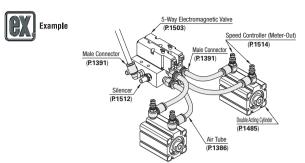
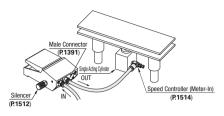
Tubes / One-Touch Couplings - Overview





Pressing the pedal extends the cylinder rod and releasing the pedal restores the rod to the original position under the force of a cylinder spring.

The extension speed of the piston rod can be adjusted using a meter-in speed controller.

Function list

Photo Phot	Polyamide erating Temperature Range (Air, Oil) 0 ~ 80°C (Water) e. Refer to specification table.	
Material Urethane Soft Polyurethane Nylon Applicable Fluid Air Water* Vacuum Air Vacuum Oil Air Water Vacuum Refer to Ope Elevate Range Specification -560°C 040°C -560°C -560°C -560°C -560°C -560°C -560°C -560°C -560°C -560°C -5100°C 0-80°C -5-100°C -40 - 120°C -40°C	erating Temperature Range (Air, Oil) 0 ~ 80°C (Water) e. Refer to specification table.	
Applicable Fluid Air Water* Vacuum Air Vacuum Air Vacuum Refer to Ope	erating Temperature Range (Air, Oil) 0 ~ 80°C (Water) e. Refer to specification table	
Temperature Range Specification -5~60°C 0~40°C -5~60°C -5~60°C -5~60°C -5~60°C -5~60°C -5~40°C -40~100°C 0~80°C -5~100°C -40~100°C -40	(Air, Oil) 0 ~ 80°C (Water) e. Refer to specification table	
Burst Pressure 3.0MPa - 1.7MPa - Depends on size Depends on size Max. Operating Pressure 0.8MPa 0.3MPa - 0.4MPa - Depends on size Depends on size 0.9 Depends on size Depends on size 1.00kPa - 100kPa 1.7 Depends on size Depends on size 1.00kPa - 100kPa 1.7 Depends on size Depends on size 1.7 Depends on size Depend	e. Refer to specification table	
Max. Operating Pressure Operating Vacuum Level Operating Vacuum Level - 0.4MPa - 0.4MPa - 0.4MPa - 0.4MPa - 0.4MPa - 0.4MPa - 100kPa - 100kPa - 100kPa - 100kPa - 100kPa - 100kPa - 4.Highly water resistant. * PUT/PUTL only.		
Operating Vacuum Level - 100kPa - 100kPa - 100kPa - 100kPa - Highly water resistant. * PUT/PUTL only More flexible than Nyion Tubes with smaller bend radius Excellent mechanical (especially wear resistance) - It can take the	e. Refer to specification table	
Highly water resistant. * PUT/PUTL only. More flexible than Nylon Tubes with smaller bend easier to handle than the Polyurethane Tubes. Excellent mechanical (especially wear resistance)	-	
	Available for oil supplying or oil hydraulic plumbing. It can take the place of copper pipes.	
Type PUTNS/PUTNSL PUTMF/PUTMSP PUTS/PUTSL PU	PUVFN/PUVFLN	
Photo		
	oft Polyurethane	
Applicable Fluid Air Water Vacuum Air Vacuum Air Water Vacuum Air Temperature Range Specification -15 ~ 90°C (Non-Freezing) -5~60°C -5~60°C 0~80°C -5~60°C	-15~50°C	
Burst Pressure 2.0MPa - 3.0MPa - 1.3MPa	-15~50 0	
Max. Operating Pressure 1.0MPa 0.3MPa - 0.8MPa - 0.8MPa - 0.8MPa - 0.4MPa		
Operating Vacuum Level - -100kPa - -100kPa -	-100kPa	
Features Ouickly carbonize upon contact with hot sputter properties.	Tubes excellent in flexibility and bending fatigue properties. Does not easily bend or curl and is ideal for piping in oscillating parts such as suction parts.	
Type PUAS/PUASL PORF/PORFL PUTF/PUTFL/PUFN PU	PUJTF/PUJTFL	
Photo		
Material Conductive Polyurethane Olefinic Resin Fluororesin FI	Fluororesin (ETFE)	
Applicable Fluid Air Vacuum Air Water Vacuum Air Water Vacuum	Air, Water	
Temperature Range Specification -5~60°C -20~60°C 0~40°C -20~60°C -65~260°C	-20~80°C	
	. Refer to specification table.	
Description - Electrically conductive tube is suitable for applications where static electricity is undesirable. - Each and conterns to the Food Sanitation Laws (except oil-processed bods), (Compliant to Health, Labor and Welter Ministry Notification 16, 370) - Inactive to most of corrosive gases, chemicals and solvents. - Excels in heat and low temperature resistance Inactive to most of corrosive gases, chemicals and solvents Inactive to most of corrosive gases, chemicals and solvents Inactive to most of corrosive gases, chemicals and solvents Inactive to most of corrosive gases, chemicals and solvents Excels in heat and low temperature resistance Excels in heat and low temperature resist	Excels in chemical resistance. Good clarity allows visual checks of contents. Compliant to Health, Labor and Welfare Ministry Notification No. 20 under Food Sanitation Laws of Japan.	
Type PUTFB/PUTFBL/PUTFG/PUTFGL PUTC/PUTCL		
Photo		
Material Fluoro Rubber Silicon Rubber		
Applicable Fluid Oil Air Water Water, Pure Water, Beverage, etc.		
Operating Temperature Range -20~180°C -30~150°C		

Compliant to Food Sanitary Act (MHLW Notification No. 201)
 Excels in heat and low temperature resistance.
 Retains the characteristics as an elastic body within the above temp. range.

Excellent in heat resistance, oil resistance, weather resistance and chemical resistance.
 Excellent resistance in the environment of ozone and light.

Features

List of Couplings for Tubes

Applicable Fluid	Connection Shape	Applicable Plun	nbing Components, Fittings	Operating Temperature Range	Operating Vacuum Level	Max. Operating Pressure	Pages
Air (some are for water)	- One-Touch		One-Touch Couplings	0~60°C	-100kPa	0.9MPa	P.1391~1395
Air		63	Miniature One-Touch Coupling Connectors	0~60°C	-100kPa	1MPa	P.1397
Air			Miniature Couplings	0~50°C	-100kPa	0.5~1MPa	P.1398
Air		OF.	Compact Air Fittings	-10~60°C	-100kPa	0.8MPa	P.1396
Air, Water		H	All Stainless Steel One- Touch Couplings	-15~120°C	-100kPa	1MPa	P.1403
Air, Water			Heat-Resistant One-Touch Fittings	0~100°C	-100kPa	1MPa	P.1404
Air, Water, Chemicals			One-Touch Couplings for Clean Applications	0~80°C	-100kPa	0.9MPa	P.1405
Air		T.	Rotary Joints / High Rotary Joints / Multi-circuit Rotary Joints	0~60°C	-100kPa	1MPa	P.1402
Air, Water	Nut-tightened		Couplings for Tubes	0~80°C * It differs depending on the current material.	-100kPa	It applies to Max. Operating Pressure of tubes.	P.1399
Super Pure Water, Acid, Alkali, Organic Solvent		10	Fluororesin Couplings	0~100°C	-	0.2~0.8MPa	P.1407
Air, Water, Oil			Couplings with Tube Insert	0~60°C * It differs depending on the current fluid.	-100kPa	It applies to Max. Operating Pressure of tubes.	P.1401

[•] Select tubes and one-touch couplings according to the tube outside diameter. Select nut-tightened couplings according to the tube inside diameter and outside diameter.

To ruse of one-touch couplings, if water is used as fluid, use of Tube Inserts in P.1390 is recommended for preventing tubes from dropping out.

When using Couplings with Tube Insert in P.1401 or Coupling for Tubes in P.1399, make sure that both the O.D. and I.D. of tubes conform with the applicable spec.

For fittings other than coupling for tubes (such as screw, welded fittings for pipes), refer to the "Pipes, Fittings, Hoses, Valves" index in P.1263~.