



Data sheet

Quick connect coupling

Series 25

Coupling: 25KL

Plug: 25SL

DN: 7,4 = 42 mm²

Working pressure (static): 0 up to 8 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 checked="" type="checkbox"/>		<input type="checkbox"/>
Dry Break	<input checked="" type="checkbox"/>	Plug anti-splash	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Materials:	Version		
	Standard	AISI 303	AISI 316 Ti
Back body	Brass, nickel plated	AISI 303	AISI 316 Ti
Valve body	Brass, nickel plated	AISI 303	AISI 316 Ti
Sleeve	Brass, nickel plated	AISI 303	AISI 316 Ti
Valve	Brass	AISI 303	AISI 316 Ti
Spring	AISI 301	AISI 301	AISI 316 Ti
Locking Balls / Pins	AISI 420	AISI 420	AISI 316
Seals	Buna N	Viton	Viton
Plug	Brass	AISI 303	AISI 316 Ti

Description:

The series 25KL is a double shut off, dry break 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 simultaneously when disconnected, ensuring no 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:

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:	- 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. 87 %	Leakage rate / dead volume:	app. 0,001 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 32 bar
Fatigue:	5000 cycles connecting/disconnecting tightness and function O.K.		

Revision	Date	Name		Date	Name	Document-no.: DB-25KL-SL-engl
A	02.02.06	Zahn	Made.	08.03.04	schwab	
			Check	08.03.04	schwab	
			Stand.			