



Data sheet

Quick connect coupling

Series 25

Coupling: 25KD

Plug: 25SD

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	<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 type="checkbox"/>
Self venting	<input type="checkbox"/>	Pin locking system	<input type="checkbox"/>	O-Ring-Seal	<input checked="" type="checkbox"/>
Safety lock	<input checked="" 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	Brass, nickel plated	
Valve	Brass	
Spring	AISI 301	
Locking Balls / Pins	AISI 420	
Seals	Buna N	
Plug	Brass, nickel plated	

Description:

The 25KD series is a double shut-off coupling with a safety lock. During connection, the valves in the coupling and plug open. Disconnection is only possible once the plug has been pushed further into the coupling. The valves shut almost simultaneously, thus little leakage. Single-hand operation is possible and the coupling is easy to use due to the ball locking system. The coupling has a multitude of connecting possibilities, for e.g. breathing apparatus, medical engineering, laboratory and diving equipment etc.

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: 710 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. 125 g
Vacuum plug:	min. 87 %	Weight plug:	app. 60 g
Vacuum connected:	min. - %	Leakage rate / dead volume:	app. 1,1 ml

Connecting force:	w/o pressure app. 40 N	at 6 bar inlet pressure	app. 120 N
Disconnecting force:	w/o pressure app. 40 N	at 6 bar inlet pressure	app. 120 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.: DB-25KD-SD-engl
			Made.	01.04.03	Zahn	
			Check	01.04.03	Zahn	
			Stand.			