FR1300 Series

Single Stage Pressure Reducing Regulator Ultra High Purity • High Flow • Stainless Steel

Precise Control, High Flow Performance

The FR1300 Series ultra high purity, pressure reducing regulator offers high-flow capability with an inlet pressure up to 600 psig and is an excellent choice for point of use bulk and specialty gas applications.



Contact Information:

Parker Hannifin Corporation Veriflo Division 250 Canal Blvd Richmond, California 94804

phone 510 235 9590 vfo.quotes@support.parker.com vfo.support@support.parker.com

www.parker.com/veriflo Mobile App: m.parker.com/veriflo

Product Features:

- 316L stainless steel body
- Manufactured for ultra high purity semiconductor gas applications
- Metal-to-metal diaphragm seal
- 10 µin. Ra surface finish

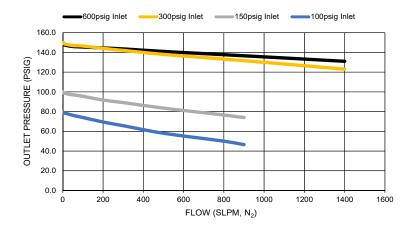
- Passivated & Electropolished
- Hastelloy C-22® diaphragm
- Flows up to 1200 slpm (42 scfm)

-Parker Veriflo

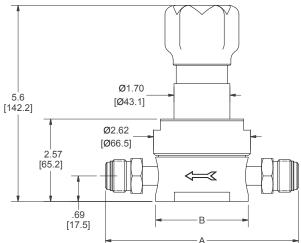
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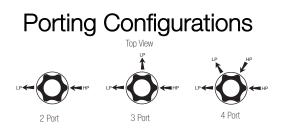


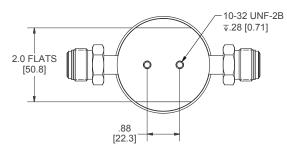
FR1300 Series



Dimensional Drawings







All dimensions in inches. Metric dimensions are for reference only.

DIMENSION TABLE		
Connection Type	End to End Dimension (A)	Body Diameter (B)
1/4" Face Seal (male & female)	4.30 ± .02 in. [109 ± .5 mm]	Ø2.50 in. [63.5 mm]
3/8" Face Seal	5.22 ± .02 in. [133 ± .5 mm]	Ø2.50 in. [63.5 mm]
3/8" Tube Stub	4.00 ± .02 in. [102 ± .5 mm]	Ø2.50 in. [63.5 mm]
1/2" Face Seal	5.22 ± .02 in. [133 ± .5 mm]	Ø2.50 in. [63.5 mm]
1/2" Tube Stub	4.34 ± .02 in. [110 ± .5 mm]	Ø2.50 in. [63.5 mm]

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

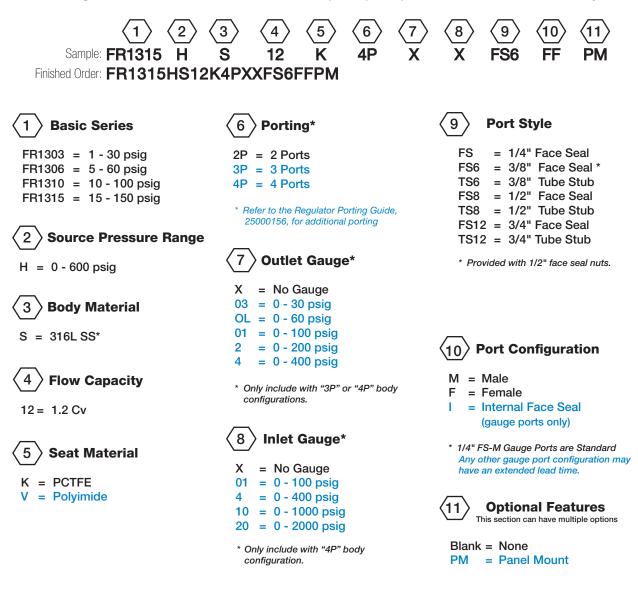
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FR1300 Series

Ordering Information

Build an FR1300 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 will require a price quote and lead time from the factory.



FR1300 Series Specifications

Wetted Materials of Construction

Body	316L SS	
Diaphragm	Ni-Cr-Mo alloy (Hastelloy® or equivalent)	
Poppet	316L SS	
Poppet Spring	316L SS	
Seat Retainer	316L SS	
Seat	PCTFE (std), Polyimide	
Finish	Passivated & Electropolished	

For additional information on materials of construction, functional performance and operating conditions, please refer to Veriflo report RI.EN.RP021.

All specifications subject to change without notice.

Hastelloy® is a registered trademark of Haynes International, Inc.

Functional Performance		
Flow Capacity (Cv)	1.2	
Internal Leakage (seat)	Bubble Tight	
External Leakage (Inboard)	$\leq 2 \times 10^{-10} \text{ scc/sec He}$	
Supply Pressure Effect	5.9 psig / 100 psig	
Internal Volume		
1/4" Face Seal	1.02 in ³ (16.7 cm ³) ¹	
1/2" Face Seal	1.41 in ³ (23.1 cm ³) ¹	
3/4" Face Seal	2.42 in ³ (39.7 cm ³) ¹	
Proof Pressure	900 psig	
Burst Pressure	1,800 psig	
Operating Conditions		
Maximum Inlet Pressure	600 psig ²	
Temperature	-40°F to 150°F (-40°C to 65°C)	
	Surface (std)	
Mounting	Panel (1.50 in. [38.1 mm] hole required)	

1. Internal volume includes end connections.

 Pressure rating based on nominal temperature conditions. Refer to Veriflo report RI.EN.RP021 for specific information regarding regulator performance at temperature.

OFFER OF SALE:

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/veriflo

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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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