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MEDICAL RESPIRATORY GAS PRODUCTS

- ▲ Medical Gas Outlets
- ▲ Oxygen Regulators
- ▲ Suction Regulators
- ▲ Flowmeters
- ▲ Accessories



MEDICAL RESPIRATORY GAS PRODUCTS



GENSTAR TECHNOLOGIES COMPANY, INC.

RESPIRATORY PRODUCTS

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American Medical Gas Outlets

GENTEC® Medical Gas Outlets shall be UL Listed, cleaned for medical gas service, and compliant to the latest edition of NFPA 99. They shall accept only corresponding Ohmeda®, DISS, Chemetron®, or Puritan Bennett® style quick connect adapters. Outlets are designed with an universal rough-in assembly for interchangeability on different quick connects without removing the entire outlet. For outlets providing positive pressure gas, they shall have a primary and secondary check valve, where the secondary check valve allows for servicing without isolating an entire zone.

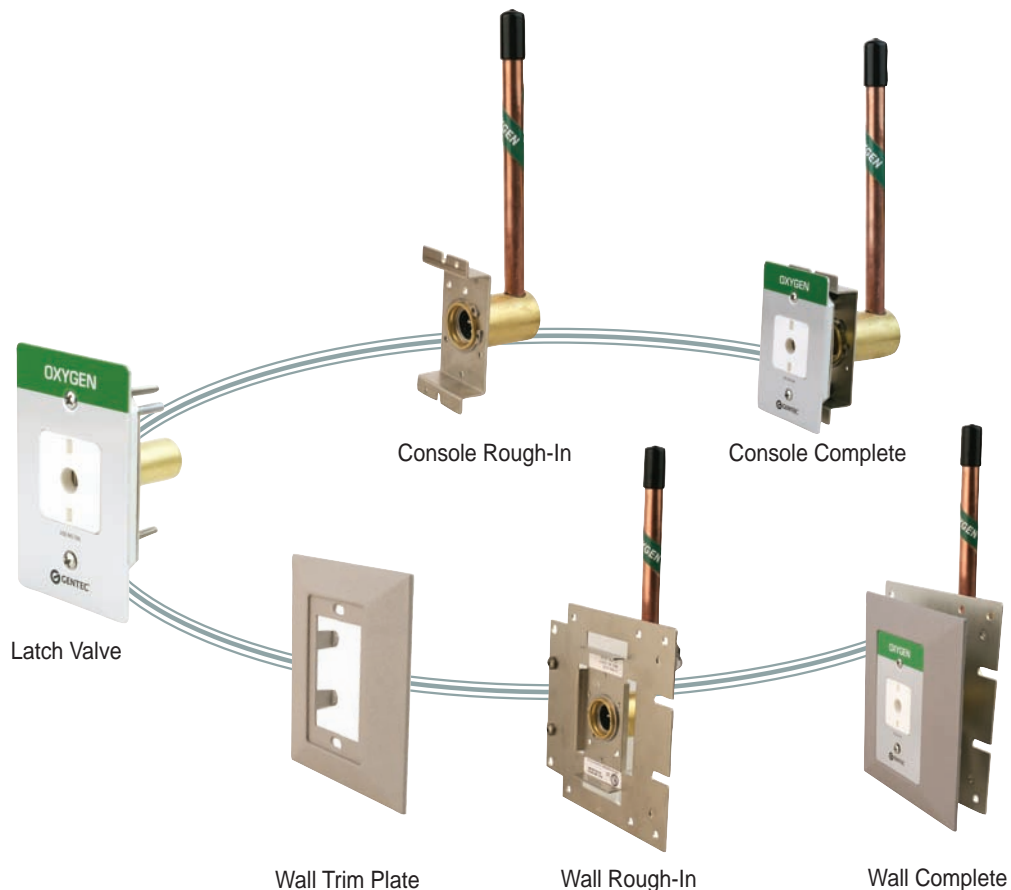
Latch Valve Assembly (front)

The latch-valve assembly shall have gas specific index corresponding to the gas service on the rough-in assembly to prevent interchanging of gas service. Each latch-valve assembly shall be color coded for it's specified gas service.

Rough-In Assembly (back)

The rough-in assembly shall be manufactured using (1/2" outside diameter) type "K" copper tubing, silver-brazed to the outlet body. The tubing allows 360 degrees swivel on the outlet body for easy installation. Rough-in assembly is manufactured to accept only the specified gas service by use of indexes.

Latch Valve Assembly + Rough-In Assembly = Complete Assembly

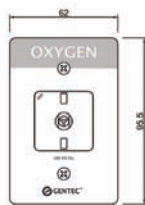


American Medical Gas Outlets

Features

- Accepts only Ohmeda, DISS, Chemetron, or Puritan Bennett style gas specific adapters
- Unique pin index for gases to prevent interchanging of gas service
- Universal rough-in assembly
- Color-coded for easy gas identification
- 360° swivel on the inlet pipe for easy installation
- UL listed and complies to the latest edition of NFPA 99: 2005
- Type K, 3/8" size copper tubing [1/2" real outside diameter (12.7 mm)] or ϕ 10 real outside diameter (8 mm) optional
- 100% tested and individually packaged

Latch Valve Dimensions (units in millimeters):



Ohmeda-Style
Pg 4



DISS-Standard
Pg 5

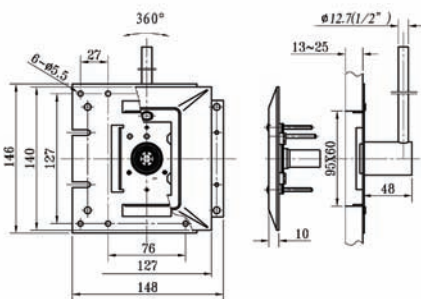


Chemetron-Style
Pg 6

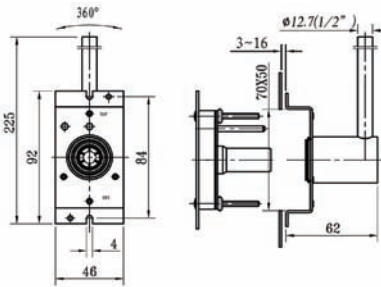


Puritan-Bennett-Style
Pg 7

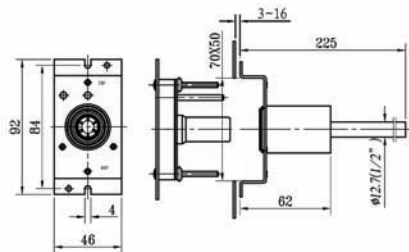
Rough-in Dimensions (units in millimeters):



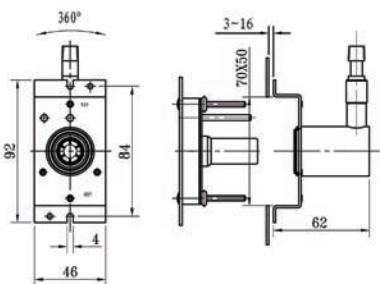
Wall Outlet 90° Tubing



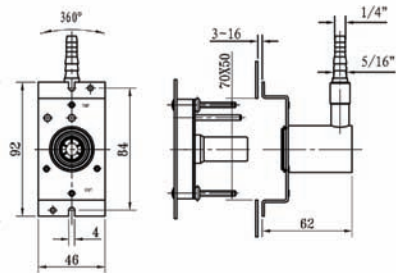
Console Outlet 90° Tubing



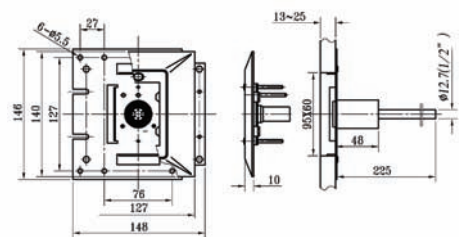
Ceiling Outlet 180° Tubing



EMS Outlet with 90° Diss



EMS Outlet with 90° Hose Barb



Wall Outlet with 180° Rear Tubing

French Medical Gas Outlets

FSO Series

GENTEC French Standard Outlets, FSO series, are for use with medical gas systems. The outlets are designed with safety in mind and fully comply with NF EN 737-1: 1998. Outlets are manufactured in an ISO 9001 and ISO 13485 certified facility.

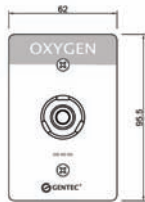
Features

- Gas specific adapters
- Color coded for easy gas service identification according to ISO 32
- Complies with NF EN 737-1: 1998 and NF S 90-116
- UL listed
- 100% tested and individually packaged

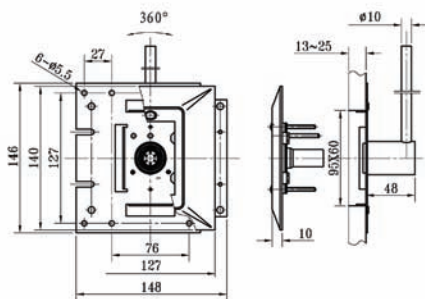


FSO (Afnor Style)

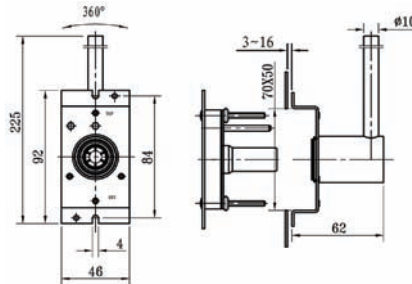
Latch Valve Dimensions (units in millimeters):



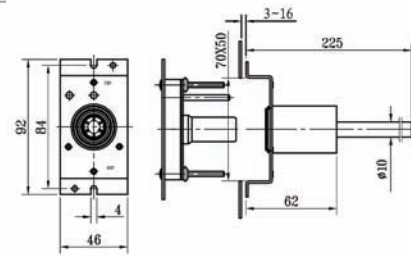
Rough-in Dimensions (units in millimeters):



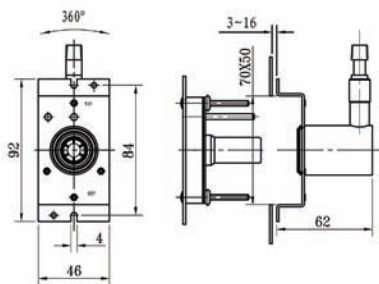
Wall Outlet 90° Tubing



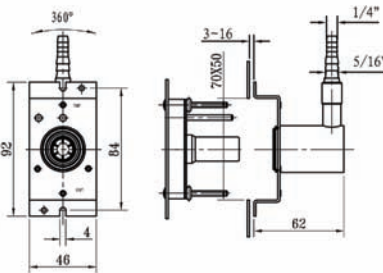
Console Outlet 90° Tubing



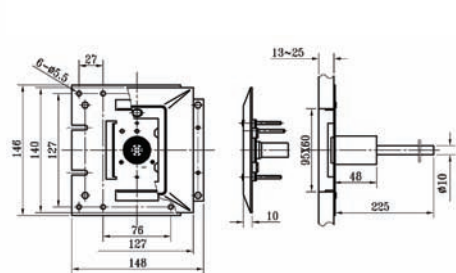
Ceiling Outlet 180° Tubing



EMS Outlet with 90° Diss



EMS Outlet with 90° Hose Barb



Wall Outlet with 180° Rear Tubing

Australian Medical Gas Outlets

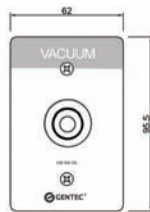
GENTEC Australian Outlets, SIS series, are used for medical gas pipeline. The outlets are designed with safety in mind and fully comply with EN 737-1: 1998. Outlets are manufactured in an ISO 9001 and ISO 13485 certified facility.

Features

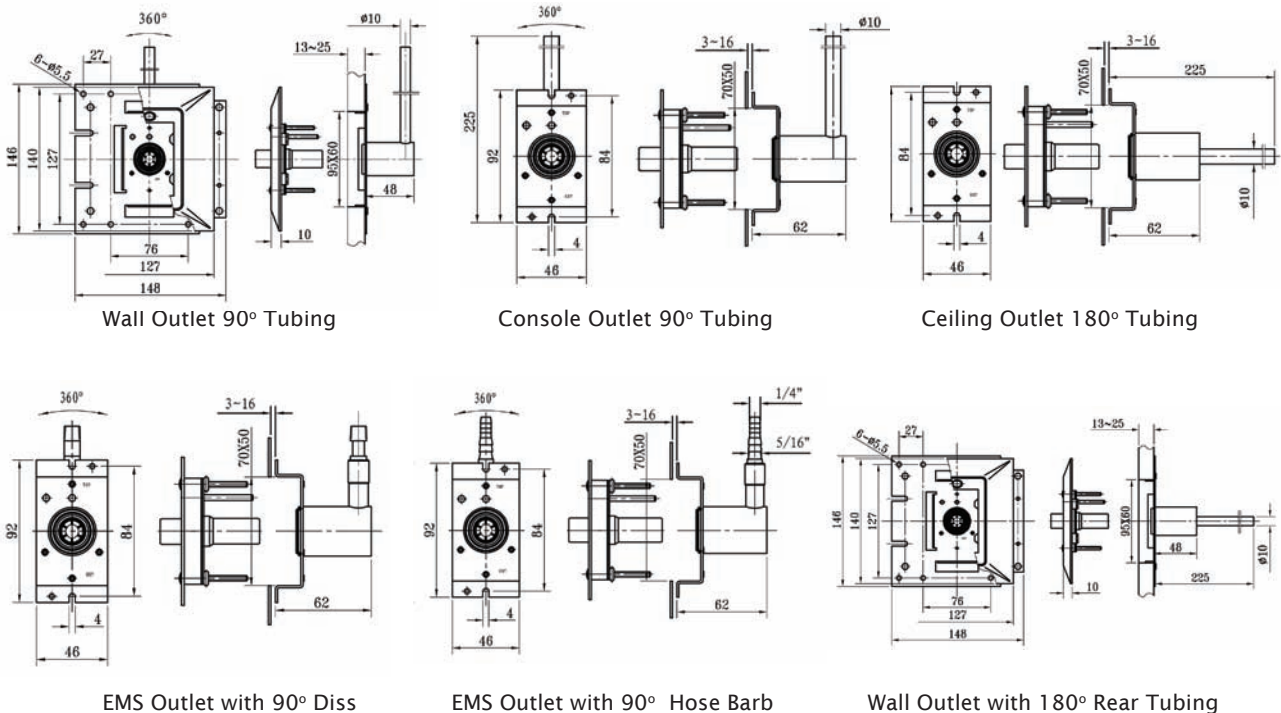
- Gas specific adapters
- Color coded for easy gas service identification
- Complies with EN 737-1: 1998
- Designed in accordance to S.I.S.
(Sleeve Indexed Safety System as per AS 2896)
- 100% tested and individually packaged



Latch Valve Dimensions (units in millimeters):



Rough-in Dimensions (units in millimeters):



Ordering Information

LATCH VALVE ASSEMBLY:



| EXAMPLE: | 39 | 1 | 1 | U | - | O | - | M |
|----------|-----------------|------------------|-------------------------------|------------------------------------|---|---------------------------|---|---------------------------|
| | Outlet Assembly | Console Assembly | Latch Valve Assembly Style | Color Code | | Gas Service | | Pipe |
| | | | 1: Ohmeda Compatible | U: USA Color E: ISO 32 Color ** | | O: Oxygen V: Vacuum | | None: 1/2" M: φ10 real |
| | | | 2: DISS | | | 2: Nitrous Oxide | | |
| | | | 3: Chemetron Compatible | | | A: Medical Air W: WAGD | | |
| | | | 4: Puritan-Bennett Compatible | | | C: Carbon Dioxide * | | |
| | | | 5: French Standard | | | N: Nitrogen * | | |
| | | | 9: Australian Standard | | | IA: Instrument Air * | | |

ROUGH-IN ASSEMBLY:



| EXAMPLE: | 39 | 1 | 1 | U | - | O |
|----------|-----------------|--|-------------------|------------------------------------|---|------------------------------------|
| | Outlet Assembly | Pigtail Orientation | Rough-In Assembly | Color Code | | Gas Service |
| | | 1: Console Outlet 90°Tubing | | U: USA Color E: ISO 32 Color ** | | O: Oxygen V: Vacuum |
| | | 2: Wall Outlet 90°Tubing | | | | 2: Nitrous Oxide A: Medical Air |
| | | 3: Ceiling Outlet 180°Tubing | | | | W: WAGD C: Carbon Dioxide * |
| | | 4: Wall Outlet with 180°Rear Tubing | | | | N: Nitrogen * |
| | | 5: EMS Outlet with 90°DISS | | | | IA: Instrument Air * |
| | | 6: EMS Outlet with 90°Hose Barb | | | | |

*: Only for DISS

** : Designate "E" for Nitrous Oxide, Carbon Dioxide and Nitrogen

Please contact Genstar Technologies Company, Inc. for more information

Ordering Information

COMPLETE ASSEMBLY:



| EXAMPLE: 38 | 1 | 1 | U | - | O | - | M |
|---------------------------|--|----------------------------------|------------------------------------|---|---------------------------------------|---|---------------------------|
| Complete Out-let Assembly | Pigtail Orientation | Latch Valve Assembly Style | Color Code | | Gas Service | | Pipe |
| | 1: Console Outlet 90°Tubing | 1: Ohmeda Compatible | U: USA Color E: ISO 32 Color ** | | O: Oxygen V: Vacuum | | None: 1/2" M: φ10 real |
| | 2: Wall Outlet 90°Tubing | 2: DISS 3: Chemetron | | | 2: Nitrous Oxide A: Medical Air | | |
| | 3: Ceiling Outlet 180°Tubing | Compatible 4: Puritan-Bennett | | | W: WAGD C: Carbon Dioxide * | | |
| | 4: Wall Outlet with 180°Rear Tubing | Compatible 5: French Standard | | | N: Nitrogen * IA: Instrument Air * | | |
| | 5: EMS Outlet with 90°DISS | 9: Australian Standard | | | | | |
| | 6: EMS Outlet with 90°Hose Barb | | | | | | |

*: Only for DISS

** : Designate "E" for Nitrous Oxide, Carbon Dioxide and Nitrogen

Please contact Genstar Technologies Company, Inc. for more information

German Medical Gas Outlets

GSO Series

GENTEC German Standard Outlets, GSO series, are for use with medical gas systems. The outlets are designed with safety in mind and comply fully with DIN EN 737-1: 1998 and DIN 13620-2. Outlets are manufactured in an ISO 9001: 2000 and ISO 13485 registered facility.

- Complies with DIN EN 737-1: 1998 and DIN 13620-2
- Color-coded for easy gas service identification according to ISO 32
- Stops flow of gas before detachment of probe
- Internal gas-specific safety socket
- 100% tested and individually packaged
- 8 mm piping
- CE listed



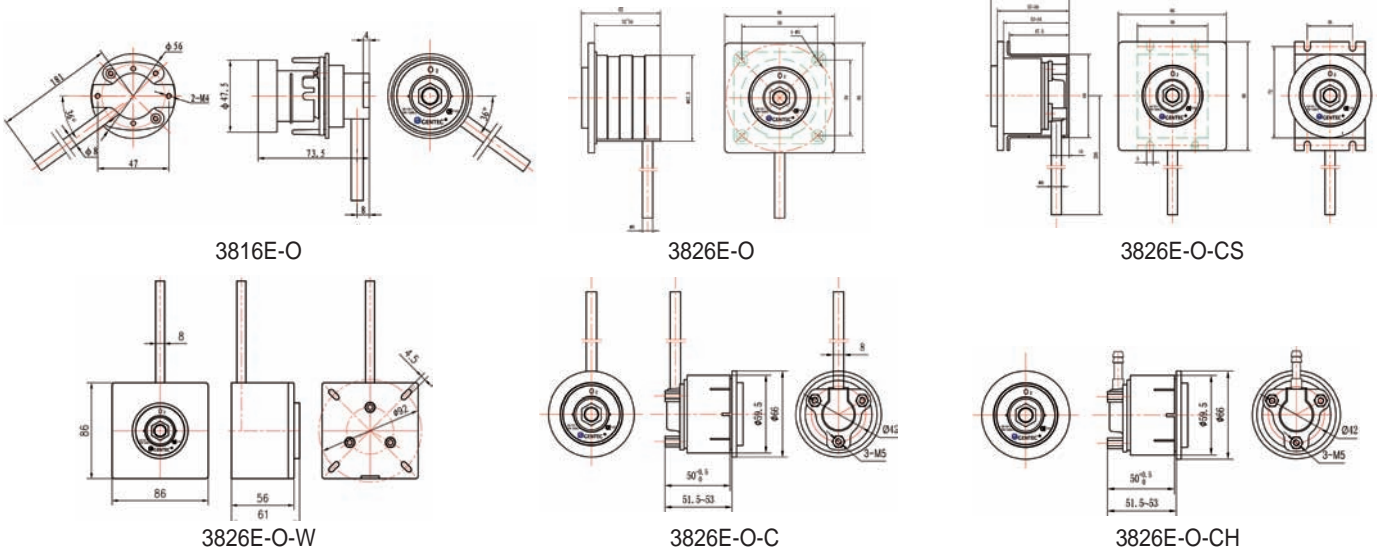
3816E-O

3826E-O

3826E-O-C

3826E-O-W

Dimensions (units in millimeters):



3816E-O

3826E-O

3826E-O-CS

3826E-O-W

3826E-O-C

3826E-O-CH

Ordering Information

| Series | Gas Service | Installation |
|--------|-----------------------------------|--|
| 3816E | O—Oxygen | Nothing — Flush Mount |
| 3826E | V—Vacuum | W—Surface Mount * |
| | 2—Nitrous Oxide | C—Console Without Support * |
| | N—Nitrogen | CS —Console With Support * |
| | A—Medical Air | CH —Hose Barb * |
| | C—Carbon Dioxide | DS —DISS * |
| | W—Anaesthetic Gas(EN737-4 TYPE 2) | *Option available only for 3826E series. |
| | AIR 800—Medical Air 800kPa | |
| | Ar—Argon | |

Please contact Genstar Technologies Company, Inc. for more information

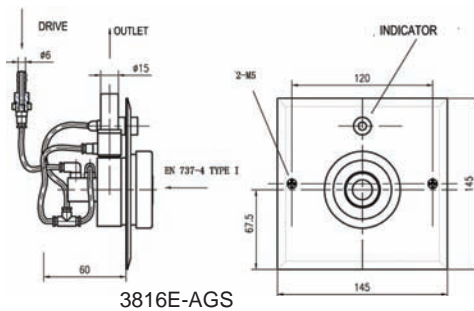
Anaesthetic Gas Scavenging System

- GENTEC Anaesthetic Gas Scavenging System is used for the safe removal of excess anaesthetic gas and anaesthetic vapors.
- Complies with EN 737-2, EN 737-4 (TYPE 1)
- Color-coded for easy gas service identification according to ISO 32
- Flow : 25~50 l/min (Pressure drop: 1~2 kPa)
- Air driving flow : 10~15 l/min (Pressure: 0.4 MPa)
- 15 mm piping
- 100% tested and individually packaged



3816E-AGS

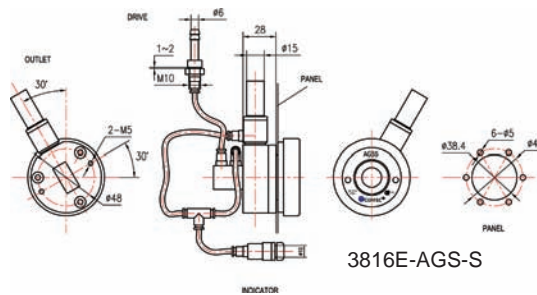
Dimensions (units in millimeters):



3816E-AGS



3816E-AGS-S



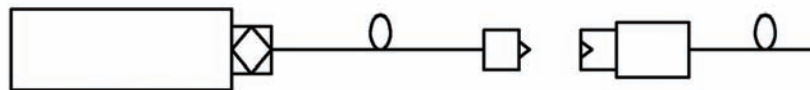
3816E-AGS-S

Illustration:

Apparatus includes breathing system and integral transfer/receiving system

EN 737-4 TYPE 1 Adapter

Anaesthetic gas scavenging system



Ordering Information

| Model | Fixing Mode |
|-------------|---------------|
| 3816E-AGS | with panel |
| 3816E-AGS-S | without panel |

British Medical Gas Outlets

BSO Series

GENTEC British Standard Outlets, BSO series, are for use with medical gas systems. The outlets are designed with safety in mind and comply fully with EN 737-1: 1998, and HTM 2022. Outlets are manufactured in an ISO 9001: 2000 and ISO 13485 registered facility.

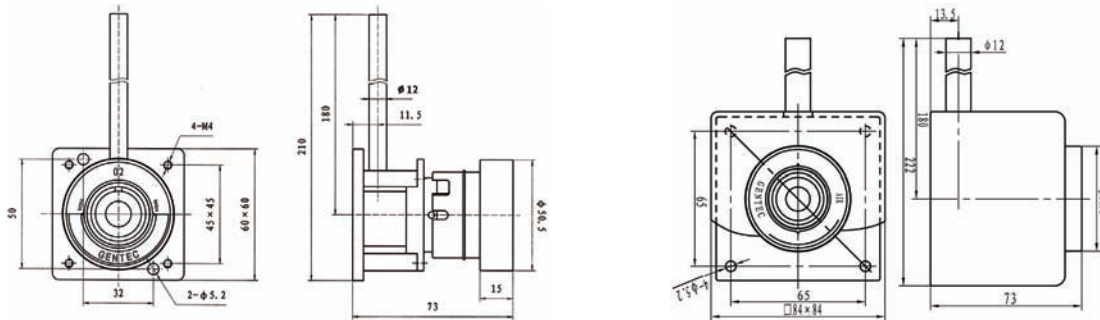
- Complies with EN 737-1: 1998, HTM 2022, BS 5682-1998
- Color-coded for easy gas service identification according to ISO 32
- 100% tested and individually packaged
- Gas-specific adapters
- Swivel pipe design for easy installation
- 12 mm piping
- CE listed



A Console

B Console

Dimensions (units in millimeters):



A Console

B Console

Ordering Information

| EXAMPLE: 3 8 1 7 E - O | | | | |
|---|---------|-----|-----------------|------------------------|
| Serial No. | Console | BSO | Color Code | Gas Service |
| | 1—A | | E—ISO 32 Colors | O—Oxygen |
| | 2—B | | | V—Vacuum |
| | | | | 2—Nitrous Oxide |
| | | | | N—Nitrogen |
| | | | | C—Carbon Dioxide |
| | | | | A—Medical Air |
| | | | | MA7—Medical Air 700kPa |

Please contact Genstar Technologies Company, Inc. for more information

Japanese Medical Gas Outlets

JSO

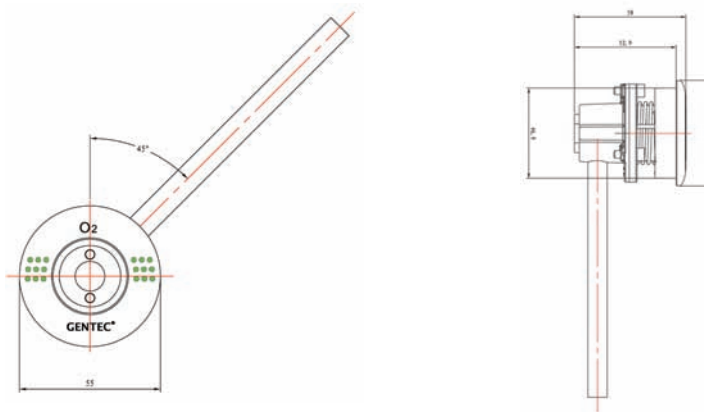
JSO Series

GENTEC Japanese Standard Outlets, JSO series, are for use with medical gas systems.

- Color-coded for easy gas service identification
- 100% tested and individually packaged
- Gas-specific adapters
- Swivel pipe design for easy installation
- 8 mm piping



Dimensions (units in millimeters):



Ordering Information

| | | | | | |
|--------------|---------|-----|-----------------|---|------------------|
| EXAMPLE: 3 8 | 1 | 8 | E | - | O |
| Serial No. | Console | JSO | Color Code | | Gas Service |
| | | | E—ISO 32 Colors | | O—Oxygen |
| | | | | | V—Vacuum |
| | | | | | 2—Nitrous Oxide |
| | | | | | N—Nitrogen |
| | | | | | C—Carbon Dioxide |
| | | | | | A—Medical Air |

Please contact Genstar Technologies Company, Inc. for more information

Bed Console

- GENTEC Bedhead Consoles are available in a single trunk (3900A) or dual trunk (3900AD) setup. Both versions can be customized to meet unique room dimensions.
- GENTEC Bedhead Consoles accept GENTEC medical gas terminal units.
- Consoles are designed for easy maintenance. Modular design allows for customer specific customizations such as different standard electrical outlets, gas terminal units, and multimedia needs.
- Units come pre-wired and pre-piped for easy installation. Each unit shall be 100% factory tested.



Flowmeter Regulators

- Back pressure compensated flowmeters
- 3000 psi maximum inlet pressure
- Flow range: 0~15 LPM
- For use with oxygen cylinders



191M-15L

Piston-type Regulator with Flowmeter and CGA540 Nut and Nipple Inlet



197M-15L

Diaphragm-type Regulator with Flowmeter and CGA540 Nut and Nipple Inlet



195M-15L

Diaphragm-type Regulator with Flowmeter and CGA540 Nut and Nipple Inlet



195M-540D

Diaphragm-type Regulator without Flowmeter, with CGA540 Nut and Nipple Inlet

| Model Number | Delivery Flow | Inlet Connection* | Working Pressure | Body |
|--------------|---------------|-------------------|------------------|---------------------|
| 191M-15L | 0-15 LPM | CGA540 | 50 psi | Chrome-plated Brass |
| 197M-15L | 0-15 LPM | CGA540 | 50 psi | Chrome-plated Brass |
| 195M-15L | 0-15 LPM | CGA540 | 50 psi | Chrome-plated Brass |
| 191M-15LY | 0-15 LPM | CGA870 | 50 psi | Chrome-plated Brass |
| 197M-15LY | 0-15 LPM | CGA870 | 50 psi | Chrome-plated Brass |
| 195M-15LY | 0-15 LPM | CGA870 | 50 psi | Chrome-plated Brass |
| 195M-540D | | CGA540 | 50 psi | Chrome-plated Brass |

* International connections optional: BS 341 no.3 add "-BS", DIN 477 no.9 add "-GS", JIS 22-R add "-JS"

Example: 191M-15L-GS for DIN 477 no.9 inlet connection

Heliox Flowmeter Regulator

Heliox Flowmeter Regulators are designed for use in respiratory urgent care and respiratory treatment purposes. The GENTEC Heliox Flowmeter Regulator is calibrated for 80/20 heliox (80% helium / 20% oxygen) . Use our heliox flowmeter regulator to avoid the conversion errors that occur when using standard oxygen or air flowmeters.

- Flowmeter calibrated for heliox 80/20 mixture
- Back-pressure compensated
- Polycarbonate tubes for longer service life
- Chrome-plated brass body
- Maximum inlet pressure: 3000 psi
- 2" pressure gauge for easy reading
- Flow range: 0~12 LPM
- CGA 280 inlet connection



197HX-12L
Heliox Flowmeter Regulator
with CGA280 inlet

Flowmeter Regulators With Humidifiers

- Chrome plated brass body regulator
- 891M with piston-type regulator design
- 895M with diaphragm-type design
- Back pressure compensated flowmeters
- 3000 psi maximum inlet pressure
- For use with oxygen cylinder



891M-15L

895M-15L

897M-15L

Flowmeter Regulators with Humidifiers and CGA540 Nut and Nipple Inlet

| Model Number | Delivery Flow | Inlet Connection* | Working Pressure |
|--------------|---------------|-------------------|------------------|
| 891M-15L | | | |
| 895M-15L | 0-15 LPM | CGA540 | 50 psi |
| 897M-15L | | | |
| 891M-15LY | | | |
| 895M-15LY | 0-15 LPM | CGA870 | 50 psi |
| 897M-15LY | | | |

* International connections optional: BS 341 no.3 add "-BS", DIN 477 no.9 add "-GS", JIS 22-R add "-JS"

Example: 891M-15L-GS for DIN 477 no.9 inlet connection

Oxygen Flowmeter with Humidifier

FM891 & FM897 Series

- Polycarbonate flow tube and outer cover are impact resistant for maximum durability and service life
- Chrome-plated brass (FM891, FM897B) or Anodized aluminum body (FM897A)
- With choices of quick connections: Ohmeda, DISS, Chemetron, Puritan-Bennett, FS, GS, BS, JIS, SIS
- Back pressure compensated and calibrated at 50 psi *



FM891-15L-XX



FM897B-15L-XX

XX: Type of Inlet Adapter

00: No adapter (1/8" female NPT)

OH: Ohmeda connection

DISS: DISS connection

CH: Chemetron connection

PB: Puritan-Bennett connection

FS: French Standard connection

GS: German Standard connection

BS: British Standard connection

JIS: Japanese Standard connection

SIS: Australian Standard connection



FM897A-15L-XX



FM897A-15L2-XX

| Model Number | Delivery Flow | Working Pressure |
|----------------|---------------|------------------|
| FM891-15L-XX | 0-15 LPM | 50 psi * |
| FM897A-15L-XX | | |
| FM897A-15L2-XX | | |
| FM897B-15L-XX | | |

* Optional calibration for 65 psi available. Please add E after liters per minute. Example: FM891-15LE-XX

Oxygen & Air Flowmeter

FM191 & FM197 Series Oxygen Flowmeter

- Slim body flowmeter
- Available in anodized aluminum (FM197A) or chrome-plated brass body (FM191, FM197B)
- Polycarbonate tubes for maximum durability
- Back-pressure compensated
- Flow range: 0~15 LPM
- Calibrated at 50 psi *
- CE listed



FM191-15L-XX
chrome-plated
brass body



FM197A-15L-XX
anodized aluminum
body



FM197B-15L-XX
chrome-plated
brass body

FM181 & FM187 Series Air Flowmeter

- Slim body flowmeter
- Available in anodized aluminum (FM187A) or chrome-plated brass body (FM181, FM187B)
- Back-pressure compensated
- Flow range: 0~15 LPM
- Calibrated at 50 psi *



FM181-15L-XX
chrome-plated
brass body



FM187A-15L-XX
anodized aluminum
body



FM187B-15L-XX
chrome-plated
brass body

CFM Series Dial Style Flowmeter

- Available in Oxygen
- Available in 4, 8, 15 and 25 LPM,
- Smallest and lightest in the industry
- Smallest increment is 1/32
- Color coded labelling for specific gas
- Calibrated at 50 psi
- Encased in an anodized aluminum housing
- Easy to read window



CFM-15L-XX
dial flowmeter

XX: Type of Inlet Adapter

| | |
|-----------------------------------|-------------------------------------|
| 00: No adapter (1/8" female NPT) | OH: Ohmeda connection |
| DISS: DISS connection | CH: Chemetron connection |
| PB: Puritan-Bennett connection | FS: French Standard connection |
| GS: German Standard connection | BS: British Standard connection |
| JIS: Japanese Standard connection | SIS: Australian Standard connection |

* Optional calibration for 65 psi available. Please add E after liters per minute. Example: FM191-15LE-XX

Flowmeters Accessories



Y-FNT2
Y Connector , 3-1/8-
NPT Female



FM-PTO
Power Take Off Connector
with Check Valve



FM197B-20
Rail Clamp, for
Flowmeter & Suction
Regulator



FM-IPPB
360° Connector
with Check Valve



Oxygen Humidifiers

Oxygen humidifiers are used to help humidify the Oxygen or Medical Air administered to the patient through respiratory tubes. Gentec humidifiers are designed to be shatter proof. Our reusable series is designed to be resistant against high temperature (134°C Autoclavable) during disinfecting procedures.



7100R



7200R

7100R & 7200R

- Polycarbonate bottles are impact resistant for maximum durability and service life.
- Pressure relief valve on cover to vent excess pressure
- DISS 1240 inlet connection

| Model | Volume | Note |
|-------|--------|-----------|
| 7100R | 300 ml | Re-usable |
| 7200R | 140 ml | Re-usable |

Suction Regulators

Mode Selector Switch

- Clearly marked indicator
- GENTEC suction regulators are available in continuous only (882 Series) and continuous-intermittent (881 Series)
- 160 mmHg and 200 mmHg are available in pediatric, 300 mmHg is available in adult, and 760 mmHg is available in surgical
- Factory default settings for INT (on/off) cycles on the 881 series is 16 seconds on, 8 seconds off. On/off settings can be adjusted

Control Knob

- Can adjust vacuum pressure easily
- No suction leakage

Suction Trap

- Prevents contamination caused by overflow



881VR-300-XX
Continuous / Intermittent
0-300 mmHg, Clockwise

Glow in the Dark Gauge

- 2-1/2" gauge, easy to read
- Color coded flow ranges
- Dual Scale mmHg and kPa
- Clockwise or counterclockwise mode

Face Cover

- High-quality ABS case body for long durability
- Impact-resistant internal components minimize damage if regulator is hit or dropped
- Easy to clean, wipe down with sterilant













Interior Structure

- Few mechanical parts for easy maintenance
- Corrosion free
- Lightweight

Fittings

- GENTEC provides a wide range of fittings to meet customers' needs

Suction Regulators

| | 881VR Series Continuous / Intermittent | | | 882VR Series Continuous-only | | | |
|-------------------------------|--|--|--|---|--|--|---|
| Clockwise |  881VR-160 pediatric |  881VR-200 |  881VR-300 adult |  882VR-160 pediatric |  882VR-200 |  882VR-300 adult |  882VR-760 surgical |
| Counter-Clockwise |  881VR-160E pediatric | |  881VR-300E adult |  882VR-160E pediatric | |  882VR-300E adult |  882VR-760E surgical |
| Mode Selection: | | | | | | | |
| OFF | √ | √ | √ | √ | √ | √ | √ |
| CONT | √ | √ | √ | √ | √ | √ | √ |
| INT | √ | √ | √ | X | X | X | X |
| FULL | X | X | X | X | √ | √ | √ |
| Regulated Vacuum Range | 0~160mmHg | 0~200mmHg | 0~300mmHg | 0~160mmHg | 0~200mmHg | 0~300mmHg | 0~760mmHg |
| Gauge Display Range | 0~160mmHg | 0~200mmHg | 0~300mmHg | 0~160mmHg | 0~200mmHg | 0~300mmHg | 0~760mmHg |
| Gauge Accuracy | 4% | 4% | 4% | 4% | 4% | 4% | 4% |
| Flow Rate | >50 l/min (CONT) 7-9 l/min (INT) | >55 l/min (CONT) 7-9 l/min (INT) | >60 l/min (CONT) 7-9 l/min (INT) | >50 l/min | >55 l/min | >60 l/min | >70 l/min |
| Weight | 17.6 oz. / 0.5 Kg | | | 14 oz. / 0.5 Kg | | | |
| Dimensions | 6.3" H x 3.15" W x 3.94" D / 16 x 8 x 10 cm | | | 6.3" H x 3.15" W x 3.94" D / 16 x 8 x 10 cm | | | |

Suction Regulators



Back Fitting

Bottom Fitting

| | |
|--|---|
|  |  |
| OH: Ohmeda 3101-VAC-NT2 | FS 3101-VAC-NT2 |
|  |  |
| DH: DISS Hand-tight 3222-VAC-NT2 | GS 3116-VAC-NT2 |
|  |  |
| DH: DISS Hex 3222-VAC-NT2 | BS 3117-VAC-NT2 |
|  |  |
| CH: Chemetron 3103-VAC-NT2 | JIS 3108-VAC-NT2 |
|  |  |
| PB: Puritan-Bennett 3104-VAC-NT2 | SIS 3109-VAC-NT2 |

| | | | |
|---|---|---|---|
|  |  |  |  |
| T: Suction trap Assembly (complete) | B: Trap Fitting Only (No TRAP) | C: DISS Male Vacuum | D: Tubing Nipple (5/16" Hose Barb) |

Suction Regulators

Suction Regulator Ordering Information

881VR - 300 D E - 00 - T

SERIES:

881VR: Continuous / Intermittent
882VR: Continuous-only

RANGE:

160: 0~160 mmHg
200: 0~200 mmHg
300: 0~300 mmHg
760: 0~760 mmHg
(Only for 882VR)

GAUGE DIRECTION:

None: Clockwise
E: Counter-clockwise (ISO)

OUTLET (BACK FITTING):

00: No Fitting (1/8" NPT Female)
OH: Ohio Quick-Connect
DS: DISS Female Nut & Nipple
CH: Chemetron Quick-Connect
PB: Puritan-Bennett Quick-Connect
DH: DISS Hand-tight
FS: French Standard Connection (AFNOR)
BS: British Standard Connection (BS)
GS: German Standard Connection (DIN)
JIS: Japanese Standard Connection
SIS: Australian Standard Connection

RUN MODEL:

None: Instant off
D: Instant on (Only for 881VR series)

INLET (BOTTOM FITTING):

T: Suction trap Assembly (complete)
A: No Fitting (1/8" NPT Female)
B: Trap Fitting Only (No TRAP)
C: DISS Male Vacuum
D: Tubing Nipple (5/16" Hose Barb)







Suction Gauges & Suction Traps

Suction Gauges

| | | | | |
|-------------------|--|--|---|---|
| Clockwise |  |  |  |  |
| | GR25PM-V160 (0 ~ 160 mmHg) | GR25PM-V200 (0 ~ 200 mmHg) | GR25PM-V300 (0 ~ 300 mmHg) | GR25PM-V760 (0 ~ 760 mmHg) |
| Counter-Clockwise |  |  |  | |
| | GR25PM-V160-E (0 ~ 160 mmHg) | GR25PM-V300-E (0 ~ 300 mmHg) | GR25PM-V760-E (0 ~ 760 mmHg) | |
| | | | | |

880VT Suction Traps

Suction traps prevent contamination caused by overflow

| 880VT-0 | 880VT-1 | 880VT-2 | 880VT-3 | 880VT-4 | 880VT-5 |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| 880VT-0 with no fitting on top (1/8" NPT female) | 880VT-1 with male trap fitting only | 880VT-2 with DISS female nut & nipple vacuum fitting | 880VT-3 with DISS female vacuum hand-tight | 880VT-4 with tubing nipple (5/16" hose barb) | 880VT-5 with complete trap fitting assembly (male & female) |

Canisters

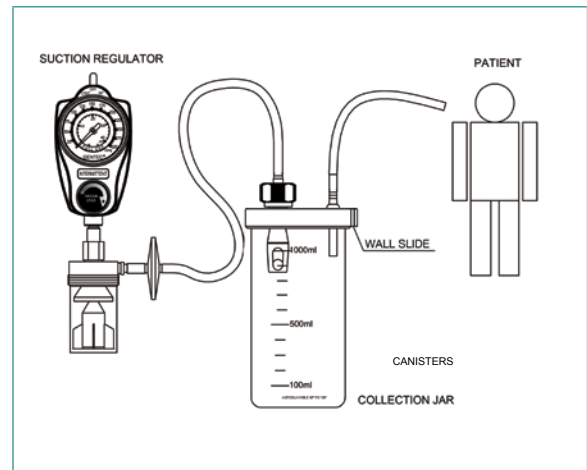
GENTEC SJ series reusable canisters are manufactured for durable, autoclavable (134°C) polycarbonate with anodized aluminum covers. DJ series canisters are disposable.

SJ Series

- 1 liter, 1.5 liter, and 2.5 liter models available
- The SJ-1000 series comes with a polycarbonate jar and anodized aluminum cover
- The SJ-1500 and SJ-2500 Series comes with polycarbonate jar and cover
- Built-in bracket for use with Gentec wall slides
- Polycarbonate jar for maximum durability
- Ball float design prevents overflow
- GENTEC SJ series reusable canisters are manufactured to be durable and autoclavable (up to 134°C)

DJ Series

- Holds 0.85 liter, 1 liter, and 2 liter
- Hose barb inlet and outlet
- Suitable for one time use



| | | | | | | | |
|---------------------------|---|---|---|---|---|---|---|
| Model |  |  |  |  |  |  |  |
| | SJ-1000A | SJ-1000B | SJ-1500 | SJ-2500 | DJ-850 | DJ-1000 | DJ-2000 |
| Volume | 1 L | 1 L | 1.5 L | 2.5 L | 0.85 L | 1 L | 2 L |
| Vacuum Connection | DISS | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) |
| Patient Connection | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) | Hose Barb (φ 6-8) |

Accessories

Wall Slide

- For use on all surfaces
- Fits reusable and disposable
- Bottle brackets



Canister Holder

- Designed to support canisters
- Stable 5-caster base with two locking casters
- Durable construction, easy to clean
- Supports up to 4 canisters



Suction Tubing

| Model | Description |
|---------|--|
| ST6-4 | Ø6 (1/4") x 4 m, with Suction Tip |
| ST6-100 | Ø6 (1/4") x 100 m, without Suction Tip |
| ST8-4 | Ø8 (1/4") x 4 m, with Suction Tip |
| ST8-100 | Ø8 (1/4") x 100 m, without Suction Tip |



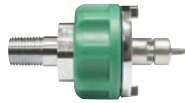










Filter

- Prevents contamination and fluid from entering the vacuum regulator and vacuum systems









| Model | Description |
|----------|---------------------------------------|
| FILTM-01 | Non-Hydrophobic, Connection: 1/4",NPT |
| FILTM-02 | Hydrophobic, Connection: 1/4",NPT |



Medical Gas Adapters

| | | Gases | Model Number | | Connections |
|---|--|----------------|---------------------|-----------------|-----------------|
| Ohmeda | | | | | |
|  | | Oxygen | 3111U-OXY-NT2 | | 1/8" NPT Male |
| | | Vacuum | 3111U-VAC-NT2 | | 1/8" NPT Male |
| | | Medical air | 3111U-AIR-NT2 | | 1/8" NPT Male |
| | | Nitrous Oxide | 3111U-N2O-NT2 | | 1/8" NPT Male |
| | | WAGD | 3111U-WAG-NT2 | | 1/8" NPT Male |
|  | | Oxygen | 3111U-OXY-HB4 | | 1/4" Hose Barb |
| | | Vacuum | 3111U-VAC-HB5 | | 5/16" Hose Barb |
| | | Medical air | 3111U-AIR-HB4 | | 1/4" Hose Barb |
| | | Nitrous Oxide | 3111U-N2O-HB4 | | 1/4" Hose Barb |
| | | WAGD | 3111U-WAG-HB5 | | 5/16" Hose Barb |
| DISS | | | | | |
| | | | Hex | Hand Tight | |
|  | | Oxygen | 3102-OXY-NT2 | | 1/8" NPT Male |
| | | Vacuum | 3102-VAC-NT2 | | 1/8" NPT Male |
| | | Medical air | 3102-AIR-NT2 | | 1/8" NPT Male |
| | | Nitrous Oxide | 3102-N2O-NT2 | | 1/8" NPT Male |
| | | WAGD | 3102-WAG-NT2 | | 1/8" NPT Male |
|  | | Carbon dioxide | 3102-CO2-NT2 | | 1/8" NPT Male |
| | | Nitrogen | 3102-NIT-NT2 | | 1/8" NPT Male |
| | | Oxygen | 3102-OXY-HB4 | | 1/4" Hose Barb |
| | | Vacuum | 3102-VAC-HB5 | | 5/16" Hose Barb |
| | | Medical air | 3102-AIR-HB4 | | 1/4" Hose Barb |
| | | | Hex | Hand Tight | |
|  | | Nitrous Oxide | 3102-N2O-HB4 | | 1/4" Hose Barb |
| | | WAGD | 3102-WAG-HB5 | | 5/16" Hose Barb |
| | | Carbon dioxide | 3102-CO2-HB4 | | 1/4" Hose Barb |
| | | Nitrogen | 3102-NIT-HB4 | | 1/4" Hose Barb |
| | | Oxygen | 3102-OXY-HB4 | | 1/4" Hose Barb |
| Chemetron | | | | | |
|  | | Oxygen | 3103-OXY-NT2 | | 1/8" NPT Male |
| | | Vacuum | 3103-VAC-NT2 | | 1/8" NPT Male |
| | | Medical air | 3103-AIR-NT2 | | 1/8" NPT Male |
| | | Nitrous Oxide | 3103-N2O-NT2 | | 1/8" NPT Male |
| | | WAGD | 3103-WAG-NT2 | | 1/8" NPT Male |
|  | | Oxygen | 3103-OXY-HB4 | | 1/4" Hose Barb |
| | | Vacuum | 3103-VAC-HB5 | | 5/16" Hose Barb |
| | | Medical air | 3103-AIR-HB4 | | 1/4" Hose Barb |
| | | Nitrous Oxide | 3103-N2O-HB4 | | 1/4" Hose Barb |
| | | WAGD | 3103-WAG-HB5 | | 5/16" Hose Barb |
| Puritan-Bennett | | | | | |
| | | | Chrome-plated Brass | Stainless Steel | |
|  | | Oxygen | 3104-OXY-NT2 | | 1/8" NPT Male |
| | | Vacuum | 3104-VAC-NT2 | | 1/8" NPT Male |
| | | Medical air | 3104-AIR-NT2 | | 1/8" NPT Male |
| | | Nitrous Oxide | 3104-N2O-NT2 | | 1/8" NPT Male |
| | | WAGD | 3104-WAG-NT2 | | 1/8" NPT Male |
|  | | Oxygen | 3104-OXY-HB4 | | 1/4" Hose Barb |
| | | Vacuum | 3104-VAC-HB5 | | 5/16" Hose Barb |
| | | Medical air | 3104-AIR-HB4 | | 1/4" Hose Barb |
| | | Nitrous Oxide | 3104-N2O-HB4 | | 1/4" Hose Barb |
| | | WAGD | 3104-WAG-HB5 | | 5/16" Hose Barb |
| FS (AFNOR TYPE: NF S 90-116) | | | | | |
|  | | Oxygen | 3105E-OXY-NT2 | | 1/8" NPT Male |
| | | Vacuum | 3105E-VAC-NT2 | | 1/8" NPT Male |
| | | Medical air | 3105E-AIR-NT2 | | 1/8" NPT Male |
| | | Nitrous Oxide | 3105E-N2O-NT2 | | 1/8" NPT Male |
| | | Oxygen | 3105E-OXY-HB4 | | 1/4" Hose Barb |
|  | | Vacuum | 3105E-VAC-HB5 | | 5/16" Hose Barb |
| | | Medical air | 3105E-AIR-HB4 | | 1/4" Hose Barb |
| | | Nitrous Oxide | 3105E-N2O-HB4 | | 1/4" Hose Barb |

Medical Gas Adapters

| | Gases | Model Number | Connections |
|---|--------------------|---------------|-----------------|
| GS (DIN TYPE: DIN 13260-2) | | | |
|  | Oxygen | 3116-OXY-NT2 | 1/8" NPT Male |
| | Vacuum | 3116-VAC-NT2 | 1/8" NPT Male |
| | Medical air | 3116-AIR-NT2 | 1/8" NPT Male |
| | Nitrous Oxide | 3116-N2O-NT2 | 1/8" NPT Male |
| | Carbon dioxide | 3116-CO2-NT2 | 1/8" NPT Male |
| | Nitrogen | 3116-NIT-NT2 | 1/8" NPT Male |
| | Anaesthetic Gas | 3116-W-NT2 | 1/8" NPT Male |
| | Medical Air 800kPa | 3116-AIR8-NT2 | 1/8" NPT Male |
| | Argon | 3116-Ar-NT2 | 1/8" NPT Male |
|  | Oxygen | 3116-OXY-HB4 | 1/4" Hose Barb |
| | Vacuum | 3116-VAC-HB5 | 5/16" Hose Barb |
| | Medical air | 3116-AIR-HB4 | 1/4" Hose Barb |
| | Nitrous Oxide | 3116-N2O-HB4 | 1/4" Hose Barb |
| | Carbon dioxide | 3116-CO2-HB5 | 5/16" Hose Barb |
| | Nitrogen | 3116-NIT-HB4 | 1/4" Hose Barb |
| | Anaesthetic Gas | 3116-W-HB5 | 5/16" Hose Barb |
| | Medical Air 800kPa | 3116-AIR8-HB4 | 1/4" Hose Barb |
| | Argon | 3116-Ar-HB4 | 1/4" Hose Barb |
| BS (BS TYPE: BS 5682-1998) | | | |
|  | Oxygen | 3117-OXY-NT2 | 1/8" NPT Male |
| | Vacuum | 3117-VAC-NT2 | 1/8" NPT Male |
| | Medical air | 3117-AIR-NT2 | 1/8" NPT Male |
| | Nitrous Oxide | 3117-N2O-NT2 | 1/8" NPT Male |
| | Carbon dioxide | 3117-CO2-NT2 | 1/8" NPT Male |
| | Nitrogen | 3117-NIT-NT2 | 1/8" NPT Male |
| | Medical Air 700kPa | 3117-MA7-NT2 | 1/8" NPT Male |
|  | Oxygen | 3117-OXY-HB4 | 1/4" Hose Barb |
| | Vacuum | 3117-VAC-HB5 | 5/16" Hose Barb |
| | Medical air | 3117-AIR-HB4 | 1/4" Hose Barb |
| | Nitrous Oxide | 3117-N2O-HB4 | 1/4" Hose Barb |
| | Carbon dioxide | 3117-CO2-HB4 | 1/4" Hose Barb |
| | Nitrogen | 3117-NIT-HB4 | 1/4" Hose Barb |
| | Medical Air 700kPa | 3117-MA7-HB4 | 1/4" Hose Barb |
| JIS | | | |
|  | Oxygen | 3108-OXY-NT2 | 1/8" NPT Male |
| | Vacuum | 3108-VAC-NT2 | 1/8" NPT Male |
| | Medical air | 3108-AIR-NT2 | 1/8" NPT Male |
|  | Nitrous Oxide | 3108-N2O-NT2 | 1/8" NPT Male |
| | Oxygen | 3108-OXY-HB4 | 1/4" Hose Barb |
| | Vacuum | 3108-VAC-HB5 | 5/16" Hose Barb |
| | Medical air | 3108-AIR-HB4 | 1/4" Hose Barb |
| | Nitrous Oxide | 3108-N2O-HB4 | 1/4" Hose Barb |
| EN737-4 TYPE 1 | | | |
|  | Anaesthetic gas | 3106-AGS | 3/4" Hose Barb |
| EN737-4 TYPE 2 | | | |
|  | Anaesthetic gas | 3106-W | 5/16" Hose Barb |

Click-Style Regulators

- 284MA, 285MA, 286MB series are oxygen regulators
287MA, 288MA series are air regulators
- Chrome-plated brass body (286MB) or Aluminum body with brass high pressure chamber
- 3000 psi maximum inlet pressure
- 1-1/2" diameter UL-listed gauge
- Complies to CGA standards
- Internal relief valve
- Hose barb outlet
- Piston design regulator
- Sintered bronze inlet filter for longer service life
- Easy to read flow rate window



284MA-15LY
Click-Style Regulator with Hose Barb Outlet



285MA-8LY
Mini Click-Style Regulator with Hose Barb Outlet



286MB-15LY2
Click-Style Regulator with two DISS Outlets



287MA-15LY
Click-Style Regulator with Hose Barb Outlet



288MA-8LY
Mini Click-Style Regulator with Hose Barb Outlet

| Model | Flow Settings(LPM) | DISS Outlet(s) | Delivery Pressure (psi) | Inlet connection* |
|---|--|----------------|-------------------------|-------------------|
| Click-Style Oxygen Regulators | | | | |
| 284MA-4L | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA540 |
| 284MA-8L | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA540 |
| 284MA-15L | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA540 |
| 284MA-25L | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA540 |
| 284MA-15L1 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 1 | 50 | CGA540 |
| 284MA-25L1 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 1 | 50 | CGA540 |
| 284MA-15L2 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 2 | 50 | CGA540 |
| 284MA-25L2 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 2 | 50 | CGA540 |
| 284MA-4LY | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA870 |
| 284MA-8LY | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA870 |
| 284MA-15LY | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA870 |
| 284MA-25LY | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA870 |
| 284MA-15LY1 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 1 | 50 | CGA870 |
| 284MA-25LY1 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 1 | 50 | CGA870 |
| 284MA-15LY2 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 2 | 50 | CGA870 |
| 284MA-25LY2 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 2 | 50 | CGA870 |
| MINI Click-Style Oxygen Regulators | | | | |
| 285MA-4L | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA540 |
| 285MA-8L | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA540 |
| 285MA-15L | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA540 |
| 285MA-25L | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA540 |
| 285MA-4LY | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA870 |
| 285MA-8LY | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA870 |
| 285MA-15LY | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA870 |
| 285MA-25LY | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA870 |

Click-Style Regulators

| Model | Flow Settings(LPM) | DISS Outlet(s) | Delivery Pressure (psi) | Inlet connection* |
|--|--|----------------|-------------------------|-------------------|
| Click-Style Oxygen Regulators | | | | |
| 286MB-4L | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA540 |
| 286MB-8L | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA540 |
| 286MB-15L | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA540 |
| 286MB-25L | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA540 |
| 286MB-15L1 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 1 | 50 | CGA540 |
| 286MB-25L1 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 1 | 50 | CGA540 |
| 286MB-15L2 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 2 | 50 | CGA540 |
| 286MB-25L2 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 2 | 50 | CGA540 |
| 286MB-4LY | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA870 |
| 286MB-8LY | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA870 |
| 286MB-15LY | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA870 |
| 286MB-25LY | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA870 |
| 286MB-15LY1 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 1 | 50 | CGA870 |
| 286MB-25LY1 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 1 | 50 | CGA870 |
| 286MB-15LY2 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 2 | 50 | CGA870 |
| 286MB-25LY2 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 2 | 50 | CGA870 |
| Click-Style Air Regulators | | | | |
| 287MA-4L | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA346 |
| 287MA-8L | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA346 |
| 287MA-15L | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA346 |
| 287MA-25L | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA346 |
| 287MA-15L1 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 1 | 50 | CGA346 |
| 287MA-25L1 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 1 | 50 | CGA346 |
| 287MA-15L2 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 2 | 50 | CGA346 |
| 287MA-25L2 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 2 | 50 | CGA346 |
| 287MA-4LY | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA950 |
| 287MA-8LY | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA950 |
| 287MA-15LY | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA950 |
| 287MA-25LY | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA950 |
| 287MA-15LY1 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 1 | 50 | CGA950 |
| 287MA-25LY1 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 1 | 50 | CGA950 |
| 287MA-15LY2 | 0,0.5,1,2,3,4,5,6,7,8,10,15 | 2 | 50 | CGA950 |
| 287MA-25LY2 | 0,0.5,1,2,3,4,5,6,8,10,15,25 | 2 | 50 | CGA950 |
| MINI Click-Style Air Regulators | | | | |
| 288MA-4L | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA346 |
| 288MA-8L | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA346 |
| 288MA-15L | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA346 |
| 288MA-25L | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA346 |
| 288MA-4LY | 0,0.25,0.5,0.75,1,1.25,1.5,2,2.5,3,3.5,4 | - | 50 | CGA950 |
| 288MA-8LY | 0,0.5,1,1.5,2,2.5,3,4,5,6,7,8 | - | 50 | CGA950 |
| 288MA-15LY | 0,0.5,1,2,3,4,5,6,7,8,10,15 | - | 50 | CGA950 |
| 288MA-25LY | 0,0.5,1,2,3,4,5,6,8,10,15,25 | - | 50 | CGA950 |

* International connections optional: BS 341 no.3 add "-BS", DIN 477 no.9 add "-GS", JIS 22-R add "-JS"

Example: 284MA-15L-GS for DIN 477 no.9 inlet connection

Flow Gauge Regulators

- Chrome-plated brass body
- 3000 psi maximum inlet pressure
- 1-1/2" diameter gauges
- Internal relief valve
- Piston-type regulator design
- Sintered inlet filter for longer service life
- Dual scale pressure gauge: psi and kPa
- With choice of DISS connection
- Hose barb adapter included
- Fixed orifice



230M-5-2
Compact Flow Gauge Regulator
with CGA540 Nut and Nipple Inlet



230M-8Y1-1
Single Gauge Regulator
with Hose Barb Outlet and
CGA870 Yoke Inlet



230M-8YR-1
Flow Gauge Regulator
with Hose Barb Outlet, Rear
Entry Gauges and CGA870
Yoke Inlet

| Model | Gases | Flow Range | Inlet Connection | Length | Outlet Connection |
|-------------|---|------------|------------------|--------|-------------------|
| 230M-5-2 | Oxygen | 0-5 LPM | CGA540 | 2" | 9/16-18UNF |
| 230M-5Y-2 | Oxygen | 0-5 LPM | CGA870 | 2" | 9/16-18UNF |
| 230M-8-2 | Oxygen | 0-8 LPM | CGA540 | 2" | 9/16-18UNF |
| 230M-8Y-2 | Oxygen | 0-8 LPM | CGA870 | 2" | 9/16-18UNF |
| 230M-8Y1-1 | Oxygen | 0-8 LPM | CGA870 | 1-1/8" | 1/4" Hose Barb |
| 230M-8YR-1 | Oxygen | 0-8 LPM | CGA870 | 1-1/8" | 1/4" Hose Barb |
| 230M-15-2 | Oxygen | 0-15 LPM | CGA540 | 2" | 9/16-18UNF |
| 230M-15Y-2 | Oxygen | 0-15 LPM | CGA870 | 2" | 9/16-18UNF |
| 230M-15YN-4 | N ₂ O & O ₂ Mixture | 0-15 LPM | CGA965 | 3.6" | 9/16-18UNF |
| 230M-45YN-4 | N ₂ O & O ₂ Mixture | 0-45 LPM | CGA965 | 3.6" | 9/16-18UNF |



230M-5A-6
Extended Flow Gauge Regulator
with CGA540 Nut and Nipple Inlet

| Model | Gases | Flow Range | Inlet Connection | Length | Outlet Connection |
|------------|--------|------------|------------------|--------|-------------------|
| 230M-5A-6 | Oxygen | 0-5 LPM | CGA540 | 6" | 9/16-18UNF |
| 230M-8A-6 | Oxygen | 0-8 LPM | CGA540 | 6" | 9/16-18UNF |
| 230M-15A-6 | Oxygen | 0-15 LPM | CGA540 | 6" | 9/16-18UNF |

Flow Gauge Regulators

- Chrome-plated brass body
- 3000 psi maximum inlet pressure
- 1-1/2" diameter gauges
- Internal relief valve
- Diaphragm-type regulator design
- Sintered inlet filter for longer service life
- Dual scale pressure gauge: psi and kPa
- Adjustable setting



190M-8Y-2

Flow Gauge Regulator with CGA870 Yoke Inlet

| Model | Gases | Flow Range | Inlet Connection | Length | Outlet Connection |
|------------|--------|------------|------------------------|--------|-------------------|
| 190M-5-2 | Oxygen | 0-5 LPM | CGA540 | 2" | 9/16-18UNF |
| 190M-5H-3 | Oxygen | 0-5 LPM | CGA540 (Handtight Nut) | 3" | 9/16-18UNF |
| 190M-5Y-2 | Oxygen | 0-5 LPM | CGA870 | 2" | 9/16-18UNF |
| 190M-8-2 | Oxygen | 0-8 LPM | CGA540 | 2" | 9/16-18UNF |
| 190M-8H-3 | Oxygen | 0-8 LPM | CGA540 (Handtight Nut) | 3" | 9/16-18UNF |
| 190M-8Y-2 | Oxygen | 0-8 LPM | CGA870 | 2" | 9/16-18UNF |
| 190M-15-2 | Oxygen | 0-15 LPM | CGA540 | 2" | 9/16-18UNF |
| 190M-15H-3 | Oxygen | 0-15 LPM | CGA540 (Handtight Nut) | 3" | 9/16-18UNF |
| 190M-15Y-2 | Oxygen | 0-15 LPM | CGA870 | 2" | 9/16-18UNF |



210M-15YR-1

Flow Gauge Regulator with Rear Entry Gauges and CGA870 Yoke Inlet



210M-45YN-2

Extended Flow Gauge Regulator with Rear Entry Gauges and CGA965 Yoke Inlet

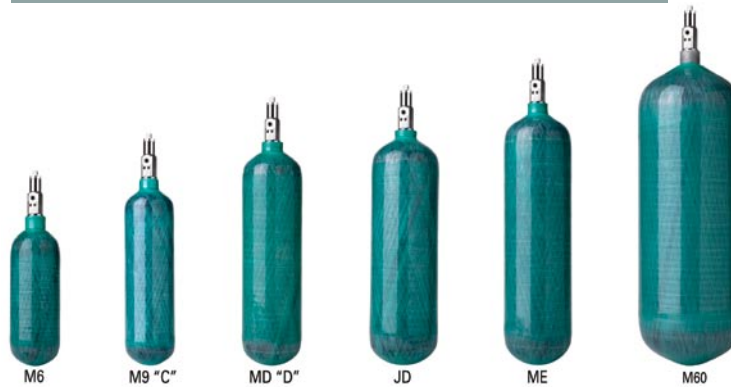
| Model | Gases | Flow Range | Inlet Connection | Length | Outlet Connection |
|-------------|---|------------|------------------|--------|-------------------|
| 210M-5R-1 | Oxygen | 0-5 LPM | CGA540 | 1-1/8" | 9/16-18UNF |
| 210M-5YR-1 | Oxygen | 0-5 LPM | CGA870 | 1-1/8" | 9/16-18UNF |
| 210M-8R-1 | Oxygen | 0-8 LPM | CGA540 | 1-1/8" | 9/16-18UNF |
| 210M-8YR-1 | Oxygen | 0-8 LPM | CGA870 | 1-1/8" | 9/16-18UNF |
| 210M-15R-1 | Oxygen | 0-15 LPM | CGA540 | 1-1/8" | 9/16-18UNF |
| 210M-15YR-1 | Oxygen | 0-15 LPM | CGA870 | 1-1/8" | 9/16-18UNF |
| 210M-45YN-2 | N ₂ O & O ₂ Mixture | 0-45 LPM | CGA965 | 2" | 9/16-18UNF |

Aluminum Cylinders



| Model | Mfg No. | Oxygen | Capacity | Outer Diameter | | Height | | Empty Weight | |
|-----------|---------|-----------|----------|----------------|--------|--------|--------|--------------|------|
| | | Cubic ft. | Liters* | in | mm | in | mm | lb | kg |
| CYLM4-8T | M4 | 4 | 113 | 3 | 76.2 | 9 | 228.6 | 1.6 | 0.7 |
| CYLM6-8T | M6 | 5.8 | 164.5 | 3.21 | 81.41 | 11.8 | 299 | 2.2 | 1 |
| CYLM6A-8T | M6A | 6 | 171.1 | 4.38 | 111.13 | 7.8 | 198.12 | 2.8 | 1.3 |
| CYLM9-8T | M9 "C" | 8.8 | 248.4 | 4.38 | 111.13 | 10.6 | 270 | 3.7 | 1.7 |
| CYLM9-8T | MD "D" | 14.6 | 414.6 | 4.38 | 111.13 | 16.2 | 411.2 | 4.9 | 2.2 |
| CYLMJD-8T | JD | 22.9 | 647.1 | 5.25 | 133.35 | 17.1 | 435.1 | 8.9 | 4 |
| CYLM9-8T | E | 24.1 | 682.2 | 4.38 | 111.13 | 25.2 | 639.8 | 7.3 | 3.3 |
| CYLM60-8T | M60 | 60.9 | 1723.6 | 7.25 | 184.15 | 23.5 | 569.9 | 22.5 | 10.2 |
| CYLM9-8T | MM | 121.9 | 3452.5 | 8 | 203.2 | 36.3 | 922.3 | 40 | 18.1 |

Carbon Composite Cylinders



| Model | Mfg No. | Oxygen | Capacity | Outer Diameter | | Height | | Empty Weight | |
|-----------|---------|-----------|----------|----------------|-----|--------|-----|--------------|-----|
| | | Cubic ft. | Liters* | in | mm | in | mm | mm | lb |
| CMCM6-8T | M6 | 6.4 | 183 | 3.3 | 85 | 9.9 | 251 | 1.5 | 0.7 |
| CMCM9-8T | M9 "C" | 8.6 | 244 | 3.3 | 84 | 12.2 | 310 | 1.7 | 0.8 |
| CMCMD-8T | MD "D" | 15.4 | 437 | 4 | 10 | 14.7 | 373 | 2.9 | 1.3 |
| CMCJD-8T | JD | 21.6 | 616 | 4.5 | 114 | 15.5 | 394 | 3.3 | 1.5 |
| CMCME-8T | ME | 24.1 | 687 | 4.5 | 114 | 17.2 | 437 | 3.7 | 1.7 |
| CMCM60-8T | M60 | 66 | 1867 | 6.8 | 172 | 20.7 | 526 | 9.3 | 4.2 |

*Approximate gaseous liters when calculated with 2000psig pressure in cylinder for oxygen

Cylinder Valves



| Model | Connection | Outlet Connection |
|----------|------------|-------------------|
| GMV-870T | 3/4"-16UNF | CGA870 |
| GMV-870W | 3/4"-16UNF | CGA870 |
| GMV-965W | 3/4"-16UNF | CGA965 |
| GMV-540 | 3/4"-16UNF | CGA540 |

Refilling Bridge

- Fill gas to small cylinders



CRB-CGA540-CGA870
Refilling Bridge with CGA540 inlet connection, CGA870 outlet connection

Note: Please contact Genstar Technologies Company, Inc. for more information.

Medical Hoses

- Available in custom lengths and configurations
- Available in a variety of gases
- Available in USA and ISO colors

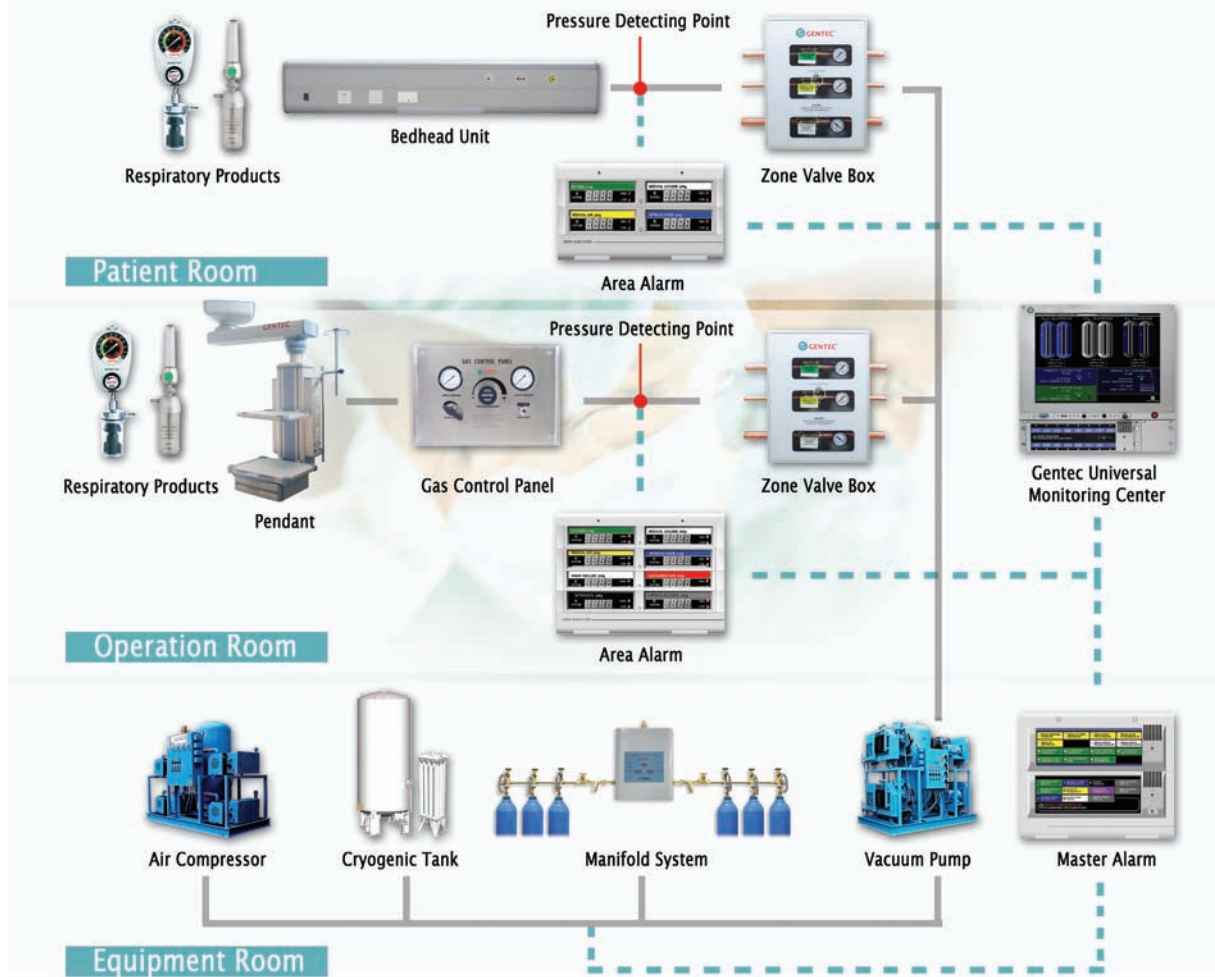


| Model | Standard | Color | USA Gas Service | ISO Gas Service |
|------------|----------|--------|-----------------|-----------------|
| 3400GR-XXX | 1/4" | Green | Oxygen | / |
| 3400WH-XXX | 1/4" | White | Vacuum | Oxygen |
| 3400YE-XXX | 1/4" | Yellow | Medical Air | Vacuum |
| 3400BL-XXX | 1/4" | Blue | Nitrous Oxide | Nitrous Oxide |
| 3400PU-XXX | 1/4" | Purple | WAGD | WAGD |
| 3400GY-XXX | 1/4" | Grey | Carbon Dioxide | Carbon Dioxide |
| 3400BK-XXX | 1/4" | Black | Nitrogen | Nitrogen |
| 3500GR-XXX | 5/16" | Green | Oxygen | / |
| 3500WH-XXX | 5/16" | White | Vacuum | Oxygen |
| 3500YE-XXX | 5/16" | Yellow | Medical Air | Vacuum |
| 3500BL-XXX | 5/16" | Blue | Nitrous Oxide | Nitrous Oxide |
| 3500PU-XXX | 5/16" | Purple | WAGD | WAGD |
| 3500GY-XXX | 5/16" | Grey | Carbon Dioxide | Carbon Dioxide |
| 3500BK-XXX | 5/16" | Black | Nitrogen | Nitrogen |

XXX: lengths

Medical Gas Flow Solutions

MEDICAL GAS FLOW SOLUTIONS



Conversion Factors for Units of Pressure

| TO CONVERT FROM TO | psi | mbar | bar | atm | Pa | KPa | MPa | cm H ₂ O @20 °C | in H ₂ O @20 °C | ft H ₂ O @20 °C | mm Hg @20 °C | in Hg @20 °C | kg/cm ² | ft.sea water |
|---------------------------|--|---------|---------------------------|----------------------------|---------|---------|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------|--|-----------------------------|---------------------------|
| psi | 1 | 68.9476 | .0689476 | .0680460 | 6894.76 | 6.89476 | 6.89476 x 10 ⁻³ | 70.433 | 27.730 | 2.3108 | 51.7149 | 2.03602 | .0703069 | 2.2457 |
| mbar | .0145038 | 1 | .001 | 9.86923 x 10 ⁻⁴ | 100 | .1 | .0001 | 1.0215 | .040218 | .03352 | .75006 | .0295300 | .0010197 | .032571 |
| bar | 14.5038 | 1000 | 1 | .986923 | 100000 | 100 | .1 | 1021.5 | 402.18 | 33.52 | 750.06 | 29.5300 | 1.109716 | 32.571 |
| atm | 14.6965 | 1013.25 | 1.01325 | 1 | 101325 | 101.325 | .101325 | 1035.08 | 407.511 | 35.959 | 760.0 | 29.9213 | 1.033227 | 33.032 |
| Pa | 1.450 ³⁸ x 10 ⁻⁴ | .01 | .00001 | 9.86923 x 10 ⁻⁶ | 1 | .001 | .000001 | .010215 | .0040218 | 3.352 x 10 ⁻⁴ | 7.5006 x 10 ⁻⁴ | 2.953 ⁰⁰ x 10 ⁻⁴ | 1.019716 x 10 ⁻⁵ | 3.2571 x 10 ⁻⁴ |
| KPa | .145038 | 10.0 | .010 | .0098692 | 1000 | 1 | .001 | 10.215 | 4.02118 | .3352 | 7.5006 | .295300 | .0101972 | .32571 |
| MPa | 145.0238 | 10000 | 10 | 9.8692 | 1000000 | 1000 | 1 | 10215 | 4021.18 | 335.2 | 7500.6 | 295.300 | 10.1972 | 325.71 |
| cm H ₂ O@20 °C | .014198 | .97891 | 9.7891 x 10 ⁻⁴ | 9.66105 x 10 ⁻⁴ | 97.891 | .097891 | 9.7891 x 10 ⁻⁵ | 1 | .3937 | .035281 | .73424 | .028907 | 9.9821x 10 ⁻⁴ | .031884 |
| in H ₂ O@20 °C | .036063 | 2.4684 | .0024684 | 2.45932 x 10 ⁻³ | 248.64 | .24864 | 2.4864 x 10 ⁻⁴ | 2.5400 | 1 | .083333 | 1.8650 | .073424 | .0025354 | .080986 |
| ft H ₂ O@20 °C | .432756 | 29.8368 | .0298368 | .294470 | 2983.68 | 2.98368 | 2.98368 x 10 ⁻³ | 30.480 | 12 | 1 | 22.380 | .881089 | .030425 | .97183 |
| mm Hg@20 °C | 0193368 | 1.33322 | .0013332 | .0013158 | 133.322 | .133322 | 1.33322 x 10 ⁻⁴ | 1.3619 | .53620 | .04468 | 1 | .03937 | .0013595 | .043424 |
| in Hg@20 °C | .491154 | 33.8639 | .0338639 | .0334211 | 3386.39 | 3.38639 | 3.3869 x 10 ⁻³ | 34.593 | 13.619 | 1.13491 | 25.400 | 1 | .0345316 | 1.1030 |
| kg/cm ² | 14.2233 | 980.665 | .980665 | .967842 | 98060.5 | 98.0665 | .0980665 | 1001.8 | 394.41 | 32.868 | 735.559 | 28.959 | 1 | 31.9410 |
| ft.sea water | .4453 | 30.702 | .030702 | .030301 | 3070.2 | 3.0702 | 3.0702 x 10 ⁻³ | 31.3638 | 12.3482 | 1.02900 | 23.029 | .90664 | .031308 | 1 |

Conversion Factors for Units of Flow

| TO CONVERT FROM TO | I/SEC | I/MIN(LPM) | m ³ /h | m ³ /min | ft ³ /h(SCFH) | ft ³ /min |
|--------------------------|---------|------------|-------------------|---------------------|--------------------------|----------------------|
| I/SEC | 1 | 60 | 3.6 | .06 | 127.14 | 2.119 |
| I/MIN(LPM) | .016667 | 1 | .06 | .001 | 2.119 | .035317 |
| m ³ /h | 0.27777 | 16.667 | 1 | .016667 | 35.3165 | .058861 |
| m ³ /min | 16.667 | 1000 | 60 | 1 | 2119 | 35.3165 |
| ft ³ /h(SCFH) | .007865 | .47188 | .028315 | .00047188 | 1 | .016667 |
| ft ³ /min | .47188 | 28.3153 | 1.6989 | .028315 | 60 | 1 |

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