

SMSQ2Micro Series

UHP Surface Mount Regulator
1-1/8" & 1-1/2", Stainless Steel

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

Value Proposition:

The SMSQ2Micro and SMSQ2Micro130E modular surface mount regulators are part of the process proven SQ product line. The SMSQ2Micro provides excellent repeatability, stability, sensitivity and has extraordinary response to step function changes.



Contact Information:

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Product Features:

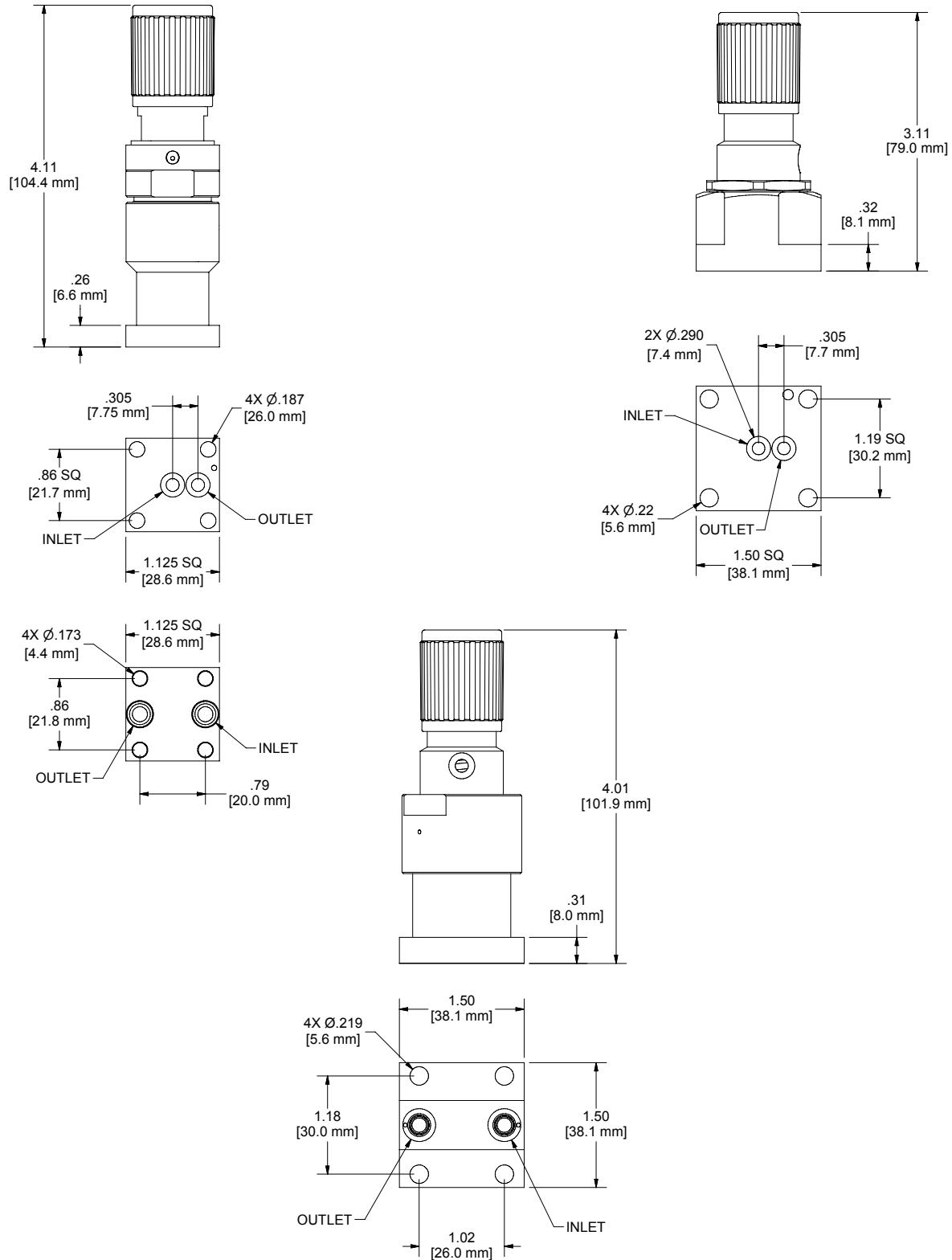
- Meets SEMI Modular Interface specifications
- Ease of component retrofit
- Standard Hastelloy C-22® Poppet and Diaphragm
- Small footprint allows for same spacing as Veriflo Quantum valves
- Standard full internal electropolish
- No springs or threads are exposed to the wetted area
- Extremely low particle counts
- Both a 0.06 and 0.15 C_v are available



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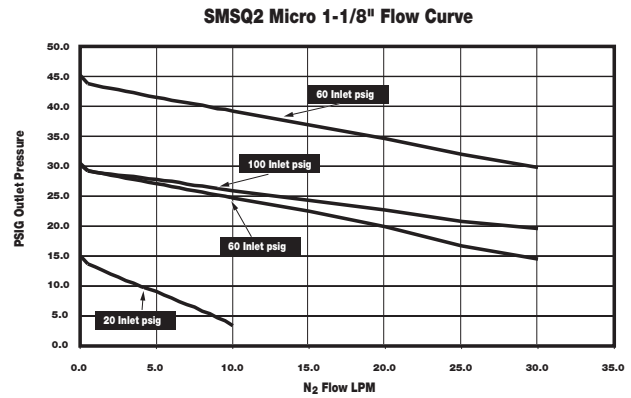
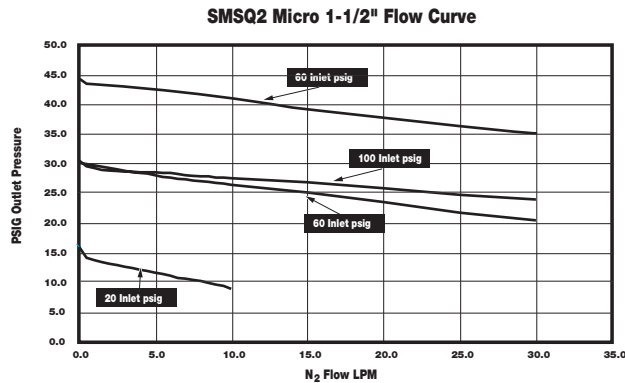
Dimensional Drawings



SMSQ2Micro Series

Flow Curves

Additional flow curves available upon request



Ordering Information

Build a SMSQ2Micro 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.

Sample: **SMSQ2 MICRO 30 10**

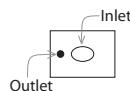
Finished Order: **SMSQ2MICRO3010**

1 Basic Series
MICRO
MICRO130E

2 Range
30 = 30 psig
60 = 60 psig

3 Porting
10 = = 2 Ports, C-Seal
11 = = 2 Ports, High Flow C-Seal
60 = = "W" Seal

4 Base Size
blank = 1-1/2" interface
2 = 1-1/8" interface



SMSQ2Micro Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Compression Member	VeriClean™ 316L Stainless Steel
Diaphragm	Hastelloy C-22®
Poppet	Hastelloy C-22®
Seat	PCTFE
Non-wetted	
Cap	Nickel Plated Brass
Nut	Stainless Steel
Knob	
SMSQ2Micro	ABS (Blue)
SMSQ2Micro130E	ABS (Black)
Operating Conditions	
Maximum Inlet	250 psig (17.2 barg)
Outlet	-10 psig - 60 psig (260 torr - 4.1 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

Functional Performance	
Design	
Burst Pressure	750 psig (51.7 barg)
Proof Pressure	375 psig (25.9 barg)
Design Pressure ⁽¹⁾	
Inlet	276 psig (19.0 barg)
Outlet	86 psig (5.9 barg)
Flow Capacity	
SMSQ2Micro	C _v 0.06
SMSQ2Micro130E	C _v 0.15
Leak Rate	
Internal	Inboard Test Method
External	< 5 x 10 ⁻⁸ cc/sec He
Internal Volume	< 2 x 10 ⁻¹⁰ cc/sec He
Approx. Weight	0.08 cc
Surface Finish	0.9 lbs. (0.42 kgm)
	5 micro inch Ra

1. Design Pressure per KOSHA Guide D-5 - 2012, Para. 6.2.

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

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