

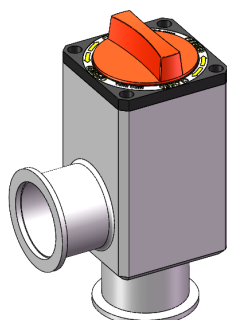
Manual High Vacuum Poppet Valve

Technical Manual

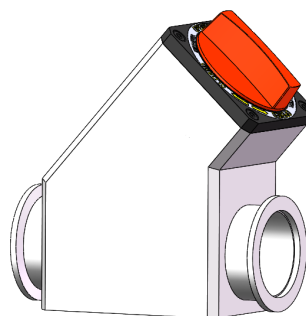


Introduction

- Rotate the knob 90° to open and close the valve. Automatically locks after the switch is positioned;
- Meticulously designed for comfortable human torque.
- Ultra-long life metal corrugated metal bellow.



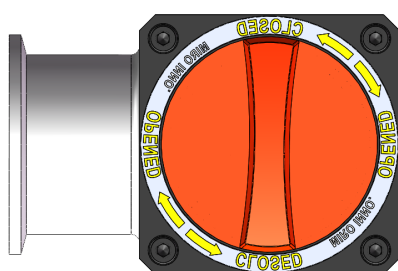
Angle Valve



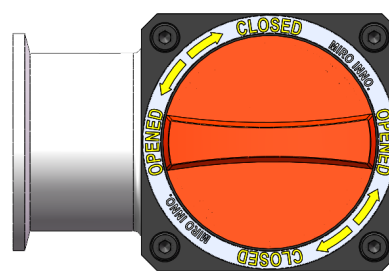
Inline Valve

Operating Method

- Rotate the handle **clockwise 90°** to close the valve, **counterclockwise 90°** to open the valve.
- When the handle direction is perpendicular to the lateral flange direction, the valve is closed; when the handle direction is parallel to the lateral flange direction, the valve is open.
- The valve will automatically lock when it reaches the open or closed position.



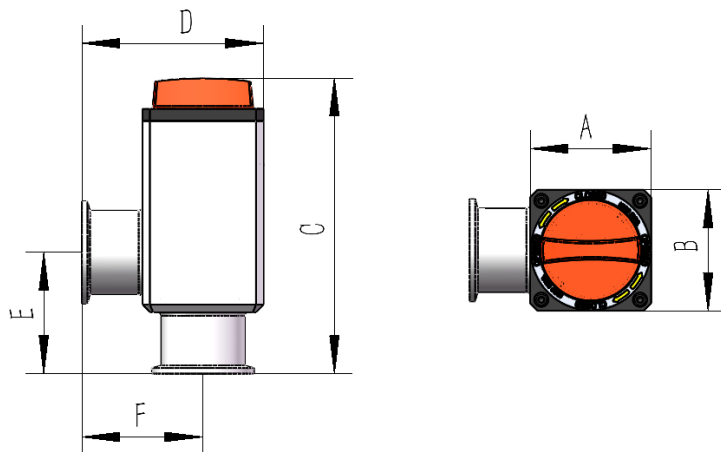
Closed State



Open State

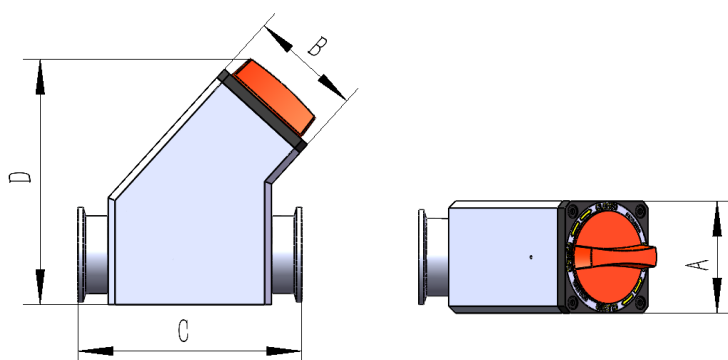
Operating Parameters

- 1) Optional models: KF16、KF25、KF40、CF16、CF40
- 2) Optional body materials: Al、SUS316L
- 3) Leakage rate: $<1 \times 10^{-9}$ mbar•L/sec (1×10^{-10} m³•Pa/sec)
- 4) Minimum operating pressure: 1×10^{-8} mbar (1×10^{-6} Pa)
- 5) Maximum forward operating pressure: 2000mbar (absolute pressure)
- 6) Maximum reverse operating pressure: 1500mbar (absolute pressure)
- 7) Airflow direction: No need to distinguish the airflow direction in a vacuum environment
- 8) Seals: corrugated metal bellow (SUS316L), FKM rubber



Angle Valve Size Table (mm)

Models	A	B	C	D	E	F
KF40	65	65	158.5	97.5	65	65
KF25	52	52	132	78	50	50
KF16	42	42	107	61	40	40



Inline Valve Size Table (mm)

Models	A	B	C	D
KF40	65	65	158.5	142
KF25	52	52	132	106
KF16	42	42	107	93



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