

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.



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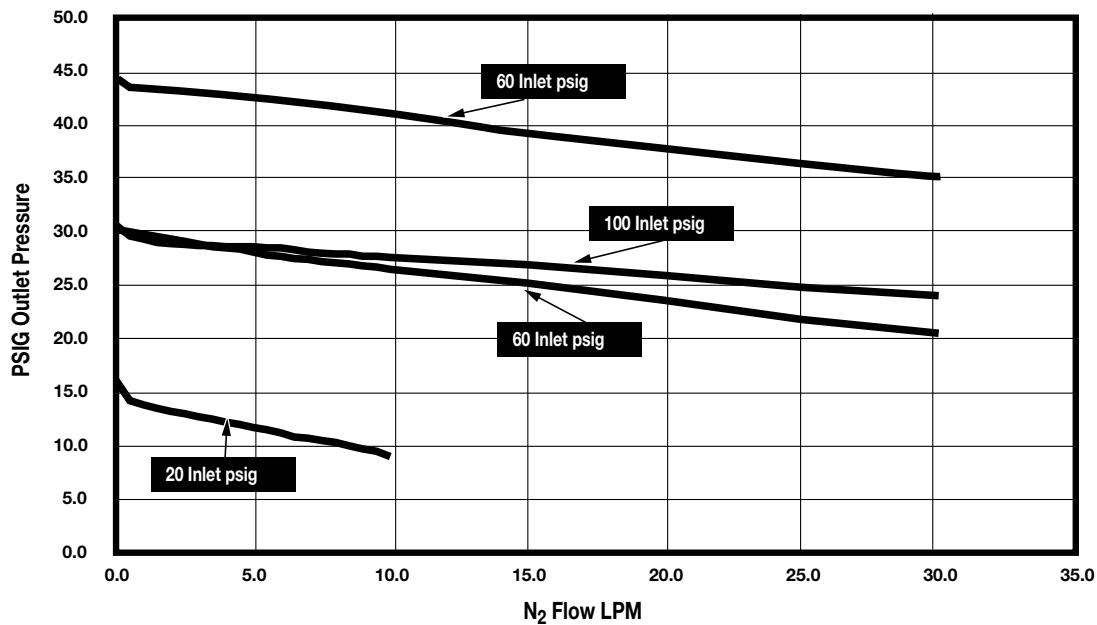
Product Features:

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

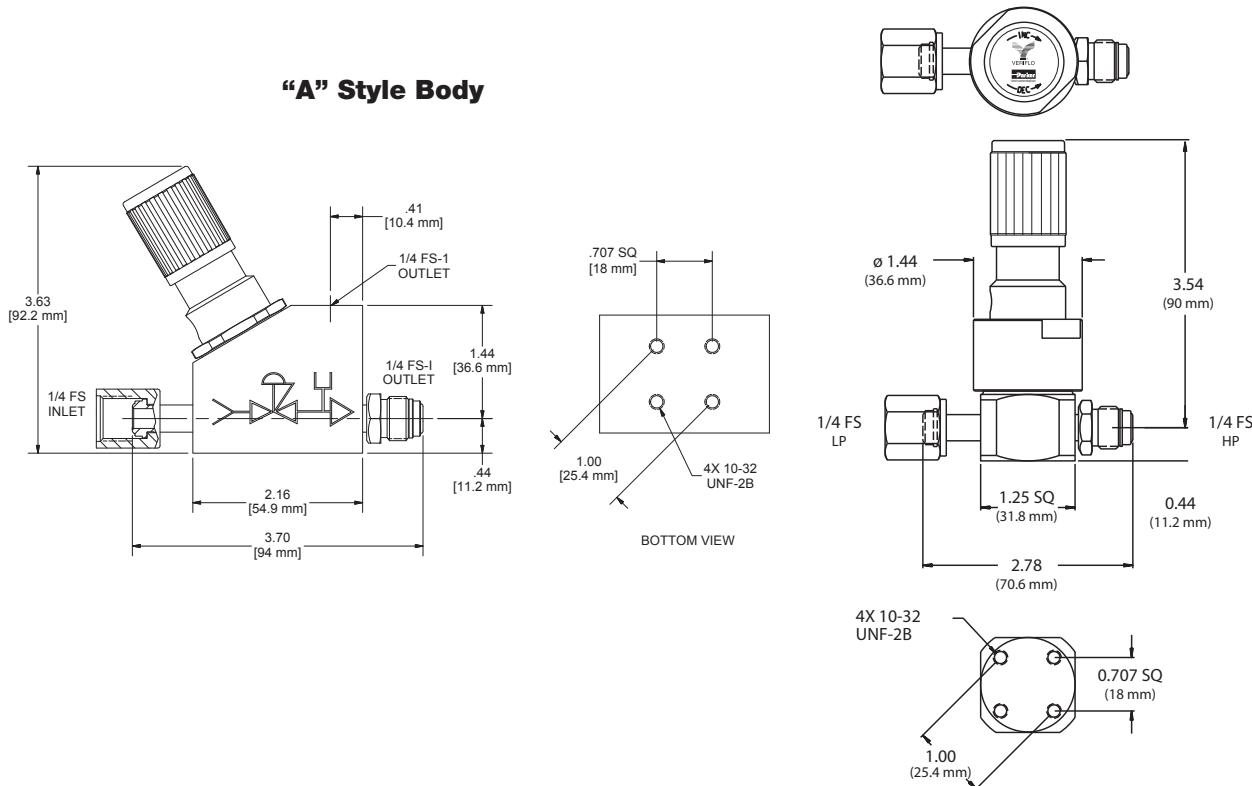
SQ2MICRO Series

Flow Curve

Additional flow curves available upon request



Dimensional Drawing



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**
SQ2MICRO130E 30



2P
3P

2P
3P

FS
FS

MF
MIM

TH
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)

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

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	Inboard Test Method
Internal	$< 5 \times 10^{-8}$ scc/sec He
External	$< 2 \times 10^{-10}$ 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.

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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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