

# All-Metal Gas Filter for Rough Filtration



## **Filtration Accuracy in Wide Range**

- Wide filtration accuracy range from 0.1 to 10 $\mu$ m under constant and pulsation flows.

## **High Corrosion Resistance**

- No corrosive material used for constructional material of filter to avoid corrosion or secondary product generation.

## **Degas Characteristic**

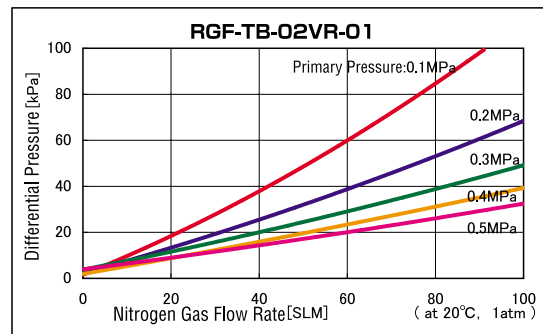
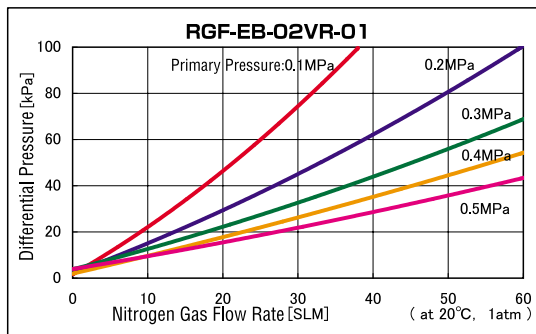
- APIMS degas measurement (amount of water) at 1.2ppb achieved with use of dedicated baking heater. Measurement at 0.1ppb level also achievable by continuous use of heater. Degas characteristic improved furthermore by removing impurity residue in filter by special cleansing.

## Specification

Filtration Accuracy	0.1, 0.5, 1.0, 5.0 and 10 $\mu$ m are available	
Recommended Flow Rate	Size between plates: E size...40L/min, T size...60L/min	
Max. Operating Pressure	17MPa (2,465PSIG) at 20°C	16.5MPa (2,392PSIG) at 120°C
Max. Allowable Differential Pressure	2MPa (290PSIG) at 20°C	
Max. Continuous Operating Temperature	400°C	
External Leakage	2 $\times$ 10 <sup>-11</sup> Pa·m <sup>3</sup> /sec or less	
Materials	Housing: SUS316L (Electrochemical polishing) Element: SUS316L Roughness: Rmax0.7 $\mu$ m or less	
Joint	1/4", 3/8", 1/2" VCR®, Swagelok®, and others	

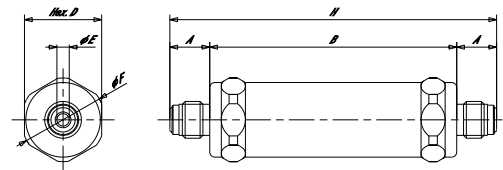
Metal Gas Filter

## Flow Rate Characteristics



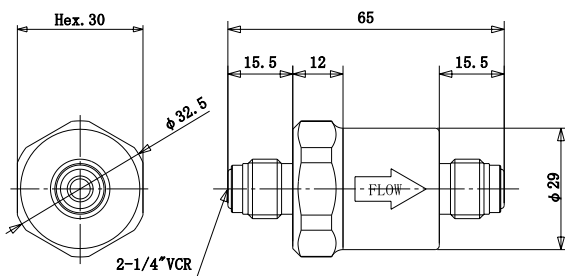
## Dimensions

Model	A(mm)	B(mm)	D(mm)	E(inch)	F(mm)	H(mm)
RGF-EB-02VR	15.5	34.0	Hex.30	1/4	$\phi$ 32.5	65.0
RGF-EB-02SW	10.0	35.0	Hex.30	1/4	$\phi$ 32.5	55.0
RGF-TB-02VR	15.5	53.0	Hex.30	1/4	$\phi$ 32.5	84.0
RGF-TB-02SW	10.0	53.0	Hex.30	1/4	$\phi$ 32.5	73.0

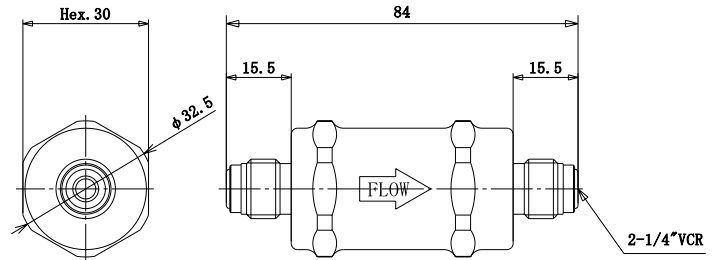


## Dimensional Outline Drawings

RGF-EB-02VR-\*\*



RGF-TB-02VR-\*\*



## How to Order

Size Between Planes    Bore Diameter    Type of Joint    Filtration Accuracy

**RGF - E B - 02 VR - 01**

E : Short Size  
65mm (VCR®)  
55mm (Swagelok®)  
T : Middle Size  
84mm (VCR®)  
73mm (Swagelok®)

02 : 1/4"  
03 : 3/8"  
04 : 1/2"

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

01 : 0.1 $\mu$ m  
05 : 0.5 $\mu$ m  
1 : 1.0 $\mu$ m  
5 : 5.0 $\mu$ m  
10 : 10 $\mu$ m

※Specification is subject to change without notice.