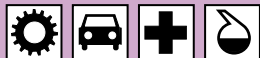


5 = 20 mm²

21

**Other designs in series 21**

The following other designs can be found from page:

▶ Brass / Steel	P. 30
▶ Stainless Steel	P. 192
▶ Medical Technology (MD)	P. 256
▶ Safety	P. 270
▶ Coded Systems	P. 298

Technical Description

Mini industrial coupling in plastics POM and PVDF with the world's most popular profile in this nominal diameter. Above average flow performance for liquid and gaseous media.

Coupling system with single-hand operation. This new type of plastic locking system with handy sleeve considerably expands the applications of this series. Two sleeve forms - tapered and cylindrical, where the tapered sleeve form facilitates handling with gloves. The color coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling.

Working Temperature

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

Other seal variants are available on request (FKM, EPDM, FFKM).

RectuPOM**RectuChem****Working Pressure****

10 bar (POM, at 20°C)

** maximum static working pressure with safety factor 4 to 1.

8 bar (PVDF, at 20°C)

Material

Coupling: POM black
Plug: POM black
Seals: NBR

Coupling: PVDF white
Plug: PVDF white
Seals: FKM

Valve types

single shut-off



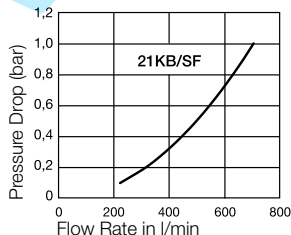
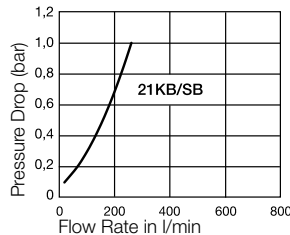
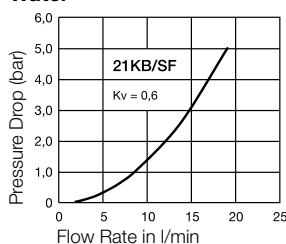
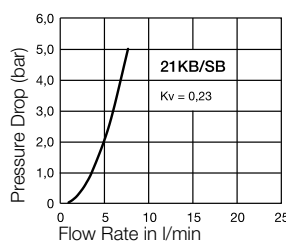
single shut-off

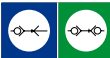


double shut-off



double shut-off

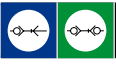
Flow diagrams**Air****Air****Water****Water**



Couplings – with valve

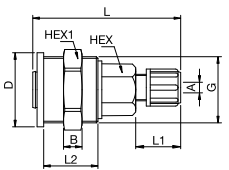
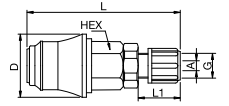
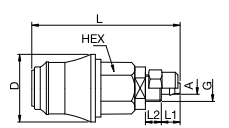
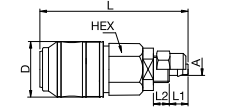
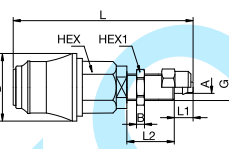
Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
<p>Male Thread with tapered sleeve</p>	G 1/8	17		50	7		25,5			Standard	21KBAW10DPX	21KBAW10FVX
	G 1/4	17		50	7		25,5			Standard	21KBAW13DPX	21KBAW13FVX
<p>Male Thread with cylindrical sleeve</p>	G 1/8	17		50	7		21			Standard	21KBAW10DPXG	21KBAW10FVXG
	G 1/8	17		50	7		21			blue	21KBAW10DPXGB	21KBAW10FVXGB
	G 1/8	17		50	7		21			green	21KBAW10DPXGG	21KBAW10FVXGG
	G 1/8	17		50	7		21			red	21KBAW10DPXGR	21KBAW10FVXGR
	G 1/8	17		50	7		21			yellow	21KBAW10DPXGY	21KBAW10FVXGY
	G 1/4	17		50	7		21			Standard	21KBAW13DPXG	21KBAW13FVXG
	G 1/4	17		50	7		21			blue	21KBAW13DPXGB	21KBAW13FVXGB
	G 1/4	17		50	7		21			green	21KBAW13DPXGG	21KBAW13FVXGG
	G 1/4	17		50	7		21			red	21KBAW13DPXGR	21KBAW13FVXGR
G 1/4	17		50	7		21			yellow	21KBAW13DPXGY	21KBAW13FVXGY	
<p>Female Thread with tapered sleeve</p>	G 1/8	17		53	8		25,5			Standard	21KBIW10DPX	21KBIW10FVX
	G 1/4	17		39	9		25,5			Standard	21KBIW13DPX	21KBIW13FVX
<p>Female Thread with cylindrical sleeve</p>	G 1/8	17		53	8		21			Standard	21KBIW10DPXG	21KBIW10FVXG
	G 1/8	17		53	8		21			blue	21KBIW10DPXGB	
	G 1/8	17		53	8		21			green	21KBIW10DPXGG	
	G 1/8	17		53	8		21			red	21KBIW10DPXGR	
	G 1/8	17		53	8		21			yellow	21KBIW10DPXGY	
	G 1/4	17		39	9		21			Standard	21KBIW13DPXG	21KBIW13FVXG
	G 1/4	17		39	9		21			blue	21KBIW13DPXGB	21KBIW13FVXGB
	G 1/4	17		39	9		21			green	21KBIW13DPXGG	21KBIW13FVXGG
	G 1/4	17		39	9		21			red	21KBIW13DPXGR	21KBIW13FVXGR
G 1/4	17		39	9		21			yellow	21KBIW13DPXGY	21KBIW13FVXGY	
<p>Panel Mount for Plastic Hose Connection for Front Panel Installation</p>	4 x 6 mm	17	27	56	7	20,5	28	7	M 25 x 1	Standard	21KBKE06DPX	21KBKE06FVX
	6 x 8 mm	17	27	56	7	20,5	28	7	M 25 x 1	Standard	21KBKE08DPX	21KBKE08FVX



Couplings – with valve

Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 <p>for PVDF- and PE-Hoses for Front Panel Installation</p>	4 x 6 mm	17	27	62	7	20,5	28	7	M 25 x 1	Standard		21KBFR06FVX
	6 x 8 mm	17	27	66	7	20,5	28	7	M 25 x 1	Standard		21KBFR08FVX
 <p>for PVDF- and PE-Hoses with tapered sleeve</p>	4 x 6 mm	17		62	17		25,5		M 10 x 1	Standard		21KBKP06FVX
	6 x 8 mm	17		66	17		25,5		M 12 x 1	Standard		21KBKP08FVX
 <p>with Plastic Hose Connection with tapered sleeve</p>	4 x 6 mm	17		56	6	7	25,5		M 10 x 1	Standard	21KBKO06DPX	21KBKO06FVX
	6 x 8 mm	17		56	6	7	25,5		M 12 x 1	Standard	21KBKO08DPX	21KBKO08FVX
 <p>with Plastic Hose Connection with cylindrical sleeve</p>	4 x 6 mm	17		56	6	7	21			Standard	21KBKO06DPXG	21KBKO06FVXG
	4 x 6 mm	17		56	6	7	21			blue	21KBKO06DPXGB	
	4 x 6 mm	17		56	6	7	21			green	21KBKO06DPXGG	
	4 x 6 mm	17		56	6	7	21			red	21KBKO06DPXGR	
	4 x 6 mm	17		56	6	7	21			yellow	21KBKO06DPXGY	
	6 x 8 mm	17		56	6	7	21			Standard	21KBKO08DPXG	21KBKO08FVXG
	6 x 8 mm	17		56	6	7	21			blue	21KBKO08DPXGB	
	6 x 8 mm	17		56	6	7	21			green	21KBKO08DPXGG	
	6 x 8 mm	17		56	6	7	21			red	21KBKO08DPXGR	
	6 x 8 mm	17		56	6	7	21			yellow	21KBKO08DPXGY	
 <p>Panel Mount with Plastic Hose Connection with tapered sleeve</p>	4 x 6 mm	17	14	68	7	18	25,5	4	M 10 x 1	Standard	21KBKS06DPX	21KBKS06FVX
	6 x 8 mm	17	17	68	7	18	25,5	4	M 12 x 1	Standard	21KBKS08DPX	21KBKS08FVX

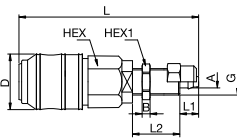
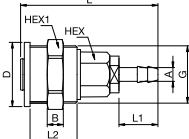
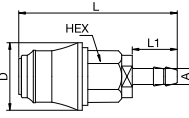
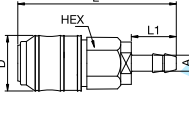


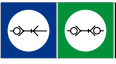
Couplings – with valve

Series 21KB

Thermoplastic

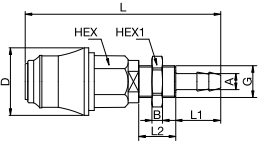
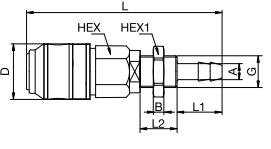
Low Pressure

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 <p>Panel Mount with Plastic Hose Connection with cylindrical sleeve</p>	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	Standard	21KBKS06DPXG	21KBKS06FVXG
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	blue	21KBKS06DPXGB	21KBKS06FVXGB
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	green	21KBKS06DPXGG	21KBKS06FVXGG
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	red	21KBKS06DPXGR	21KBKS06FVXGR
	4 x 6 mm	17	14	68	7	18	21	4	M 10 x 1	yellow	21KBKS06DPXGY	21KBKS06FVXGY
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	Standard	21KBKS08DPXG	21KBKS08FVXG
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	blue	21KBKS08DPXGB	
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	green	21KBKS08DPXGG	
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	red	21KBKS08DPXGR	
	6 x 8 mm	17	17	68	7	18	21	4	M 12 x 1	yellow	21KBKS08DPXGY	
 <p>Panel Mount for Hose Barb for Front Panel Installation</p>	4 mm	17	27	60	17	20,5	28	7	M 25 x 1	Standard	21KBTE04DPX	21KBTE04FVX
	6 mm	17	27	60	17	20,5	28	7	M 25 x 1	Standard	21KBTE06DPX	21KBTE06FVX
 <p>Hose Barb with tapered sleeve</p>	4 mm	17		60	17		25,5			Standard	21KBTF04DPX	21KBTF04FVX
	6 mm	17		60	17		25,5			Standard	21KBTF06DPX	21KBTF06FVX
 <p>Hose Barb with cylindrical sleeve</p>	4 mm	17		60	17		21			Standard	21KBTF04DPXG	21KBTF04FVXG
	4 mm	17		60	17		21			blue	21KBTF04DPXGB	21KBTF04FVXGB
	4 mm	17		60	17		21			green	21KBTF04DPXGG	21KBTF04FVXGG
	4 mm	17		60	17		21			red	21KBTF04DPXGR	21KBTF04FVXGR
	4 mm	17		60	17		21			yellow	21KBTF04DPXGY	21KBTF04FVXGY
	6 mm	17		60	17		21			Standard	21KBTF06DPXG	21KBTF06FVXG
	6 mm	17		60	17		21			blue	21KBTF06DPXGB	21KBTF06FVXGB
	6 mm	17		60	17		21			green	21KBTF06DPXGG	21KBTF06FVXGG
	6 mm	17		60	17		21			red	21KBTF06DPXGR	21KBTF06FVXGR
	6 mm	17		60	17		21			yellow	21KBTF06DPXGY	21KBTF06FVXGY



Couplings – with valve

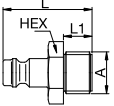
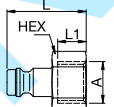
Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 <p>Panel Mount with Hose Barb with tapered sleeve</p>	4 mm	17	14	74	17	14	25,5	4	M 10 x 1	Standard	21KBTS04DPX	21KBTS04FVX
	6 mm	17	14	74	17	14	25,5	4	M 10 x 1	Standard	21KBTS06DPX	21KBTS06FVX
 <p>Panel Mount with Hose Barb with cylindrical sleeve</p>	4 mm	17	14	74	17	14	21	4	M 10 x 1	Standard	21KBTS04DPXG	21KBTS04FVXG
	4 mm	17	14	74	17	14	21	4	M 10 x 1	blue	21KBTS04DPXGB	
	4 mm	17	14	74	17	14	21	4	M 10 x 1	green	21KBTS04DPXGG	
	4 mm	17	14	74	17	14	21	4	M 10 x 1	red	21KBTS04DPXGR	
	4 mm	17	14	74	17	14	21	4	M 10 x 1	yellow	21KBTS04DPXGY	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	Standard	21KBTS06DPXG	21KBTS06FVXG
	6 mm	17	17	74	17	14	21	4	M 12 x 1	blue	21KBTS06DPXGB	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	green	21KBTS06DPXGG	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	red	21KBTS06DPXGR	
	6 mm	17	17	74	17	14	21	4	M 12 x 1	yellow	21KBTS06DPXGY	



Plugs – without valve

Series 21SF

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 <p>Male Thread</p>	G 1/8	14		25	7					Standard	21SFAW10DXX	21SFAW10FXX
	G 1/8	14		25	7					blue		21SFAW10FVXB
	G 1/8	14		25	7					green		21SFAW10FVXG
	G 1/8	14		25	7					red		21SFAW10FVXR
	G 1/8	14		25	7					yellow		21SFAW10FVXY
	G 1/4	17		28	9					Standard	21SFAW13DXX	21SFAW10FXX
	G 1/4	17		28	9					blue	21SFAW13DPXB	
	G 1/4	17		28	9					green	21SFAW13DPXG	
	G 1/4	17		28	9					red	21SFAW13DPXR	
	G 1/4	17		28	9					yellow	21SFAW13DPXY	
 <p>Female Thread</p>	G 1/8	14		24	8					Standard	21SFIW10DXX	21SFIW10FXX
	G 1/8	14		24	8					blue		21SFIW10FVXB
	G 1/8	14		24	8					green		21SFIW10FVXG
	G 1/8	14		24	8					red		21SFIW10FVXR
	G 1/8	14		24	8					yellow		21SFIW10FVXY
	G 1/4	17		25	9					Standard	21SFIW13DXX	21SFIW13FXX
	G 1/4	17		25	9					blue		21SFIW13FXXB
	G 1/4	17		25	9					green		21SFIW13FXXG
	G 1/4	17		25	9					red		21SFIW13FXXR
	G 1/4	17		25	9					yellow		21SFIW13FXXY

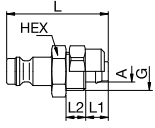
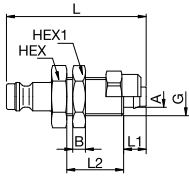
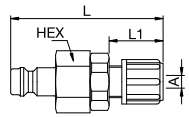
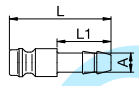
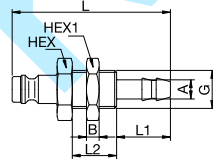


Plugs – without valve

Series 21SF

Thermoplastic

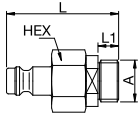
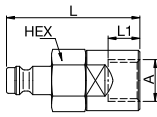
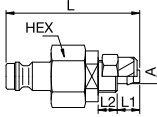
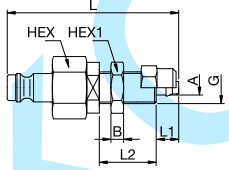
Low Pressure

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 <p>with Plastic Hose Connection</p>	4 x 6 mm	14		32	7	6			M 10 x 1	Standard	21SFKO06DXX	21SFKO06FXX
	4 x 6 mm	14		32	7	6			M 10 x 1	blue	21SFKO06DPXB	21SFKO06FVXB
	4 x 6 mm	14		32	7	6			M 10 x 1	green	21SFKO06DPXG	21SFKO06FVXG
	4 x 6 mm	14		32	7	6			M 10 x 1	red	21SFKO06DPXR	21SFKO06FVXR
	4 x 6 mm	14		32	7	6			M 10 x 1	yellow	21SFKO06DPXY	21SFKO06FVXY
	6 x 8 mm	14		32	7	6			M 12 x 1	Standard	21SFKO08DXX	21SFKO08FXX
 <p>Panel Mount with Plastic Hose Connection</p>	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	Standard	21SFKS06DXX	21SFKS06FXX
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	blue	21SFKS06DPXB	
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	green	21SFKS06DPXG	
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	red	21SFKS06DPXR	
	4 x 6 mm	14	14	44	7	18		4	M 10 x 1	yellow	21SFKS06DPXY	
	6 x 8 mm	14	14	44	7	18		4	M 12 x 1	Standard	21SFKS08DXX	21SFKS08FXX
 <p>for PVDF- and PE-Hoses</p>	4 x 6 mm	17		48	28					Standard		21SFKP06FVX
	4 x 6 mm	17		48	28					blue		21SFKP06FVXB
	4 x 6 mm	17		48	28					green		21SFKP06FVXG
	4 x 6 mm	17		48	28					red		21SFKP06FVXR
	4 x 6 mm	17		48	28					yellow		21SFKP06FVXY
	6 x 8 mm	17		52	28					Standard		21SFKP08FVX
	6 x 8 mm	17		52	28					blue		21SFKP08FVXB
	6 x 8 mm	17		52	28					green		21SFKP08FVXG
	6 x 8 mm	17		52	28					red		21SFKP08FVXR
	6 x 8 mm	17		52	28					yellow		21SFKP08FVXY
 <p>Hose Barb</p>	4 mm			32	17					Standard	21SFTF04DXX	21SFTF04FXX
	4 mm			32	17					blue	21SFTF04DPXB	
	4 mm			32	17					green	21SFTF04DPXG	
	4 mm			32	17					red	21SFTF04DPXR	
	4 mm			32	17					yellow	21SFTF04DPXY	
	6 mm			32	17					Standard	21SFTF06DXX	21SFTF06FXX
	6 mm			32	17					blue	21SFTF06DPXB	21SFTF06FVXB
	6 mm			32	17					green	21SFTF06DPXG	21SFTF06FVXG
	6 mm			32	17					red	21SFTF06DPXR	21SFTF06FVXR
	6 mm			32	17					yellow	21SFTF06DPXY	21SFTF06FVXY
 <p>Panel Mount with Hose Barb</p>	4 mm	14	14	50	17	14		4	M 10 x 1	Standard	21SFTS04DXX	21SFTS04FXX
	4 mm	14	14	50	17	14		4	M 10 x 1	blue		21SFTS04FVXB
	4 mm	14	14	50	17	14		4	M 10 x 1	green		21SFTS04FVXG
	4 mm	14	14	50	17	14		4	M 10 x 1	red		21SFTS04FVXR
	4 mm	14	14	50	17	14		4	M 10 x 1	yellow		21SFTS04FVXY
	6 mm	14	17	50	17	14		4	M 12 x 1	Standard	21SFTS06DXX	21SFTS06FXX

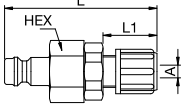
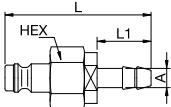
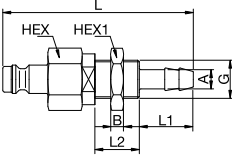


Plugs – with valve

Series 21KB

	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 <p>Male Thread</p>	G 1/8	17		36	7					Standard	21SBAW10DPX	21SBAW10FVX
	G 1/8	17		36	7					blue	21SBAW10DPXB	21SBAW10FVXB
	G 1/8	17		36	7					green	21SBAW10DPXG	21SBAW10FVXG
	G 1/8	17		36	7					red	21SBAW10DPXR	21SBAW10FVXR
	G 1/8	17		36	7					yellow	21SBAW10DPXY	21SBAW10FVXY
	G 1/4	17		38	7					Standard	21SBAW13DPX	21SBAW13FVX
	G 1/4	17		38	7					blue	21SBAW13DPXB	21SBAW13FVXB
	G 1/4	17		38	7					green	21SBAW13DPXG	21SBAW13FVXG
	G 1/4	17		38	7					red	21SBAW13DPXR	21SBAW13FVXR
	G 1/4	17		38	7					yellow	21SBAW13DPXY	21SBAW13FVXY
 <p>Female Thread</p>	G 1/8	17		39	8					Standard	21SBIW10DPX	21SBIW10FVX
	G 1/8	17		39	8					blue	21SBIW10DPXB	
	G 1/8	17		39	8					green	21SBIW10DPXG	
	G 1/8	17		39	8					red	21SBIW10DPXR	
	G 1/8	17		39	8					yellow	21SBIW10DPXY	
	G 1/4	17		42	10					Standard	21SBIW13DPX	21SBIW13FVX
	G 1/4	17		42	10					blue	21SBIW13DPXB	
	G 1/4	17		42	10					green	21SBIW13DPXG	
	G 1/4	17		42	10					red	21SBIW13DPXR	
 <p>with Plastic Hose Connection</p>	4 x 6 mm	17		42	7	6				Standard	21SBKO06DPX	21SBKO06FVX
	6 x 8 mm	17		42	7	6				Standard	21SBKO08DPX	21SBKO08FVX
	6 x 8 mm	17		42	7	6				blue	21SBKO08DPXB	21SBKO08FVXB
	6 x 8 mm	17		42	7	6				green	21SBKO08DPXG	21SBKO08FVXG
	6 x 8 mm	17		42	7	6				red	21SBKO08DPXR	21SBKO08FVXR
	6 x 8 mm	17		42	7	6				yellow	21SBKO08DPXY	21SBKO08FVXY
 <p>Panel Mount with Plastic Hose Connection</p>	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	Standard	21SBKS06DPX	21SBKS06FVX
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	blue	21SBKS06DPXB	21SBKS06FVXB
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	green	21SBKS06DPXG	21SBKS06FVXG
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	red	21SBKS06DPXR	21SBKS06FVXR
	4 x 6 mm	17	14	54	7	18		4	M 10 x 1	yellow	21SBKS06DPXY	21SBKS06FVXY
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	Standard	21SBKS08DPX	21SBKS08FVX
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	blue		21SBKS08FVXB
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	green		21SBKS08FVXG
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	red		21SBKS08FVXR
	6 x 8 mm	17	17	54	7	18		4	M 12 x 1	yellow		21SBKS08FVXY



	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	G mm	Color Sleeve	Part Number POM	Part Number CHEM
 <p>Panel Mount for PVDF- and PE-Hoses</p>	4 x 6 mm	17		48	28					Standard		21SBKP06FVX
	4 x 6 mm	17		48	28					blue		21SBKP06FVXB
	4 x 6 mm	17		48	28					green		21SBKP06FVXG
	4 x 6 mm	17		48	28					red		21SBKP06FVXR
	4 x 6 mm	17		48	28					yellow		21SBKP06FVXY
	6 x 8 mm	17		52	28					Standard		21SBKP08FVX
 <p>Hose Barb</p>	4 mm	17		46	17					Standard	21SBTF04DPX	21SBTF04FVX
	4 mm	17		46	17					blue	21SBTF04DPXB	
	4 mm	17		46	17					green	21SBTF04DPXG	
	4 mm	17		46	17					red	21SBTF04DPXR	
	6 mm	17		46	17					Standard		21SBTF06FVX
	6 mm	17		46	17					blue	21SBTF06DPXB	21SBTF06FVXB
	6 mm	17		46	17					green	21SBTF06DPXG	21SBTF06FVXG
	6 mm	17		46	17					red	21SBTF06DPXR	21SBTF06FVXR
	6 mm	17		46	17					yellow	21SBTF06DPXY	21SBTF06FVXY
 <p>Panel Mount with Hose Barb</p>	4 mm	17	14	60	7	14		4	M 10 x 1	Standard	21SBTS04DPX	21SBTS04FVX
	4 mm	17	14	60	7	14		4	M 10 x 1	blue	21SBTS04DPXB	21SBTS04FVXB
	4 mm	17	14	60	7	14		4	M 10 x 1	green	21SBTS04DPXG	21SBTS04FVXG
	4 mm	17	14	60	7	14		4	M 10 x 1	red	21SBTS04DPXR	21SBTS04FVXR
	4 mm	17	14	60	7	14		4	M 10 x 1	yellow	21SBTS04DPXY	21SBTS04FVXY
	6 mm	17	17	60	7	14		4	M 12 x 1	Standard	21SBTS06DPX	21SBTS06FVX
	6 mm	17	17	60	7	14		4	M 12 x 1	blue	21SBTS06DPXB	21SBTS06FVXB
	6 mm	17	17	60	7	14		4	M 12 x 1	green	21SBTS06DPXG	21SBTS06FVXG
	6 mm	17	17	60	7	14		4	M 12 x 1	red	21SBTS06DPXR	21SBTS06FVXR
	6 mm	17	17	60	7	14		4	M 12 x 1	yellow	21SBTS06DPXY	21SBTS06FVXY



7 = 38 mm²

48

**Other designs in series 48**

The following other designs can be found from page:

► Medical Technology (BT-Serie) P. 268

Technische Informationen






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

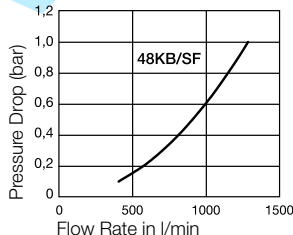
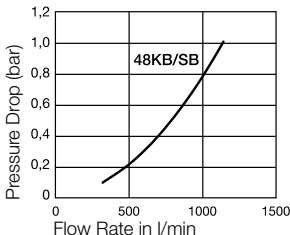
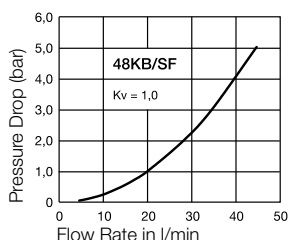
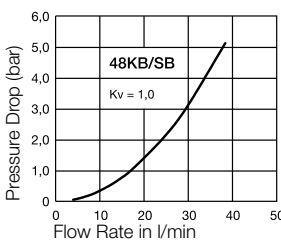
Coupling system with single-hand operation. The color coding of the coupling and plug offers a guarantee for avoiding mix-ups between media when coupling. The coupling is also available with no valve for a straight-through system.

Working Temperature

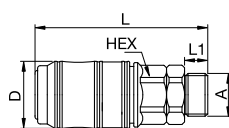
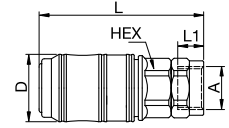
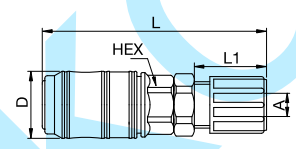
-20°C up to +80°C (POM)
-20°C up to +120°C (PVDF)
depending on the medium.

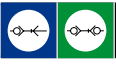
Other seal variants are available on request (FKM, EPDM, FFKM).

RectuPOM	RectuChem	RectuChem+
Working Pressure**		
0-10 bar (POM, at 20°C) ** maximum static working pressure with safety factor 4 to 1.	0-8 bar (PVDF, with metal springs)	1-8 bar (PVDF, with PEEK-spring)
Material		
Coupling: POM black Plug: POM black Seals: NBR	Coupling: PVDF white Plug: PVDF white Seals: FKM	Coupling: PVDF white, PEEK-spring Plug: PVDF white, PEEK-spring Seals: FKM
Valve types		
 single shut-off  double shut-off	 single shut-off  double shut-off	 double shut-off
Flow diagrams		

Air**Air****Water****Water**



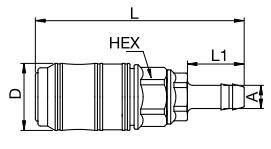
Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+	
G 1/4	21	70,5	9	26	Standard	48KBAW13DPX	48KBAW13FVX	48KBAW13FVP	
G 1/4	21	70,5	9	26	blue	48KBAW13DPXB	48KBAW13FVXB		
G 1/4	21	70,5	9	26	green	48KBAW13DPXG	48KBAW13FVXG		
G 1/4	21	70,5	9	26	red	48KBAW13DPXR	48KBAW13FVXR		
G 1/4	21	70,5	9	26	yellow	48KBAW13DPXY	48KBAW13FVXY		
G 3/8	21	67	9	26	Standard	48KBAW17DPX	48KBAW17FVX	48KBAW17FVP	
G 3/8	21	67	9	26	blue	48KBAW17DPXB	48KBAW17FVXB	48KBAW17FVPB	
G 3/8	21	67	9	26	green	48KBAW17DPXG	48KBAW17FVXG	48KBAW17FVPG	
G 3/8	21	67	9	26	red	48KBAW17DPXR	48KBAW17FVXR	48KBAW17FVPR	
G 3/8	21	67	9	26	yellow	48KBAW17DPXY	48KBAW17FVXY	48KBAW17FVPY	
G 1/2	21	73,5	12	26	Standard	48KBAW21DPX	48KBAW21FVX	48KBAW21FVP	
G 1/2	21	73,5	12	26	blue	48KBAW21DPXB	48KBAW21FVXB		
G 1/2	21	73,5	12	26	green	48KBAW21DPXG	48KBAW21FVXG		
G 1/2	21	73,5	12	26	red	48KBAW21DPXR	48KBAW21FVXR		
G 1/2	21	73,5	12	26	yellow	48KBAW21DPXY	48KBAW21FVXY		
 <p>Male Thread</p>									
G 1/4	21	63,5	10	26	Standard	48KBIW13DPX	48KBIW13FVX	48KBIW13FVP	
G 1/4	21	63,5	10	26	blue	48KBIW13DPXB	48KBIW13FVXB	48KBIW13FVPB	
G 1/4	21	63,5	10	26	green	48KBIW13DPXG	48KBIW13FVXG	48KBIW13FVPG	
G 1/4	21	63,5	10	26	red	48KBIW13DPXR	48KBIW13FVXR	48KBIW13FVPR	
G 1/4	21	63,5	10	26	yellow	48KBIW13DPXY	48KBIW13FVXY	48KBIW13FVPY	
G 3/8	21	63,5	13	26	Standard	48KBIW17DPX	48KBIW17FVX	48KBIW17FVP	
G 3/8	21	63,5	13	26	blue	48KBIW17DPXB	48KBIW17FVXB		
G 3/8	21	63,5	13	26	green	48KBIW17DPXG	48KBIW17FVXG		
G 3/8	21	63,5	13	26	red	48KBIW17DPXR	48KBIW17FVXR		
G 3/8	21	63,5	13	26	yellow	48KBIW17DPXY	48KBIW17FVXY		
G 1/2	21	74,5	13	26	Standard	48KBIW21DPX	48KBIW21FVX	48KBIW21FVP	
G 1/2	21	74,5	13	26	blue	48KBIW21DPXB	48KBIW21FVXB		
G 1/2	21	74,5	13	26	green	48KBIW21DPXG	48KBIW21FVXG		
G 1/2	21	74,5	13	26	red	48KBIW21DPXR	48KBIW21FVXR		
G 1/2	21	74,5	13	26	yellow	48KBIW21DPXY	48KBIW21FVXY		
 <p>Female Thread</p>									
6 x 8 mm	21	80	21	26	Standard		48KBKP08FVX	48KBKP08FVP	
9 x 12 mm	21	87	28	26	Standard		48KBKP12FVX	48KBKP12FVP	
10 x 12 mm	21	87	28	26	Standard		48KBKP12FVXS	48KBKP12FVPS	
 <p>for PVDF- and PE-Hoses</p>									



Couplings – with valve

Series 48KB

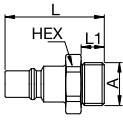
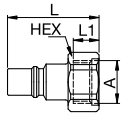
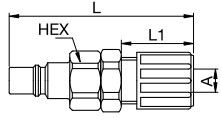
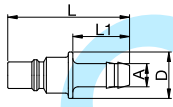
Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
6 mm	21	81	22	26	Standard	48KBTF06DPX	48KBTF06FVX	48KBTF06FVP
6 mm	21	81	22	26	blue	48KBTF06DPXB	48KBTF06FVXB	48KBTF06FVPB
6 mm	21	81	22	26	green	48KBTF06DPXG	48KBTF06FVXG	48KBTF06FVPG
6 mm	21	81	22	26	red	48KBTF06DPXR	48KBTF06FVXR	48KBTF06FVPR
6 mm	21	81	22	26	yellow	48KBTF06DPXY	48KBTF06FVXY	48KBTF06FVPY
9 mm	21	81	22	26	Standard	48KBTF09DPX	48KBTF09FVX	48KBTF09FVP
9 mm	21	81	22	26	blue	48KBTF09DPXB	48KBTF09FVXB	48KBTF09FVPB
9 mm	21	81	22	26	green	48KBTF09DPXG	48KBTF09FVXG	48KBTF09FVPG
9 mm	21	81	22	26	red	48KBTF09DPXR	48KBTF09FVXR	48KBTF09FVPR
9 mm	21	81	22	26	yellow	48KBTF09DPXY	48KBTF09FVXY	48KBTF09FVPY
13 mm	21	84	25	26	Standard	48KBTF13DPX	48KBTF13FVX	48KBTF13FVP
13 mm	21	84	25	26	blue	48KBTF13DPXB	48KBTF13FVXB	
13 mm	21	84	25	26	green	48KBTF13DPXG	48KBTF13FVXG	
13 mm	21	84	25	26	red	48KBTF13DPXR	48KBTF13FVXR	
13 mm	21	84	25	26	yellow	48KBTF13DPXY	48KBTF13FVXY	



Hose Barb

KOLVEN



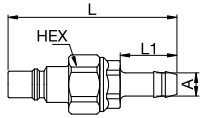
	Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
 <p>Male Thread</p>	G 1/4	17	38,5	9		Standard	48SFAW13DXX	48SFAW13FXX	
	G 3/8	21	38,5	9		Standard	48SFAW17DXX	48SFAW17FXX	
	G 3/8	21	38,5	9		blue		48SFAW17FVXB	
	G 3/8	21	38,5	9		green		48SFAW17FVXG	
	G 3/8	21	38,5	9		red		48SFAW17FVXR	
	G 3/8	21	38,5	9		yellow		48SFAW17FVXY	
	G 1/2	21	41,5	12		Standard	48SFAW21DXX	48SFAW21FXX	
 <p>Female Thread</p>	G 1/4	17	35,5	9		Standard	48SFIW13DXX	48SFIW13FXX	
	G 1/4	17	35,5	9		blue	48SFIW13DPXB		
	G 1/4	17	35,5	9		green	48SFIW13DPXG		
	G 1/4	17	35,5	9		red	48SFIW13DPXR		
	G 1/4	17	35,5	9		yellow	48SFIW13DPXY		
	G 3/8	21	35,5	10		Standard	48SFIW17DXX	48SFIW17FXX	
	G 3/8	21	35,5	10		blue	48SFIW17DXXB	48SFIW17FXXB	
	G 3/8	21	35,5	10		green	48SFIW17DXXG	48SFIW17FXXG	
	G 3/8	21	35,5	10		red	48SFIW17DXXR	48SFIW17FXXR	
	G 3/8	21	35,5	10		yellow	48SFIW17DXXY	48SFIW17FXXY	
	G 1/2	24	59	13		Standard	48SFIW21DXX	48SFIW21FXX	
 <p>for PVDF- and PE-Hoses</p>	6 x 8 mm	21	64,5	21		Standard		48SFKP08FVX	
	9 x 12 mm	21	71,5	28		Standard		48SFKP12FVX	
	10 x 12 mm	21	71,5	28		Standard		48SFKP12FVXS	
 <p>Hose Barb</p>	6 mm		47	22	18	Standard	48SFTF06DXX	48SFTF06FXX	
	6 mm		47	22	18	blue		48SFTF06FVXB	
	6 mm		47	22	18	green		48SFTF06FVXG	
	6 mm		47	22	18	red		48SFTF06FVXR	
	6 mm		47	22	18	yellow		48SFTF06FVXY	
	9 mm		47	22	18	Standard	48SFTF09DXX	48SFTF09FXX	
	9 mm		47	22	18	blue	48SFTF09DPXB	48SFTF09FVXB	
	9 mm		47	22	18	green	48SFTF09DPXG	48SFTF09FVXG	
	9 mm		47	22	18	red	48SFTF09DPXR	48SFTF09FVXR	
	9 mm		47	22	18	yellow	48SFTF09DPXY	48SFTF09FVXY	
	13 mm		50	25	18	Standard	48SFTF13DXX	48SFTF13FXX	



Plugs – with valve

Series 48SB

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
G 1/4	21	55	9		Standard	48SBAW13DPX	48SBAW13FVX	48SBAW13FVP
G 1/4	21	55	9		blue	48SBAW13DPXB	48SBAW13FVXB	48SBAW13FVPB
G 1/4	21	55	9		green	48SBAW13DPXG	48SBAW13FVXG	48SBAW13FVPG
G 1/4	21	55	9		red	48SBAW13DPXR	48SBAW13FVXR	48SBAW13FVPR
G 1/4	21	55	9		yellow	48SBAW13DPXY	48SBAW13FVXY	48SBAW13FVPY
G 3/8	21	51,5	9		Standard	48SBAW17DPX	48SBAW17FVX	48SBAW17FVP
G 3/8	21	51,5	9		blue	48SBAW17DPXB	48SBAW17FVXB	48SBAW17FVPB
G 3/8	21	51,5	9		green	48SBAW17DPXG	48SBAW17FVXG	48SBAW17FVPG
G 3/8	21	51,5	9		red	48SBAW17DPXR	48SBAW17FVXR	48SBAW17FVPR
G 3/8	21	51,5	9		yellow	48SBAW17DPXY	48SBAW17FVXY	48SBAW17FVPY
G 1/2	21	58	12		Standard	48SBAW21DPX	48SBAW21FVX	48SBAW21FVP
G 1/2	21	58	12		blue	48SBAW21DPXB	48SBAW21FVXB	
G 1/2	21	58	12		green	48SBAW21DPXG	48SBAW21FVXG	
G 1/2	21	58	12		red	48SBAW21DPXR	48SBAW21FVXR	
G 1/2	21	58	12		yellow	48SBAW21DPXY	48SBAW21FVXY	
<p>Male Thread</p>								
G 1/4	21	48	10		Standard	48SBIW13DPX	48SBIW13FVX	48SBIW13FVP
G 1/4	21	48	10		blue	48SBIW13DPXB		
G 1/4	21	48	10		green	48SBIW13DPXG		
G 1/4	21	48	10		red	48SBIW13DPXR		
G 1/4	21	48	10		yellow	48SBIW13DPXY		
G 3/8	21	48	10		Standard	48SBIW17DPX	48SBIW17FVX	48SBIW17FVP
G 3/8	21	48	10		blue	48SBIW17DPXB	48SBIW17FVXB	
G 3/8	21	48	10		green	48SBIW17DPXG	48SBIW17FVXG	
G 3/8	21	48	10		red	48SBIW17DPXR	48SBIW17FVXR	
G 3/8	21	48	10		yellow	48SBIW17DPXY	48SBIW17FVXY	
G 1/2	21	59	13		Standard	48SBIW21DPX	48SBIW21FVX	48SBIW21FVP
G 1/2	21	59	13		blue	48SBIW21DPXB	48SBIW21FVXB	
G 1/2	21	59	13		green	48SBIW21DPXG	48SBIW21FVXG	
G 1/2	21	59	13		red	48SBIW21DPXR	48SBIW21FVXR	
G 1/2	21	59	13		yellow	48SBIW21DPXY	48SBIW21FVXY	
<p>Female Thread</p>								
6 x 8 mm	21	64,5	21		Standard		48SBKP08FVX	48SBKP08FVP
9 x 12 mm	21	71,5	28		Standard		48SBKP12FVX	48SBKP12FVP
10 x 12 mm	21	71,5	28		Standard		48SBKP12FVXS	48SBKP12FVPS
<p>for PVDF- and PE-Hoses</p>								



Hose Barb

Connection A	HEX mm	L mm	L1 mm	D mm	Color Sleeve	Part Number POM	Part Number CHEM	Part Number CHEM+
6 mm	21	65,5	22		Standard	48SBTF06DPX	48SBTF06FVX	48SBTF06FVP
6 mm	21	65,5	22		blue		48SBF06FVXB	
6 mm	21	65,5	22		green		48SBTF06FVXG	
6 mm	21	65,5	22		red		48SBTF06FVXR	
6 mm	21	65,5	22		yellow		48SBTF06FVXY	
9 mm	21	65,5	22		Standard	48SBTF09DPX	48SBTF09FVX	48SBTF09FVP
9 mm	21	65,5	22		blue	48SBTF09DPXB	48SBTF09FVXB	
9 mm	21	65,5	22		green	48SBTF09DPXG	48SBTF09FVXG	
9 mm	21	65,5	22		red	48SBTF09DPXR	48SBTF09FVXR	
9 mm	21	65,5	22		yellow	48SBTF09DPXY	48SBTF09FVXY	
13 mm	21	68,5	25		Standard	48SBTF13DPX	48SBTF13FVX	48SBTF13FVP
13 mm	21	68,5	25		blue	48SBTF13DPXB	48SBTF13FVXB	
13 mm	21	68,5	25		green	48SBTF13DPXG	48SBTF13FVXG	
13 mm	21	68,5	25		red	48SBTF13DPXR	48SBTF13FVXR	
13 mm	21	68,5	25		yellow	48SBTF13DPXY	48SBTF13FVXY	

KOVAR S

**Technical Description**

Coupling range in sizes from 1/8" to 1 1/2" with plug profile in accordance with ISO 7241-1 series B. Particularly suitable for use with liquid media.

Coupling system with two-hand operation, i.e. the locking sleeve must be pushed back manually when coupling. The coupling range stands out for its high flow rates against a low pressure drop. 1 1/2" design (series 77) with locking pin and EPDM seal.

Working Temperature*

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

* For temperatures below -20°C and over +90°C and depending on the medium, other seal variants (FKM, FFKM) are available.

**Working Pressure****

see chart

** maximum static working pressure with safety factor 4 to 1.

Other designs in series 70

The following other designs can be found from page:

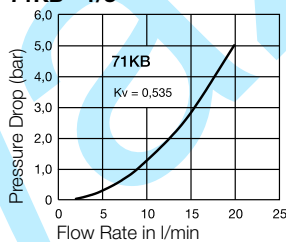
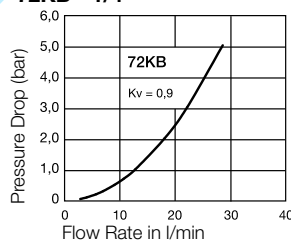
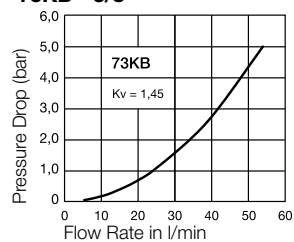
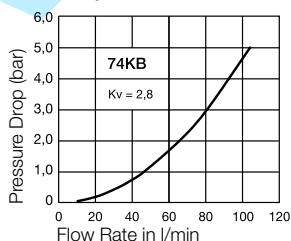
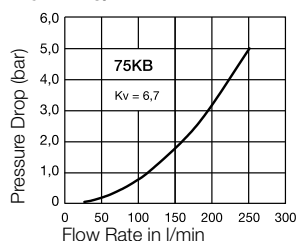
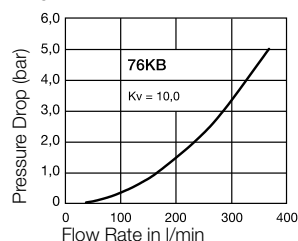
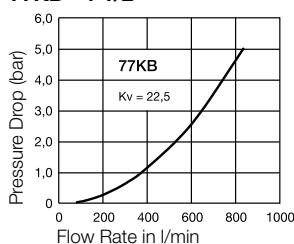
- ▶ Brass / Steel P. 174
- ▶ Stainless Steel P. 224

Material

Coupling: POM white
Plug: POM white
Seals: NBR

Interchangeability

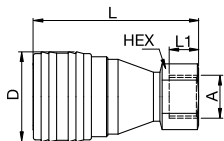
- ISO 7241-1 Series B

Flow diagrams Water**71KB - 1/8"****72KB - 1/4"****73KB - 3/8"****74KB - 1/2"****75KB - 3/4"****76KB - 1"****77KB - 1 1/2"**



Couplings – with valve

Series 70KB



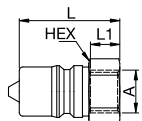
Female Thread

Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Working Pressure max. / bar	Part Number
1/8"	G 1/8	14		48,5	7		24,5		15	71KBIW10DPX
1/4"	G 1/4	19		57,5	10		28,5		15	72KBIW13DPX
3/8"	G 3/8	22		64	11,5		35		15	73KBIW17DPX
1/2"	G 1/2	27		76	16		44,5		10	74KBIW21DPX
3/4"	G 3/4	34		96	24		55		10	75KBIW26DPX
1"	G 1	41		105,5	24		62		10	76KBIW33DPX
1 1/2"	G 1 1/2	60		133	23		76		10	77KBIW48DEXS



Plugs – with valve

Series 70KB



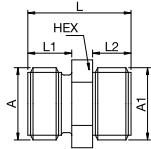
Female Thread

Size	Connection A	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	D mm	B mm	Working Pressure max. / bar	Part Number
1/8"	G 1/8	14		29,5	7				15	71SBIW10DPX
1/4"	G 1/4	19		35	10				15	72SBIW13DPX
3/8"	G 3/8	22		39	11,5				15	73SBIW17DPX
1/2"	G 1/2	27		48	16				10	74SBIW21DPX
3/4"	G 3/4	36		60	24				10	75SBIW26DPX
1"	G 1	41		56	24				10	76SBIW33DPX
1 1/2"	G 1 1/2	60		132	23				10	77SBIW48DEX



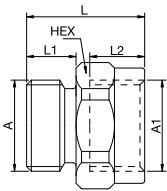
Plastic fittings

Male x Male Nipple



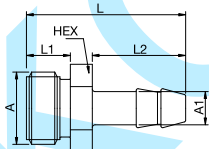
Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	G 1/8	14		19	8	7				DN13/10DX	DN13/10FX
G 1/4	G 1/4	14		19	8	7				DN13/13DX	DN13/13FX
G 3/8	G 1/4	17		28,5	9	9				DN17/13DX	DN17/13FX
G 3/8	G 3/8	21		25	9	9				DN17/17DX	DN17/17FX
G 3/8	G 1/2	21		31,5	9	12				DN17/21DX	DN17/21FX

Reducing Bush



Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	G 1/8	14		22	8	8				RL13/10DX	RL13/10FX
G 1/4	G 1/4	17		25	8	10				RL13/13DX	RL13/13FX
G 3/8	G 1/4	17		21,5	9	10				RL17/13DX	RL17/13FX
G 3/8	G 3/8	21		21,5	9	10				RL17/17DX	RL17/17FX
G 3/8	G 1/2	17		32,5	9	13				RL17/21DX	RL17/21FX

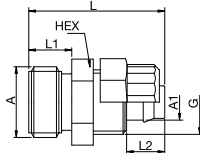
Hose Tail Barb



Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 mm	14		29	8	17				GT13/04DX	GT13/04FX
G 1/4	6 mm	14		29	8	17				GT13/06DX	GT13/06FX
G 3/8	6 mm	17		39	9	22				GT17/06DX	GT17/06FX
G 3/8	9 mm	17		39	9	22				GT17/09DX	GT17/09FX
G 3/8	10 mm	17		39	9	22				GT17/10DX	
G 3/8	13 mm	17		42	9	25				GT17/13DX	GT17/13FX

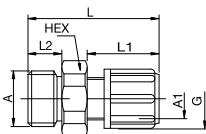
Plastic Screw Connector

Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 x 6 mm	14		25	8	13			M 10 x 1	EV13/06DX	EV13/06FX
G 1/4	6 x 8 mm	14		25	8	13			M 12 x 1	EV13/08DX	EV13/08FX



Fitting for hard plastic hoses

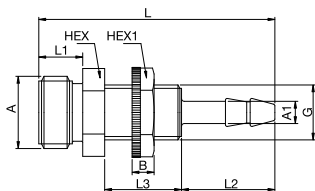
Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 x 6 mm	17		31	17	8			M 10 x 1		EV13/06FX04
G 1/4	6 x 8 mm	17		35	21	8			M 12 x 1		EV13/08FX06
G 3/8	6 x 8 mm	22		38	21	9			M 12 x 1		EV17/08FX06
G 3/8	9 x 12 mm	22		45	28	9			M 12 x 1		EV17/12FX09
G 3/8	10 x 12 mm	22		45	28	9			M 12 x 1		EV17/12FX10



for hard plastic hoses in PVDF or PE

Panel Mount, Standard Hose Connection

Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 mm	14	14	43	7	8	14	4	M 10 x 1	ET13/04DX	ET13/04FX
G 1/4	6 mm	14	17	43	8	8	14	4	M 12 x 1	ET13/06DX	ET13/06FX



Panel Mount, Plastic Hose Connection

Connection A	Connection A1	HEX mm	HEX1 mm	L mm	L1 mm	L2 mm	L3 mm	B mm	G mm	POM design Part Number	CHEM design Part Number
G 1/4	4 x 6 mm	14	14	37	7	8	18	4	M 10 x 1	EK13/06DX	EK13/06FX
G 1/4	6 x 8 mm	14	17	37	8	8	18	4	M 12 x 1	EK13/08DX	EK13/08FX

