



## Data sheet

### Quick connect coupling

## Series 1600

Coupling: 1600KA

Plug: 25SF

DN: 7,8 = 48 mm<sup>2</sup>

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:

### Version

	Standard	Version
Back body	Brass, nickel plated	
Valve body	Steel, QPQ plated	
Sleeve	Brass, nickel plated	
Valve	Brass	
Spring	AISI 301	
Locking Balls / Pins	AISI 420	
Seals	Buna N	
Plug	Steel, hardened, zinc plated, colorless chromated	

### Description:

The series 1600KA is robust quick-connect coupling which enable a single-handed operation. The coupling has a low pressure drop due to the optimum ULTRA-FLO valve. The series 1600KA can be used in many applications for example air tools, laboratory installations, chemistry, measuring and control equipment, breathing air, diving equipment, safety engineering, mechanical engineering, construction.

### Interchangeability:

RECTUS 25

### 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: 2020 l/min at 6 bar inlet pressure and 0,5 bar pressure drop  
Flow-rate water: 27 l/min at 0,5 bar pressure drop

Vacuum coupling:	min. 87 %	Weight coupling:	app. 110 g
Vacuum plug:	min. - %	Weight plug:	app. 47 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. 75 N
Disconnecting force:	w/o pressure app. 14 N	at 6 bar inlet pressure	app. 15 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
A	30.03.05	schwab	Made.	15.03.04	schwab
			Check	15.03.04	schwab
			Stand.		

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