



Data sheet

Quick connect coupling

Series 33

Coupling: 33KA

Plug: 33SF

DN: 8 = 50 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	Steel, nickel plated	
Sleeve	Steel, hardened, nickel plated	
Valve, Inner Sleeve	Brass	
Spring Plate	Brass	
Spring	AISI 301	
Locking Balls	AISI 420	
Seals	Buna N	
Plug	Steel, hardened, nickel plated	

Description:

The 33 series is used as an interchangeable alternative to the standard couplings commonly used in Scandinavia with compressed air tools. Due to the RECTUS ULTRA-FLO valve there is a very high flow performance with low pressure loss. There are many connecting options. The 33KA series can be used for many applications for example compressed air tools, automotive, mechanical engineering, compressors.

Interchangeability:

Atlas Copco QIC 10

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:	1700 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	23 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 100 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. 40 N	at 6 bar inlet pressure	app. 130 N
Disconnecting force:	w/o pressure app. 20 N	at 6 bar inlet pressure	app. 35 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-33KA-SF-engl
			Made.	29.03.04	schwab	
			Check	29.03.04	schwab	
			Stand.			