GENTEC®

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# OXYGEN & SUCTION THERAPY *International Edition*

Flowmeters with Humidifiers I Medical Gas Regulators I Air/Oxygen Blenders I Suction Regulators I Collection Systems

*Solutions for Life*

TÜV SÜD

# GENTEC®

# New Products

## CFM Series Click Style Flowmeter

- Available in Oxygen, Medical Air
- Available in 4, 8, 15 and 25 LPM
- Smallest and lightest in the industry
- Smallest increment is 1/32 LPM
- Calibration at 50* psi
- Encased in an anodized aluminum housing
- Easy to read window

## 130M Series Medical Regulator

Performance driven design for powering ventilators and devices at 120 LPM

- Cleaned for oxygen service per CGA 4.1
- Durable chrome-plated brass body
- 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

## GMX Series Heliox Blenders

- Suitable for use in Emergency Room and ICU where accurate oxygen concentration is required
- Double-ended proportioning valve enables easy adjustment of oxygen concentration from 21% to 100%.
- Two-stage pressure-balancing mechanism is adopted to deliver steady oxygen concentration.
- Two outlet ports and bleed valve allow a wide range of applications
- Internal bypass and alarm mechanism ensure safe use.
- Accuracy: ± 3% FS

## FMX20 Series Air / Oxygen Mixer

The FM20 Series Air/Oxygen Mixer is an affordable method to mix air and oxygen for flow and FIO2 control.

- Includes pole mount for easy mounting and transport
- Quiet Operation
- Lower Cost of ownership and maintenance compared to blenders
- Durable and reliable technology

## Company Overview

Genstar Technologies Company, Inc (GENTEC®), founded in 1969, is a world class manufacturer of high quality apparatus for high purity, medical and industrial markets.

For the medical industry, GENTEC® provides high quality products such as medical gas flow control systems, regulators, terminal-units, architectural products, and gas alarm systems.

## Quality Assurance

GENTEC® manufactures its products in an ISO 13485 certified 396,000 square foot manufacturing facility in order to ensure the highest quality.

## Corporate Culture & Management, Training

Gentec strives to instill employee confidence, team spirit, enthusiasm, and self-improvement. The company culture enables employees to provide outstanding customer service, excellent product quality, and continuous technological innovation.

Gentec believes in constant improvement to maintain its competitive edge. The company continues to invest considerable time and effort in developing comprehensive training programs to help its employees to fully realize their potential. All new employees take part in a series of training programs within the first two months of their employment.

## Core Competency

Gentec's core competency is rooted in the research, development, and production of components, equipment, and systems. The research and development team consists of professionals from various fields, such as chemical engineering, material science, mechanical engineering, electrical engineering, and software programming.

## Advanced Laboratorial Testing Devices

The state-of-the-art laboratory features a coordinate measuring system, flow rate measurement system, oxygen concentration monitor, micro-hardness tester, metallurgical microscope, spring testing machine, helium-leak detector, and profilometer. These high-end devices ensure product performance and quality.

## OXYGEN THERAPY

## SUCTION THERAPY

# OXYGEN THERAPY

Flowmeters with Humidifiers

## Flowmeter

- Polycarbonate outer and inner tubes for maximum durability and service life
- Dual-sided scale, easy to read dual-sided scale covers 180 degrees viewing angles
- Elongated Scale, provides better visual accuracy from 0-5 LPM. The scaling from 0-5 LPM covers half the flowtube
- Back pressure compensated and calibrated at 50* psi

Dual-side Scale

*\* Calibration pressure of 65 psi is also available*

## Type of Inlet Adapter

- 00: No adapter (1/8" Female NPT)
- OH: Ohmeda® adapter
- DS: DISS hex adapter
- DH: DISS Handwheel 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 (JIS T7101) adapter
- SIS: Australian (AS2896) adapter

## Control Knob

- Allows steady adjustment of flowrate
- Aluminum construction for durability
- Color Coding available in ISO 32 or NFPA 99

## Fittings

- CGA 1240 connection
- Easily connects with humidifiers or nebulizers

## Pressure Relief Valve

- Pressure relief valve on cover to vent excess pressure

NFPA          ISO32

## Filter

- Internal micro filter prevents inhalation of debris
- Reusable

**FM897A-15L2-OH**
Flowmeter with Humidifier
Oxygen(0-15L) OH inlet adapter

## Humidifier

- Our reusable series is designed to be autoclavable up to 121°C during disinfecting procedures
- DISS 1240 inlet adapter
- Polycarbonate bottles are impact resistant for maximum durability and service life

CE 0123

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## FM19X & FM18X Series Medical Flowmeters

### Oxygen Flowmeters

### Air Flowmeters

Hose Barb

3100E-HB-01(Green)

3100E-HB-01(White)

3102A-OXY-HB4
3102P-OXY-HB4

**FM197A-15L-00**
Round Tube Anodized Aluminum
Body, NFPA 99 Color

**FM197B-15L-00E**
Round Tube Chrome-plated
Brass Body, ISO 32 Color

**FM197A-15L-00-AIR**
Round Tube Anodized Aluminum
Body, NFPA 99 Color

**FM197B-15L-00E-AIR**
Round Tube Chrome-plated
Brass Body, ISO 32 Color

### Features

- Slim body flowmeter
- Available in anodized aluminum (FM197A) or chrome-plated brass body ( FM197B)
- Polycarbonate tubes for maximum durability
- Back-pressure compensated
- Flow range: 1 LPM, 3 LPM, 6 LPM,15 LPM, 30 LPM, 50 LPM, 70 LPM
- Available in ISO colors
- Calibrated at 50* psi
- CE listed

\*   MRI Compatible models available, please add -MRI at the end of the model
    Example: FM197A-15L-00-MRI
\*\* Optional calibration for 65 psi available. This option shall come with ISO 32 color coding. Please add "E" after liters per minute.
    Example: FM197A-15LE-00
\*\*\* For ISO 32 colors with 50 psi calibration please add "E" after the connector
    Example: FM197A-15L-00E
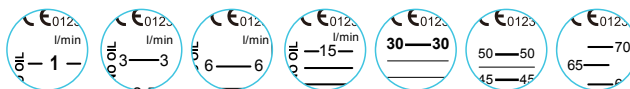
Dual Flowmeter
with Y Connector

Dual Flowmeter
with T Connector

Flowmeter with
Power Take Off Connector
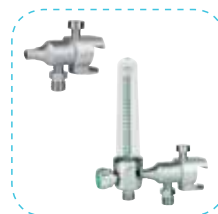
Flowmeter with
Rail Clamp (DISS)

Flowmeter with
Rail Clamp (Hose Barb)

Flowmeter with
360° Connector

## FM293 Series Neonatal, Perinatal and Specialty Flowmeters

FM293-200CC-X

FM293-16L-Q

### Features

- Precise flow control
- Range: 200 cc/min，1LPM，3LPM，16LPM，75LPM, 200cc and 1LPM model are designed for perinatal and neonatal applications where extreme accuracy and very low flow is required.
- Acrylic block construction
- Square shape design for easy reading
- Back pressure compensated and calibrated at 50* psi
- Maximum inlet pressure：100 psi
- Inlet: 1/8" NPT(F)，Outlet: 9/16"-18UNF(M)
- Accuracy：200 cc/min ~ 3 LPM：±10% full range
  　　　　　 16 ~ 75 LPM：±5% full range

\* Optional calibration for 65 psi available. This option shall come with ISO 32 color coding.
　 Please add "E" after liters per minute. Example: FM293-16LE-X-XX
　 For ISO 32 colors with 50 psi calibration please add "E" after the connector. Example: FM293-16L-X-00E

### Ordering Information

| Model Number | Specifications |
|---|---|
| FM293-200CC-X | Oxygen flowmeter, Back pressure compensated, 200 cc/min, Inlet connection: 1/8" NPT(F), Outlet connection: 9/16"-18UNF(M) |
| FM293-1L-X | Oxygen flowmeter, Back pressure compensated, 1 LPM, Inlet connection: 1/8" NPT(F), Outlet connection: 9/16"-18UNF(M) |
| FM293-3L-X | Oxygen flowmeter, Back pressure compensated, 3 LPM, Inlet connection: 1/8" NPT(F), Outlet connection: 9/16"-18UNF(M) |
| FM293-16L-X | Oxygen flowmeter, Back pressure compensated, 16 LPM, Inlet connection: 1/8" NPT(F), Outlet connection: 9/16"-18UNF(M) |
| FM293-75L-X | Oxygen flowmeter, Back pressure compensated, 75 LPM, Inlet connection: 1/8" NPT(F), Outlet connection: 9/16"-18UNF(M) |
| FM293-16L-Q* | Air flowmeter, Back pressure compensated, 16 LPM, Inlet connection: 1/8" NPT(F), Outlet connection: 9/16"-18UNF(M) |
| FM293-75L-Q* | Air flowmeter, Back pressure compensated, 75 LPM, Inlet connection: 1/8" NPT(F), Outlet connection: 9/16"-18UNF(M) |

## Carbon Dioxide Flowmeters

### Features

- Slim body flowmeter
- Available in anodized aluminum (FM177A) or chrome-plated brass body ( FM177B)
- Polycarbonate tubes for maximum durability
- Back-pressure compensated
- Flow range: 0~12 LPM
- Calibrated at 50 psi

FM197B-12L-00-CO2

### Ordering Information

| Model Number | Specifications |
|---|---|
| FM197A-12L-00-CO2 | Carbon dioxide flowmeter, Back pressure compensated, 12L, Inlet connection: 1/8" NPT(F) |
| FM197B-12L-00-CO2 | Carbon dioxide flowmeter, Back pressure compensated, 12L, Inlet connection: 1/8" NPT(F) |
| FM197A-12L-S-(Heliox) | Heliox flowmeter, Back pressure compensated, 12L, Inlet connection: 1/8" NPT(F) |

## Heliox Medical Flowmeters

### Features

- Slim body flowmeter
- Available in anodized aluminum
- Polycarbonate tubes for maximum durability
- Back-pressure compensated
- Flow range: 0~12 LPM
- Calibrated at 50 psi

FM197A-12L-S-(Heliox)

## Flowmeter Accessories

**Dual Flowmeter with Y Connector**
NFPA 99 Color coding, Inlet:1/8" NPT(F)

**Dual Flowmeter with T Connector**
ISO color coding, Inlet:1/8" NPT(F)

**Flowmeter with Power Take Off Connector**
NFPA 99 Color coding, Inlet: 1/8" NPT(F) , Outlet: DISS
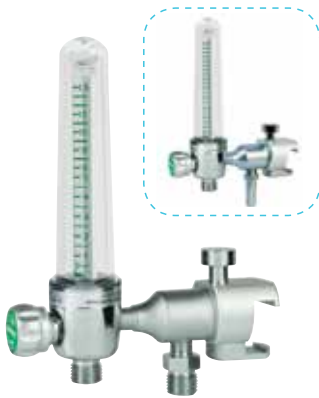
**Flowmeter with Rail Clamp (10*25mm)**
NFPA 99 Color, Inlet: DISS,1/4" & 5/16" Hose Barb

**Flowmeter with 360° Connector**
NFPA 99 Color, Inlet: 1/8" NPT(F), Outlet: DISS

**NEW**

**Flowmeter with Nebulator**
ISO color, Inlet: 1/8" NPT(F), Outlet: Hose Barb

Flowmeter Humidifier with FM-PTO Power Take Off, Ohmeda Adapter, and Retaining Wire.

# OXYGEN THERAPY

## Nebbulator

The Nebbulator is multifaceted and makes itself very convenient and time saving for hospital staff.



FMB197B-15-06L-DH
NFPA 99 Color , Inlet: 1/8" NPT(F), Outlet: Hose Barb

## Features

- 50 psi power take off, can be used for multiple products that need 50 psi to power their equipment
- Neb treatments
- Resuscitation bags
- Multiple preset flows
- The Nebbulator is available for use with adult and pediatric flow meters
- The Nebulator Block can be used as a standalone with multiple stand alone settings
- Available in Brass or Aluminum (flowmeter)

## Ordering Information

| Series | Model Number | Liter Flow |
|---|---|---|
| FMB197A-15 | FMB197A-15-06L | 6 ~ 7 LPM |
| | FMB197A-15-08L | 8 ~ 9 LPM |
| | FMB197A-15-10L | 10 ~ 11 LPM |
| | FMB197A-15-15L | 14 ~ 16 LPM |
| | FMB197A-15-25L | 24 ~ 26 LPM |
| FMB197B-15 | FMB197B-15-06L | 6 ~ 7 LPM |
| | FMB197B-15-08L | 8 ~ 9 LPM |
| | FMB197B-15-10L | 10 ~ 11 LPM |
| | FMB197B-15-15L | 14 ~ 16 LPM |
| | FMB197B-15-25L | 24 ~ 26 LPM |

## Nebulator without Flowmeter

| Model Number | Liter Flow |
|---|---|
| FB-06L-00 | 6 ~ 7 LPM |
| FB-08L-00 | 8 ~ 9 LPM |
| FB-10L-00 | 10 ~ 11 LPM |
| FB-15L-00 | 14 ~ 16 LPM |
| FB-25L-00 | 24 ~ 26 LPM |

Add OH (OHIO), DS (DISS), CH (Chemetron), DH (DISS Hand-Tight), DS (DISS Nut-Nipple) or PB (Puritan-Bennett) to the end of the model number - eg, FMB197B-15-06L-DH

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## Click Style Flowmeter

### Features

- Available in Oxygen
- Available in 4, 8, 15 and 25 LPM
- Smallest and lightest in the industry
- Smallest increment is 1/4 LPM
- Calibration for 50* psi
- Encased in an ABS housing
- Easy to read window

*\* Calibration for different pressures available upon request*

**CFM30-15L-OH**
Click Style Flowmeter with
Ohmeda inlet adapter

**CFM30-25LE-XX**
Click Style Flowmeter

### Ordering Information

| Model Number (USA) | Model Number (ISO) | Flow Rate  (LPM) |
|---|---|---|
| CFM30-4L-XX | CFM30-4LE-XX | 0, 0.25, 0.5, 0.75, 1, 1.25, 1.5, 2, 2.5, 3, 3.5, 4 |
| CFM30-8L-XX | CFM30-8LE-XX | 0, 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8 |
| CFM30-15L-XX | CFM30-15LE-XX | 0, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15 |
| CFM30-25L-XX | CFM30-25LE-XX | 0, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 15, 25 |

\*  XX: Inlet adapter (00, OH, DS, DH, CH, PB, FS, GS, BS, JIS, SIS)
   Example: CFM-15L-OH, CFM-8LE-BS

## Oxygen Supply Manifold

### Features

- Economical and practical
- For EMS and mass casualty situations where multiple patients require oxygen simultaneously
- Consistent pressure

## Humidifiers



**7100R**
(Volume 200 ml)

**7100R-L**
(Volume 300 ml)

**7200R**
(Volume 140 ml)

**7300R**
(Volume 350 ml)

CE
0123

### Features

- Reusable
- Polycarbonate bottles are impact resistant for maximum durability and service life.
- Pressure relief valve on cover to vent excess pressure
- Designed to be autoclavable up to 121°C during disinfecting procedures (Models 7200R and 7300R)
- DISS 1240 inlet connection
- CE listed



## Nebulizers

### Features

- Reusable
- Polycarbonate bottles are impact resistant for maximum durability and service life
- Relief valve with whistle alert
- DISS 1240 inlet connection



**7700R**
(Volume 300 ml)

## Flowmeters with Humidifiers / Nebulizers

| Humidifiers & Nebulizers | Flowmeters | | | | |
|---|---|---|---|---|---|
| | FM197A-XX-XX | FM197B-XX-XXE | FM197A-XX-XX-AIR | FM197B-XX-XXE-AIR | CFM |
| 7100R | FM897A-6L1-XX<br>FM897A-3L1-XX | FM897B-6L1-XX<br>FM897B-3L1-XX | FM887A-6L1-XX<br>FM887A-3L1-XX | FM887B-6L1-XX<br>FM887B-3L1-XX | FM877-8L1-XX<br>FM877-4L1-XX |
| 7100R-L | FM897A-15L1L-XX | FM897B-15L1L-XX | FM887A-15L1L-XX | FM887B-15L1L-XX | FM877-25L1L-XX<br>FM877-15L1L-XX |
| 7200R | FM897A-6L2-XX<br>FM897A-3L2-XX | FM897B-6L2-XX<br>FM897B-3L2-XX | FM887A-6L2-XX<br>FM887A-3L2-XX | FM887B-6L2-XX<br>FM887B-3L2-XX | FM877-8L2-XX<br>FM877-4L2-XX |
| 7300R | FM897A-15L3-XX | FM897B-15L3-XX | FM887A-15L3-XX | FM887B-15L3-XX | FM877-25L3-XX<br>FM877-15L3-XX |
| 7700R | FM897A-6L7-XX<br>FM897A-15L7-XX | FM897B-6L7-XX<br>FM897B-15L7-XX | - | - | FM877-15L7-XX<br>FM877-8L7-XX<br>FM877-4L7-XX |

\* XX: Inlet adapter (00, OH, DS, DH, CH, PB, FS, GS, BS, JIS, SIS). Example: FMD191-15L-OH
\*\* For 65 psi calibration pressure, see page 5 and page 6

## Ordering Information

| Ex: | FM897 | A | - 15L | 1 | - OH |
|---|---|---|---|---|---|
| | Series Number | Flowmeter Body Material | Flowmeter Rating | Humidifiers or Nebulizers | Inlet Connection |
| | **FM897**: Oxygen Flowmeters with Humidifiers or Nebulizers<br>**FM887**: Air Flowmeters with Humidifiers or Nebulizers | A: anodized aluminum<br>B: chrome-plated brass | 3L: 3L<br>6L: 6L<br>15L: 15L | 1: 7100R(200ml)<br>1L: 7100R-L(300ml)<br>2: 7200R(140ml)<br>3: 7300R(350ml)<br>7: 7700R(300ml) | OH: Ohmeda® adapter (male)<br>DS: DISS hex adapter (male)<br>DH: DISS Handwheel adapter (male)<br>NS: NIST adapter<br>CH: Chemetron® adapter (male)<br>PB: Puritan-Bennett® adapter (male)<br>FS: French (NF S 90-116) adapter (male)<br>GS: German (DIN 13260-2) adapter (male)<br>BS: British (BS5682-1998) adapter (male)<br>JIS: Japanese Style adapter (male)<br>SIS: Australian (AS2896) adapter (male) |
| | **FM877**: CFM Flowmeters with Humidifiers or Nebulizers | None | 4L: 3L<br>8L: 6L<br>15L: 15L<br>25L: 25L | | |

## Oxygen Flowmeter Regulators with Humidifiers

**Pressure Gauge**

- Endured 25,000 cycles of longevity test
- Complies with UL safety regulations

**Inlet Connection**

- CGA870 Yoke
- Connects directly to oxygen cylinder
- Other connections available upon request

**Oxygen Safe Complies with The Following Tests Oxygen for Safety Standards**

- AS 3840.1 Ignition Testing: Appendix E Ignition Testing with Section 15.2.1 Storage Temperatures.
- ISO 10524-1 Part 1: Pressure regulators and pressure regulators with flow-metering devices. Section 6.6 Resistance to ignition.
- ASTM G175 Phase 1 Oxygen Pressure Shock Test
- CGA E-7 Section 6.8.3

**Regulator**

- Matte Chrome Finish
- Brass body regulator and flow meter
- Diaphragm-sensed pressure regulator
- Endured 25,000 cycles of longevity test
- Complies with UL safety regulations and ISO 10524-1 Standard

**Safety Valve**

**Flowmeter with Humidifier**

## Oxygen Flowmeter Regulators with Humidifiers



**891M**

- Chrome-plated brass body regulator
- Piston-type regulator design
- Back-pressure compensated flowmeter
- For use with oxygen cylinder
- NFPA 99 Color
- Different style gauges available

**895M**

- Chrome-plated brass body regulator
- Diaphragm-type design
- Back-pressure compensated flowmeter
- For use with oxygen cylinder
- NFPA 99 Color
- Different style gauges available

**897M**

- Matte-chrome brass body regulator
- Diaphragm-type design
- Back-pressure compensated flowmeter
- For use with oxygen cylinder
- ISO 32 color
- Different style gauges available

$C\epsilon$ 0123

### Ordering Information

| Model Number | Delivery Flow | Inlet Connection | Working Pressure | Pressure Gauge | Inlet Pressure |
|---|---|---|---|---|---|
| 891M-15L | 0-15L | CGA 540 Nut | 50 psi | 1.5" | 3000 psi |
| 895M-15L | 0-15L | CGA 540 Nut | 50 psi | 2" | 3000 psi |
| 897M-15L | 0-15L | CGA 540 Nut | 50 psi | 2" | 3000 psi |
| 891M-15LH | 0-15L | CGA 540 Handwheel | 50 psi | 1.5" | 3000 psi |
| 895M-15LH | 0-15L | CGA 540 Handwheel | 50 psi | 2" | 3000 psi |
| 897M-15LH | 0-15L | CGA 540 Handwheel | 50 psi | 2" | 3000 psi |
| 891M-15LY | 0-15L | CGA 870 Yoke | 50 psi | 1.5" | 3000 psi |
| 895M-15LY | 0-15L | CGA 870 Yoke | 50 psi | 2" | 3000 psi |
| 897M-15LY | 0-15L | CGA 870 Yoke | 50 psi | 2" | 3000 psi |
| 891M-15L-BS | 0-15L | BS 341 NO.3 | 50 psi | 1.5" | 3000 psi |
| 895M-15L-BS | 0-15L | BS 341 NO.3 | 50 psi | 2" | 3000 psi |
| 897M-15L-BS | 0-15L | BS 341 NO.3 | 50 psi | 2" | 3000 psi |
| 891M-15L-BSH | 0-15L | BS 341 NO.3 Handwheel | 50 psi | 1.5" | 3000 psi |
| 895M-15L-BSH | 0-15L | BS 341 NO.3 Handwheel | 50 psi | 2" | 3000 psi |
| 897M-15L-BSH | 0-15L | BS 341 NO.3 Handwheel | 50 psi | 2" | 3000 psi |
| 891M-15L-DIN | 0-15L | DIN 477 NO.9 | 50 psi | 1.5" | 3000 psi |
| 895M-15L-DIN | 0-15L | DIN 477 NO.9 | 50 psi | 2" | 3000 psi |
| 897M-15L-DIN | 0-15L | DIN 477 NO.9 | 50 psi | 2" | 3000 psi |

*\* For 65 psi calibration pressure, see page 5 and page 6*

## Oxygen Flowmeter Regulators with Flowmeter



**191M-15L**
Piston-type Regulator with Flowmeter and
CGA540 Nut and Nipple Inlet, NFPA 99 Color



**195M-15L**
Diaphragm-type Regulator with Flowmeter
and CGA540 Nut and Nipple Inlet, NFPA 99 Color



**197M-15L-BS**
Diaphragm-type Regulator with Flowmeter
and BS 341 no.3 Nut and Nipple Inlet, ISO 32 Color

### Features

- Back-pressure compensated flowmeters
- 3000 psi maximum inlet pressure
- Flow range: 0~15 LPM, 0~70 LPM
- For use with oxygen cylinders
- Meets ignition testing for oxygen service
- CE listed

*\* For 65 psi calibration pressure, see page 5 and page 6*

### Ordering Information

| Model Number | Delivery Flow | Inlet Connection | Working Pressure | Body Material |
|---|---|---|---|---|
| 191M-15L | 0-15 LPM | CGA 540 | 50 psi | Chrome-plated Brass |
| 191M-15LY | 0-15 LPM | CGA 870 Yoke | 50 psi | |
| 195M-15L | 0-15 LPM | CGA 540 | 50 psi | Chrome-plated Brass |
| 195M-15LY | 0-15 LPM | CGA 870 Yoke | 50 psi | |
| 195M-70L | 0-70 LPM | CGA 540 | 50 psi | |
| 197M-15L | 0-15 LPM | CGA 540 | 50 psi | Matte Chrome-plated Brass |
| 197M-15LY | 0-15 LPM | CGA 870 Yoke | 50 psi | |

\* International connections optional: BS 341 no.3 add "-BS", DIN 477 no.9 add "-GS", JIS 22-R add "-JS"
  Example: 191M-15L-DIN for DIN 477 no.9 inlet connection

## Heliox Flowmeter Regulators with Flowmeter

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.



**197HX-12L**
Heliox Flowmeter Regulator with CGA280 Inlet

### Features

- 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

### Ordering Information

| Model Number | Delivery Flow | Inlet Connection | Working Pressure | Body Material |
|---|---|---|---|---|
| 197HX-12L | 0-12 LPM | CGA 280 | 50 psi | Matte Chrome-plated Brass |

\* International connections optional: BS 341 no.3 add "-BS", DIN 477 no.9 add "-GS", JIS 22-R add "-JS"
  Example: 197M-12L-DIN for DIN 477 no.9 inlet connection

## 195M Series Medical Gas Regulators

### Features

- Regulator for medical gas supply from cylinder
- Chrome-plated brass body
- 3000 psi maximum inlet pressure
- Oulet pressure: 30 ~ 90 psi
- 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
- CE listed

**195M -540D**
Diaphragm-type Regulator without Flowmeter, with CGA540 Nut and Nipple Inlet

**195M -540D-FOH**
Diaphragm-type Regulator without Flowmeter, with CGA540 Nut and Nipple Inlet

CE 0123

**195MG-8-870**
Flow gauge regulator with CGA870 yoke inlet

**195MA-15-870**
Flow gauge regulator with CGA870 yoke inlet

### Ordering Information

| Ex: | 195M | G | | - | 15 | | - | CGA540 |
|-----|------|---|---|---|----|--|---|--------|
| | **Series** | **Inlet Type** | | | **Flow Gauge** | | | **CGA Connector** |
| | 195M | None: Standard | | | None: Without flow gauge | | | CGA540 |
| | | G: With outlet connector and pressure gauge | | | 5: 5L | | | CGA580 |
| | | A: Axial inlet | | | 8: 8L | | | ...... |
| | | | | | 15: 15L | | | |

# OXYGEN THERAPY

Medical Gas Regulators

## 195MG-100P-540 Series Medical Gas Regulator



**195MG -100P-540**
Diaphragm-type Regulator without Flowmeter,
with CGA540 Nut and Nipple Inlet

CE
0123

### Features

- 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: 0 ~ 100 psi

## 195MZ Series Medical Gas Regulator

### Features

- Regulator for medical gas supply from terminal
- Chrome-plated brass body
- 200 psi maximum inlet pressure
- Oulet pressure: 0 ~ 40 psi
- 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



**195MZ-O2-GS-HB4**
Diaphragm-type regulator without flowmeter,
with hose barb and GS inlet

### Ordering Information

| Ex: 195MZ | - O2 | - GS | | - HB4 |
|---|---|---|---|---|
| **Series** | **Gases** | **Inlet Connection** | | **Outlet Connection** |
| 195MZ | O2: Oxygen<br>AIR: Medical Air<br>N2O: Nitrous Oxide<br>CO2: Carbon Dioxide<br>N2: Nitrogen | OH: Ohmeda® adapter (male)<br>DH: DISS Handwheel adapter (male)<br>CH: Chemetron® adapter (male)<br>FS: French (NF S 90-116) adapter (male)<br>DIN: German (DIN 13260-2) adapter (male)<br>BS: British (BS5682-1998) adapter (male)<br>JIS: Japanese Style adapter (male)<br>SIS: Australian (AS2896) adapter (male) | DS: DISS hex adapter (male)<br>NS: NIST adapter<br>PB: Puritan-Bennett® adapter (male) | HB4: 1/4" hose bar<br>HB5: 5/16" hose bar<br>FDS: DISS outlet |

## 230 Series  Flow Gauge Regulator

### Features

- 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-15-CGA540-M

230M-15-CGA870

230M-15-CGA540-L

230M-15-CGA870

CE 0123

### Ordering Information

| Ex: | 230M | - 15 | - 540 | - M |
|---|---|---|---|---|
| | Series | Flow Settings | CGA Connector | Inlet Connector Length |
| | 230M | 5: 5 L<br>8: 8 L<br>15: 15 L<br>45: 45 L<br>50 P: 50 psi | 540：CGA540<br>870：CGA870<br>......<br>See below table | None: Standard<br>M: 2" Length<br>L: 6" Length |

### Gas Connection Table

| Gas | CGA (Screw Thread) | CGA (Handwheel) | CGA (Yoke) | DIN (477) | BS (Screw Thread)(341) | BS (Handwheel)(341) |
|---|---|---|---|---|---|---|
| $O_2$ | BP-CGA540 | BP-CGA540H | CGA870-2 | BP-DIN477-9 | BP-BS341-3 | BP-BS341-3H |
| AIR | BP-CGA346 | BP-CGA346H | CGA950-2 | BP-DIN477-13 | BP-BS341-3 | BP-BS341-3H |
| He | BP-CGA580 | - | CGA930-2 | - | - | - |
| NE | BP-CGA580 | - | - | - | - | - |
| $N_2$ | BP-CGA580 | - | CGA960-2 | - | - | - |
| $N_2O$ | BP-CGA326 | BP-CGA326H | CGA910-2 | - | - | - |
| $CO_2$ | BP-CGA320 | - | CGA940-2 | BP-DIN477-6 | BP-BS341-8 | - |
| $O_2+N_2O$ | BP-CGA280 | - | CGA965-2 | - | - | - |
| $He_2+O_2$ | BP-CGA280 | - | CGA890-2<br>CGA930-2 | - | - | - |

\* We offer various international connections, please inform us of your connection requirement if it is not listed above.

## 130M Series Medical Gas Regulators
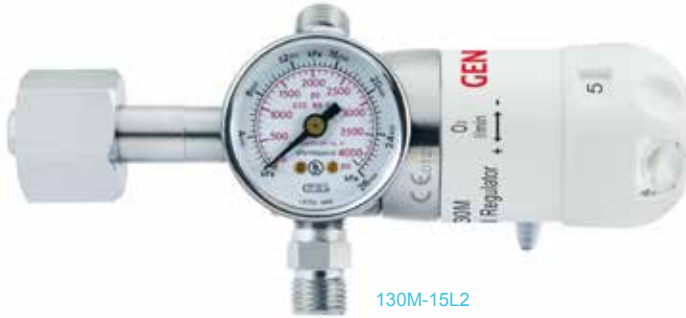


**130M-15L2**
Click-Style Regulator with Hose Barb Outlet, two DISS Outlets and CGA 540 Inlet



**130M-15LY2**
Click-Style Regulator with Hose Barb Outlet, two DISS Outlets and CGA 870 Yoke Inlet

### Features



- Performance driven design for powering ventilators and devices at 120 LPM
- Cleaned for oxygen service per CGA 4.1
- Durable chrome-plated brass body
- 3000 psi maximum inlet pressure
- 1/2" diameter UL-listed gauge
- Complies to CGA standards
- Internal relief valve
- Hose barb outlet with optional DISS, SIS, DIN or BS
- Powertake off connections
- Sintered bronze inlet filter
- Top view easy to read flow rate window
- Additional Knob view flow rate window
- Meets ignition testing for oxygen service

**130M-15LBS2**
Click-Style Regulator with Hose Barb Outlet, two DISS Outlets and BS Inlet

## 284MA, 285MA / 287MA, 288MA Series Aluminum Medical Gas Regulators

**285MA-15L1**
Click-Style Regulator with Hose Barb, one DISS Power
Take Off Outlet and CGA 540 Nut and Nipple Inlet

**285MA-15LBSH1-FOH**
Click-Style Regulator with Hose Barb, one Ohmeda Coupler
and BS 3 Cylinder Connection

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

**287MA-15LY**
Click-Style Regulator with Hose Barb Outlet
and CGA 950 Yoke Inlet

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

**284MA-15LY**
Click-Style Regulator with Hose Barb Outlet
and CGA 870 Yoke Inlet

### Features

- Available in Oxygen (284MA, 285MA Series) or
  Medical Air (287MA, 288MA Series)
- 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-type design regulator
- Sintered bronze inlet filter for longer service life
- Easy to read flow rate window

**287MA-15L-BS**
Click-Style Regulator with Hose Barb, BS Cylinder Connection

## 286MB Series Brass Medical Gas Regulators

**286MB-15LY2**
Click-Style Regulator with Hose Barb Outlet,
two DISS Outlets and CGA 870 Yoke Inlet

**286MB-15LBS1-FBS**
Click-Style Regulator with hose barb outlet,
BS 5682 coupler outlet and BS 3 inlet

### Features

- Available in Oxygen
- Chrome-plated brass body
- 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
- Meets ignition testing for oxygen service
- Pre-set: 50 psi, options: 58 or 65 psi

### Flow Rate

| Flow Settings | Flow Rate (LPM) |
| --- | --- |
| 4L | 0, 0.25, 0.5, 0.75, 1, 1.25, 1.5, 2, 2.5, 3, 3.5, 4 |
| 8L | 0, 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8 |
| 15L | 0, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 12, 15 |
| 25L | 0, 0.5, 1, 2, 3, 4, 5, 6, 8, 10, 15, 25 |

### Ordering Information

| Ex: | 130M | - | 4L | Y | 2 | - | FBS |
| --- | --- | --- | --- | --- | --- | --- | --- |
| | **Series** | | **Flow Settings (LPM)** | **Inlet Connector** | **DISS Outlet (s)** | | **Coupler Outlet (s)** |
| | 130M | | 4L | None: CGA540 | None: without DISS Outlet | | None: without coupler |
| | 284MA | | 8L | Y: CGA870 | 1: with one DISS outlet | | FOH: Ohmeda® coupler |
| | 285MA | | 15L | BS: BP-BS341-3 | 2: with two DISS outlets | | FDS: DISS hex coupler |
| | 286MB | | 25L | BSH: BP-BS341-3H | D: DISS outlet replacing hose barb | | FDH: DISS handwheel coupler |
| | 287MA | | 2CK: None, Pre-set: 50 psi | ...... | | | FFS: French (NF S 90-116) coupler |
| | 288MA | | | | | | FGS: German (DIN 13260-2) coupler |
| | | | | | | | FBS: British (BS5682-1998) coupler |
| | | | | | | | FJIS: Japanese style coupler |
| | | | | | | | FSIS: Australian (AS2896) coupler |

*Solutions for Life*

## 193M Series Regulators



193M-870



193M

### Features

- Available in $O_2$, AIR, $N_2O$ and $CO_2$
- Chrome-plated brass body, 2" diameter gauges
- 3000 psi maximum inlet pressure
- External relief valve
- Meets ignition testing for oxygen service
- Diaphragm-sensed pressure regulator
- Sintered inlet filter for longer service life
- Dual scale pressure gauge: psi and kPa
- Endured over 25,000 cycles of longevity testing
- RoHS compliant, CE listed
- Suitable for ventilators, anesthesia machines, etc

## 197M Series Regulators



197M -870-YSC

### Features

- Oxygen SIS outlet connection
- Color coded pressure gauge
- Regulator Inlet Connection: Pin-indexed CGA870 Yoke
- Maximum Inlet Pressure: 20,000 kPa
- Delivery Pressure: 400 kPa (Fixed)
- With safety relief valve
- For use with oxygen cylinders
- 4 bar pre-set pressure

## 152M Series Medium Duty Regulators



152MX-80
Medium Duty Single-stage Regulator

### Features

- Chrome-plated brass body and housing cap
- Delrin cap bushing for smooth adjustments
- Self re-seating external pressure relief valve
- Sintered bronze inlet filter
- Stem-type seat assembly for more reliable performance
- Max. Inlet Pressure: 3000 psi
- Max. Delivery Pressure: 80, 125 psi
- 2" gauges for easy reading
- 2" diaphragm
- Suitable for ventilators, anesthesia machines, etc

## 155M Heavy Duty Manifold Regulator



### Features

- Single-stage construction
- Forged brass body and housing cap
- Delrin cap bushing for smooth adjustments
- Self re-seating external pressure relief valve
- Sintered bronze inlet filter
- 2-1/2" gauges for easy reading
- 3-1/4" diaphragm
- Conforms to CGA E-4 standard for gas pressure regulators

155MX-200
Heavy Duty Single-stage Regulator

## 255L Heavy Duty Oxygen Line Regulator



### Features

- Forged brass body
- Cleaned for oxygen service per CGA 4.1
- EPDM Seats and Diaphragm
- Up to 120 $m^3$/hr flow
- Medical pipeline regulator

255L
Diaphragm-type Regulator without Flowmeter,
with Hose Barb and GS Inlet

## Air / Oxygen Blenders, Heliox Blenders

### Durable Housing
- The curved surface is smooth and easy to clean

### Control Knob
- Ergonomic design provides smooth and easy control
- Easy adjustment of oxygen concentration from 21% to 100%

### Primary Outlet
- CGA V-5 1240 (DISS) connector
- With check valve
- Compatible with GENTEC® flowmeter

### Color Coding
- Available in both NFPA 99 and ISO 32 Color Code

Air/Oxygen

NFPA          ISO32

### Oxygen Inlet
- USA standard: CGA V-5 1240 (DISS) oxygen connector
- ISO standard: ISO 5359 A8 (NIST) oxygen connector
- Compatible with GENTEC® medical hose

### Slide Mount
- Easily mounted with the mounting bracket

Back

### Auxiliary Outlet
- CGA V-5 1240 (DISS) connector
- With check valve
- Compatible with GENTEC® flowmeter

### Air Inlet (Air / Oxygen Blenders)
- USA standard: CGA V-5 1160 (DISS) air connector
- ISO standard: ISO 5359 A3 (NIST) air connector
- Compatible with GENTEC® medical hose
- Inlet Pressure: 40.6 ~ 87 psi
- Differential Pressure: ≤ 17.4 psi

### He/O2 Inlet (Heliox Blender)
- USA standard: CGA V-5 1180 (DISS) He/O2 connector
- ISO standard: ISO 18082 B14 (NIST) He/O2 connector
- Compatible with GENTEC® medical hose
- Inlet Pressure: 40.6 ~ 87 psi
- Differential Pressure: ≤ 17.4 psi

Heliox/Oxygen

NFPA          ISO32

## Features

- Suitable for use in Emergency Room and ICU where accurate oxygen concentration is required
- Double-ended proportioning valve enables easy adjustment of oxygen concentration from 21% to 100%.
- Two-stage pressure-balancing mechanism is adopted to deliver steady oxygen concentration.
- Two outlet ports and bleed valve allow a wide range of applications
- Internal bypass and alarm mechanism ensure safe use.
- Accuracy: ± 3% FS

**Air/Oxygen Blender without Flowmeter**

**Air/Oxygen Blender with Primary Flowmeter**

**Air/Oxygen Blender with Auxiliary Flowmeter**

**Air/Oxygen Blender with Primary and Auxiliary Flowmeter**

**Air/Oxygen Blender with Dual Primary and Single Auxiliary Flowmeter**

## Ordering Information

| GMX30 | U | - | Air/O2- | NS - | P15 | A6 - | OH | 3 | C - | D20 |
|---|---|---|---|---|---|---|---|---|---|---|
| Model Number | Color Code | Gas Code | | Default Connections | Primary Flowmeter | Auxiliary Flowmeter | Hose Assemblies | Hose Length | Condensation Trap | Clip |
| GMX30 (0~30 LPM) GMX120 (0~120 LPM) | U: NFPA 99 (USA) E: ISO 32 | Air/O2 He80: 70%He+30%O2 He70: 80%He+20%O2 | | Null: Default Connections * DS: ISO Color Code with DISS Inlet Connector NS: NFPA 99 Color Code with NIST Inlet Connector  * Default connections for "E" ISO 32 color code uses NIST inlet connection and default connections for "U" NFPA 99 color code uses DISS inlet connection | Null: No Flowmeter P0: Plugged Port P1: 0~1 LPM P3: 0~3 LPM P6: 0~6 LPM P15: 0~15 LPM P25: 0~25 LPM P50: 0~50 LPM P70: 0~70 LPM | Null: No Flowmeter A0: Plugged Port A1: 0~1 LPM A3: 0~3 LPM A6: 0~6 LPM A15: 0~15 LPM A25: 0~25 LPM A50: 0~50 LPM | Null: None OH: Ohmeda® Adapter FS: 3105 (FS) Series Adapter GS: 3106 (GS) Series Adapter BS: 3107 (BS) Series Adapter JIS: 3108 (JIS) Series Adapter SIS: 3109 (SIS) Series Adapter | 3: 3 M | Null: None C: **With Condensation Trap** | Null: None D20: Φ8~20 Rod D30: Φ10~30 Rod D40: Φ12~40 Rod S25: 25X10 Rail |

## Use Case Diagram

**Blender Application with oxygen and air cylinders as gas source.**

Air Regulator
Air Cylinder
Air/Oxygen Blender
Air Hose
Oxygen Hose
Oxygen Regulator
Oxygen Cylinder
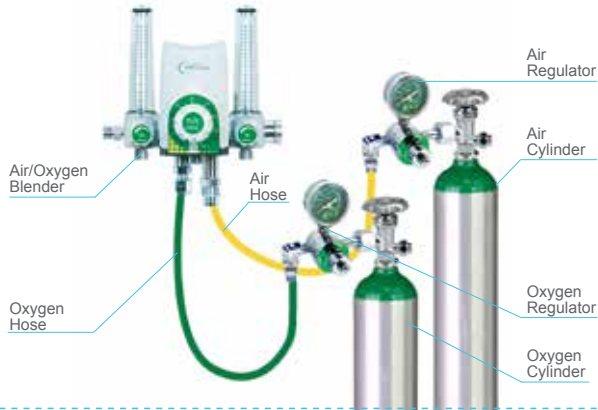
**Blender Application with central oxygen and air as gas source and optional condensation trap.**

GENTEC
Condensation Trap with DISS Fitting
Air/Oxygen Blender
Oxygen Hose
Air Hose

## Accessories

### Flowmeter

**FM897-15L**
Flowmeter

**FM897-15L(ASD-L)**
Left Flowmeter,
DISS Handwheel adapter

**FM897-15L(ASD-R)**
Right Flowmeter,
DISS Handwheel adapter

### Hose Assemblies (USA)

34U-OXY-FDS/XX-L

34U-AIR-DS/XX-L

### Hose Assemblies (ISO)

34I-OXY-NS/XX-L

34I-AIR-NS/XX-L

### Wall Slide

**SJ-CLP**
Rail Clamp, Φ8~20 Rod

**CLP-D40-45**
Rail Mount, Φ12~40 Rod

**CLP-D30**
Rail Mount, Φ10~30 Rod

**3910-Sld**
Console Slide

**3820-Sld**
Wall Slide

### Condensation Trap

**BLD-AIR-NS**
Condensation Trap with NIST adapter

**Adapter**
(Electroplate)

**USA Hose Barb**
(Plastic)

**ISO Hose Barb**
(Plastic)

**Hose Barb**
(Electroplate)

F-DISS-Φ22

3100E-HB-01(Green)

3100E-HB-01(White)

3102A-OXY-HB4
3102P-OXY-HB4

**BLD-AIR-DS**
Condensation Trap with DISS adapter

## Air / Oxygen Mixer

The FM20 Series Air/Oxygen Mixer is an affordable method to mix air and oxygen for flow and FIO2 control.

### Features

- Includes pole mount for easy mounting and transport
- Quiet Operation
- Lower Cost of ownership and maintenance compared to blenders
- Durable and reliable technology

### Parameters

| | |
|---|---|
| Flowmeter Accuracy | 4.0 |
| Filtration Accuracy | 100 μm |
| Gas Service | Oxygen, Air |
| Oxygen Concentration Adjustment Range | 21% ~ 100% |
| Working Pressure | 58 ~ 72.5 psi (4.5 ± 0.5 bar) |
| Working temperature | 59 ~ 77°F (20 ± 5°C) |
| Relative Humidity | 10% ~ 95% |
| Maxmum Flow | 140 LPM (Oxygen Concentration: 60%) |

**Clip Mount**
- Easily mounted with the mounting bracket

**Oxygen Inlet**
- USA standard: CGA V-5 1240 (DISS) oxygen connector
- ISO standard: ISO 5359 A8 (NIST) oxygen connector
- Compatible with GENTEC® medical hose assemblies

**Air Inlet**
- USA standard: CGA V-5 1160 (DISS) air connector
- ISO standard: ISO 5359 A3 (NIST) air connector
- Compatible with GENTEC® medical hose assemblies

**Outlet**
- CGA V-5 1240 (DISS) connector
- With check valve
- Compatible with GENTEC® flowmeter

### Ordering Information

| FMX20 | E - | O - | 70 | A - | 50 | NS - | DS | 3 | D20 |
|---|---|---|---|---|---|---|---|---|---|
| Model Number | Color Code | Gas Code | Flow Rate | Gas Code | Flow Rate | Default Connections | Inlet Connection | Hose Length | Clip |
| FMX20 | U: NFPA 99 (USA) E: ISO 32 | O: Oxygen | 70: 70 LPM 50: 50 LPM 30: 30 LPM 15: 15 LPM | A: Air | 70: 70 LPM 50: 50 LPM 30: 30 LPM 15: 15 LPM | Null: Default Connections * DS: ISO Color Code with DISS Inlet Connector NS: NFPA 99 Color Code with NIST Inlet Connector  * Default connections for "E" ISO 32 color code uses NIST inlet connection and default connections for "U" NFPA 99 color code uses DISS inlet connection | DS: DISS Connector NS: NIST Connector | 3: 3 M 3: 5 M | Null: None D20: Φ8~20 Rod D30: Φ10~30 Rod S25: 25X10 Rail |

## Portable Oxygen Kit

- Portable oxygen kit is the perfect solution for outdoor activities
- Includes a mall aluminum oxygen cylinder with a 284M oxygen regulator, nasal oxygen tube, and carrying bag

| Model Number | Delivery Pressure | Liters | Weight | Working Hours |
|---|---|---|---|---|
| GMK-2.5 | 50 psi | 2.5L | 11 lbs | 2 h |

## Cylinder Valves

GMV-870T    GMV-870W    GMV-965W    GMV-CGA540

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

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

## Refilling Bridge

- Fill gas to small cylinders

CRB-CGA540-CGA870
Refilling Bridge with CGA540 Inlet
Connection, CGA870 Outlet Connection

## Cylinder Wrench CGA 870

27-MCW870

*Solutions for Life*

## Aluminum Cylinders



| Model Number | Mfg No. | Oxygen Cubic ft. | Capacity Liters* | Outer Diameter | | Height | | Empty Weight | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | 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 |
| CYLMD-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 |
| CYLME-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 | 7.5 | 184.15 | 23.5 | 569.9 | 22.5 | 10.2 |
| CYLMM-8T | MM | 121.9 | 3452.5 | 8 | 203.2 | 36.3 | 922.3 | 40 | 18.1 |

## Carbon Composite Cylinders
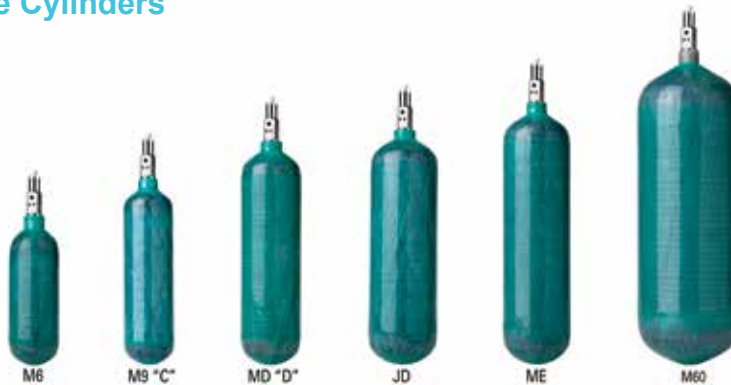


| Model Number | Mfg No. | Oxygen Cubic ft. | Capacity Liters* | Outer Diameter | | Height | | Empty Weight | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | in | mm | in | mm | lb | kg |
| CMCM6-8T | M6 | 6.4 | 183 | 3.3 | 85 | 9.9 | 251 | 1.5 | 0.7 |
| CMCM9-8T | M9 "C" | 8.6 | 244 | 3.3 | 84 | 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 2000 psi pressure in cylinder for oxygen

## Medical Hoses

### Features



- Available in a variety of gases
- Available in USA and ISO colors
- Complies to ISO 5359 Standard
- Maximum working pressure: 200 psi
- Length: 100 m

| 34GR | 34WH | 34YE | 34BL |
|------|------|------|------|

| 35GY | 35PU | 34BW | 35RO |
|------|------|------|------|

### Ordering Information

| Model | Standard | Color | NFPA 99 Color Service | ISO Color Service |
|-------|----------|-------|-----------------------|-------------------|
| 34E-Green | 1/4" | Green | Oxygen | / |
| 34E-White | 1/4" | White | / | Oxygen |
| 34E-Yellow | 1/4" | Yellow | Medical Air | / |
| 34E-Blue | 1/4" | Blue | Nitrous Oxide | Nitrous Oxide |
| 34E-Grey | 1/4" | Grey | Carbon Dioxide | Carbon Dioxide |
| 34E-Black | 1/4" | Black | Nitrogen | Nitrogen |
| 34E-Black+White | 1/4" | White+Black | / | Medical Air |
| 35E-White | 5/16" | White | Vacuum | / |
| 35E-Yellow | 5/16" | Yellow | / | Vacuum |
| 35E-Rose | 5/16" | Magenta Rose | / | AGSS |
| 35E-Purple | 5/16" | Purple | WAGD | / |

## Medical Hoses with Adapters

### Features

- Designed for centralized medical gas distribution in hospitals, operating rooms, dental offices and clinics
- Connector: Ohmeda, DISS, Chemetron, Puritan-Bennett, FS, GS, BS
- Maximum working pressure: 200 psi
- Connector is made by brass or stainless steel
- Available in custom lengths and configurations add the length required with "-xx"

example: For a 1/4" green medical hose with ohmeda adapter (male) and DISS Handwheel adapter (male), Oxygen with a 10 Meter hose
Mode number: 34U-OXY-OH-DH-10

CE
0123

34U-OXY-BS-DS-3          34U-AIR-BS-DS-3          34I-OXY-GSH-NS-3          34I-AIR-GSH-NS-3

Hose Barb
HB4-NT2
HB5-NT2
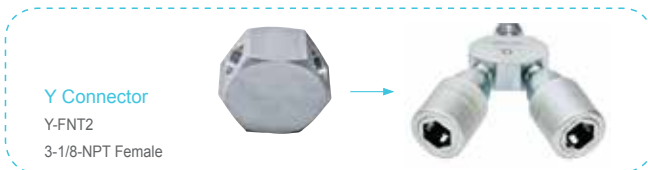
Y Connector
Y-FNT2
3-1/8-NPT Female

### Ordering Information

| Ex: 34 | U | - OXY | - OH - DS | - 3 |
|---|---|---|---|---|
| **Hose** | **Color Code** | **Gas Code** | **Inlet / Outlet Connection** | **Hose Length** |
| 34: 1/4"<br>35: 5/16" | U: USA standard<br>I: ISO standard | OXY: Oxygen<br>VAC: Vacuum<br>AIR: Medical Air<br>N2O: Nitrous Oxide<br>WAGD: WAGD<br>CO2: Carbon Dioxide<br>N2: Nitrogen<br>A8: Instrument Air | OH: Ohmeda® adapter (male)<br>DS: DISS hex adapter (male)<br>DH: DISS Handwheel adapter (male)<br>NS: NIST adapter<br>CH: Chemetron® adapter (male)<br>PB: Puritan-Bennett® adapter (male)<br>FS: French (NF S 90-116) adapter (male)<br>GS: German (DIN 13260-2) adapter (male), chrome-plated brass, 180°<br>GSH: German (DIN 13260-2) adapter (male), stainless steel, 90°<br>GSS: German (DIN 13260-2) adapter (male), stainless steel, 135°<br>BS: British (BS5682-1998) adapter (male)<br>JIS: Japanese Style adapter (male)<br>SIS: Australian (AS2896) adapter (male)<br>FNS: NIST adapter (female)<br>FOH: Ohmeda® coupler (female)<br>FDS: DISS Hex coupler (female)<br>FDH: DISS Handwheel coupler (female)<br>FGS: German (DIN 13260-2) coupler (female)<br>FBS: British (BS5682-1998) coupler (female)<br>FJIS: Japanese Style coupler (female)<br>FSIS: Australian (AS2896) coupler (female)<br>Leave blank for no adapters | 0.5: 0.5 m<br>1: 1 m<br>1.5: 1.5 m<br>2: 2 m<br>2.5: 2.5 m<br>3: 3 m<br>3.5: 3.5 m<br>4: 4 m<br>4.5: 4.5 m<br>5: 5 m<br>5.5: 5.5 m<br>6: 6 m |

Special lengths can be ordered.

## Medical Gas Adapters

### Features

- Medical gas adapters are for use to connect medical gas devices to medical gas terminals.
- Suitable for medical gas and vacuum (negative pressure)
- Adapter material is chrome-plated brass or stainless steel
- Gas specific adapters

### Ohmeda® Adapters

| Ohmeda® | Oxygen | Vacuum | Medical Air | Nitrous Oxide | WAGD |
|---|---|---|---|---|---|
| **USA Standard** | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** | **WAGD** |
| 1/8" NPT | 3111U-OXY-NT2 | 3111U-VAC-NT2 | 3111U-AIR-NT2 | 3111E-N2O-NT2 | 3111U-WAG-NT2 |
| 1/4" or 5/16" Hose Barb | 3111U-OXY-HB4 | 3111U-VAC-HB5 | 3111U-AIR-HB4 | 3111E-N2O-HB4 | 3111U-WAG-HB4 |
| **ISO Standard** | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** | **WAGD** |
| 1/8" NPT | 3111E-OXY-NT2 | 3111E-VAC-NT2 | 3111E-AIR-NT2 | 3111E-N2O-NT2 | |
| 1/4" or 5/16" Hose Barb | 3111E-OXY-HB4 | 3111E-VAC-HB5 | 3111E-AIR-HB4 | 3111E-N2O-HB4 | 3111E-WAGD-HB5 |

### Chemetron® Adapters

| Chemetron® | Oxygen | Vacuum | Medical Air | Nitrous Oxide | WAGD |
|---|---|---|---|---|---|
| **USA Standard** | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** | **WAGD** |
| 1/8" NPT | 3103-OXY-NT2 | 3103-VAC-NT2 | 3103-AIR-NT2 | 3103-N2O-NT2 | 3103-WAG-NT2 |
| **ISO Standard** | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** | |
| | 3103E-OXY-NT2 | 3103E-VAC-NT2 | 3103E-AIR-NT2 | 3103-N2O-NT2 | |

Note: If the panel is too large, you cannot directly use the machine lock. The HB need use NT2 + FNT2-HB.

*Solutions for Life*

## Medical Gas Adapters

### Puritan-Bennett ® Adapters

| Puritan Bennett® | Oxygen | Vacuum | Medical Air | Nitrous Oxide | WAGD |
|---|---|---|---|---|---|
| 1/8" NPT | | | | | |
| Chrome-plated Brass | 3104-OXY-NT2 | 3104-VAC-NT2 | 3104-AIR-NT2 | 3104-N2O-NT2 | 3104-WAG-NT2 |
| Stainless Steel | 3114-OXY-NT2 | 3114-VAC-NT2 | 3114-AIR-NT2 | 3114-N2O-NT2 | 3114-WAG-NT2 |
| 1/4" or 5/16" Hose Barb | | | | | |
| Chrome-plated Brass | 3104-OXY-HB4 | 3104-VAC-HB5 | 3104-AIR-HB4 | 3104-N2O-HB4 | 3104-WAG-HB5 |
| Stainless Steel | 3114-OXY-HB4 | 3114-VAC-HB5 | 3114-AIR-HB4 | 3114-N2O-HB4 | 3114-WAGD-HB5 |

### DISS Hex Adapters

| DISS Hex | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
|---|---|---|---|---|
| 1/8" NPT | | | | |
| | 3102-OXY-NT2 | 3102-VAC-NT2 | 3102-AIR-NT2 | 3102-N2O-NT2 |
| 1/4" or 5/16" Hose Barb | | | | |
| | 3102L-OXY-HB4 | 3102L-VAC-HB5 | 3102L-AIR-HB4 | 3102L-N2O-HB4 |
| DISS Hex | WAGD | Carbon Dioxide | Nitrogen | Instrument Air |
| 1/8" NPT | | | | |
| | 3102-WAG-NT2 | 3102-CO2-NT2 | 3102-NIT-NT2 | 3102-IA-NT2 |
| 1/4" or 5/16" Hose Barb | | | | |
| | 3102L-WAGD-HB5 | 3102L-CO2-HB4 | 3102L-NIT-HB4 | 3102L-IA-HB4 |

## Medical Gas Adapters

### DISS  Hand Tight Adapters (USA Standard)
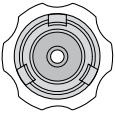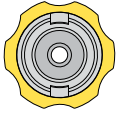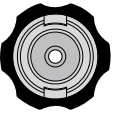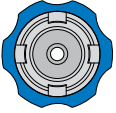
| DISS Hand Tight | | | | |
|---|---|---|---|---|
| **USA Standard** | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
| 1/8" NPT | 3222-OXY-NT2 | 3222U-VAC-NT2 | 3222U-AIR-NT2 | 3222E-N2O-NT2 |
| 1/4" or 5/16" Hose Barb | 3222-OXY-HB4 | 3222U-VAC-HB5(wh) | 3222U-AIR-HB4 | 3222E-N2O-HB4 |
| DISS Hand Tight | | | | |
| **USA Standard** | WAGD | Carbon Dioxide | Nitrogen | Instrument Air |
| 1/8" NPT | 3222-WAG-NT2 | 3222E-CO2-NT2 | 3222E-NIT-NT2 | 3222-IA-NT2 |
| 1/4" or 5/16" Hose Barb | 3222-WAG-HB5 | 3222E-CO2-HB4 | 3222E-NIT-HB4 | 3222-IA-HB4 |

### DISS  Hand Tight Adapters (ISO Standard)

| DISS Hand Tight | | | | |
|---|---|---|---|---|
| **ISO Standard** | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
| 1/8" NPT | 3222E-OXY-NT2 | 3222E-VAC-NT2 | 3222E-AIR-NT2 | 3222E-N2O-NT2 |
| 1/4" or 5/16" Hose Barb | 3222E-OXY-HB4 | 3222E-VAC-HB5 | 3222E-AIR-HB4 | 3222E-N2O-HB4 |
| DISS Hand Tight | | | | |
| **ISO Standard** | WAGD | Carbon Dioxide | Nitrogen | Instrument Air |
| 1/8" NPT | 3222E-WAG-NT2 | 3222E-CO2-NT2 | 3222E-NIT-NT2 | 3222-IA-NT2 |
| 1/4" or 5/16" Hose Barb | 3222E-WAG-HB5 | 3222E-CO2-HB4 | 3222E-NIT-HB4 | 3222-IA-HB4 |

## Medical Gas Adapters
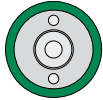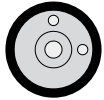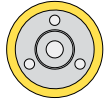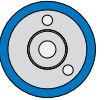
### French Standard

| FS | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
|---|---|---|---|---|
| 1/8" NPT | 3105E-O-NT2 | 3105E-V-NT2 | 3105E-A-NT2 | 3105E-2-NT2 |
| 1/4" or 5/16" Hose Barb | 3105E-O-HB4 | 3105E-V-HB5 | 3105E-A-HB4 | 3105E-2-HB4 |

### Australian Standard

| SIS | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
|---|---|---|---|---|
| 1/8" NPT | 3209-OXY-NT2 | 3209-VAC-NT2 | 3209-AIR-NT2 | 3209-N2O-NT2 |
| 1/4" or 5/16" Hose Barb | 3209-OXY-HB4 | 3209-VAC-HB5 | 3209-AIR-HB4 | 3209-N2O-HB4 |

### Japanese Standard

| JIS | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
|---|---|---|---|---|
| 1/8" NPT | 3108-OXY-NT2 | 3108-VAC-NT2 | 3108-AIR-NT2 | 3108-N2O-NT2 |
| 1/4" or 5/16" Hose Barb | 3108-OXY-HB4H | 3108-VAC-HB5H | 3108-AIR-HB4H | 3108-N2O-HB4H |

## Medical Gas Adapters

### DIN German Standard

| GS | Oxygen | Vacuum | Medical Air | Nitrous Oxide | Carbon Dioxide | Nitrogen | Instrument Air |
|---|---|---|---|---|---|---|---|
| **1/8" NPT** | | | | | | | |
| Chrome-plated Brass | 3106-OXY-NT2 | 3106-VAC-NT2 | 3106-AIR-NT2 | 3106-N2O-NT2 | 3106-CO2-NT2 | 3106-N2-NT2 | 3106-MA7-NT2 |
| Stainless Steel | 3116-OXY-NT2 | 3116-VAC-NT2 | 3116-AIR-NT2 | 3116-N2O-NT2 | 3116-CO2-NT2 | 3116-N2-NT2 | 3116-MA7-NT2 |
| **1/4" or 5/16" Hose Barb (180°)** | | | | | | | |
| Chrome-plated Brass | 3106-OXY-HB4 | 3106-VAC-HB5 | 3106-AIR-HB4 | 3106-N2O-HB4 | 3106-CO2-HB4 | 3106-N2-HB4 | 3106-MA7-HB4 |
| **1/4" or 5/16" Hose Barb (135°)** | | | | | | | |
| Stainless Steel | 3116-OXY-HB4 | 3116-VAC-HB5 | 3116-AIR-HB4 | 3116-N2O-HB4 | 3116-CO2-HB4 | 3116-N2-HB4 | 3116-MA7-HB4 |
| **1/4" or 5/16" Hose Barb (90°)** | | | | | | | |
| Stainless Steel | 3116-OXY-HB4H | 3116-VAC-HB5H | 3116-AIR-HB4H | 3116-N2O-HB4H | 3116-CO2-HB4H | 3116-NIT-HB4H | 3116-MA7-HB4H |

### British Standard

| BS | Oxygen | Vacuum | Medical Air | Nitrous Oxide | Carbon Dioxide | Nitrogen | Instrument Air |
|---|---|---|---|---|---|---|---|
| **1/8" NPT** | | | | | | | |
| Stainless Steel | 3117-OXY-NT2 | 3117-VAC-NT2 | 3117-AIR-NT2 | 3117-N2O-NT2 | 3117-CO2-NT2 | 3117-N2-NT2 | 3117-MA7-NT2 |
| **1/4" or 5/16" Hose Barb** | | | | | | | |
| Stainless Steel | 3117-OXY-HB4 | 3117-VAC-HB5 | 3117-AIR-HB4 | 3117-N2O-HB4 | 3117-CO2-HB4 | 3117-N2-HB4 | 3117-MA7-HB4 |

## Medical Gas Adapters

### DISS Adapter with Check Valve

| DISS | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
|---|---|---|---|---|
| 1/8" NPT | DISS-OXY-NT2(NT4) | DISS-VAC-NT2(NT4) | DISS-AIR-NT2(NT4) | DISS-N2O-NT2(NT4) |
| 1/8" NPT with Check Valve | DISS-OXY-NT2(NT4)/CHK | DISS-VAC-NT2(NT4)/CHK | DISS-AIR-NT2(NT4)/CHK | DISS-N2O-NT2(NT4)/CHK |
| 1/4" or 5/16" Hose Barb | DISS-OXY-HB4 | DISS-VAC-HB5 | DISS-AIR-HB4 | DISS-N2O-HB4 |

### NIST / FNIST Adapter with Check Valve

| NIST | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
|---|---|---|---|---|
| 1/4" or 5/16" Hose Barb | NIST-OXY-HB4 | NIST-VAC-HB5 | NIST-AIR-HB4 | NIST-N2O-HB4 |
| **FNIST** | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** |
| 1/8" NPT | FNIST-OXY-NT2(NT4) | FNIST-VAC-NT2(NT4) | FNIST-AIR-NT2(NT4) | FNIST-N2O-NT2(NT4) |
| 1/8" NPT with Check Valve | FNIST-OXY-NT2(NT4)/CHK | FNIST-VAC-NT2(NT4)/CHK | FNIST-AIR-NT2(NT4)/CHK | FNIST-N2O-NT2(NT4)/CHK |
| 1/4" or 5/16" Hose Barb | FNIST-OXY-HB4 | FNIST-VAC-HB5 | FNIST-AIR-HB4 | FNIST-N2O-HB4 |
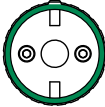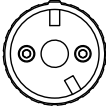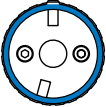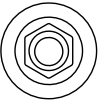
## Couplers

### Ohmeda® Couplers
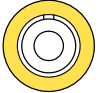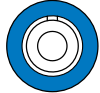
| Ohmeda® | | | | |
|---|---|---|---|---|
| **USA Standard** | **Oxygen** | Vacuum | **Medical Air** | **Nitrous Oxide** |
| 1/8" NPT | 3911U-O-NT2 | 3911U-V-NT2 | 3911U-A-NT2 | 3911U-2-NT2 |
| 1/4" or 5/16" Hose Barb | 3911U-O-HB4 | 3911U-V-HB5 | 3911U-A-HB4 | 3911U-2-HB4 |

### DIN Couplers

| DIN | | | | |
|---|---|---|---|---|
| **ISO Standard** | Oxygen | **Vacuum** | **Medical Air** | **Nitrous Oxide** |
| 1/8" NPT | 3916E-O-NT2 | 3916E-V-NT2 | 3916E-A-NT2 | 3916E-2-NT2 |
| 1/4" or 5/16" Hose Barb | 3916E-O-HB4 | 3916E-V-HB5 | 3916E-A-HB4 | 3916E-2-HB4 |
| 1/8" FNPT | 3916E-O-FNT2 | 3916E-V-FNT2 | 3916E-A-FNT2 | 3916E-V-FNT2 |
| **Neutral Color** | Oxygen | Vacuum | Medical Air | Nitrous Oxide |
| 1/4" or 5/16" Hose Barb | 3916B-O-HB4 | 3916B-V-HB5 | 3916E-A-HB4 | |

## Couplers

### BS Couplers

| BS |  |  |  |  |
|---|---|---|---|---|
| **ISO Standard** | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** |
| 1/8" NPT | 3917E-O-NT2 | 3917E-V-NT2 | 3917E-A-NT2 | 3917E-2-NT2 |
| 1/4" or 5/16" Hose Barb | 3917E-O-HB4 | 3917E-V-HB5 | 3917E-A-HB4 | 3917E-2-HB4 |

### JIS Couplers

| JIS |  |  |  |  |
|---|---|---|---|---|
| **JIS Standard** | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** |
| 1/8" NPT | 3918E-O-NT2 | 3918E-V-NT2 | 3918E-A-NT2 | 3918E-2-NT2 |
| 1/4" or 5/16" Hose Barb | 3918E-O-HB4 | 3918E-V-HB5 | 3918E-A-HB4 | 3918E-2-HB4 |
| 1/8" FNPT | 3918E-O-FNT2 | 3918E-V-FNT2 | 3918E-A-FNT2 | 3918E-V-FNT2 |

### SIS Couplers

| SIS |  |  |  |  |
|---|---|---|---|---|
| | **Oxygen** | **Vacuum** | **Medical Air** | **Nitrous Oxide** |
| 1/8" NPT with Check Valve | 3109M-OXY-NT2(NT4)/CHK | 3109M-VAC-NT2(NT4)/CHK | 3109M-AIR-NT2(NT4)/CHK | 3109M-N2O-NT2(NT4)/CHK |
| 1/4" or 5/16" Hose Barb | 3109M-OXY-HB4/CHK | 3109M-VAC-HB5/CHK | 3109M-AIR-HB4/CHK | 3109M-N2O-HB4/CHK |

## Twin Coupler

Twin Couplers are available in Ohmeda, British (BS), Australian (SIS), German (DIN), Japanese (SIS), and DISS configurations.

| | | | |
|---|---|---|---|
| **Ohmeda®**<br>Y-OXY-CPLR-OH | **DIN**<br>Y-OXY-CPLR-GS | **BS**<br>Y-AIR-CPLR-BS | **JIS**<br>Y-OXY-CPLR-JIS |

| | | |
|---|---|---|
| **DISS**<br>Y-OXY-CHK-DH | **Afnor FS**<br>Y-OXY-CPLR-FS | **SIS**<br>Y-OXY-CPLR-SIS |

## Medical Gas Adapters

### Hose Barb Adapters

| | | | |
|---|---|---|---|
| 3102A-OXY-HB4 / 3102P-OXY-HB4<br>Christmas Tree (Hose Barb), Aluminum | 3100E-HB-01(Green)<br>9/16" UNF Christmas Tree (Hose Barb), Plastic | 3100E-HB-01(White)<br>9/16" UNF Christmas Tree (Hose Barb), Plastic | NIST-OXY-HB4 / NIST-AIR-HB4<br>NIST Adapter (Chrome-plated Brass) |

### Convert Adapters

| | | | | | |
|---|---|---|---|---|---|
| 1-8FMPT-hose<br>90° Connector, 1/8"-FNPT | NT2-HB4/5<br>1/8"-NPT ,1/4" (5/16" ) | FNT2-HB4/5<br>1/8"-FNPT ,1/4" (5/16" ) | R892M-51<br>1/8"-NPT | FM-E1/2<br>1/8"-NPT, 1/8"-FNPT | FM-E2<br>2" Length, 1/8"-NPT, 1/8"-FNPT |

### Others Adapters

| | | | | | |
|---|---|---|---|---|---|
| 35E- φ 14.2 (5/16") /<br>34E- φ 13 (1/4")<br>Ferrules & Stainless Steel | R195-63<br>Hose Clamp Stainless Steel | 34K-11-13<br>Hose Clamp Stainless Steel | FMS-2<br>Security Cable | 82601-0006<br>PTFE Tape | 281MA-21<br>Washers |

## 88XVR Series 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 8 seconds off, 16 seconds on. On/off settings can be adjusted

### Control Knob

- Easy adjustment of vacuum pressure
- No Leakage
- Agion® Antimicrobial protection
  - Built-in long lasting antimicrobial protection
  - Based on naturally-occurring silver
  - Inhibits growth of microbes on surface of knobs and switches
  - Environmentally friendly technology
  - Broad Regulatory Approvals including EPA, FDA, NSF, USDA, Canada, European BPD, Swiss and EFSA
- Color Coding available in both NFPA 99 and ISO 32 Color Code

NFPA          ISO32

### Fittings

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

881VR-300-XX
Continuous / Intermittent
0~300 mmHg

### Glow in The Dark Gauge

- 2-1/2" gauge, easy to read
- Color coded flow ranges
- Dual Scale mmHg and kPa
- Clockwise, counter-clockwise or digital gauge mode (features an analogscale in digital mode where a digital reading is on screen and an analog meter on the outer ring)

Clockwise    Counter-clockwise    Digital gauge

### Cover

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

### Interior Structure

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

### Suction Trap

- Prevents contamination caused by overflow

## Technical Specification

| | 881VR Series Continuous / Intermittent | | | 882VR Series Continuous-only | | | |
|---|---|---|---|---|---|---|---|
| **Clockwise** | 881VR-160 pediatric | 881VR-200 adult | 881VR-300 adult | 882VR-160 pediatric | 882VR-200 adult | 882VR-300 adult | 882VR-760 surgical |
| **Counter-Clockwise** | 881VR-160E pediatric | | 881VR-300E adult | 882VR-160E adult | | 882VR-300E adult | 882VR-760E surgical |
| **Digital Gauge** | 881VR-160D pediatric | | 881VR-300D adult | 882VR-160D pediatric | | 882VR-300D adult | 882VR-760D surgical |
| **Mode Selection:** | | | | | | | |
| **OFF** | √ | √ | √ | √ | √ | √ | √ |
| **CONT** | √ | √ | √ | √ | √ | √ | √ |
| **INT** | √ | √ | √ | X | X | X | X |
| **FULL** | X | X | X | X | √ | √ | √ |
| **Regulated Vacuum Range** | 0~160 mmHg | 0~200 mmHg | 0~300 mmHg | 0~160 mmHg | 0~200 mmHg | 0~300 mmHg | 0~760 mmHg |
| **Gauge Display Range** | 0~160 mmHg | 0~200 mmHg | 0~300 mmHg | 0~160 mmHg | 0~200 mmHg | 0~300 mmHg | 0~760 mmHg |
| **Gauge Accuracy** | ± 4% | ± 4% | ± 4% | ± 4% | ± 4% | ± 4% | ± 4% |
| **Intermittent Time** | Suction: 16 seconds, Stop: 8 seconds | | | / | / | / | / |
| **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** | 1 lb / 0.455 kg | | | 0.81 lb / 0.37 kg | | | |
| **Dimensions** | 6.3" H × 3.15" W × 3.94" D / 16 × 8 × 10 cm | | | 6.3" H × 3.15" W × 3.94" D / 16 × 8 × 10 cm | | | |

## Ordering Information

| 00 | OH | DH | DS | CH | PB |
|---|---|---|---|---|---|
| No Adapter 1/8" NPT (F) | Omeda® 3111-VAC-NT2 | DISS Hand-tight 3222-VAC-NT2 | DISS Hex 3102-VAC-NT2 | Chemetron® 3103-VAC-NT2 | Puritan-Bennett® 3114-VAC-NT2 |
| FS | GS | BS | JIS | SIS | |
| 3101-VAC-NT2 | 3116-VAC-NT2 | 3117-VAC-NT2 | 3108-VAC-NT2 | 3209-VAC-NT2 | |

Vacuum Connector

| A | T | B | C | D |
|---|---|---|---|---|
| No Adapter 1/8" NPT (F) | Suction Trap Assembly (Complete) | Trap Fitting Only (No Trap) | DISS Male Vacuum | Tubing Nipple (5/16" Hose Barb) |

Sucton Connector

| Ex: | 881VR | - 300 | | - 00 | - T |
|---|---|---|---|---|---|
| | Series | Vacuum Range | Gguge | Vacuum Connector | Sucton Connector |
| | 881VR 882VR | 160: 0~160 mmHg 200: 0~200 mmHg (only for clockwise) 300: 0~300 mmHg 760: 0~760 mmHg | None: Clockwise E: Counter-Clockwise D: Digital Gauge | 00: No Adapter, 1/8" NPT (F) OH: Ohmeda® adapter (male) DH: DISS Handwheel adapter (male) DS: DISS hex adapter (male) CH: Chemetron® adapter (male) PB: Puritan-Bennett® adapter (male) FS: French (NF S 90-116) adapter (male) GS: German (DIN 13260-2) adapter (male) BS: British (BS5682-1998) adapter (male) JIS: Japanese Style adapter (male) SIS: Australian (AS2896) adapter (male) | A: No Adapter, 1/8" NPT (F) T: Suction Trap Assembly (Complete) B: Trap Fitting Only (No Trap) C: DISS Male Vacuum D: Tubing Nipple (5/16" Hose Barb) |

## 880VS Series Venturi Suction Regulator

### Glow in The Dark Gauge

- 2" gauge, easy to read
- Color coded flow ranges
- Dual Scale mmHg and kPa

### Safety Device

- Positive pressure relief valve provides safe use
- ISO 10079-3 Compliant

### Control Knob

- Easy adjustment of vacuum pressure
- No Leakage

### Suction Connector

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

### Suction Trap

- Prevents contamination caused by overflow

### Type of Adapter

- None: Without adapter
- OH: Ohmeda® adapter
- DS: DISS hex adapter
- DH: DISS Handwheel 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

### Venturi Suction

- Delivers steady and high vacuum flow from a medical air or oxygen gas source
- Control Range： -1 kPa ~ - 80 kPa

### Technical Specification

| | |
|---|---|
| **Dimension (H x W x D)** | 90 x 90 x 60 mm |
| **Weight** | 490 g |
| **Range** | -1 kPa ~ -80 kPa |
| **Maximum Suction** | > 25 L / min |
| **Source of Pressure** | 300 ~ 500 kPa |
| **Vacuum Control** | Needle valve control venturi |
| **Vacuum Gauge Range** | 0 ~ -100 kPa / 0 ~ 760 mmHg |

880VS-760-00-A-T

## Ordering Information

| 00 | OH | DH | DS | CH | PB |
|---|---|---|---|---|---|
| No Adapter | Omeda® | DISS Hand-tight | DISS Hex | Chemetron® | Puritan-Bennett® |
| 1/8" NPT (F) | 3101-OXY-NT2 | 3222-OXY-NT2 | 3102-OXY-NT2 | 3103-OXY-NT2 | 3104-OXY-NT2 |
| | 3111-AIR-NT2 | 3222-AIR-NT2 | 3102-AIR-NT2 | 3103-AIR-NT2 | 3114-AIR-NT2 |

| FS | GS | BS | JIS | SIS | OE |
|---|---|---|---|---|---|
| FS | GS | BS | JIS | SIS | OE |
| 3101-OXY-NT2 | 3116-OXY-NT2 | 3117-OXY-NT2 | 3108-OXY-NT2 | 3209-OXY-NT2 | Oxyquip Air |
| 3101-AIR-NT2 | 3116-AIR-NT2 | 3117-AIR-NT2 | 3108-AIR-NT2 | 3209-AIR-NT2 | 3301-AIR-NT2 |

Vacuum Connector

Sucton Connector

| A | T | TD | TH | H | D | N | F |
|---|---|---|---|---|---|---|---|
| No Adapter 1/8" NPT (F) | Suction Trap Assembly (Complete) | Suction Trap (with DISS female nut & nipple vacuum fitting) | Suction Trap (with DISS female vacuum hand-tight) | Tubing Nipple (5/16" Hose Barb) | DISS Male Vacuum | NIST vacuum fitting | Trap Fitting Only (No Trap) |

| Ex: | 880VS | - 760 | - 00 | | - A | - T |
|---|---|---|---|---|---|---|
| | Series | Measuring Range | Vacuum Connection | | Driving Gas | Suction Connection |
| | 880VS | 760: 0~760 mmHg | 00: No adapter, 1/8" NPT (F) OH: 3111U (Ohmeda) adapter DH: 3222U (DISS hand-tight) adapter DS: 3102 (DISS Hex) adapter CH: 3103 (Chemetron) adapter PB: 3104 (Puritan-Bennett) adapter FS: 3105 (FS) adapter GS: 3116 (GS) adapter BS: 3117 (BS) adapter JIS: 3108 (JIS) adapter SIS: 3109 (SIS) adapter OE: 3301 Oxyquip air dapter | | A: Medical Air O: Oxygen | 00: No adapter, 1/8" NPT (F) T: With suction trap assembly (complete) TD: With suction trap (complete DISS Female nut) TH: With suction trap (complete DISS female vacuum hand-tight) H: With tubing nipple (5/16" hose barb) D: With DISS male vacuum N: With NIST adapter F: With trap fitting only (no trap) |

## POMER-VAC 880VC Series Venturi Actuated Suction Device

Power-Vac 880VC Series is a venturi actuated suction device which features two power take-off connectors for connecting oxygen sources. It can be used in hospital treatments, powering devices, life support, and any circumstances where patients require the assistant of oxygen or suction therapy. The device can be connected to a central oxygen pipeline outlet or cylinder regulator with a pre-set outlet pressure.

### Dual Scale

- 2" gauge, easy to read
- -100 ~ 0 kPa and -760~0 mmHg scale
- Color coded pressure gauge and identification labels

SIS          NFPA

### Type of Adapter

- None: Without adapter
- OH: Ohmeda® adapter
- DS: DISS hex adapter
- DH: DISS Handwheel 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

### Highly Compatible

- Internationally recognized SIS (AS2896) or DISS (CGA V-5) adaptors

### Power Take-Offs
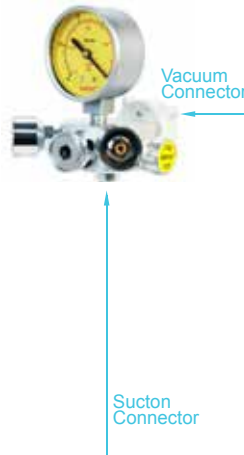
- Provides dual oxygen connectors for oxygen therapy applications

### Suction Trap

- Prevents contamination caused by overflow

### Suction Connector

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

880VC-760-SIS-T

With SJ Series Reusable Jars

## Ordering Information

| 00 | OH | DH | DS | CH | PB |
|---|---|---|---|---|---|
| No Adapter 1/8" NPT (F) | Omeda® 3101-OXY-NT2 3111-AIR-NT2 | DISS Hand-tight 3222-OXY-NT2 3222-AIR-NT2 | DISS Hex 3102-OXY-NT2 3102-AIR-NT2 | Chemetron® 3103-OXY-NT2 3103-AIR-NT2 | Puritan-Bennett® 3104-OXY-NT2 3114-AIR-NT2 |

| FS | GS | BS | JIS | SIS | OE |
|---|---|---|---|---|---|
| FS 3101-OXY-NT2 3101-AIR-NT2 | GS 3116-OXY-NT2 3116-AIR-NT2 | BS 3117-OXY-NT2 3117-AIR-NT2 | JIS 3108-OXY-NT2 3108-AIR-NT2 | SIS 3209-OXY-NT2 3209-AIR-NT2 | OE Oxyquip Air 3301-AIR-NT2 |

Vacuum Connector

Sucton Connector

| A | T | TD | TH | H | D | N | F |
|---|---|---|---|---|---|---|---|
| No Adapter 1/8" NPT (F) | Suction Trap Assembly (Complete) | Suction Trap (with DISS female nut & nipple vacuum fitting) | Suction Trap (with DISS female vacuum hand-tight) | Tubing Nipple (5/16" Hose Barb) | DISS Male Vacuum | NIST vacuum fitting | Trap Fitting Only (No Trap) |

| Ex: | 880VC | - 760 | - 00 | - O | - T |
|---|---|---|---|---|---|
| | Series | Measuring Range | Vacuum Connection | Driving Gas | Suction Connection |
| | 880VC | 760: 0~760 mmHg | 00: No adapter, 1/8" NPT (F) OH: 3111U (Ohmeda) adapter DH: 3222U (DISS hand-tight) adapter DS: 3102 (DISS Hex) adapter CH: 3103 (Chemetron) adapter PB: 3104 (Puritan-Bennett) adapter FS: 3105 (FS) adapter GS: 3116 (GS) adapter BS: 3117 (BS) adapter JIS: 3108 (JIS) adapter SIS: 3109 (SIS) adapter | A: Medical Air O: Oxygen | 00: No adapter, 1/8" NPT (F) T: With suction trap assembly (complete) TD: With suction trap (complete DISS Female nut) TH: With suction trap (complete DISS female vacuum hand-tight) H: With tubing nipple (5/16" hose barb) D: With DISS male vacuum N: With NIST adapter F: With trap fitting only (no trap) 1L: With SJ Series Reusable Jars,1L |

# OXYGEN THERAPY

Medical Ejector Suction System

## Venturi System

Canister

Hose

Filter

Venturi Vacuum Modules

Hose

Suction Regulator

## Ordering Information

| Ex: | 881VG | - 300 | E | - A | - 00 | - T |
|---|---|---|---|---|---|---|
| | **Series** | **Measuring Range** | **Pointer Rotate Mode** | **Driving Gas** | **Vacuum Connection** | **Suction Connection** |
| | 881VG<br>882VG | 160: 0~160 mmHg<br>200: 0~200 mmHg<br>300: 0~300 mmHg<br>760: 0~760 mmHg<br>(only for 882VG) | None: Clockwise (USA)<br>E: Counter-clockwise (ISO) | A: Air<br>O: Oxygen | 00: No adapter 1/8" NPT (F)<br>FDS: DISS hose barb (USA)<br>FNS: NIST hose barb (ISO) | T: Suction trap assembly (complete)<br>None: Without suction trap |

Standard suction hose length is 0.5 m, for other length, please contact GENTEC.

## Venturi Vacuum Modules

880VE-00/U

### Features

- Designed to work with vacuum regulator
- Small and compact
- With positive pressure relief valve
- With silencer
- Maximum vacuum: 0 ~ 600 mmHg
- Maximum air free flow: 30 L / min
- Noise: < 60 dBa

## Disposable Collection

### Features

- Constructed with durable polyethylene material
- Used with polycarbonate reusable collection jars
- Liner can be easily disposed and replaced
- Tandem port for multiple canister connections
- Overflow protection and non-return valves prevent backflow
- Can be used with GENTEC® re-usable collection jar
- Holds 1 or 2 liters
- Hose barb inlet and outlet

**Liner** + **Collections Jar** = **Liner with Collections Jar**

### Use of Liners

**Step 1**
Place liner into jar
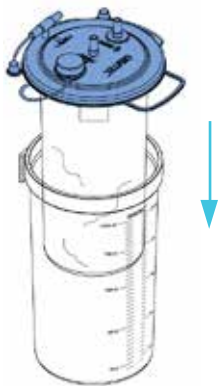
880VE-X

**Step 2**
Press lid down firmly
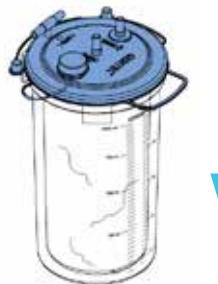
**Step 3**
Attach vacuum tubing to vacuum port
Attach patient tubing to patient port

PATIENT tubing

VACUUM tubing

**Step 4**
Hang on the Wall Slide

(More information about wall slide, see P56)
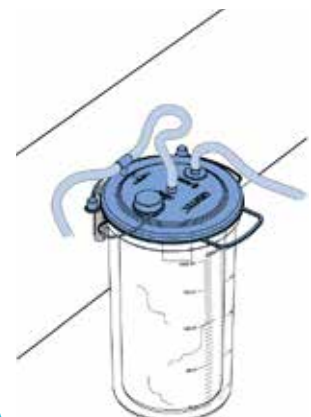
## Disposable Collection

**Two Liners Connected in Tandem** →

PATIENT Tubing

VACUUM Tubing

PATIENT Tubing

VACUUM Tubing
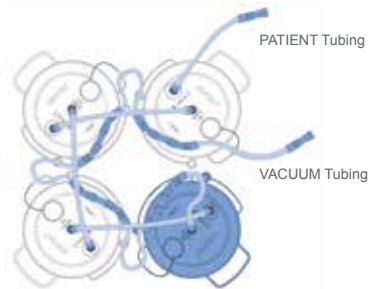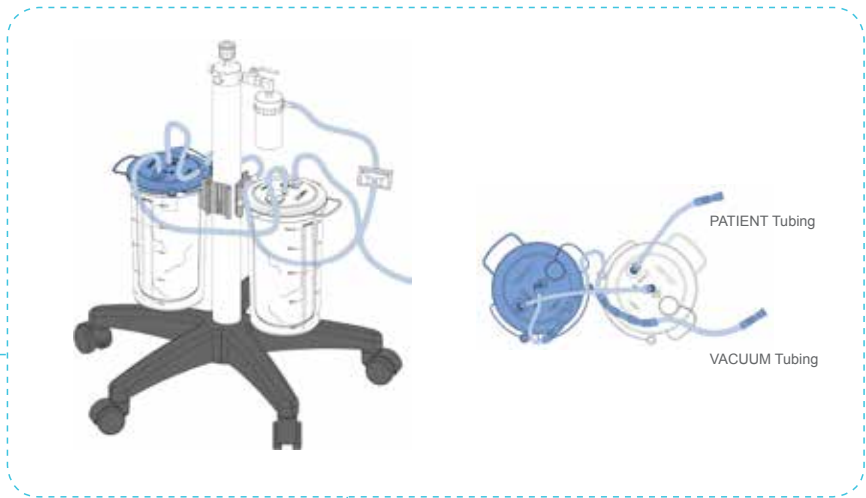
← **Four Liners Connected in Tandem**

**Four Liners Connected in Tandem** →

PATIENT Tubing

VACUUM Tubing

VACUUM Tubing

PATIENT Tubing
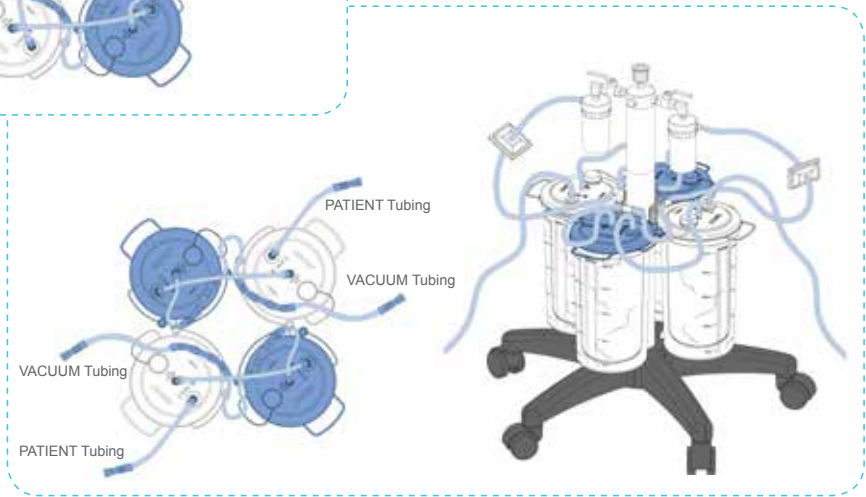
## Ordering Information

| DL-2000B | 615-901 | DL-2000B(L) | DL-2000W(L) | DL-1000B(L) | DL-1000W(L) | 615-901(L) | 615-902 | 615-903 | 615-904 | 615-905 |
|---|---|---|---|---|---|---|---|---|---|---|
| Liner with overflow protection, 2L (Φ6-8 hose barb) | Collections Jar, 2L, reusable | Liner with overflow protection, 2L | Liner without overflow protection, 2L | Liner with overflow protection, 1L | Liner without overflow protection, 1L | Collections Jar, 2L, reusable | Suction hose, ID 6.5mm, 0.35m with suction tip | Suction hose, ID 6.5mm, 2 m with suction tip | Suction hose, ID 6.5mm, 3 m with suction tip | Suction hose, ID 6.5mm, 10 m without suction tip |

*Solutions for Life*



## SJ Series Reusable Jars

- 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 121°C)
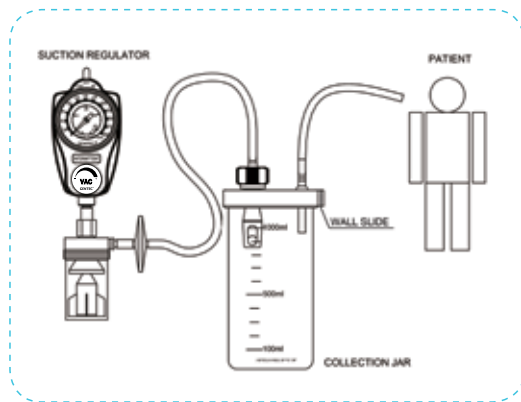


## DJ Series Disposable Jars

- 0.85 liter, 1 liter, and 2 liter models available
- comes with polycarbonate jar and cover
- Built-in bracket for use with GENTEC® wall slides
- Ball float design prevents overflow
- Hose barb inlet and outlet

## Ordering Information

| Model | SJ Series | | | | DJ Series | | |
|---|---|---|---|---|---|---|---|
| | 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 |
| **Overfill Protection Devices** | √ | √ | √ | √ | √ | √ | √ |
| **Vacuum Connection** | DISS | Hose Barb (Φ6-8) | Hose Barb (Φ6-8) | Hose Barb (Φ6-8) | Hose Barb (Φ6-8) | Hose Barb (Φ6-8) | Hose Barb (Φ6-8) |
| **Patient Connection** | Hose Barb (Φ6-8) | | | | | | |

* Add "-T" at the end of the model when ordering units without float trap for use in tandem

# OXYGEN THERAPY

Accessories

## Wall Slides

- For use on all surfaces
- Fits GENTEC® DJ, SJ & DL series canister



| SJ-CLP | CLP-D40-45 12~40mm | CLP-D30 10~30mm | 3910-Sld | 3820-Sld |

## Collection Stations

- Designed to support collection jars
- Stable 5-caster base with two locking casters
- Durable construction, easy to clean
- Supports up to 4 canisters
- Includes suction trap for additional safety
- Shut-off valve and canister slides included



DISS Adapter

Hose Barb

810-00(DH) / 810-00(HB)

## Suction Tubings

| Model | Description |
| --- | --- |
| ST6-4 | Suction Tubing 1/4" (6mm), I.D.  4 Meters, Without Suction Tip |
| ST6-100 | Suction Tubing 1/4" (6mm), I.D.  100 Meters, Without Suction Tip |
| ST8-4 | Suction Tubing 5/16" (8mm), I.D.  4 Meters, Without Suction Tip |
| ST8-160 | Suction Tubing 5/16" (8mm), I.D.  160 Meters, Without Suction Tip |
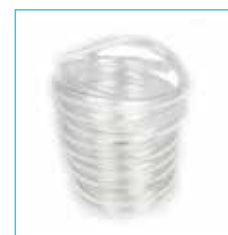
## Disposable Bacteria Filters

### Features

- Prevents contamination and fluid from entering the vacuum regulator and vacuum systems
- PVDF special filter material, can effectively filter the virus and bacteria
- Effective filtration area: 32 cm$^2$
- Maximum operating temperature: 140 $^o$F (60 $^o$C)
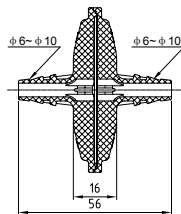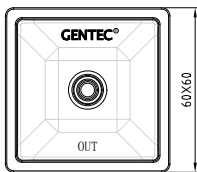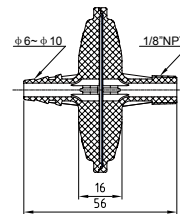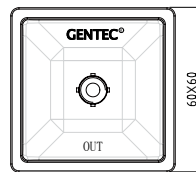- Maximum operating pressure: -14.5 ~ 14.5 psi
- Filters down to 0.22 micron



F11-HB



F11-NT2/HB

### Dimensions



F11-HB
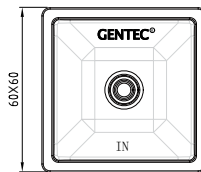


F11-NT2/HB
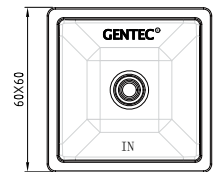
### Ordering Information

| Model | Description |
| --- | --- |
| F11-NT2/HB-0.45 | Hydrophobic, Inlet: 1/4" Hose Barb,Outlet: 1/8" NPT, Filter Accuracy: 0.45μm |
| F11-HB-0.45 | Hydrophobic, Inlet and Outlet: 1/4" Hose Barb, Filter Accuracy: 0.45μm |

## Medical Gas Systems & Devices Overview

- Medical Gas Systems Total Solution
- Source Equipment
- Zone Valve Box & Area Valve Service Unit
- Monitoring Alarm & Control System
- Art Wall Enclosure
- Medical Console Units

- Medical Gas Outlets
- Anaeathetic Gas Scavenging System
- Oxygen Therapy
- Suction Therapy
- Oxygen Concentrator & Nebulizers
- Respiratory Care

## Medical Pipeline System

- Medical Manifold Systems
- Zone Valve Box
- Area Valve Service Unit
- Medical Gas Coontrol Panel
- Medical Check Valves with Extensions

- Medical Alarm Systems
- Medical Art Wall Enclosure
- Medical Bedhead Units
- Medical Gas Outlets

## Respiratory Care Series Products

- Air/Oxygen Blenders
- NebuCare In-line Electrical Nebulizer
- Portable Mesh-Sonic Nebulizer
- NebuSmart All-in-one Nebulizer

- Disposable Collection System
- Anesthesia / Breathing Circuits
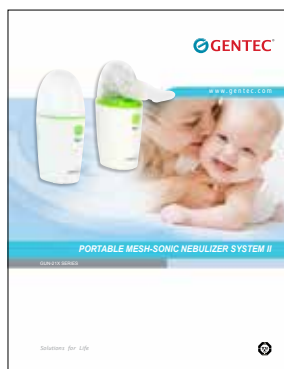- G-Smart Adult Test Lung
- Respire CPAP Mask

## OxyBlend Air/Oxygen Blender

- OxyBlend Air/Oxygen Blender
- Accessories
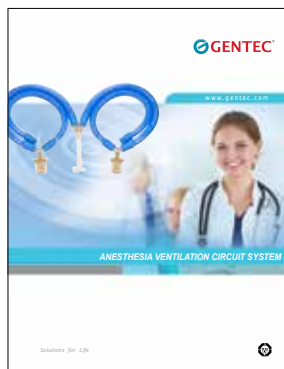
## Anesthesia Ventilation Circuit System

- Anesthesia, Breathing Circuit for Adult
- Anesthesia, Breathing Circuit for Child
- Accessories

## Portable Mesh-Sonic Nebulizer System II

- Portable Mesh-Sonic Nebulizer System II
- Replcement Parts

**GENTEC**®

Genstar Technologies Company Inc.

CATA#:MED12V2201-4

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Medical Solutions