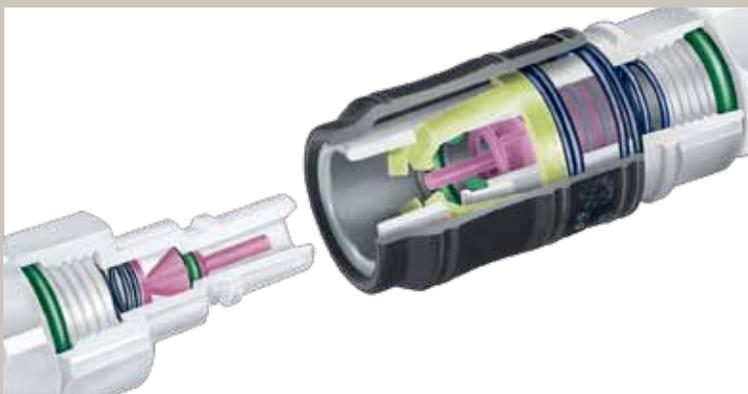


RectuChem / RectuPom

Resistance to Chemicals

RectuChem

This quick connect coupling system made of polyvinyl fluoride (PVDF) has been designed for increased resistance to chemicals. The stable spring made of high quality stainless steel guarantees a secure connection and permanent functionality.



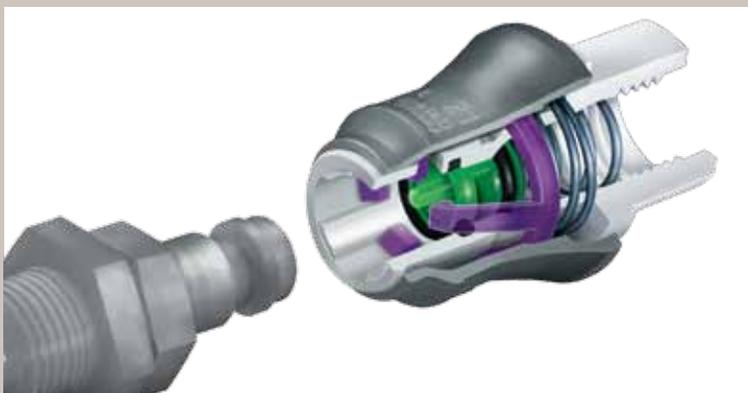
RectuChem+

This quick connect coupling system completely made of solid plastic is extremely resistant to all organic and mineral media. The resistance of the sealing materials, the PVDF base material and the spring fittings made of PEEK offer virtually unlimited application possibilities. The system is excellently suited for media that must not be contaminated by metal radicals.



RectuPom

The well proven, quick connect coupling system made of thermoplastic polymer is distinguished by unequalled high mechanical strength and outstanding resistance to liquids and high temperatures. The plug is automatically locked in position when pushed in. To disconnect, simply pull back the sleeve.



This chart is intended as a guide only and is not to be considered as a recommendation to use Rectus couplings in a specific application or with specific fluid. For more information please ask the our experts.

Resistance to Chemicals / RectuChem (PVDF)

● = recommended

▲ = restricted usage

■ = not recommended

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Acetaldehyde	■					
Acetanhydride	■	■	■			
Acetic acid (50%)	●	●	●	●	●	
Acetic acid (80%)	●	●	●	●		
Acetic acid (100%)	●	●	▲	■	■	
Acetone	■	■				
Acetone (50% water)	▲	▲	■			
Acetone nitrile	●	●	▲			
Acetophenone	●	▲	■	■		
Acetyl acetone	■			■		
Acetyl chloride	■	■				
Acryl nitrile	●	▲				
Adipic acid, diluted	●	●	●			
Allyl chloride	●	●	●	●		
Aluminium chloride	●	●	●	●	●	●
Aluminium chloride (50%)	●	●	●			
Aluminium fluoride	●	●	●	●	●	●
Aluminium fluoride (50%)	●	●	●			
Aluminium hydroxide	●	●	●	●	●	●
Aluminium nitrate	●	●	●	●	●	●
Aluminium nitrate (50%)	●	●	●			
Aluminium potassium sulphate	●	●	●	●	●	●
Aluminium sulphate	●	●	●			
Ammonia (30%)	●	●	●	●		
Ammonia, enhydrous	●	●	●	●	●	●
Ammonium aluminium sulphate	●	●	●	●	●	●
Ammonium carbonate	●	●	●	●	●	●
Ammonium chloride	●	●	●	●	●	●
Ammonium fluoride	●	●	●	●	●	●
Ammonium hydroxide	●	●	●	●	●	●
Ammonium nitrate	●	●	●	●	●	●
Ammonium phosphate	●	●	●	●	●	●
Ammonium sulphate	●	●	●	●	●	●
Ammonium sulphide	●	●	●	●	●	●
Amyl acetate	●	●	▲	■	■	
Amyl alcohol	●	●	●	●	●	●
Amyl chloride	●	●	●	●	●	●
Amyl chloride (50%)	●	●	●	●	●	●
Aniline	●	▲	▲	■		
Antimonous chloride	●					
Aqua regia	●	●	●			
Arsenic acid	●	●	●	●	●	●
Barium carbonate	●	●	●	●	●	●
Barium chloride	●	●	●	●	●	●
Barium hydroxide	●	●	●	●	●	●
Barium sulphide	●	●	●	●	●	●
Benzaldehyde	▲	▲	■			
Benzene	●	▲	▲			
Benzene-sulphonic acid	●	■				
Benzoic acid	●	●	●	●	●	●
Benzyl methyl ester			■			
Benzyl alcohol	●	●	●	●	●	●
Benzyl chloride	●	▲	▲	■	■	■

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Borax	●	●	●	●	●	●
Boric cold	●	●	●	●	●	●
Bromic acid	●	●	●	●	●	
Bromina, dry	●	●	●			
Butadiene	●	●	●	●		
n-Butanol	●	●	●	●	●	●
sec-Butanol	●	●	●	●	●	●
tert-Butanol	●	●	●	●	●	●
Butene	●	●	●	●	●	●
Butyl acrylate	●	▲	■	■		
Butyl acetate	●	▲	■	■		
n-Butyl amine	■	■				
sec-Butyl amine	■	■				
tert-Butyl amine	●	▲	▲	■		
n-Butyl bromide	●	●	●	●	●	●
n-Butyl chloride	●	●	●	●	●	●
Butyl glycol	●	●	●	●	●	●
n-Butyl mercaptane	●	●	●	●	●	●
Butyl phenol	●	●	●	●		
Butyric acid	●	●	●	●	●	
γ-Butyrol acetone			■			
Calcium carbonate	●	●	●	●	●	●
Calcium chlorate/chloride	●	●	●	●	●	●
Calcium disulphate	●	●	●	●	●	●
Calcium hydrogen sulphite	●	●	●	●	●	●
Calcium hydroxide	●	●	●	●	●	●
Calcium hypochlorite	●	●	●	●	●	●
Calcium nitrate	●	●	●	●	●	●
Calcium sulphate	●	●	●	●	●	●
Capric acid	●	●	●			
Caprylic acid	●	●	●	▲		
Carbon dioxine, wet	●	●	●	●	●	●
Carbon dioxide, anhydros	●	●	●	●	●	●
Carbon disulfide	●					
Carbon tetrachloride	●	●	●	●	●	●
Caustic soda (10%)	●	●	●	●		
Caustic soda (50%)	●	●	●	●		
Chloric acid gas	●	●	●	●		
Chlorine (5% in CCl4)	●	●	●	●		
Chlorine dioxine (15%)	●	●	●			
Chlorine, wet	●	●	●	●		
Chlorine, dry	●	●	●	●		
(Mono-)chloroacetic acid (50%)	●	●	●	●		
(Mono-)chloroacetic acid (100%)	●	●	●	●		
Chlorobenzene	●	●	●	▲		
Chlorodifluoromethane	●	●	●	●		
Chloroform	●	●	●	●		
Chlorosulfonic acid	■	■				
Chromic acid (50%)	●	●	▲			
Chromyl chloride	●	●				
Citric acid	●	●	●	●	●	●
Citric acid (50%)	●	●	●	●	●	●
Coconut oil	●	●	●	●	●	●

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Coke oven gas	●	●	●	●		
Cooper chloride	●	●	●	●	●	●
Cooper cyanide	●	●	●	●	●	●
Cooper fluoride	●	●	●	●	●	●
Cooper nitrate	●	●	●	●	●	●
Cooper sulphate	●	●	●	●	●	●
Corn all	●	●	●	●	●	●
Crotonaldehyde	●	●	▲	■		
Crude oil	●	●	●	●	●	●
Mineral oil	●	●	●	●	●	
Cyclohexane	●	●	●	●	●	●
Cyclohexanol	●	●	●	▲		
Cyclohexanone	●	■	■	■		
Dextrine	●	●	●	●	●	●
Diacetone alcohol	●	▲	■	■		
o-Dichlorobenzene						
Dichlorodifluormethane	●	●	●	●		
Diesel fuel	●	●	●	●	●	●
Diethylamine	●	■	■			
Diethylenetriamine	●	●	▲	■		
Diethyl ether	●	▲				
Diglycolic acid	●					
Diisobutyl ketone	●	●	●	●		
Diisopropyl ether	●	●				
N, N-Dimethyl acetamide			■			
Dimethyl amine	■	■	■	■		
Dimethyl aniline	●	▲	■	■	■	
Dimethyl formamide			■			
Dimethyl phthalate	●	▲	■	■		
1, 4-Dioxane	■	■	■			
Epichlorohydrine	■	■				
Ethyl acetate	●	▲	■	■		
Ethyl acrylate	●	▲	■	■		
Ethyl alcohol	●	●	●	●	●	●
Ethyl chloride	●	●	●	●	●	●
Ethylene bromide (1, 2-Dibromoethane)	●	●	●	●	●	●
Ethylene chloride (1, 2-Dichlorethane)	●	●	●	●	●	●
Ethylene chlorohydrine	●	▲	■	■		
Ethylene diamine	■	■				
Ethylene glycol	●	●	●	●	●	●
Ethylene oxide	●	●				
Fats (triglycerides of long or medium chain fatty acids)	●	●	●	●		
Fatty acids (long chain)	●	●	●	●	●	●
Fatty acids (medium chain)	●	●	●			
Ferrous chloride	●	●	●	●	●	●
Ferric chloride (50%)	●	●	●	●	●	●
Ferrous nitrate	●	●	●	●	●	●
Ferric nitrate	●	●	●	●	●	●
Ferrous sulphate	●	●	●	●	●	●
Ferric sulphate	●	●	●	●	●	●
Ferric sulphate (50%)	●	●	●	●		
Fluorine	●					
Formaldehyde (37%, Formalin, Wz)	●	●				
Formic acid	●	●	●	●	●	●
Furane	■	■				
Furfural	▲	■	■	■		
Fuel oil (EL)	●	●	●	●		
Gallic acid	●	▲				
Gear oil ARAL Energol	●	●				

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Gear oil ARAL Montanol GM 220	●	●	●			
Gear oil BP Energol H-PC 220	●	●	●			
Gear oil Shell Tellusoil 32	●	●	●			
Gear oil Shell Tonna oil T 220	●	●	●			
Glucose	●	●	●	●	●	●
Glycerol	●	●	●	●	●	●
1, 2-Glycol	●	●	●	●	●	●
Glycolic acid (hydroxyacetic acid)	●	▲	■	■		
Heptane	●	●	●	●	●	●
Hexamethyldisilazan (HMDS)	●					
Hexane	●	●	●	●	●	●
Hydrazine UDMH 50/50	●	▲				
Hydriodic acid (48% + 12%J2)	●	●	●	●	●	●
Hydrogen	●	●	●	●	●	●
Hydrogen bromide	●	●	●	●		
Hydrogen cyanide	●	●	●	●	●	●
Hydrogen fluoride (35%)	●	●	●	●	●	●
Hydrogen fluoride (70%)	●	●	●	●		
Hydrogen fluoride (100%)	●	●	●	●		
Hydrogen peroxide (30%)	●	●	●	●	●	●
Hydrogen peroxide (90%)	●					
Hydrogen phosphide	●	●				
Hydrogen sulphide, wet	●	●	●	●	●	●
Hydrogen sulphide, anhydrous	●	●	●	●	●	●
Hypochlorous acid	●	●	●	●	●	●
Iodine, dry	●	●	●			
Iodine, wet	●	●	●			
Iodoform	●	●	●	●		
Isooctane	●	●	●	●	●	●
Jat propulsion fuel IP4 and IP5	●	●	●	●		
Kerosine	●	●	●	●	●	●
Lactic acid	●	▲	■	■		
Lauric acid	●	●	●	●		
Lauryl chloride	●	●	●	●		
Lead acetate	●	●	●	●	●	●
Lead tetraethyl	●	●	●	●	●	●
Linseed oil	●	●	●	●	●	●
Linoleic acid	●	●	●	●	●	●
Magnesium carbonate	●	●	●	●	●	●
Magnesium chloride	●	●	●	●	●	●
Magnesium hydroxide	●	●	●	●	●	●
Magnesium nitrate	●	●	●	●	●	●
Magnesium sulphate	●	●	●	●	●	●
Maleic acid	●	●	●	●	●	●
Mercury	●	●	●	●	●	●
Mercuric chloride	●	●	●	●	●	●
Mercuric cyanide	●	●	●	●	●	●
Mercuric nitrate	●	●	●	●	●	●
Methane	●	●	●	●	●	●
Methane sulfonic acid (50%)	●	●	●	●		
Methyl alcohol	●	●	●	●	●	●
Methyl bromide	●	●	●	●	●	●
Methyl chloride	●	●	●	●	●	●
Methylene chloride	▲	▲				
Methyl ethyl ketone	■	■	■	■		
Methyl isobutyl ketone	●	▲	■	■		
N-Methylpyrrolidone			■			
Milk	●	●	●	●		
Mineral Oil	●	●	●	●	●	●
Monoethanol amina	■	■				

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Morpholine	▲	■	■			
Naphtha	●	●	●	●	●	●
Naphthaline	●	●	●	▲		
Natriumbisulfat	●	●	●	●	●	●
Natural gas	●	●	●	●	●	●
Niacin (nicotinic acid)	●	●	●	●	●	●
Nickel chloride	●	●	●	●	●	●
Nickel nitrate	●	●	●	●	●	●
Nickel sulphate	●	●	●	●	●	●
Nicotine	●	▲	▲			
Nitrating acid	●	●	▲			
Nitric acid (15%/30%)	●	●	●	●		
Nitric acid (65%)	●	●	●			
Nitric acid (fuming)	▲	▲				
Nitrobenzone	●	▲	■			
Nitrogen dioxide	●	●	●	●		
Nitromethane	▲	■				
Nitrous acid	●	●	●	●		
Octane	●	●	●	●	●	●
Octene	●	●	●	●	●	●
Oil (triglyceride)	●	●	●	●		
Oleic acid	●	●	●	●	●	●
Oleum	■					
Oxalic acid	●	●	▲	■		
Oxygen	●	●	●	●	●	●
Ozone	●	●	●	●	●	●
Palmitic o. hexadacyclic acid	●	●	●	●	●	●
Paraldehyde	●	●	●			
Perchlorethylene	●	●	●	●	●	●
Perchloric acid (10%)	●	●	●	●		
Perchloric acid (72%)	●	●				
Petrol (Gasoline) (non-leaded)	●	●	●	●	●	●
Phenol (10%)	●	●	●	●		
Phenol (100%)	●	●	●	▲		
Phenylhydrazine	●	●				
Phosphorous pentoxide	●	●	●	●		
Phosphoric acid (30%)	●	●	●	●	●	●
Phosphoric acid (85%)	●	●	●	●	●	
Phosphorous chloride	●	●	●	●		
Phthalic acid	●	●	●	●		
Picric acid	●					
Potassium bromide/carbonate	●	●	●	●	●	●
Potassium chlorato/chloride	●	●	●	●	●	●
Potassium cyanide/dichromate	●	●	●	●	●	●
Potassium terrocyanide	●	●	●	●	●	●
Potassium hydroxide	●	●	●	●		
Potassium nitrate/permanganate	●	●	●	●	●	●
Potassium sulphate	●	●	●	●	●	●
Potassium sulphide	●	●	●	●	●	●
Propane	●	●	●	●	●	●
Propanol	●	●	▲	■		
Propylene carbonate			■			
Propylene oxida	■					
Pyridine	■	■	■			
Pyrogallic acid	●	●				
Salicylle acid	●	●	●	●		
Sea water	●	●	●	●	●	●
Silicon tetrachloride	●					
Silver cyanide	●	●	●	●	●	●
Silver nitrate	●	●	●	●	●	●

Chemicals	Temperature					
	20°C	50°C	70°C	100°C	110°C	120°C
Sodium acetate	●	●	●	●	●	●
Sodium benzoate	●	●	●	●	●	●
Sodium bicarbonate						
(Sodium nitrogen carbonate)	●	●	●	●	●	●
Sodium bisulphate						
(Sodium hydrogen sulphite)	●	●	●	●	●	●
Sodium bisulphite						
(Sodium hydrogen sulphate)	●	●	●	●	●	●
Sodium bromide	●	●	●	●	●	●
Sodium carbonate	●	●	●	●	●	●
Sodium carbonate (40%)	●	●	●			
Sodium chlorate	●	●	●	●	●	●
Sodium chloride	●	●	●	●	●	●
Sodium cyanide	●	●	●	●	●	●
Sodium hypochloride	●	●	●	●	●	●
Sodium nitrate	●	●	●	●	●	●
Sodium nitrite	●	●	●	●	●	●
Sodium peroxide	●	●	●	●	●	●
Sodium phosphate	●	●	●	●	●	●
Sodium silicate	●	●	●	●	●	●
Sodium sulphate	●	●	●	●	●	●
Sodium sulphide	●	●	●	●	●	●
Sodium sulphite	●	●	●	●	●	●
Sodium thiosulphate	●	●	●	●	●	●
Stearic acid	●	●	●	●	●	●
Sulphur	●	●	●	●	●	●
Sulphur chloride	●					
Sulphur dichloride	●					
Sulphur dioxide	●	●	●	●		
Sulphuric acid (50%)	●	●	●	●	●	
Sulphuric acid (60%)	●	●	●	●		
Sulphuric acid (80%)	●	●	●	●	●	▲
Sulphuric acid (95%)	●	●	▲	■		
Sulphuric acid (fuming/monohydrate)	■	■				
Sulphur trioxide	■	■				
Sulphurous acid	●	●	●	●		
Synthesis gas	●	●	●	●	●	●
Tall oil o. liquid rosin	●	●	●	●	●	●
Tetrachlorethylene	●	●	●	▲		
Tetrahydrofurane	▲	■				
Tetramethyl ammonium hydroxide (50%)	●	●	●	●		
Thionyl chloride	●	▲				
Titanium tetrachloride	●	●				
Toluol (toluene)	●	●	●	▲		
Tributyl phosphate	●	●	●	●		
Trichloroacetic acid	●	▲	■	■		
1.1.1-Trichloroethane	●	●	▲			
Trichloroethylene	●	●	●	●	●	●
Trichlorofluoromethane	●	●	●	●		
Triethyl amine	●	●	▲	■		
Urea (50%)	●	●	●	●	●	●
Vinyl acetate	●	●	●	●	●	●
Water	●	●	●	●	●	●
Xylol (xylene)	●	●	●			
Zin chloride	●	●	●	●	●	●
Zin chloride (50%)	●	●	●	●	●	●
Zin nitrate	●	●	●	●	●	●
Zin nitrate (50%)	●	●	●	●	●	●
Zin sulphate	●	●	●	●	●	●
Zin sulphate (50%)	●	●	●	●	●	●

Resistance to Chemicals / RectuPom

- = recommended
 ▲ = limited usage
 ■ = not recommended

weight increase < 3% or weight loss < 0,5% and/or decrease in tensile strength < 15%
 weight increase 3 - 8% or weight loss 0,5 - 3% and/or decrease in tensile strength 15 - 30%
 weight increase > 8% or weight loss > 3% and/or decrease in tensile strength > 30%

Chemicals	Temperature		Chemicals	Temperature		Chemicals	Temperature	
	20°C	60°C		20°C	60°C		20°C	60°C
Acetic acid (10%)	●	●	Fluorocarbons (partially halogenated)	■	■	Potassium hydroxide (caustic potash solution)	●	●
Acetic acid (80%)	▲	■	Fluorocarbons (perhalogenated)	●	●	Potassium permanganate (10%)*	●	●
Acetone	●	▲	Formaldehyde (40%)	●	●	refrigerant R 134 a (System Reclin)	●	●
Acetylene tetrabromide	▲	■	Formic acid (10%)*	●	■	Sea water (North sea)	●	●
Ammonia	●	●	Fuel oil EL	●	●	Sodium bicarbonate (10%)	●	●
Ammonium sulphate			Galbanum resin	●		Sodium bisulphite liquor (pH 4,5)	■	■
®Hoechst (10%) (pH 5,8)	●	■	®Genantin/tap water 1 : 1 (+1% ®Donax C, Shell)	●		Sodium carbonate (10%)	●	●
Benzene	▲	▲	Glacial acetic acid	▲	■	Sodium chloride	●	●
Benzene with 15 to 20% methanol	●	●	Glycerol	●	●	Sodium hydroxide (caustic soda solution)	●	●
Butanol	●	●	Glycol	●	●	Sodium hypochlorite (bleaching sol. about 12,5% active chlorine)	▲	■
Butyl acetate	●	▲	Glycol/distilled water 48 : 52	●	●	Sodium orthophosphate, monobasic (10%)	●	●
Buthyraldehyde	▲	▲	®Grison GBF 1 (5g to 100g H ₂ O)	●	●	Sodium orthophosphate, di-/tri-basic (10%)	●	●
Butyric acid (1%)*	●	●	Hydrochloric acid (10%)	■	■	Soya bean oil	●	●
Butyric acid (98%)	▲	▲	Hydrogen peroxide (30%)*	●	■	Sulphur dioxide gas	■	■
Calcium ammonium nitrate	●	●	Hydroxycitronellal	●	●	Sulphuric acid (10%)*	●	■
Calcium chloride (10%)	●	●	Ink (®Pelikan ink, blue-black)	●	■	Sulphuric acid (50%)	■	■
Calcium nitrate			Isopropyl alcohol	●	●	Tetrahydrofuran	▲	▲
®Hoechst (10%) (pH 6,4)	●	●	Jet fuel JP 1 + 4 (Shell)	●	●	®Tetralin (Henkel)	●	▲
Cananga oil	●	●	Lactic acid (10%)*	●	▲	Thiophene	▲	▲
Carbon disulphide	●	●	Lactic acid (90%)*	●	■	Toluene	●	●
Carbon tetrachloride	●	▲	Lavender oil, highest-quality	●	●	Transformer oil (®Univolt 36, Esso)	●	●
Chlorobenzene	▲	▲	Lemongrass oil	●	●	Trichloroethylene	▲	▲
Chloroform	■	■	Lime, chlorinated (approx. 10%)	■	■	Urine	●	●
Chromic acid (3%)	▲	▲	Methanol	●	●	Water, distilled	●	●
Citric acid (10%)	●	■	Methyl acetate	▲	▲	Xylene	●	●
®Clophen A 60 (Bayer)	●	●	Methyl bromide	■	■			
Coffee (®Nescafe)	●	●	Methyl ethyl ketone	▲	▲			
®Complezal Typ Blau 12 + 12 + 17 + 2 (10%, pH 5,8)	●	●	Methyl glycol	▲	▲			
®Complezal Typ Gelb 15 + 15 + 15 (10%, pH 5,8)	●	●	Methyl glycol acetate	▲	■			
®Complezal Typ NP 20 + 20 + 0 (10%, pH 5,7)	●	●	Methylene bromide	■	■			
®Complezal Typ Rot 13 + 13 + 21 (10%, pH 5,4)	●	●	Methylene chloride, technical	■	■			
Copper sulphate (10%)	●	●	Mineral oil	●	●			
Developer solution 1:100 (pH 10,4) (®Rodinal Agfa)	●	●	®Mobil oil SAE 20	●	●			
Developer solution 1:50 (pH 10,9) (®Rodinal Agfa)	●	●	Mobil oil HD SAE 20 after 3000 km	●	●			
Dibutyl phthalate	●	●	N-hexane	●	●			
Diesel oil	●	●	Natural gas	●	●			
Dimethyl phthalate	●	▲	Nickel sulphate (10%)	●	●			
Diocetyl sebacate	●	●	Nitric acid (10%)	■	■			
Dioxane	▲	▲	Nitrous gases	■	■			
Engine oil BP HP 20	●	●	Nitrous gases	■	■			
Engine oil SAE 40 (Caltrex)	●	●	Oil of cloves	●	●			
Ethanol (96%)	●	●	Olive oil	●	■			
Ether (DAB 6)	●	●	Ozone	■	■			
Ethyl acetat	▲	▲	Peat water (pH 3,7)	●	●			
Ethyl chloride (DAB 6)	●	▲	Perchloroethylene	●	■			
Ethyl glycol	●	▲	Petrol, standard-grade	●	●			
Ferric chloride (10%)	▲	■	Petrol/benzene mixture (super-grade petrol)	●	●			
			Petroleum	●	●			
			Petroleum fraction (boiling point 100-140°C)	●	●			
			Phenol	■	■			
			Phosphoric acid (25%)	●	■			

* Because of the acid or oxidizing nature of these chemicals, trials are recommended before prolonged contact with Rectus.

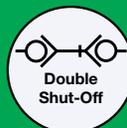
The results were obtained using injection-moulded, 1 mm thick test samples after a test duration of 60 days. During the test, the test samples were not under the influence of any external tension.

Media Chart O-Rings

- = little or no effect
- ▲ = weak to moderate effect
- = strong attack to complete destruction
- ◆ = no data available; probably suitable; test before use
- ✘ = no data available; probably not suitable

Media	Seals		
	NBR	FKM	EPDM
Acetone	■	■	●
Acetylene	●	●	●
Aero-engine oils JP 3/4/5/6	●	●	■
Ammonia, 100%	▲	■	●
Ammonium sulphate	●	●	●
Amyl acetate	■	■	●
Aniline	■	■	◆
Arsenic acid, aq.	●	●	●
Beer	●	●	●
Benzonic acid, aq.	●	●	●
Benzyl alcohol	◆	◆	✘
Black lye	▲	●	●
Borax, aq.	●	●	●
Boric acid, aq.	●	●	●
Brake fluids (glycol ether)	■	◆	●
Butadiene	●	●	■
Butane, gaseous	●	●	■
Butanol, aq.	●	▲	●
Butyl acetate	■	■	▲
Butyl alcohol	■	◆	●
Butyne diol	●	▲	●
Butyraldehyde	◆	◆	▲
Calcium nitrate, aq.	●	●	●
Calcium phosphate, aq.	●	●	●
Camphorated oil	●	▲	■
Carbon dioxide	●	●	●
Carbon dioxide, dry	●	●	●
Carbon disulphide	■	●	■
Carbon tetrachloride	■	●	■
Chloramine, aq.	●	◆	●
Chloride of lime, aq.	■	●	●
Chlorine	■	●	●
Chlorine water, saturated	■	●	●
Chromic acid, aq.	■	●	✘
Citric acid, aq.	●	●	●
Coconut fat	●	●	■
Coconut oil	●	●	■
Coking-oven gas	■	●	■
Crude oil	●	●	■
Cyclohexane	●	●	■
Cyclohexanol	●	◆	■
Desmophen 2000	●	✘	✘
Detergent, synthetic	●	●	●
Detergens	●	▲	●
Dextrin, aq.	●	●	●
Dichloroacetic acid	■	■	●
Diesel fuel	●	●	■
Diglycolic acid, aq.	▲	●	●
Dimethyl ether	■	■	●
Dimethylamine	■	■	●
Engine oils	●	●	■
Ethane	●	●	■
Ethyl acrylate	■	■	✘

	NBR	FKM	EPDM
Ethyl benzene	■	▲	■
Ethyl chloride	▲	▲	▲
Ethylene chloride	▲	▲	▲
Ethylene diamine	■	■	●
Ethylene glycol	●	●	●
Fatty acids	▲	●	◆
Fluorosilicic acid, aq.	●	●	●
Fish oil	●	●	▲
Formaldehyde, aq.	▲	◆	●
Formamide	■	▲	●
Gas oil	●	●	■
Glucose, aq.	●	●	●
Glycerol, aq.	●	●	●
Glycol, aq.	●	●	●
Glycolic acid, aq. 37%	●	●	●
Heptane	●	●	■
Hexachlorobutadiene	■	●	◆
Hexane	●	●	■
Hydrochloric acid	▲	●	●
Hydrogen	●	●	●
Hydrogen chloride gas	■	●	●
Hydrogen sulphide, dry aqueous	▲	●	●
Hydrosulphite, aq.	▲	◆	●
Isooctane	●	●	■
Isopropyl alcohol	▲	▲	●
Lactic acid, aq.	●	●	●
Lavender oil	▲	●	◆
Lead acetat, aq.	●	●	●
Lithium bromide, aq.	●	●	●
Machine oil, mineral	●	●	■
Magnesium sulphate, aq.	●	●	●
Mercury salts, aq.	●	●	●
Methane	●	●	▲
Methyl alcohol	▲	■	●
Mineral oil	●	●	■
Mustard gas	●	◆	●
Nitrogen tetroxide	◆	◆	■
Nitrogen	●	●	●
Nitroglycol, aq.	■	●	●
Octane	✘	●	◆
Oleic acid	●	●	■
Paraffin/Paraffin oil	●	●	■
Petrol	●	●	■
Petroleum	●	●	■
Propylene glycol	●	●	●
Sea water	●	●	●
Silicone grease/Silicone oil	●	●	●
Soda, aq.	●	●	●
Sodium chlorate	■	●	●
Sodium chloride	●	●	●
Sodium nitrate, aq.	●	●	●
Sodium phosphate, aq.	●	●	●
Steam	▲	●	●
Styrene	■	▲	■
Sulphur	◆	●	●
Sulphur trioxide	◆	●	▲
Sulphuric acid	▲	●	●
Sulphuryl chloride	■	●	▲
Tartaric acid, aq.	●	●	●
Titanium tetrachloride	●	▲	●
Town gas, benzene-free	●	●	■



Nominal Diameter

5 = 20 mm²

RECTUS Series

21KB

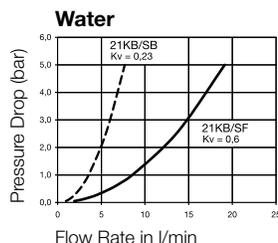
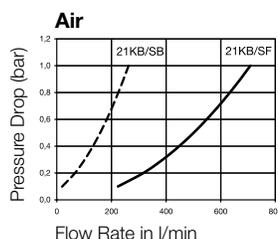
actual size



Technical Description

Mini industrial coupling made of POM and PVDF with the world's most commonly used profile. Above average flow performance for liquid and gaseous media. A new type of locking system made of thermoplastic with a non-slip sleeve considerably expands the application possibilities of this small quick connect coupling.

Chart



You will find the following alternative versions in our current catalogue on page:

- ▶ Stainless Steel Single shut-off P. 185
- ▶ Stainless Steel Double shut-off P. 205
- ▶ Brass/Steel P. 34
- ▶ Safety P. 266
- ▶ Coded Systems P. 300

Advantages

Single handed operation. Two different sleeve designs. The coupling is fitted with a double shut-off valve which enables it to be connected to a single shut-off (non-valved) plug as well as a double shut-off (valved) plug. The coupling is also available as a straight-through coupling (without a valve). The 21 series eliminates the danger of mix-ups by color coding of the coupling and the respective plug. This system guarantees the elimination of mix-ups when media are connected.

Working Pressure

PB = 10 bar (POM, 20°C)
PB = 8 bar (PVDF, 20°C)
maximum static working pressure with safety factor of 4 to 1.

Working Temperature

-20°C up to +80°C (POM)
-20°C up to +120 (PVDF)
depending on the medium.

Material

Coupling

Valve Body
Sleeve
Valve
Spring
Locking System
Seals
Back Body

RectuPom Standard

POM, black
POM, black
POM, black
AISI 301
POM, black
NBR
POM, black

RectuChem Standard

PVDF, white
PVDF, white
PVDF, white
AISI 316 Ti
PVDF, white
FKM
PVDF, white

Plug

Plug Profile
Valve
Spring
Adapter
Seal

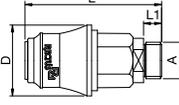
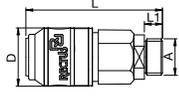
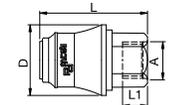
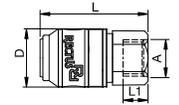
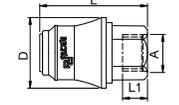
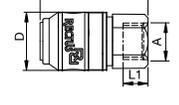
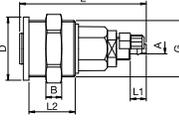
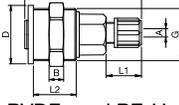
POM, black
POM, black
AISI 301
POM, black
NBR

PVDF, white
PVDF, white
1.4571
PVDF, white
FKM

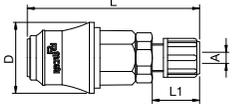
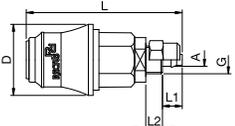
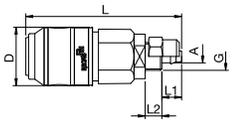
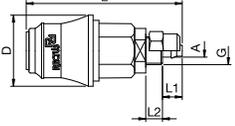
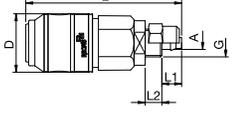
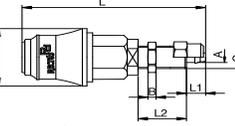
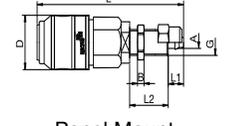
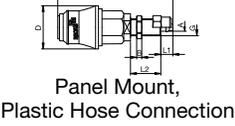
Couplings

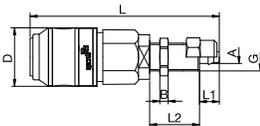
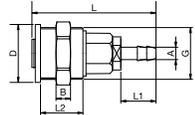
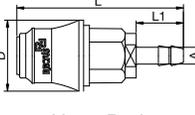
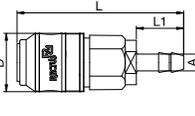
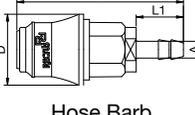
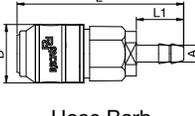
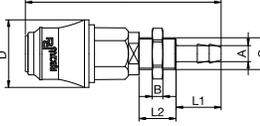
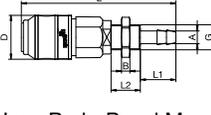
RECTUS Series 21KB

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
Ergonomical Sleeve	G 1/8 o.	17	50	25,5	7					Standard	21KB AW10 DPX	21KB AW10 FXV
Male Thread												
Straight Sleeve	G 1/8 o.	17	50	21	7					Standard	21KB AW10 DPXG	21KB AW10 FXVG
										blue	21KB AW10 DPXGB	21KB AW10 FXVGB
Male Thread										green	21KB AW10 DPXGG	21KB AW10 FXVGG
										red	21KB AW10 DPXGR	21KB AW10 FXVGR
										yellow	21KB AW10 DPXGY	21KB AW10 FXVGY

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
Ergonomical Sleeve	G 1/4 o.	17	50	25,5	7					Standard	21KB AW13 DPX	21KB AW13 FVX
												
Male Thread												
Straight Sleeve	G 1/4 o.	17	50	21	7					Standard	21KB AW13 DPXG	21KB AW13 FVXG
										blue	21KB AW13 DPXGB	21KB AW13 FVXGB
Male Thread										green	21KB AW13 DPXGG	21KB AW13 FVXGG
										red	21KB AW13 DPXGR	21KB AW13 FVXGR
										yellow	21KB AW13 DPXGY	21KB AW13 FVXGY
Ergonomical Sleeve	G 1/8 i.	17	53	25,5	8					Standard	21KB IW10 DPX	21KB IW10 FVX
												
Female Thread												
Straight Sleeve	G 1/8 i.	17	53	21	8					Standard	21KB IW10 DPXG	21KB IW10 FVXG
										blue	21KB IW10 DPXGB	21KB IW10 FVXGB
Female Thread										green	21KB IW10 DPXGG	21KB IW10 FVXGG
										red	21KB IW10 DPXGR	21KB IW10 FVXGR
										yellow	21KB IW10 DPXGY	21KB IW10 FVXGY
Ergonomical Sleeve	G 1/4 i.	17	39	25,5	9					Standard	21KB IW13 DPX	21KB IW13 FVX
												
Female Thread												
Straight Sleeve	G 1/4 i.	17	39	21	9					Standard	21KB IW13 DPXG	21KB IW13 FVXG
										blue	21KB IW13 DPXGB	21KB IW13 FVXGB
Female Thread										green	21KB IW13 DPXGG	21KB IW13 FVXGG
										red	21KB IW13 DPXGR	21KB IW13 FVXGR
										yellow	21KB IW13 DPXGY	21KB IW13 FVXGY
for Front Panel Installation	4 x 6 mm	17	56	28	7	20,5	27	7	M 25 x 1	Standard	21KB KE06 DPX	21KB KE06 FVX
	6 x 8 mm	17	56	28	7	20,5	27	7	M 25 x 1	Standard	21KB KE08 DPX	21KB KE08 FVX
Panel Mount, Plastic Hose Connection												
for Front Panel Installation	4 x 6 mm	17	62	28	7	20,5	27	7	M 25 x 1	Standard		21KB FR06 FVX
	6 x 8 mm	17	66	28	7	20,5	27	7	M 25 x 1	Standard		21KB FR08 FVX
for PVDF- and PE-Hoses												

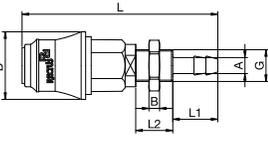
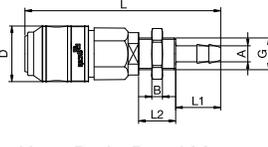
Couplings RECTUS Series 21KB

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
Ergonomical Sleeve	4 x 6 mm	17	62	25,5	17				M 10 x 1	Standard		21KB KP06 FVX
	6 x 8 mm	17	66	25,5	17				M 12 x 1	Standard		21KB KP08 FVX
												
for PVDF- and PE-Hoses												
Ergonomical Sleeve	4 x 6 mm	17	56	25,5	6	7			M 10 x 1	Standard	21KB KO06 DPX	21KB KO06 FVX
												
Plastic Hose Connection												
Straight Sleeve	4 x 6 mm	17	56	21	6	7			M 10 x 1	Standard	21KB KO06 DPXG	21KB KO06 FVXG
												
Plastic Hose Connection											21KB KO06 DPXGB	21KB KO06 FVXGB
											21KB KO06 DPXGG	21KB KO06 FVXGG
											21KB KO06 DPXGR	21KB KO06 FVXGR
											21KB KO06 DPXGY	21KB KO06 FVXGY
Ergonomical Sleeve	6 x 8 mm	17	56	21/25,5	6	7			M 12 x 1	Standard	21KB KO08 DPX	21KB KO08 FVX
												
Plastic Hose Connection												
Straight Sleeve	6 x 8 mm	17	56	21	6	7			M 12 x 1	Standard	21KB KO08 DPXG	21KB KO08 FVXG
												
Plastic Hose Connection										blue	21KB KO08 DPXGB	21KB KO08 FVXGB
										green	21KB KO08 DPXGG	21KB KO08 FVXGG
										red	21KB KO08 DPXGR	21KB KO08 FVXGR
										yellow	21KB KO08 DPXGY	21KB KO08 FVXGY
Ergonomical Sleeve	4 x 6 mm	17	68	25,5	7	18	14	4	M 10 x 1	Standard	21KB KS06 DPX	21KB KS06 FVX
												
Panel Mount, Plastic Hose Connection												
Straight Sleeve	4 x 6 mm	17	68	21	7	18	14	4	M 10 x 1	Standard	21KB KS06 DPXG	21KB KS06 FVXG
												
Panel Mount, Plastic Hose Connection										blue	21KB KS06 DPXGB	21KB KS06 FVXGB
										green	21KB KS06 DPXGG	21KB KS06 FVXGG
										red	21KB KS06 DPXGR	21KB KS06 FVXGR
										yellow	21KB KS06 DPXGY	21KB KS06 FVXGY
Ergonomical Sleeve	6 x 8 mm	17	68	25,5	7	18	17	4	M 12 x 1	Standard	21KB KS08 DPX	21KB KS08 FVX
												
Panel Mount, Plastic Hose Connection												

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
 Panel Mount, Plastic Hose Connection for Front Panel Installation	6 x 8 mm	17	68	21	7	18	17	4	M 12 x 1	Standard	21KB KS08 DPXG	21KB KS08 FVXG
										blue	21KB KS08 DPXGB	21KB KS08 FVXGB
										green	21KB KS08 DPXGG	21KB KS08 FVXGG
										red	21KB KS08 DPXGR	21KB KS08 FVXGR
										yellow	21KB KS08 DPXGY	21KB KS08 FVXGY
 Hose Barb	4 mm	17	60	28	17	20,5	27	7	M 25 x 1	Standard	21KB TE04 DPX	21KB TE04 FVX
	6 mm	17	60	28	17	20,5	27	7	M 25 x 1	Standard	21KB TE06 DPX	21KB TE06 FVX
 Hose Barb	4 mm	17	60	25,5	17					Standard	21KB TF04 DPX	21KB TF04 FVX
 Hose Barb	4 mm	17	60	21	17					Standard	21KB TF04 DPXG	21KB TF04 FVXG
										blue	21KB TF04 DPXGB	21KB TF04 FVXGB
										green	21KB TF04 DPXGG	21KB TF04 FVXGG
										red	21KB TF04 DPXGR	21KB TF04 FVXGR
										yellow	21KB TF04 DPXGY	21KB TF04 FVXGY
 Hose Barb	6 mm	17	60	25,5	17					Standard	21KB TF06 DPX	21KB TF06 FVX
 Hose Barb	6 mm	17	60	21	17					Standard	21KB TF06 DPXG	21KB TF06 FVXG
										blue	21KB TF06 DPXGB	21KB TF06 FVXGB
										green	21KB TF06 DPXGG	21KB TF06 FVXGG
										red	21KB TF06 DPXGR	21KB TF06 FVXGR
										yellow	21KB TF06 DPXGY	21KB TF06 FVXGY
 Hose Barb, Panel Mount	4 mm	17	74	25,5	17	14	14	4	M 10 x 1	Standard	21KB TS04 DPX	21KB TS04 FVX
 Hose Barb, Panel Mount	4 mm	17	74	21	17	14	14	4	M 10 x 1	Standard	21KB TS04 DPXG	21KB TS04 FVXG
										blue	21KB TS04 DPXGB	21KB TS04 FVXGB
										green	21KB TS04 DPXGG	21KB TS04 FVXGG
										red	21KB TS04 DPXGR	21KB TS04 FVXGR
										yellow	21KB TS04 DPXGY	21KB TS04 FVXGY

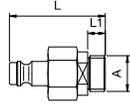
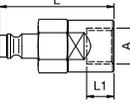
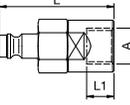
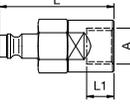
Couplings

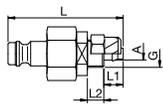
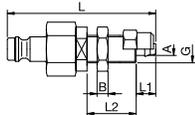
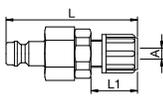
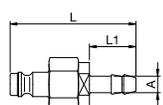
RECTUS Series 21KB

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number
Ergonomical Sleeve	6 mm	17	74	25,5	17	14	14	4	M 10 x 1	Standard	21KB TS06 DPX	21KB TS06 FVX
												
Hose Barb, Panel Mount												
Straight Sleeve	6 mm	17	74	21	17	14	17	4	M 12 x 1	Standard	21KB TS06 DPXG	21KB TS06 FVXG
										blue	21KB TS06 DPXGB	21KB TS06 FVXGB
										green	21KB TS06 DPXGG	21KB TS06 FVXGG
										red	21KB TS06 DPXGR	21KB TS06 FVXGR
										yellow	21KB TS06 DPXGY	21KB TS06 FVXGY
Hose Barb, Panel Mount												

Valved Plugs

RECTUS Series 21SB

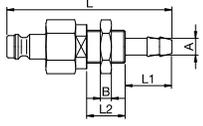
	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number
 Male Thread	G 1/8 o.	17	36		7					Standard	21SB AW10 DPX	21SB AW10 FVX
										blue	21SB AW10 DPXB	21SB AW10 FVXB
										green	21SB AW10 DPXG	21SB AW10 FVXG
										red	21SB AW10 DPXR	21SB AW10 FVXR
										yellow	21SB AW10 DPXY	21SB AW10 FVXY
 Female Thread	G 1/4 o.	17	38		7					Standard	21SB AW13 DPX	21SB AW13 FVX
										blue	21SB AW13 DPXB	21SB AW13 FVXB
										green	21SB AW13 DPXG	21SB AW13 FVXG
										red	21SB AW13 DPXR	21SB AW13 FVXR
										yellow	21SB AW13 DPXY	21SB AW13 FVXY
 Female Thread	G 1/8 i.	17	39		8					Standard	21SB IW10 DPX	21SB IW10 FVX
										blue	21SB IW10 DPXB	21SB IW10 FVXB
										green	21SB IW10 DPXG	21SB IW10 FVXG
										red	21SB IW10 DPXR	21SB IW10 FVXR
										yellow	21SB IW10 DPXY	21SB IW10 FVXY
 Female Thread	G 1/4 i.	17	42		10					Standard	21SB IW13 DPX	21SB IW13 FVX
										blue	21SB IW13 DPXB	21SB IW13 FVXB
										green	21SB IW13 DPXG	21SB IW13 FVXG
										red	21SB IW13 DPXR	21SB IW13 FVXR
										yellow	21SB IW13 DPXY	21SB IW13 FVXY

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	
 <p>Plastic Hose Connection</p>	4 x 6 mm	17	42	7	6					Standard	21SB KO06 DPX	21SB KO06 FVX	
										blue	21SB KO06 DPXB	21SB KO06 FVXB	
										green	21SB KO06 DPXG	21SB KO06 FVXG	
										red	21SB KO06 DPXR	21SB KO06 FVXR	
										yellow	21SB KO06 DPXY	21SB KO06 FVXY	
	6 x 8 mm	17	42	7	6						Standard	21SB KO08 DPX	21SB KO08 FVX
											blue	21SB KO08 DPXB	21SB KO08 FVXB
											green	21SB KO08 DPXG	21SB KO08 FVXG
											red	21SB KO08 DPXR	21SB KO08 FVXR
											yellow	21SB KO08 DPXY	21SB KO08 FVXY
 <p>Panel Mount, Plastic Hose Connection</p>	4 x 6 mm	17	54	7	18	14	4	M 10 x 1		Standard	21SB KS06 DPX	21SB KS06 FVX	
										blue	21SB KS06 DPXB	21SB KS06 FVXB	
										green	21SB KS06 DPXG	21SB KS06 FVXG	
										red	21SB KS06 DPXR	21SB KS06 FVXR	
										yellow	21SB KS06 DPXY	21SB KS06 FVXY	
	6 x 8 mm	17	54	7	18	17	4	M 12 x 1			Standard	21SB KS08 DPX	21SB KS08 FVX
											blue	21SB KS08 DPXB	21SB KS08 FVXB
											green	21SB KS08 DPXG	21SB KS08 FVXG
											red	21SB KS08 DPXR	21SB KS08 FVXR
											yellow	21SB KS08 DPXY	21SB KS08 FVXY
 <p>Panel Mount, for PVDF- and PE-Hoses</p>	4 x 6 mm	17	48	28						Standard		21SB KP06 FVX	
										blue		21SB KP06 FVXB	
										green		21SB KP06 FVXG	
										red		21SB KP06 FVXR	
										yellow		21SB KP06 FVXY	
	6 x 8 mm	17	52	28							Standard		21SB KP08 FVX
											blue		21SB KP08 FVXB
											green		21SB KP08 FVXG
											red		21SB KP08 FVXR
											yellow		21SB KP08 FVXY
 <p>Hose Barb</p>	4 mm	17	46	17						Standard	21SB TF04 DPX	21SB TF04 FVX	
										blue	21SB TF04 DPXB	21SB TF04 FVXB	
										green	21SB TF04 DPXG	21SB TF04 FVXG	
										red	21SB TF04 DPXR	21SB TF04 FVXR	
										yellow	21SB TF04 DPXY	21SB TF04 FVXY	
	6 mm	17	46	17							Standard	21SB TF06 DPX	21SB TF06 FVX
											blue	21SB TF06 DPXB	21SB TF06 FVXB
											green	21SB TF06 DPXG	21SB TF06 FVXG
											red	21SB TF06 DPXR	21SB TF06 FVXR
											yellow	21SB TF06 DPXY	21SB TF06 FVXY

Valved Plugs

RECTUS Series 21SB

Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number
4 mm	17	60		7	14	14	4	M 10 x 1	Standard	21SB TS04 DPX	21SB TS04 FVX
									blue	21SB TS04 DPXB	21SB TS04 FVXB
									green	21SB TS04 DPXG	21SB TS04 FVXG
									red	21SB TS04 DPXR	21SB TS04 FVXR
									yellow	21SB TS04 DPXY	21SB TS04 FVXY
6 mm	17	60		7	14	17	4	M 12 x 1	Standard	21SB TS06 DPX	21SB TS06 FVX
									blue	21SB TS06 DPXB	21SB TS06 FVXB
									green	21SB TS06 DPXG	21SB TS06 FVXG
									red	21SB TS06 DPXR	21SB TS06 FVXR
									yellow	21SB TS06 DPXY	21SB TS06 FVXY

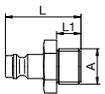


Panel Mount, Hose Barb

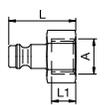
Plugs

RECTUS Series 21SF

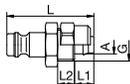
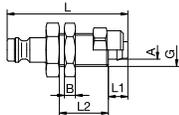
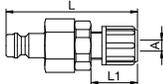
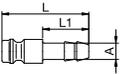
Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number
G 1/8 o.	14	25		7					Standard	21SF AW10 DXX	21SF AW10 FXX
									blue	21SF AW10 DPXB	21SF AW10 FVXB
									green	21SF AW10 DPXG	21SF AW10 FVXG
									red	21SF AW10 DPXR	21SF AW10 FVXR
									yellow	21SF AW10 DPXY	21SF AW10 FVXY
G 1/4 o.	17	28		9					Standard	21SF AW13 DXX	21SF AW13 FXX
									blue	21SF AW13 DPXB	21SF AW13 FVXB
									green	21SF AW13 DPXG	21SF AW13 FVXG
									red	21SF AW13 DPXR	21SF AW13 FVXR
									yellow	21SF AW13 DPXY	21SF AW13 FVXY
G 1/8 i.	14	24		8					Standard	21SF IW10 DXX	21SF IW10 FXX
									blue	21SF IW10 DPXB	21SF IW10 FVXB
									green	21SF IW10 DPXG	21SF IW10 FVXG
									red	21SF IW10 DPXR	21SF IW10 FVXR
									yellow	21SF IW10 DPXY	21SF IW10 FVXY
G 1/4 i.	17	25		9					Standard	21SF IW13 DXX	21SF IW13 FXX
									blue	21SF IW13 DPXB	21SF IW13 FVXB
									green	21SF IW13 DPXG	21SF IW13 FVXG
									red	21SF IW13 DPXR	21SF IW13 FVXR
									yellow	21SF IW13 DPXY	21SF IW13 FVXY



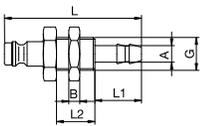
Male Thread

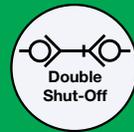


Female Thread

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	
 <p>Plastic Hose Connection</p>	4 x 6 mm	14	32	7	6				M 10 x 1	Standard	21SF KO06 DX	21SF KO06 FX	
										blue	21SF KO06 DPXB	21SF KO06 FVXB	
										green	21SF KO06 DPXG	21SF KO06 FVXG	
										red	21SF KO06 DPXR	21SF KO06 FVXR	
										yellow	21SF KO06 DPXY	21SF KO06 FVXY	
	6 x 8 mm	14	32	7	6					M 12 x 1	Standard	21SF KO08 DX	21SF KO08 FX
											blue	21SF KO08 DPXB	21SF KO08 FVXB
											green	21SF KO08 DPXG	21SF KO08 FVXG
											red	21SF KO08 DPXR	21SF KO08 FVXR
											yellow	21SF KO08 DPXY	21SF KO08 FVXY
 <p>Panel Mount, for Plastic Hose Connection</p>	4 x 6 mm	14	44	7	18	14	4		M 10 x 1	Standard	21SF KS06 DX	21SF KS06 FX	
										blue	21SF KS06 DPXB	21SF KS06 FVXB	
										green	21SF KS06 DPXG	21SF KS06 FVXG	
										red	21SF KS06 DPXR	21SF KS06 FVXR	
										yellow	21SF KS06 DPXY	21SF KS06 FVXY	
	6 x 8 mm	14	44	7	18	14	4			M 12 x 1	Standard	21SF KS08 DX	21SF KS08 FX
											blue	21SF KS08 DPXB	21SF KS08 FVXB
											green	21SF KS08 DPXG	21SF KS08 FVXG
											red	21SF KS08 DPXR	21SF KS08 FVXR
											yellow	21SF KS08 DPXY	21SF KS08 FVXY
 <p>Panel Mount for PVDF- and PE-Hoses</p>	4 x 6 mm	17	48	28						Standard		21SF KP06 FV	
										blue		21SF KP06 FVXB	
										green		21SF KP06 FVXG	
										red		21SF KP06 FVXR	
										yellow		21SF KP06 FVXY	
	6 x 8 mm	17	52	28							Standard		21SF KP08 FV
											blue		21SF KP08 FVXB
											green		21SF KP08 FVXG
											red		21SF KP08 FVXR
											yellow		21SF KP08 FVXY
 <p>Hose Barb</p>	4 mm		32	17						Standard	21SF TF04 DX	21SF TF04 FX	
										blue	21SF TF04 DPXB	21SF TF04 FVXB	
										green	21SF TF04 DPXG	21SF TF04 FVXG	
										red	21SF TF04 DPXR	21SF TF04 FVXR	
										yellow	21SF TF04 DPXY	21SF TF04 FVXY	
	6 mm		32	17							Standard	21SF TF06 DX	21SF TF06 FX
											blue	21SF TF06 DPXB	21SF TF06 FVXB
											green	21SF TF06 DPXG	21SF TF06 FVXG
											red	21SF TF06 DPXR	21SF TF06 FVXR
											yellow	21SF TF06 DPXY	21SF TF06 FVXY

Plugs **RECTUS Series 21SF**

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number
 <p>Panel Mount Hose Barb</p>	4 mm	14	50		17	14	14	4	M 10 x 1	Standard	21SF TS04 DXX	21SF TS04 FXX
										blue	21SF TS04 DPXB	21SF TS04 FVXB
										green	21SF TS04 DPXG	21SF TS04 FVXG
										red	21SF TS04 DPXR	21SF TS04 FVXR
										yellow	21SF TS04 DPXY	21SF TS04 FVXY
	6 mm	14	50		17	14	17	4	M 12 x 1	Standard	21SF TS06 DXX	21SF TS06 FXX
										blue	21SF TS06 DPXB	21SF TS06 FVXB
										green	21SF TS06 DPXG	21SF TS06 FVXG
										red	21SF TS06 DPXR	21SF TS06 FVXR
										yellow	21SF TS06 DPXY	21SF TS06 FVXY



Technical Description

The 48 series coupling system made of POM and PVDF has been developed for use in the medical, chemical, food handling, pharmaceutical and laboratory technology industries. The coupling is also available in a completely thermoplastic version (RectuChem+). Here the metal springs are replaced by springs made of PEEK, an extremely resistant synthetic material.

Advantages

Single handed operation.
No mix up due to our color coded sleeves and plugs.
The coupling is fitted with a double shut-off valve which enables it to be connected to a single shut-off (non-valved) plug as well as a double shut-off (i.e. plug with valve). The coupling is also available as a straight through coupling.

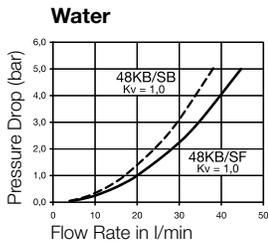
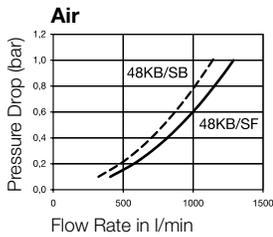
Working Pressure

PB = 0 - 10 bar (POM, at 20°C)
PB = 0 - 8 bar (PVDF, springs made of steel)
PB = 1 - 8 bar (PVDF, springs made of PEEK),
maximum static working pressure with safety factor of 4 to 1.

Working Temperature

-20°C up to +80°C (POM)
-20°C up to +120 (PVDF)
depending on the medium.

Chart



Material

Coupling

	RectuPom	RectuChem	RectuChem+
Valve Body	POM, black	PVDF, white	PVDF, white
Sleeve	POM, black	PVDF, white	PVDF, white
Valve	POM, black	PVDF, white	PVDF, white
Springs	AISI 316 Ti	AISI 316 Ti	PEEK 450G
Locking System	POM, black	PVDF, white	PEEK 450G
Seals	NBR	FKM	FKM
Back Body	POM, black	PVDF, white	PVDF, white

Plug

	RectuPom	RectuChem	RectuChem+
Plug Profile	POM, black	PVDF, white	PVDF, white
Valve	POM, black	PVDF, white	PVDF, white
Spring	AISI 316 Ti	AISI 316 Ti	PEEK 450G
Adapter	POM, black	PVDF, white	PVDF, white
Seal	NBR	FKM	FKM

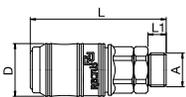
75% of actual size



Couplings

RECTUS Series 48KB

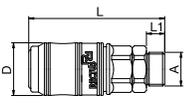
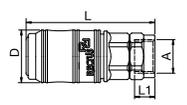
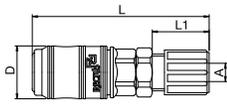
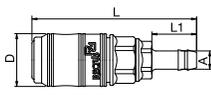
Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number
G 1/4 o.	21	70,5	26	9					Standard	48KB AW13 DPX	48KB AW13 FVX	48KB AW13 FVP
									blue	48KB AW13 DPXB	48KB AW13 FVXB	48KB AW13 FVPB
									green	48KB AW13 DPXG	48KB AW13 FVXG	48KB AW13 FVPG
									red	48KB AW13 DPXR	48KB AW13 FVXR	48KB AW13 FVPR
									yellow	48KB AW13 DPXY	48KB AW13 FVXY	48KB AW13 FVPY
G 3/8 o.	21	67	26	9					Standard	48KB AW17 DPX	48KB AW17 FVX	48KB AW17 FVP
									blue	48KB AW17 DPXB	48KB AW17 FVXB	48KB AW17 FVPB
									green	48KB AW17 DPXG	48KB AW17 FVXG	48KB AW17 FVPG
									red	48KB AW17 DPXR	48KB AW17 FVXR	48KB AW17 FVPR
									yellow	48KB AW17 DPXY	48KB AW17 FVXY	48KB AW17 FVPY

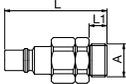
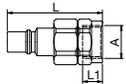
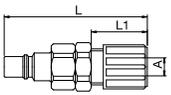


Male Thread

Couplings

RECTUS Series 48KB

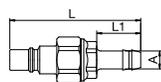
	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color Sleeve	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number	
 <p>Male Thread</p>	G 1/2 o.	21	73,5	26	12					Standard	48KB AW21 DPX	48KB AW21 FVX	48KB AW21 FVP	
										blue	48KB AW21 DPXB	48KB AW21 FVXB	48KB AW21 FVPB	
										green	48KB AW21 DPXG	48KB AW21 FVXG	48KB AW21 FVPG	
										red	48KB AW21 DPXR	48KB AW21 FVXR	48KB AW21 FVPR	
										yellow	48KB AW21 DPXY	48KB AW21 FVXY	48KB AW21 FVPY	
 <p>Female Thread</p>	G 1/4 i.	21	63,5	26	10					Standard	48KB IW13 DPX	48KB IW13 FVX	48KB IW13 FVP	
	G 3/8 i.	21	63,5	26	13					Standard	48KB IW17 DPX	48KB IW17 FVX	48KB IW17 FVP	
										blue	48KB IW17 DPXB	48KB IW17 FVXB	48KB IW17 FVPB	
										green	48KB IW17 DPXG	48KB IW17 FVXG	48KB IW17 FVPG	
										red	48KB IW17 DPXR	48KB IW17 FVXR	48KB IW17 FVPR	
	G 1/2 i.	21	74,5	26	13					Standard	48KB IW21 DPX	48KB IW21 FVX	48KB IW21 FVP	
										blue	48KB IW21 DPXB	48KB IW21 FVXB	48KB IW21 FVPB	
										green	48KB IW21 DPXG	48KB IW21 FVXG	48KB IW21 FVPG	
										red	48KB IW21 DPXR	48KB IW21 FVXR	48KB IW21 FVPR	
	 <p>for PVDF- and PE-Hoses</p>	6 x 8 mm	21	80	26	21					Standard		48KB KP08 FVX	48KB KP08 FVP
		9 x 12 mm	21	87	26	28					Standard		48KB KP12 FVX	48KB KP12 FVP
		10 x 12 mm	21	87	26	28					Standard		48KB KP12 FVXS	48KB KP12 FVPS
		6 mm	21	81	26	22						Standard	48KB TF06 DPX	48KB TF06 FVX
blue												48KB TF06 DPXB	48KB TF06 FVXB	48KB TF06 FVPB
green	48KB TF06 DPXG											48KB TF06 FVXG	48KB TF06 FVPG	
red	48KB TF06 DPXR											48KB TF06 FVXR	48KB TF06 FVPR	
yellow	48KB TF06 DPXY											48KB TF06 FVXY	48KB TF06 FVPY	
 <p>Hose Barb</p>	9 mm	21	81	26	22					Standard	48KB TF09 DPX	48KB TF09 FVX	48KB TF09 FVP	
										blue	48KB TF09 DPXB	48KB TF09 FVXB	48KB TF09 FVPB	
										green	48KB TF09 DPXG	48KB TF09 FVXG	48KB TF09 FVPG	
										red	48KB TF09 DPXR	48KB TF09 FVXR	48KB TF09 FVPR	
										yellow	48KB TF09 DPXY	48KB TF09 FVXY	48KB TF09 FVPY	
13 mm	21	84	26	25						Standard	48KB TF13 DPX	48KB TF13 FVX	48KB TF13 FVP	
										blue	48KB TF13 DPXB	48KB TF13 FVXB	48KB TF13 FVPB	
										green	48KB TF13 DPXG	48KB TF13 FVXG	48KB TF13 FVPG	
										red	48KB TF13 DPXR	48KB TF13 FVXR	48KB TF13 FVPR	
										yellow	48KB TF13 DPXY	48KB TF13 FVXY	48KB TF13 FVPY	

Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number	
 <p>Male Thread</p>	G 1/4 o.	21	55	9					Standard	48SB AW13 DPX	48SB AW13 FVX	48SB AW13 FVP	
									blue	48SB AW13 DPXB	48SB AW13 FVXB	48SB AW13 FVPB	
									green	48SB AW13 DPXG	48SB AW13 FVXG	48SB AW13 FVPG	
									red	48SB AW13 DPXR	48SB AW13 FVXR	48SB AW13 FVPR	
									yellow	48SB AW13 DPXY	48SB AW13 FVXY	48SB AW13 FVPY	
	G 3/8 o.	21	51,5	9						Standard	48SB AW17 DPX	48SB AW17 FVX	48SB AW17 FVP
										blue	48SB AW17 DPXB	48SB AW17 FVXB	48SB AW17 FVPB
										green	48SB AW17 DPXG	48SB AW17 FVXG	48SB AW17 FVPG
										red	48SB AW17 DPXR	48SB AW17 FVXR	48SB AW17 FVPR
										yellow	48SB AW17 DPXY	48SB AW17 FVXY	48SB AW17 FVPY
	G 1/2 o.	21	58	12						Standard	48SB AW21 DPX	48SB AW21 FVX	48SB AW21 FVP
										blue	48SB AW21 DPXB	48SB AW21 FVXB	48SB AW21 FVPB
										green	48SB AW21 DPXG	48SB AW21 FVXG	48SB AW21 FVPG
										red	48SB AW21 DPXR	48SB AW21 FVXR	48SB AW21 FVPR
										yellow	48SB AW21 DPXY	48SB AW21 FVXY	48SB AW21 FVPY
	 <p>Female Thread</p>	G 1/4 i.	21	48	10					Standard	48SB IW13 DPX	48SB IW13 FVX	48SB IW13 FVP
blue										48SB IW13 DPXB	48SB IW13 FVXB	48SB IW13 FVPB	
green										48SB IW13 DPXG	48SB IW13 FVXG	48SB IW13 FVPG	
red										48SB IW13 DPXR	48SB IW13 FVXR	48SB IW13 FVPR	
yellow										48SB IW13 DPXY	48SB IW13 FVXY	48SB IW13 FVPY	
G 3/8 i.		21	48	10						Standard	48SB IW17 DPX	48SB IW17 FVX	48SB IW17 FVP
										blue	48SB IW17 DPXB	48SB IW17 FVXB	48SB IW17 FVPB
										green	48SB IW17 DPXG	48SB IW17 FVXG	48SB IW17 FVPG
										red	48SB IW17 DPXR	48SB IW17 FVXR	48SB IW17 FVPR
										yellow	48SB IW17 DPXY	48SB IW17 FVXY	48SB IW17 FVPY
G 1/2 i.		21	59	13						Standard	48SB IW21 DPX	48SB IW21 FVX	48SB IW21 FVP
										blue	48SB IW21 DPXB	48SB IW21 FVXB	48SB IW21 FVPB
										green	48SB IW21 DPXG	48SB IW21 FVXG	48SB IW21 FVPG
										red	48SB IW21 DPXR	48SB IW21 FVXR	48SB IW21 FVPR
										yellow	48SB IW21 DPXY	48SB IW21 FVXY	48SB IW21 FVPY
 <p>for PVDF- and PE-Hoses</p>		6 x 8 mm	21	64,5	21					Standard		48SB KP08 FVX	48SB KP08 FVP
	9 x 12 mm	21	71,5	28					Standard		48SB KP12 FVX	48SB KP12 FVP	
	10 x 12 mm	21	71,5	28					Standard		48SB KP12 FVXS	48SB KP12 FVPS	

Valved Plugs

RECTUS Series 48SB

Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number
6 mm	21	65,5		22					Standard	48SB TF06 DPX	48SB TF06 FVX	48SB TF06 FVP
									blue	48SB TF06 DPXB	48SB TF06 FVXB	48SB TF06 FVPB
									green	48SB TF06 DPXG	48SB TF06 FVXG	48SB TF06 FVPG
									red	48SB TF06 DPXR	48SB TF06 FVXR	48SB TF06 FVPR
									yellow	48SB TF06 DPXY	48SB TF06 FVXY	48SB TF06 FVPY
9 mm	21	65,5		22					Standard	48SB TF09 DPX	48SB TF09 FVX	48SB TF09 FVP
									blue	48SB TF09 DPXB	48SB TF09 FVXB	48SB TF09 FVPB
									green	48SB TF09 DPXG	48SB TF09 FVXG	48SB TF09 FVPG
									red	48SB TF09 DPXR	48SB TF09 FVXR	48SB TF09 FVPR
									yellow	48SB TF09 DPXY	48SB TF09 FVXY	48SB TF09 FVPY
13 mm	21	68,5		25					Standard	48SB TF13 DPX	48SB TF13 FVX	48SB TF13 FVP
									blue	48SB TF13 DPXB	48SB TF13 FVXB	48SB TF13 FVPB
									green	48SB TF13 DPXG	48SB TF13 FVXG	48SB TF13 FVPG
									red	48SB TF13 DPXR	48SB TF13 FVXR	48SB TF13 FVPR
									yellow	48SB TF13 DPXY	48SB TF13 FVXY	48SB TF13 FVPY

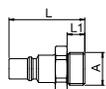


Hose Barb

Plugs

RECTUS Series 48SF

Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number
G 1/4 o.	17	38,5		9					Standard	48SF AW13 DXX	48SF AW13 FXX	
									blue	48SF AW13 DPXB	48SF AW13 FVXB	
									green	48SF AW13 DPXG	48SF AW13 FVXG	
									red	48SF AW13 DPXR	48SF AW13 FVXR	
									yellow	48SF AW13 DPXY	48SF AW13 FVXY	
G 3/8 o.	21	38,5		9					Standard	48SF AW17 DXX	48SF AW17 FXX	
									blue	48SF AW17 DPXB	48SF AW17 FVXB	
									green	48SF AW17 DPXG	48SF AW17 FVXG	
									red	48SF AW17 DPXR	48SF AW17 FVXR	
									yellow	48SF AW17 DPXY	48SF AW17 FVXY	
G 1/2 o.	21	41,5		12					Standard	48SF AW21 DXX	48SF AW21 FXX	
									blue	48SF AW21 DPXB	48SF AW21 FVXB	
									green	48SF AW21 DPXG	48SF AW21 FVXG	
									red	48SF AW21 DPXR	48SF AW21 FVXR	
									yellow	48SF AW21 DPXY	48SF AW21 FVXY	
G 1/4 i.	17	35,5		9					Standard	48SF IW13 DXX	48SF IW13 FXX	
									blue	48SF IW13 DPXB	48SF IW13 FVXB	
									green	48SF IW13 DPXG	48SF IW13 FVXG	
									red	48SF IW13 DPXR	48SF IW13 FVXR	
									yellow	48SF IW13 DPXY	48SF IW13 FVXY	



Male Thread



Female Thread

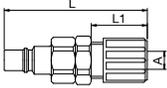
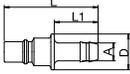
Plugs

RECTUS Series 48SF

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number	
 <p>Female Thread</p>	G 3/8 i.	21	35,5	10						Standard	48SF IW17 DXX	48SF IW17 FXX		
										blue	48SF IW17 DXXB	48SF IW17 FXXB		
										green	48SF IW17 DXXG	48SF IW17 FXXG		
										red	48SF IW17 DXXR	48SF IW17 FXXR		
										yellow	48SF IW17 DXXY	48SF IW17 FXXY		
	G 1/2 i.	24	59	13							Standard	48SF IW21 DXX	48SF IW21 FXX	
											blue	48SF IW21 DPXB	48SF IW21 FVXB	
											green	48SF IW21 DPXG	48SF IW21 FVXG	
											red	48SF IW21 DPXR	48SF IW21 FVXR	
											yellow	48SF IW21 DPXY	48SF IW21 FVXY	

Plugs

RECTUS Series 48SF

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number	
 <p>for PVDF- and PE-Hoses</p>	6 x 8 mm	21	64,5	21						Standard		48SF KP08 FVX		
	9 x 12 mm	21	71,5	28						Standard		48SF KP12 FVX		
	10 x 12 mm	21	71,5	28						Standard		48SF KP12 FVXS		
 <p>Hose Barb</p>	6 mm		47	18	22					Standard	48SF TF06 DXX	48SF TF06 FXX		
										blue	48SF TF06 DPXB	48SF TF06 FVXB		
										green	48SF TF06 DPXG	48SF TF06 FVXG		
										red	48SF TF06 DPXR	48SF TF06 FVXR		
										yellow	48SF TF06 DPXY	48SF TF06 FVXY		
	9 mm		47	18	22						Standard	48SF TF09 DXX	48SF TF09 FXX	
											blue	48SF TF09 DPXB	48SF TF09 FVXB	
											green	48SF TF09 DPXG	48SF TF09 FVXG	
											red	48SF TF09 DPXR	48SF TF09 FVXR	
											yellow	48SF TF09 DPXY	48SF TF09 FVXY	
	13 mm		50	18	25						Standard	48SF TF13 DXX	48SF TF13 FXX	
											blue	48SF TF13 DPXB	48SF TF13 FVXB	
											green	48SF TF13 DPXG	48SF TF13 FVXG	
											red	48SF TF13 DPXR	48SF TF13 FVXR	
											yellow	48SF TF13 DPXY	48SF TF13 FVXY	



Nominal Diameter

4,3 = 15 mm²

RECTUS Series

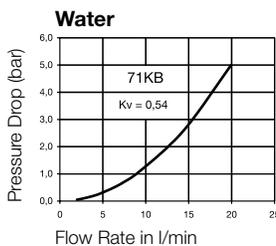
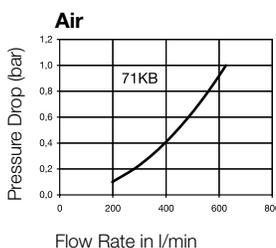
71KB



actual size

**Technical Description**

The 71KB series is a double shut-off hydraulic coupling used for liquid media. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Chart**Advantages**

Simple, yet rugged construction guarantees the highest safety.

Working Pressure

PB = 15 bar (at 50°C)
maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (NBR)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (FKM)
depending on the medium.

*At a temperature below -20°C and above +90°C special seals are available on request.

Material**Coupling**

Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

Standard

POM, white
POM, white
AISI 303
AISI 301
AISI 316
NBR
AISI 301

Plug

Plug Profile
Valve
Spring
Seal
Spring Plate

POM, white
AISI 303
AISI 301
NBR
AISI 301

You will find the following alternative versions in our current catalogue on page:

- ▶ Stainless Steel Double Shut-off P. 216
- ▶ Brass/Steel Double Shut-off P. 124

Coupling**RECTUS Series 71KB**

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 1/8	14	48,5	24,5	7					Standard	71KB IW10 DPX

Valved Plug**RECTUS Series 71KB**

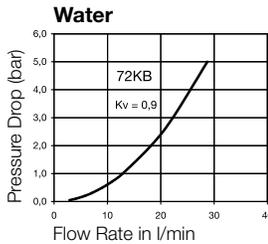
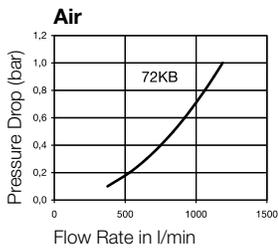
	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 1/8	14	29,5		7					Standard	71SB IW10 DPX



Technical Description

The 72KB series is a double shut-off hydraulic coupling used for liquid media. The plug profile is manufactured in accordance with ISO-7241-1, series B. All versions mentioned below are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Chart



Advantages

Simple, yet rugged construction guarantees the highest safety.

Working Pressure

PB = 15 bar (at 50°C)
maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (NBR)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (FKM)
0°C up to +90°C (FFKM)
depending on the medium.

*At a temperature below -20°C and above +90°C special seals are available on request.

Material

Coupling
Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

Plug

Plug Profile
Valve
Spring
Spring Plate
Seal

Standard

POM, white
POM, white
AISI 303
AISI 301
AISI 316
NBR
AISI 301

POM, white
AISI 303
AISI 301
AISI 301
NBR



You will find the following alternative versions in our current catalogue on page:

- ▶ Stainless Steel Double Shut-off P. 217
- ▶ Brass/Steel Double Shut-off P. 134

Coupling

RECTUS Series 72KB

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 1/4	19	57,5	28,5	10					Standard	72KB IW13 DPX

Valved Plug

RECTUS Series 72KB

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 1/4	19	35		10					Standard	72SB IW13 DPX



Nominal Diameter

7,5 = 44 mm²

RECTUS Series

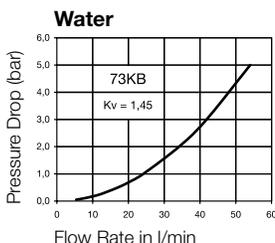
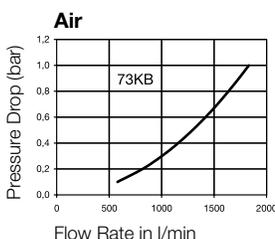
73KB



85% of actual size

Technical Description

The 73KB series is a double shut-off hydraulic coupling used for liquid media. The plug profile is manufactured in accordance with ISO-7421-1, series B. All versions mentioned below are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Chart**Advantages**

Simple, yet rugged construction guarantees the highest safety.

Working Pressure

PB = 15 bar (at 50°C)
maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (NBR)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (FKM)
0°C up to 90°C (FFKM)
depending on the medium.

*At a temperature below -20°C and above +90°C special seals are available on request.

Material**Coupling**

Back Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

Standard

POM, white
POM, white
AISI 303
AISI 301
AISI 316
NBR
AISI 301

Plug

Plug Profile
Valve
Spring
Spring Plate
Seal

POM, white
AISI 303
AISI 301
AISI 301
NBR

You will find the following alternative versions in our current catalogue on page:

- ▶ Stainless Steel Double Shut-off P. 218
- ▶ Brass/Steel Double Shut-off P. 144

Coupling**RECTUS Series 73KB**

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 3/8	22	64	35	11,5					Standard	73KB IW17 DPX

Valved Plug**RECTUS Series 73KB**

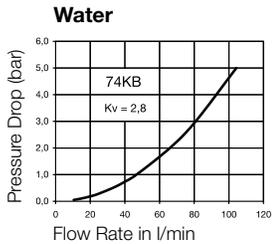
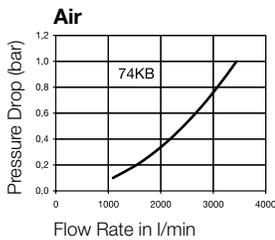
	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 3/8	22	39		11,5					Standard	73SB IW17 DPX



Technical Description

The 74KB series is a double shut-off hydraulic coupling used for liquid media. The plug profile is manufactured in accordance with ISO-7421-1, series B. All versions mentioned below are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Chart



Advantages

Simple, yet rugged construction guarantees the highest safety.

Working Pressure

PB = 10 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C bis +90°C (NBR)
 -40°C bis +90 (EPDM)
 -15°C bis +90°C (FKM)
 0°C bis +90°C (FFKM)
 depending on the medium.

*At a temperature below -20°C and above +90°C special seals are available on request.

Material

- Coupling
- Valve Body
- Sleeve
- Valve
- Spring and Locking Ring
- Locking Balls
- Seals
- Spring Plate

Standard

- POM, white
- POM, white
- AISI 303
- AISI 301
- AISI 316
- NBR
- AISI 301

Plug

- Plug Profile
- Valve
- Spring
- Spring Plate
- Seal
- POM, white
- AISI 303
- AISI 301
- AISI 301
- NBR



75% of actual size

You will find the following alternative versions in our current catalogue on page:

- ▶ Stainless Steel Double Shut-off P. 219
- ▶ Brass/Steel Double Shut-off P. 150

Coupling

RECTUS Series 74KB

	Connection A	Hex	L	D	L1	L2	Hex1	B	G	Version	Part Number
		SW	mm	mm	mm	mm	SW1	mm	mm		
<p>Female Thread</p>	G 1/2	27	76	44,5	16					Standard	74KB IW21 DPX

Valved Plug

RECTUS Series 74KB

	Connection A	Hex	L	D	L1	L2	Hex1	B	G	Version	Part Number
		SW	mm	mm	mm	mm	SW1	mm	mm		
<p>Female Thread</p>	G 1/2	27	48		16					Standard	74SB IW21 DPX



Nominal Diameter

13 = 133 mm²

RECTUS Series

75KB


55% of actual size



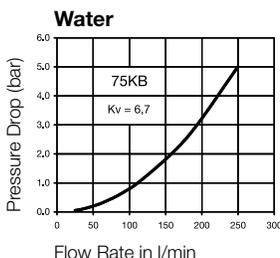
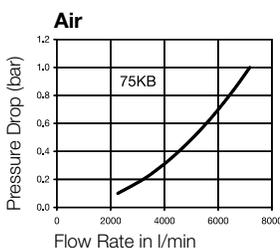
You will find the following alternative versions in our current catalogue on page:

- ▶ Stainless Steel Double Shut-off P. 220
- ▶ Brass/Steel Double Shut-off P. 154

Technical Description

The 75KB series is a double shut-off hydraulic coupling used for liquid media. The plug profile is manufactured in accordance with ISO-7421-1, series B. All versions mentioned below are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Chart



Advantages

Simple, yet rugged construction guarantees the highest safety.

Working Pressure

PB = 10 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (NBR)
-40°C up to +90 (EPDM)
-15°C up to +90°C (FKM)
0°C up to + 90°C (FFKM)
depending on the medium.

*At a temperature below -20°C and above +90°C special seals are available on request.

Material

Coupling

Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate

Standard

POM, white
POM, white
AISI 303
AISI 301
AISI 316
NBR
AISI 301

Plug

Plug Profile
Valve
Spring
Spring Plate
Seal

POM, white
AISI 303
AISI 301
AISI 301
NBR

Coupling

RECTUS Series 75KB

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 3/4	34	96	55	24					Standard	75KB IW26 DPX

Valved Plug

RECTUS Series 75KB

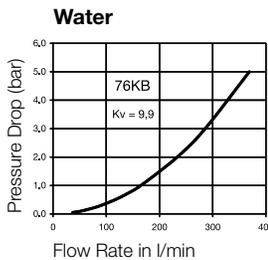
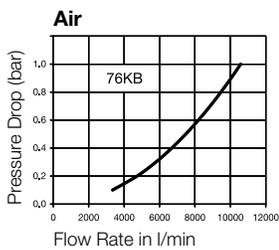
	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 3/4	36	60		24					Standard	75SB IW26 DPX



Technical Description

The 76KB series is a double shut-off hydraulic coupling used for liquid media. The plug profile is manufactured in accordance with ISO-7421-1, series B. All versions mentioned below are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Chart



Advantages

Simple, yet rugged construction guarantees the highest safety.

Working Pressure

PB = 10 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (NBR)
 -40°C up to +90°C (EPDM)
 -15°C up to +90°C (FKM)
 0°C up to +90°C (FFKM)
 depending on the medium

*At a temperature below -20°C and above +90°C special seals are available on request.

Material

- Coupling
- Valve Body
- Sleeve
- Valve
- Spring and Locking Ring
- Locking Balls
- Seals
- Spring Plate, Locking Ring

Standard

- POM, white
- POM, white
- AISI 303
- AISI 316 Ti
- AISI 316
- NBR
- AISI 301

Plug

- Plug Profile
- Valve
- Spring
- Spring Plate
- Seal
- POM, white
- AISI 303
- AISI 316 Ti
- AISI 301
- NBR



45% of actual size

You will find the following alternative versions in our current catalogue on page:

- ▶ Stainless Steel Double Shut-off P. 221
- ▶ Brass/Steel Double Shut-off P. 160

Coupling

RECTUS Series 76KB

	Connection A	Hex	L	D	L1	L2	Hex1	B	G	Version	Part Number
		SW	mm	mm	mm	mm	SW1	mm	mm		
<p>Female Thread</p>	G 1	41	105,5	62	24					Standard	76KB IW33 DPX

Valved Plug

RECTUS Series 76KB

	Connection A	Hex	L	D	L1	L2	Hex1	B	G	Version	Part Number
		SW	mm	mm	mm	mm	SW1	mm	mm		
<p>Female Thread</p>	G 1	41	65		24					Standard	76SB IW33 DPX



Nominal Diameter

30 = 707 mm²

RECTUS Series

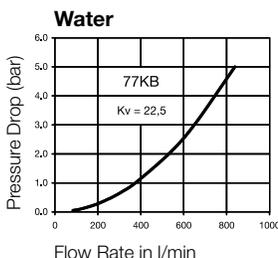
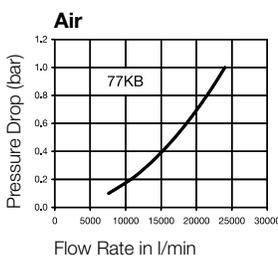
77KB



35% of actual size

**Technical Description**

The 77KB series is a double shut-off hydraulic coupling used for liquid media. The plug profile is manufactured in accordance with ISO-7421-1, series B. All versions mentioned below are manufactured from non-rusting stainless steel or POM. This coupling requires two handed operation (the sleeve must be manually pulled back when connecting).

Chart**Advantages**

Simple, yet rugged construction guarantees the highest safety.

Working Pressure

PB = 10 bar (at 50°C), maximum static working pressure with safety factor of 4 to 1.

Working Temperature*

-20°C up to +90°C (NBR)
-40°C up to +90°C (EPDM)
-15°C up to +90°C (FKM)
0°C up to +90°C (FFKM)
depending on the medium

*At a temperature below -20°C and above +90°C special seals are available on request.

Material**Coupling**

Valve Body
Sleeve
Valve
Spring and Locking Ring
Locking Balls
Seals
Spring Plate, Locking Ring

Standard

POM, white
POM, white
AISI 303
AISI 316 Ti
AISI 316
EPDM
AISI 301

Plug

Plug Profile
Valve
Spring
Spring Plate
Seal

POM, white
AISI 303
AISI 316 Ti
AISI 301
EPDM

Coupling**RECTUS Series 77KB**

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 1 1/2	60	133	76	23					Standard	77KB IW48 DEXS

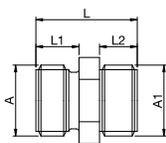
Valved Plug**RECTUS Series 77KB**

	Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Version	Part Number
<p>Female Thread</p>	G 1 1/2	60	132		23					Standard	77SB IW48 DEX

Male x Male Nipple

RECTUS Fittings

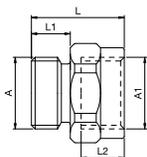
Connection A	Hex SW	L mm	L1 mm	L2 mm	L3 mm	Hex1 SW1	B mm	G mm	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x G 1/8	14	19	8	7					DN 13/10DX	DN 13/10FX
G 1/4 x G 1/4	14	19	8	7					DN 13/13DX	DN 13/13FX
G 3/8 x G 1/4	17	28,5	9	9					DN 17/13DX	DN 17/13FX
G 3/8 x G 3/8	21	25	9	9					DN 17/17DX	DN 17/17FX
G 3/8 x G 1/2	21	31,5	9	12					DN 17/21DX	DN 17/21FX



Male x Female Nipple

RECTUS Fittings

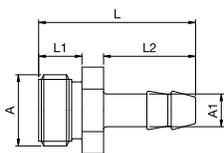
Connection A	Hex SW	L mm	L1 mm	L2 mm	L3 mm	Hex1 SW1	B mm	G mm	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x G 1/8	14	22	8	8					RL 13/10DX	RL 13/10FX
G 1/4 x G 1/4	17	25	8	10					RL 13/13DX	RL 13/13FX
G 3/8 x G 1/4	17	21,5	9	10					RL 17/13DX	RL 17/13FX
G 3/8 x G 3/8	21	21,5	9	10					RL 17/17DX	RL 17/17FX
G 3/8 x G 1/2	17	32,5	9	13					RL 17/21DX	RL 17/21FX



Hose Tale Adaptor

RECTUS Fittings

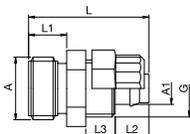
Connection A	Hex SW	L mm	L1 mm	L2 mm	L3 mm	Hex1 SW1	B mm	G mm	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4 x 4 mm	14	29	8	17					GT 13/04DX	GT 13/04FX
G 1/4 x 6 mm	14	29	8	17					GT 13/06DX	GT 13/06FX
G 3/8 x 6 mm	17	39	9	22					GT 17/06DX	GT 17/06FX
G 3/8 x 9 mm	17	39	9	22					GT 17/09DX	GT 17/09FX
G 3/8 x 10 mm	17	39	9	22					GT 17/10DX	
G 3/8 x 13 mm	17	42	9	25					GT 17/13DX	GT 17/13FX



Plastic Screw Connector

RECTUS Fittings

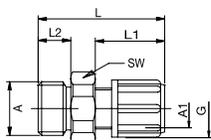
Connection A	Hex SW	L mm	L1 mm	L2 mm	L3 mm	Conn. A1 mm	G mm	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4	14	25	8	13		4 x 6	M 10 x 1	EV 13/06 DX	EV 13/06 FX
G 1/4	14	25	8	13		6 x 8	M 12 x 1	EV 13/08 DX	EV 13/08 FX



Screw Connection for PVDF or PE Hoses

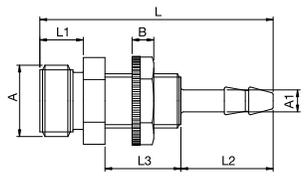
RECTUS Fittings

Connection A	Hex SW	L mm	L1 mm	L2 mm	L3 mm	Conn. A1 mm	G mm	Rectu POM Part Number	Rectu CHEM Part Number
G 1/4	17	31	17	8		4 x 6	M 10 x 1		EV 13/06 FX04
G 1/4	17	35	21	8		6 x 8	M 12 x 1		EV 13/08 FX06
G 3/8	22	38	21	9		6 x 8	M 12 x 1		EV 17/08 FX06
G 3/8	22	45	28	9		9 x 12	M 12 x 1		EV 17/12 FX09
G 3/8	22	45	28	9		10 x 12	M 12 x 1		EV 17/12 FX10



Panel Mount, Standard Hose Connection **RECTUS Fittings**

Connection A	Hex SW	L mm	L1 mm	L2 mm	L3 mm	Hex1 SW1	B mm	G mm	Rectu POM	Rectu CHEM
									Part Number	Part Number
G 1/4 x 4 mm	14	43	7	8	14	14	4	M 10 x 1	ET 13/04 DX	ET 13/04 FX
G 1/4 x 6 mm	14	43	8	8	14	17	4	M 12 x 1	ET 13/06 DX	ET 13/06 FX



Panel Mount, Plastic Hose Connection **RECTUS Fittings**

Connection A	Hex SW	L mm	L1 mm	L2 mm	L3 mm	Hex1 SW1	B mm	G mm	Rectu POM	Rectu CHEM
									Part Number	Part Number
G 1/4 x 4 x 6 mm	14	37	7	8	18	14	4	M 10 x 1	EK 13/06 DX	EK 13/06 FX
G 1/4 x 6 x 8 mm	14	37	8	8	18	17	4	M 12 x 1	EK 13/08 DX	EK 13/08 FX

