

TD/TCD

C-SEAL IGS Valves

TD/TCD Series is a group of compact valves for 1.125inch-C-SEAL.



Valve Features

- ⊙ These valves are diaphragm valves of Surface Mount type, and are compatible with 1.125" C-SEAL. Both manual and pneumatic valves in this series incorporate a compact actuator, which allows the valve to suit to fine line pitches.
- ⊙ The manual valves are 90° open/close types, and capable to equip a lock key for preventing miss-operations.
- ⊙ TD Series has achieved 0.3 for Cv value that is still higher than that of our KD Series.
- ⊙ The surface that comes in contact with gases are made rich in chrome, and achieved Cr/Fe >2.0.(SEP specification)
- ⊙ Achieving Hv300 on the sealing surface, repeated detachability is further improved.

Major Specifications

The standard model is TD Series.

Type (Size)	TCD	TD
Cv Value	0.1	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·m ³ /sec)	
External Leakage Allowance	3×10 ⁻¹¹ atm·cc/sec (3×10 ⁻¹² Pa·m ³ /sec)	
Cycle Life	Pneumatic 1,000,000 Manual 50,000	

Product Grade

Grade	SEP
Material	316LE
Inner Surface Roughness	Rz0.7μm(Ra5μininch)
Polishing	Electropolishing finish
Cleaning	Degreasing + Precision cleaning
After Cleaning	class10 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
	TCD4QS-GC-□	0.1
	TD4OS-GC-□	0.3

Pneumatic Valves 2 Port (N.C.)

Model	Type	Cv Value
	TCD4CS-GC-□	0.1
	TD4CS-GC-985	0.3

Pneumatic Valves 2 Port (N.O.)

Model	Type	Cv Value
	TCD4OS-GC-□	0.1
	TD4OS-GC-□	0.3

Pneumatic Valves 3 Port (N.C.)

Model	Type	Cv Value
	TCD4CB-GC-□	0.1
	TD4CB-GC-1003	0.3

Pneumatic Valves 3 Port (N.O.)

Model	Type	Cv Value
	TCD4OB-GC-□	0.15
	TD4CB-GC-□	0.30