

Low Pressure Loss Inline Ceramic Gas Filter



Low Pressure Loss

- Extremely low pressure is realized, OUT side pressure of ΔP at 0.01MPa against IN side pressure of 0.1MPa at 10L/min nitrogen gas flow.

High Accuracy Filtration

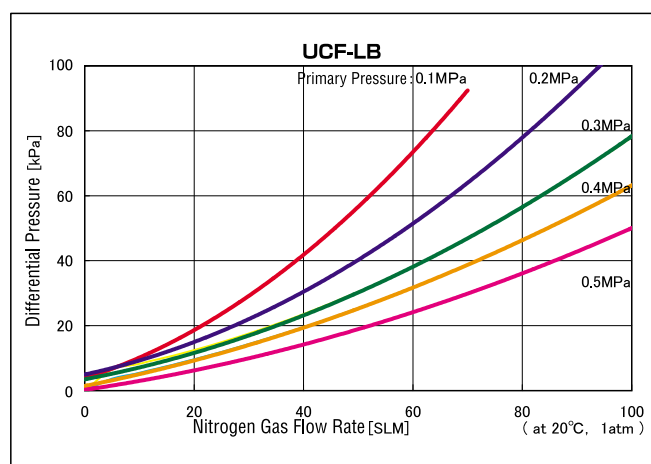
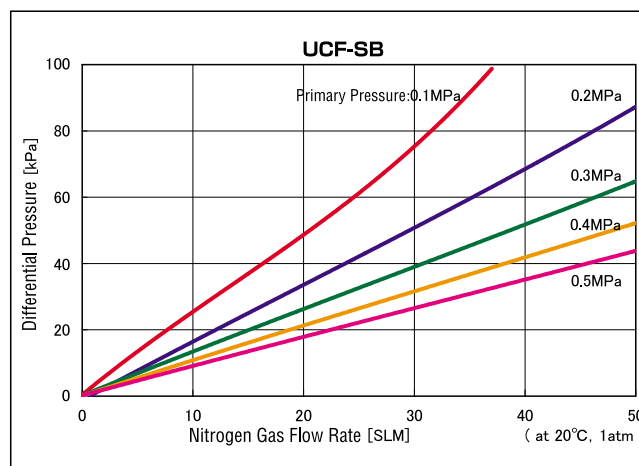
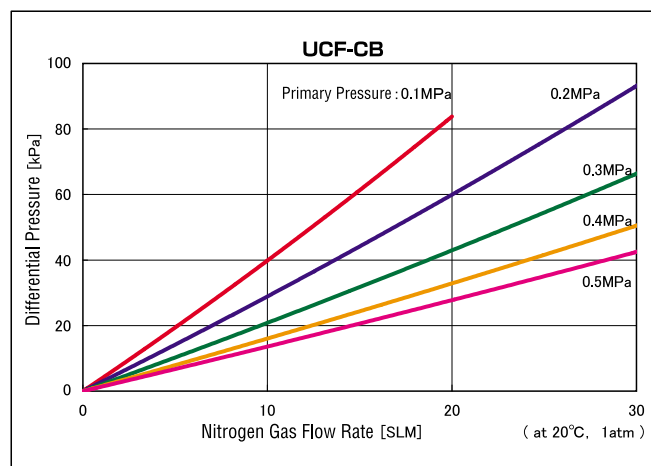
- 0.01 μ particle removal efficiency is 99.999999999%, contributing to significant improvement for extraction rate in sub micron ULSI production.

Specification

Filtration Accuracy	0.01 μ m
Recommended Flow Rate	10 to 160L/min (refer to flow rate characteristic curve for each model)
Max. Operating Pressure	17MPa(2,465PSIG) at 20°C 16.5MPa(2,392PSIG) at 120°C
Max. Allowable Differential Pressure	3MPa(435PSIG) at 20°C
Max. Continuous Operating Temperature	120°C
Baking Temperature	200°C
External Leakage	2 $\times 10^{-11}$ Pa $\cdot$ m ³ /sec or less
Materials	Housing: SUS316L Roughness: Rmax0.7 μ m Element: Alumina ceramics(Al ₂ O ₃) Seal: PTFE
Joint	1/4", 3/8", 1/2" VCR®, Swagelok®, and others

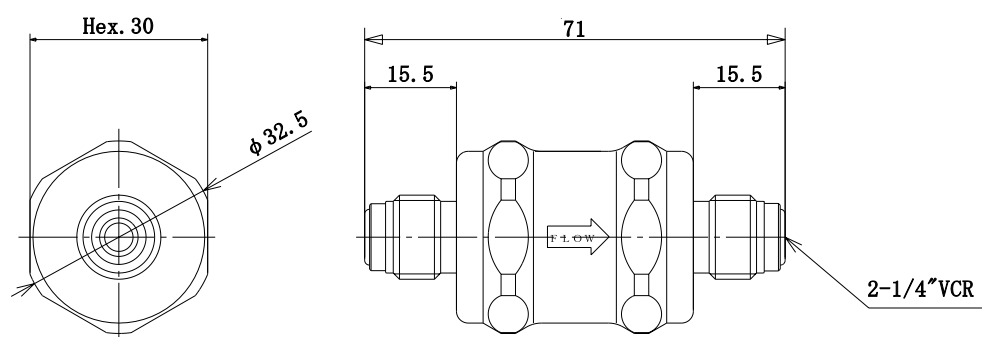
Ceramic
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Flow Rate Characteristics

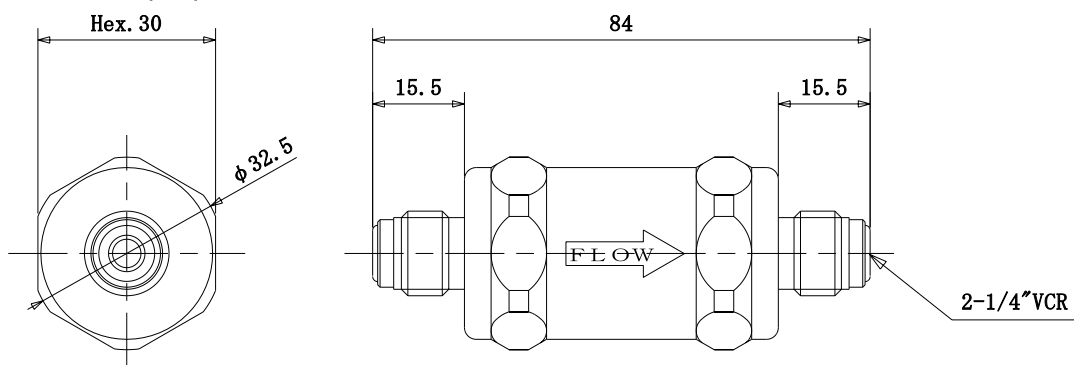


Dimensional Outline Drawings

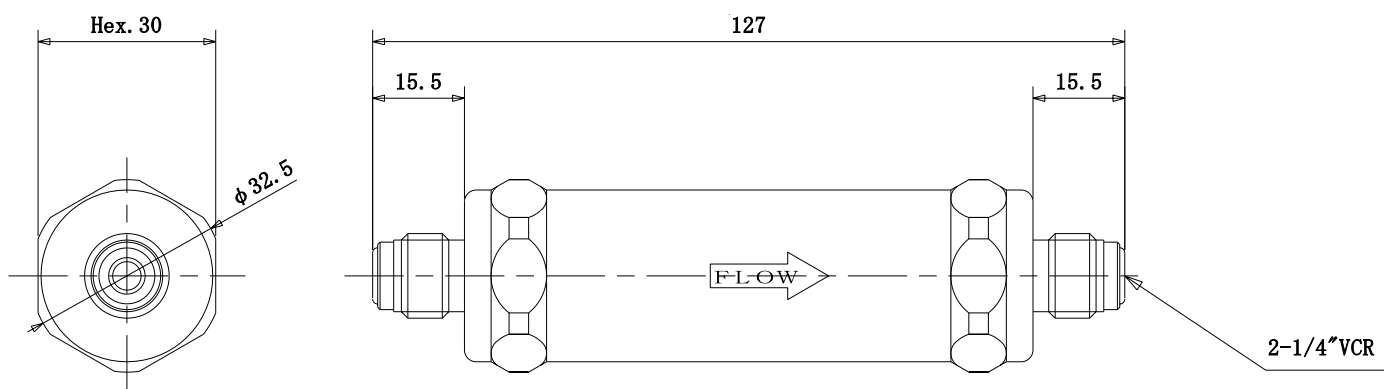
UCF-CB-02VR•P



UCF-SB(SC)-02VR•P



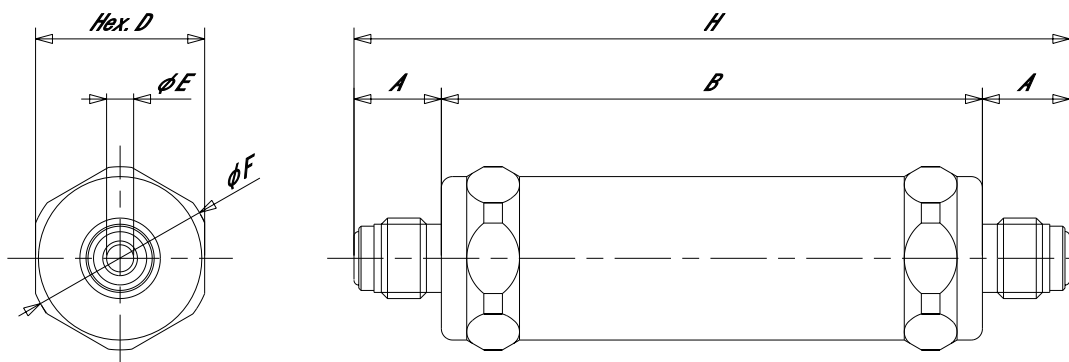
UCF-LB(LC)-02VR•P



Dimensions

Model	A(mm)	B(mm)	D(mm)	E(inch)	F(mm)	H(mm)
UCF-CB-02VR・P	15.5	40.0	Hex.30	1/4	Φ32.5	71.0
UCF-CB-02SW・P	10.0	40.0	Hex.30	1/4	Φ32.5	60.0
UCF-SB-02VR・P	15.5	53.0	Hex.30	1/4	Φ32.5	84.0
UCF-SB-02SW・P	10.0	53.0	Hex.30	1/4	Φ32.5	73.0
UCF-LB-02VR・P	15.5	96.0	Hex.30	1/4	Φ32.5	127.0
UCF-LB-02SW・P	10.0	96.0	Hex.30	1/4	Φ32.5	116.0
UCF-SC-02VR・P	15.5	53.0	Hex.30	1/4	Φ32.5	84.0
UCF-SC-02SW・P	10.0	53.0	Hex.30	1/4	Φ32.5	73.0
UCF-LC-02VR・P	15.5	96.0	Hex.30	1/4	Φ32.5	127.0
UCF-LC-02SW・P	10.0	96.0	Hex.30	1/4	Φ32.5	116.0

Ceramic
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How to Order

UCF - S C - 02 VR ・ P B S

Between Planes Pressure Loss Bore Diameter Type of Joint Inner Face Processing Option

C : Mini
S : Short
L : Long

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

P : Special Electrochemical Polishing
(Mirror Processing)

B : Baking / Metal Cap
S : Internal Ultra Pure Water
Pressure Feed Cleansing

B : Medium Pressure Loss
C : Low Pressure Loss

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

※Specification is subject to change without notice.