

Surface Mount SQ2Micro Series

1-1/8" & 1-1/2" Surface Mount Regulator

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

Customer 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:

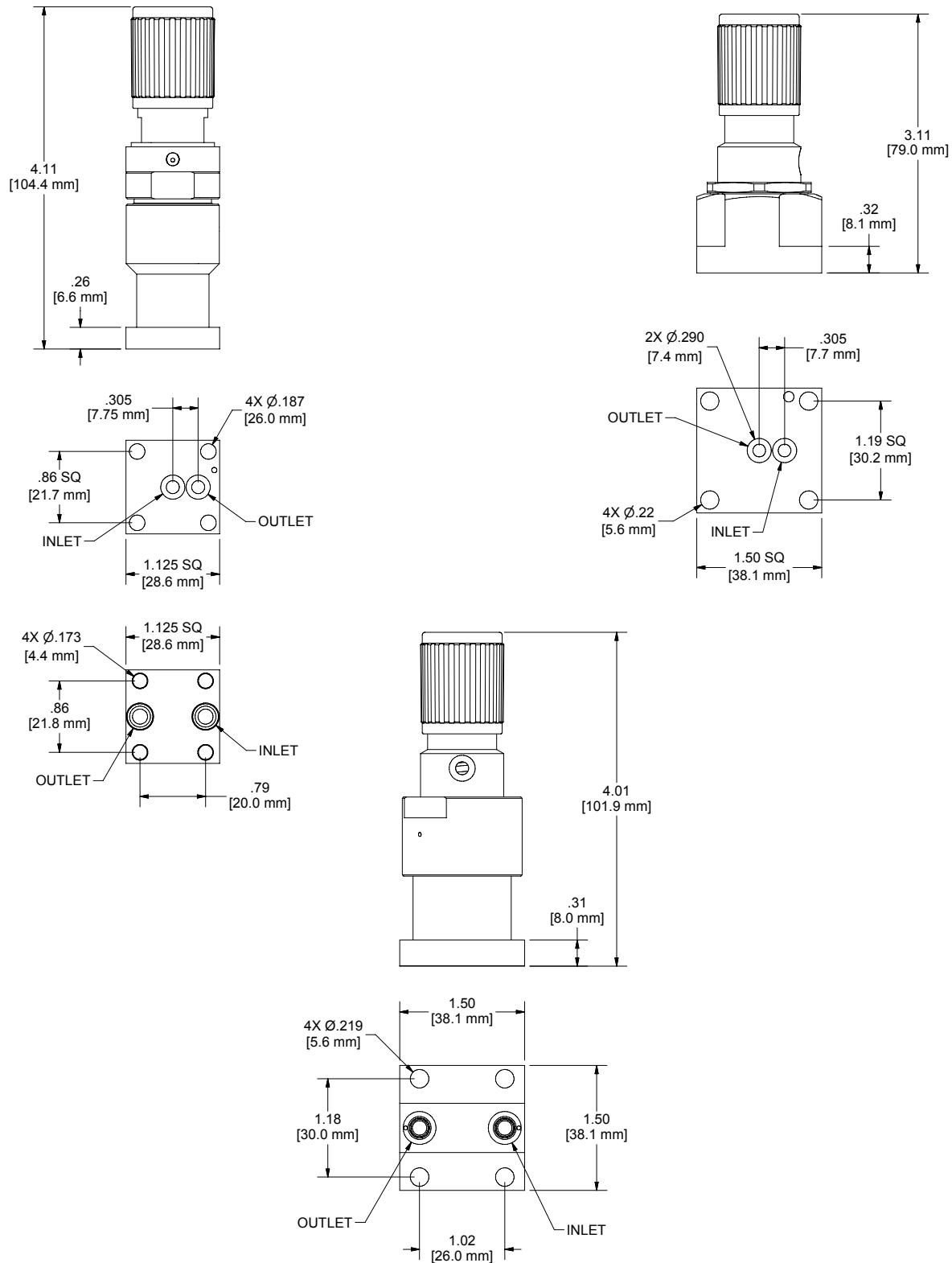
- Meets SEMI Modular Interface specifications.
- Ease of component retrofit.
- Standard Hastelloy C-22® Poppet and Diaphragm.
- Small footprint allows for same spacing as Veriflo Quantum valves
- Standard full internal electropolish.
- No springs or threads are exposed to the wetted area.
- Extremely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



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SMSQ2Micro

Dimensional Drawing

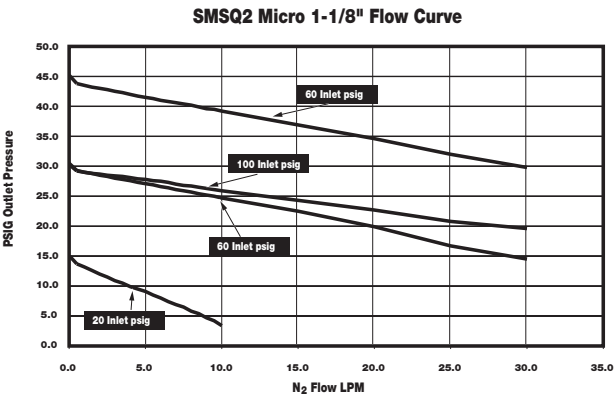
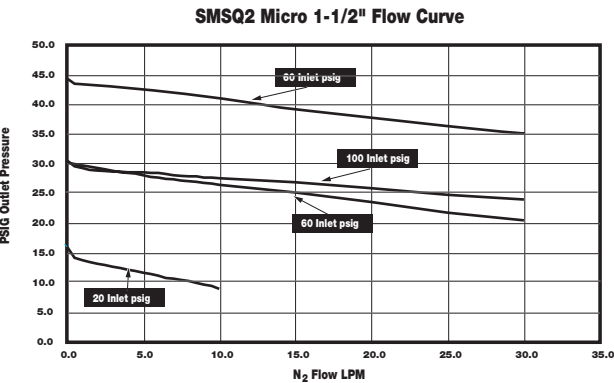


Safety Guide and Installation and Operating Instructions available at
www.parker.com/veriflo

SMSQ2Micro

Flow Curves

Additional flow curves available upon request



Ordering Information






Build an SMSQ2Micro regulator by replacing the numbered symbols with an option from the corresponding tables below.

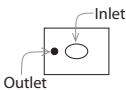
Sample: **SMSQ2** **MICRO** **30** **10** **TH**

Finished Order: **SMSQ2MICRO3010TH**

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
20 =  = 3 Ports, C-Seal
30 =  = 3 Ports, High Flow C-Seal
60 =  = "W" Seal



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

5 Optional Features
This section can have multiple options
TH = Hastelloy C-22® Trim
Available on Stainless Steel body only. Includes Hastelloy C-22® diaphragm, compression member and poppet.
VESP = Vespel® Seat *Recommended for Nitrous Oxide (N₂O) Service*

SMSQ2Micro

Specifications

Materials of Construction	
Wetted	
Body Options	VeriClean™ 316L Stainless Steel (std) or Hastelloy C-22®
Compression Member Options	VeriClean™ 316L Stainless Steel (std) or Hastelloy C-22®
Diaphragm	Hastelloy C-22®
Poppet	Hastelloy C-22®
Seat Options	PCTFE (std) or Vespel
Non-wetted	
Cap	Nickel Plated Brass
Nut	Stainless Steel
Knob	ABS (Blue) - <i>SMSQ2Micro Only</i>
	ABS (Black) - <i>SMSQ2Micro130E Only</i>
Operating Conditions	
Maximum Inlet	250 psig (17 barg)
Outlet	-10 psig to 60 psig (260 torr to 4.1 barg)
Temperature	-40°F to 150°F (-40°C to 66°C)

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

Functional Performance	
Design	
Burst Pressure	750 psig (52 barg)
Proof Pressure	375 psig (26 barg)
Flow Capacity	C _v 0.06 - <i>SMSQ2Micro Only</i>
	C _v 0.15 - <i>SMSQ2Micro130E Only</i>
Leak Rate	
Internal	Inboard Test Method
External	5 x 10 ⁻⁸ cc/sec He
Internal Volume	.08 cc - 1-1/8"
	.08 cc - 1-1/2"
Approx. Weight	
Standard Ra	0.9lbs. (0.42 kgm)
	5 micro inch

Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C.
Hastelloy C-22® is a registered trademark of Haynes International, Inc.
VeriClean™ is a trademark of Parker Hannifin Corporation

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