-Teflon material
		Gauge port plug-Brass

Ordering Information

EXAMPLE: ZVB	X	X	XX...XX
	Number of Valves	Option	Tubing Dimension
	(1-6)	G: with Gauge None: without	05: 1/2" 07: 3/4" 10: 1" 15: 1-1/2"

For Example: If you would like to order a three-valve zone box with gauge: 1/2", 3/4" and 1", then the model number should be ZVB3G-050710.

Gauges for Zone Valve Boxes

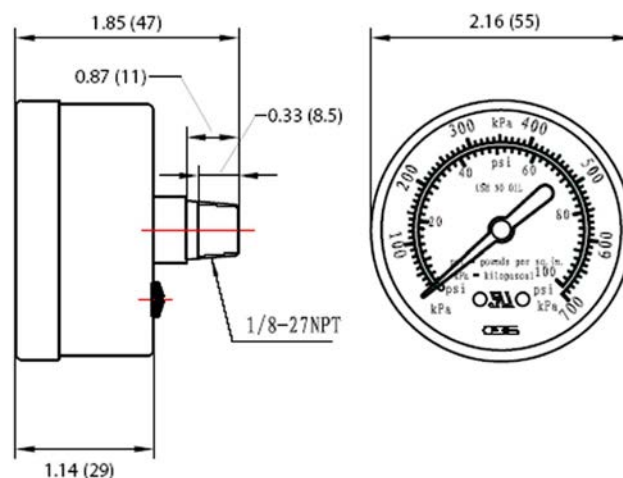
Features

- Size: 2" (50.8mm)
- Style: ASME B40.1 Grade B
- Range(dual): 0-30 inHg; 0-76 cmHg
0-100 psi; 0-700 kPa
0-300 psi; 0-2000 kPa
- Temperature: -40°C to +70°C
- Connection: 1/8-27NPT center back
- Bourdon tube: Tin/Bronze
- Dial: Aluminum alloy
- Needle: Aluminum alloy
- Case: Steel
- Window: Polycarbonate



Specifications

Gauges shall be 2" face diameter, dual scale. Gauges will read 0-100 psi/0-700 kPa for oxygen, medical air, nitrous oxide, and other 50 psi working pressure gases; 0-300 psi/0-2000 kPa for nitrogen and instrument air; and 0-30inHg/0-76 cmHg for vacuum or WAGD. The gauge port shall be equipped with removable plug for pressure testing prior to final assembly of gauge. All gauge model zone valve box assemblies shall read pressure on the patient/point of use side of the valve per NFPA99.



Ordering Information

Gauge Type	Catalog Number	Gases	Quantity
Vacuum, 0-30" Hg	GR2005-030V	Vacuum, WAGD	
Pressure, 0-100 psi	GR2006-100	Oxygen, Medical Air, Nitrous Oxide,	
Pressure, 0-300 psi	GR2006-300	Carbon Dioxide	
		Nitrogen, Instrument Air	

(Gauges ordered separately)

Area Valve Service Unit

Features

- Includes shut-off valve and check valve with NIST connection, easy to operate and maintain
- Diaphragm-sensed regulator provides a consistent outlet flow
- Pressure gauges included to provide accurate reading of pressure
- HTM 02-01 compliant
- Gas service: Oxygen, Nitrogen, Air, Vacuum, and other medical gas
- Maximum operating pressure:
Pressure: 200 psi; Vacuum: -8.7 psi
- Design Pressure:
Pressure line: 232 psi; Vacuum line : -14.5 psi
- Configuration (3 valve):
Both inlet pipe and outlet pipe face upward (vertical)

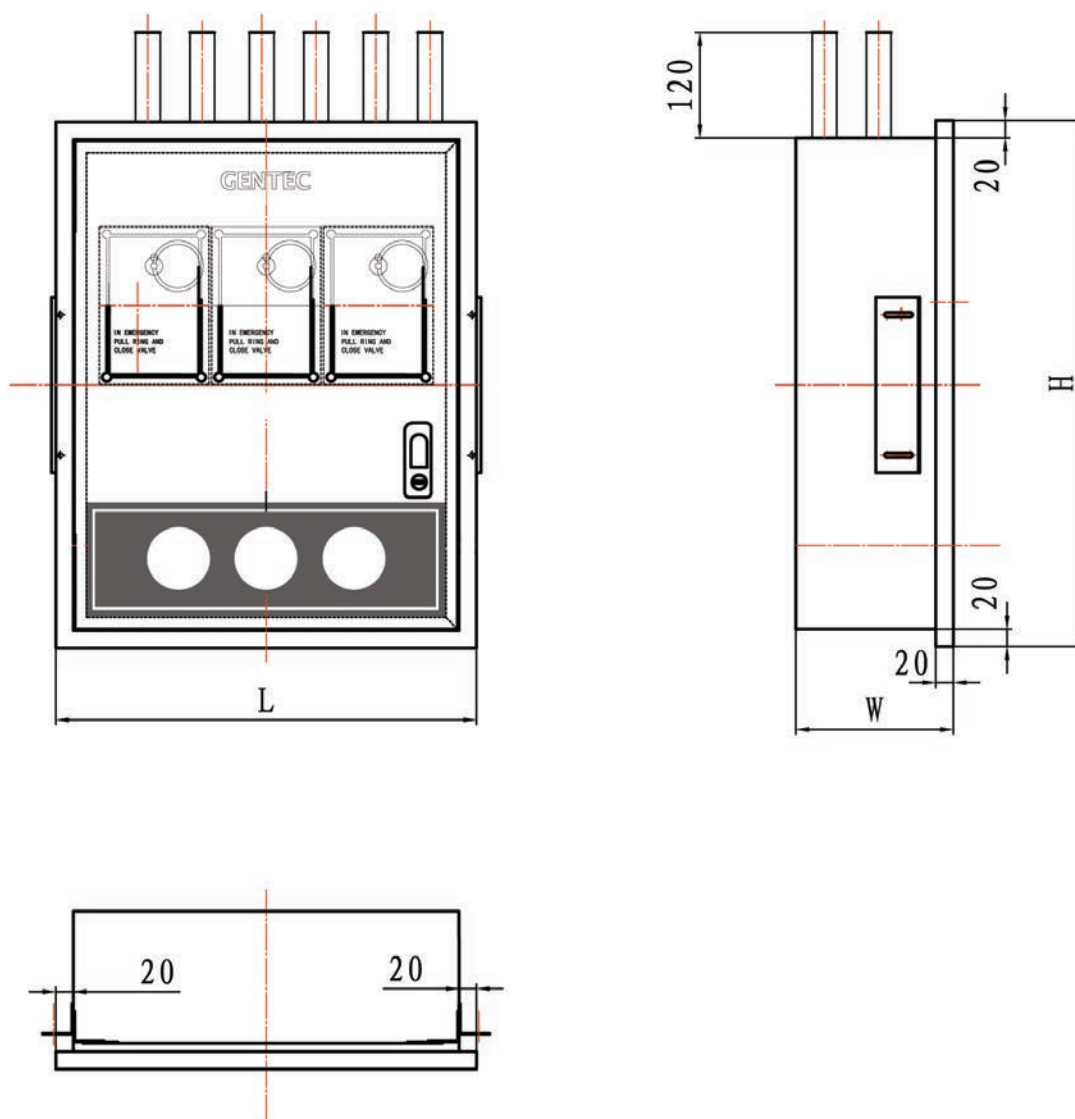


Ordering Information

AVB	H	-	3	-	G	O	-	10
	Standard		Number of Channels		Structure	Gas Service		Pipe Diameter
	H: HTM standard compliant E: ISO 7396 (EN737) compliant Blank: NFPA Standard		(1-6)		G: With Pressure Gauge R: With Regulator A: With Alarm D: With Digital Display V: Inlet and outlet on upper side None: Without Gauge	O: Oxygen V: Vacuum A: Medical Air 2: Nitrous Oxide C: Carbon Dioxide N: Nitrogen		05: 1/2" 07: 3/4" 10: 1" 15: 1-1/2"

Please follow the instructions below to select the correct model number.

Dimensions



Ordering Information

Dimensions: in.(mm)			
Pipe Diameter	H	L	W
1/2"	16.5"(420)	13.8"(350)	6.3"(160)
3/4"	23.6"(600)	18.9"(480)	7.1"(180)
1"	23.6"(600)	18.9"(480)	7.1"(180)
1-1/4"	31.1"(790)	25.2"(640)	7.1"(180)
1-1/2"	31.1"(790)	25.2"(640)	7.1"(180)

Note: Pipe diameter can be chosen to meet user requirements; enclosure dimensions are determined by the dimensions of the pipe.

Gas Control Panel

Features

- Aluminum front panel for ease of maintenance
- Inlet and outlet display gauges in psi / kPa
- High flow capacity
- Manual shut-off valve
- Outlet supply pipe for additional remote outlets
- Maximum inlet pressure: 300 psi
- NFPA 99 compliant



Specifications

Medical gas control panel(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®) in an ISO 13485 certified facility. The control panel shall be oxygen cleaned and tested in strict accordance with NFPA 99.

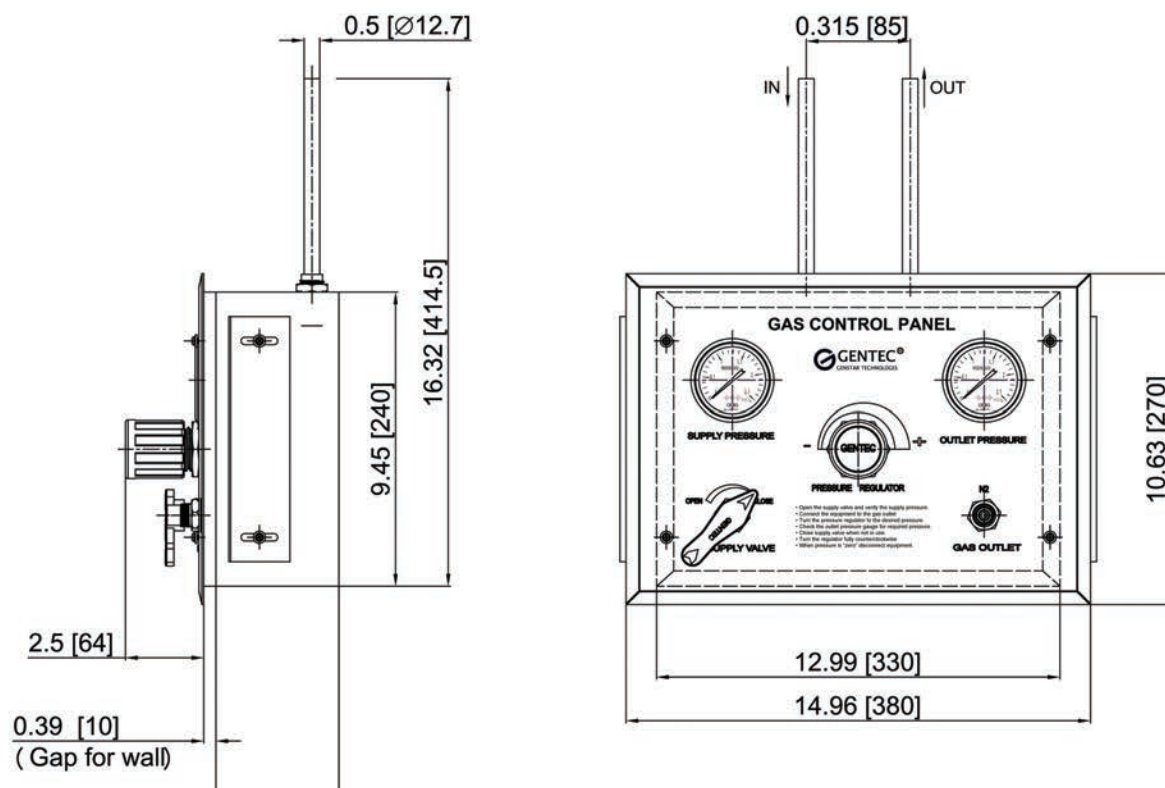
The gas control panel shall be supplied with a quarter turn shut-off stainless steel ball valve, rated at no less than 300 psi. Two 0-400 psi 2" diameter pressure gauges shall be provided to monitor both inlet and outlet pressures. The control panel shall come with a pressure regulator, adjustable between

0 to 300 psi.

The DISS outlet shall be a Diameter Index Safety System for Air or Nitrogen outlet for pressure above 200 psi. Customized outlet connections are available. The outlets shall be used for connections to pneumatic surgical tools.

The gas control panel shall be factory piped and 100% tested. All components shall be panel mounted on the front panel.

Dimensions



Note: All dimensions are reference.

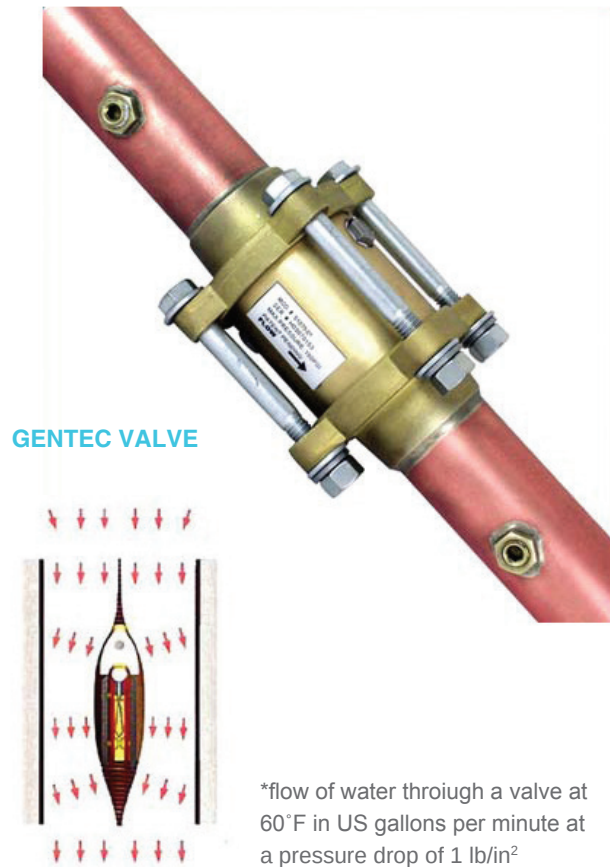
Ordering Information

GCP200 - N	Nitrogen Control Panel, Diss Connector
GCP200 - A	Air Control Panel, Diss Connector

MEDICAL CHECK VALVES WITH EXTENSIONS

Features

- Available in Sizes 3/4 " to 4"
- 3 Piece Design for Ease of Maintenance
- Type K Copper Extensions
- Dual Gauge/Purge Ports
- High Flow, Minimal Pressure Drop
- Cleaned for Oxygen Service
- 100% Hydrostatically Tested
- NFPA-Compliant



*flow of water through a valve at 60°F in US gallons per minute at a pressure drop of 1 lb/in²

Specifications

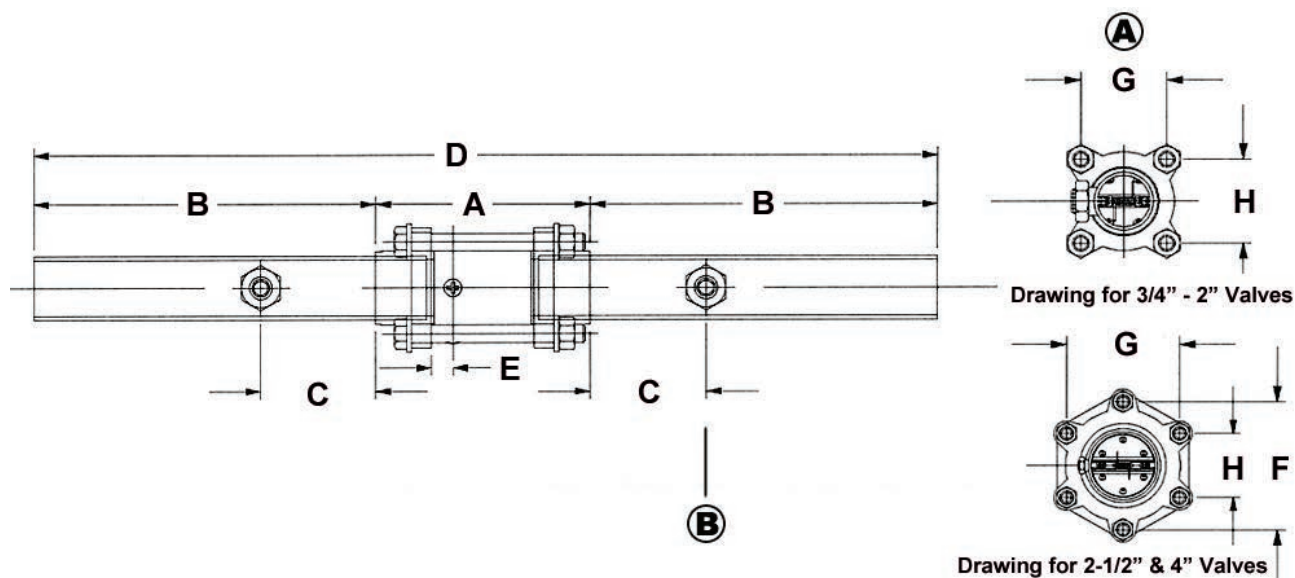
GENTEC® medical check valves shall be designed for concealed piping installation and available for sizes and services indicated.

Check valves shall be brass construction and designed for working pressures of up to 300 psi. The valve body is a 3-piece design with Vitor®/EPDM/Teflon® seats. The body shall be field removable for servicing without having to cut to cut or disassemble the medical gas lines. Valves shall be provided with factory-installed Type K copper extensions for making connections to the pipeline and shall include dual gauge/purge ports, sealed with brass HEX plugs, located upstream and downstream of check valve. The GENTEC® valve has a high coefficient of flow (Cv)*, and a tight seal, which eliminates the chatter and leakage that is common with some ball and cone check valves.

All check valves with extensions shall be cleaned for oxygen service per current CGA G-4.1 standards, and be 100% hydrostatically tested. Valves shall be capped and sealed in a polyethylene bag to keep them clean prior to installation.

All All GENTEC® medical check valves are backed by a standard 5-year warranty (see warranty statement for details).

Dimensions



Dimensional Data Notes:

- A. Four bolts used on 3/4"-2"; Six bolts used on 2 1/2"-4" valves
 B. Gauge port with 1/8" plug (gauge not supplied)

Dimensions: (Inches)								
Valve Size	A	B	C	D	E	F	G	H
3/4"	3.21	6.00	2.00	15.21	.33	--	1.43	1.43
1"	3.72	6.00	2.00	15.72	.33	--	1.62	1.62
1-1/4"	4.06	6.00	2.00	16.06	.40	--	2.00	2.00
1-1/2"	4.45	6.00	2.00	16.45	.40	--	2.25	2.25
2"	5.18	6.00	2.00	17.18	.40	--	2.86	2.86
2-1/2"	6.10	6.00	2.00	18.10	.50	4.94	4.28	2.47
3"	6.76	6.00	2.00	18.76	.50	5.51	4.77	2.75
4"	8.56	6.00	2.00	20.56	.50	7.46	6.46	3.73

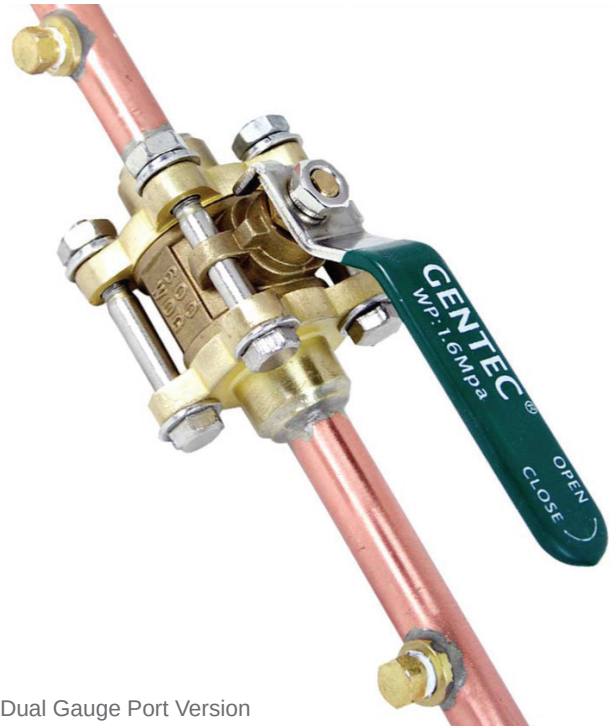
Ordering Information

Valve Size	Catalog Number	Quantity
3/4"	CVP-07	
1"	CVP-10	
1-1/4"	CVP-12	
1-1/2"	CVP-15	
2"	CVP-20	
2-1/2"	CVP-25	
3"	CVP-30	
4"	CVP-40	

BALL VALVES 1/2" TO 4", WITH EXTENSIONS

Features

- Available in sizes 1/2 " to 4"
- 3 piece design for ease of maintenance
- Quarter-turn, full port design Valves
- Blow out proof valve stem
- Teflon® seats and seals
- Dual gauge port version
- Lockable or non-lockable handles available
- Cleaned for oxygen service
- 100% hydrostatically tested
- NFPA-Compliant



Dual Gauge Port Version

Specifications

Medical gas ball shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Ball valves shall be designed for concealed piping installation and available for sizes and services indicated.

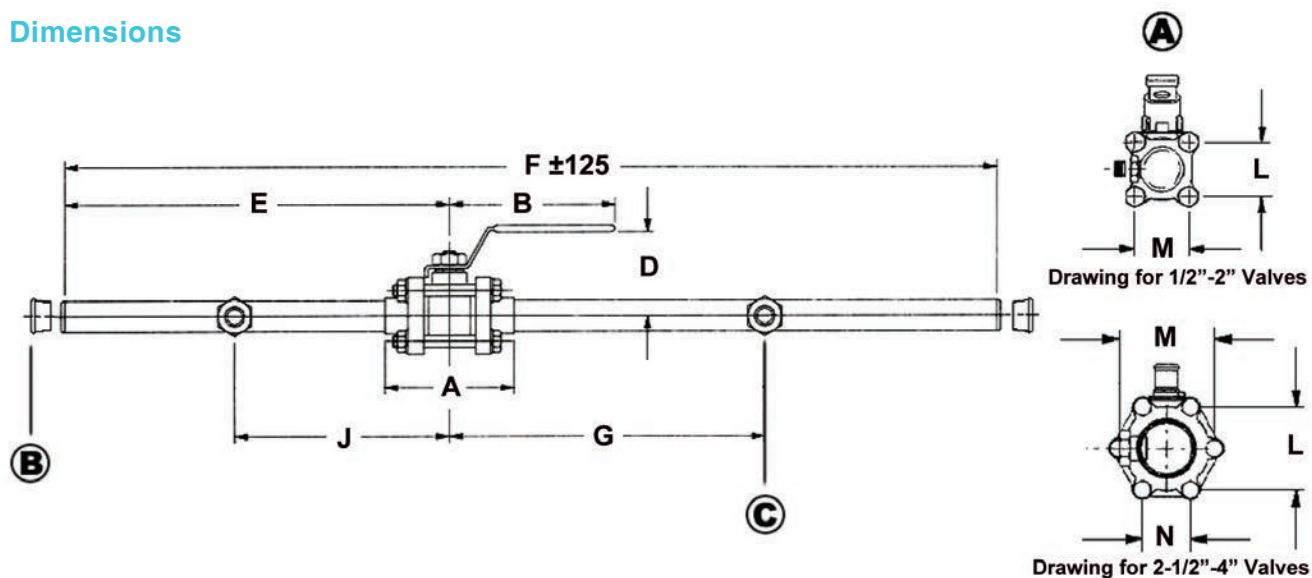
Ball valves shall be double seal, three piece in-line serviceable ball-type design, with forged bronze/brass body and chrome-plated brass ball. Only ¼ turn of the handle is required to operate the valve from a fully open to fully closed position. The valves shall have a full port design and incorporate an adjustable packing and a blow-out proof stem.

Ball valves shall be designed for working pressure up to 600 psi WOG. Valve body shall have Teflon® material ball seat and Teflon® material stem seals. Seats/seals, lubricants and valve materials are compatible with USP oxygen, nitrous oxide, medical air, carbon dioxide, helium, nitrogen and mixtures thereof at continuous pressure up

to 600 psi and vacuum service to 29" Hg. Ball valves shall be provided with type-K copper tube extensions, for making connections to the pipeline and shall include a single gauge/purge port sealed with a brass HEX plug. Locking or nonlocking handles are available (locks furnished and installed by others).

All ball valves shall be supplied clean and prepared for oxygen service in accordance with current CGA G-4.1 standards. All valves shall be 100% tested for leaks and manufactured to comply with the latest edition of NFPA-99. Valves shall be capped and sealed in a polyethylene bag to keep them clean prior to installation.

Dimensions



Dimensional Data Notes:

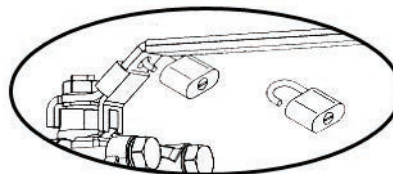
- A. Four bolts used on 1/2"-2"; Six bolts used on 2 1/2"-4" valves
- B. Extension Cap
- C. Gauge port with 1/8" plug (gauge not supplied)

Dimensions: (Inches)										
Valve Size	A	B	D	E	F	G	J	M	N	L
1/2"	2.62	3.35	1.69	8.20	20.93	5.58	2.38	1.00	1.29	--
3/4"	2.93	4.33	1.89	8.43	21.00	5.28	2.70	1.43	1.43	--
1"	3.44	4.33	2.03	8.58	21.00	5.09	2.89	1.62	1.62	--
1-1/4"	3.96	5.12	2.56	8.74	20.98	5.49	3.24	2.00	2.00	--
1-1/2"	4.43	5.12	2.72	8.86	20.99	4.85	3.38	2.25	2.25	--
2"	5.55	6.30	3.15	9.23	21.06	4.78	3.76	2.81	2.81	--
2-1/2"	6.73	9.06	4.29	8.50	23.50	7.00	4.25	4.33	2.50	5.00
3"	7.56	9.06	4.61	8.50	24.00	7.00	4.50	4.76	2.75	5.50
4"	9.80	11.73	7.90	8.50	32.00	7.90	7.90	6.38	3.73	7.45

Ordering Information

Valve Size	Catalog Number	
	Single Port Ball Valves	Dual Port Ball Valves
	Locking Handle (Non-Locking)	Locking Handle (Non-Locking)
1/2"	VL1-05L1 (VL1-05N1)	VL1-05L2 (VL1-05N2)
3/4"	VL1-07L1 (VL1-07N1)	VL1-07L2 (VL1-07N2)
1"	VL1-10L1 (VL1-10N1)	VL1-10L2 (VL1-10N2)
1-1/4"	VL1-12L1 (VL1-12N1)	VL1-12L2 (VL1-12N2)
1-1/2"	VL1-15L1 (VL1-15N1)	VL1-15L2 (VL1-15N2)
2"	VL1-20L1 (VL1-20N1)	VL1-20L2 (VL1-20N2)
2-1/2"	VL1-25L1 (VL1-25N1)	VL1-25L2 (VL1-25N2)
3"	VL1-30L1 (VL1-30N1)	VL1-30L2 (VL1-30N2)
4"	VL1-40L1 (VL1-40N1)	VL1-40L2 (VL1-40N2)

Valve Locking Handle



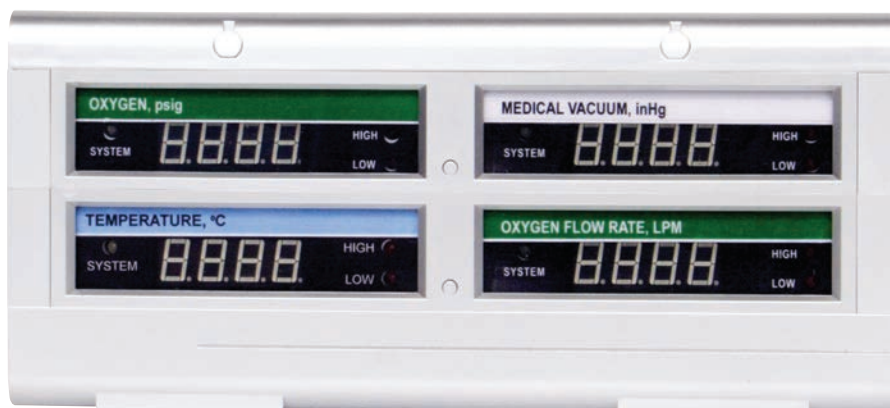
GUMACSTM SERIES MEDICAL GAS AREA ALARM

Features

- Modular system configuration
- 1 to 16 input channels available
- Pressure units are customizable (Psi, kPa, Bar, MPa, inHg, and mmHg)
- Can be used to monitor pressure, flow rate, temperature, humidity, concentration, and other safety indexes
- High/low alarm limits and silence time are customizable
- Built-in RS-485 communication port for networking
- Accept 4-20 mA current inputs and single-ended voltage signals
- One contact switch output per input channel
- Displays error message when pressure transducer is not connected
- Compact size with large four-digit LED numerical displays
- Dual color LEDs for system statuses
- All parameters can be field adjustable
- Labels can be customized upon request
- Alarm volume is adjustable



Area Alarm with Local Sensors



GUMACSTM Series Area Alarm is CE marked and NFPA 99 compliant. Designed to accept a variety of input signals, GUMACSTM Series Area Alarm is often used to monitor pressure, flow rate, temperature, humidity, concentration, and other safety indexes.

If needed, GUMACSTM Series Area Alarm can also offer relay switch output control capability.

Built-in RS485 communication port allows each GUMACSTM Series

alarm to be networked for remote monitoring. The physical data will be processed and displayed on site by the area alarms. In addition, GUMACSTM System Console can request data from the slave modules, the area alarms and master alarms.

Electrical and Physical Specifications

Electrical			
Power Requirements	Analog Input	Relay Output	Buzzer
Input: 100-240 VAC, 0.5 A Maximum	Input Type: (1) Single-ended, voltage (2) Differential, voltage (3) 4-20 mA current supplying 15 VDC (4) 4-20 mA current not supplying 15 VDC Working Range: ± 10 VDC/4-20 mA Safe Range: ± 14 VDC/0-28 mA Maximum Resolution: 14 bit or 1% of sensor full range	Channels: 1 output per 1 input channel Range: 0.15 A at 48 VDC/1 A at 30 VDC/0.5 A at 120 VAC	Adjustable Intensity

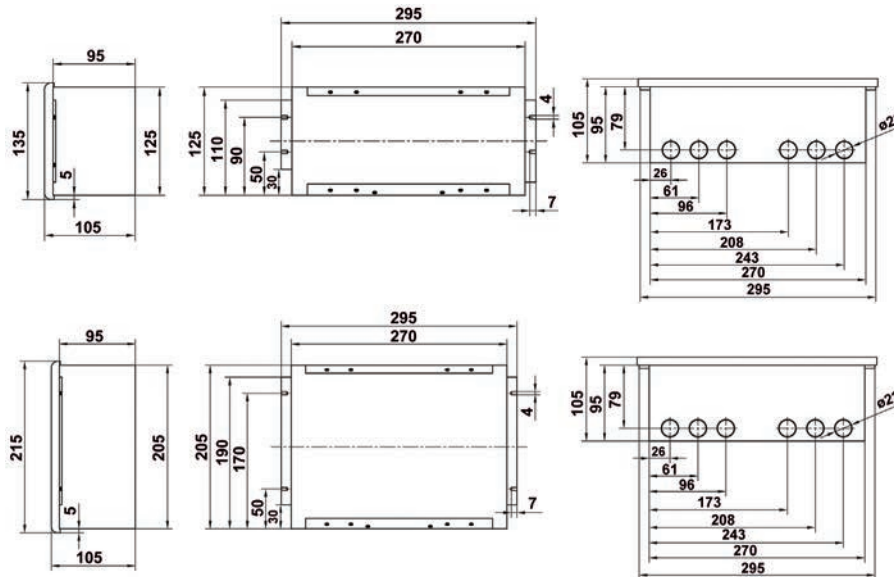
Mechanical			
Front Panel	Case Body	Physical Dimensions (Width x Height x Depth)	Wall Opening (Width x Height) (Depth beneath the wall is 95 mm)
Injection Molded Plastic (PCABS, V0 Flame Rated)	Metal Alloy	Overall: 1-4 Channel: 300 x 135 x 107mm 5-6 Channel: 300 x 175 x 107mm 7-8 Channel: 300 x 215 x 107mm	5-6 Channel: 272 x 165mm 1-4 Channel: 272 x 125mm 7-8 Channel: 272 x 205mm

Communication

RS-485 Port

9600/19200 baud,
standard (8-bit data, no parity,
1 stop bit)

Dimensions



Ordering Information

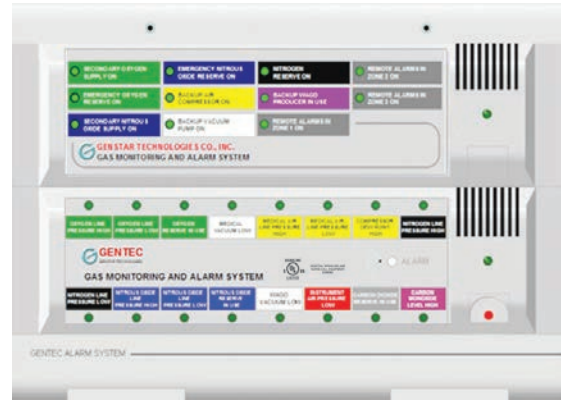
GUMACS	-	R	-	3	-	OVA
Area Alarm	Sensor Type	Number of Numerical Display	Gas Type			
	L: Local Sensor R: Remote Sensor	(0 to 10 Normally)	O: Oxygen V: Vacuum A: Medical Air I: Instrument Air N: Nitrogen 2: Nitrous Oxide C: Carbon Dioxide W: WAGD Vacuum			

Example: GUMACS - R - 3 - OVA indicates an area alarm (remote sensor) for oxygen, vacuum, and medical air.

GUMACSTM SERIES MEDICAL GAS MASTER ALARM

Features

- Can expand up to 64 TTL or contact switch inputs
- Can offer up to 48 switch output capability
- Built-in RS-485 communication port for networking
- Can be upgraded to a combination alarm if numerical displays are required
- Accept both normally open (N/O) and normally closed (N/C) switches
- High/low alarm limits and silence time are customizable
- Can be used to monitor the conditions of area alarms
- Labels can be customized upon request
- Alarm volume is adjustable



GUMACSTM Series Master Alarm (up to 32 inputs)



GUMACSTM Series Master Alarm is CE marked and NFPA 99 compliant. It is used to monitor the operation conditions of source equipments such as air compressors, vacuum pumps, and/or manifold systems, etc. GUMACSTM Series Master Alarm can also offer relay switch output control capability when required.

Built-in RS485 communication port allows each GUMACSTM Series alarm to be networked for remote monitoring. The physical data will be processed and displayed on site by the master alarm. In addition, GUMACSTM System Console can request data from the slave modules, the area alarms and master alarms.

Although not done conventionally, GUMACSTM Series Master Alarm can be used as an Area Alarms Monitoring Center. When connected, the working conditions of the area alarms will be displayed on the Area Alarms Monitoring Center. This would be a good solution for a medium-sized central monitoring project.

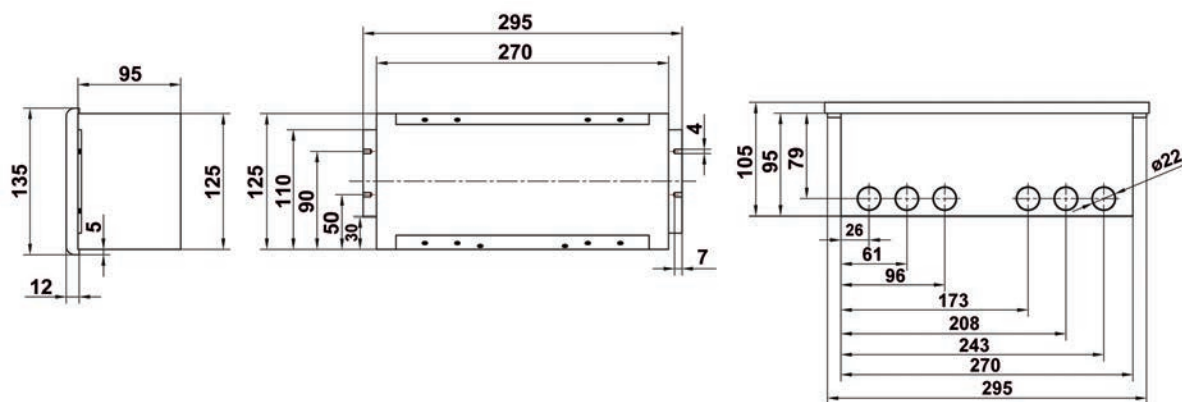
Electrical and Physical Specifications

Electrical				
Power Requirements	Analog Input (for first module)	Digital Output (for one expansion module)	Digital Input (for one expansion module)	Numerical Display
Input: 100-240 VAC, 0.5 A Maximum	Input Type: (1) Single-ended, voltage (2) Differential, voltage (3) 4-20 mA current supplying 15 VDC (4) 4-20 mA current not supplying 15 VDC Working Range: ± 10 VDC/4-20 mA Channels: 16 Maximum Safe Range: ± 14 VDC/0-28 mA Maximum Resolution: 14 bit or 1% of sensor full range	5 VDC, -2.6 mA per Channel Maximum Number of Channels: 16 Maximum Omron G2R-1, G2R-14, G2R-1A, G2R1A4 or Grayhill 70-OAC5, 70-ODC5, and Compatibles	5 VDC, 24 mA per Channel Maximum Number of Channels: 16 Maximum Grayhill 70-IAC5, 70-IDC5, and Compatibles	Resolution: Large 7-segment, four-digits LED)

Mechanical			
Front Panel	Case Body	Physical Dimensions (Width x Height x Depth)	Wall Opening (Width x Height) (Depth beneath the wall is 95 mm)
Injection Molded Plastic (PCABS, V0 Flame Rated)	Metal Alloy	Overall: 1-16 Channel: 300 x 135 x 107 mm 17-32 Channel: 300 x 215 x 107 mm 33-48 Channel: 300 x 295 x 107 mm 49-64 Channel: 300 x 375 x 107 mm	1-16 Channel: 272 x 125 mm 17-32 Channel: 272 x 205 mm 33-48 Channel: 300 x 285 mm 49-64 Channel: 300 x 365 mm

Communication
RS-485 and RS-232 Port
9600/19200 baud, standard (8-bit data, no parity, 1 stop bit)

Dimensions



Ordering Information

GUMACS	-	1	-	OVA
Master Alarm		Number of LED Display		Gas Type
		0: 0 LED Display 1: 1-16 LED Display		O: Oxygen V: Vacuum A: Medical Air I: Instrument Air N: Nitrogen 2: Nitrous Oxide C: Carbon Dioxide W: WAGD Vacuum

Example: GUMACS - 1 - OVA indicates an master alarm for oxygen, vacuum, and medical air.

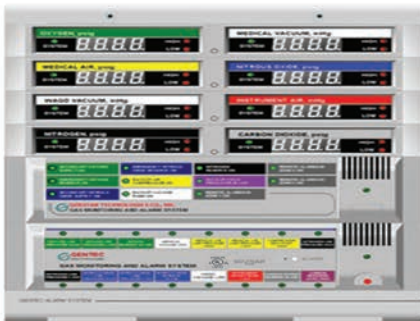
GUMACSTM SERIES MEDICAL GAS COMBINATION ALARM

Features

- Can be expanded to handle up to 64 TTL or contact switch inputs and 48 TTL or relay (contact switch) outputs
- Built-in RS-485 communication port for networking
- High/low alarm limits and silence time are customizable
- Relative positions of modules can be adjusted to meet the space requirements or limitations
- Displays error message when pressure transducer is not connected
- Labels can be customized upon request
- Alarm volume is adjustable



GUMACSTM Series Combination Alarm



Flexibility of Module Placement

GUMACSTM Series Combination Alarm is CE marked and NFPA 99 compliant. Integrating the numerical display functions and master alarm functions, the combination alarm is sometimes more preferable. It can be used to monitor the operational conditions of source equipment and other numerical safety indexes. GUMACSTM Series Combination Alarm can also offer relay switch output control capability when required.

Built-in RS485 communication port allows each GUMACSTM Series alarm to be networked for remote monitoring. The physical data will be processed and displayed on site by the combination alarm. In addition, GUMACSTM System Console can request data from the slave modules, area alarms and master alarms.

Electrical and Physical Specifications

Electrical				
Power Requirements	Analog Input (for first module)	Digital Output (for one expansion module)	Digital Input (for one expansion module)	Numerical Display
Input: 100-240 VAC, 0.5 A Maximum	Input Type: (1) Single-ended, voltage (2) Differential, voltage (3) 4-20 mA current supplying 15 VDC (4) 4-20 mA current not supplying 15 VDC Working Range: ± 10 VDC/4-20 mA Channels: 16 Maximum Safe Range: ± 14 VDC/0-28 mA Maximum Resolution: 14 bit or 1% of sensor full range	5 VDC, -2.6 mA per Channel Maximum Number of Channels: 16 Maximum Omron G2R-1, G2R-14, G2R-1A, G2R1A4 or Grayhill 70-OAC5, 70-ODC5, and Compatibles	5 VDC, 24 mA per Channel Maximum Number of Channels: 16 Maximum Grayhill 70-IAC5, 70-IDC5, and Compatibles	Resolution: Large 7-segment, four-digits LED)

Mechanical			
Front Panel	Case Body	Physical Dimensions	Wall Mounting Hole
Injection Molded Plastic (PCABS, V0 Flame Rated)	Metal Alloy	Customized	Customized

Communication
RS-485 and RS-232 Port
9600/19200 baud, standard (8-bit data, no parity, 1 stop bit)

Wiring
Termination
Analog Input, I/O, and RS-485: PCB mounted screw terminal connections AC Power: 3 pin AC power connections

Ordering Information

GUMACS	-	R	-	1	-	3	-	OVA
Combination Alarm		Sensor Type		Number of LED Display		Number of Numerical Display		Gas Type
		L: Local Sensor R: Remote Sensor		0: 0 LED Display 1: 1-16 LED Display		(0 to 10 Normally)		O: Oxygen V: Vacuum A: Medical Air I: Instrument Air N: Nitrogen 2: Nitrous Oxide C: Carbon Dioxide W: WAGD Vacuum

Example: GUMACS - R - 1 - 3 - OVA indicates a combination alarm (remote sensor) with 3 LED Display (oxygen, vacuum, medical air)

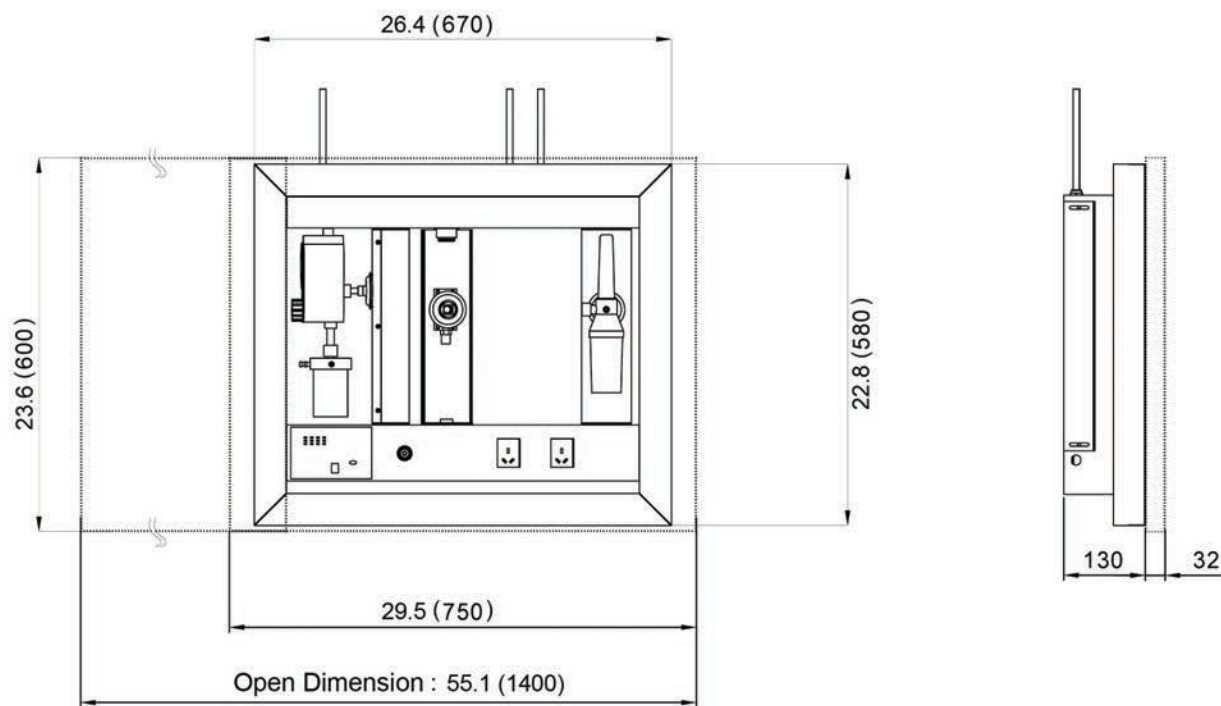
ART WALL ENCLOSURE

Features

- Designed for hospital rooms where design is emphasized, replaces traditional bedhead units
- The painting sits on a sliding mechanism which can hide the medical equipment while they are not in use
- The art piece and exterior design can be customized to meet or match a variety of design requirements
- A wide range of medical products & accessories can be custom-ordered
- Gas and electric channels are insulated to ensure safety



Dimensions



Note: All dimensions are reference.

Ordering Information

3721 - P01 - GS		
Series	Canvas Style	Medical Gas Outlet
3721	P01: Portrait	OH: Ohmeda® adapter
	P02: Landscape	DS: DISS hex adapter
	P03: Abstract	DH: DISS hand tight adapter
		CH: Chemetron® adapter
		PB: Puritan-bennett® adapter
		FS: French (NF S 90-116) adapter
		GS: German (DIN 13260-2) adapter
		BS: British (BS5682-1998) adapter
		JIS: Japanese Style adapter
		SIS: Australian (AS2896) adapter

Please contact Genstar for more ordering information.

MEDICAL BEDHEAD UNITS

Features

- Aluminum alloy, powder coated to protect against oxidation
- Single & dual trunks available
- Gas and electrical channels are separated by trunks to ensure safety
- Easy installation and maintenance
- Custom-ordered color available
- 100% tested for leakage

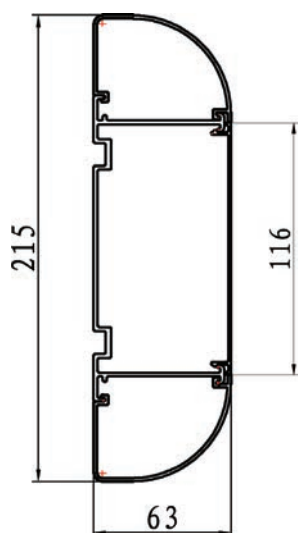


3703 Series

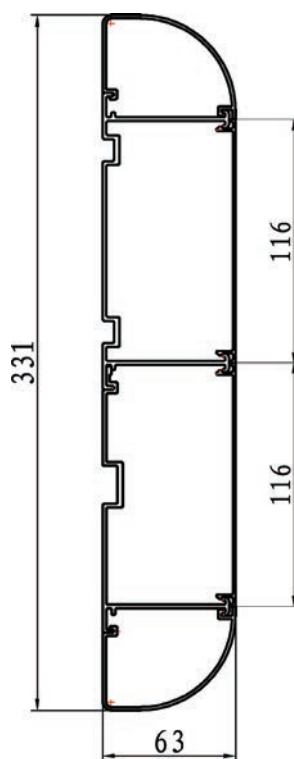


3702 Series

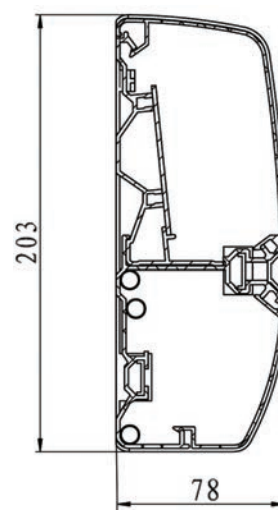
Dimensions



3701 Series



3702 Series



3703 Series

Ordering Information

Please contact Genstar for ordering information.

MEDICAL GAS CONSOLE OUTLET OHMEDA® COMPATIBLE 90° TUBING

Features

- Accepts only Ohmeda style gas specific adapters
- Indexed to prevent interchangeability of gas services
- 360° swivel inlet tube for easy installation
- Cleaned for oxygen service
- 100% leak tested
- Complies with NFPA 99

Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®) in an ISO 9001 and ISO 13485 certified facility. Console outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific rough-in assembly, and a matching gas specific latch valve assembly, both cleaned for oxygen use and in strict accordance with CGA G-4.1 and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly shall be Ohmeda quick connect compatible, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can easily be converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed to the outlet body. Inlet tubing shall be type "K" copper, 1/2" O.D. (12.7 mm), extend 6-1/2 inches (165

mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. A dust plug shall be provided to protect rough-in assembly from contamination during and handling and installation.

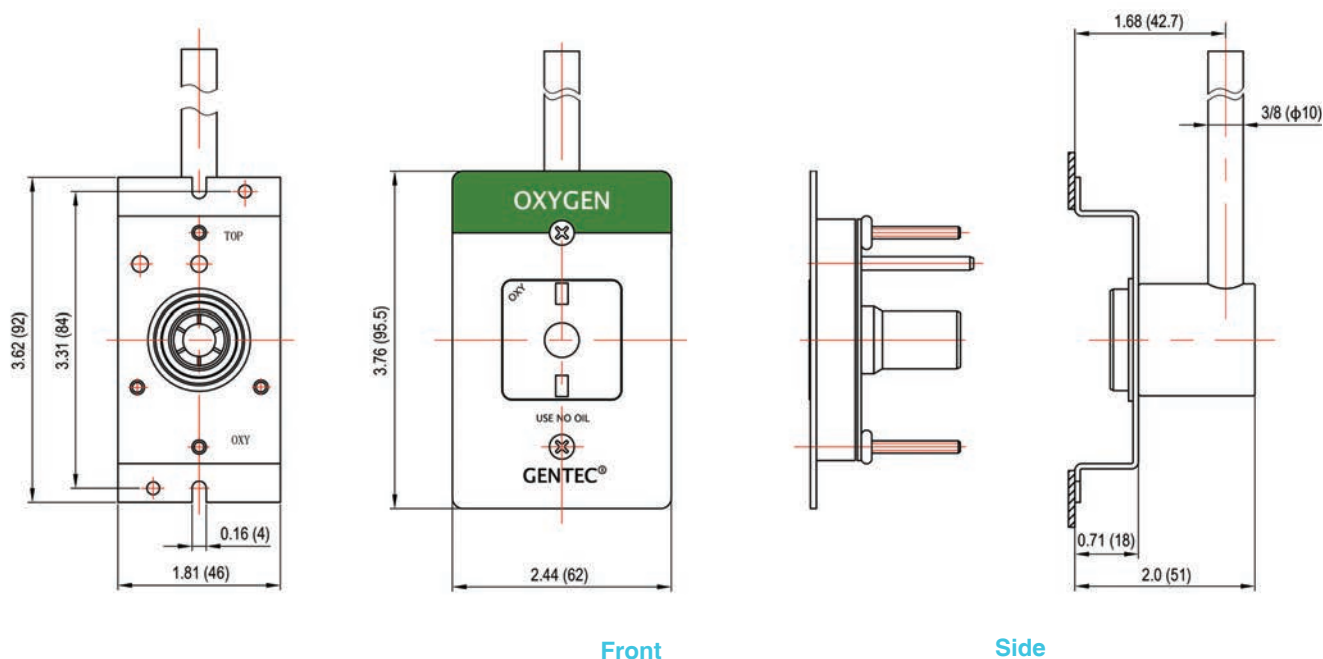
The rough-in assembly shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All gas outlets shall have primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL and CSA approved.



Dimensions



Dimensional Data Notes:

- Ohmeda compatible quick connect type latch valve shown
- 3/8" (9.5 mm) Nominal (1/2" O.D.) (12.7 mm) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle
- Inch (mm)
- Wall thickness 1/2" (12.7 mm) to 1" (12.5 mm)

Ordering Information

Ohmeda Compatible		
Gas Service	Catalog Number	Quantity
Oxygen	3811U-O	
Vacuum	3811U-V	
Medical Air	3811U-A	
Nitrous Oxide	3811E-2	
WAGD	3811U-W	
Carbon Dioxide	--	
Nitrogen	--	
Instrument Air	--	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Aluminum+Coating
ABS Plastic	ABS Plastic	
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information shows a Complete Console Outlet, including a Rough-in Assembly and a Latch Valve Assembly. Trim plate is optional.

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.



MEDICAL GAS CONSOLE OUTLET OHMEDA® COMPATIBLE 180° TUBING

Features

- Accepts Ohmeda®, Chemetron® or Puritan-Bennett® quick connect and DISS gas specific adapters
- Indexed to prevent interchangeability of gas services
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Console outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific rough-in assembly, and a matching gas specific latch valve assembly, both cleaned for oxygen use and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly shall be Ohmeda, Chemetron or Puritan-Bennett quick connect compatible, or have Compressed Gas Association (CGA) Diameter Index Safety System (DISS) threaded connector, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can easily be converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) and gas inlet tubing silver brazed at 180 degrees to the outlet body. Inlet

tubing shall be type "K" copper, 1/2" (12.7 mm) OD, and extend 6-1/2 inches (165 mm).

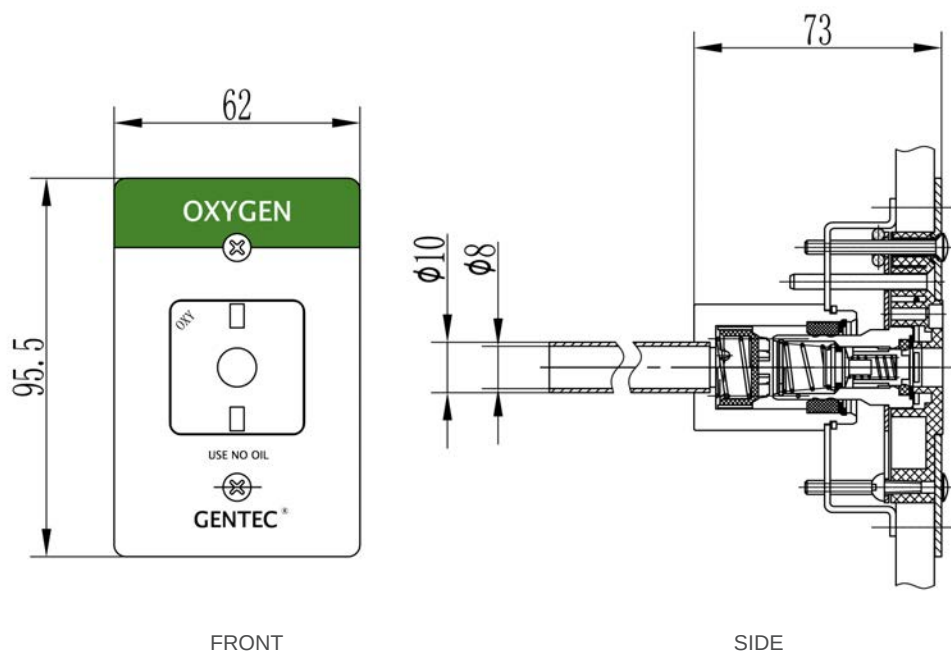
Rough-in assembly shall accept only the specified gas service by use of indexes. A dust plug shall be provided to protect rough-in assembly from contamination during handling and installation.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All positive pressure gas outlets shall have a primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.

Dimensions



Dimensional Data Notes:

- Ohmeda compatible quick connect type latch valve shown
- 3/8" (9.5 mm) Nominal (1/2" O.D.) (12.7 mm) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle
- Inch (mm)
- Wall thickness 1/2" (12.7 mm) to 1" (12.5 mm)

Ordering Information

Ohmeda Compatible		
Gas Service	Cat No.	Pipe
Oxygen	3811U-O / 3811U-O-M	1/2" / ø10 real
Vacuum	3811U-V / 3811U-V-M	1/2" / ø10 real
Medical Air	3811U-A / 3811U-A-M	1/2" / ø10 real
Nitrous Oxide	3811E-2 / 3811E-2-M	1/2" / ø10 real
WAGD	3811U-W / 3811U-W-M	1/2" / ø10 real
Carbon Dioxide	--	
Nitrogen	--	
Instrument Air	--	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	ABS Plastic
ABS Plastic	ABS Plastic	
Steel/Brass+Plating	Neoprene	
Stainless Steel	Steel+Plating	
Brass	Copper	
Neoprene		
Rubber		

Ordering Information shows a Complete Console Outlet, including a Rough-in Assembly and a Latch Valve Assembly. Trim plate is optional.

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS CONSOLE OUTLET CHEMETRON® COMPATIBLE 90° TUBING

Features

- Accepts only Chemetron style gas specific adapters
- Indexed to prevent interchangeability of gas services
- 360° swivel inlet tube for easy installation
- Cleaned for oxygen service
- 100% leak tested
- Complies with NFPA 99



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®) in an ISO 9001 and ISO 13485 certified facility. Console outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific rough-in assembly, and a matching gas specific latch valve assembly, both cleaned for oxygen use in strict accordance with CGA G-4.1 and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly shall be Chemetron quick connect compatible, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can be easily converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed to the outlet body. Inlet tubing shall

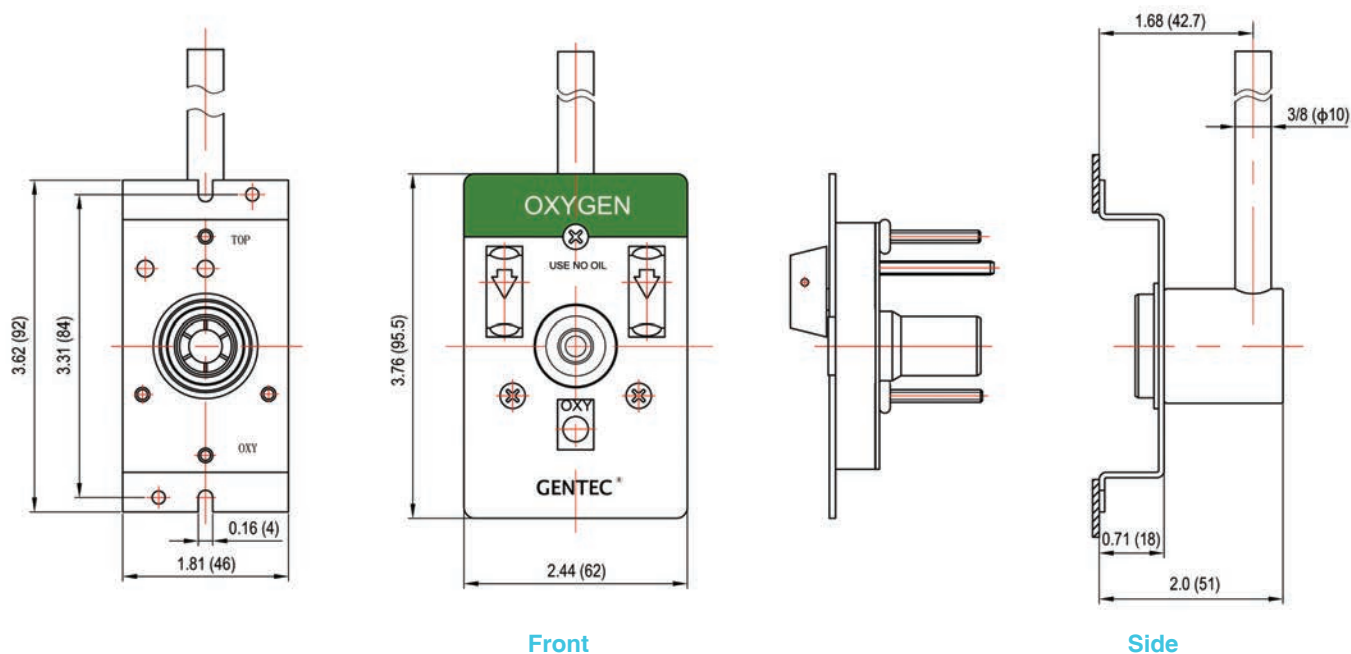
be type "K" copper, 1/2" O.D. (12.7 mm), extend 6-1/2 inches (165 mm) and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. A dust plug shall be provided to protect rough-in assembly from contamination during handling and installation.

The rough-in assembly shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All gas outlets shall have primary and secondary check valves, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL and CSA approved.

Dimensions



Dimensional Data Notes:

- Ohmeda compatible quick connect type latch valve shown
- 3/8" (9.5 mm) Nominal (1/2" O.D.) (12.7 mm) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle
- Inch (mm)
- Wall thickness 1/2" (12.7 mm) to 1" (12.5 mm)

Ordering Information

Chemetron Compatible		
Gas Service	Catalog Number	Quantity
Oxygen	3813U-O	
Vacuum	3813U-V	
Medical Air	3813U-A	
Nitrous Oxide	3813E-2	
WAGD	3813U-W	
Carbon Dioxide	--	
Nitrogen	--	
Instrument Air	--	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Aluminum+Coating
ABS Plastic	ABS Plastic	
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information shows a Complete Console Outlet, including a Rough-in Assembly and a Latch Valve Assembly. Trim plate is optional.

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS CONSOLE OUTLET DISS COMPATIBLE 90° TUBING

Features

- Accepts only DISS style gas specific adapters
- Indexed to prevent interchangeability of gas services
- Easy conversion of quick connection or DISS type latch valve assemblies
- 360° swivel inlet tube for easy installation
- Cleaned for oxygen service
- 100% leak tested
- Complies with NFPA 99

Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®) in an ISO 9001 and ISO 13485 certified facility. Console outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific rough-in assembly, and a matching gas specific latch valve assembly, both cleaned for oxygen use in strict accordance with CGA G-4.1 and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly have Compressed Gas Association (CGA) Diameter Index Safety System (DISS) threaded connector, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can be easily converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed to the outlet body. Inlet tubing shall

be type "K" copper, 1/2" O.D. (12.7 mm), extend 6-1/2 inches (165 mm) and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. A dust plug shall be provided to protect rough-in assembly from contamination during handling and installation.

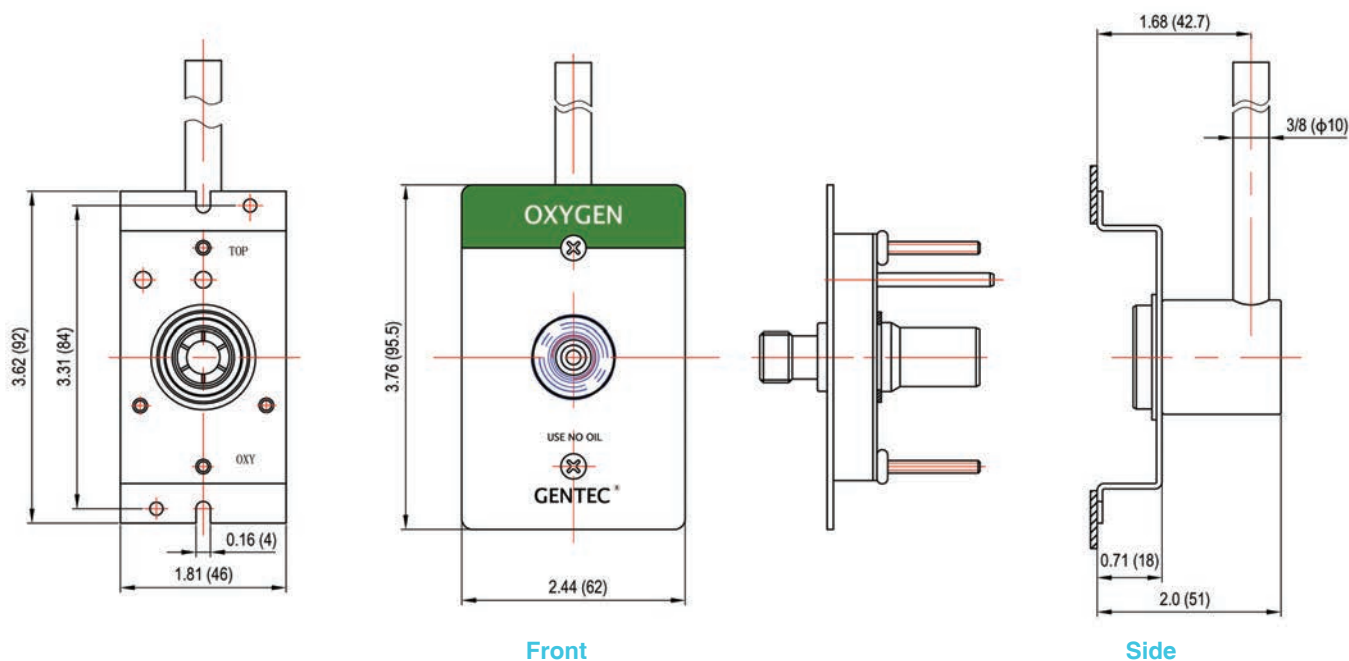
The rough-in assembly shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All gas outlets shall have primary and secondary check valves, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL and CSA approved.



Dimensions



Dimensional Data Notes:

- Ohmeda compatible quick connect type latch valve shown
- 3/8" (9.5 mm) Nominal (1/2" O.D.) (12.7 mm) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle
- Inch (mm)
- Wall thickness 1/2" (12.7 mm) to 1" (12.5 mm)

Ordering Information

DISS Standard		
Gas Service	Catalog Number	Quantity
Oxygen	3812U-O	
Vacuum	3812U-V	
Medical Air	3812U-A	
Nitrous Oxide	3812E-2	
WAGD	3812U-W	
Carbon Dioxide	3812E-C	
Nitrogen	3812E-N	
Instrument Air	3812U-1	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Aluminum+Coating
ABS Plastic	ABS Plastic	
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information shows a Complete Console Outlet, including a Rough-in Assembly and a Latch Valve Assembly. Trim plate is optional.

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS CONSOLE OUTLET PURITAN-BENNETT® COMPATIBLE 90° TUBING

Features

- Accepts Ohmeda®, Chemetron® or Puritan-Bennett® quick connect and DISS gas specific adapters
- Indexed to prevent interchangeability of gas services
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®) Console outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific rough-in assembly, and a matching gas specific latch valve assembly, both cleaned for oxygen use and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly shall be Ohmeda, Chemetron or Puritan-Bennett quick connect compatible, or have Compressed Gas Association (CGA) Diameter Index Safety System (DISS) threaded connector, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can easily be converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed to the outlet body. Inlet tubing shall

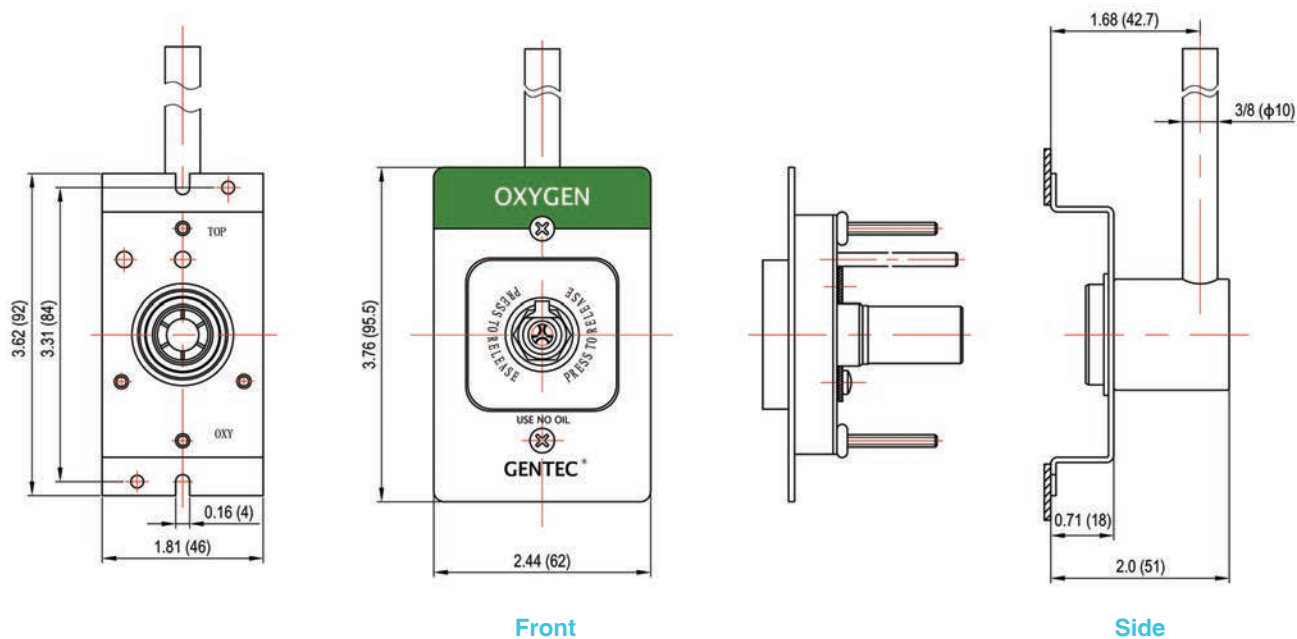
be type "K" copper, 1/2" O.D. (12.7 mm), extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. A dust plug shall be provided to protect rough-in assembly from contamination during handling and installation.

The rough-in assembly shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All gas outlets shall have primary and secondary check valves, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL and CSA approved.

Dimensions



Dimensional Data Notes:

- Ohmeda compatible quick connect type latch valve shown
- 3/8" (9.5 mm) Nominal (1/2" O.D.) (12.7 mm) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle
- Inch (mm)
- Wall thickness 1/2" (12.7 mm) to 1" (12.5 mm)

Ordering Information

Puritan-Bennett Compatible		
Gas Service	Catalog Number	Quantity
Oxygen	3814U-O	
Vacuum	3814U-V	
Medical Air	3814U-A	
Nitrous Oxide	3814E-2	
WAGD	3814U-W	
Carbon Dioxide	--	
Nitrogen	--	
Instrument Air	--	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Aluminum+Coating
ABS Plastic	ABS Plastic	
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information shows a Complete Console Outlet, including a Rough-in Assembly and a Latch Valve Assembly. Trim plate is optional.

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS WALL OUTLET QUICK CONNECT OHMEDA® COMPATIBLE

Features

- Accepts only Ohmeda® gas specific adapters
- Indexed to prevent interchangeability of gas services
- Universal rough-in accepts quick connection (Chemetron®, Ohmeda®, Puritan-Bennett®) or DISS latch valve assemblies
- Modular design capability
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Wall outlet shall be designed for concealed piping installation and available for services indicated.

The latch valve assembly shall be Ohmeda quick connect compatible and accept only gas specific Ohmeda type quick connect adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services and shall adjust up to 1" for variations in wall thickness.

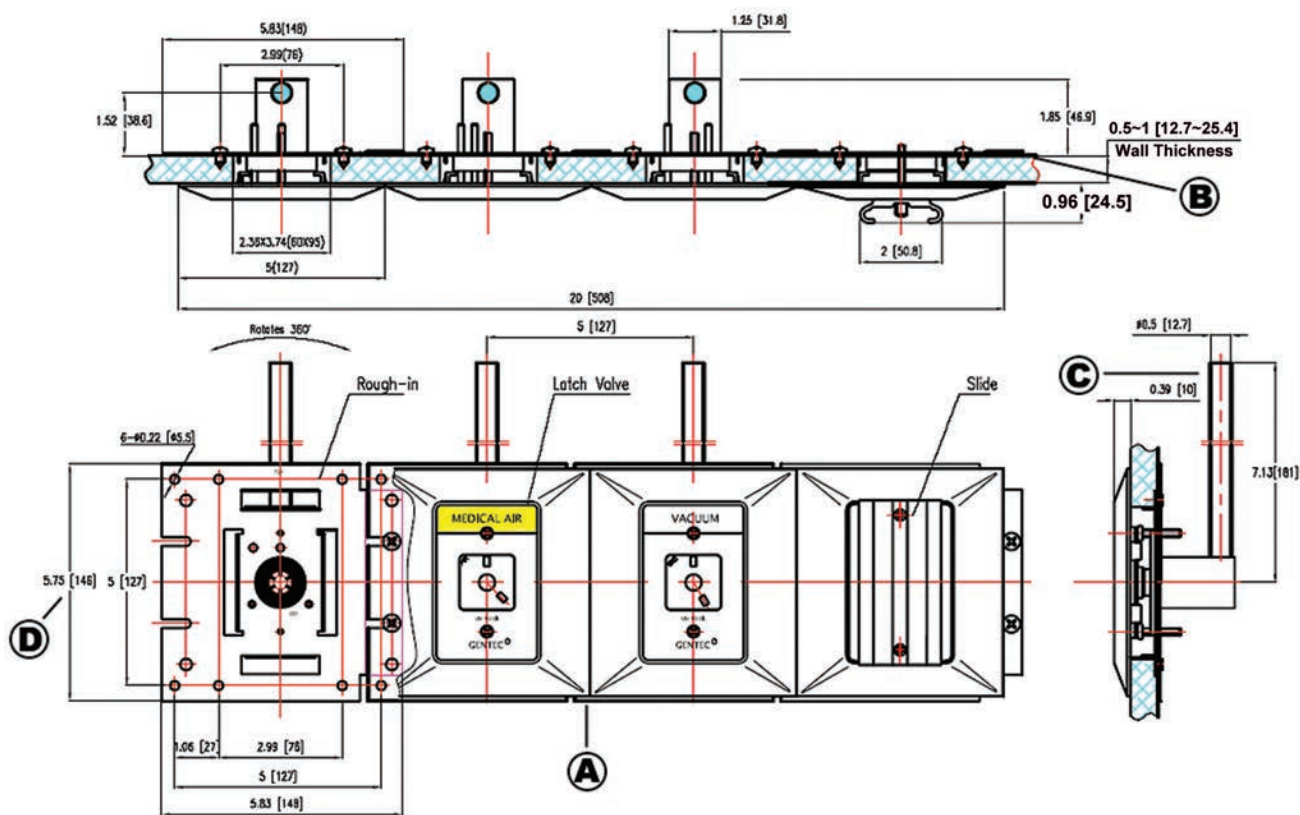
Universal rough-in assembly shall include the wall rough-in plate (16 ga.) with inlet tubing silver brazed to the outlet body. Inlet tubing shall be type "K" copper, 1/2" (12.7 mm) OD, extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. Rough-in assembly shall be of modular design to permit on-site ganging of multiple outlets with assurance of accurate alignment and providing 5" centerline spacing. A dust plug and cover shall be provided to protect rough-in assembly from contamination during handling and installation at the job site.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas system.

All positive pressure gas outlets shall have a primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

Complete outlet shall be delivered to the customer in a gas specific rough-in assembly, a matching gas specific latch valve assembly, both cleaned for oxygen use and in a sealed package, and a trim plate. All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.

Dimensions



Dimensional Data Notes:

- A. Additional support needed if ganging more than 3 outlets
- B. Wall thickness may vary from 1/2" to 1" (12.7 mm to 25.4 mm)
- C. 1/2" O.D. (3/8" Nominal) type K cooper inlet tube allows 360° swivel on outlet body for entry from any angle
- D. Inch (mm)

Ordering Information

Ohmeda Compatible		
Gas Service	Catalog Number	Quantity
Oxygen	3821U-O	
Vacuum	3821U-V	
Medical Air	3821U-A	
Nitrous Oxide	3821E-2	
WAGD	3821U-W	
Slide	3820-SLD	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Cast Aluminum
Zinc Alloy	ABS Plastic	Powder Coating
ABS Plastic		
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information for Complete Wall Outlets, (Includes Rough-in, Trim Plate and Latch Valve Assembly)

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS WALL OUTLET QUICK CONNECT CHEMETRON® COMPATIBLE

Features

- Accepts only Chemetron® gas specific adapters
- Indexed to prevent interchangeability of gas services
- Universal rough-in accepts quick connection (Chemetron®, Ohmeda®, Puritan-Bennett®) or DISS latch valve assemblies
- Modular design capability
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Wall outlet shall be designed for concealed piping installation and available for services indicated.

The latch valve assembly shall be Chemetron quick connect compatible and accept only gas specific Chemetron type quick connect adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services and shall adjust up to 1" for variations in wall thickness.

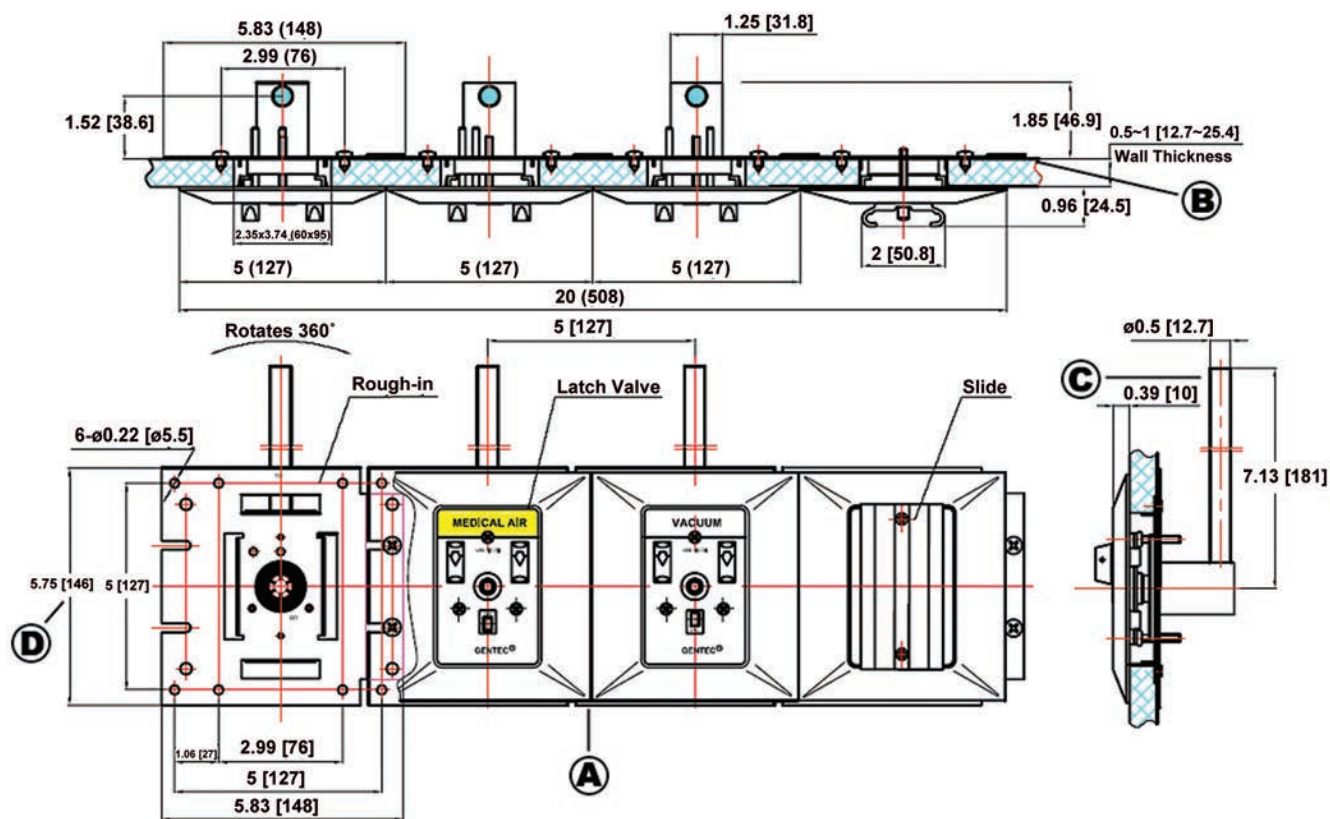
Universal rough-in assembly shall include the wall rough-in plate (16 ga.) with inlet tubing silver brazed to the outlet body. Inlet tubing shall be type "K" copper, 1/2" (12.7 mm) OD, extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. Rough-in assembly shall be of modular design to permit on-site ganging of multiple outlets with assurance of accurate alignment and providing 5" centerline spacing. A dust plug and cover shall be provided to protect rough-in assembly from contamination during handling and installation at the job site.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas system.

All positive pressure gas outlets shall have a primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

Complete outlet shall be delivered to the customer in a gas specific rough-in assembly, a matching gas specific latch valve assembly, both cleaned for oxygen use and in a sealed package, and a trim plate. All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.

Dimensions



Dimensional Data Notes:

- A. Additional support needed if ganging more than 3 outlets
- B. Wall thickness may vary from 1/2" to 1" (12.7 mm to 25.4 mm)
- C. 1/2" O.D. (3/8" Nominal) type K cooper inlet tube allows 360° swivel on outlet body for entry from any angle
- D. Inch (mm)

Ordering Information

Chemetron Compatible		
Gas Service	Catalog Number	Quantity
Oxygen	3823U-O	
Vacuum	3823U-V	
Medical Air	3823U-A	
Nitrous Oxide	3823E-2	
WAGD	3823U-W	
Slide	3820-SLD	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Cast Aluminum
Zinc Alloy	ABS Plastic	Powder Coating
ABS Plastic		
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information for Complete Wall Outlets, (Includes Latch Valve Assembly, Trim Plate and Rough-in Assembly)

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS WALL OUTLET DISS (Diameter Index Safety System)

Features

- Accepts only DISS gas specific adapters
- Indexed to prevent interchangeability of gas services
- Universal rough-in accepts quick connection (Chemetron®, Ohmeda®, Puritan-Bennett®) or DISS latch valve assemblies
- Modular design capability
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Wall outlet shall be designed for concealed piping installation and available for services indicated.

The latch valve assembly shall be Compressed Gas Association (CGA) Diameter Index Safety System (DISS) threaded connectors and accept only gas specific type nut and nipple adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services and shall adjust up to 1" for variations in wall thickness.

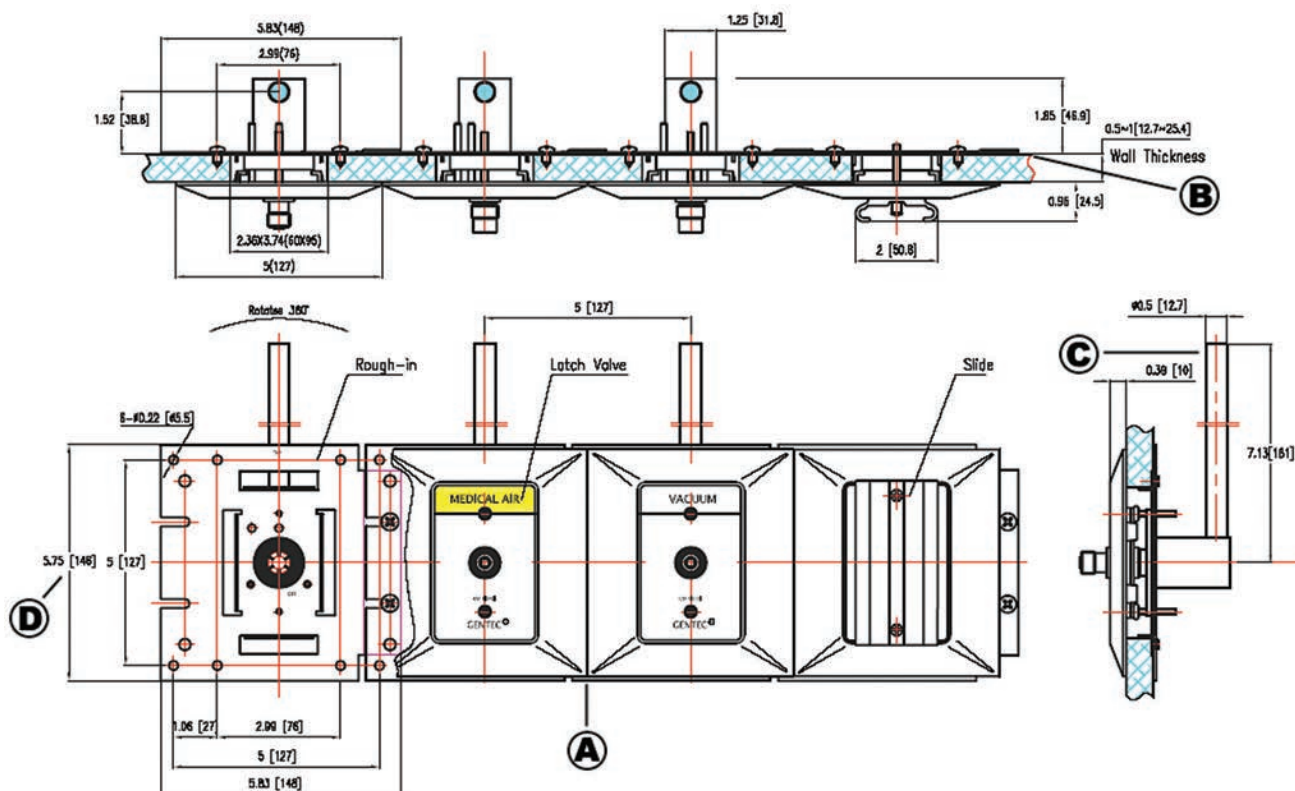
Universal rough-in assembly shall include the wall rough-in plate (16 ga.) with inlet tubing silver brazed to the outlet body. Inlet tubing shall be type "K" copper, 1/2" (12.7 mm) OD, extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. Rough-in assembly shall be of modular design to permit on-site ganging of multiple outlets with assurance of accurate alignment and providing 5" centerline spacing. A dust plug and cover shall be provided to protect rough-in assembly from contamination during handling and installation at the job site.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All positive pressure gas outlets shall have a primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

Complete outlet shall be delivered to the customer in a gas specific rough-in assembly, a matching gas specific latch valve assembly, both cleaned for oxygen use and in a sealed package, and a trim plate. All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.

Dimensions



Dimensional Data Notes:

- A. Additional support needed if ganging more than 3 outlets
- B. Wall thickness may vary from 1/2" to 1" (12.7 mm to 25.4 mm)
- C. 1/2" O.D. (3/8" Nominal) type K cooper inlet tube allows 360° swivel on outlet body for entry from any angle
- D. Inch (mm)

Ordering Information

DISS Standard		
Gas Service	Catalog Number	Quantity
Oxygen	3822U-O	
Vacuum	3822U-V	
Medical Air	3822U-A	
Nitrous Oxide	3822E-2	
WAGD	3822U-W	
Carbon Dioxide	3822E-C	
Nitrogen	3822E-N	
Slide	3820-SLD	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Cast Aluminum
ABS Plastic	ABS Plastic	Powder Coating
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information for Complete Wall Outlets, (Includes Latch Valve Assembly, Trim Plate and Rough-in Assembly)

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.



MEDICAL GAS WALL OUTLET QUICK CONNECT PURITAN-BENNETT® COMPATIBLE

Features

- Accepts only Puritan-Bennett® gas specific adapters
- Indexed to prevent interchangeability of gas services
- Universal rough-in accepts quick connection (Chemetron®, Ohmeda®, Puritan-Bennett®) or DISS latch valve assemblies
- Modular design capability
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Wall outlet shall be designed for concealed piping installation and available for services indicated.

The latch valve assembly shall be Puritan-Bennett quick connect compatible and accept only gas specific Puritan-Bennett type quick connect adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services and shall adjust up to 1" for variations in wall thickness.

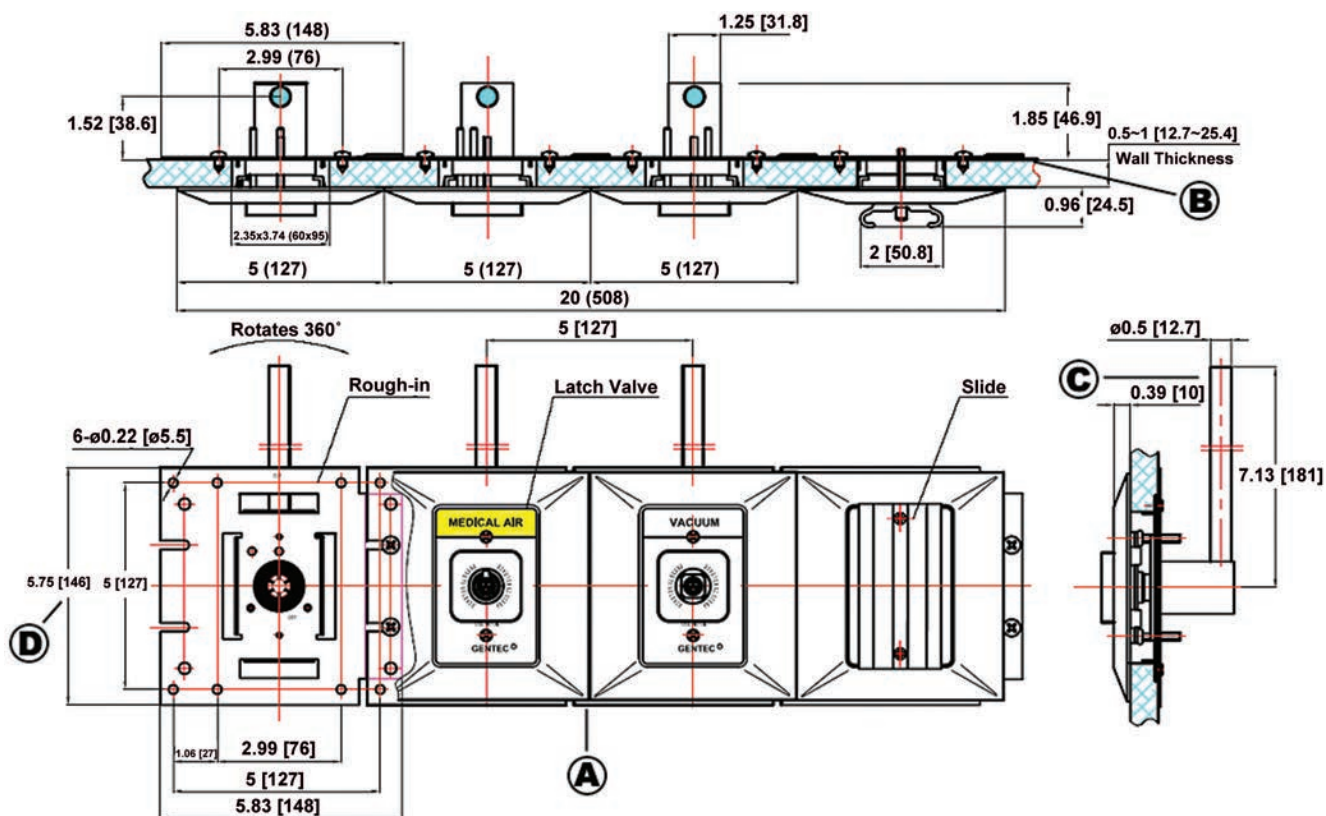
Universal rough-in assembly shall include the wall rough-in plate (16 ga.) with inlet tubing silver brazed to the outlet body. Inlet tubing shall be type "K" copper, 1/2" (12.7 mm) OD, extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. Rough-in assembly shall be of modular design to permit on-site ganging of multiple outlets with assurance of accurate alignment and providing 5" centerline spacing. A dust plug and cover shall be provided to protect rough-in assembly from contamination during handling and installation at the job site.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas system.

All positive pressure gas outlets shall have a primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

Complete outlet shall be delivered to the customer in a gas specific rough-in assembly, a matching gas specific latch valve assembly, both cleaned for oxygen use and in a sealed package, and a trim plate. All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.

Dimensions



Dimensional Data Notes:

- A. Additional support needed if ganging more than 3 outlets
- B. Wall thickness may vary from 1/2" to 1" (12.7 mm to 25.4 mm)
- C. 1/2" O.D. (3/8" Nominal) type K cooper inlet tube allows 360° swivel on outlet body for entry from any angle
- D. Inch (mm)

Ordering Information

Puritan-Bennett Compatible		
Gas Service	Catalog Number	Quantity
Oxygen	3824U-O	
Vacuum	3824U-V	
Medical Air	3824U-A	
Nitrous Oxide	3824E-2	
WAGD	3824U-W	
Slide	3820-SLD	

Material

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	Cast Aluminum
Zinc Alloy	ABS Plastic	Powder Coating
ABS Plastic		
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

Ordering Information for Complete Wall Outlets, (Includes Latch Valve Assembly, Trim Plate and Rough-in Assembly)

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS DISS CEILING OUTLET

Features

- Accepts Ohmeda®, Chemetron® or Puritan-Bennett® quick connect and DISS gas specific adapters
- Indexed to prevent interchangeability of gas services
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). DISS ceiling outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific latch valve assembly, and a matching gas specific rough-in assembly, both cleaned for oxygen use and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly shall be Ohmeda, Chemetron or Puritan-Bennett quick connect compatible, or have Compressed Gas Association (CGA) Diameter Index Safety System (DISS) threaded connector, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can be easily converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed at 180 degrees to the outlet body. Inlet tubing shall be type "K" copper, 1/2" O.D. (12.7 mm), and extend 6-1/2 inches (165 mm).

Rough-in assembly shall accept only the specified gas service by use of indexes. A dust plug shall be provided to protect rough-in assembly from contamination during handling and installation.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All positive pressure gas outlets shall have a primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.



Ohmeda Compatible		
Gas Service	Catalog Number	Pipe
Oxygen	3842U-O	1/2" / φ 10 real
Vacuum	3842U-V	1/2" / φ 10 real
Medical Air	3842U-A	1/2" / φ 10 real
Nitrous Oxide	3842E-2	1/2" / φ 10 real
WAGD	3842U-W	1/2" / φ 10 real

Latch Valve	Rough-in	Trim Plate
Aluminum	Stainless Steel	ABS Plastic
ABS Plastic	ABS Plastic	
Steel/Brass+Plating		
Stainless Steel		
Brass		
Neoprene		
Rubber		

MEDICAL GAS CONSOLE OUTLET 90 DEGREE DISS (Diameter Index Safety System)

Features

- Accepts Ohmeda®, Chemetron® or Puritan-Bennett® quick connect and DISS gas specific adapters
- Indexed to prevent interchangeability of gas services
- Easy conversion of quick connection or DISS type latch valve assemblies
- 360° swivel inlet for easy installation
- Cleaned for oxygen service
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Console outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific rough-in assembly, and a matching gas specific latch valve assembly, both cleaned for oxygen and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly shall be Ohmeda, Chemetron or Puritan-Bennett quick connect compatible, or have Compressed Gas Association (CGA) Diameter Index Safety System (DISS) threaded connector, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can easily be converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) and gas inlet silver brazed to the outlet body. Inlet shall be a gas

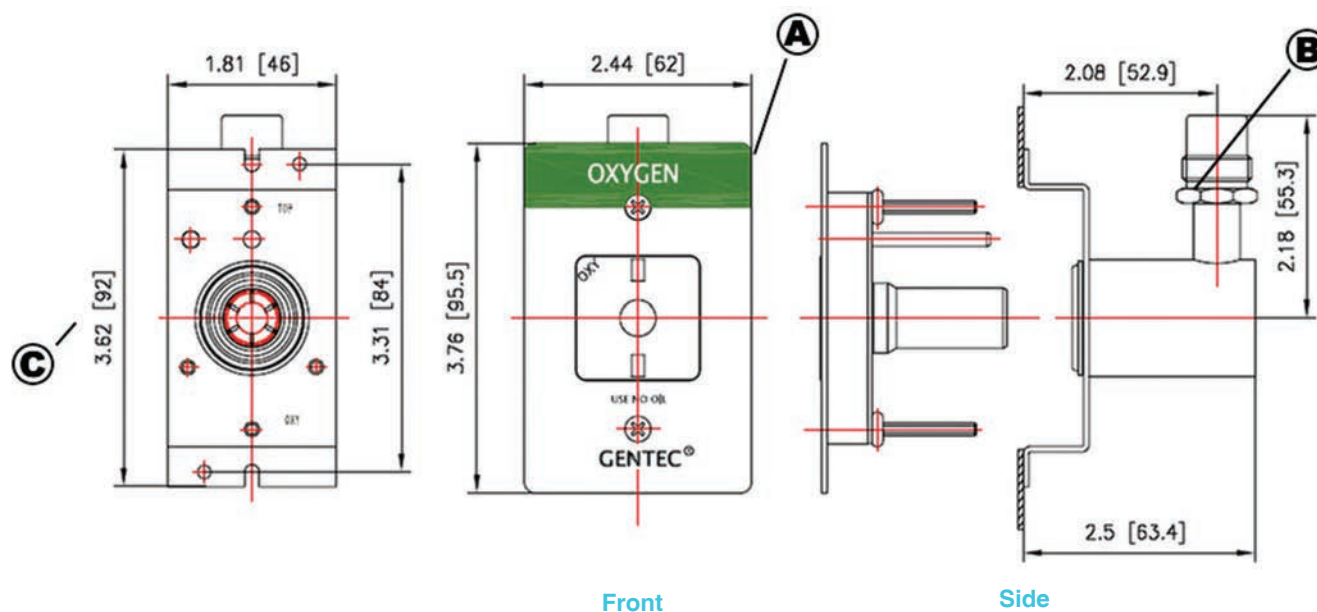
specific DISS connection extending 1-1/2 inches (38 mm), and swivel 360° for ease of installation.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All positive pressure gas outlets shall have primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.

Dimensions



Dimensional Data Notes:

- A. Ohmeda compatible quick connect type latch valve shown
 B. DISS connection inlet allows 360° swivel on outlet body for entry from any angle
 C. Inch (mm)

Material

Latch Valve	Rough-in	Trim Plate
Aluminum ABS Plastic Steel/Brass+Plating Stainless Steel Brass Neoprene Rubber	Stainless Steel ABS Plastic	Aluminum+Coating

Ordering Information

	Ohmeda Compatible		DISS Standard		Chemetron Compatible		Puritan-Bennett Compatible		Rough-in Only	
Gas Service	Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty	Catalog Number		Catalog Number	Qty
Oxygen	3851U-O		3852U-O		3853U-O		3854U-O		3850U-O	
Vacuum	3851U-V		3852U-V		3853U-V		3854U-V		3850U-V	
Medical Air	3851U-A		3852U-A		3853U-A		3854U-A		3850U-A	
Nitrous Oxide	3851E-2		3852E-2		3853E-2		3854E-2		3850E-2	
WAGD	3851U-W		3852U-W		3853U-W		3854U-W		3850U-W	
Carbon Dioxide	--		3852E-C		--		--		3850E-C	
Nitrogen	--		3852E-N		--		--		3850E-N	
Instrument Air	--		3852U-I		--		--		3850U-I	
Trim Plate	3900A-11		3900A-11		3900A-11		3900A-11		3900A-11	

Ordering Information shows a Complete Console Outlet, including a Rough-in Assembly and a Latch Valve Assembly. Trim plate is optional.

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

MEDICAL GAS CONSOLE OUTLET 90 DEGREE HOSE BARB

Features

- Accepts Ohmeda®, Chemetron® or Puritan-Bennett® quick connect and DISS gas specific adapters
- Indexed to prevent interchangeability of gas services
- 360° swivel inlet for easy installation
- Cleaned for oxygen service
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards



Specifications

Medical gas outlet(s) shall be manufactured by Genstar Technologies Co., Inc. (GENTEC®). Console outlet shall be designed for concealed piping installation and available for gas services indicated.

Outlets shall be delivered to the customer in a gas specific rough-in assembly, and a matching gas specific latch valve assembly, both cleaned for oxygen use and in sealed packages. Optional trim plates can be provided to trim each outlet assembly and allow latch valve to be individually removed for servicing.

The latch valve assembly shall be Ohmeda, Chemetron or Puritan-Bennett quick connect compatible, or have Compressed Gas Association (CGA) Diameter Index Safety System (DISS) threaded connector, and accept only corresponding gas specific type adapters. Each latch valve assembly shall be color-coded for ease of gas identification per the appropriate standards (US or ISO). Latch valve assemblies shall have gas specific pin indexing corresponding to the rough-in assembly to prevent interchangeability of gas services. Outlets can easily be converted from one adapter type to another by replacing the latch valve assembly with another of the same gas service.

Universal rough-in assembly shall include a rough-in plate (16 ga.) and gas inlet silver brazed to the outlet body. Inlet shall be a hose

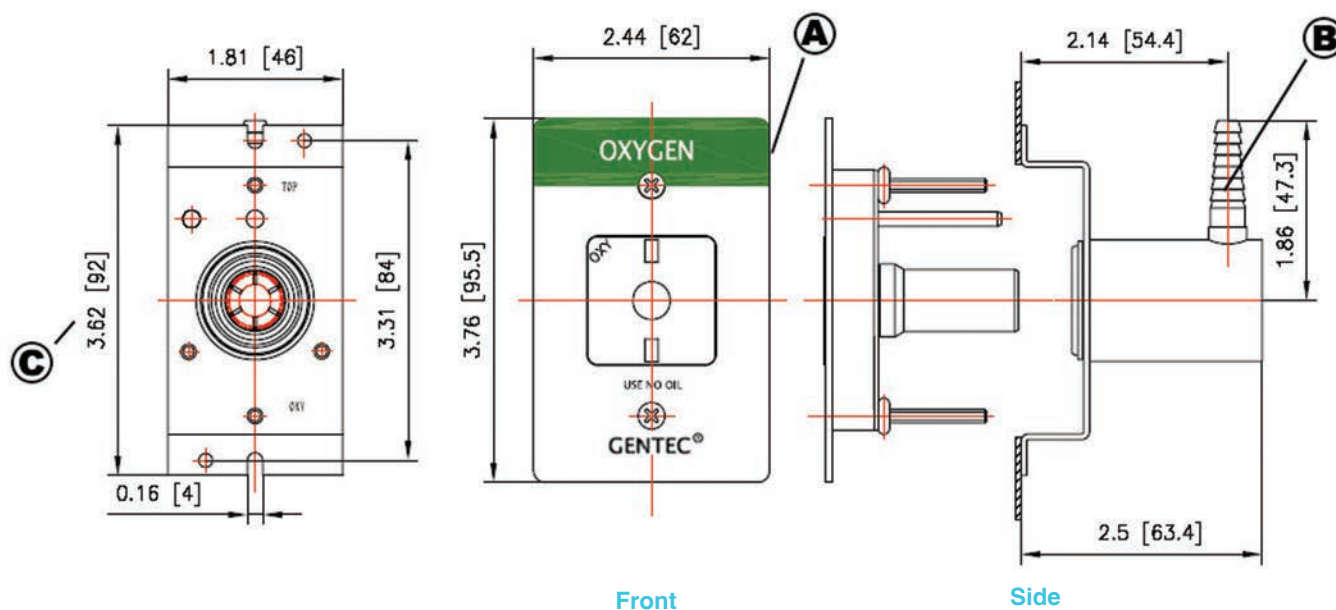
barb fitting extending 1-1/4 inches (32 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified gas service by use of indexes. A dust plug shall be provided to protect rough-in assembly from contamination during and handling and installation.

Rough-in assemblies shall accept any latch valve assembly of the same gas service. The latch valve assembly shall be interchangeable, allowing conversion from one connection style to another without shutting down the medical gas piping system.

All positive pressure gas outlets shall have primary and secondary check valve, where the secondary valve in the rough-in assembly allows servicing of the latch valve assembly without having to disrupt gas service to the outlet.

All assemblies shall be 100% tested for leaks, manufactured to comply with the latest edition of NFPA 99, and UL Listed.

Dimensions



Dimensional Data Notes:

- A. Ohmeda compatible quick connect type latch valve shown
 B. Hose barb connection inlet allows 360° swivel on outlet body for entry from any angle
 C. Inch (mm)

Material

Latch Valve	Rough-in	Trim Plate
Aluminum ABS Plastic Steel/Brass+Plating Stainless Steel Brass Neoprene Rubber	Stainless Steel ABS Plastic	Aluminum+Coating

Ordering Information

	Ohmeda Compatible		DISS Standard		Chemtron Compatible		Puritan-Bennett Compatible		Rough-in Only	
Gas Service	Catalog Number	Qty	Catalog Number	Qty	Catalog Number	Qty	Catalog Number		Catalog Number	Qty
Oxygen	3861U-O		3862U-O		3863U-O		3864U-O		3860U-O	
Vacuum	3861U-V		3862U-V		3863U-V		3864U-V		3860U-V	
Medical Air	3861U-A		3862U-A		3863U-A		3864U-A		3860U-A	
Nitrous Oxide	3861E-2		3862E-2		3863E-2		3864E-2		3860E-2	
WAGD	3861U-W		3862U-W		3863U-W		3864U-W		3860U-W	
Carbon Dioxide	--		3862E-C		--		--		3860E-C	
Nitrogen	--		3862E-N		--		--		3860E-N	
Instrument Air	--		3862U-I		--		--		3860U-I	
Trim Plate	3900A-11		3900A-11		3900A-11		3900A-11		3900A-11	

Ordering Information shows a Complete Console Outlet, including a Rough-in Assembly and a Latch Valve Assembly. Trim plate is optional.

Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.



SLIDE BRACKET WALL AND CONSOLE

Features

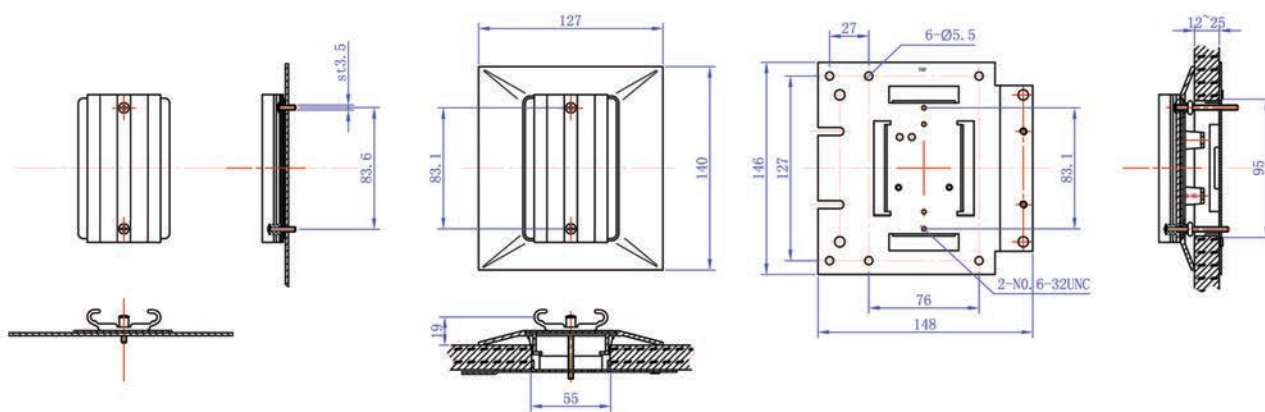
- For use on all surfaces
- Fits reuseable and disposable bottle brackets

Ordering Information

Model	Description
3910-Sld	Slide Bracket for Console
3820-Sld	Slide Bracket for Wall



Dimensions units in millimeter(s)



Assembly Chart





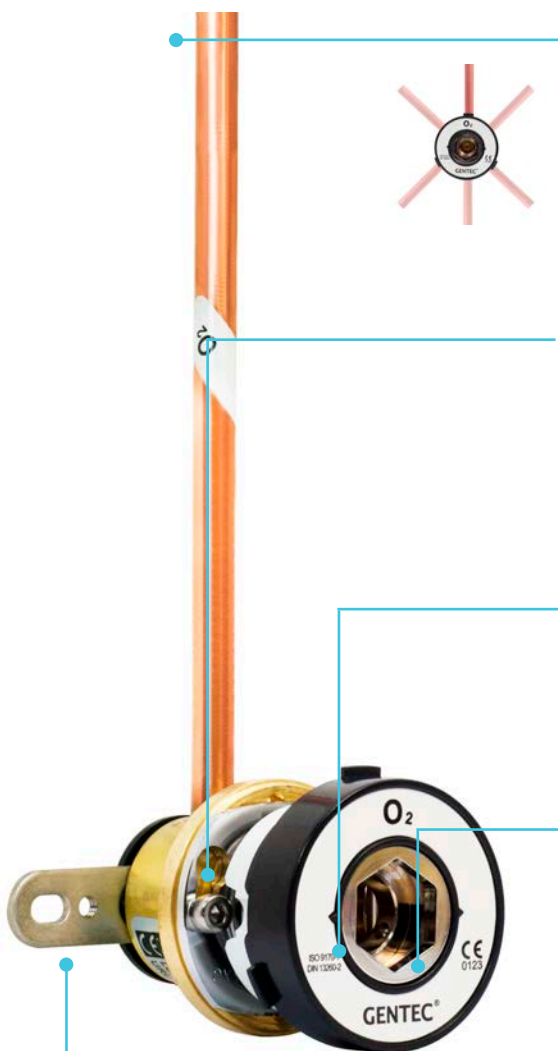
French, German, British, Japanese Medical Gas Outlets

38X5, 38X6, 38X7, 38X8 Series

- Color-coded for easy gas service identification
- Modular structure, convenient maintenance
- A variety of installation, easy to use
- 100% tested and individually packaged
- French Standard is compliant with ISO 9170-1 and NFS 90 116
- German (DIN) Gas Outlet is CE listed and compliant with EN ISO 9170-1 and DIN 13620-2
- British Standard is CE listed and compliant with HTM 02-01, ISO 9170-1 and BS 5682-1998
- Japanese Standard is compliant with ISO 9170-1 and JIST 7101

Specifications

GENTEC® gas outlets are designed for delivery of medical gas from a central pipeline system. These outlets are 100% individually tested for leaks to ensure safety. The outlets are designed with safety in mind and comply fully with ISO 9170-1.



The Inlet Pipe

- Base block allows for the inlet pipe to be installed in 6 different directions for ease of installation
- Multiple connections available:
90° tubing, 180° tubing,
90° hose barb, 180° hose barb,
90° M14 thread, 180° M14 thread

Body

- Durable high quality forged brass body
- The sealing ring can be replaced without interrupting gas service to other outlets
- Wetted area of the body is brass for longevity and durability

Gas Specific Indexing

- Prevents interchanging of gas service
- Gas Specific Indexing made of brass construction for durability

Pressure Lid

- Manufactured from high quality plastic
- Uses color code for differentiating gas service
- Manufactured from high quality anodized aluminum topped with a protective clear plastic to prevent gas identification label from damage or removal

Base Block

- High quality forged brass



French Standard



German Standard



British Standard



Japanese Standard



Console



Installation Bracket



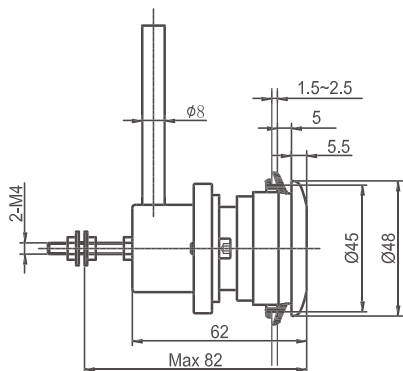
Flush Mount



Surface Mount

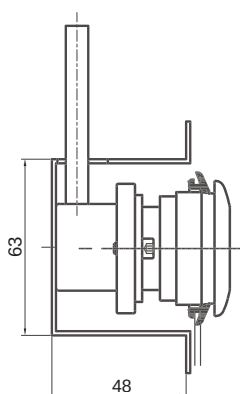
Dimensions (Round-faced Pressure Lid) units in millimeter(s)

Side



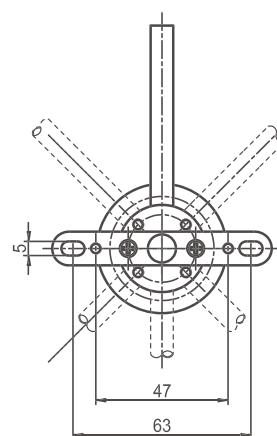
90° Tubing

Side

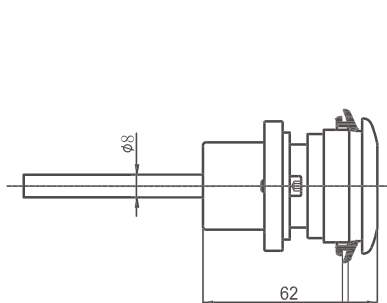


90° Tubing with Installation Bracket

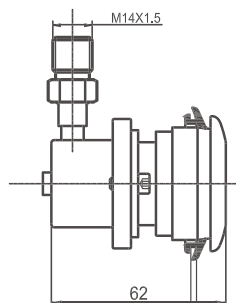
Back



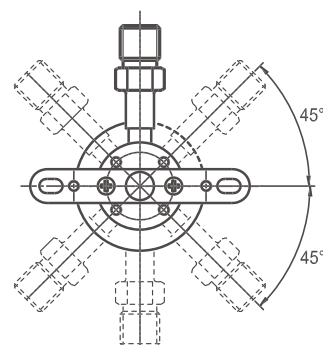
90° Tubing with Console Plate



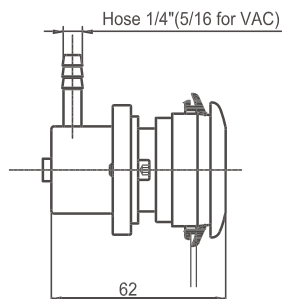
180° Tubing



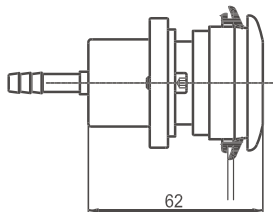
90° M14 Thread



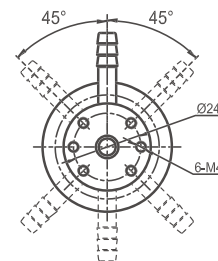
90° M14 Thread with Console Plate



90° Hose Barb

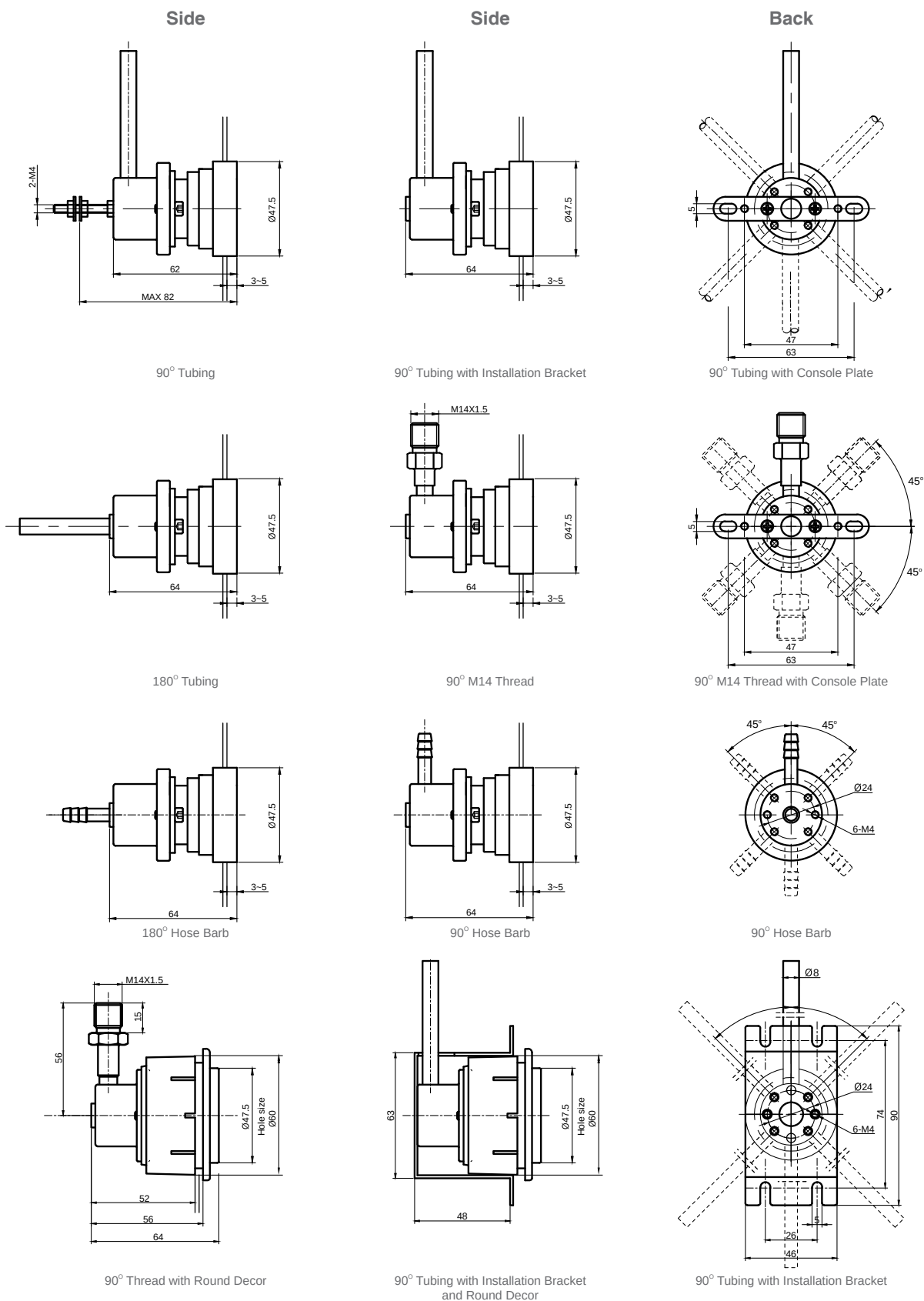


180° Hose Barb



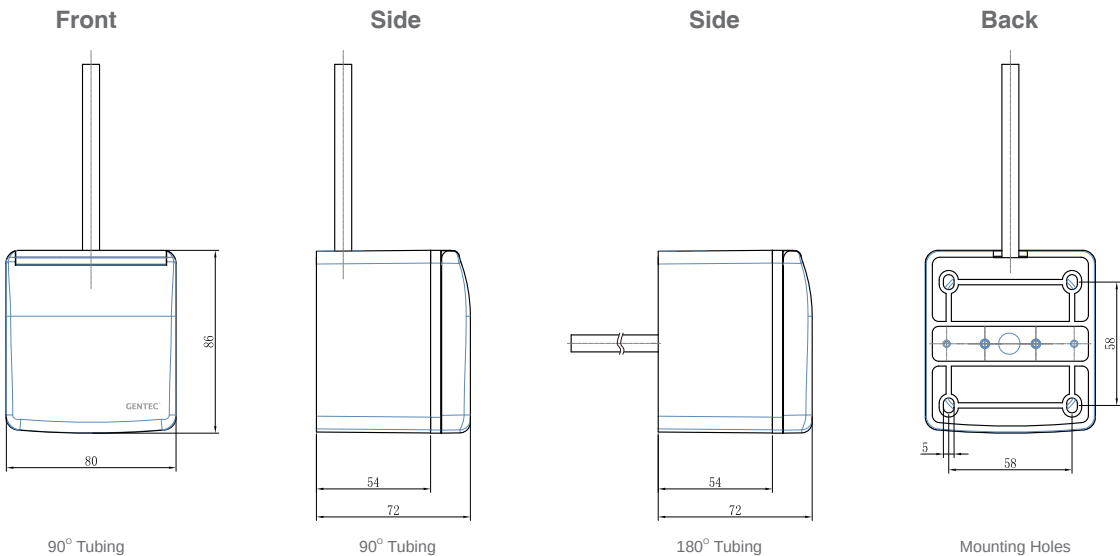
90° Hose Barb

Dimensions (Flat-faced Pressure Lid) units in millimeter(s)

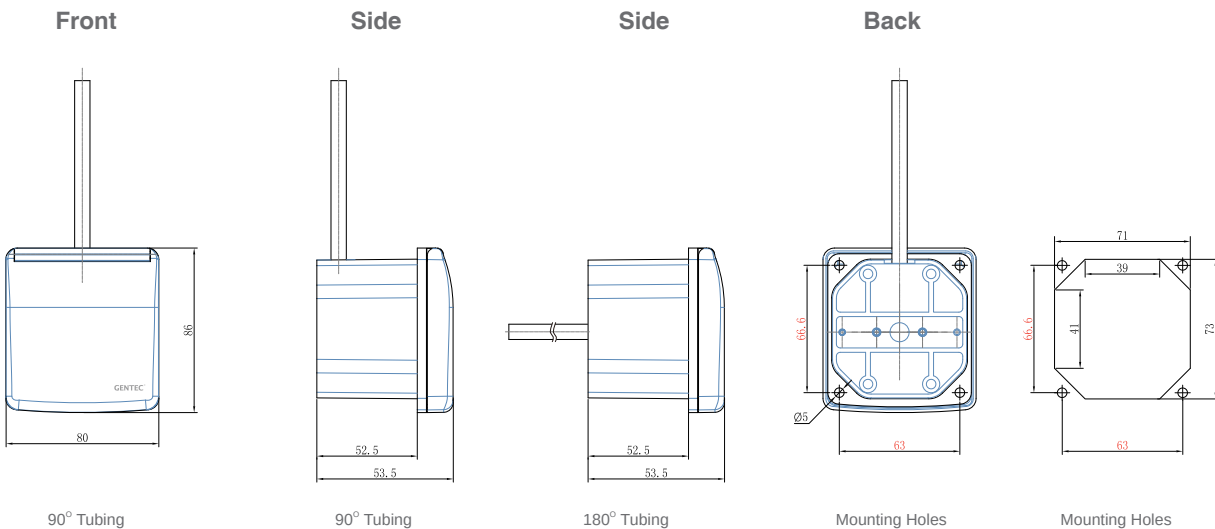


Dimensions units in millimeter(s)

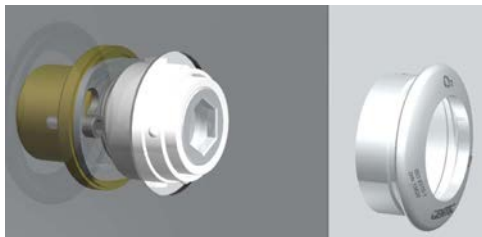
Surface Mount



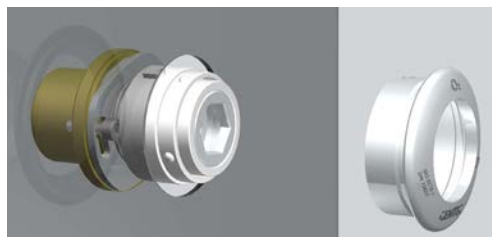
Flush Mount



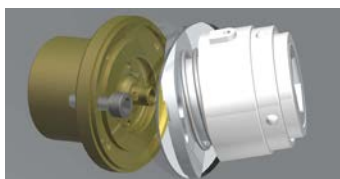
Repair Schematics (Round-faced Pressure Lid)



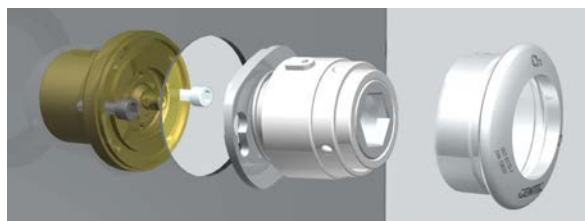
1. Pull the pressure lid off



2. Loosen the two retaining bolts 2-3 mm

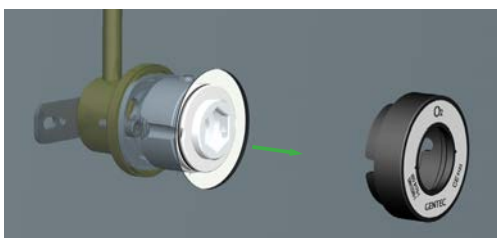


3. Pull out the body at an angle

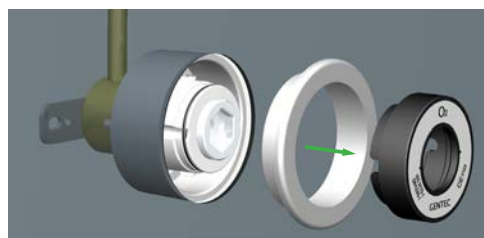


4. Replace the sealing ring without disassembling the panel mount

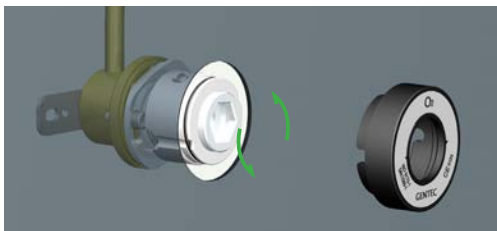
Repair Schematics (Flat-faced Pressure Lid)



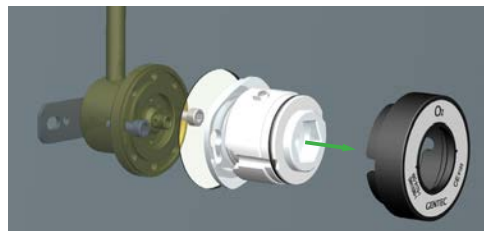
1. Pull the pressure lid off



1A. Pull the pressure lid and the decor off



2. Loosen the two retaining bolts 2-3 mm
Pull out the body at an angle



3. Replace the sealing ring without disassembling the panel mount

Ordering Information (Console Type)

381	6	-	V	-	S	P08	-	P	/	C	(VII)
Series	Type		Gas Service		Inlet Direction	Inlet Connection		Lid Type		Type of Mounting	Version Number
	5: FSO 6: GSO 7: BSO 8: JSO		O: Oxygen V: Vacuum A: Air (400 kPa) 2: N ₂ O C: CO ₂ * N: N ₂ -800* A8: Air-800*		S: 90° R: 180°	P08: 8 mm O.D. Tubing P10: 10 mm O.D. Tubing P12: Straight, O.D. of 12mm HB4: 1/4" Hose Barb HB5: 5/16" Hose Barb M14: M14 X 1.5 VCR Thread		S: Round-faced pressure lid P: Flat-faced pressure lid P1: Flat-faced pressure lid with square decor		C: With console plate B: With installation bracket	

*: Please ask GENTEC or your local distributor for availability.

Type of Mounting	Configuration	Type of Mounting	Configuration
S / C	 Round-faced pressure lid, console type with console plate	S / B	 Round-faced pressure lid, console type with installation bracket
P / C	 Flat-faced pressure lid, console type with console plate	P / B	 Flat-faced pressure lid, console type with installation bracket
P1 / C	 Flat-faced pressure lid with round decor, console type with console plate	P1 / B	 Flat-faced pressure lid with round decor, console type with installation bracket

Ordering Information (Wall Type)

382	6 -	V -	S	P08 -	P /	F	(VII)
Series	Type	Gas Service	Inlet Direction	Inlet Connection	Lid Type	Type of Mounting	Version Number
	5: FSO 6: GSO 7: BSO 8: JSO	O: Oxygen V: Vacuum A: Air (400 kPa) 2: N ₂ O C: CO ₂ * N: N ₂ -800* A8: Air-800*	S: 90° R: 180°	P08: 8 mm O.D. Tubing P10: 10 mm O.D. Tubing P12: Straight, O.D. of 12mm HB4: 1/4" Hose Barb HB5: 5/16" Hose Barb M14: M14 X 1.5 VCR Thread	S: Round-faced pressure lid P: Flat-faced pressure lid P1: Flat-faced pressure lid with square decor	F: Flush Mount W: Surface Mount	

*: Please ask GENTEC or your local distributor for availability.

Type of Mounting	Configuration	Type of Mounting	Configuration
S / F	 Round-faced pressure lid, wall type, flush mount with protective cover	S / W	 Round-faced pressure lid, wall type, surface mount with protective cover
P / F	 Flat-faced pressure lid, wall type, flush mount with protective cover	P / W	 Flat-faced pressure lid, wall type, surface mount with protective cover
P1 / F	 Flat-faced pressure lid with square decor, wall type, flush mount	P1 / W	 Flat-faced pressure lid with square decor, wall type, surface mount

3826E Series Genman Outlets (Old Type)



Flush Mount



Surface Mount

Ordering Information

3826E	- O	- W
Series	Gas Service	Installation
3826E	O: Oxygen V: Vacuum A: Air (400 kPa) 2: N ₂ O W: WAGD (ISO 9170-2 TYPE II) C: CO ₂ * N: N ₂ -800* A8: Air-800*	None: Flush Mount W: Surface Mount

*: Please ask GENTEC or your local distributor for availability.

Installation	Configuration	Installation	Configuration
Flush Mount		Surface Mount	



Genstar Technologies Company Inc.

4525 Edison Avenue, Chino, CA 91710, USA

Tel: 909-606-2726

Fax: 909-606-6485

www.gentechealthcare.com

