UHP Valves, Fittings & System Integrate



NTD Series

Valve for 1.125" C-Seal





UHP Gas Series

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 ($\pm 10\%$) among all valves, and also over the 10 million cycles. * Performance values according to our testing methods

Specifications

Model		NTD4C (N.C)	NTD40 (N.O)	NTD4CH (Hybrid (manual + N.C.))					
Size		1/4" (1.125")							
Cv *1		0.3 (Room temperature)							
Maximum Operatin	g Pressure	145 psig (1.0 MPa(G))							
Wetted Area Volum	e *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))					
Look Dataa	Across the Seat He Leak Rates	$\leq 1 \times 10^{-9}$ SCCS ($\leq 1 \times 10^{-10}$ Pa·m ³ /s)							
Leak Rates	Inboard He Leak Rates	$\leq 1 \times 10^{-9}$ SCCS ($\leq 1 \times 10^{-10} \text{ Pa} \cdot \text{m}^3/\text{s}$)							
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

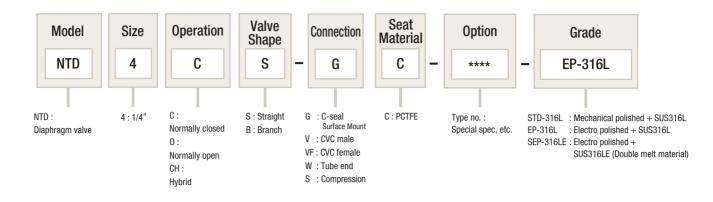
*2 Calculated value

*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	≤ Rz 126μin(3.2μm) ≤ Ra 20μin(0.5μm)	≤ Rz 28μin (0.7μm) ≤ Ra 5μin (0.13μm)					
Polish	Mechanical polished Electro polished						
Cleaning	Degreasing + Precision cleaning						
Packaging	Single bagged package	Double bagged package					

Туре



Dimensions

Unit : inch (mm)

Model	Туре	Connection	Η	H1	J	Α	В	С	D	Ε	F	М	Ν	Р	Q
	NTD4CS-GC	C-1.125″ Surface Mount	(85)	(77)		28.5	5	28.6 12.7	7 7.75	5 21.74	4 4.75	5.2	1.55	M5×0.5	1/8" tube
	NTD40S-GC	C-1.125" Surface Mount	(80)	(72)	6.6	27	28.6								
	NTD4CHS-GC	C-1.125" Surface Mount	(127)	(116)		28.5								_	









Global Network

Tokvo Head Office JRE Omorieki Higashiguchi Bldg, 3F, 1-5-1 Omorikita, Ota-Ku, Tokvo 143-0016, Japan TEL. 81-3-6404-2171 FAX. 81-3-6404-2172

Osaka Sales Office 202 MG Amagasaki Ekimae Bldg., 21 Misono-Cho, Amagasaki-shi, Hyogo 660-0861, Japan

TEL. 81-6-6413-4177 FAX. 81-6-6413-4188

Chukyo Branch Office Ozeki-Heights 1F, 1-12-13 Unomori, Yokkaichi-shi, Mie 510-0074, Japan

TEL 81-59-350-8121 FAX 81-59-350-8122

Kyushu Sales Office

Z-S Fukuoka Bldg. 4F, 3-4-2 Higashihie, Hakata-Ku, Fukuoka-shi, Fukuoka 812-0007, Japan TEL 81-92-483-0185 FAX 81-92-483-0186

Nitta SC Factory

150-2 Nittakane-Cho, Ota-shi, Gunma 370-0352, Japan TEL 81-276-60-9600 FAX 81-276-60-9330

KITZ SCT AMERICA CORPORATION 5201 Great America Parkway, Suite 238, Santa Clara, CA 95054, USA TEL 1-408-747-5546 FAX 1-408-747-5726 KITZ SCT CORPORATION TAIWAN REPRESENTATIVE OFFICE 3F-1, No. 38, Beida Rd., East Dist., Hsinchu City 30044, Taiwan (R.O.C.) TEL 886-3-542-0110 FAX 886-3-542-0551 KITZ CORPORATION OF SHANGHAI Rm. 1701-1704, No.3000, North Zhongshan Rd., Putuo Dist., Shanghai 20063, China TEL 86-21-5243-5025 FAX, 86-21-6439-1257

KITZ SCT CORPORATION OF KUNSHAN 8-3, No. 3 Road, Export Processing A Zone,

Kunshan Jiangsu 215300, China TEL 86-512-5735-0700 FAX 86-512-5735-7500

KITZ SCT CORPORATION OF KUNSHAN BRANCH FACTORY Bldg. 9, No. 68, Taoyuen Rd., Export Processing B Zone, Kunshan Jiangsu 215300, China

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 this 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 or 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, supplementation/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 on the back of your catalog. For product selection, contact us to confirm whether your catalog is the latest version.

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