



Data sheet

Quick connect coupling

Series 1423

Coupling: 1423KA

Plug: 23SF

DN: 5,5 = 25 mm²

Working pressure (static): 0 up to 35 bar

Working temperature: -20°C up to +80°C (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 checked="" 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 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 type="checkbox"/> | |

Materials:

| | Standard | Version |
|----------------------|--------------------------------|---------|
| Back body | Brass, nickel plated | |
| Valve body | Steel, QPQ plated | |
| Sleeve | Thermoplastic | |
| Valve | Brass | |
| Spring | AISI 301 | |
| Locking Balls / Pins | AISI 420 | |
| Seals | Buna N | |
| Plug | Steel, hardened, nickel plated | |

Description:

The 1423KA series is a robust quick connect coupling with one hand operation. The sleeve made of thermoplastic prevents scratches on the working surface. The coupling has a low pressure drop due to the optimum ULTRA-FLO valve. The series 1423KA can be used in many applications for example air tools, laboratory installations, chemistry, measuring and control equipment, breathing air, diving equipment, safety engineering, mechanical engineering, construction.

Interchangeability:

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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: | 950 l/min at 6 bar inlet pressure and 0,5 bar pressure drop | | |
| Flow-rate water: | 13 l/min at 0,5 bar pressure drop | | |
| Vacuum coupling: | min. 87 % | Weight coupling: | app. 94 g |
| Vacuum plug: | min. - % | Weight plug: | app. 25 g |
| Vacuum connected: | min. 87 % | Leakage rate / dead volume: | app. - ml |
| Connecting force: | w/o pressure app. 35 N | at 6 bar inlet pressure | app. 75 N |
| Disconnecting force: | w/o pressure app. 15 N | at 6 bar inlet pressure | app. 17 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.: |
|----------|----------|--------|--------|----------|--------|-------------------|
| A | 18.06.04 | schwab | Made. | 15.03.04 | schwab | DB-1423KA-SF-engl |
| | | | Check | 15.03.04 | schwab | |
| | | | Stand. | | | |