



Data sheet

Quick connect coupling

Series 77

Coupling: 77KB

Plug: 77SB

DN: 30 = 707 mm²

Working pressure (static): 0 up to 10 bar (at max. 50°C)

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 type="checkbox"/>	ULTRA-FLO-Valve <input type="checkbox"/>
Double shut off <input checked="" type="checkbox"/>	Two hand operation <input checked="" 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"/>	
Dry Break <input type="checkbox"/>	Plug anti-splash <input checked="" type="checkbox"/>	

Materials:

Version

	Standard	
Valve Body	POM, white	
Sleeve	POM, white	
Valve	AISI 303	
Spring	AISI 301	
Locking Balls	AISI 316	
Seals	Buna N	
Plug	POM, white	

Description:

The 77KB series is a double shut-off hydraulic coupling made of non-rusting materials used for liquid mediums. It is a two hand operated coupling. The sleeve must first be pulled back before it can be connected. The plug profile is manufactured in accordance with ISO-7241-1 series B. The 77KB series can be used for chemistry, mechanical engineering, food sector, ideal for applications with liquids.

Interchangeability:

ISO-7241-1 series B

Versions / special equipment (in part not for all versions, others upon request):

seal material Buna N, Viton, Kalrez, Ethylen-Propylen;
other materials on request
oil and grease free, silicon free;

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

Flow-rate air: - l/min at 6 bar inlet pressure and 0,5 bar pressure drop
Flow-rate water: 265 l/min at 0,5 bar pressure drop

Vacuum coupling: min. - %	Weight coupling: app. 570 g
Vacuum plug: min. - %	Weight plug: app. 360 g
Vacuum connected: min. 87 %	Leakage rate / dead volume: app. 77 ml

Connecting force: w/o pressure app. 90 N	at 6 bar inlet pressure app. - N
Disconnecting force: w/o pressure app. 20 N	at 6 bar inlet pressure app. - N

Safety factor: at least 4-times Burst-pressure: at least 40 bar

Fatigue: 5000 cycles connecting/disconnecting tightness and function O.K.

Revision	Date	Name		Date	Name	Document-no.:
			Made.	21.04.04	schwab	DB-77KB-SB-THERMOPLASTIC
			Check	21.04.04	schwab	
			Stand.			