

□ 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	—	—	—
	Chemical name (Weight and concentration (%), temperature (°C))	Brass	SCS16A SUS316L	SCS13 SUS304	Polyacetal	NBR
A	11 Freon	◎	◎	◎	◎	×
	113 Freon	◎	◎	◎	—	×
	114 Freon	◎	◎	◎	◎	—
	12 Freon	◎	◎	◎	◎	○
	21 Freon	◎	◎	◎	◎	×
	22 Freon	◎	◎	◎	◎	×
	A (ASTM standard fuel)	◎	◎	◎	◎	◎
	Acetaldehyde	◎	◎	◎	◎	×
	Acetamide	—	—	—	—	◎
	Acetic acid [10 % RT]	×	△	△	×	△
	Acetic acid [100 % RT]	×	△	△	×	×
	Acetic acid [50 % 70°C]	×	△	△	×	×
	Acetic acid [50 % RT]	×	△	△	×	△
	Acetic acid anhydride	×	△	△	—	×
	Acetone [RT]	◎	△	△	△	×
	Acetonitrile	—	—	—	—	—
	Acetophenone [RT]	—	—	—	—	×
	Acetylene	×	◎	◎	◎	◎
	Acidic cone suger Liquors	—	—	—	—	—
	Acrylonitrile	△	△	△	◎	×
	Aluminium fluoride	◎	×	×	—	◎
	Aluminium sulfate (Cake alum, filter alum)	×	◎	◎	◎	◎
	Aluminum acetate	—	△	△	◎	◎
	Aluminum bromide	—	—	—	—	◎
	Aluminum chloride	×	×	×	◎	◎

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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	—	—	—
	Chemical name (Weight and concentration (%), temperature (°C))	Brass	SCS16A SUS316L	SCS13 SUS304	Polyacetal	NBR
A	Alums NH ₃ , Cr, K	—	—	—	◎	◎
	Aluminum nitrate	—	△	△	—	◎
	Ammonia (No water)	×	◎	◎	—	◎
	Ammonia gas (Cold)	×	◎	◎	—	◎
	Ammonia gas (Hot)	×	△	△	—	△
	Ammonia liquid	△	◎	◎	—	○
	Ammonia water (Ammonium roxide)	×	△	△	○	○
	Ammonium carbonate	—	△	△	◎	—
	Ammonium chloride	×	△	△	◎	◎
	Ammonium hydroxide (Ammonia water)	×	△	△	○	○
	Ammonium nitrate	×	△	△	○	◎
	Ammonium nitrite	—	—	—	—	△
	Ammonium phosphate	△	△	△	◎	○
	Ammonium sulfate	△	△	△	◎	◎
	Amyl acetate	△	◎	—	◎	×
	Amyl alcohol	△	△	△	—	○
	Amyl naphthalene	—	—	—	—	△
	Aniline	×	△	△	◎	×
	Anone (Cyclohexanone)	—	△	△	—	×
	Aqua regia	—	×	×	—	×
	Argon gas	—	—	—	—	—
Arsenic acid	△	△	△	—	—	
Asphalt	◎	◎	◎	◎	◎	