



# Data sheet

## Quick connect coupling

## Series 18

Coupling: 18KA

Plug: 18SF

DN: 5,5 = 25 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 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	Brass, nickel plated
Sleeve	Steel, hardened, nickel plated
Valve	Zinc die-casting, nickel plated
Inner Sleeve, Spring Plate	Brass
Locking Balls	AISI 301
Spring	AISI 420
Seals	Buna N
Plug	Steel, hardened, nickel plated

**Description:**

The simple operation and slim, compact construction are the most important features of the 18 series. The ULTRA-FLOW valve allows considerably more flow with low pressure drop. The advantages of the 18 series are flow-optimised ULTRA-FLOW valve, single hand operation as well as underpinning of O-ring. The 18 series can be used in many applications for example medical engineering, refill systems, compressed air systems, air tools. Limited use for liquids because of the zinc die-casting valve and the sleeve (steel hardened).

**Interchangeability:**

STÄUBLI RBE06, CEJN 291, OETIKER, ISO C 6150 C

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

seal material 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: 890 l/min at 6 bar inlet pressure and 0,5 bar pressure drop

Flow-rate water: 12,7 l/min at 0,5 bar pressure drop

Vacuum coupling: min. 87 %

Vacuum plug: min. - %

Vacuum connected: min. 87 %

Weight coupling: app. 102 g

Weight plug: app. 23 g

Leakage rate / dead volume: app. - ml

Connecting force: w/o pressure app. 40 N

Disconnecting force: w/o pressure app. 16 N

at 6 bar inlet pressure app. 110 N

at 6 bar inlet pressure app. 26 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.

25.02.04

schwab

Check

25.02.04

schwab

Stand.

DB-18KA-SF-engl