



## Data sheet

### Quick connect coupling

## Series 74

Coupling: 74KB

Plug: 74SB

DN: 11 = 95 mm<sup>2</sup>

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

Working temperature: -20°C up to +90°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 74KB 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 74KB 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: 2430 l/min at 6 bar inlet pressure and 0,5 bar pressure drop  
Flow-rate water: 33 l/min at 0,5 bar pressure drop

|                             |                                       |
|-----------------------------|---------------------------------------|
| Vacuum coupling: min. 87 %  | Weight coupling: app. 100 g           |
| Vacuum plug: min. 87 %      | Weight plug: app. 30 g                |
| Vacuum connected: min. 87 % | Leakage rate / dead volume: app. 4 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 | <b>DB-74KB-SB-THERMOPLASTIC</b> |
|          |      |      | Check  | 21.04.04 | schwab |                                 |
|          |      |      | Stand. |          |        |                                 |