

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.

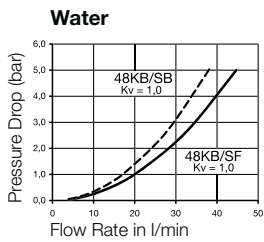
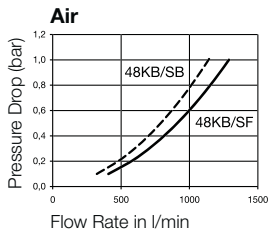
Working Temperature

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

75% of actual size



Chart



Material

Coupling

Valve Body
 Sleeve
 Valve
 Springs
 Locking System
 Seals
 Back Body

RectuPom

POM, black
 POM, black
 POM, black
 AISI 316 Ti
 POM, black
 NBR
 POM, black

RectuChem

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

RectuChem+

PVDF, white
 PVDF, white
 PVDF, white
 PEEK 450G
 PEEK 450G
 FKM
 PVDF, white

Plug

Plug Profile
 Valve
 Spring
 Adapter
 Seal

POM, black
 POM, black
 AISI 316 Ti
 POM, black
 NBR

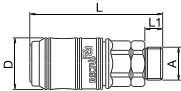
PVDF, white
 PVDF, white
 AISI 316 Ti
 PVDF, white
 FKM

PVDF, white
 PVDF, white
 PEEK 450G
 PVDF, white
 FKM

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

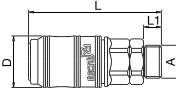
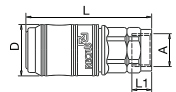
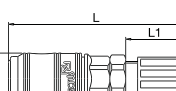
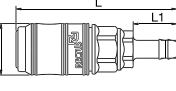


Male Thread

⚠ Please consider our security advices on the pages 12/13 ⚠

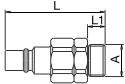
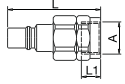
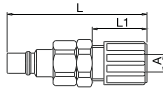
Couplings

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											
										blue	48KB IW13 DPXB	48KB IW13 FVXB	48KB IW13 FVPB											
										green	48KB IW13 DPXG	48KB IW13 FVXG	48KB IW13 FVPG											
										red	48KB IW13 DPXR	48KB IW13 FVXR	48KB IW13 FVPR											
										yellow	48KB IW13 DPXY	48KB IW13 FVXY	48KB IW13 FVPY											
	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										
											yellow	48KB IW17 DPXY	48KB AW17 FVXY	48KB IW17 FVPY										
											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																					
yellow	48KB IW21 DPXY	48KB IW21 FVXY	48KB IW21 FVPY																					
 <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											
 <p>Hose Barb</p>	6 mm	21	81	26	22					Standard	48KB TF06 DPX	48KB TF06 FVX	48KB TF06 FVP											
										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											
	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										

Valved Plugs

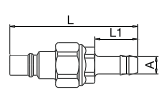
RECTUS Series 48SB

	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	
 <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	

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Valved Plugs RECTUS Series 48SB

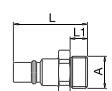
Connection A	Hex SW	L mm	D mm	L1 mm	L2 mm	Hex1 SW1	B mm	G mm	Color	Rectu POM Part Number	Rectu CHEM Part Number	Rectu CHEM+ Part Number
6 mm	21	65,5		22					Standard	48SB TF06 DPX	48SB TF06 FVX	48SB TF06 FVP
									blue	48SB TF06 DPXB	48SB TF06 FVXB	48SB TF06 FVPB
									green	48SB TF06 DPXG	48SB 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



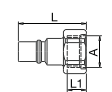
Hose Barb

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

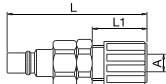
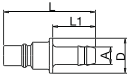
Plugs

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	
 Female Thread	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	
 for PVDF- and PE-Hoses	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		
 Hose Barb	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		
	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	
	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		

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