



## Data sheet

### Quick connect coupling

## Series 57

Coupling: 57KB

Plug: 57SB

DN: 12 = 115 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 type="checkbox"/>	Single hand operation	<input checked="" type="checkbox"/>	ULTRA-FLO-Valve	<input checked="" type="checkbox"/>
Double shut off	<input checked="" 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, hardened, nickel plated	
Sleeve	Steel, hardened, nickel plated	
Valve	Brass, nickel plated	
Spring Plate	Brass, nickel plated	
Spring	AISI 301	
Locking Balls	AISI 420	
Seals	Buna N	
Plug	Steel, hardened, nickel plated	

#### Description:

The 57KB series is a robust one hand operated quick connect coupling which can be connected with straight through plugs as well as double shut-off plugs as well as plugs with return flow reducer. The advantages of the 57KB series are the one hand operation as well as the very high flow. The 57KB series is used for mechanical and plant engineering especially for liquids and gaseous mediums.

#### Interchangeability:

WALTHER LP-012

#### 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:	3650 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	73 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 650 g
Vacuum plug:	min. 87 %	Weight plug:	app. 290 g
Vacuum connected:	min. 87 %	Leakage rate / dead volume:	app. 16 ml
Connecting force:	w/o pressure app. 150 N	at 6 bar inlet pressure	app. 350 N
Disconnecting force:	w/o pressure app. 30 N	at 6 bar inlet pressure	app. 70 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.:  <b>DB-57KB-SB-engl</b>
A	13.05.04	schwab	Made.	23.04.04	schwab	
			Check	23.04.04	schwab	
			Stand.			