



Data sheet

Quick connect coupling

Series 1700

Coupling: 1700KA

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

Materials:

Standard

Version

Back body	Brass, nickel plated	
Valve body	Steel, QPQ plated	
Sleeve	Brass, nickel plated	
Valve	Brass	
Spring	AISI 301	
Locking Balls / Pins	AISI 420	
Seals	Buna N	
Plug	Steel, hardened, zink plated colorless chromated	

Description:

The 1700KA series is a robust one-hand coupling which combines a high flow rate and low pressure drop through the used ULTRA-FLO valve. The 1700KA series can be used in many applications for example laboratory installations, mechanical engineering, chemistry, measuring and control equipment, breathing air, diving equipment, safety engineering.

Interchangeability:

RECTUS 27 Series, RECTUS 1727 Series, TEMA 1700 Series , CEJN 410 Series

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:	3515 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	51 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. - %	Weight coupling:	app. 155 g
Vacuum plug:	min. - %	Weight plug:	app. 60 g
Vacuum connected:	min. - %	Leakage rate / dead volume:	app. - ml
Connecting force:	w/o pressure app. 30 N	at 6 bar inlet pressure	app. 75 N
Disconnecting force:	w/o pressure app. 14 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-1700KA-SF-engl
			Made.	30.05.05	schwab	
			Check	30.05.05	schwab	
			Stand.			