



Data sheet

Quick connect coupling

Series 21

Coupling: 21KB

Plug: 21SB

DN: 5 = 20 mm²

Working pressure (static): 0 up to 10 bar (POM-version, 20°C)
 0 up to 8 bar (PVDF-version, 20°C)

Working temperature: -20°C up to +80°C (POM-version, depending on the seal material and medium)
 -20°C up to +120°C (PVDF-version, depending on the seal material and medium)

Single shut off	<input type="checkbox"/>	Single hand operation	<input checked="" type="checkbox"/>	ULTRA-FLO-Valve	<input type="checkbox"/>
Double shut off	<input checked="" type="checkbox"/>	Two hand operation	<input type="checkbox"/>	Pipe-valve	<input type="checkbox"/>
Straight through	<input type="checkbox"/>	Ball locking system	<input type="checkbox"/>	U-Cup-Seal	<input type="checkbox"/>
Self venting	<input type="checkbox"/>	Pin locking system	<input type="checkbox"/>	O-Ring-Seal	<input checked="" type="checkbox"/>
Safety lock	<input type="checkbox"/>	Coupling anti-splash	<input checked="" type="checkbox"/>	Pawl Locking System	<input checked="" type="checkbox"/>
Dry Break	<input type="checkbox"/>	Plug anti-splash	<input type="checkbox"/>		<input type="checkbox"/>

Materials:	Version	
	RectuPOM Standard	RectuCHEM Standard
Back body	POM, black	PVDF, white
Sleeve	POM, black	PVDF, white
Valve	POM, black	PVDF, white
Spring	AISI 301	AISI 316 L
Pawl Locking System	POM, black	PVDF, white
Seals	Buna N	Viton
Back Body	POM, black	PVDF, white
Plug Profil	POM, black	PVDF, white
Adapter	POM, black	PVDF, white

Description:
 The 21KB series made of POM and PVDF is the next step in the evolution of material for couplings. The coupling is fitted with a shut-off valve which enables it to be connected to a single shut-off plug(non-valved) as well as a double shut-off plug (valved). The 21KB series eliminates the danger of mix-ups by colour coding of the coupling and the respective plug. This guarantees the elimination of mix-ups when mediums are connected. The 21KB series can be used for medical engineering, food sector, gases, liquids, drinking water or in laboratories.

Interchangeability:
 -

Versions / special equipment (in part not for all versions, others upon request):
 seal material Buna N, Viton, Kalrez, Ethylen-Propylen;
 other materials on request;
 oil and grease free, silicon free;

Test values at 20°C (depending on the version):

Flow-rate air:	320 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	2,7 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 13 g
Vacuum plug:	min. 87 %	Weight plug:	app. 5 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. 0,55 ml
Connecting force:	w/o pressure app. 60 N	at 6 bar inlet pressure	app. 100 N
Disconnecting force:	w/o pressure app. 10 N	at 6 bar inlet pressure	app. 26 N
Safety factor:	at least 4-times	Burst-pressure:	at least 40 bar
Fatigue:	5000 cycles connecting/disconnecting tightness and function O.K.		

uncoupled autoclaved : POM-version 10 times at 121°C and PVDF-version unlimited at 121°C

Revision	Date	Name		Date	Name	Document-no.: DB-21KB-SB-THERMOPLASTIC
			Made.	21.04.04	schwab	
			Check	21.04.04	schwab	
			Stand.			