



## Data sheet

### Quick connect coupling

## Series 1700

Coupling: 1700KB

Plug: 27SB

DN: 10 = 80 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 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 checked="" 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	Braas,nickel plated
Sleeve	Brass, nickel plated
Valve	Brass
Spring	AISI 301
Locking Balls / Pins	AISI 420
Seals	NBR
Plug	Brassn nickel plated

#### Description:

The 1700KB series is a robust one-hand double shut-off coupling which combines a high flow rate and low pressure drop through the used ULTRA-FLO valve. The 1700KB 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 FKM, EPDM, FFKM

#### Test values at 20°C (depending on the version):

Flow-rate air: 1050 l/min at 6 bar inlet pressure and 0,5 bar pressure drop  
 Flow-rate water: 13 l/min at 0,5 bar pressure drop

Vacuum coupling: -	Weight coupling: app. 165 g
Vacuum plug: -	Weight plug: app. 85 g
Vacuum connected: -	Leakage rate / dead volume: app. - ml

Connecting force: w/o pressure app. 35 N	at 6 bar inlet pressure app. 115 N
Disconnecting force: w/o pressure app. 20 N	at 6 bar inlet pressure app. 30 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.	30.05.05	schwab	DB-1700KB-SB-engl
			Check	30.05.05	schwab	
			Stand.			