



Data sheet

Quick connect coupling

Series 51

Coupling: 51KB

Plug: 51SB

DN: 6 = 30 mm²

Working pressure (static): 0 up to 50 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 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"/>		<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, nickel plated	
Sleeve	Steel, hardened, nickel plated	
Valve	Brass, nickel plated	
Spring	AISI 301	
Locking Balls / Pins	AISI 420	
Seals	Buna N	
Plug	Steel, hardened, nickel plated	

Description:

The 51KB series is a one hand quick connect coupling made of steel with a good flow rate. The 51KB coupling can be used with a shut-off plug as well as with a straight through plug. Mainly the 51KB series is used for air tools, measuring and control equipment, breathing air, machinery and plant engineering.

Interchangeability:

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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: 640 l/min at 6 bar inlet pressure and 0,5 bar pressure drop
 Flow-rate water: 9 l/min at 0,5 bar pressure drop

Vacuum coupling:	min. 87 %	Weight coupling:	app. 150 g
Vacuum plug:	min. 87 %	Weight plug:	app. 45 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. - ml

Connecting force:	w/o pressure app. 35 N	at 6 bar inlet pressure	app. 95 N
Disconnecting force:	w/o pressure app. 20 N	at 6 bar inlet pressure	app. 26 N

Safety factor: at least 4-times Burst-pressure: at least 200 bar

Fatigue: 5000 cycles connecting/disconnecting tightness and function O.K.

Revision	Date	Name		Date	Name	Document-no.: DB-51KB-SB-engl
			Made.	13.04.04	schwab	
			Check	13.04.04	schwab	
			Stand.			