

# PTFE Gas Filter for High Withstanding Pressure



## High Efficiency Filtration

- Stable efficiency filtration with two-layer filtration film made of PTFE causing little stretches by aging or vibration. 0.003 $\mu$ m particle capture test conducted by nucleus particle counter for all products.

## Low Pressure Loss

- High flow rate and low pressure loss by PTFE's two-layer structure and high hole rate.

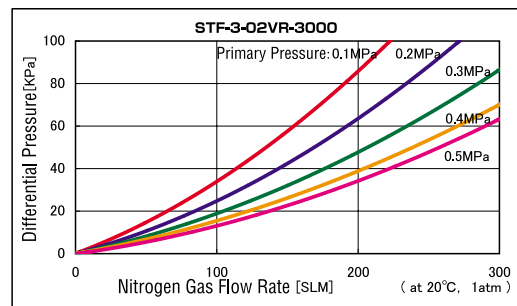
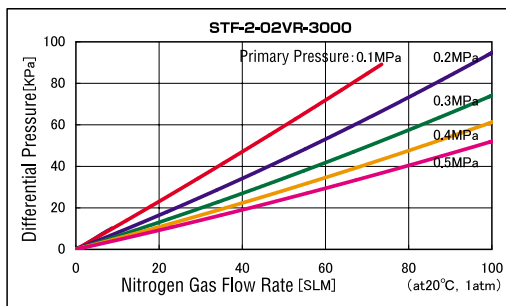
## High Corrosion Resistance

- Fluorine resin used for element film, element support, O-ring etc., while SUS316L used for housing and every gas contacting part polished to R max 0.5 $\mu$ m or less and passivation process.

## Specification

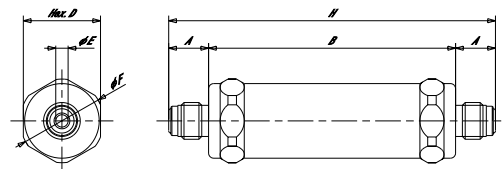
Filtration Accuracy	0.003 $\mu$ m
Recommended Flow Rate	STF-2···40L/min, STF-3···150L/min
Housing Design Pressure	20.68MPa (3,000PSIG, 210kgf/cm <sup>2</sup> ) at 20°C
Max. Operating Pressure	0.98MPa (142PSIG) at 20°C    0.94MPa (136PSIG) at 120°C
Back Pressure Resistance	0.07MPa (10.15PSIG) at 20°C
Max. Operating Temperature	120°C
External Leakage	2 $\times$ 10 <sup>-11</sup> Pa·m <sup>3</sup> /sec or less
Materials	Housing: SUS316L    Roughness: R <sub>max</sub> 0.5 $\mu$ m or less Element/O-ring: PTFE    Element support: PFA
Joint	1/4", 3/8", 1/2"    VCR®, Swagelok®, and others

## Flow Rate Characteristics



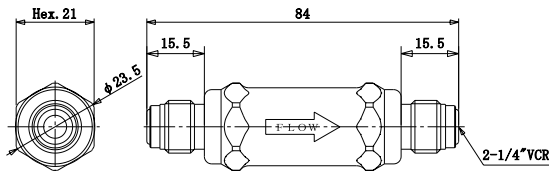
## Dimensions

Model	A(mm)	B(mm)	D(mm)	E(inch)	F(mm)	H(mm)
STF-2-02VR-3000	15.5	53.0	Hex.21	1/4	$\phi$ 23.5	84.0
STF-2-02SW-3000	10.0	53.0	Hex.21	1/4	$\phi$ 23.5	73.0
STF-3-02VR-3000	15.5	96.0	Hex.30	1/4	$\phi$ 32.5	127.0
STF-3-02SW-3000	10.0	96.0	Hex.30	1/4	$\phi$ 32.5	116.0
STF-3-03VR-3000	19.0	96.0	Hex.30	3/8	$\phi$ 32.5	134.0
STF-3-03SW-3000	12.0	96.0	Hex.30	3/8	$\phi$ 32.5	120.0
STF-3-04VR-3000	19.0	96.0	Hex.30	1/2	$\phi$ 32.5	134.0

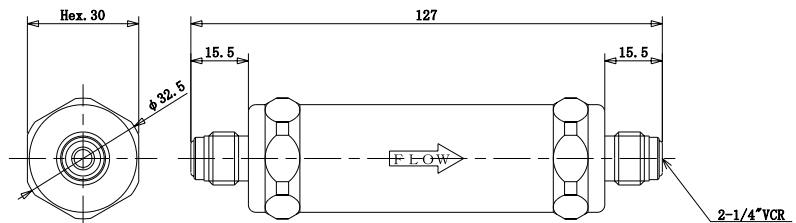


## Dimensional Outline Drawings

STF-2-02VR-3000



STF-3-02VR-3000



## How to Order

Type    Bore Diameter    Type of Joint

# STF - 2 - 02 VR - 3000

Indication of Flow Rate

2 : 40SLPM  
3 : 150SLPM

02 : 1/4"  
03 : 3/8"  
04 : 1/2"  
\*Type 2 is 1/4" only.

VR : VCR®  
SW : Swagelok®  
For other joints, please contact us.

※Specification is subject to change without notice.

PTFE  
gas filter