Data sheet

Quick connect coupling

Series 18

Coupling: 18KE Plug: 18SF DN: 5,5 = 25 mm²

Working pressure (static): 0 up to 8 bar

Working temperature: -20°C up to +60°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		
Back body	Brass, nickel plated		
Valve body	Steel, nickel plated		
Sleeve	Brass, nickel plated		
Valve	Brass		
Spring	AISI 301		
Locking Balls / Pins	AISI 420		
Seals	Buna N		
Plug	Steel, hardened, nickel plated		

Description:

The RectuSafe Serie 18KE is a safety coupling with an self venting system. It is connected in the same manner as all standard couplings - single handed operation. When the sleeve is pushed back the plug is released, however, it still remains locked to the coupling. The coupling valve closes while the downstream air supply line is vented simultaneously. Afterward it can be disconnected without any danger by pushing the sleeve back a second time to completely release the plug from the coupling. The system fulfils the requirements stipulated in ISO 4414 for increased safety standards in the working place and is BIA certified. The Series 18KE can be used for e.g. industrial equipment, garage equipment, assembly line.

Interchangeability:

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

seal material 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:	925 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	- l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 186 g
Vacuum plug:	min. - %	Weight plug:	app. 31 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. - ml
Connecting force:	w/o pressure app. 40 N	at 6 bar inlet pressure	app. 126 N
Disconnecting force:	w/o pressure app. 6 N	at 6 bar inlet pressure	app. 18 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.:
			Made.	26.02.04	schwab	DB-18KE-SF-engl
			Check	26.02.04	schwab	
			Stand.			