

□ Chemical Resistance Data ( Connector )

※ Use the following table as a guide to the applicable fluids when using a connector.

◎=Excellent, can be used without problems.

○=Good, may be affected to some extent, but can be used under general conditions.

△=Fair, need to verify suitability.

×=Poor, cannot be used.

※ Liquid is assumed to be at saturated concentration in aqueous solution unless stated otherwise.

Note ) This table is about the joints flow path ( inner surface ), and was prepared based on the data provided from the material maker and references. The data does not apply to practical use. The data may differ according to the conditions such as usage methods, temperature, pressure, concentration and period, etc., so check the detailed working conditions and contact us through our web site. Refer to the Chemical Resistance Data ( hose ) for the hose's chemical resistance data.

Note ) This data is subject to change for update of specifications and availability of newer information.

CONNECTOR name		Names of parts which could come in contact with fluids				
	TOYOCONNECTOR TCB	Nipple Inner fitting	—	—	—	Rubber cap
	TOYOCONNECTOR TCS	—	—	Nipple	—	Rubber cap
	TOYOCONNECTOR TCP	—	—	—	Nipple Inner fitting	Rubber cap
	TOYOCONNECTOR TCSB	—	—	Nipple	—	—
	TOYOCONNECTOR TCSBS	—	Nipple	—	—	—
	TOYOCONNECTOR TCFS	—	Nipple	—	—	—
	Food grade hose assemblies	—	Nipple	—	—	—
	Hose assemblies for general industry pipe thread.	—	—	Nipple	—	—
	TOYOFUSSO HOSE CONNECTORS FJN	—	Serrated nipple	—	—	—
	<b>Chemical name ( Weight and concentration ( % ), temperature ( °C ) )</b>	<b>Brass</b>	<b>SCS16A SUS316L</b>	<b>SCS13 SUS304</b>	<b>Polyacetal</b>	<b>NBR</b>
S	Salad oil	—	—	—	—	—
	Salicylic acid	◎	△	△	—	—
	Salt	△	△	△	◎	◎
	Salt water	×	△	△	◎	◎
	Sea water	△	◎	◎	◎	—
	Silicon tetrachloride [ 55°C ]	—	—	—	—	—
	Silicone grease	—	—	—	—	◎
	Silicone oil	—	—	—	◎	◎
	Silver nitrate	—	△	△	—	—
	Soap solution	◎	◎	◎	◎	◎
	Soda ash ( Sodium carbonate )	◎	△	△	◎	◎
	Sodium bicarbonate	×	△	—	◎	◎
	Sodium bisulfite	—	—	—	—	◎
	Sodium carbonate ( Soda ash )	◎	△	△	◎	◎
	Sodium cyanide	×	△	△	◎	◎
	sodium hydrogen sulfite	—	—	—	—	◎
	Sodium hydroxide ( caustic soda ) [ 30% 70°C ]	—	○	△	△	◎
	Sodium hydroxide ( caustic soda ) [ 30% RT ]	—	○	△	△	◎
	Sodium hypochlorite [ 30% RT ]	—	—	—	—	—
	Sodium hypochlorite [ 5% 70°C ]	×	○	×	×	×
Sodium hypochlorite [ 5% RT ]	×	○	×	△	△	

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	TOYOCONNECTOR TCSBS	—	Nipple	—	—	—
	TOYOCONNECTOR TCFS	—	Nipple	—	—	—
	Food grade hose assemblies	—	Nipple	—	—	—
	Hose assemblies for general industry pipe thread.	—	—	Nipple	—	—
	TOYOFUSSO HOSE CONNECTORS FJN	—	Serrated nipple	—	—	—
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S	Sodium nitrate	△	◎	◎	◎	◎
	Sodium perborate	×	△	—	◎	◎
	Sodium peroxide	×	△	△	◎	◎
	Sodium phosphate	—	△	△	◎	○
	Sodium silicate	△	△	—	◎	—
	Sodium sulfate ( Glauber' s salt )	◎	△	△	◎	◎
	Sodium tetraborate ( Borax )	×	◎	—	◎	◎
	Sodium thiosulfate	△	△	△	◎	◎
	Soy bean oil	△	◎	△	◎	◎
	Steam	—	—	—	△	○
	Stearic acid	△	△	△	○	◎
	Styrene	△	△	◎	—	×
	Sulfur	×	△	△	◎	◎
	Sulfuric acid [ 10 % 70°C ]	×	△	△	△	◎
	Sulfuric acid [ 10 % RT ]	×	△	△	◎	◎
	Sulfuric acid [ 30 % 70°C ]	×	×	×	△	◎
	Sulfuric acid [ 30 % RT ]	×	×	×	△	◎
	Sulfuric acid [ 98 % 70°C ]	×	×	×	—	—
	Sulfuric acid [ 98 % RT ]	×	△	△	×	×
	Sulfuric acid Fuming [ RT ]	×	×	×	×	×
	Sulfurous acid	×	△	△	—	○
Sulfurous acid [ 10% RT ]	—	—	—	—	—	
Sulfurous acid gas	—	△	△	—	△	
Sulfurous acid natrium	◎	◎	◎	△	◎	