

# Canister Assemblies

## CSR Series

### Introduction

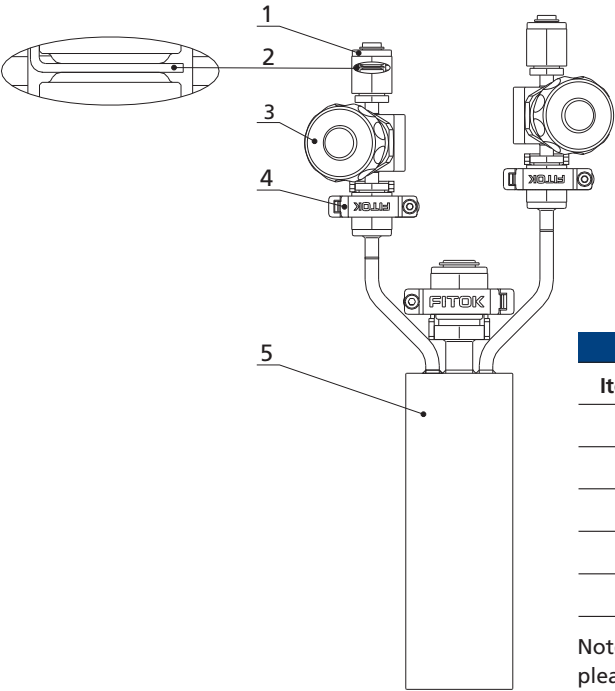
In atomic layer deposition (ALD) process, selecting the right precursor is critical for process control and film performance, etc. Meanwhile, based on the precursor properties such as volatility and reactivity, matching the right canister will have a synergistic effect on the process. Through high quality control of the material selection to the molding process, CSR Series Canister Assemblies can accommodate the packaging and storage of most precursors and provide excellent safety and cleanliness for the entire deposition process.



### Features

- ⦿ Ultra high purity processes for ultra high purity applications
- ⦿ Wetted metal parts are 316L stainless steel for broad chemical compatibility
- ⦿ External surface mechanical mirror polished and internal surface electropolished to roughness  $Ra \leq 10 \mu\text{in.}$  ( $0.25 \mu\text{m}$ )
- ⦿ Leak rate (helium):  $\leq 1.0 \times 10^{-9}$  std  $\text{cm}^3/\text{s}$
- ⦿ Connection size: 1/4" to 1/2"
- ⦿ Connection type: metal gasket face seal fittings
- ⦿ Customized volumes available upon request

### Major Materials of Construction



Item	Component	Part Number Example	Material
1	Cap	6L-CP-FR4	316L SS
2	Gasket	6L-GT-FR4-AS-UP	316L SS
3	Diaphragm Valve	DQ6L-RFR4-RF3	316L SS
4	Locking Device	S4-FR4-LD	304 SS
5	Canister	CSR6L-50-ALD	316L SS

Note: Figure above shows the typical product type. For other types, please contact FITOK Group or our authorized distributors.

Fittings

Valves

Pressure Gauges

Integrated Systems and Others

Process Specification