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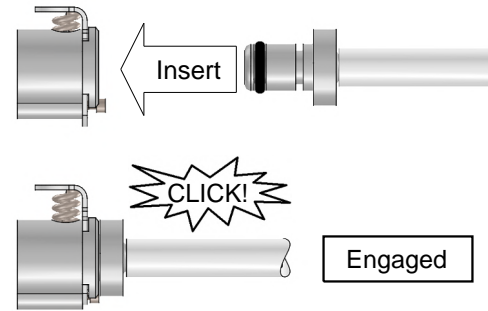
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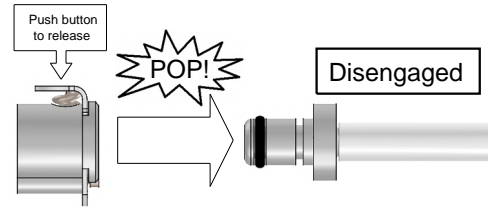
REV	ECO	Release	Drawn	REVISION HISTORY
-0	2019-051	2019-12-04	SGO	Customer Drawing - Insert

### OUTLET TUBING CONNECTION - CPC Quick-Connect Fittings



#### To insert:

Simply insert the male connector into the female outlet on the XCP/FPR regulator. Push in firmly until the connector engages with a "CLICK" sound. You now have a secure air-tight connection.



#### To remove:

Push in the side release button and the male connector will disengage with a "POP". The internal check valve will close to stop the flow of oxygen.

### 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

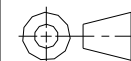
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:

0.X ±0.015  
0.XX ±0.010  
0.XXX ±0.005

ANGLES ± 3°  
FRACTIONS ± 1/64

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



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

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DWG TITLE  
**Regulator Assy 2G, Single-Stage,  
CGA-540N x CPC Outlet (XCP/FPR) [Insert]**

DWG NUMBER  
**5IREG-210x-1x**

DWG REV. **-0**

CAD FILE 00REG-21xx-xx\$[-0]  
INV. PART NUMBER 00REG-210x-10  
PROD. NAME 00REG-210x-14

DWG FORMAT: ESR-002 Rev H [20]  
DWG SCALE

DWG SHEET 1 OF 1

DWG SIZE 11x8½"

Insert #: 5IREG-210x-1x



2100-10



2100-14



2101-10



2101-14

### 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 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 inlet O-ring. Bleed-off internal pressure first by *closing the main cylinder valve* and then:

- 1) If using an EDS device, disconnect the XCP-to-EDS Supply Adapter tubing from the EDS device and then insert it into the regulator XCP/FPR outlet fitting.
- 2) If using an MH-3 or MH-4 Flowmeter, simply connect the Flowmeter to the regulator XCP/FPR outlet and allow the remaining oxygen to bleed via the connected Flowmeter.
- 3) A blunt instrument (such as a pen) may be inserted into the regulator XCP/FPR outlet in order to open the internal check valve and bleed-off the remaining oxygen.

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

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