



Data sheet

Quick connect coupling

Series 48

Coupling: 48KB

Plug: 48SF

DN: 7 = 38 mm²

Working pressure (static): 0 up to 10 bar (POM-version, 20°C); 0 up to 8 bar (PVDF, Metal Spring);
1 up to 8 bar (PEEK Spring)

Working temperature: -20°C up to +80°C (POM-version, depending on the seal material and medium)
-20°C up to +120°C (PVDF-version, 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 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"/>	Pawl Locking System	<input type="checkbox"/>
Dry Break	<input type="checkbox"/>	Plug anti-splash	<input type="checkbox"/>		<input type="checkbox"/>

Materials:	Version		
	RectuPOM Standard	RectuCHEM Standard	RectuCHEM+
Back body	POM, black	PVDF, white	PVDF, white
Valve body	POM, black	PVDF, white	PVDF, white
Sleeve	POM, black	PVDF, white	PVDF, white
Valve	POM, black	PVDF, white	PVDF, white
Spring	AISI 301	AISI 316 L	PEEK 450 G
Pawl Locking System	POM, black	PVDF, white	PEEK 450 G
Seals	Buna N	Viton	Viton
Plug	POM, black	PVDF, white	PVDF, white

Description:
The system of the 48KB series was developed for applications like medical engineering, dental equipment, measuring and control equipment, laboratories and the pharmaceutical industry. The 48KB series can be delivered as a complete thermoplastic version (RectuCHEM+). Here the metal springs are replaced by springs made of PEEK, an extremely resistant synthetic material.

Interchangeability:
-

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:	910 l/min at 6 bar inlet pressure and 0,5 bar pressure drop		
Flow-rate water:	14 l/min at 0,5 bar pressure drop		
Vacuum coupling:	min. 87 %	Weight coupling:	app. 33 g
Vacuum plug:	min. - %	Weight plug:	app. 6 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. 100 N
Disconnecting force:	w/o pressure app. 20 N	at 6 bar inlet pressure	app. 30 N
Safety factor:	at least 4-times	Burst-pressure:	at least 40 bar
Fatigue:	5000 cycles connecting/disconnecting tightness and function O.K.		

uncoupled autoclaved : POM-version 10 times at 121°C and PVDF-version unlimited at 121°C

Revision	Date	Name		Date	Name	Document-no.: DB-48KB-SF-THERMOPLASTIC
			Made.	21.04.04	schwab	
			Check	21.04.04	schwab	
			Stand.			