



Data sheet

Quick connect coupling

Series 25

Coupling: 25KB

Plug: 25SB

DN: 7,4 = 43 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 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 checked="" type="checkbox"/> |
| Self venting | <input type="checkbox"/> | Pin locking system | <input type="checkbox"/> | O-Ring-Seal | <input 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 checked="" type="checkbox"/> | | <input type="checkbox"/> |

| Materials: | Version | | |
|----------------------|----------|----------|-------------|
| | Standard | AISI 303 | AISI 316 L |
| Back body | Brass | AISI 303 | AISI 316 L |
| Valve body | Brass | AISI 303 | AISI 316 L |
| Sleeve | Brass | AISI 303 | AISI 316 L |
| Valve | Brass | AISI 303 | AISI 316 L |
| Spring | AISI 301 | AISI 301 | AISI 316 Ti |
| Locking Balls / Pins | AISI 420 | AISI 420 | AISI 316 |
| Seals | NBR | FKM | FKM |
| Plug | Brass | AISI 303 | AISI 316 L |

Description:

The series 25KB is a double shut off version of our very popular 25KA compressed air model and is most suitable for liquid mediums. The valves in both the coupling and the plug are opened when connected. Both valves close virtually simultaneously when disconnected, ensuring minimum leakage loss. The coupling can be used single handed and a smooth operation is ensured due to the ball-locking system. All individual parts are made out of non-corrosive materials. The coupling can be used in laboratory equipment, air and gas media and air-pressure applications.

Interchangeability:

RECTUS series 26KB

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

seal material NBR, FKM, EPDM, FFKM
 surface nickel plated, chrome plated, durnicoat;
 oil and grease free, silicon free;

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

| | | | |
|----------------------|--|-----------------------------|------------------|
| Flow-rate air: | 716 l/min at 6 bar inlet pressure and 0,5 bar pressure drop | | |
| Flow-rate water: | 7,1 l/min at 0,5 bar pressure drop | | |
| Vacuum coupling: | min. 87 % | Weight coupling: | app. 105 g |
| Vacuum plug: | min. 87 % | Weight plug: | app. 60 g |
| Vacuum connected: | min. - % | Leakage rate / dead volume: | app. 1,5 ml |
| Connecting force: | w/o pressure app. 40 N | at 6 bar inlet pressure | app. 120 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 140 bar |
| Fatigue: | 5000 cycles connecting/disconnecting tightness and function O.K. | | |

| Revision | Date | Name | | Date | Name | Document-no.: DB-25KB-SB-engl |
|----------|----------|--------|--------|----------|------|---|
| A | 13.05.04 | schwab | Made. | 22.11.02 | Zahn | |
| B | 07.07.06 | Zahn | Check | 27.11.02 | Zahn | |
| | | | Stand. | | | |