QRM & QRMHF Series

UHP Single Stage, Miniature Pressure Regulator Welded, Stainless Steel

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Value Proposition:

Parker Hannifin Corporation's Veriflo Division presents the QRM and QRMHF pressure regulators. The QRM and QRMHF are miniature, high purity, threadless type, non-tied diaphragm regulators with a footprint designed to reduce system real estate.

The design of the QRM and QRMHF provides faster purge times and extends the seat life. They provide precise gas regulation and performance in a miniature regulator.

Contact Information:

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Veriflo Division
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Richmond, California 94804

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fax 510 232 7396
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www.parker.com/veriflo
Mobile App: m.parker.com/veriflo

Product Features:

- Standard Hastelloy C-22® diaphragm
- Miniature footprint with low internal volume
- Dimensions are interchangeable with Veriflo Quantum valves
- No threads exposed to the wetted area
- Standard full internal electropolish
- Critically Dampened to improve MFC Flow Stability

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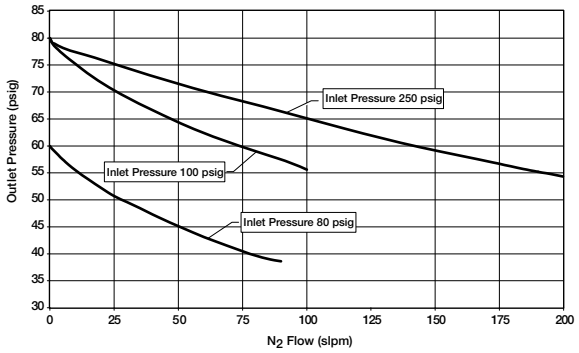
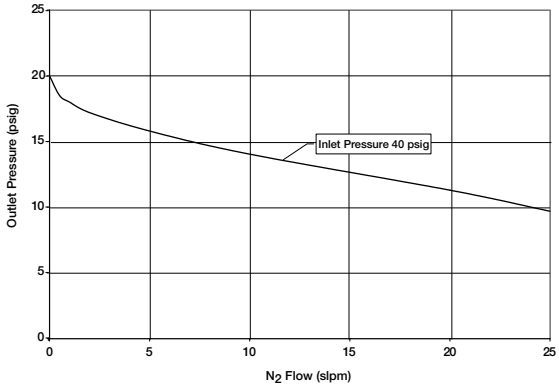
Flow Curves

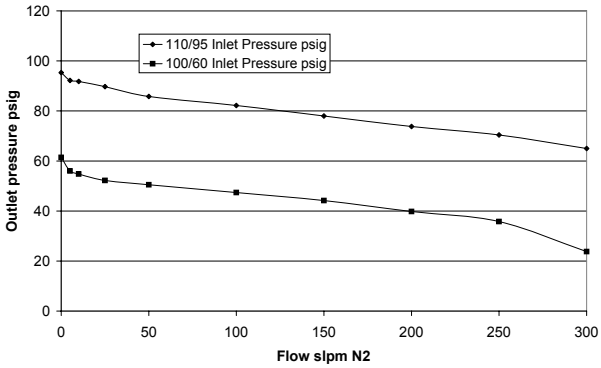
Additional flow curves available upon request

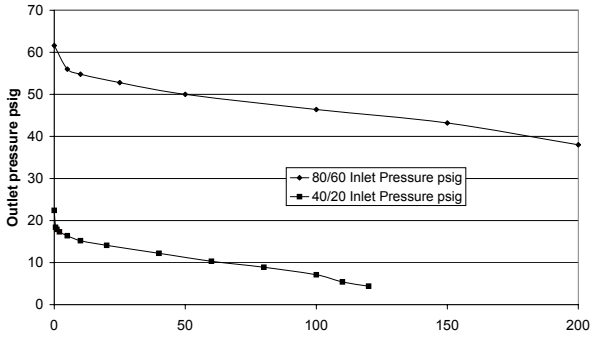
QRM



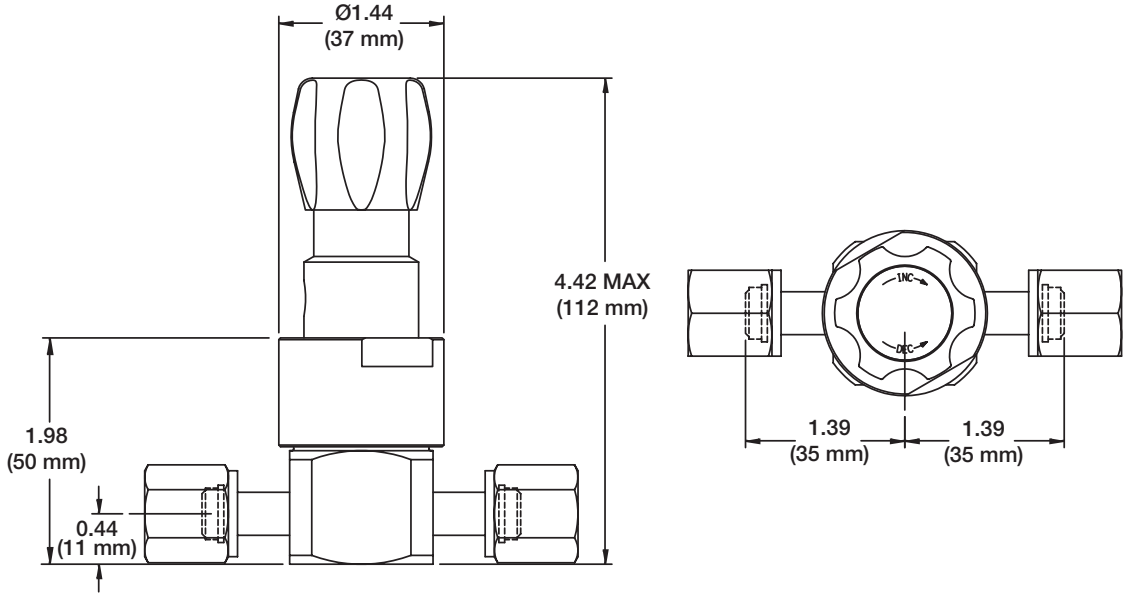


QRMHF





Dimensional Drawing



Safety Guide and Installation and Operating Instructions available at
www.parker.com/veriflo

QRM & QRMHF Series

Ordering Information

Build a QRM or QRMHF Series regulator by replacing the numbered symbols with an option from the corresponding tables below.

Contact factory for most up to date lead time information.
Blue = Configurations that have selections in blue may have an extended lead time and a minimum order quantity.

	1	2	3	4	5	6	7	8
Sample:	**QRMHF**	**30**	**S**	**2P**		**FS**	**MF**	
Finished Order:	**QRMHF30S2PFSMF**							

1 Basic Series
QRM
QRMHF

2 Pressure Setting
QRM
30 = -10 - 30 psig
60 = 1 - 60 psig
100 = 2 - 100 psig
250 = 3 - 250 psig

QRMHF
30 = 1 - 30 psig
60 = 1 - 60 psig
100 = 2 - 100 psig
150 = 3 - 150 psig

3 Body Material
S = 316L Stainless Steel

4 Porting
2P = 2 Ports *No X required for gauges, inlet & outlet ports only*
3P = 3 Ports *One X for gauge port*
See Regulator Porting Guide for additional options and port layouts

5 Outlet Gauge *Omit if 2 port*
V3 = -30 - 0 - 30 psig *- QRM only.*
03 = 0 - 30 psig
OL = 0 - 60 psig
01 = 0 - 100 psig
2 = 0 - 200 psig
4 = 0 - 400 psig
X = No Gauge
Additional ranges available upon request

6 Port Style
FS = 1/4" Face Seal
TS = 1/4" Tube Stub

7 Port Configuration
M = Male
F = Female
1/4" FS-M Gauge Ports are Standard
Any other Gauge Port Configuration may have an extended lead time.

8 Optional Features
This section can have multiple options
PA = MPa Max Inlet Pressure Unit Marking
EV = 5Ra Surface Finish

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Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Compression Member	VeriClean™ 316L Stainless Steel
Diaphragm	Hastelloy C-22® or equivalent
Poppet	
QRM	Inconel X-750® or equivalent
QRMHF	Hastelloy C-276® or equivalent
Poppet Spring	Inconel X-750®
Poppet Pin	Hastelloy C-22® or equivalent
Seat Retainer	VeriClean™ 316L Stainless Steel
Seat	PCTFE
Non-wetted	
Cap	Nickel Plated Brass
Adjusting Screw	316L Stainless Steel
Knob	ABS (Black)

Operating Conditions	
Maximum Inlet	
QRM	500 psig (35 barg)
QRMHF30	250 psig (17 barg)
QRMHF60 QRMHF100 QRMHF150	500 psig (35 barg)

For additional information on materials of construction, functional performance and operating conditions, please contact factory.

Hastelloy C-22® is a registered trademark of Haynes International, Inc.
VeriClean™ is a trademark of Parker Hannifin Corporation
Inconel® is a registered trademark of Special Metals Corporation

Operating Conditions *Continued*	
Outlet Options	
QRM	-10 psig - 30 psig (5 psia, 250 torr - 2 barg) 1 - 60 psig (0.07 - 4 barg) 2 - 100 psig (0.14 - 7 barg) 3 - 250 psig (0.21 - 17 barg)
QRMHF	1 - 30 psig (0.07 - 2 barg) 1 - 60 psig (0.07 - 4 barg) 2 - 100 psig (0.14 - 7 barg) 3 - 150 psig (0.21 - 10.5 barg)
Temperature	
Operating	-40°F to 150°F (-40°C to 66°C)
Storage	-40°F to 150°F (-40°C to 66°C)

Functional Performance	
Design	
Burst Pressure	1,500 psig (104 barg)
Proof Pressure	750 psig (52 barg)
Flow Capacity	
QRM	C_V 0.1
QRMHF	C_V 0.17
Leak Rate	Inboard Test Method
Internal	$< 4 \times 10^{-8}$ cc/sec He
External	$< 2 \times 10^{-10}$ cc/sec He
Surface Finish	
Standard	10 micro inch Ra
Optional	5 micro inch Ra
Internal Volume	4 cc (approximately)
Approx. Weight	1 lbs. (0.45 kgm)

Use mobile device to scan this QR Code.

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