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, nontied 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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www.parker.com/veriflo Mobile App: m.parker.com/veriflo



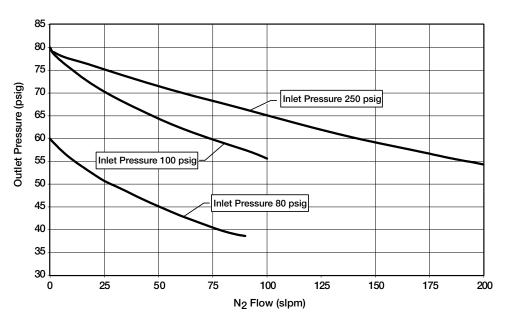
Product Features:

- 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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Flow Curves

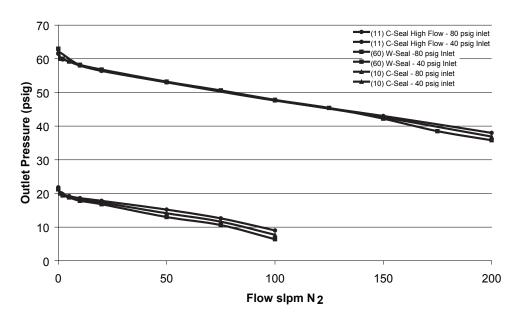
Additional flow curves available upon request



SMQRM

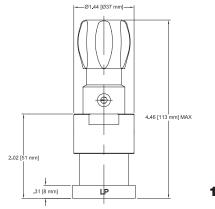
SMQRMHF

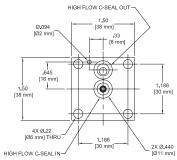
(11) C-Seal High Flow, (10) C-Seal and (60) W-Seal Flow Curve



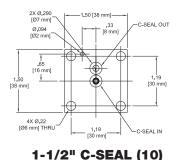
Safety Guide and Installation and Operating Instructions available at www.parker.com/veriflo

Dimensional Drawing

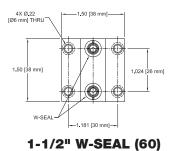




1-1/2" HIGH FLOW C-SEAL (11)

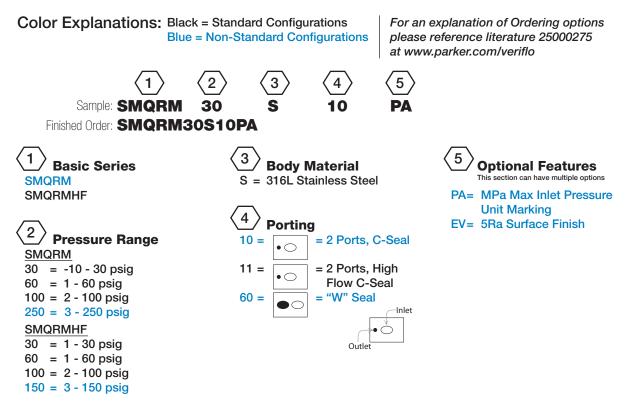


C-SEAL



Ordering Information

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



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	
Сар	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	
SMQRMHF100	500 psig (35 barg)
SMQRMHF150	

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

VeriClean™ is a trademark of Parker Hannifin 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 tor-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	Inboard Test Method
Internal	< 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	4.0 cc (approximately)
Approx. Weight	1 lbs. (0.45 kgm)

* SMQRMHF: For high flow C-Seal

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo

WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. THIS DOCUMENT IS FOR REFERENCE ONLY. PLEASE CONSULT FACTORY FOR LATEST PRODUCT DRAWINGS AND SPECIFICATIONS

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The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

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Proposition 65 Warning: This product contains chemicals known to the state of California to cause cancer or birth defects or other reproductive harm.

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