



Data sheet

Quick connect coupling

Series 23

Coupling: 23KA

Plug: 23SF

DN: 5,5 = 25 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 checked="" type="checkbox"/>	Single hand operation <input checked="" type="checkbox"/>	ULTRA-FLO-Valve <input checked="" type="checkbox"/>
Double shut off <input 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 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	Steel, hardened, nickel plated		
Valve	Zinc die-casting, nickel plated		
Inner Sleeve, Spring Plate	Brass		
Spring	AISI 301		
Locking Balls	AISI 420		
Seal	Buna N		
Plug	Steel, hardened, nickel plated		

Description:

The 23KA series is the optimum flow alternative to the 24 series. It is fitted with the ULTRA-FLOW valve and can also be used with large compressed air tools. For use with liquids there is a special valve made out of brass. The advantages of the 23KA series are the multitude of connecting options and the high flow performance with low pressure drop. The 23KA series can be used for many applications for example mechanical engineering, compressed air tools, automotive, compressed air.

Interchangeability:

INDUSTRIAL INTERCHANGE 1/4, US-MIL-SPEC-C-4109, FORSTER, CEJN, HANSEN 3000, GROMELLE 600, PARKER 30 1/4, RECTUS 24, ISO 6150 B

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:	960 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	14 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 95 g
Vacuum plug:	min. - %	Weight plug:	app. 30 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. - ml
Connecting force:	w/o pressure app. 30 N	at 6 bar inlet pressure	app. 110 N
Disconnecting force:	w/o pressure app. 15 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.:
			Made.	15.12.03	schwab	DB-23KA-SF-engl
			Check	17.12.03	schwab	
			Stand.			