



Data sheet

Quick connect coupling

Series 27

Coupling: 27KA

Plug: 27SF

DN: 10 = 80 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 checked="" 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 checked="" type="checkbox"/>
Self venting <input type="checkbox"/>	Pin locking system <input type="checkbox"/>	O-Ring-Seal <input type="checkbox"/>
Safety lock <input type="checkbox"/>	Coupling anti-splash <input checked="" 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 Ti
Back body	Brass, nickel plated	AISI 303	AISI 316 Ti
Valve body	Brass, nickel plated	AISI 303	AISI 316 Ti
Sleeve	Steel, hardened, nickel plated	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	Steel, hardened, nickel plated	AISI 303	AISI 316 Ti

Description:
 The 27KA series is a robust quick connect coupling with one hand operation and due to the ULTRA-FLOW valve a high flow rate. The coupling valve seals during the coupling process. The 27KA series has many connecting options and can be used for many applications for example high performance air tools, production lines, construction and mechanical engineering.

Interchangeability:
 CEJN 410

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:	2340 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	31 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 140 g
Vacuum plug:	min. - %	Weight plug:	app. 55 g
Vacuum connected:	min. - %	Leakage rate / dead volume:	app. - ml
Connecting force:	w/o pressure app. 60 N	at 6 bar inlet pressure	app. 180 N
Disconnecting force:	w/o pressure app. 25 N	at 6 bar inlet pressure	app. 45 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-27KA-SF-engl
			Made.	17.03.04	schwab	
			Check	17.03.04	schwab	
			Stand.			