GENTEC®
GENSTAR TECHNOLOGIES

5500M SERIES MEDICAL AUTOMATIC MANIFOLD SYSTEMS

GENTEC® 5500M 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 compliant with NFPA 99 and ISO 7396, HTM 02-01 is optional.

FEATURES

Automatic Changeover System

- Fully enclosed, tamper-resistant metal cabinet.
- Stainless steel diaphragm regulator ensures steady gas flow.
- LED indicators provide system status ("IN USE"-green, "READY"-yellow, "EMPTY"-red).
- Patent pending changeover technology.
- Integral alarm. Remote alarm available.

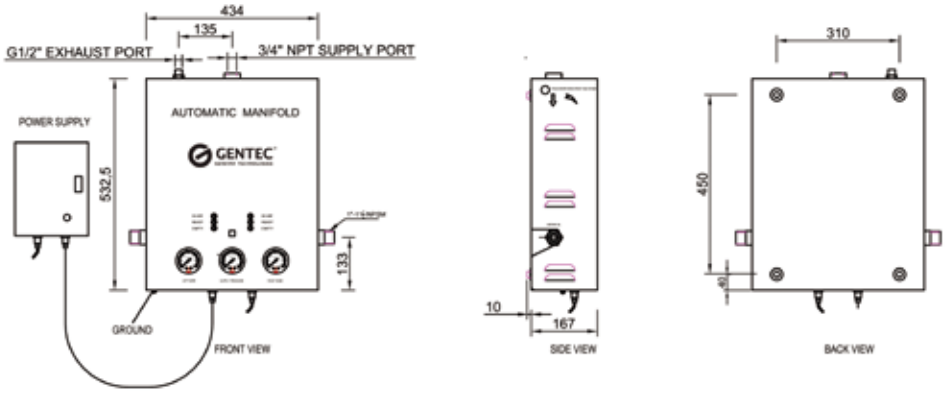
Pipeline

- 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® 5500M Series automatic manifold systems shall be manufactured by Genstar Technologies Co., Inc. in an ISO 13485 certified facility. The systems shall be compliant with NFPA 99, HTM 02-01 and ISO 7396.
- The 5500M changeover system includes two primary regulators, gas specific cylinder connections, and a single-point power connection. Nitrous oxide and carbon dioxide changeover systems include pre-wired heaters. The changeover system shall automatically switch to the reserve bank when the pressure in the primary bank falls to a predetermined level.
- The 5500M 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.
- Header bars shall be made of silver brazed, rigid, brass pipe and fittings.
- Pigtails shall be gas-specific, complete with CGA nut and nipple inlet and outlet fitting. Check valve shall be optional. Pigtails for oxygen and nitrous oxide applications are of 24” or 36” semi-rigid copper. Pigtails for carbon dioxide, nitrogen, and medical air applications are of 24” or 36” flexible stainless steel.
- 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



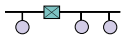
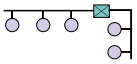
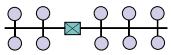
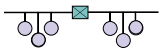
ORDERING INFORMATION

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

5 5 1 2 M X - 0 * 0 - 1

- Automatic manifold system series prefix
- Manifold system layout
- Cylinder valve spacing
- Medical
- Gas service
- Number of cylinders
- Type of mounting

Manifold System Layout

1		Standard Layout
2		“L” shape Layout
3		“U” shape Layout
4		Crossover Layout
5		Staggered Layout

Gas Service	
X	Oxygen
A	Medical Air
IA	Instrument Air
N2O	Nitrous Oxide
IN	Nitrogen
C	Carbon Dioxide

Cylinder Spacing (Center to Center)	
1	5”
2	10”
3	13”
4	18”

Number of Cylinders	
Null	Single Changeover Box
5*5	Left * Right Number of Cylinders (filters and master shutoff valves included)

Type of Mounting	
1	Wall Mount
2	Floor Mount

Example:

5512MX-5*5-1 indicates a 5*5 oxygen cylinder automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout.
5500MX-0*0 indicates an oxygen changeover system with filters and master shutoff valves.
5500MX indicates an oxygen changeover system only.

SERIES NUMBER	GAS SERVICE	INLET PRESSURE psi (bar)	DELIVERY FLOW m^3/h (SCFH)	DELIVERY PRESSURE psi (bar)	OUTLET CONNECTION	INLET CONNECTION	POWER
5500MX	Oxygen	150~3000 (10~206)	100 (3530)	60 (4.1)	3/4” NPT	Pigtail, CGA540	110 / 220 V, 50 HZ
5500MA	Medical Air	150~3000 (10~206)	100 (3530)	60 (4.1)	3/4” NPT	Pigtail, CGA346	110 / 220 V, 50 HZ
5500MIA	Instrument Air	250~3000 (17~206)	100 (3530)	180 (12.4)	3/4” NPT	Pigtail, CGA346	110 / 220 V, 50 HZ
5500MN2O	Nitrous Oxide	150~3000 (10~206)	50 (1765)	60 (4.1)	3/4” NPT	Pigtail, CGA326	110 / 220 V, 50 HZ
5500MIN	Inert Gas	250~3000 (17~206)	100 (3530)	180 (12.4)	3/4” NPT	Pigtail, CGA580	110 / 220 V, 50 HZ
5500MC	Carbon Dioxide	150~3000 (10~206)	50 (1765)	60 (4.1)	3/4” NPT	Pigtail, CGA320	110 / 220 V, 50 HZ

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 FLY#: MED13V1011-1

GENTEC®
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5500MD SERIES MEDICAL DIGITAL AUTOMATIC MANIFOLD SYSTEMS

Technology for a Better Future

GENTEC® 5500MD series medical digital automatic manifold system is designed to provide an uninterrupted gas supply with an integrated circuit board. The fully automatic manifold system monitors cylinder bank pressure and , controls the changeover when the primary cylinder bank is depleted, and eliminates the need to manually reset the valve. Even in case of a power failure, the system continues to supply gas without interruption. The system is compliant with NFPA 99 and ISO 7396, HTM 02-01 is optional.

FEATURES

Automatic Changeover System

- Fully enclosed, tamper-resistant metal cabinet.
- Stainless steel diaphragm regulator ensures steady gas flow.
- LED indicators provide system status ("IN USE"-green, "READY"-yellow, "EMPTY"-red.)
- Patent pending changeover technology.
- Integral alarm. Remote alarm available.

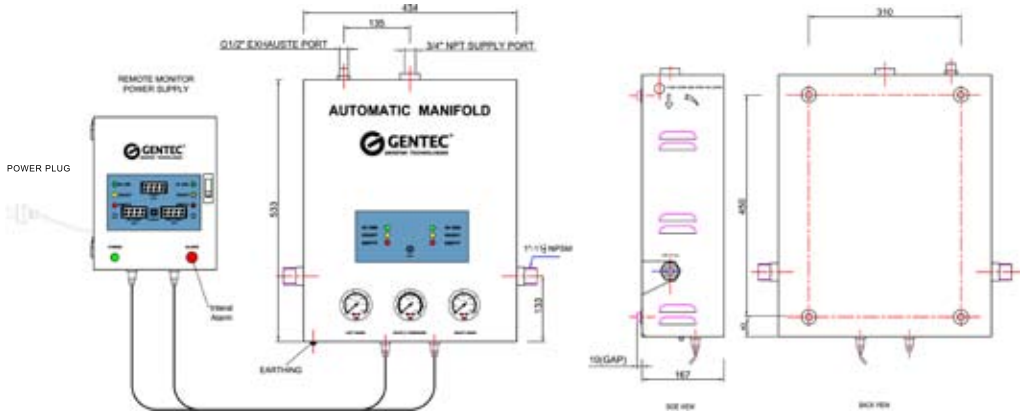
Pipeline

- 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® 5500MD Series digital automatic manifold systems shall be manufactured by Genstar Technologies Co., Inc. in an ISO 13485 certified facility. The systems shall be compliant with NFPA 99, HTM 02-01 and ISO 7396.
- The 5500MD changeover system includes two primary regulators, gas specific cylinder connections, and a single-point power connection. Nitrous oxide and carbon dioxide changeover systems include pre-wired heaters. The changeover system shall automatically switch to the reserve bank when the pressure in the primary bank falls to a predetermined level.
- The 5500MD Series automatic digital manifold systems shall be able to operate without electrical power (except for the heaters for nitrous oxide and carbon dioxide systems). Electrical power is used only to illuminate LED indicators and operate the changeover alarms. In the event of a power failure, the system shall continue to supply gas without interruption.
- Header bars shall be made of silver brazed, rigid, brass pipe and fittings.
- Pigtails shall be gas-specific, complete with CGA nut and nipple inlet and outlet fitting. Reverse flow outlet check valve shall be optional. Pigtails for oxygen and nitrous oxide applications are of 24” or 36”, semi-rigid copper. Pigtails for carbon dioxide, nitrogen, and medical air applications are of 24” or 36” flexible stainless steel.
- The system shall be funished 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



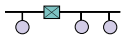
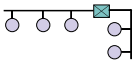
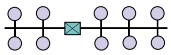
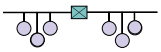
ORDERING INFORMATION

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

5 5 1 2 M D X - 0 * 0 - 1

- Automatic manifold system series prefix
- Manifold system layout
- Cylinder valve spacing
- Medical
- Digital
- Gas service
- Number of cylinders
- Type of mounting

Manifold System Layout

1		Standard Layout
2		“L” shape Layout
3		“U” shape Layout
4		Crossover Layout
5		Staggered Layout

Gas Service	
X	Oxygen
A	Medical Air
IA	Instrument Air
N2O	Nitrous Oxide
IN	Nitrogen
C	Carbon Dioxide

Cylinder Spacing (Center to Center)	
1	5”
2	10”
3	13”
4	18”

Number of Cylinders	
Null	Single Changeover Box
5*5	Left * Right Number of cylinders (fillters and master shutoff valves included)

Type of Mounting	
1	Wall Mount
2	Floor Mount

Example: 5512MDX-5*5-1 indicates a 5*5 oxygen cylinder digital automatic manifold system. Distance between two cylinders is 10" on standard horizontal layout.

Example: 5512MDX-0*0 indicates a changeover system with fillters and master shutoff valves.

SERIES NUMBER	GAS SERVICE	INLET PRESSURE (psi)	DELIVERY FLOW (m^3/h)	DELIVERY PRESSURE (psi)	OUTLET CONNECTION	INLET CONNECTION	POWER
5500MDX	Oxygen	150~3000	100	60	3/4” NPT attachment to the union	Pigtail, CGA540	110 / 220 V, 100 VA
5500MDA	Medical Air	150~3000	100	60	3/4” NPT attachment to the union	Pigtail, CGA346	110 / 220 V, 100 VA
5500MDIA	Instrument Air	250~3000	100	180	3/4” NPT attachment to the union	Pigtail, CGA346	110 / 220 V, 100 VA
5500MDN2O	Nitrous Oxide	150~3000	50	60	3/4” NPT attachment to the union	Pigtail, CGA326	110 / 220 V, 100 VA
5500MDIN	Inert Gas	250~3000	100	180	3/4” NPT attachment to the union	Pigtail, CGA580	110 / 220 V, 100 VA
5500MDC	Carbon Dioxide	150~3000	50	60	3/4” NPT attachment to the union	Pigtail, CGA320	110 / 220 V, 100 VA

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GENTEC®
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ZONE VALVE BOX ASSEMBLIES-MULTIPLE

FEATURES

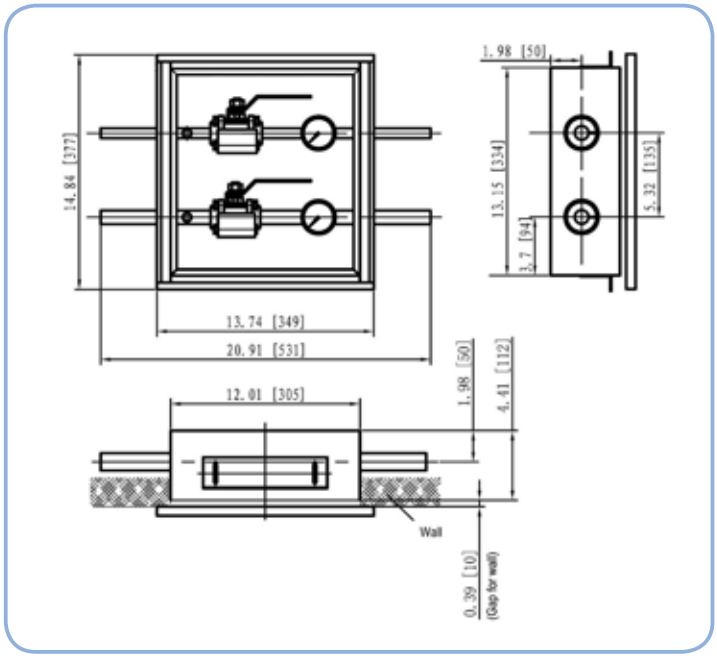
- 14-gauge steel valve box
- Accepts valve sizes ½ through 2 inches
- Factory in stalled copper tubing extensions
- Full port valves for high flow
- Gauges ordered separately
- Complies with NFPA99 requirements
- Cleaned for oxygen service
- 5 year warranty

SPECIFICATIONS

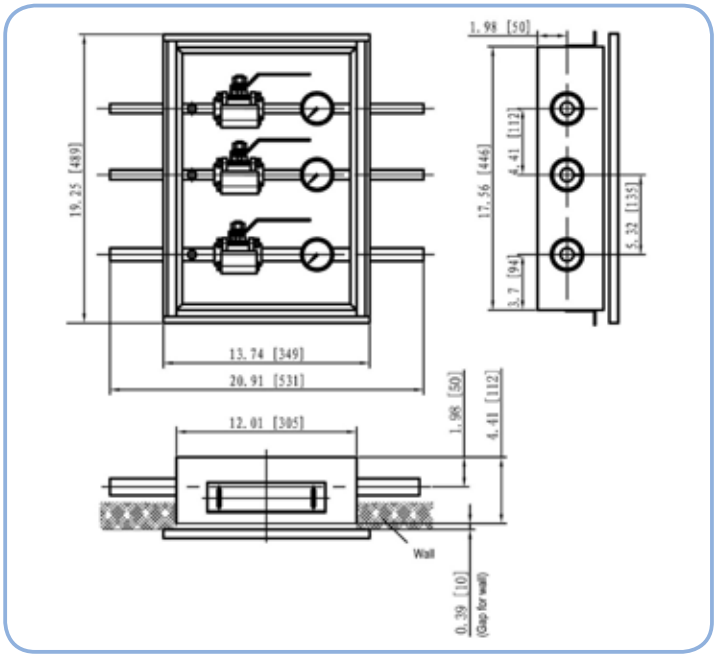
- Medical gas zone valve boxes shall be manufactured by Genstar Technologies Co.,Inc. (GENTEC®).Boxes shall be designed for concealed piping installation and available for sizes and services indicated.
- The valve box shall be 14 gauge powder coated sheet steel construction. A multiple valve box houses 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 easymounting.
- 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-outproof 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

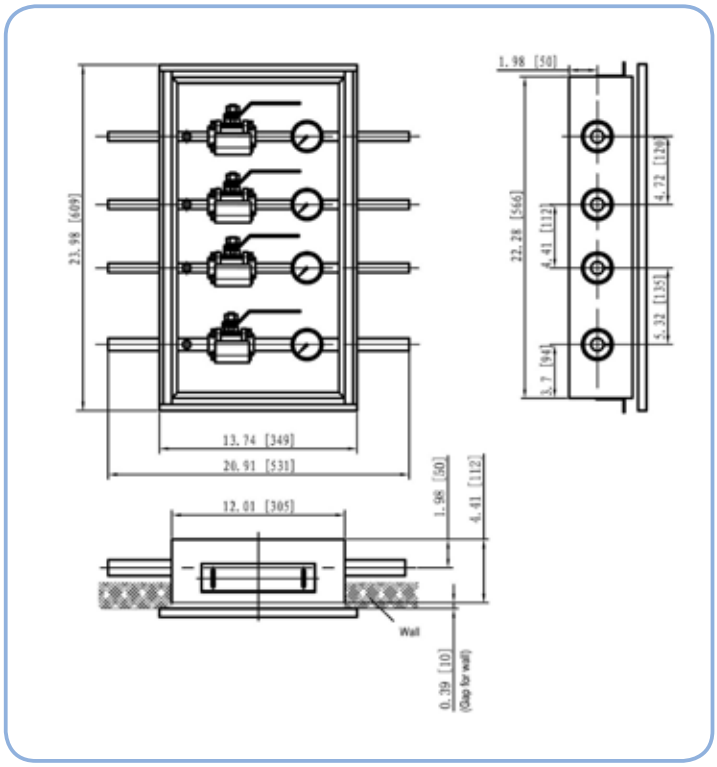
1-2 Valve Box *



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

DIMENSIONS (Cont)

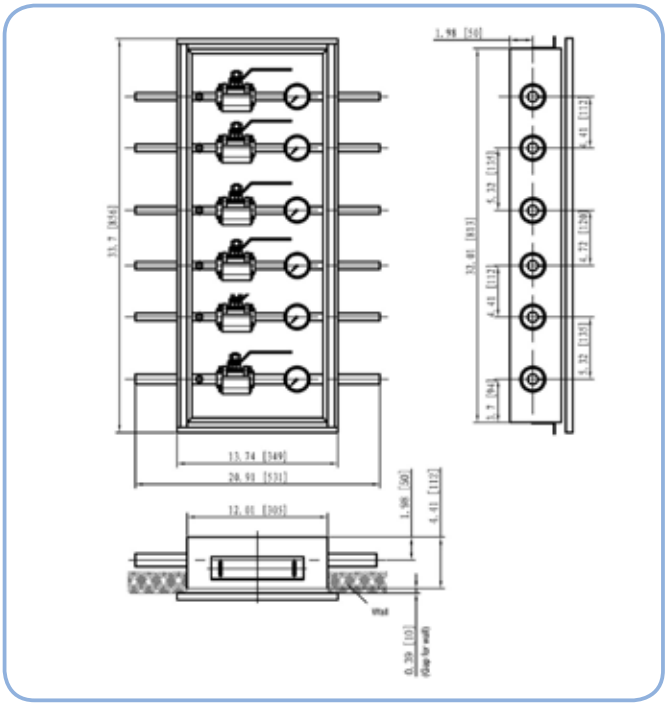
Dimensional Data Notes:

- 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

5-6 Valve Box



ORDERING INFORMATION

EXAMPLE: AVB	X	X	-	XX...XX
	Number of Valves	Option		Tubing Dimension
	(1~6)	G: with Gauge		05: 1/2”
		A: with Alarm		07: 3/4”
		R: with Regulator		10: 1”
		None: without		15: 1-1⁄2”
				20: 2”
				25: 2-1/2”
				30: 3”
				40: 4”

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.

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 seatand Stem seals–Teflon material
Frame–Powder coated steel		Ball seatand Stem seals–Teflon material
		Gauge port plug–Brass

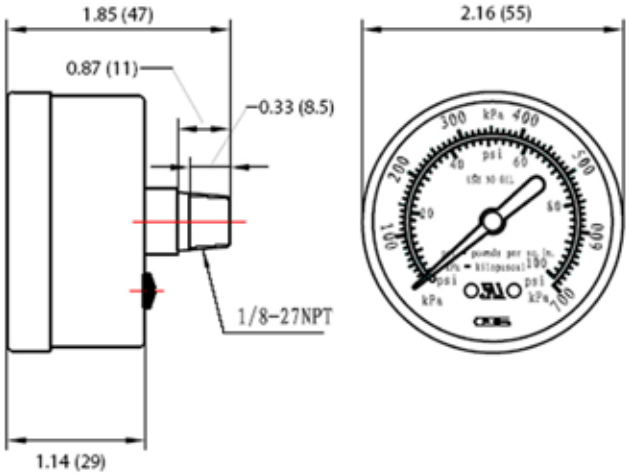
GAUGES FOR ZONE VALVE BOXES

FEATURES

- Size: 2”(50.8mm)
- Style: ASME B40.1 Grade B
- Range(dual): 0-30 inHg; 0-76 cmHg
  0-100psi; 0-700 kPa
  0-300 psi; 0-2000 kPa
- Temperature: -40ºC to +70ºC
- 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

(Gauges Ordered Separately)

Gauge Type	Catalog NO.	Gases	Qty
Vacuum,0-30”Hg	GR2005-030V	Vacuum, WAGD	
Pressure,0-100 psi	GR2006-100	Oxygen, Medical Air, Nitrous Oxide, Carbon Dioxide	
Pressure,0-300 psi	GR2006-300	Nitrogen, Instrument Air	

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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

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

AVB H - 3 G - O 10

STANDARD
H: HTM standard compliant
E: ISO 7396 (EN737) compliant
Blank: NFPA Standard

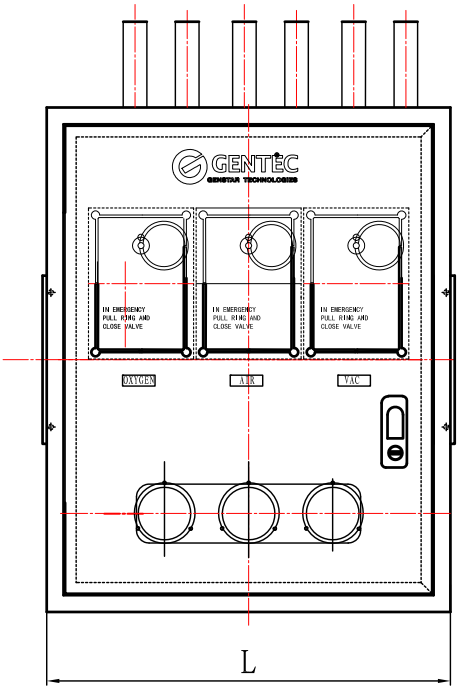
NUMBER OF CHANNELS
(1~6)

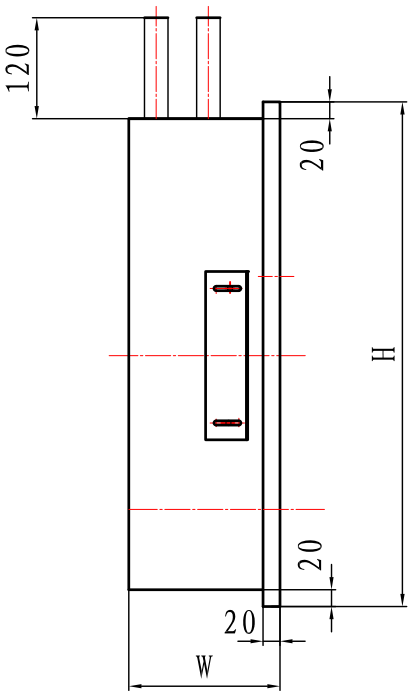
STRUCTURE:
G: With Pressure Gauge
R: With Regulator
A: With Alarm
D: With digital display
V: Inlet and outlet on upper side
None: Without gauge

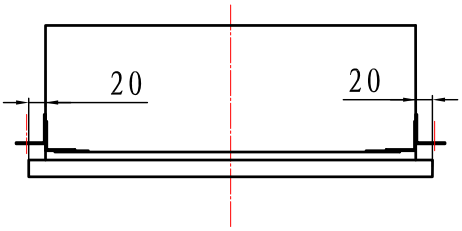
GAS SERVICE
O: Oxygen
V: Vacuum
A: Medical Air
2: Nitrous Oxide
C: Carbon Dioxide
N: Nitrogen

PIPE DIAMETER
05: 1/2"
07: 3/4"
10: 1"
15: 1-1/2"

DIMENSIONS







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.

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GENTEC®
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MEDICAL 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.

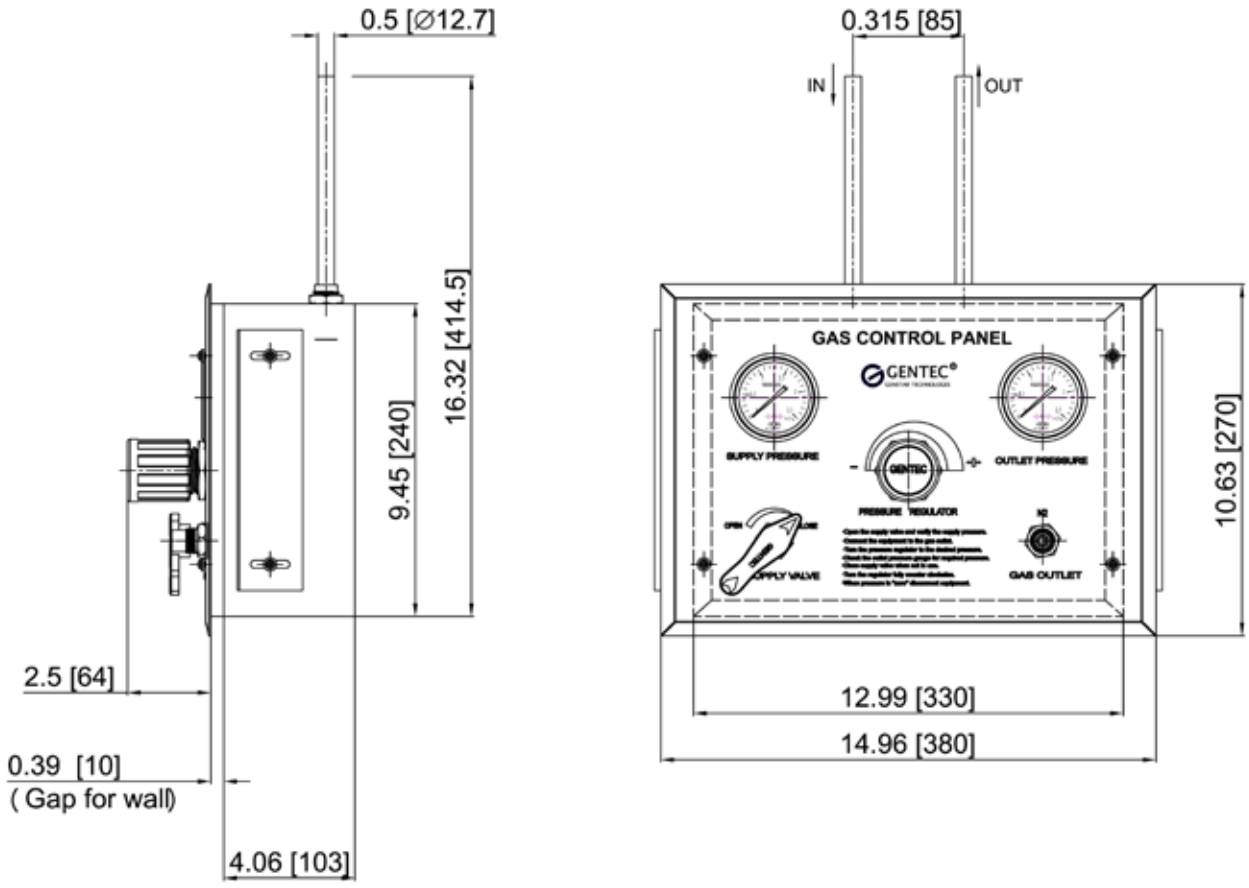
PROJECT:

_____

_____

_____

DIMENSIONS



Note: All dimensions are reference.

ORDERING INFORMATION

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

Technology for a Better Future

GENTEC® GENSTAR TECHNOLOGIES

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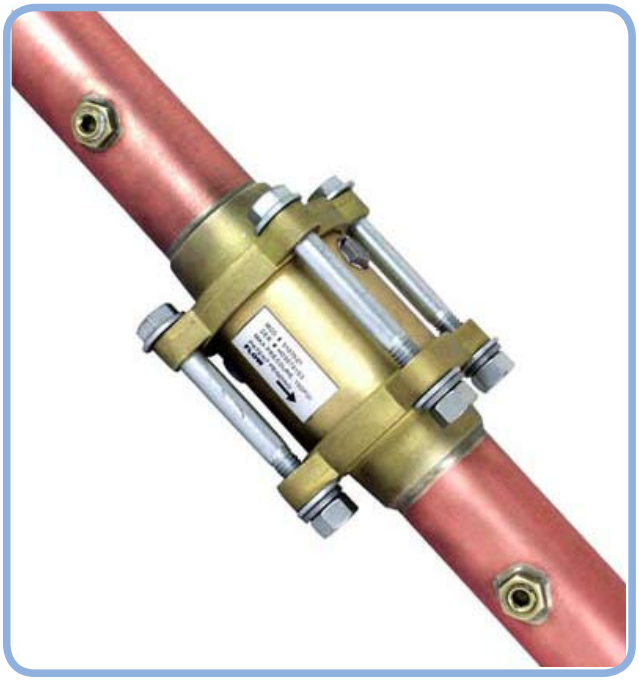
4525 Edison Avenue
Chino, CA 91710, USA
Tel: 909-606-2726
Fax: 909-606-6485
www.gentechealthcare.com

GENTEC®
GENSTAR TECHNOLOGIES

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



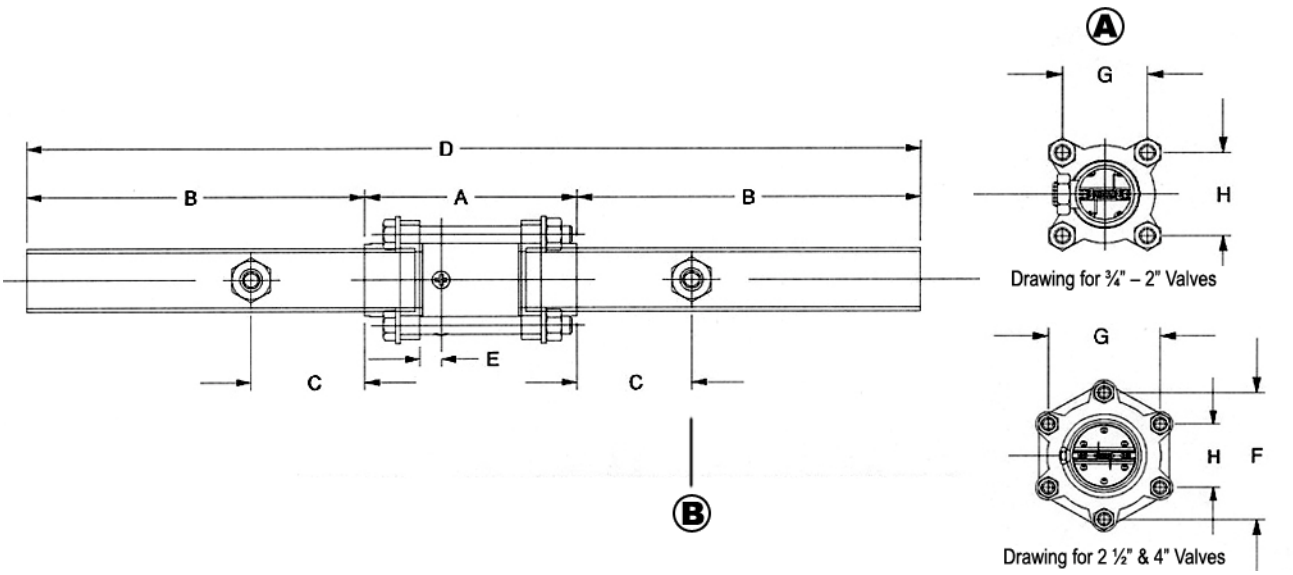
SPECIFICATIONS

- GENTEC® medical check valves shall be designed for concealed piping installation and available for sizes and services indicated.
- Check valves shall be of brass construction and designed for working pressures of up to 300 psi. The valve body is a 3-piece design with Viton®/ EPDM/Teflon® seats. The body shall be field removable for servicing without having 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 GENTEC medical check valves are backed by a standard 5-year warranty (see warranty statement for details).

GENTEC VALVE

* flow of water through a valve at 60 °F in US gallons per minute at a pressure drop of 1 lb/in^2

DIMENSIONS



Dimensional Data Notes:

A. Four Bolts Used on ¾"- 2" Valves; Six Bolts Used on 2 ½"- 4" Valves
B. Gauge Ports with 1/8" Plug (Gauge Not Supplied)

Dimensions: (Inches)

Valve Size	A	B	C	D	E	F	G	H
¾"	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
1¼"	4.06	6.00	2.00	16.06	.40	-	2.00	2.00
1½"	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
2½"	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	QTY
¾"	CVP-07	
1"	CVP-10	
1¼"	CVP-12	
1½"	CVP-15	
2"	CVP-20	
2½"	CVP-25	
3"	CVP-30	
4"	CVP-40	

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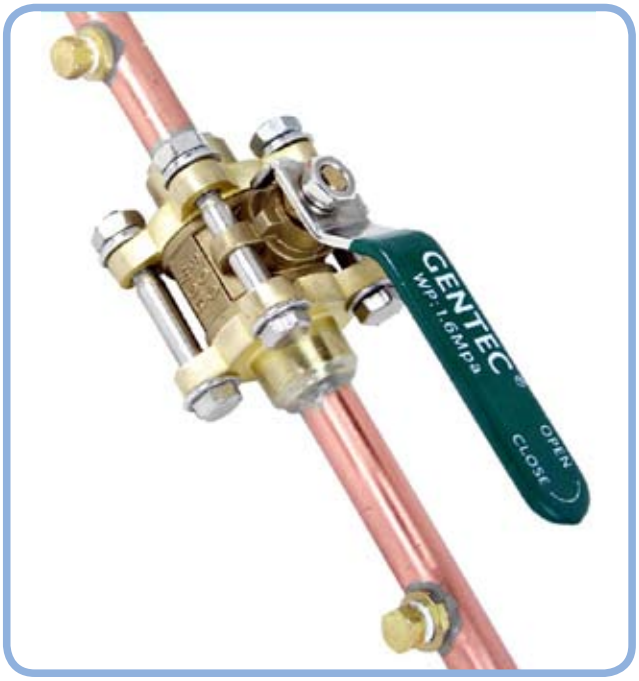
GENTEC®
GENSTAR TECHNOLOGIES

BALL VALVES ½” 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

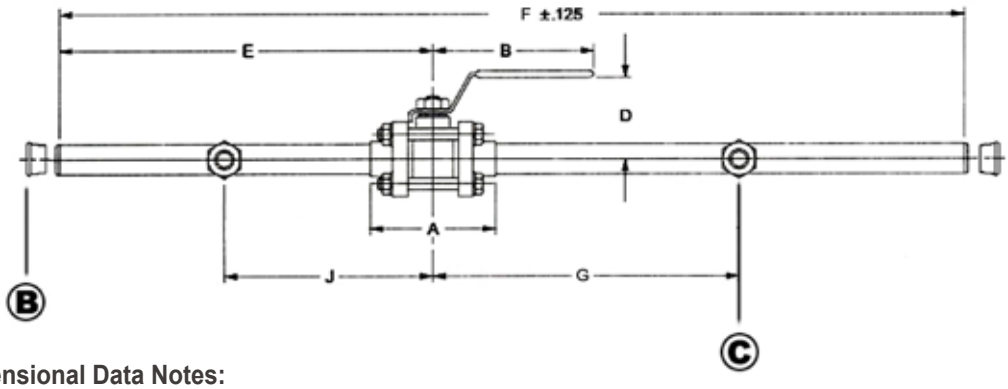


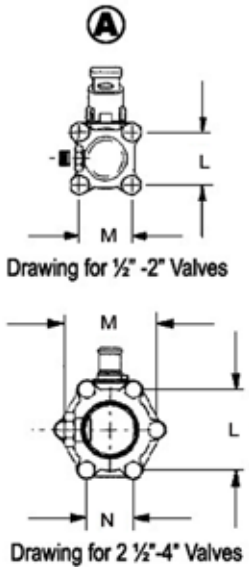
Dual Gauge Port Version

SPECIFICATIONS

- Medical gas ball valves shall be manufactureed 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 ½"-2"; Six Bolts Used on 2 ½"-4" Valves
B. Extension Cap
C. Gauge Port with 1/8" Plug (Gauge Not Supplied)

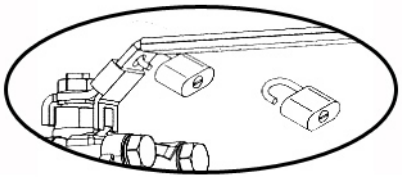
Dimensions: (Inches)

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 Locking Handle (Non-Locking)	Dual Port Ball Valves 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



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GENTEC®
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GUMACS™ SERIES
MEDICAL GAS AREA ALARM

Area Alarm with Local Sensors

GUMACS™ Series Area Alarm is CE marked and NFPA 99 compliant. Designed to accept a variety of input signals, GUMACS™ Series Area Alarm is often used to monitor pressure, flow rate, temperature, humidity, concentration, and other safety indexes. If needed, GUMACS™ Series Area Alarm can also offer relay switch output control capability.

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

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

ELECTRICAL AND PHYSICAL SPECIFICATIONS

Mechanical

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

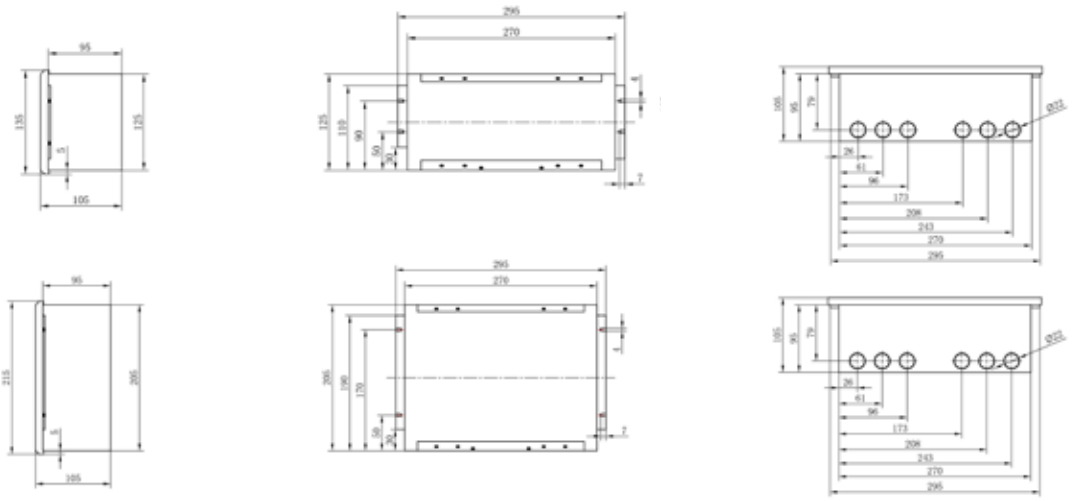
Communication

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

Electrical

Power Requirements
Input: 100~240 VAC, 0.5 A Maximum
Analog Input
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
Relay Output
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
Buzzer: Adjustable Intensity

DIMENSIONS



ORDERING INFORMATION

BAA - **R** - **03** - **OVA**

Area Alarm

Sensor Type
L: Local Sensor
R: Remote Sensor

Number of Numerical Channels
(01 to 16 Normally)

Gas Type
O: Oxygen
V: Vacuum
A: Medical Air
I: Instrument Air
N: Nitrogen
2: Nitrous Oxide
C: Carbon Dioxide
W: WAGD Vacuum

Example:
BAA - R - 03 - OVA indicates an area alarm (remote sensor) for oxygen, vacuum, and medical air .

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GENTEC®
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GUMACS™ SERIES
MEDICAL GAS MASTER ALARM

Master Alarm (up to 32 inputs)

GUMACS™ 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. GUMACS™ Series Master Alarm can also offer relay switch output control capability when required.

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

Although not done conventionally, GUMACS™ 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.

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

ELECTRICAL AND PHYSICAL SPECIFICATIONS

Mechanical

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

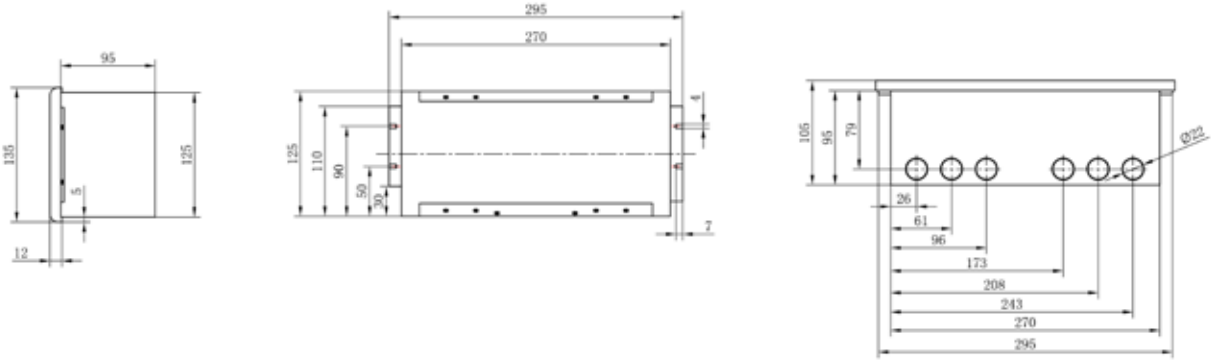
Communication

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

Electrical

Power Requirements
Input: 100~240 VAC, 0.5 A Maximum
Analog Input(for first module)
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
Digital Output (for one expansion module)
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
Digital Input (for one expansion module)
5 VDC, 24 mA per Channel Maximum
Number of Channels: 16 Maximum
Grayhill: 70-IAC5, 70IDC5 , and Compatibles
Numerical Display: Resolution: Large 7-segment, four-digits LED

DIMENSIONS



ORDERING INFORMATION

BMA - **01** - **00**

Area Alarm

Number of Digital Input
01: 1~16 Digital Inputs
02: 17~32 Digital Inputs
03: 33~48 Digital Inputs
04: 49~64 Digital Inputs

Number of Digital Output
00: 0 Digital Outputs
01: 1~16 Digital Outputs
02: 17~32 Digital Outputs
03: 33~48 Digital Outputs

Example:
BMA - 01 - 00 indicates a master alarm for 1~16 input channels .

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GUMACS™ SERIES
MEDICAL GAS COMBINATION ALARM

GUMACS™ Series Combination Alarm

Flexibility of Module Placement

GUMACS™ 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. GUMACS™ Series Combination Alarm can also offer relay switch output control capability when required.

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

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

ELECTRICAL AND PHYSICAL SPECIFICATIONS

Mechanical

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

Wiring

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

Communication

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

Electrical

Power Requirements
Input: 100~240 VAC, 0.5 A Maximum
Analog Input(for first module)
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
Digital Output (for one expansion module)
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
Digital Input (for one expansion module)
5 VDC, 24 mA per Channel Maximum
Number of Channels: 16 Maximum
Grayhill: 70-IAC5, 70IDC5 , and Compatibles
Numerical Display: Resolution: Large 7-segment, four-digits LED

ORDERING INFORMATION

EMA - R - 02 - OV - 01 - 00

EMA — Combination Alarm

R — Sensor Type
L: Local Sensor
R: Remote Sensor

02 — Number of Numerical Channels

OV — Gas Type
O: Oxygen
V: Vacuum
A: Medical Air
I: Instrument Air
N: Nitrogen
2: Nitrous Oxide
C: Carbon Dioxide
W: WAGD Vacuum

01 — Number of Digital Input
01: 1~16 Digital Inputs
02: 17~32 Digital Inputs
03: 33~48 Digital Inputs
04: 49~64 Digital Inputs

00 — Number of Digital Output
00: 0 Digital Outputs
01: 1~16 Digital Outputs
02: 17~32 Digital Outputs
03: 33~48 Digital Outputs

Example:

EMA - R - 02 - OV - 01 - 00 indicates a combination alarm (remote sensor) with 2 numerical channels (oxygen, vacuum), 1~16 digital input channels, and 0 digital output.

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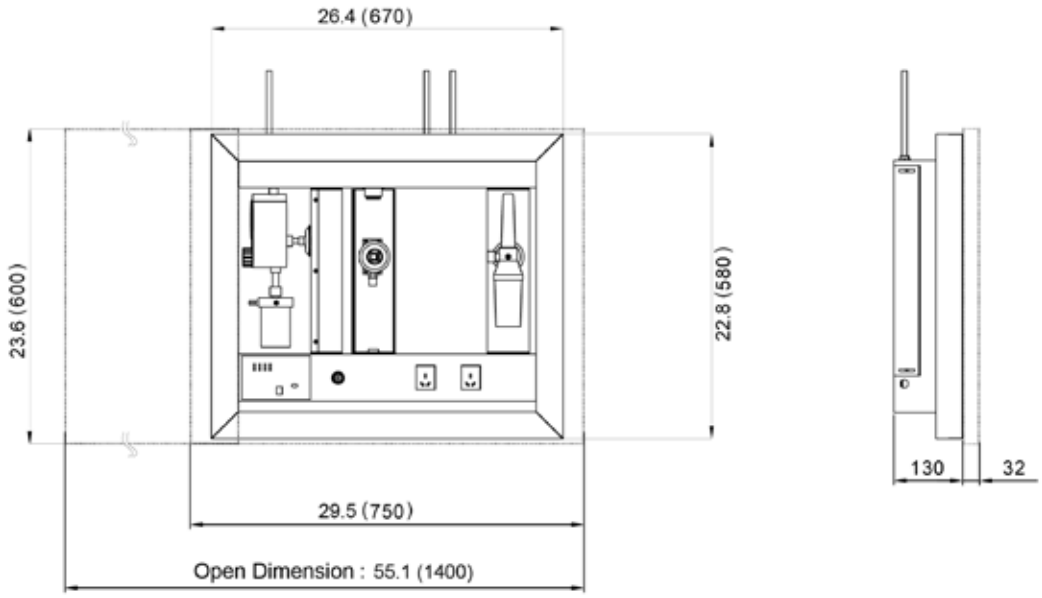
ART WALL ENCLOSURE

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
3721

CANVAS STYLE
P01: Portrait
P02: Landscape
P03: Abstract

MEDICAL GAS OUTLET:
OH: Ohmeda® adapter
DS: DISS hex adapter
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.

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MEDICAL BEDHEAD UNITS

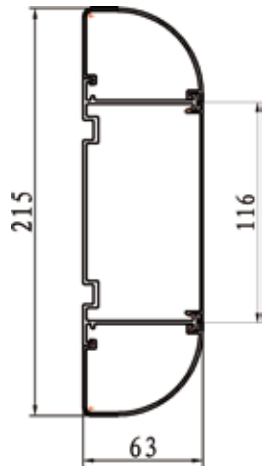
3703 Series

3702 Series

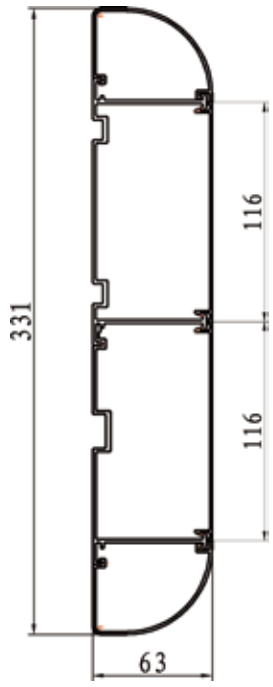
FEATURES

- 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

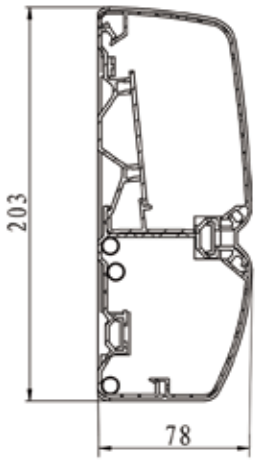
DIMENSIONS



3701 Series



3702 Series



3703 Series

ORDERING INFORMATION

Please contact Genstar for ordering information.

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GENTEC®
GENSTAR TECHNOLOGIES

MEDICAL GAS CONSOLE OUTLET OHMEDA® COMPATIBLE 90° TUBING

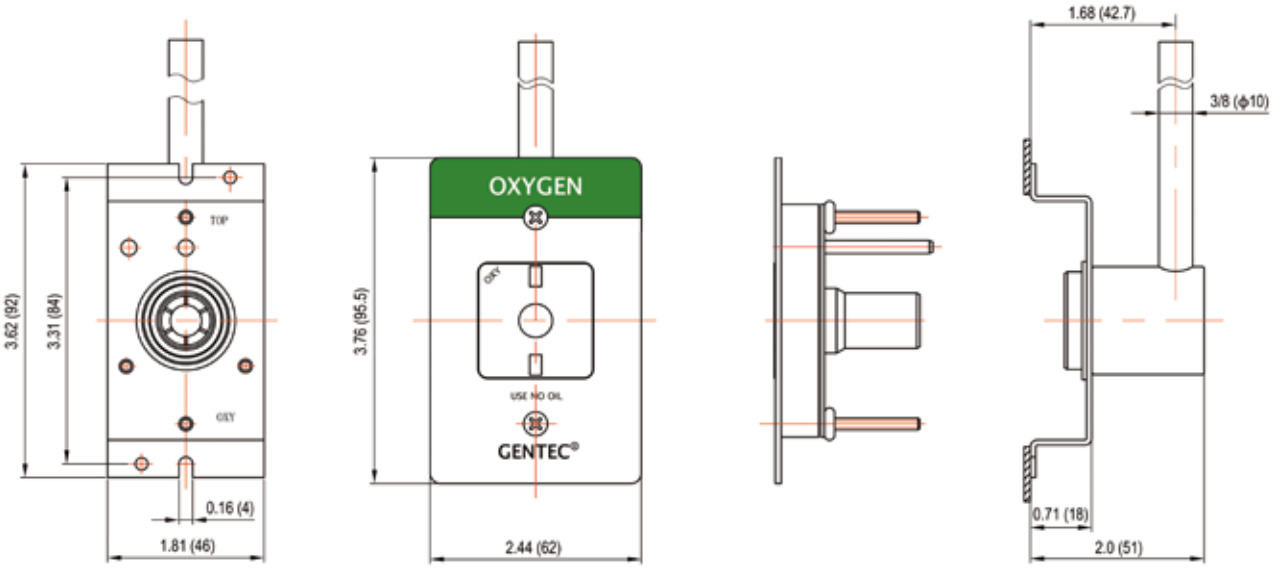
FEATURES

- Accepts only Ohmeda 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
- UL and CSA approved

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 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 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



FRONT SIDE

Dimensional Data Notes:

A. Ohmeda compatible quick connect type latch valve shown
B. 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
C. Inch (mm)
D. Wall thinkness 1/2" (12.7 mm) to 1" (12.5 mm)

ORDERING INFORMATION

	Ohmeda Compatible	
Gas Service	**Cat No.**	**Qty**
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	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.

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GENTEC® GENSTAR TECHNOLOGIES

CE 0123

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FLY#: MED15V1009-1

GENTEC®
GENSTAR TECHNOLOGIES

MEDICAL GAS CONSOLE OUTLET OHMEDA® COMPATIBLE 180° TUBING

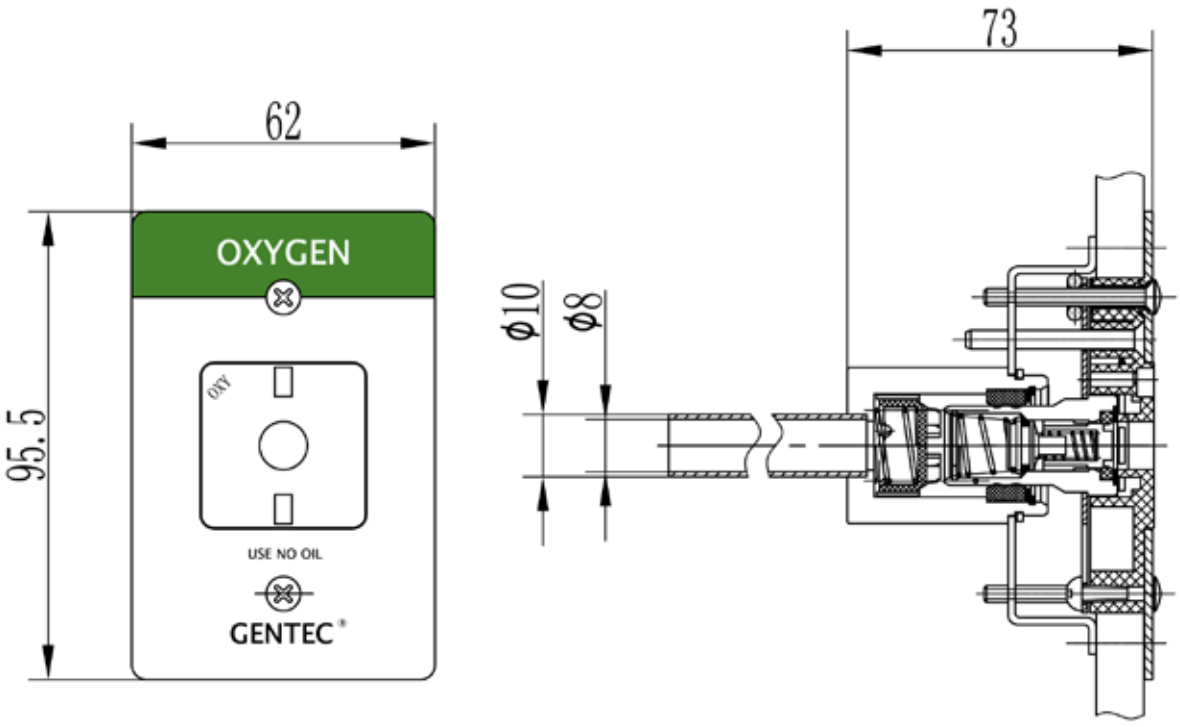
FEATURES

- Accepts Ohmeda®, Chemetron® or Puritan-Bennett® quick connect and DISS gas specific adapters
- Indexed to prevent interchangeability of gas services
- Easy conversion of quick connection or DISS type latch valve assemblies
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards
- UL Listed

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



ORDERING INFORMATION

Gas Service	Cat No.	Ohmeda Compatible Pipe
Oxygen	3811U-O / 3811U-O-M	1/2" / ϕ10 real
Vacuum	3811U-V / 3811U-V-M	1/2" / ϕ10 real
Medical Air	3811U-A / 3811U-A-M	1/2" / ϕ10 real
Nitrous Oxide	3811E-2 / 3811E-2-M	1/2" / ϕ10 real
WAGD	3811U-W / 3811U-W-M	1/2" / ϕ10 real

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		

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GENTEC®
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MEDICAL GAS CONSOLE OUTLET CHEMETRON® COMPATIBLE 90° TUBING

FEATURES

- Accepts only Chemetron 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
- UL and CSA approved

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.

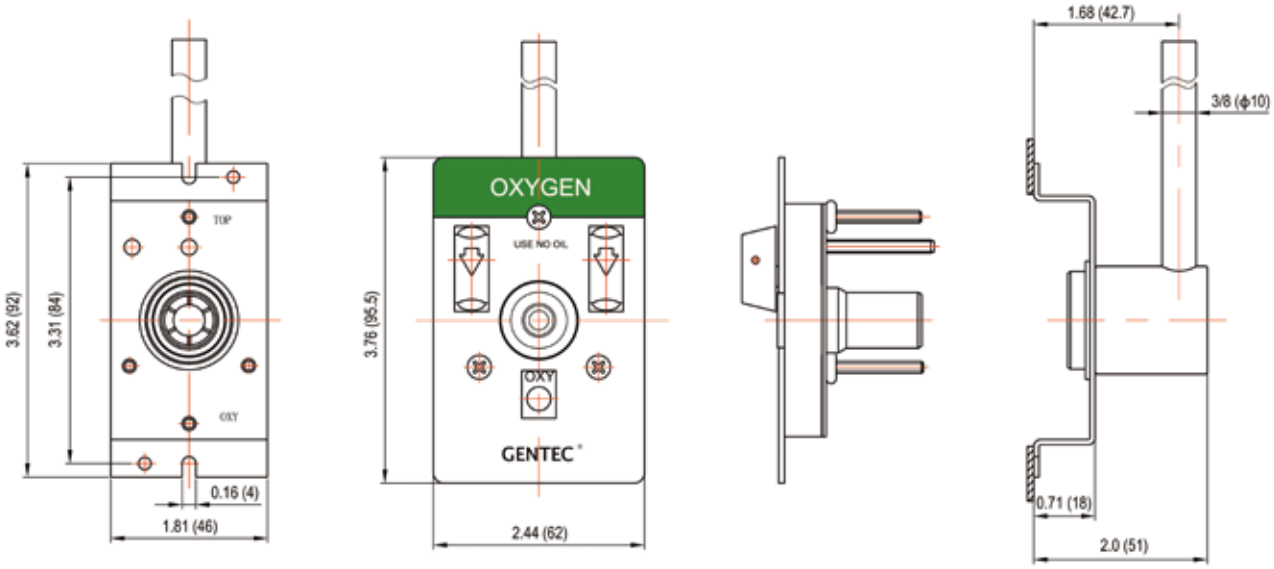
- Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed to the outlet body. Inlet tubing shall be type “K” copper, 1/2” O.D. (12.7 mm), extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified 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



FRONT SIDE

Dimensional Data Notes:

A. Ohmeda compatible quick connect type latch valve shown
B. 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
C. Inch (mm)
D. Wall thinkness 1/2" (12.7 mm) to 1" (12.5 mm)

ORDERING INFORMATION

	Chemetron Compatible	
Gas Service	**Cat No.**	**Qty**
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	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.

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GENTEC®
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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
- UL Listed

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.

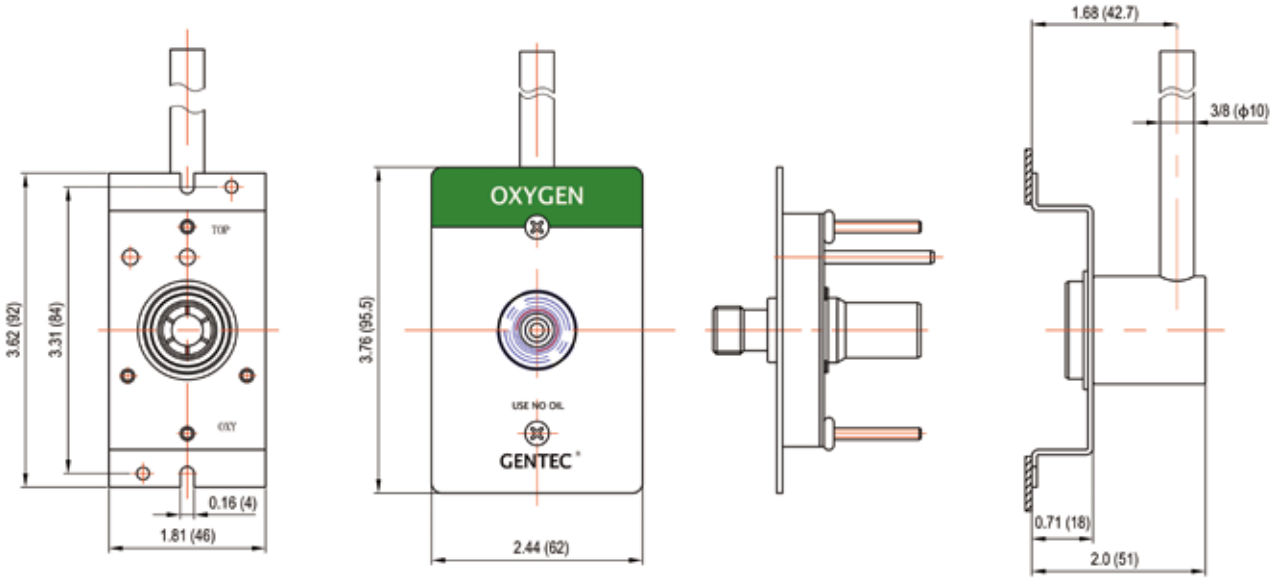
- Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed to the outlet body. Inlet tubing shall be type “K” copper, 1/2” O.D. (12.7 mm), extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified 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



FRONT SIDE

Dimensional Data Notes:

A. Ohmeda compatible quick connect type latch valve shown
B. 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
C. Inch (mm)
D. Wall thinkness 1/2" (12.7 mm) to 1" (12.5 mm)

ORDERING INFORMATION

Gas Service	DISS Standard Cat No.	Qty
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	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.

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GENTEC®
GENSTAR TECHNOLOGIES

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

FEATURES

- Accepts only Puritan-Bennett 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
- UL and CSA approved

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 Puritan-Bennett 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.

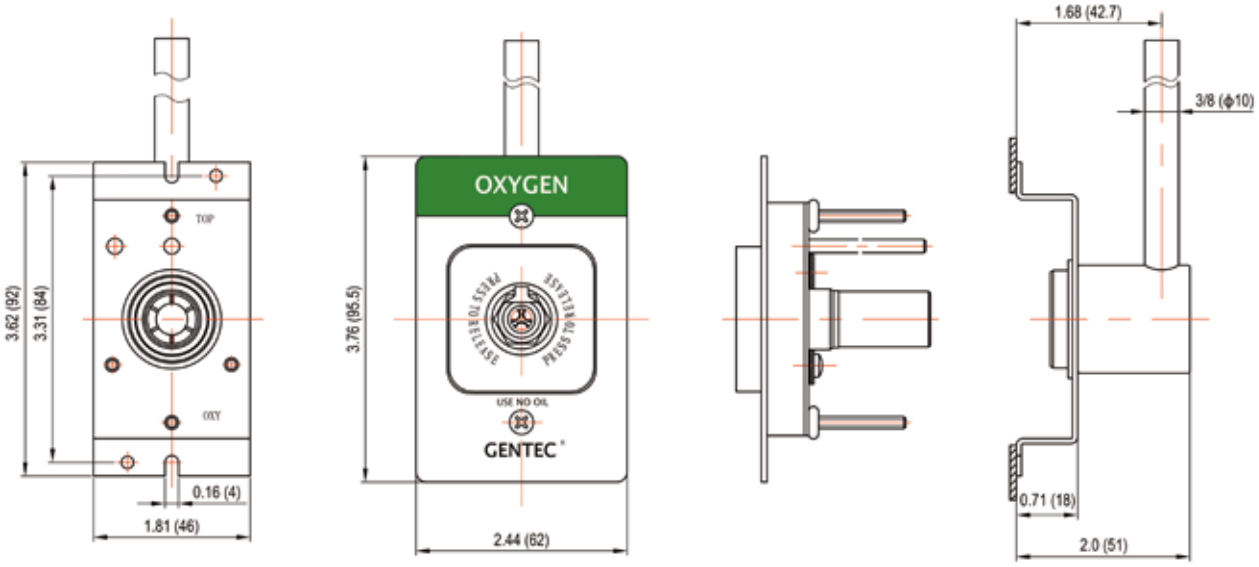
- Universal rough-in assembly shall include a rough-in plate (16 ga.) with gas inlet tubing silver brazed to the outlet body. Inlet tubing shall be type “K” copper, 1/2” O.D. (12.7 mm), extend 6-1/2 inches (165 mm), and swivel 360° for ease of installation. Rough-in assembly shall accept only the specified 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



FRONT SIDE

Dimensional Data Notes:

A. Ohmeda compatible quick connect type latch valve shown
B. 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
C. Inch (mm)
D. Wall thinkness 1/2" (12.7 mm) to 1" (12.5 mm)

ORDERING INFORMATION

	Puritan-Bennett Compatible	
Gas Service	**Cat No.**	**Qty**
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	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.

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GENTEC®
GENSTAR TECHNOLOGIES

MEDICAL GAS WALL OUTLET
QUICK CONNECT
OHMEDA® COMPATIBLE

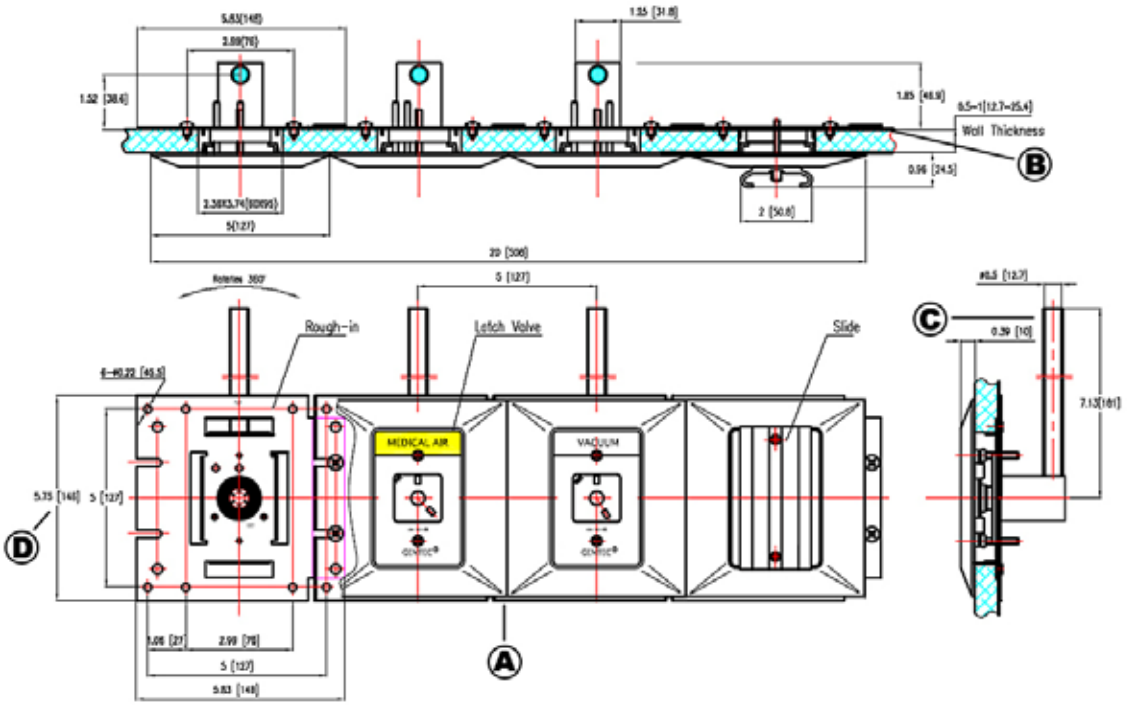
FEATURES

- 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
- UL Listed

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 360º 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" (12.7mm to 25.4mm).
C. 1/2" O.D. (3/8" Nominal) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle.
D. Inch (mm)

ORDERING INFORMATION

	Ohmeda Compatible	
Gas Service	**Cat No.**	**Qty**
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
ABS Plastic	ABS Plastic	Powder Coating
Steel/Brass+Plating	Neoprene	
Stainless Steel	Steel+Plating	
Brass	Copper	
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.

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GENSTAR TECHNOLOGIES

MEDICAL GAS WALL OUTLET QUICK CONNECT CHEMETRON® COMPATIBLE

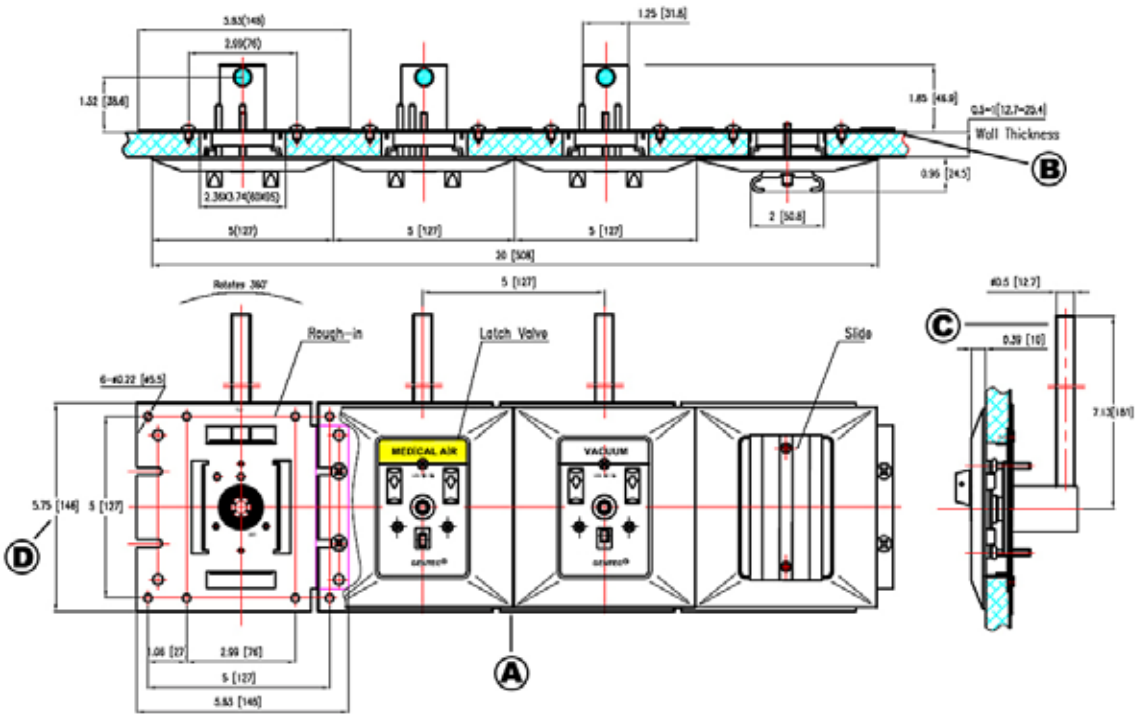
FEATURES

- 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
- UL Listed

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 360º 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" (12.7mm to 25.4mm).
C. 1/2" O.D. (3/8" Nominal) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle.
D. Inch (mm)

ORDERING INFORMATION

	Chemetron Compatible	
Gas Service	**Cat No.**	**Qty**
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
ABS Plastic	ABS Plastic	Powder Coating
Steel/Brass+Plating	Neoprene	
Stainless Steel	Steel+Plating	
Brass	Copper	
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.

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MEDICAL GAS WALL OUTLET
DISS
(Diameter Index Safety System)

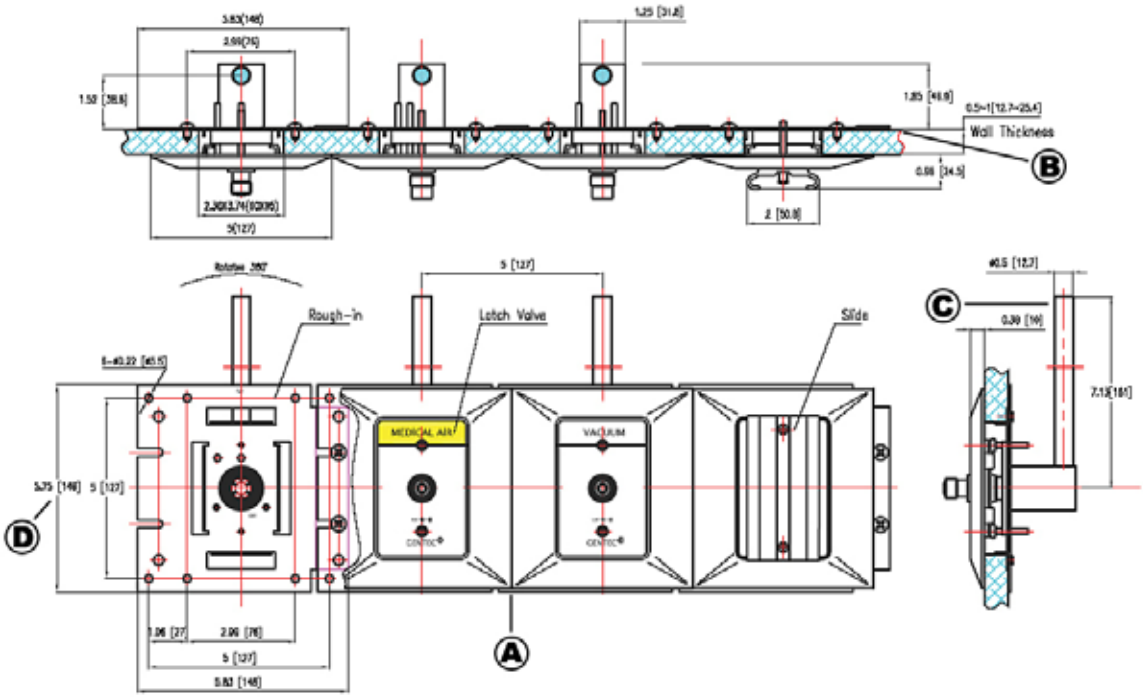
FEATURES

- 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
- UL Listed

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 corresponding 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 360º 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" (12.7mm to 25.4mm).
C. 1/2" O.D. (3/8" Nominal) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle.
D. Inch (mm)

ORDERING INFORMATION

Gas Service	DISS Cat No.	Standard Qty
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	Neoprene	
Stainless Steel	Steel+Plating	
Brass	Copper	
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.

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GENTEC® GENSTAR TECHNOLOGIES

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MEDICAL GAS WALL OUTLET QUICK CONNECT PURITAN-BENNETT® COMPATIBLE

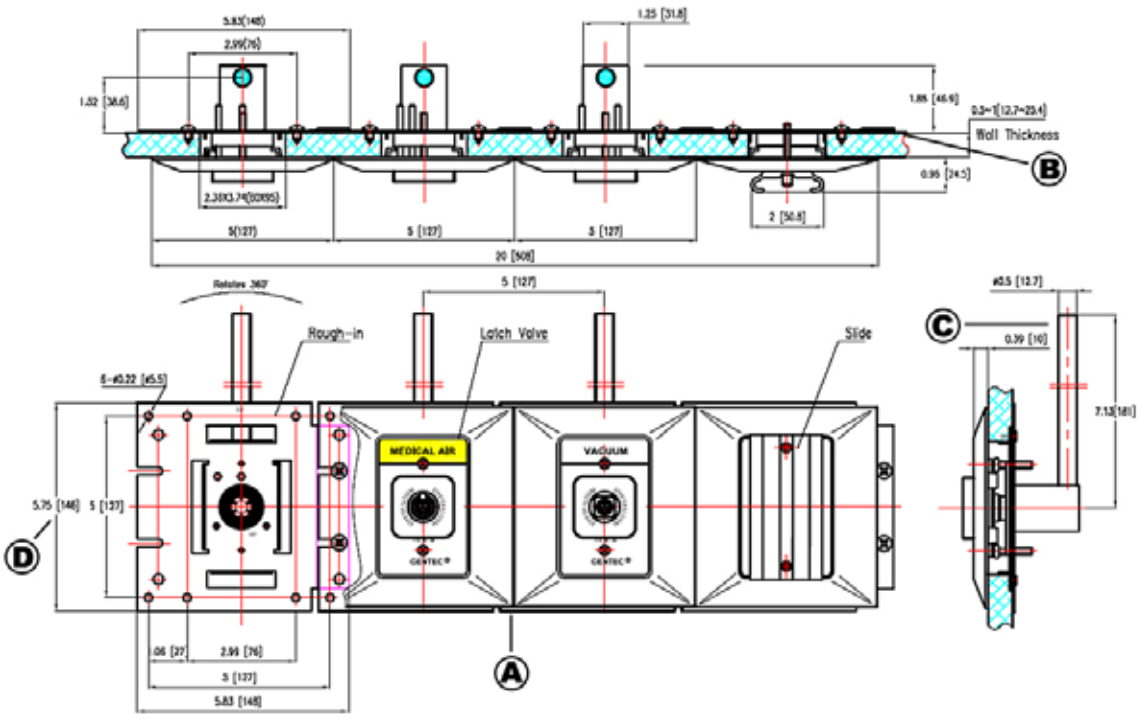
FEATURES

- 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
- UL Listed

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 360º 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" (12.7mm to 25.4mm).
C. 1/2" O.D. (3/8" Nominal) type K copper inlet tube allows 360° swivel on outlet body for entry from any angle.
D. Inch (mm)

ORDERING INFORMATION

	Puritan-Bennett Compatible	
Gas Service	**Cat No.**	**Qty**
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	Neoprene	
Steel/Brass+Plating	Steel+Plating	
Stainless Steel	Copper	
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.

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GENTEC®
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MEDICAL GAS CONSOLE OUTLET 90-DEGREE DISS

(Diameter Index Safety System)

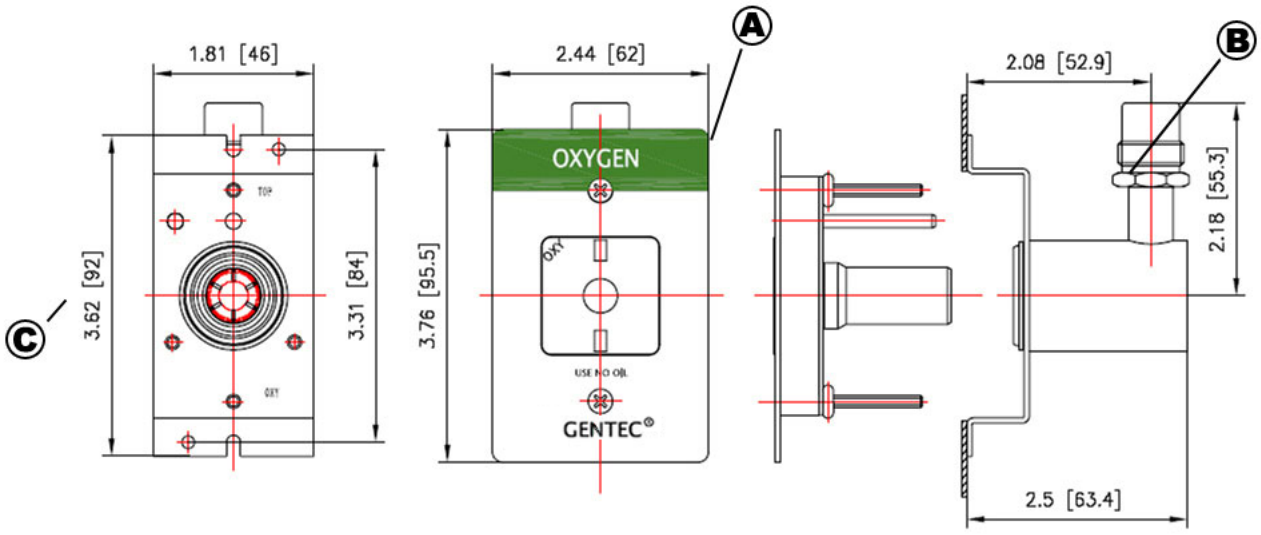
FEATURES

- 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
- 360º swivel inlet for easy installation
- Cleaned for oxygen service
- 100% hydrostatically tested
- Complies with NFPA 99 and CGA G-4.1 standards
- UL Listed

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 gas specific DISS connection extending 1-1/2 inches (38 mm), and swivel 360º 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 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



FRONT SIDE

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)

ORDERING INFORMATION

Gas Service	Ohmeda Compatible Cat No.	Qty	DISS Standard Cat No.	Qty	Chemetron Compatible Cat No.	Qty	Puritan-Bennett Compatible Cat No.	Qty	Rough-in Only Cat No.	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	>	>	>	>	>	Total Qty Required:			

MATERIAL

Latch Valve
Aluminum
ABS Plastic
Steel/Brass+Plating
Stainless Steel
Brass
Neoprene
Rubber

Rough-in
Stainless Steel
ABS Plastic
Neoprene
Steel+Plating
Copper

Trim Plate
Aluminum+Coating

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.

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www.gentechealthcare.com

GENTEC®
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MEDICAL GAS CONSOLE OUTLET 90-DEGREE HOSE BARB

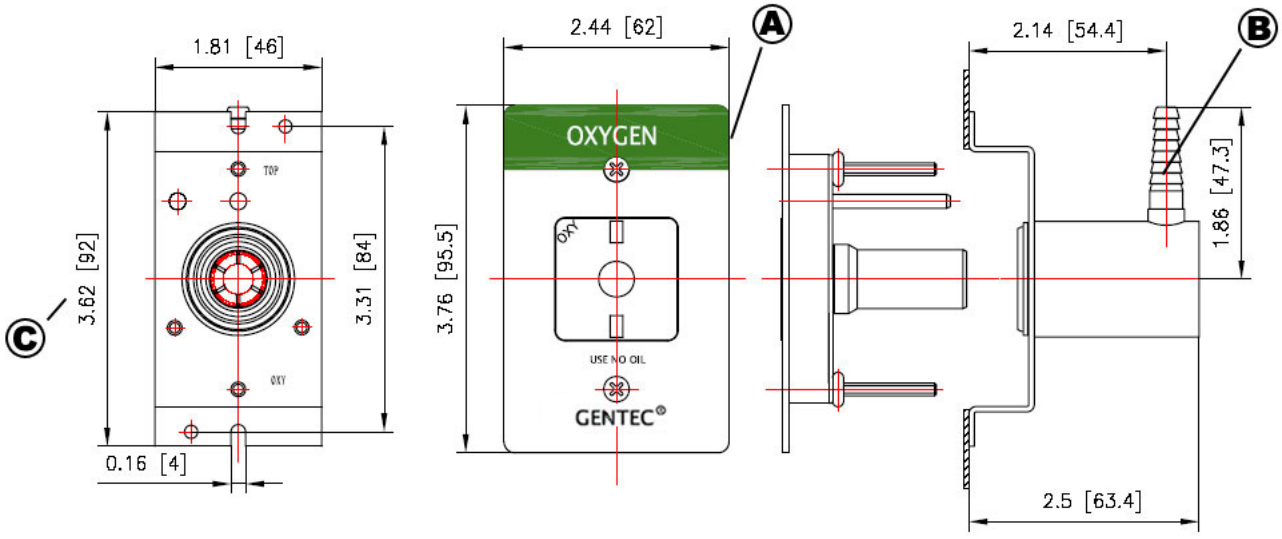
FEATURES

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

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 360º 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.
- 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



FRONT SIDE

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)

ORDERING INFORMATION

Gas Service	Ohmeda Compatible Cat No.	Qty	DISS Standard Cat No.	Qty	Chemetron Compatible Cat No.	Qty	Puritan-Bennett Compatible Cat No.	Qty	Rough-in Only Cat No.	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	>	>	>	>	>	Total Qty Required:			

MATERIAL

Latch Valve
Aluminum
ABS Plastic
Steel/Brass+Plating
Stainless Steel
Brass
Neoprene
Rubber

Rough-in
Stainless Steel
ABS Plastic
Neoprene
Steel+Plating
Copper

Trim Plate
Aluminum+Coating

Ordering Information for Complete Console Outlets (Includes Rough-in, and Latch Valve Assembly). Trim plate optional.
Note: US colors listed. For ISO 32 colors replace "U" with "E" in the above catalog numbers.

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Form No. 9-MS-CBO (Oct. 2010)

GENTEC®
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SLIDE BRACKET WALL AND CONSOLE

3910-Sld

3820-Sld

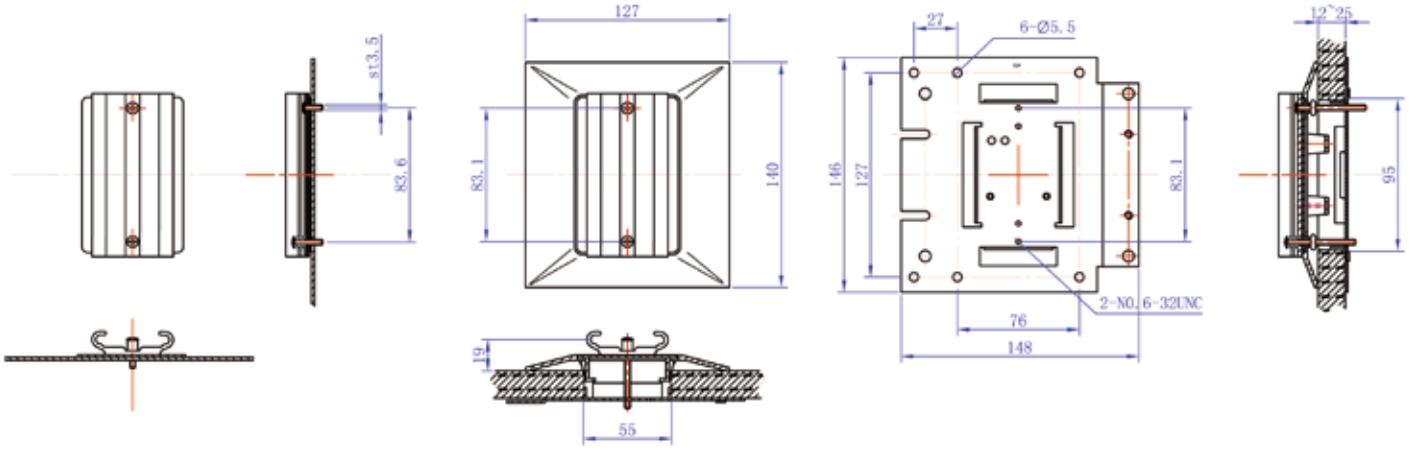
FEATURES

- For use on all surfaces
- Fits reusable 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

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FLY#: MED23V1011-1