

SMQRM & SMQRMHF Series

UHP Surface Mount Miniature Pressure Regulator
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 Surface Mount QRM and the Surface Mount QRM HF Series pressure regulator. The SMQRM and SMQRMHF are miniature high purity, threadless type, non-tied diaphragm regulators with a footprint designed to reduce system real estate.

The design of the SMQRM and SMQRMHF provide faster purge times and extend the seat life. Precise gas regulation and performance is achieved in a miniature regulator.



Contact Information:

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Product Features:

- Standard Hastelloy C-22® diaphragm
- Miniature footprint with low internal volume
- No threads exposed to the wetted area
- Critically Dampened to improve MFC Flow Stability
- Meets SEMI Modular Interface specifications
- Standard full internal electropolish



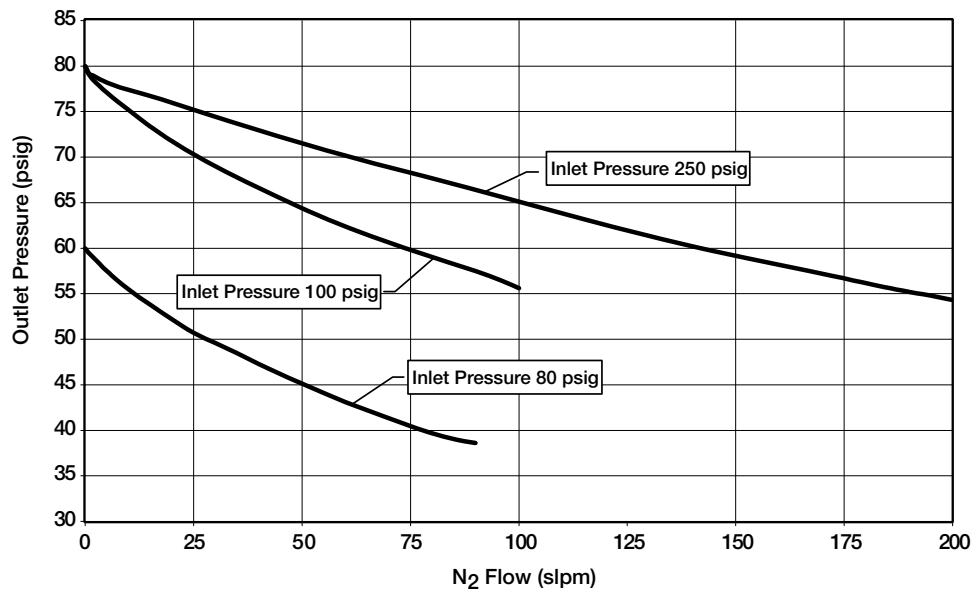
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SMQRM & SMQRMHF Series

Flow Curves

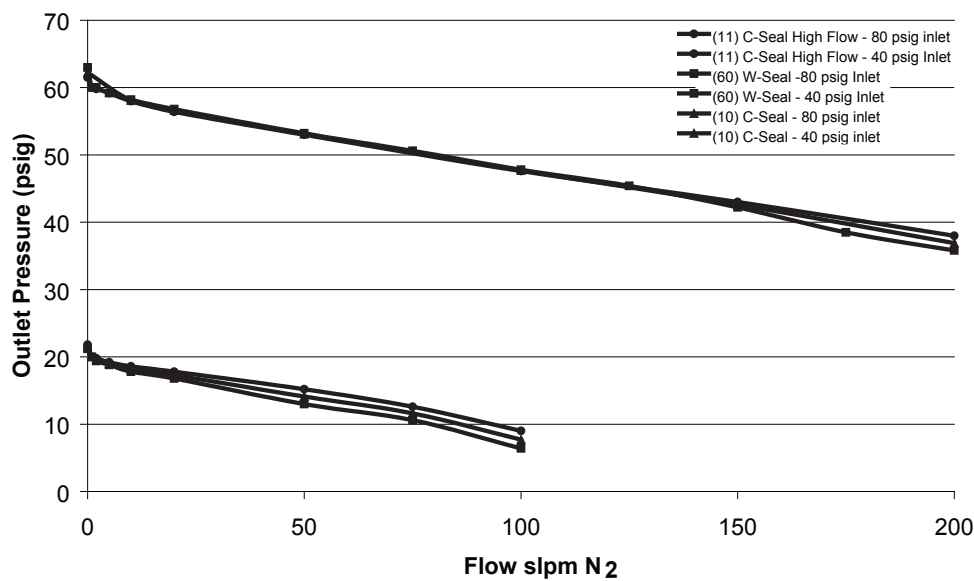
Additional flow curves available upon request

SMQRM



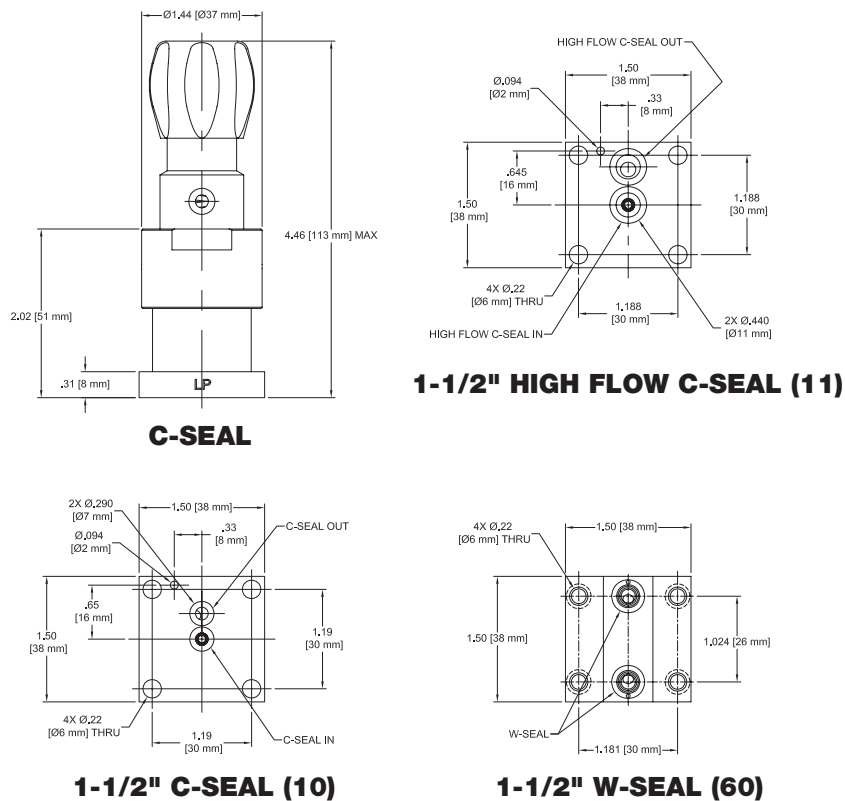
SMQRMHF

(11) C-Seal High Flow, (10) C-Seal and (60) W-Seal Flow Curve



SMQRM & SMQRMHF Series

Dimensional Drawing



Ordering Information

Build an SMQRM or SMQRMHF 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

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

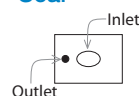
Sample: **SMQRM 30 S 10 PA**
Finished Order: **SMQRM30S10PA**

1 Basic Series
SMQRM
SMQRMHF

2 Pressure Range
SMQRM
30 = -10 - 30 psig
60 = 1 - 60 psig
100 = 2 - 100 psig
250 = 3 - 250 psig
SMQRMHF
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
10 =  = 2 Ports, C-Seal
11 =  = 2 Ports, High Flow C-Seal
60 =  = "W" Seal



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

SMQRM & SMQRMHF Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Compression Member	VeriClean™ 316L Stainless Steel
Diaphragm	Hastelloy C-22® or equivalent
Poppet	
SMQRM	Inconel X-750® or equivalent
SMQRMHF	Hastelloy C-276® or equivalent
Poppet Spring	Inconel X-750®
Poppet Pin	Hastelloy C-22® or equivalent
Seat	PCTFE
Seat Retainer	VeriClean™ 316L Stainless Steel
Non-wetted	
Cap	Nickel Plated Brass
Adjusting Screw	316L Stainless Steel
Knob	ABS (Black)
Operating Conditions	
Maximum Inlet	
SMQRM	500 psig (35 barg)
SMQRMHF30	250 psig (17 barg)
SMQRMHF60	500 psig (35 barg)
SMQRMHF100	
SMQRMHF150	

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

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Inconel® is a registered trademark of Special Metals Corporation
Hastelloy C-22®, and Hastelloy C-276® are registered trademarks of Haynes International, Inc.

Operating Conditions Continued	
Outlet Options	
SMQRM	-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)
SMQRMHF	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 (103 barg)
Proof Pressure	750 psig (52 barg)
Flow Capacity	
SMQRM	C _v 0.1
SMQRMHF	C _v 0.17*
Leak Rate	
Internal	Inboard Test Method
External	< 4 x 10 ⁻⁸ cc/sec He
External	< 2 x 10 ⁻¹⁰ cc/sec He
Surface Finish	
Standard	10 micro inch Ra
Optional	5 micro inch Ra
Internal Volume	
Approx. Weight	4.0 cc (approximately)
Approx. Weight	1 lbs. (0.45 kgm)

* SMQRMHF: For high flow C-Seal

OFFER OF SALE:

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