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TECHNOLOGY GROUP

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SQMicro

Miniature Pressure Regulator

VERIFLO
ISO 9001 Certified

Veriflo's SQMicro, which is part of the process proven SQ product line, is a revolutionary, miniature, high performance, point-of-use regulator designed specifically to reduce semiconductor system real estate.

Space savings are apparent both in regulator face-seal to face-seal dimensions and body width, which allows closer spacing of components and process lines. In a state-of-the-art gas box, where the SQMicro is intermixed with Veriflo Quantum 1/4 inch valves and mass flow controllers, maximum gas box density is permitted without sacrificing performance or field serviceability.

The SQMicro provides excellent repeatabilty, stability, and sensitivity. It shows extraordinary response to step function changes. The SQMicro permits process gas regulation within the tool gas box without increasing the size of the system. The outstanding low particle counts of the other SQ's are duplicated in the SQMicro.



features

- Standard Hastelloy C-22® Poppet and Diaphragm.
- Miniature footprint, internal volume, and surface area.
- Hysteresis held to .25 psig.
- Similar to the outstanding performance of the SQ60, despite the size reduction.
- Dimensions are interchangable with Veriflo Quantum valves.
- No wetted spring.
- No threads exposed to the wetted area.
- Standard full internal electropolish.
- SQ Micro High Flow is also available.

materials of construction

Wetted

Body . . . . . "VeriClean", Veriflo's high purity type 316L VAR Stainless Steel, Hastelloy C-22®
Seat . . . . . PCTFE (formerly Kel-F81®) optional Vespel®
Diaphragm . . . . . Hastelloy C-22®
Poppet . . . . . Hastelloy C-22®
Compression Member . . . . "VeriClean", Veriflo's high purity type 316L VAR Stainless Steel, Hastelloy C-22®

Non-wetted

Cap . . . . . Nickel Plated Brass
Adjusting screw . . . . . 416 Stainless Steel
Knob (blue) . . . . . ABS Plastic

operating conditions

Maximun inlet pressure . . . . . 150 psig (10 barg)
Outlet pressure . . . . . 10 in Hg to 30 psig (5 psia, 250 torr to 2 barg)
Temperature . . . . . -40°F to 150°F (-40°C to 66°C)

surface finishes

Standard Ra . . . . . 5 micro inch (.13 micro meter) or less

functional performance

Design proof pressure . . . . . 225 psig (16 barg)
Design burst pressure: . . . . . 450 psig (31 barg)
Flow capacity . . . . . C_V 0.06 (ANSI/ISA S 75.02 1988 using water)
Design Leak Rate:
Across Seat . . . . . 5×10^{-8} cc/sec He
Inboard. . . . . 2×10^{-10} cc/sec He
Outboard. . . . . 2×10^{-9} cc/sec He

internal volume

4.21 cc

standard connections

Any combination of FS male and/ or female fittings.
1/4" Gland to gland length . . . . . 2.78 ± .02 in. (70.6 ± .05 mm)
1/4" tube stubs inlet and outlet available
End to end length . . . . . 2.25 ± .03 (57.1 ± .05 mm)

approximate weight

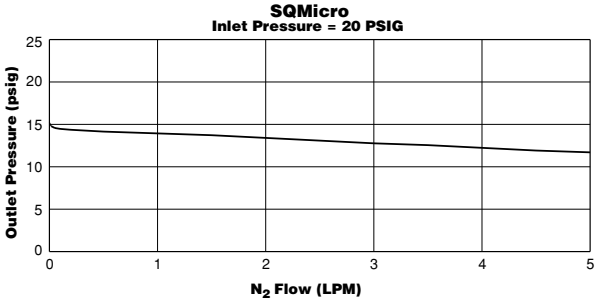
0.9 lbs (0.42 kgm)

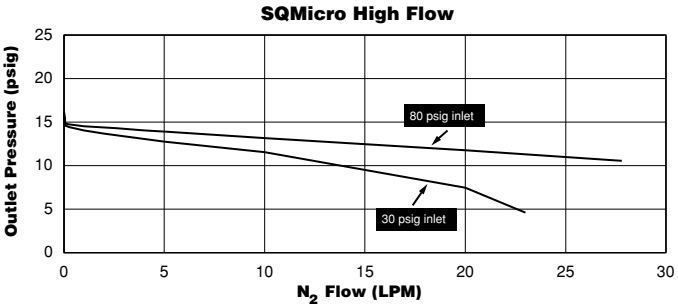
Parker Instrumentation

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SQMicro

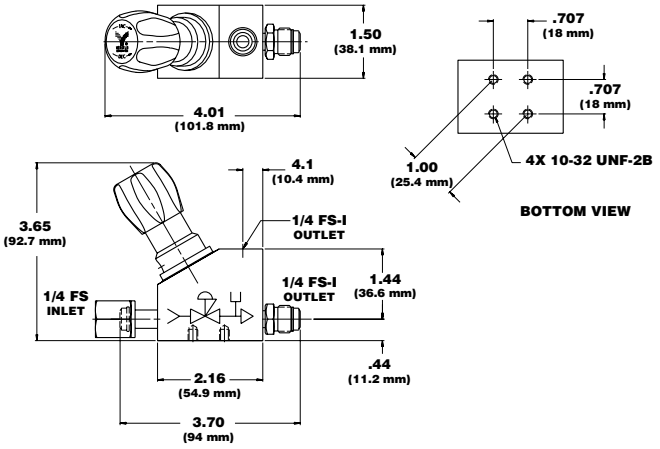
Flow Curves



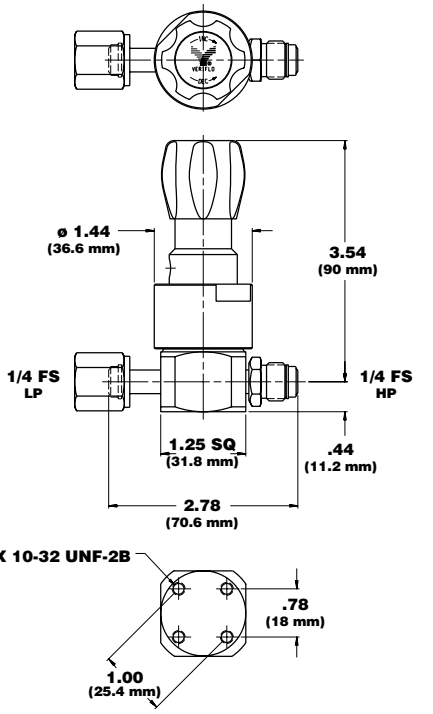


Dimensional Drawings

SQ Micro "A"



SQ Micro



Ordering Information

SQMICRO30 2P FSMF TH

BASIC SERIES
SQMICRO30 = 0-30 psig
SQMICRO60 = 0-60 psig
SQMICROHF30 = 0-30 psig
SQMICROHF60 = 0-60 psig

MATERIAL
= 316L VAR Stainless Steel (standard)
H = Hastelloy C-22®

PORTING
2P = 2 Ports
3P = 3 Ports

*** Recommended for ($N_2$0) Service**
**** Note: (I) = Internal Face Seal**
† Recommended for Carbon Monoxide (CO) or Nickel Carbonyl Ni(CO_4) Service

OPTIONAL FEATURES
A = "A" Style Body
SS = Stainless Steel Internals †
TH = Hastelloy C-22® Trim (Compression Member)
VESP = Vespel® Seat*

CONNECTIONS
FSMM = 1/4" Face Seal Male In and Out
FSFF = 1/4" Face Seal Female In and Out
FSFM = 1/4" Face Seal Female In Male Out
FSMF = 1/4" Face Seal Male In Female Out
TS = 1/4" Tube Stub
FOR "A" STYLE ONLY:
FSMIM = 1/4" Face Seal Male In and Out**
FSFIF = 1/4" Face Seal Female In and Out**
FSFIM = 1/4" Face Seal Female In Male Out**
FSMIF = 1/4" Face Seal Male In Female Out**

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Vespel® is a registered trademark of DuPont.
Kel-F81® is a registered trademark of 3M Company.

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Parker Instrumentation

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