



Data sheet

Quick connect coupling

Series 21

Coupling: 21KB

Plug: 21SB

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 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 type="checkbox"/>		<input type="checkbox"/>
Dry Break	<input type="checkbox"/>	Plug anti-splash	<input type="checkbox"/>		<input type="checkbox"/>

Materials:	Version		
	Standard	AISI 303	AISI 316 L
Back body	Brass	AISI 303	AISI 316 L
Valve body	Brass	AISI 303	AISI 316 L
Sleeve	Brass	AISI 303	AISI 316 L
Valve	Brass	AISI 303	AISI 316 L
Spring	AISI 301	AISI 301	AISI 316 Ti
Locking Balls / Pins	AISI 420	AISI 420	AISI 316
Seals	NBR	FKM	FKM
Plug	Brass	AISI 303	AISI 316 L

Description:

The series 21KB 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 NBR, FKM, EPDM, FFKM
 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. 10 N	at 6 bar inlet pressure	app. 20 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-21KB-SB-engl
A	07.05.04	schwab	Made.	13.12.02	Zahn	
B	07.07.06	Zahn	Check	13.12.02	Zahn	
			Stand.			