



Data sheet

Quick connect coupling

Series 87

Coupling: 87KB

Plug: 87SB

DN: 9 = 64 mm²

Working pressure (static): 0 up to 15 bar

Working temperature: -15°C up to +200°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 type="checkbox"/> | | <input type="checkbox"/> |
| Dry Break | <input type="checkbox"/> | Plug anti-splash | <input type="checkbox"/> | | <input type="checkbox"/> |

Materials:

Standard

Version

| | | |
|----------------------|----------------------|--|
| Back body | Brass | |
| Valve body | Brass | |
| Sleeve | Brass, nickel plated | |
| Valve | Brass | |
| Spring | AISI 301 | |
| Locking Balls / Pins | AISI 420 | |
| Seals | Viton | |
| Plug | Brass | |

Description:

The 87 RECTUS-Moldtite coupling were developed for connecting coolant lines and injection models. Countersunk plugs can easily be connected and disconnected because of the extended sleeve. The angular connections prevent kinks from forming the hose.

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: - l/min at 6 bar inlet pressure and 0,5 bar pressure drop
Flow-rate water: 14,6 l/min at 0,5 bar pressure drop

| | | | |
|-------------------|----------|-----------------------------|------------|
| Vacuum coupling: | min. - % | Weight coupling: | app. 100 g |
| Vacuum plug: | min. - % | Weight plug: | app. 25 g |
| Vacuum connected: | min. - % | Leakage rate / dead volume: | app. - ml |

| | | | |
|----------------------|------------------------|-------------------------|------------|
| Connecting force: | w/o pressure app. 60 N | at 6 bar inlet pressure | app. 180 N |
| Disconnecting force: | w/o pressure app. 40 N | at 6 bar inlet pressure | app. 80 N |

Safety factor: at least 4-times Burst-pressure: at least 60 bar

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

| Revision | Date | Name | | Date | Name | Document-no.: DB-87KB-SB-engl |
|----------|------|------|--------|----------|--------|---|
| | | | Made. | 26.04.04 | schwab | |
| | | | Check | 26.04.04 | schwab | |
| | | | Stand. | | | |