

TD/TCD

B-SEAL IGS Valves

TD/TCD Series is a group of compact valves for the accumulated gas system (BIS/ BISF) that is developed by KITZ SCT.



Valve Features

- ◎ KITZ-SCT's unique B-SEAL structure: Speedy and sure installation is made possible due to its center-lock mechanism. Reduction of assembly process and time required for the maintenance by user is expected to contribute to an overall cost reduction.
- ◎ Using KITZ-SCT's unique snap mechanism incorporated in manual valves extensively facilitates the operation even in a limited working space. In addition, the valve can be operated by one-touch, which helps avoid insufficient or excessive torque when turning the handle to either end, and thus increases an operational reliability. Considering safety, a miss-operation protective mechanism (fixing screw) is newly adopted.
- ◎ The valve is equipped with a mechanism to avoid miss-insertion and miss-installation by means of notch located on the base.
- ◎ The seal type use 1/8" CVC fitting that has been proven in a conventional gas system.

Major Specifications

Type (Size)	TCD	TD
Cv Value	0.15	0.3
Max. Working Pressure	0.98Mpa (142psi)	
Max. Fluid Temp	PCTFE -10~80°C(14~176F) PFA -10~120 °C(14~248F)	
Operating Pressure	0.4~0.7Mpa (60~100psi)	
Internal Leakage Allowance	3×10 ⁻⁹ atm-cc/sec (3×10 ⁻¹⁰ Pa·m³/sec)	
External Leakage Allowance	3×10 ⁻¹¹ atm-cc/sec (3×10 ⁻¹² Pa·m³/sec)	
Cycle Life	Pneumatic 1,000,000 Manual 50,000	

Product Grade

Grade	EP
Material	316L
Inner Surface Roughness	Rz0.7μm(Ra5μinch)
Polishing	Electropolishing finish
Cleaning	Degreasing + Precision cleaning
After Cleaning	class 10 Clean circumstances
Packing	W-Packing with clean pack. N2-charge

Precautions

- ① The valves are designed to be used under atmospheric pressure. Usage such as under vacuum vessels are not guaranteed.
- ② For high temperature applications, please select appropriate material for air-fittings and tubes to assure proper performance.

Manual Valves

Model	Type	Cv Value
	TCD4MS-GC-546-EP	0.15
	TD4MS-GC-548-EP	0.30

Check Valves

Model	Type	Cracking Pressure	Packing
	IC4-1/3-GF-75-EP	1/3psi	FKM
	IC4-1-GF-82-EP	1psi	
	IC4-10-GF-84-EP	10psi	

Composite Valves

Model	Type	Operation
	TCD4CI-1/3-GCF-□-EP	NO
	TCD4OI-1/3-GCF-□-EP	NC

Pneumatic Valves (N.C.)

Model	Type	Cv Value
	TCD4CS-GC-386-EP	0.15
	TD4CS-GC-509-EP	0.30

Pneumatic Valves (N.O.)

Model	Type	Cv Value
	TCD4OS-GC-□-EP	0.15
	TD4OS-GO-□-EP	0.30

Flow Control Valves

Model	Type
	TCD4FS-GM-04