



## Data sheet

### Quick connect coupling

## Series 21

Coupling: 21KB

Plug: 21SF

DN: 5 = 20 mm<sup>2</sup>

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

Working temperature: -20°C up to +80°C (POM)  
-20°C up to +120°C (PVDF)

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
Valve Body	POM, black	PVDF, white
Sleeve	POM, black	PVDF, white
Valve	POM, black	PVDF, white
Spring	AISI 301	AISI 316 L
Locking Pawl	POM, black	PVDF, white
Back Body	POM, black	PVDF, white
Seals	Buna N	Viton
Plug Profile	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 (valved) plug. The 21KB series eliminates the danger of mix-ups by color 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: 500 l/min at 6 bar inlet pressure and 0,5 bar pressure drop  
Flow-rate water: 7 l/min at 0,5 bar pressure drop

Vacuum coupling:	min. 96 %	Weight coupling:	app. 13 g
Vacuum plug:	min. - %	Weight plug:	app. 9 g
Vacuum connected:	min. 96 %	Leakage rate / dead volume:	app. - 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 32 bar

Fatigue: 5000 cycles connecting/disconnecting tightness and function O.K.

Revision	Date	Name		Date	Name	Document-no.:  <b>DB-21KB-SF-Thermoplastic-engl</b>
			Made.	15.04.04	schwab	
			Check	15.04.04	schwab	
			Stand.			