

# DOMESTIC - SECOND STAGE

## 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 **Excelsa-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 NFPA 58 – 2020 section 6.11.3.17. 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 **Excelsa-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:** cUL<sub>US</sub> / 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)



Part No.	Type	Capacity in BTU/H LPG <sup>(1)</sup>	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-DFF	Compact	800,000	3/4" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252D-BAF <sup>(2)</sup>	Compact Back Mount	450,000	1/2" FNPT	1/2" FNPT	9.5-13	11
MEGR-1252D-CFF <sup>(2)</sup>	Compact Back Mount	650,000	1/2" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252D-DFF <sup>(2)</sup>	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-DFF	Full Size	1,300,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1642D-DFF <sup>(3)</sup>	Full Size	900,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1652D-CFF <sup>(2)</sup>	Full Size Back Mount	1,000,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1652D-DFF <sup>(2)</sup>	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

# COMPACT MODELS

These compact second stage regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSIG) to 11" WC in domestic installations. All MEC second stage regulators are green indicating low outlet pressure. Compact second stage regulator vents have 3/8" FNPT tapped ports and our exclusive E-Z grip screens located over the inlet. All MEC second stage domestic regulators feature a stainless steel inlet filter screen to reduce debris from passing through the regulator. All MEC **Excelsa-Flo™** domestic regulators feature a 25 year recommended replacement life and our exclusive 3-part tear away leak check adhesive sticker.

PATENT PENDING



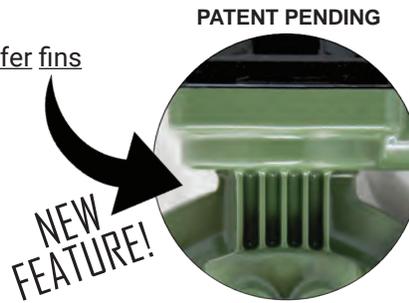
MEGR-1222 Series

**MEGR-1222 & MEGR-1252 Series:** Offers a compact second stage regulator design perfect for lower to intermediate BTU applications. They feature an adjustable range from 9.5-13" WC (factory set @ 11" WC), stainless steel internal components, fluorocarbon (FKM) seat discs, molded lip fabric reinforced diaphragms and large aluminum precision machined orifices providing superior downstream regulation and maximum corrosion resistance against weather or contaminated gas. The MEGR-1222 Series have both the inlet and outlet in line where the MEGR-1252 series have a rear discharge back mount outlet for convenient wall mount applications.

- NEW patent pending anti-freeze heat transfer fins

## SPECIFICATIONS

- Type:** Second Stage
- Max. Inlet Pressure:** 10 PSIG
- Exterior Finish:** Green Powder Coat
- Interior Finish:** Green Powder Coat
- Orifice Size:** 0.14" (BAF), 0.17" (CFF & DFF)
- 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 - Gray



MEGR-1252 Back Mount



Part No.	Type	Capacity in BTU/H LPG <sup>(1)</sup>	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-1222-BAF	Top Mount	500,000	1/2" FNPT	1/2" FNPT	9.5-13	11
MEGR-1222-CFF	Top Mount	800,000	1/2" FNPT	3/4" FNPT	9.5-13	11
MEGR-1222-DFF	Top Mount	800,000	3/4" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252-BAF <sup>(2)</sup>	Back Mount	450,000	1/2" FNPT	1/2" FNPT	9.5-13	11
MEGR-1252-CFF <sup>(2)</sup>	Back Mount	650,000	1/2" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252-DFF <sup>(2)</sup>	Back Mount	700,000	3/4" FNPT	3/4" FNPT	9.5-13	11

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



# DOMESTIC - SECOND STAGE

## FULL SIZE MODELS

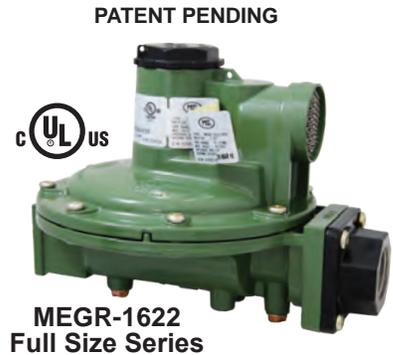
These second stage regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to 11" WC in domestic installations. All MEC second stage regulators are green indicating low outlet pressure. Second stage full size regulator vents have 3/4" FNPT tapped ports and our exclusive E-Z grip screens located over the inlet. All MEC second stage domestic regulators feature a stainless steel inlet filter screen to reduce debris from passing through the regulator. Both the MEGR-1622 and the MEGR-1652 Series offer optimal relief performance that exceeds UL test requirements providing double failure overpressure protection (no more than 2 PSI downstream pressure) when used with MEGR-1122H and MEGR-1622H Series First Stage regulators. All MEC **Excelsa-Flo™** domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

### MEGR-1622 & MEGR-1652 Series:

Offers all of the same features as the compact MEGR-1122 Series but in a full size, high capacity version. Our full size second stage regulators have a large fabric reinforced diaphragm for superior downstream regulation, heavy duty wrench flats, and a large 3/4" FNPT tapped drip lip vent to help prevent relief valve blockage. The MEGR-1622 Series have both the inlet and outlet in line where the MEGR-1652 series have a rear discharge back mount outlet for convenient wall mount applications.

### SPECIFICATIONS

- Type:** Second Stage
- Max. Inlet Pressure:** 10 PSIG
- Exterior Finish:** Green Powder Coat
- Interior Finish:** Green 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<sub>us</sub> / 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



Part No.	Type	Capacity in BTU/H LPG <sup>(1)</sup>	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-1622-BCF	Top Mount	710,000	1/2" FNPT	1/2" FNPT	9-13	11
MEGR-1622-CFF	Top Mount	1,300,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1622-CFFXO <sup>(3)</sup>	Top Mount	1,300,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1622-DFF	Top Mount	1,300,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1622-DFFXO <sup>(3)</sup>	Top Mount	1,300,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1652-CFF <sup>(2)</sup>	Back Mount	1,000,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1652-DFF <sup>(2)</sup>	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 vent over outlet



# DOMESTIC - SECOND STAGE

## SIDE OUTLET

These second stage regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to 11" WC in domestic installations. All MEC second stage regulators are green indicating low outlet pressure. Second stage regulator vents have 3/4" FNPT tapped ports and our exclusive E-Z grip screens located over the inlet. All MEC second stage domestic regulators feature a stainless steel inlet filter screen to reduce debris from passing through the regulator. The MEGR-1642 Series offers 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 **Excelsa-Flo™** domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

**MEGR-1642 Series:** Features an adjustable range from 9-13" WC (factory set @ 11" WC), stainless steel internal components, fluorocarbon (FKM) seat discs, molded lip fabric reinforced diaphragms and large aluminum precision machined orifices providing superior downstream regulation and maximum corrosion resistance against weather or contaminated gas.

Our full size second stage regulators have a large fabric reinforced diaphragm for superior downstream regulation, heavy duty wrench flats, and a large 3/4" FNPT tapped drip lip vent to help prevent relief valve blockage. The MEGR-1642 Series has the outlet at 90 degrees from the inlet making it ideal for vapor meter installations.

### SPECIFICATIONS

**Type:** Second Stage

**Max. Inlet Pressure:** 10 PSIG

**Exterior Finish:** Green Powder Coat

**Interior Finish:** Green Powder Coat

**Orifice Size:** 0.219" (Full)

**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<sub>US</sub> / 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

PATENT PENDING



**MEGR-1642-DFF**

MEC Excelsa-Flo™ Second Stage Domestic Regulators						
Part No.	Type	Capacity in BTU/H LPG <sup>(1)</sup>	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-1642-DFF	Full Size Side Outlet	900,000	3/4" FNPT	3/4" FNPT	9-13	11

(1) Based on 10 PSIG inlet pressure and 20% droop



Tested in the U.S.A

# HIGH CAPACITY - SECOND STAGE LIGHT COMMERCIAL

The MEGR-1622C Series Light Commercial Regulators feature higher output capacity and are designed to reduce outlet pressures from first stage regulators (normally 10 PSI) to 11" WC (Black Cap) or 18" WC (yellow cap), in light commercial/industrial applications. All MEC second stage regulators are green indicating low output pressure with MEGR-1622C units featuring higher output 12"-24" WC range indicated with yellow bonnet adjustment cap. Second stage full size regulator vents have 3/4" FNPT tapped ports and our exclusive E-Z grip screen located over the inlet. The MEGR-1622C Series regulators feature a stainless steel inlet filter screen to reduce debris from passing through the regulator and affecting sealing performance. The MEGR-1622C Series regulators also offer optimal relief performance that exceeds UL test requirements providing double failure overpressure protection (no more than 2 PSI downstream pressure) when utilized in conjunction with MEC MEGR-1122H or MEGR-1622H Series first stage regulators. All MEC **Excela-Flo™** Regulators feature a 25 year recommended replacement life and our exclusive 3 part tear away adhesive leak check sticker.

## SPECIFICATIONS

- Type:** Adjustable / Inches WC
- Max. Inlet Pressure:** 10 PSIG
- Exterior Finish:** Green Powder Coat
- Interior Finish:** Green Powder Coat
- Orifice Size:** 0.264"
- 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:** cULus / 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 (9-13" WC), Yellow (12-24" WC)



**MEGR-1622C-DGF**

9-13" WC



**MEGR-1622C-GGG**

12-24" WC



Part No.	Capacity in BTU/H LPG @ 8.8" WC Outlet Pressure	Capacity in BTU/H LPG @ 13" WC Set Point and 8.8" WC Outlet Pressure	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-1622C-DGF	1,800,000	2,200,000	3/4" FNPT	1" FNPT	9-13	11
MEGR-1622C-DGG	2,500,000	--	3/4" FNPT	1" FNPT	12-24	18
MEGR-1622C-GGF	1,800,000	2,200,000	1" FNPT	1" FNPT	9-13	11
MEGR-1622C-GGG	2,500,000	--	1" FNPT	1" FNPT	12-24	18



# DOMESTIC - SECOND STAGE

## 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 **Excelsa-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 **Excelsa-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<sub>US</sub> / 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

Part No.	Type	Capacity in BTU/H LPG <sup>(1)</sup>	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 <sup>(2)</sup>	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



# DOMESTIC - SECOND STAGE

## 2 PSI OUTLET

These 2 PSI service regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to a nominal 2 PSI. 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 2 PSI service regulators are white with black adjustment caps. The full size 2 PSI service regulators have 3/4" FNPT tapped vents and our exclusive E-Z grip screens located over the inlet. All MEC 2 PSI service regulators feature a stainless steel inlet filter screen to reduce debris from passing through the regulator. Both the MEGR-1622E and MEGR-1652E series offer optimal relief performance that 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.

### MEGR-1622E Series:

Offers a full size high capacity molded lip fabric reinforced diaphragm, stainless steel internal components, fluorocarbon (FKM) seat discs, precision machined aluminum orifices, and an adjustment range from 1.0-2.2 PSI (factory set @ 2 PSI) providing superior downstream regulation and maximum corrosion resistance against weather or contaminated gas.



### SPECIFICATIONS

- Type:** Second Stage 2 PSI
- Max. Inlet Pressure:** 10 PSI
- Exterior Finish:** White Powder Coat
- Interior Finish:** White Powder Coat
- Orifice Size:** 0.219"
- Seat Material:** Fluorocarbon (FKM)
- Diaphragm:** Fabric Reinforced (NBR) / Molded Lip O-Ring  
Bonnet/Body Seal
- Relief Type:** Internal Relief - Spring Loaded
- Bonnet / Body Material:** Die Cast Aluminum
- Listings:** cUL<sub>US</sub> / 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



### MEGR-1652E Series:

Offers all of the same features as the MEGR-1622E Series but with a rear discharge back mount outlet for convenient wall mount applications.

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

