MIR 700 Series

Compact Single Stage Regulator

VERIFLO
technological
leadership
by design
ISO 9001 Certified

The MIR 700 Series regulator is a general purpose, compact regulator designed for low to medium pressure applications.

Constructed from brass or stainless steel bar stock this unit is capable of handling a broad range of media. Its reliable performance and modest size make the MIR 700 Series regulator ideal for applications that require precision pressure control in a compact space.

features

- Precise flexing, Hastelloy C-22® Diaphragm.
- 100% tested.
- Cleaned for O_2 service.
- Proven valve seat assembly.
- Low internal volume.
- Machined from solid bar stock.
- Meets NACE MR-01-75.

options

- Pressure gauges.
- Miniature instrument knob.
- Panel mount.
- CGA fittings.
- Relief Valve.
- Fairprene Diaphragm.

materials of construction

Wetted

Body . . . . . 316L Stainless Steel, Chrome Plated Brass
Poppet . . . . . 316L Stainless Steel or Brass
Poppet Spring . . . . . Inconel® 625
Gasket . . . . . Teflon®
Nozzle Assy . . . . . 316 Stainless Steel or Brass
Seat . . . . . PCTFE (formerly Kel-F 81®)
Diaphragm . . . . . Hastelloy C-22®

Non-wetted

Cap . . . . . Chrome Plated Brass

operating conditions

Maximum inlet pressure . . . . . 3,000 psig (207 barg)
Outlet pressure . . . . . 0-15 psig (1 barg)
0-30 psig (2 barg)
0-100 psig (7 barg)
0-200 psig (14 barg)
Temperature . . . . . -40°F to 150°F (-40°C to 66°C)

functional performance

Flow capacity . . . . . C_V = .02, (ANSI/ISA S 75.02 1988 using water)
Supply pressure effect . . . . . 0.6 psig (0.03 barg) per 100 psig (6.80 barg)

Design Leak Rate:
Outboard . . . . . 1 x 10^{-9} scc/sec He
Inboard . . . . . 1 x 10^{-9} scc/sec He
Across seat . . . . . 4 x 10^{-8} scc/sec He

design parameters

Design proof pressure . . . . . 4500 psig (310 barg)
Design burst pressure. . . . . 9,000 psig (621 barg)

standard connections

1/8" or 1/4" female pipe threads (NPT) or optional CGA

approximate weight

1.1 lbs (.5 kg)

Parker Instrumentation

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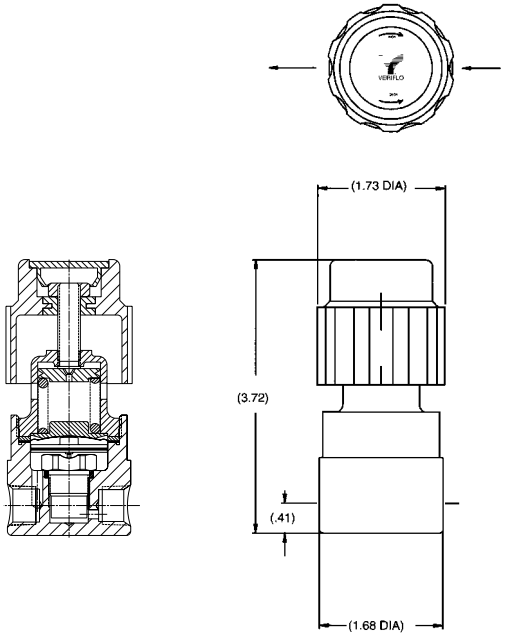
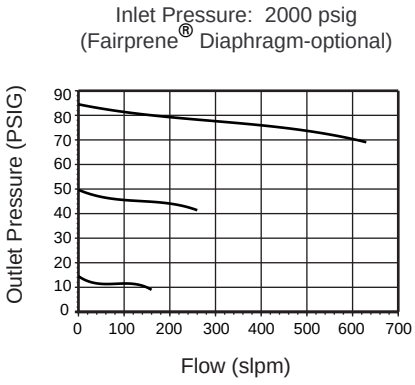
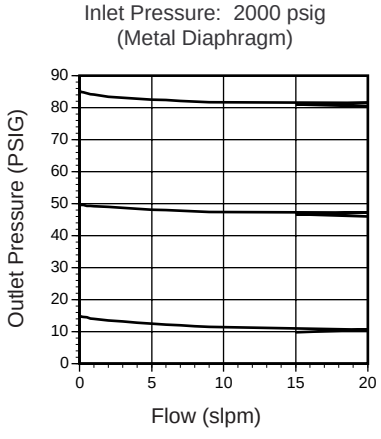
MIR 700 Series

Cross Sectional Drawing



Flow Curves





Ordering Information

MIR 700 30 B 5P 01 30 4 PM

BASIC SERIES

PRESSURE SETTING
- 15 = 15 psig
- 30 = 30 psig
- 100 = 100 psig
- 200 = 200 psig

MATERIAL
- B = Brass
- S = 316L Stainless Steel

PORTING
- 2P = 2 Ports
- 3P = 3 Ports
- 4P = 4 Ports
- 4PB = 4 Ports

***OUTLET GAUGE**
- 03 = 0 - 30 psig
- 0L = 0 - 60 psig
- 01 = 0 - 100 psig
- 2 = 0 - 200 psig
- X = No Gauge

OPTIONS
- PM = Panel Mount
- R = Relief Valve
- CGA = Inlet Connection (Specify CGA No.)††
- M = Miniature Instrument Knob
- FTD = Fairprene Diaphragm

PORT CONFIGURATION
- 2 = 1/8" NPTF
- 4 = 1/4" NPTF

***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

*** 1/4" NPT Guages Only**
†† Caution: Do not exceed the rated pressure of the CGA Connection.

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