

MIR700 Series

Single Stage, Compact Regulator
Stainless Steel or Brass



Value Proposition:

The MIR700 Series regulator offers a compact single stage regulator designed for low to medium pressure applications.

Constructed from brass or stainless steel, this unit is capable of handling a broad range of media. Reliable performance and modest size make the MIR700 Series regulator ideal for applications that require pressure control in a compact space.



Contact Information:

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Product Features:

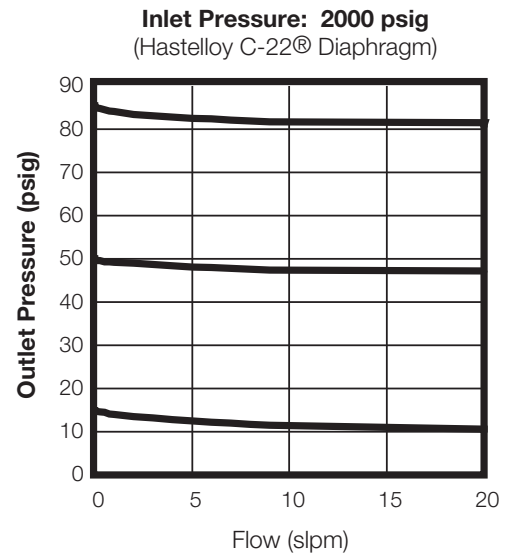
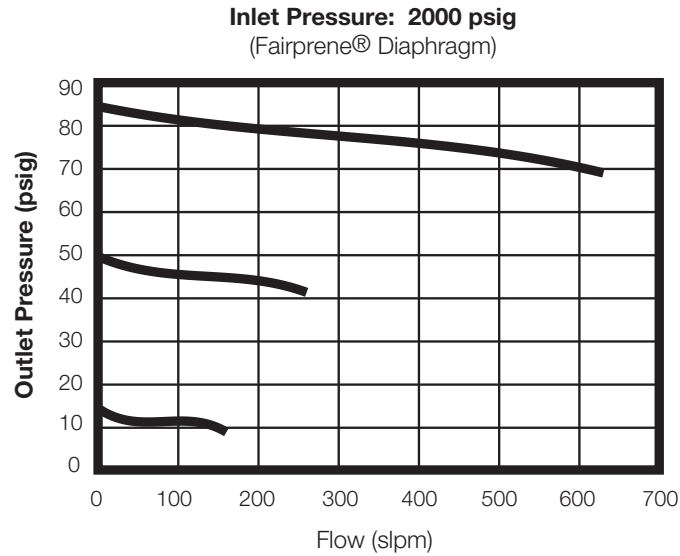
- Precise flexing Hastelloy C-22® diaphragm
- Low internal volume
- Cleaned for O₂ service is standard
- Machined from solid bar stock
- Proven valve seat assembly



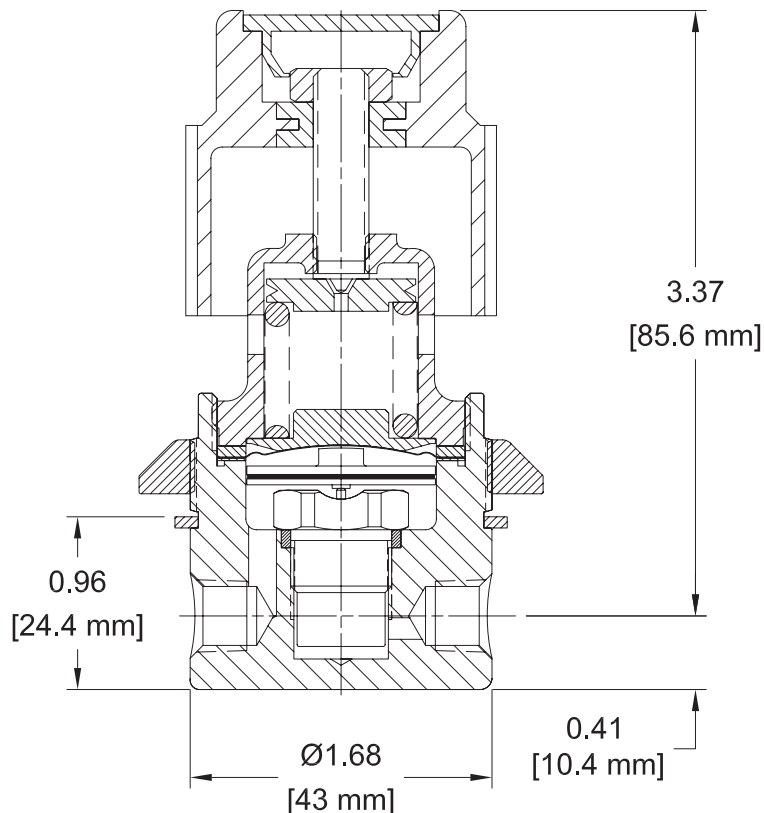
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MIR700 Series

Flow Curves



Dimensional Drawing











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Ordering Information


Build an MIR700 Series regulator by replacing the numbered symbols with an option from the corresponding tables below.


Color Explanations: Black = Standard Lead Time Configurations
Blue = Extended Lead Time Configurations
Green Italic = Express Service Program (ESP)


For an explanation of Ordering options please reference literature 25000275 at www.parker.com/veriflo


Sample: **MIR700**  **30**  **B**  **4P**  **03**  **30**  **4**  


Finished Order: **MIR70030B4P03304**

 **Pressure Setting**
15 = 1 - 15 psig
30 = 2 - 30 psig
100 = 3 - 100 psig
200 = 4 - 200 psig


 **Body Material**
B = Nickel Plated Brass
S = 316L Stainless Steel


 **Porting**
2P = 2 Ports
3P = 3 Ports
4P = 4 Ports
4PB = 4 Ports
See Regulator Porting Guide for additional options and port layouts

 **Outlet Gauge**
03 = 0 - 30 psig
01 = 0 - 100 psig
2 = 0 - 200 psig
X = No Gauge
Additional ranges available upon request

 **Inlet Gauge**
01 = 0 - 100 psig
2 = 0 - 200 psig
6 = 0 - 600 psig
10 = 0 - 1000 psig
20 = 0 - 2000 psig
30 = 0 - 3000 psig
40 = 0 - 4000 psig
X = No Gauge
Additional ranges available upon request

 **Port Style**
2 = 1/8" NPT Female
4 = 1/4" NPT Female

 **Optional Features**
This section can have multiple options
FTD = Fairprene® Diaphragm
M = Miniature Instrument Knob
MH = Mounting Holes
PM = Panel Mount
R = Relief Valve *4PB only*

 **CGA#**
320, 330, 350, 510, 580, 590 or 660
Do not exceed the rated pressure of the CGA connection.

Additional configurations available upon request.

Note: Veriflo reserves the right to plug NPT ports. If a true ported body is required, please contact Customer Service.

MIR700 Series

Specifications

Materials of Construction	
Wetted	
Body Options	316L Stainless Steel (Std) or Nickel Plated Brass
Diaphragm Options	Hastelloy C-22® (Std) or Fairprene®
Nozzle Assembly	
Nozzle Body Options	316L Stainless Steel (std) or Brass
Filter	316L Stainless Steel
Poppet Options	316L Stainless Steel (std) or Brass
Poppet Spring	Inconel® 600
Gasket	PTFE
Seat	PCTFE
Retaining Ring	15-7 PH
Non-wetted	
Cap	Nickel Plated Brass
Knob	ABS (Blue)

For additional information on materials of construction, functional performance and operating conditions, see Regulator Technical Bulletin.

Functional Performance	
Design	
Burst Pressure	9,000 psig (621 barg)
Proof Pressure	4,500 psig (310 barg)
Flow Capacity	C _v 0.02
Leak Rate	
Internal	Bubble Tight
External	Bubble Tight
Supply Pressure Effect	0.6 psig/100 psig (0.03barg/6.80 barg)
Internal Volume	3 cc
Approx. Weight	1.1 lbs. (0.5 kg)
Operating Conditions	
Maximum Inlet	3,000 psig (207 barg)
Outlet Options	1-15 psig (1 barg)
	2-30 psig (2 barg)
	3-100 psig (7 barg)
	4-200 psig (14 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

Fairprene® is a registered trademark of DuPont Performance Elastomers L.L.C.
Hastelloy C-22® is a registered trademark of Haynes International, Inc.
Inconel® is a registered trademark of Special Metals Corporation

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