REV	ECO	Release	Drawn	REVISION HISTORY
-0	2022-033	2022-11-07	SGO	Customer Drawing - Insert

Model 310-010
p/n 00REG-1004-01

GENERAL SPECIFICATIONS

Inlet Pressure Rating:	3000 PSI MAX
Regulated Output:	16 ± 2 PSI (Dynamic) (NOM 1 Bar)
	20 ± 2 PSI (Static)
Average Open Flow Rate:	50 L/min (AVG)
Weight:	3.6 Oz. [102 g]
Spare O-ring:	MH p/n 09001-0011-90 (CGA-540 Inlet Nipple)
See also:	MH document 5SREG-310-xxx

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 by first ***closing the main cylinder valve*** and then:

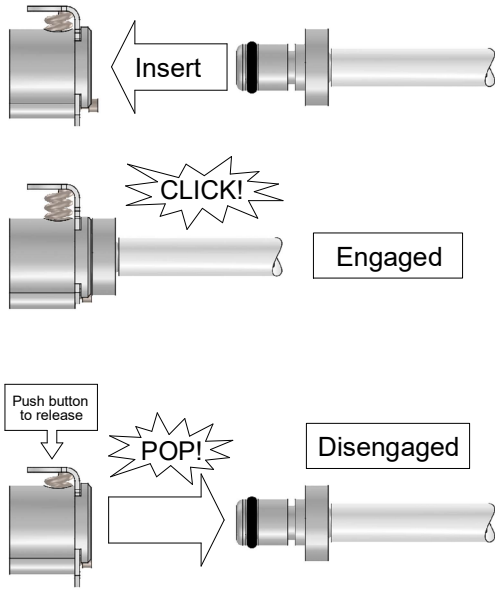
1) If using an EDS device, disconnect the XCP-to-EDS Supply Adapter tubing from the EDS device and then insert it into the regulator XCP/FPR outlet fitting.

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.

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.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
DIMENSIONS IN [ ] ARE MILLIMETERS (REF)
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
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THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

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

DRAWN SGO 2022-09-27	DWG TITLE	MH 3G Regulator, Single-Stage, NO-Gauge, CGA-540N x Radial CPC (XCP) [Insert]			
CHECKED EAM 2022-11-04	DWG NUMBER	**5IREG-1004-01**			DWG REV. **-0**
ENGINEER JB 2022-11-04	SRC FILE 00REG-310-xxx$-0	INV. PART NUMBER 00REG-1004-01	PROD. NAME		
APPROVED HBS 2022-11-07	DWG FORMAT: ESR-002 Rev H [27]	DWG SCALE	DWG SHEET 1 OF 1	DWG SIZE A 11x8½	

Insert #: 5IREG-1004-01