Data sheet

Quick connect coupling

Series 25

Coupling: 25KB Plug: 25SB DN: 7,4 = 43 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	☐	Single hand operation	☒	ULTRA-FLO-Valve	☒
Double shut off	☒	Two hand operation	☐	Pipe-valve	☐
Straight through	☐	Ball locking system	☒	U-Cup-Seal	☒
Self venting	☐	Pin locking system	☐	O-Ring-Seal	☐
Safety lock	☐	Coupling anti-splash	☒		☐
Dry Break	☐	Plug anti-splash	☒		☐

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 25KB is a double shut off version of our very popular 25KA compressed air model and is most suitable for liquid mediums. The valves in both the coupling and the plug are opened when connected. Both valves close virtually simultaneously when disconnected, ensuring 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 laboratory equipment, air and gas media and air-pressure applications.

Interchangeability:

RECTUS series 26KB

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: 716 l/min at 6 bar inlet pressure and 0,5 bar pressure drop
Flow-rate water: 7,1 l/min at 0,5 bar pressure drop

Vacuum coupling:	min. 87 %	Weight coupling:	app. 105 g
Vacuum plug:	min. 87 %	Weight plug:	app. 60 g
Vacuum connected:	min. - %	Leakage rate / dead volume:	app. 1,5 ml
Connecting force:	w/o pressure app. 40 N	at 6 bar inlet pressure	app. 120 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.:
A	13.05.04	schwab	Made.	22.11.02	Zahn	
B	07.07.06	Zahn	Check	27.11.02	Zahn	DB-25KB-SB-engl
			Stand.			