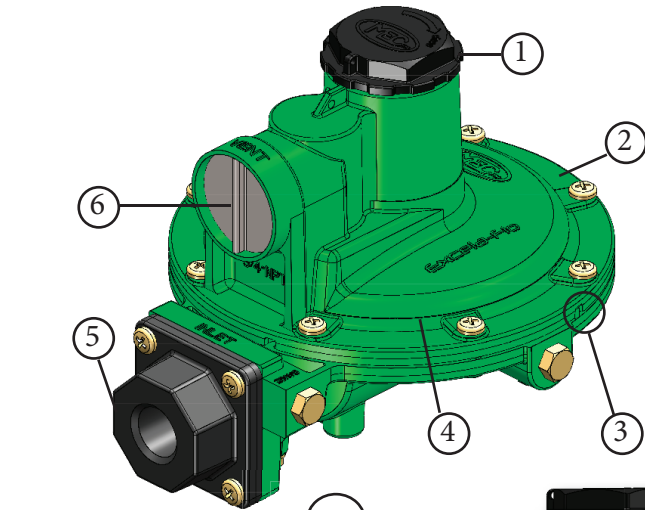
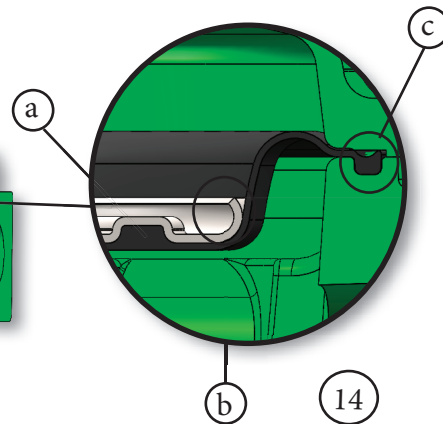
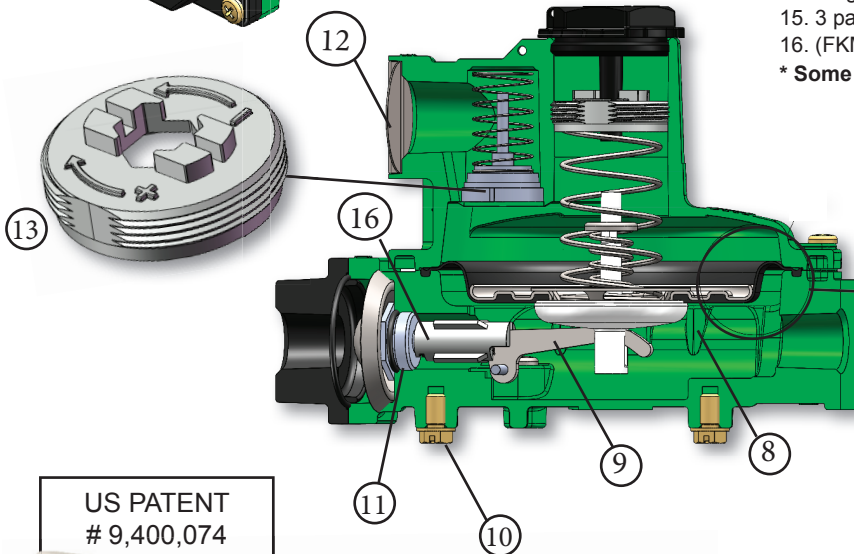


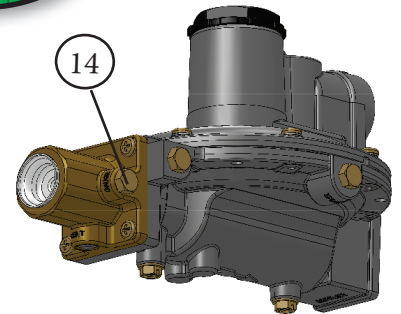
Exclusive Features and Benefits



1. Dust cap with hex and finger grips
 2. Full round flange for evenly distributed compression
 3. Locating tabs
 4. Premium powder coat inside and out
 5. Large wrench flats
 6. Ribbed vent screen for easy removal
 7. Fabric reinforced molded diaphragm
 - a. Interlocking diaphragm and diaphragm plate.
 - b. Rounded edges on diaphragm plate
 - c. Sealing and locating bead on diaphragm
 8. Travel stops - to prevent damage to diaphragm
 9. Stainless steel lever design
 10. Pre-installed mounting screws for installation convenience
 11. Large aluminum orifice
 12. Large drip vent
 13. Adjustment direction indicator
 14. Plugged high pressure gauge port on all integral two stage regulators
 15. 3 part tear off data label for installation records
 16. (FKM) Fluorocarbon seats for maximum protection against contamination
- * Some features - Patent Pending

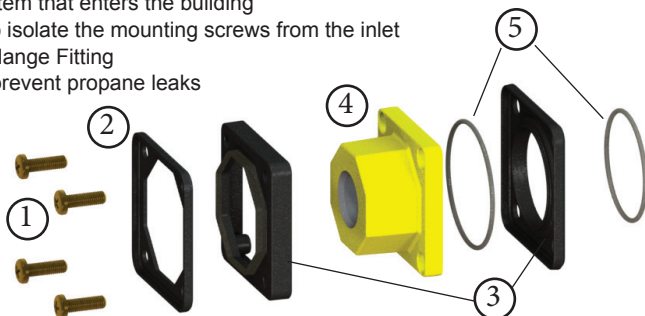


US PATENT
9,400,074

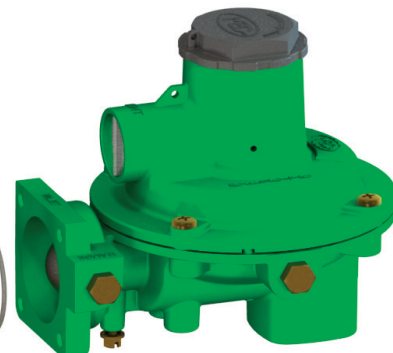


SENTINEL DIELECTRIC INLET CONSTRUCTION

1. Mounting Screws
2. Reinforcement Plate
 - a. distributes mounting screw loads across plate
 - b. drip-lip to prevent water and condensation collection
3. Dielectric Isolator Plate and Cover
 - a. plate and cover install over the inlet flange to electrically insulate the inlet piping from the piping system that enters the building
 - b. plate is designed to isolate the mounting screws from the inlet
4. Dielectric 3/4" FNPT Flange Fitting
5. Double o-ring seal to prevent propane leaks



PATENT PENDING



SENTINEL DIELECTRIC INLET

PATENT PENDING



MEGR-1222D/MEGR-1622D
Compact/Full Size Series



PATENT PENDING



MEGR-1252D
Compact Back Mount



PATENT PENDING



MEGR-1642D
Full Size Series



PATENT PENDING



MEGR-1652D
Back Mount Series



SENTINEL Series Second Stage Dielectric Regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to 11" WC in domestic installations. All MEC SENTINEL Series second stage regulators are green with yellow inlet connections indicating low outlet pressure and dielectric separation. Second stage regulator vents have FNPT drip lip tapped ports and our exclusive E-Z grip screens located over the inlet. All MEC Sentinel Series second stage domestic regulators feature an all stainless steel inlet filter screen to reduce debris from passing through the regulator. Both the MEGR-1622D and the MEGR-1652D Series regulators offer optimal relief performance that well exceeds UL test requirements providing double failure overpressure protection (no more than 2 PSI downstream pressure) when used with MEGR-1122H, MEGR-1222H and MEGR-1622H Series First Stage regulators. All MEC **Excela-Flo**™ domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

SENTINEL Series Second Stage Dielectric Regulators feature an integral dielectric inlet connection designed to isolate upstream metallic piping from electrical current prior to piping entering a building in compliance with NFPA58 - 2017 section 6.11.316. Since the FNPT inlet serves as the dielectric separation media, any standard MNPT threaded connector or valve can be installed without a separate dielectric union. Both compact and full size models feature the same basic footprint measurement from inlet to outlet, as all standard **Excela-Flo**™ second stage regulators, making it ideal for regulator change-outs.

MEGR-1622D & MEGR-1652D Series feature inlet and outlets that are inline, while the MEGR-1252D and MEGR-1652D offer a convenient rear back mount discharge outlet. The MEGR-1642D Series offers a side discharge located 90 degrees from the inlet making it ideal for installations with horizontal piping including those with vapor metering systems.

SPECIFICATIONS

Type: Second Stage

Max. Inlet Pressure: 10 PSIG

Exterior Finish: Green Powder Coat Body and Yellow Powder Coat Inlet

Interior Finish: Green Powder Coat

Orifice Size: Compact - .14" (BAF), 0.17" (CFF & DFF) / Full - 0.219"

Diaphragm: Fabric Reinforced (NBR) Molded Lip O-Ring Bonnet/Body Seal

Relief Type: Internal Relief - Spring Loaded

Bonnet / Body Material: Die Cast Aluminum

Seat Material: Fluorocarbon (FKM)

Listings:  / UL 144

Mounting Holes: Standard 3-1/2" Center

Pressure Taps: #54 Orifice 1/8" FNPT Plugged (2)

Relief Travel Stop: Molded In Adjustment Cap - Black (Full Size), Gray (Compact)



Tested in the
U.S.A

Patented Technology: Pat. #9,400,074 / Pat. #9,709,998

Part No.	Type	Capacity in BTU/H LPG ⁽¹⁾	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-1222D-BAF	Compact	500,000	1/2" FNPT	1/2" FNPT	9.5-13	11
MEGR-1222D-CFF	Compact	800,000	1/2" FNPT	3/4" FNPT	9.5-13	11
MEGR-1222D-DFE	Compact	800,000	3/4" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252D-BAF ⁽²⁾	Compact Back Mount	500,000	1/2" FNPT	1/2" FNPT	9.5-13	11
MEGR-1252D-CFF ⁽²⁾	Compact Back Mount	650,000	1/2" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252D-DFE ⁽²⁾	Compact Back Mount	700,000	3/4" FNPT	3/4" FNPT	9.5-13	11
MEGR-1622D-BCF	Full Size	710,000	1/2" FNPT	1/2" FNPT	9-13	11
MEGR-1622D-CFF	Full Size	1,300,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1622D-DFE	Full Size	1,300,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1642D-DFE ⁽³⁾	Full Size	900,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1652D-CFF ⁽²⁾	Full Size Back Mount	1,000,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1652D-DFE ⁽²⁾	Full Size Back Mount	1,000,000	3/4" FNPT	3/4" FNPT	9-13	11

(1) Based on 10 PSIG inlet pressure and 20% droop (2) Indicates back mount configuration (3) Indicates side discharge configuration

SENTINEL 2 PSI DIELECTRIC INLET

SENTINEL Series 2 PSI Second Stage Dielectric Regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to nominal 2 PSI in domestic installations. 2 PSI service regulators are used in conjunction with an LPG line regulator either at the indoor appliance or a remote manifold distribution header inlet. All MEC SENTINEL 2 PSI Series second stage regulators are white with yellow inlet connections indicating 2 PSI outlet pressure and dielectric separation. 2 PSI service regulators have 3/4" FNPT tapped vents and our exclusive E-Z grip screens located over the inlet. All MEC SENTINEL Series 2 PSI SERVICE regulators feature an all stainless steel inlet filter screen to reduce debris from passing through the regulator. Both the **MEGR-1622ED** and the **MEGR-1652ED** Series regulators offer optimal relief performance that well exceeds UL test requirements. All MEC **Excela-Flo™** domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

SENTINEL Series 2 PSI Second Stage Dielectric Regulators feature an integral dielectric inlet connection designed to isolate upstream metallic piping from electrical current prior to piping entering a building in compliance with NFPA58 - 2017 section 6.11.316. Since the FNPT inlet serves as the dielectric separation media, any standard MNPT threaded connector or valve can be installed without a separate dielectric union. All models feature the same basic footprint measurement from inlet to outlet as standard **Excela-Flo™** Second Stage regulators, making it ideal for regulator change-outs.

PATENT PENDING



MEGR-1622ED Series
features an inline inlet and outlet orientation.



PATENT PENDING



MEGR-1652ED-DFH
Features a rear discharge back mount outlet for convenient wall mount applications.



SPECIFICATIONS

- Type:** 2 PSI
- Max. Inlet Pressure:** 10 PSIG
- Exterior Finish:** White Coat Body and Yellow Powder Coat Inlet
- Interior Finish:** White Powder Coat
- Orifice Size:** 0.219"
- Diaphragm:** Fabric Reinforced (NBR) Molded Lip O-Ring Bonnet/Body Seal
- Relief Type:** Internal Relief - Spring Loaded
- Bonnet / Body Material:** Die Cast Aluminum
- Seat Material:** Fluorocarbon (FKM)
- Listings:** cUL_{US} / UL 144
- Mounting Holes:** Standard 3-1/2" Center
- Pressure Taps:** #54 Orifice 1/8" FNPT Plugged (2)
- Relief Travel Stop:** Molded In Adjustment Cap - Black
- Patented Technology:** Pat. #9,400,074 / Pat. #9,709,998













Tested in the U.S.A

Part No.	Type	Capacity in BTU/H LPG ⁽¹⁾	Inlet	Outlet	Vent Port	Outlet Adj. Range (PSI)	Outlet Set Point (PSI)
MEGR-1622ED-BCH	Full Size	1,100,000	1/2" FNPT	1/2" FNPT	3/4" FNPT	1.0 - 2.2	2
MEGR-1622ED-DCH	Full Size	1,400,000	3/4" FNPT	3/4" FNPT	3/4" FNPT	1.0 - 2.2	2
MEGR-1652ED-DFH ⁽²⁾	Full Size Back Mount	1,300,000	3/4" FNPT	3/4" FNPT	3/4" FNPT	1.0 - 2.2	2

(1) Based on 10 PSIG inlet pressure and 20% droop
(2) Indicates back mount configuration


SENTINEL DIELECTRIC INLET REFERENCE GUIDE

LOAD BTU/HR.	DISTANCE Maximum distance from 1st stage regulator to 2nd stage regulator	PIPE SIZE Between 1st and 2nd Stage Regulator	MEC REGULATOR	MEC PIGTAILS												
400,000	80 Feet	1/2" CTS iron pipe or 1/2" OD copper tubing @ 10 PSI	1ST STAGE Compact MEGR-1122H-AAJ 1/4" x 1/2" MEGR-1222H-BGF F. POL x 1/2" 	<table border="1"> <thead> <tr> <th>1/4" X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1689-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1669-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>6"</td> <td>ME1669-06</td> </tr> </tbody> </table>	1/4" X POL	Length	Part No.	3/8" tube OD	12"	ME1689-12	1/4" tube OD	12"	ME1669-12	1/4" tube OD	6"	ME1669-06
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3/8" tube OD	12"	ME1689-12														
1/4" tube OD	12"	ME1669-12														
1/4" tube OD	6"	ME1669-06														
2ND STAGE Compact MEGR-1222D-BAF 1/2" x 1/2" MEGR-1222D-CFF 1/2" x 3/4" Backmounts MEGR-1252D-BAF 1/2" x 1/2" MEGR-1252D-CFF 1/2" x 3/4" 	<table border="1"> <thead> <tr> <th>POL X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1680-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1664-12</td> </tr> <tr> <td>3/8" tube OD</td> <td>6"</td> <td>ME1680-06</td> </tr> </tbody> </table>	POL X POL	Length	Part No.	3/8" tube OD	12"	ME1680-12	1/4" tube OD	12"	ME1664-12	3/8" tube OD	6"	ME1680-06			
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3/8" tube OD	12"	ME1680-12														
1/4" tube OD	12"	ME1664-12														
3/8" tube OD	6"	ME1680-06														
600,000	40 Feet	1/2" CTS iron pipe or 1/2" OD copper tubing @ 10 PSI	1ST STAGE Compact MEGR-1122H-AAJ 1/4" x 1/2" MEGR-1222H-BGF F. POL x 1/2" MEGR-1222H-BGJ F. POL x 3/4" 	<table border="1"> <thead> <tr> <th>1/4" X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1689-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1669-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>6"</td> <td>ME1669-06</td> </tr> </tbody> </table>	1/4" X POL	Length	Part No.	3/8" tube OD	12"	ME1689-12	1/4" tube OD	12"	ME1669-12	1/4" tube OD	6"	ME1669-06
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1/4" tube OD	12"	ME1669-12														
1/4" tube OD	6"	ME1669-06														
100 Feet	5/8" OD copper tubing @ 10 PSI	2ND STAGE Compact MEGR-1222D-BAF 1/2" x 1/2" MEGR-1222D-CFF 1/2" x 3/4" MEGR-1222D-DFJ 3/4" x 3/4" Backmounts MEGR-1252D-BAF 1/2" x 1/2" MEGR-1252D-CFF 1/2" x 3/4" MEGR-1252D-DFJ 3/4" x 3/4" 	<table border="1"> <thead> <tr> <th>POL X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1680-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1664-12</td> </tr> <tr> <td>3/8" tube OD</td> <td>6"</td> <td>ME1680-06</td> </tr> </tbody> </table>	POL X POL	Length	Part No.	3/8" tube OD	12"	ME1680-12	1/4" tube OD	12"	ME1664-12	3/8" tube OD	6"	ME1680-06	
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1,000 Feet	3/4" IPS iron pipe @ 10 PSI	2ND STAGE Full Size - Straight Outlet MEGR-1622D-CFF 1/2" x 3/4" MEGR-1622D-DFJ 3/4" x 3/4" Backmounts MEGR-1652D-CFF 1/2" x 3/4" MEGR-1652D-DFJ 3/4" x 3/4" 	<table border="1"> <thead> <tr> <th>POL X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1680-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1664-12</td> </tr> <tr> <td>3/8" tube OD</td> <td>6"</td> <td>ME1680-06</td> </tr> </tbody> </table>	POL X POL	Length	Part No.	3/8" tube OD	12"	ME1680-12	1/4" tube OD	12"	ME1664-12	3/8" tube OD	6"	ME1680-06	
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800,000	20 Feet	1/2" OD copper tubing @ 10 PSI	1ST STAGE Compact MEGR-1122H-AAJ 1/4" x 1/2" MEGR-1222H-BGF F. POL x 1/2" MEGR-1222H-BGJ F. POL x 3/4" 	<table border="1"> <thead> <tr> <th>1/4" X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1689-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1669-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>6"</td> <td>ME1669-06</td> </tr> </tbody> </table>	1/4" X POL	Length	Part No.	3/8" tube OD	12"	ME1689-12	1/4" tube OD	12"	ME1669-12	1/4" tube OD	6"	ME1669-06
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70 Feet	5/8" OD copper tubing @ 10 PSI	2ND STAGE Full Size - Straight Outlet MEGR-1622D-CFF 1/2" x 3/4" MEGR-1622D-DFJ 3/4" x 3/4" Backmounts MEGR-1652D-CFF 1/2" x 3/4" MEGR-1652D-DFJ 3/4" x 3/4" 	<table border="1"> <thead> <tr> <th>POL X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1680-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1664-12</td> </tr> <tr> <td>3/8" tube OD</td> <td>6"</td> <td>ME1680-06</td> </tr> </tbody> </table>	POL X POL	Length	Part No.	3/8" tube OD	12"	ME1680-12	1/4" tube OD	12"	ME1664-12	3/8" tube OD	6"	ME1680-06	
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600 Feet	3/4" IPS iron pipe @ 10 PSI	2ND STAGE Full Size - Straight Outlet MEGR-1622D-CFF 1/2" x 3/4" MEGR-1622D-DFJ 3/4" x 3/4" Backmounts MEGR-1652D-CFF 1/2" x 3/4" MEGR-1652D-DFJ 3/4" x 3/4" 	<table border="1"> <thead> <tr> <th>POL X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1680-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1664-12</td> </tr> <tr> <td>3/8" tube OD</td> <td>6"</td> <td>ME1680-06</td> </tr> </tbody> </table>	POL X POL	Length	Part No.	3/8" tube OD	12"	ME1680-12	1/4" tube OD	12"	ME1664-12	3/8" tube OD	6"	ME1680-06	
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1,000,000	10 Feet	1/2" CTS iron pipe or copper tubing @ 10 PSI	1ST STAGE Compact MEGR-1222H-BGJ F. POL x 3/4" Full Size MEGR-1622H-HGJ F. POL x 1/2" MEGR-1622H-JGJ F. POL x 3/4" 	<table border="1"> <thead> <tr> <th>POL X POL</th> <th>Length</th> <th>Part No.</th> </tr> </thead> <tbody> <tr> <td>3/8" tube OD</td> <td>12"</td> <td>ME1680-12</td> </tr> <tr> <td>1/4" tube OD</td> <td>12"</td> <td>ME1664-12</td> </tr> <tr> <td>3/8" tube OD</td> <td>6"</td> <td>ME1680-06</td> </tr> </tbody> </table>	POL X POL	Length	Part No.	3/8" tube OD	12"	ME1680-12	1/4" tube OD	12"	ME1664-12	3/8" tube OD	6"	ME1680-06
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50 Feet	5/8" OD copper tubing @ 10 PSI	2ND STAGE Full Size - Straight Outlet MEGR-1622D-CFF 1/2" x 3/4" MEGR-1622D-DFJ 3/4" x 3/4" Backmounts MEGR-1652D-CFF 1/2" x 3/4" MEGR-1652D-DFJ 3/4" x 3/4" 														
400 Feet	3/4" IPS iron pipe @ 10 PSI	2ND STAGE Full Size - Straight Outlet MEGR-1622D-CFF 1/2" x 3/4" MEGR-1622D-DFJ 3/4" x 3/4" Backmounts MEGR-1652D-CFF 1/2" x 3/4" MEGR-1652D-DFJ 3/4" x 3/4" 