



## Data sheet

### Quick connect coupling

## Series 21

Coupling: 21KL

Plug: 21SL

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

Working pressure (static): 0 up to 8 bar

Working temperature: -20°C up to +100°C (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 checked="" 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"/>		<input type="checkbox"/>
Dry Break	<input checked="" type="checkbox"/>	Plug anti-splash	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Materials:	Version		
	Standard	AISI 303	AISI 316 Ti
Back body	Brass	AISI 303	AISI 316 Ti
Valve body	Brass	AISI 303	AISI 316 Ti
Sleeve	Brass	AISI 303	AISI 316 Ti
Valve	Brass	AISI 303	AISI 316 Ti
Spring	AISI 301	AISI 301	AISI 316 Ti
Locking Balls / Pins	AISI 420	AISI 420	AISI 316
Seals	Buna N	Viton	Viton
Plug	Brass	AISI 303	AISI 316 Ti

#### Description:

The series 21KL is a double shut-off coupling in which both couplings and plugs are fitted with valves. The valves in both the coupling and the plug are opened when connected. Both valves close virtually simultaneously when disconnected, ensuring minimum leakage loss. The coupling offers single handed operation, extremely compact dimensions and high flow rate with a multitude of connecting possibilities e.g. with air tools, pneumatic, medical engineering, breathing air, diving equipment, measuring and control equipment, laboratory installations, chemistry, analysis and dosage engineering.

#### Interchangeability:

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#### Versions / special equipment (in part not for all versions, others upon request):

seal material Buna N, Viton, Kalrez, Ethylen-Propylen;  
 surface nickel plated, chrome plated, durnicoat;  
 oil and grease free, silicon free;

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

Flow-rate air: 175 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. 43 g
Vacuum plug:	min. 87 %	Weight plug:	app. 39 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. 0,0006 ml

Connecting force:	w/o pressure app. 35 N	at 6 bar inlet pressure	app. 60 N
Disconnecting force:	w/o pressure app. 10 N	at 6 bar inlet pressure	app. 15 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-21KL-SL-engl</b>
A	29.06.04	schwab	Made.	15.03.04	schwab	
B	25.07.05	schwab	Check	15.03.04	schwab	
			Stand.			