High-Capacity Sensitive Check Valves CF Series

Introduction

High-Capacity Sensitive Check Valves, also known as exhaust check valves, feature minimal cracking pressure and high capacity. These valves are typically installed on the exhaust side of a vacuum pump to prevent air from entering the system during pump shutdowns or malfunctions.

Features

- ◎ 316 SS body, equipped with FKM O-ring
- O Minimal cracking pressure
- Large orifice and high capacity
- KF Vacuum Flange Port

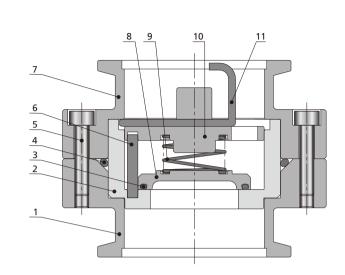
Technical Data

Nominal Cracking Pressure psig (mbar)		0.22 (15)	0.36 (25)	0.73 (50)	0.91 (63)	1.02 (70)		
Cracking Pressure Range psig (mbar)		0.1~0.25 (6.9~17.2)	0.27~0.4 (18.6~27.6)	0.6~0.75 (41.4~51.7)	0.7~0.95 (55.2~65.5)	0.85~1.05 (62.1~72.4)		
Reseal Pressure psig (mbar)		Back Pressure ≤0.1 (6.9)	Inlet Pressure ≥0.2 (13.8)	Inlet Pressure ≥0.4 (25.6)	Inlet Pressure ≥0.5 (41.4)	Inlet Pressur ≥0.65 (44.8)		
Max. Working Pressure psig (bar)		145 (10)						
Working Temperature Range °F (°C)		32 ~ 248 (0 ~ 120)						
Wetted Surface Roughness μin. (μm)		Mechanical Polishing Ra 16 (0.4)						
Process Specification		FC-01 or FC-02						
Flow Coefficient (Cv)		14.4						
Leak Rate (Helium)	Internal	<1×10 ⁻⁷ std cm ³ /s						
	External	<5×10 ⁻¹⁰ std cm ³ /s						



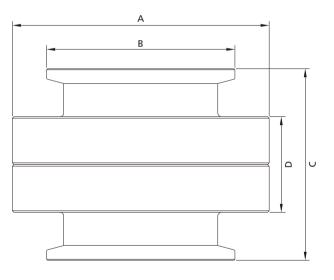
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Major Materials of Construction



Item	Component	Material Grade		
1	Inlet Body	316 SS		
2	Sleeve	316 SS		
3	O-ring	FKM		
4	O-ring	FKM		
5	Screw	Stainless Steel		
6	Round Pin	Stainless Steel		
7	Outlet Body	316 SS		
8	Poppet	316 SS		
9	Spring	304 SS		
10	Seat	316 SS		
11	Limit Bracket	316 SS		

Dimensions and Ordering Information



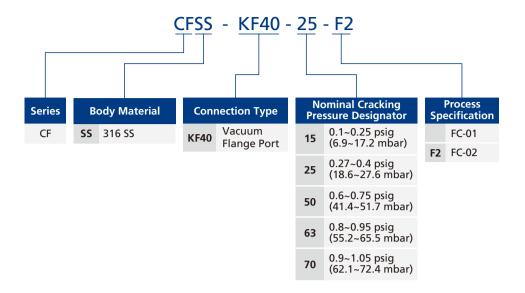
Basic Ordering Number	Connection Type	Orifice in. (mm)	Cv	Dimensions, in. (mm)			
				А	В	С	D
CFKF40	KF40	0.98 (25)	14.4	2.95 (75)	2.17 (55)	2.2 (56)	1.1 (28)

Note: Dimensions are for reference only and are subject to change. For other dimensions, please contact FITOK Group or our authorized distributors.

Technical Information

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Ordering Number Description



Notes:

- 1. "Ordering Number Description" is a reference to understand the combination rules of FITOK product part number.
- Not all combinations are available, Should you have any questions, please contact FITOK Group or our authorized distributors.
- 2. Check valve is designed with unidirectional flow path, it can't be used as safety relief valve.

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