



Data sheet

Quick connect coupling

Series 20

Coupling: 20KA

Plug: 20SF

DN: 2,7 = 6 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 type="checkbox"/>	Coupling anti-splash <input type="checkbox"/>	
Dry Break <input type="checkbox"/>	Plug anti-splash <input type="checkbox"/>	

Materials:	Standard	Version 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 20 is the second smallest single hand operated quick connect coupling on the market. The coupling allows a high flow-rate with low pressure loss in extremely small dimensions. Due to the numerous connecting options the series 20 is variously usable e. g. medical engineering, dental equipment, laboratory installations, chemistry, measuring and control equipment, analysis engineering, mini pneumatic, mechanical engineering.

Interchangeability:

RECTUS Series 91, WALTHER 06-003

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:	165 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	1,5 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 11 g
Vacuum plug:	min. - %	Weight plug:	app. 5 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. - ml
Connecting force:	w/o pressure app. 25 N	at 6 bar inlet pressure	app. 35 N
Disconnecting force:	w/o pressure app. 5 N	at 6 bar inlet pressure	app. 7 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.:
			Made.	20.11.02	Zahn	DB-20KA-SF-engl
			Check	21.11.02	Zahn	
			Stand.			