



Data sheet

Quick connect coupling

Series 27

Coupling: 27KB

Plug: 27SB

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 type="checkbox"/>	Single hand operation	<input checked="" type="checkbox"/>	ULTRA-FLO-Valve	<input checked="" 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 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 L
Back body	Brass	AISI 303	AISI 316 L
Valve body	Brass	AISI 303	AISI 316 L
Sleeve	Brass	AISI 303	AISI 316 L
Valve	Brass	AISI 303	AISI 316 L
Spring	AISI 301	AISI 301	AISI 316 Ti
Locking Balls / Pins	AISI 420	AISI 420	AISI 316
Seals	NBR	FKM	FKM
Plug	Brass	AISI 303	AISI 316 L

Description:

The series 27 KB is the double shut-off version of our well proven 27KA compressed air model. The valve in the coupling and plug open when connected. Both valves close virtually simultaneously when disconnected thus ensuring a minimum leakage loss. The coupling can be used single handed and a smooth operation is ensured due to the ball-locking system. All individual parts are made out of non-corrosive materials. The coupling can be used in the laboratory equipment, air and gas media and air-pressure applications.

Interchangeability:

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

seal material NBR, FKM, EPDM, FFKM
 surface nickel plated, chrome plated, durnicoat;
 oil and grease free, silicon free;

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

Flow-rate air: 950 l/min at 6 bar inlet pressure and 0,5 bar pressure drop
 Flow-rate water: 14,1 l/min at 0,5 bar pressure drop

Vacuum coupling: min. 87 % Vacuum plug: min. 87 % Vacuum connected: min. - %	Weight coupling: app. 140 g Weight plug: app. 90 g Leakage rate / dead volume: app. 2,2 ml
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Connecting force: w/o pressure app. 60 N Disconnecting force: w/o pressure app. 25 N	at 6 bar inlet pressure app. 180 N at 6 bar inlet pressure app. 45 N
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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-27KB-SB-engl
A	17.03.04	schwab	Made.	26.11.02	Zahn	
B	13.05.04	schwab	Check	27.11.02	Zahn	
C	07.07.06	Zahn	Stand.			