

KITZ SCT

NTD Series

Valve for 1.125" C-Seal



The NTD series are compatible for 1.125" C-Seal substrate that achieves high durability and Cv consistency.

Features

High durability

Rated 10 Million or greater cycles, realized as a result of our unique technology.
* Our test performance (test conditions) : Automatic valve, fluid N2, charged pressure 145psig(1.0MPa (G))

Stable Cv

Consistent gas flow rates are obtained because fluctuations, due to machining differences, are minimized and reduces differences in Cv among all valves.
Min. variation in Cv (±10%) among all valves, and also over the 10 million cycles.
* Performance values according to our testing methods

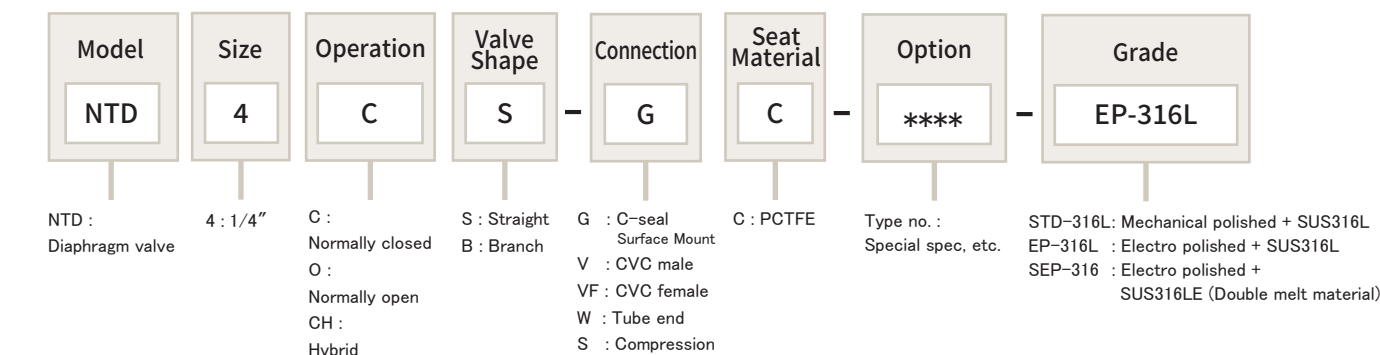
Specifications

Model		NTD4C (N.C)	NTD4O (N.O)	NTD4CH (Hybrid (manual + N.C.))
Size		1/4" (1.125")		
Cv *1		0.3 (Room temperature)		
Maximum Operating Pressure		145 psig (1.0 MPa(G))		
Wetted Area Volume *2		0.05 in ³ (0.82 cm ³)		
Fluid Temperature *3		+20~+50°C		
Atmospheric Temperature		+20~+50°C		
Actuation pressure		65~102 psig (0.45~0.7 MPa (G))	73~87 psig (0.5~0.6 MPa (G))	65~102 psig (0.45~0.7 MPa (G))
Leak Rates	Across the Seat He Leak Rates	$\leq 1 \times 10^{-9}$ SCCS ($\leq 1 \times 10^{-10}$ Pa · m ³ /s)		
	Inboard He Leak Rates	$\leq 1 \times 10^{-9}$ SCCS ($\leq 1 \times 10^{-10}$ Pa · m ³ /s)		
Cycle life *4		10 million cycles	10 million cycles	10 million cycles (Manual : 10,000 cycles)

*1 Performance value of a single “C-seal” valve at room temperature based on SEMASPEC-90120394B-STD
*2 Calculated value
*3 Max. bakeout temperature at valve open : 120°C
*4 Lab tested : Nitrogen pressurized at 145psig (1.0MPa (G))

Grade	STD	EP	SEP
Body Material	SUS316L		SUS316LE (Double melt material)
Seat Material	PCTFE		
Diaphragm material	Cobalt alloy		
Surface Roughness	\leq Rz 126μin (3.2 μ m) \leq Ra 20μin (0.5 μ m)		\leq Rz 28μin (0.7 μ m) \leq Ra 5μin (0.13 μ m)
Polish	Mechanical polished		Electro polished
Cleaning	Degreasing + Precision cleaning		
Packaging	Single bagged package		Double bagged package

Type	Count	Percentage
1	1	100%



Dimensions Unit : inch (mm)

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Caution

Product specifications and performance values described in this catalog are based on our design calculations, in-house testing, product usage performance and public standards and specifications, and are posted as a user's guide under general usage conditions of the product. If the product is used outside of the described usage conditions or under special usage conditions, you should receive our technical advice in advance or it will be necessary to first conduct research and evaluation for performance verification at the users' own responsibility. Even if physical or personal damage occurs without use of the procedure, we shall assume no responsibility. Although this catalog has been edited with the utmost care possible, contact us if there are any unclear points if you come across any questionable matter. In addition, information described in this catalog will be revised without notice due to reasons that include correction of errors, supplement/improvement of insufficient content, improvement in product performance design change, and discontinuation of production of products, etc., when deemed necessary. This invalidates the product catalog of the previous version. The issue code is described in the back of your catalog. For product selection, contact us to confirm whether your catalog is the latest version. In addition, when exporting our products, exporters should obtain an export permit from the Ministry of Economy, Trade and Industry based on the provisions of the Export Trade Control Order of the "Foreign Exchange and Foreign Trade Act." Contact us regarding any unclear points.

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