



Data sheet

Quick connect coupling

Series 21

Coupling: 21KS

Plug: 21SS

DN: 5 = 20 mm²

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 checked="" type="checkbox"/>	Single hand operation	<input checked="" type="checkbox"/>	ULTRA-FLO-Valve	<input type="checkbox"/>
Double shut off	<input 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:

	Version	
	Standard	Nickel Plated
Back body	Brass	Brass, nickel plated
Valve body	Brass	Brass, nickel plated
Sleeve	Brass	Brass, nickel plated
Valve	Brass	Brass
Spring	AISI 301	AISI 301
Locking Balls / Pins	AISI 420	AISI 420
Seals	Buna N	Buna N
Plug	Brass	Brass, nickel plated

Description:

The 21KS series is similar to our 21KA series which has a proven track record for reliability, however, it also uses an additional safety lockin system. The plug must first be pushed further into the coupling before it can be disconnected. This prevents unintentional disconnecting. The 21KS series can be used for many applications for example breathing air, laboratory installations, medical engineering.

Interchangeability:

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

seal material 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: 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. 87 %	Weight coupling:	app. 42 g
Vacuum plug:	min. - %	Weight plug:	app. 23 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. - 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 140 bar

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

Revision	Date	Name		Date	Name	Document-no.: DB-21KS-SS-engl
			Made.	27.02.04	schwab	
			Check	27.02.04	schwab	
			Stand.			