Single Stage, Pressure Reducing Regulator

Consistent, Long Life Performance

The FRN1000 Series pressure reducing regulator provides precise control of process gas resulting in a stable flow and pressure supply to downstream systems making it an excellent choice for general point of use semiconductor manufacturing gas applications.

The standard Hastelloy C-22[®] diaphragm and integrated filtration promotes long life performance while the metal-to-metal diaphragm seal assures high leak integrity.



Contact Information:

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



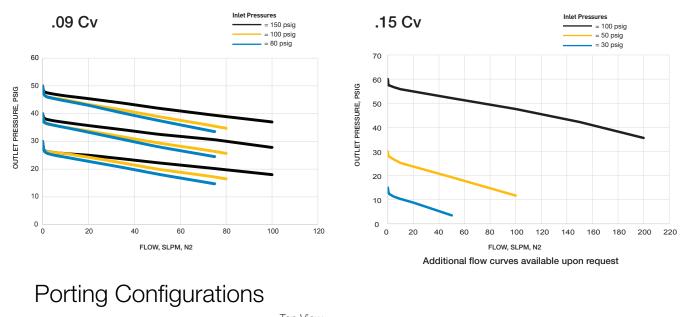
Product Features:

- 316L stainless steel body
- Metal-to-metal diaphragm seal standard
- High purity cleaned
- Inlet pressures up to 3500 psig

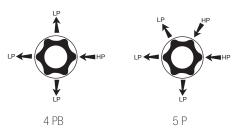
- Passivated
- Hastelloy[®] diaphragm standard
- Flows up to 200 slpm
- Integrated filtration



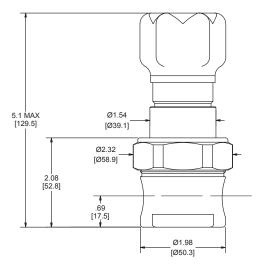
Flow Curves



Тор View 2 Р 3 Р 4 Р



Dimensional Drawings



-10-32 UNF-2B -1.4 FLATS [34.9] -88 -[22.3]

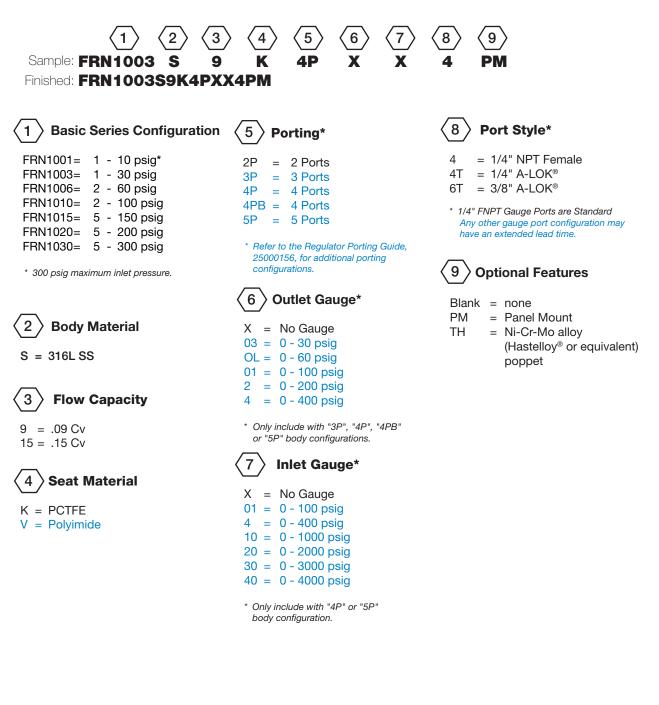
All dimensions in inches. Metric dimensions are for reference only.

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

Ordering Information

Build an FRN1000 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.



Specifications

vverred	Materials of	f Construction
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Body	316L SS
Diaphragm	Ni-Cr-Mo alloy (Hastelloy® or equivalent)
Poppet	316L SS (std), Ni-Cr-Mo alloy (Hastelloy® or equivalent)
Poppet Spring	316 SS
Seat Retainer	316L SS
Internal Filter Screen	Ni-Cr-Mo Alloy (Hastelloy® or equivalent) 74 µm
Filter Screen*	316L SS, 74 µm
Seat	PCTFE (std), Polyimide
Finish	Passivated

* Filter screen located within inlet port.

For additional information on materials of construction, functional performance and operating conditions refer to Veriflo report RI.EN.RP017.

All specifications subject to change without notice.

A-LOK® is a registered trademark of Parker Hannifin Corporation Hastelloy® is a registered trademark of Haynes International, Inc.

Functional Performance		
Flow Capacity (Cv)	.09 (std) .15	
Internal Leakage (seat)	Bubble Tight	
External Leakage	Bubble Tight	
Supply Pressure Effect		
.09 Cv .15 Cv	0.6 psig/100 psig 1.5 psig/100 psig	
Proof Pressure	5250 psig	
Burst Pressure	10,500 psig	
Operating Conditions		
Maximum Inlet Pressure	300 psig ² or 3500 psig ¹	
Temperature	-40°F to 150°F ¹ (-40°C to 65°C)	
	Surface (std)	
Mounting	Panel (1.75 in. [44.4mm] hole required)	
1. Deservices we welfang her see a service her services		

 Pressure rating based on nominal temperature conditions. Refer to Veriflo Report RI.EN.RP017 for specific information regarding regulator performance at temperature.

2. Applies to the "FRN1001" model configuration, 10 psig outlet pressure range.

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

WARNING USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE. THIS DOCUMENT IS FOR REFERENCE ONLY. PLEASE CONSULT FACTORY FOR LATEST PRODUCT DRAWINGS AND SPECIFICATIONS

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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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LitPN: 25000332

Rev: A Date of Issue 09/2022



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