



## Data sheet

### Quick connect coupling

## Series 21

Coupling: 21KA

Plug: 21SF

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 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 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 316	AISI 316
Seals	Buna N	Viton	Viton
Plug	Brass	AISI 303	AISI 316 L

**Description:**

The series 21 is a standard quick connect coupling with single-hand operation. The coupling allows a high flow rate in small designs. This coupling is ideal wherever space plays a major role. The series 21 allows numerous connecting possibilities and is thus versatile, e.g. at air-pressure tools, medical engineering, laboratory installations, chemistry, measuring and control equipment, mechanical engineering etc.

**Interchangeability:**

RECTUS Series 90, Camozzi, EWO, Kani

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

seal material NBR, EPDM, FKM, 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:	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.:  <b>DB-21KA-SF-engl</b>
A	13.12.04	schwab	Made.	13.08.02	Djelic	
B	12.03.08	Zahn	Check	14.08.02	Zahn	
			Stand.			