



## Data sheet

### Quick connect coupling

## Series 21

Coupling: 21KD

Plug: 21SD

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

Working pressure (static): 0 up to 35 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 checked="" type="checkbox"/>	Coupling anti-splash	<input type="checkbox"/>		<input type="checkbox"/>
Dry Break	<input type="checkbox"/>	Plug anti-splash	<input type="checkbox"/>		<input type="checkbox"/>

#### Materials:

	Standard	Version
Back body (KD/SD)	Brass, nickel plated	
Valve body	Brass, nickel plated	
Sleeve	Brass, nickel plated	
Valve (KD/SD)	Brass	
Spring	1.4310	
Locking Balls	1.4034	
Seals	Buna N	
Plug	Brass, nickel plated	

#### Description:

The series 21KD is a double shut-off coupling with a safety locking system. The coupling can be used single-handed. During connection, the plug is simply pushed into the coupling and in order to release the plug from the coupling, the plug is pushed into the coupling thus unintentional disconnection is prevented. Both the coupling and plug are fitted with a valve. The 21 series is a small coupling with a high flow rate and a multitude of connecting possibilities, e.g. breathing air, laboratory engineering and medical 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. 0,6 ml
Connecting force:	w/o pressure app. 40 N	at 6 bar inlet pressure	app. 80 N
Disconnecting force:	w/o pressure app. 40 N	at 6 bar inlet pressure	app. 80 N
Safety factor:	at least 4-times	Burst-pressure:	at least 140 bar
Fatigue:	5000 cycles connecting/disconnecting tightness and function O.K.		

Revision	Date	Name		Date	Name	Document-no.:  <b>DB-21KD-SD-engl</b>
A	10.05.04	schwab	Made.	10.06.03	Zahn	
			Check	11.06.03	Zahn	
			Stand.			