

1



2100-0x

2

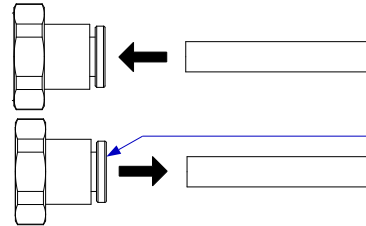


2101-0x

3

REV	ECO	Release	Drawn	REVISION HISTORY
-0	2019-051	2019-12-04	SGO	Customer Drawing - Insert

### OUTLET TUBING CONNECTION - 4mm/6mm Push-To-Connect Fittings



#### INSERTING

Push in the tubing

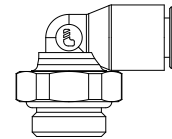
#### REMOVING

1. Push in the connector collar
2. Pull the tube straight back while holding the collar in

**To INSERT TUBING:** Push the tubing into the connector until resistance is felt, then push a little further, about 1/8 inch [3 mm]. Gently tug on the tubing to make sure it is captured.

**To REMOVE TUBING:** Push the tubing in slightly, then push in the connector collar while pulling gently on the tubing.

When removing tubing, **DO NOT pull on the tubing without pushing in the collar**, as this will likely damage the connector.



**Note:** Alternate right-angle outlet fitting provided.

- Replace installed fitting as preferred.
- Maintain cleanliness for oxygen service.
- No Teflon tape required
- Torque to 20 in-lbs.

### Gauge-Port Options:

Regulator comes with (21x1-xx) or without (21x0-xx) a pressure gauge, but may be retro-fitted for other applications:

- (unused) 1/8 MNPT Plug (MH p/n 00HDW-0390-00)
- MH-300 Gauge (MH p/n 00CPG-1010-00)
- MH-400 Gauge (MH p/n 00CPG-1011-00)
- Fill-Port (MH p/n 00BLT-1008-00)
- Plumb-in Remote Gauge, Remote Fill-Port, Multiple Cylinders, etc.

Contact MH Customer Service for help with your specific requirements

### Installing the Regulator

Seat the inlet nipple of the regulator into the corresponding outlet socket of the cylinder valve and turn the grip nut to engage the valve threads.

Complete the connection by turning the grip nut **HAND TIGHT ONLY! DO NOT use a wrench or pliers. Over-tightening will damage the regulator.** The integrity of the connection is provided by an o-ring seal and is not dependant on the tightness of the threaded coupling.

Connect the outlet tubing and assemble the remainder of your oxygen system (EDS unit or Flowmeter).

Open the cylinder valve **SLOWLY** (~ 2 turns).

### Removing the Regulator

DO NOT ATTEMPT TO REMOVE REGULATOR WHILE UNDER PRESSURE

The regulator grip-nut will be difficult to turn while under pressure, and doing so will destroy the regulator inlet O-ring.

Bleed-off internal pressure first by **closing the main cylinder valve** and then disconnecting the outlet tubing from the regulator.

The grip nut should now turn easily *by hand* and the regulator can be removed.

### GENERAL SPECIFICATIONS

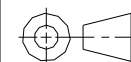
Inlet Pressure Rating:	3000 PSI MAX
Regulated Outlet:	16 ± 2 PSI (Dynamic) (NOM 1 Bar) 20 ± 2 PSI (Static)
Average Flow Rate:	40 L/min (AVG)
Spare O-ring:	MH p/n 09001-0011-90 (CGA-540 Inlet Nipple)
See also:	MH document 5SREG-21xx-xx

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

0.X	±0.015	ANGLES	± 3°
0.XX	±0.010	FRACTIONS	± 1/64
0.XXX	±0.005		

INTERPRET GD&T PER ASME 14.5

THIRD ANGLE PROJECTION



DO NOT SCALE DRAWING

DRAWN SGO  
2019-11-14

CHECKED EAM  
2019-12-04

ENGINEER TD  
2019-12-04

APPROVED HBS  
2019-12-04

# MH

**MOUNTAIN HIGH E&S CO.  
REDMOND, OR. USA**

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Regulator Assy 2G, Single-Stage,  
CGA-540N x Axial Tube (XCR/EOS) [Insert]

DWG TITLE  
**5IREG-210x-0x**

DWG NUMBER  
**5IREG-210x-0x**

DWG FORMAT: ESR-002 Rev H [20]  
DWG SCALE  
DWG SHEET 1 OF 1  
DWG SIZE 11x8 1/2

Insert #: 5IREG-210x-0x