High Accuracy Filtration Low Pressure Loss PTFE Gas Filter



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. Much lower pressure loss especially for STF-4 series by large effective filtration area from film laminate structure.

High Corrosion Resistance

●Fluorine resin used for element film, element support, 0-ring etc., while SUS316L used for housing and every gas contacting part polished to R max 0.5µm or less and passivation process.

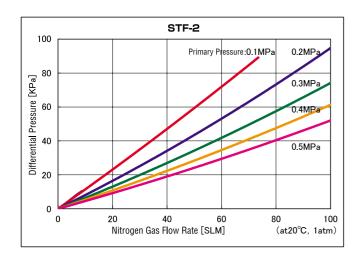


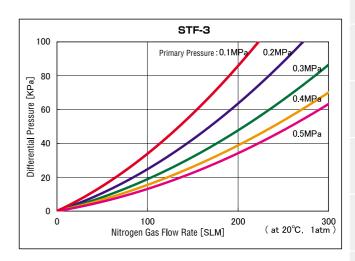
Specification

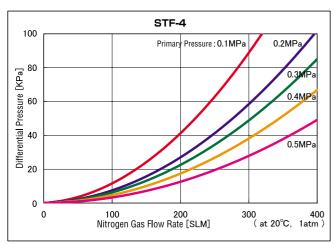
Filtration Accuracy	0.003µm					
Recommended Flow Rate	40 to 300L/min (refer to flow rate characteristic curve for each model)					
Max. Operating Pressure	0.98MPa (142PSIG) at20°C					
Max. Allowable Differential Pressure	0.5MPa (72.5PSIG) at20℃					
Back Pressure Resistance	0.07MPa (10.15PSIG) at20°C					
Max. Operating Temperature	120°C					
External Leakage	2×10 ⁻¹¹ Pa·m³/sec or less					
	Housing: SUS316L Roughness: Rmax0.5 µm or less					
Materials	Element/O-ring: PTFE Element support: PFA/ECTFE (STF-4 only)					
	Element: PTFE O-ring: Viton Element support: P.P (STF-7,8 only)					
Joint	1/4",3/8",1/2",3/4" (STF-7,8 only) VCR®,Swagelok®,Straight tube, and others					

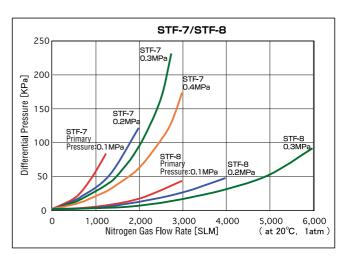
PTFE Gas Filter

Flow Rate Characteristics





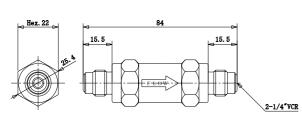




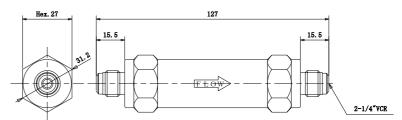
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Dimensional Outline Drawings

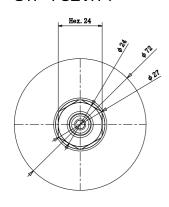
STF-2-02VR·P

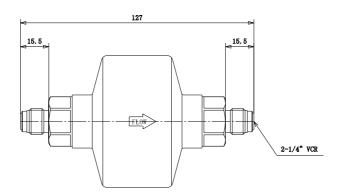


STF-3-02VR·P

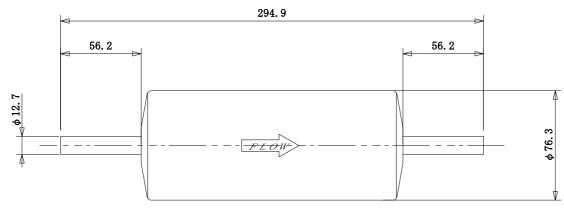


STF-4-02VR·P

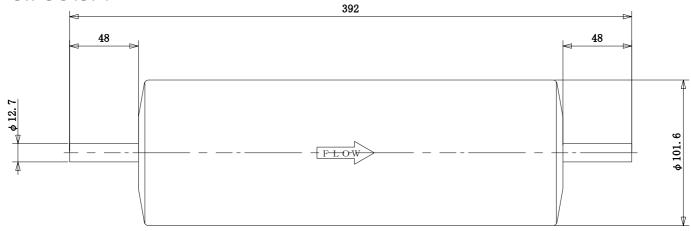




STF-7-04ST·P



STF-8-04ST·P

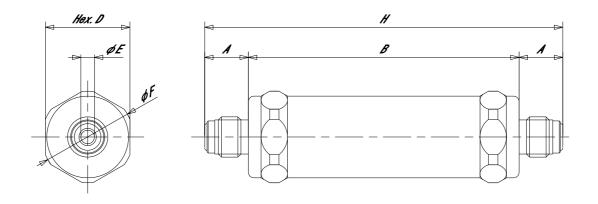




Dimensions

Model	A(mm)	B(mm)	D(mm)	E(inch)	F(mm)	H(mm)
STF-2-02VR · P	15.5	53.0	Hex.22	1/4	φ25.4	84.0
STF-2-02SW·P	10.0	53.0	Hex.22	1/4	φ25.4	73.0
STF-3-02VR • P	15.5	96.0	Hex.27	1/4	φ31.2	127.0
STF-3-02SW·P	10.0	96.0	Hex.27	1/4	<i>φ</i> 31.2	116.0
STF-3-03VR · P	19.0	96.0	Hex.27	3/8	φ 31.2	134.0
STF-3-03SW·P	12.0	96.0	Hex.27	3/8	φ31.2	120.0
STF-4-02VR • P	15.5	70.4	Hex.24	1/4	φ72.0	127.0
STF-4-02SW·P	10.0	67.4	Hex.24	1/4	φ72.0	113.0
STF-4-03VR·P	19.0	63.4	Hex.24	3/8	φ72.0	127.0
STF-4-03SW·P	12.0	63.4	Hex.24	3/8	φ72.0	113.0
STF-7-04ST·P	56.2	182.5	_	1/2	φ76.3	294.9
STF-8-04ST · P	48.0	296.0	_	1/2	φ101.6	392.0

PTFE Gas Filter



How to Order

Type Bore Diameter Type of Joint

STF - 2 - 02 VR • P

Indication of Flow Rate

2: 40SLPM

3: 150SLPM 4: 300SLPM

7:1,500SLPM 8:5,000SLPM 02:1/4"

03 : 3/8" 04 : 1/2" 06 : 3/4"

*Type 2 is 1/4" only.

VR: VCR®

SW: Swagelok® ST: Straight Tube

For other joints, please contact us.

※Specification is subject to change without notice.