

SQ2MICRO Series

UHP Tied Diaphragm, Miniature Pressure Regulator
Welded, Stainless Steel

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

Value Proposition:

The SQ2Micro and SQ2Micro130E are miniature, high performance, point-of-use regulators with a small foot-print. The SQ2Micro provides excellent repeatability, stability, sensitivity and has extraordinary response to step function changes. The space savings allows a closer spacing of components and process lines while providing excellent regulation control.



Contact Information:

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Product Features:

- Standard Hastelloy C-22® Poppet and Diaphragm
- Standard full internal electropolish
- Miniature footprint, internal volume, and surface area
- Extremely low particle counts
- Small footprint allows for same spacing as Quantum Veriflo valves
- Both a 0.06 and 0.15 Cv are available
- No springs or threads are exposed to the wetted area

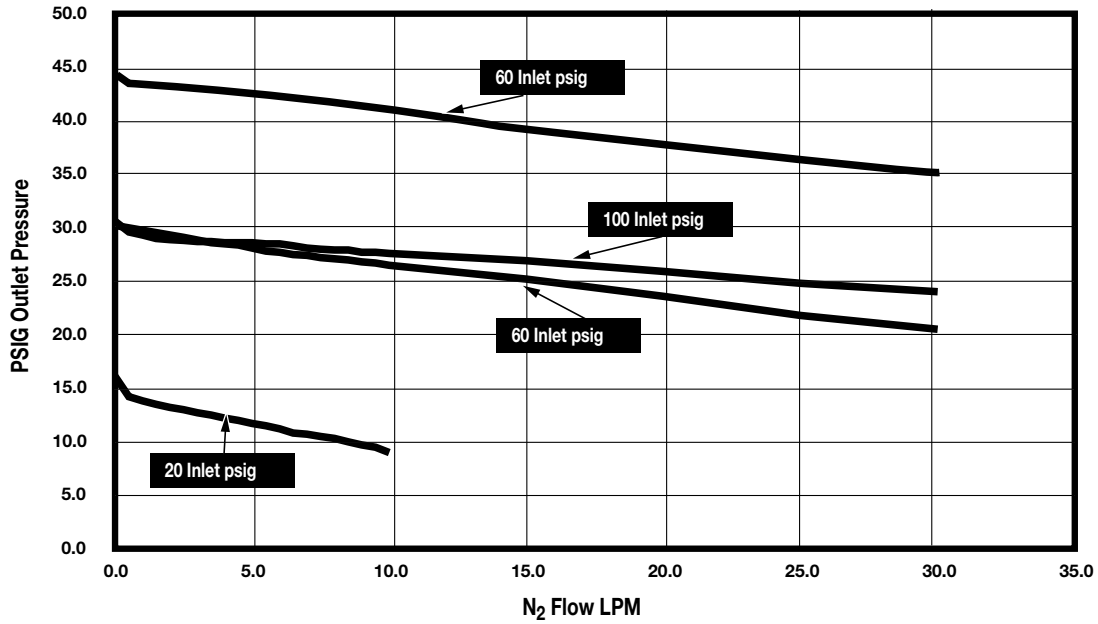


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SQ2MICRO Series

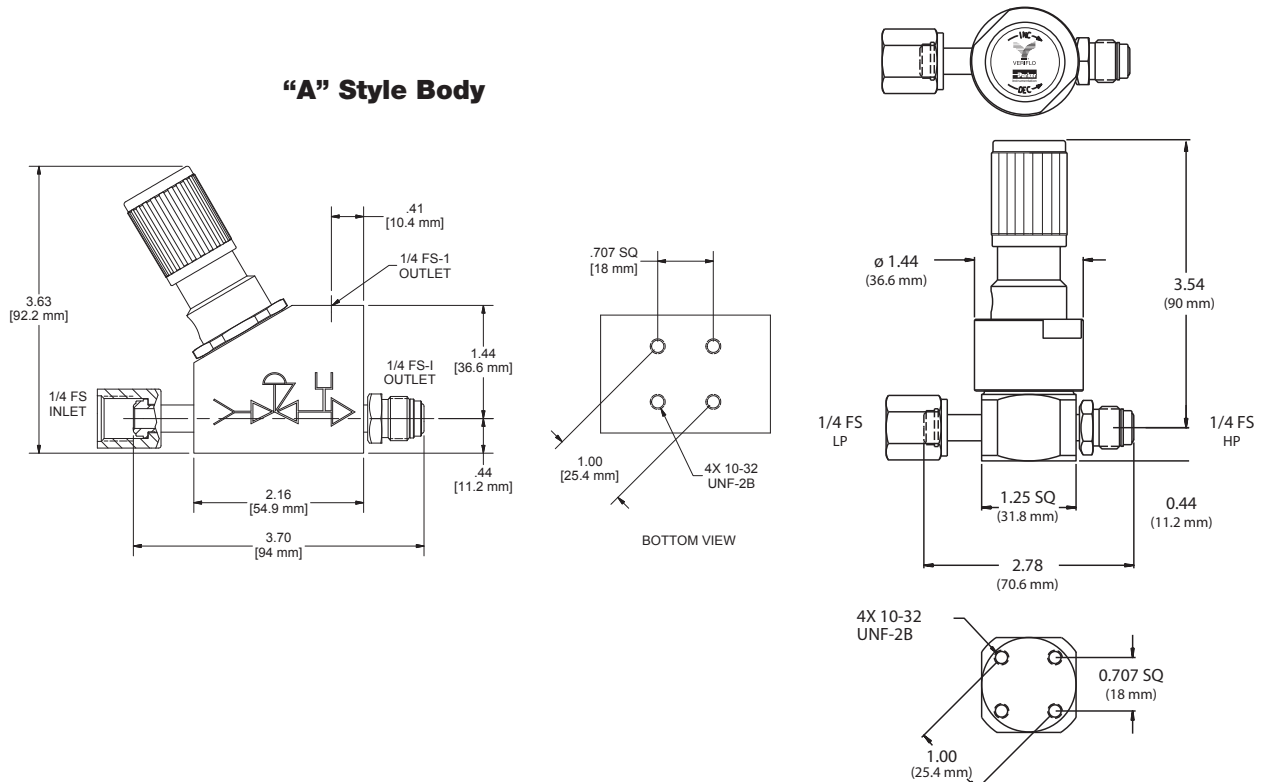
Flow Curve

Additional flow curves available upon request



Dimensional Drawing

"A" Style Body



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

SQ2MICRO Series

Ordering Information

Build a SQ2MICRO Series 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.

Samples: **SQ2** **MICRO** **30** **2P** **FS** **MF** **TH**
SQ2MICRO130E **30** **3P** **FS** **MIM** **A**

Finished Orders: **SQ2MICRO302PFSMFTH**
SQ2MICRO130E303PFSMIMA

1 Basic Series
MICRO
MICRO130E

2 Range
30 = 30 psig
60 = 60 psig

3 Body Material
= 316L Stainless Steel

4 Porting
2P = 2 Ports
3P = 3 Ports
See Regulator Porting Guide for additional options and port layouts

5 Port Style
FS = 1/4" Face Seal
TS = 1/4" Tube Stub *Not available with "A" Style body*

6 Connections
M = Male
F = Female
I = **Internal Face Seal** *Available with "A" style body only*

7 Optional Features
This section can have multiple options

SS = **Stainless Steel Internals**
Includes 316L Stainless Steel diaphragm, compression member and poppet. Recommended for Carbon Monoxide CO or Nickel Carbonyl Ni(CO)₄ Service

A = **"A" Style Body** *FS Port Style Only*

TH = **Hastelloy C-22® Trim**
Includes Hastelloy C-22® diaphragm, compression member and poppet

VESP = **Vespel® Seat** *Recommended for Nitrous Oxide N₂O Service*

SQ2MICRO Series

Specifications

Materials of Construction	
Wetted	
Body	VeriClean™ 316L Stainless Steel
Compression Member Options	VeriClean™ 316L Stainless Steel (std) or Hastelloy C-22®
Diaphragm Options	Hastelloy C-22® (std) or 316L Stainless Steel
Poppet Options	Hastelloy C-22® (std) or 316L Stainless Steel
Seat Options	PCTFE (std) or Vespel®
Non-wetted	
Cap	Nickel Plated Brass
Nut	Stainless Steel
Knob	
SQ2Micro	ABS (Blue)
SQ2Micro130E	ABS (Black)
Operating Conditions	
Maximum Inlet	250 psig (17 barg)
Outlet	-10 - 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 (52 barg)
Proof Pressure	375 psig (26 barg)
Design Pressure ⁽¹⁾	
Inlet	276 psig (19.0 barg)
Outlet	86 psig (5.9 barg)
Flow Capacity	
SQ2Micro	C _v 0.06
SQ2Micro130E	C _v 0.15
Leak Rate	
Internal	Inboard Test Method
External	< 5 x 10 ⁻⁸ scc/sec He
	< 2 x 10 ⁻¹⁰ scc/sec He
Internal Volume	
SQ2Micro	2.56 cc
SQ2Micro130E	4.21 cc
Approx. Weight	0.9 lbs. (0.42 kgm)
Surface Finish	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.

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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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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