



Data sheet

Quick connect coupling

Series 50

Coupling: 50KA

Plug: 50SF

DN: 2,5 = 5 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 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 type="checkbox"/>		<input type="checkbox"/>
Dry Break	<input type="checkbox"/>	Plug anti-splash	<input type="checkbox"/>		<input type="checkbox"/>

Materials:	Version	
	Brass	Brass, nickel plated
Back body	Brass	Brass, nickel plated
Valve body	Brass	Brass, nickel plated
Sleeve	Brass	Brass, nickel plated
Valve	Brass	Brass, nickel plated
Spring	AISI 301	AISI 301
Locking Balls / Pins	AISI 420	AISI 420
Seals	N	N
Plug	Brass	Brass, nickel plated

Description:
 The 50 series is a very small single handed quick connect coupling made of brass. Due to its compact dimensions and interchangeability it can be used for a multitude of applications. The advantages are the small dimensions, single handed operation, multitude of connecting options. The 50 series can be used for many applications for example medical engineering, laboratory installations, learning systems and metering hoppers.

Interchangeability:
 WALTHER LP-002

Versions / special equipment (in part not for all versions, others upon request):
 seal material FKM, FFKM, Ethylen-Propylen;
 surface chrome plated, durnicoat;
 oil and grease free, silicon free;

Test values at 20°C (depending on the version):

Flow-rate air:	120 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	1,9 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 46 g
Vacuum plug:	min. - %	Weight plug:	app. 16 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. - ml
Connecting force:	w/o pressure app. 31 N	at 6 bar inlet pressure	app. 49 N
Disconnecting force:	w/o pressure app. 11 N	at 6 bar inlet pressure	app. 13 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-50KA-SF-engl
			Made.	01.12.03	schwab	
			Check	01.12.03	schwab	
			Stand.			