

Quick Connect Couplings

Installation instructions

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Maintenance instructions

Before installation make sure that the selected quick connect coupling is suitable for the fluid to flow through it and the surrounding atmosphere, with respect to its design (series), materials, seals, working pressure and working temperature.

The installation location

- The installation location of the quick connect coupling or of the plug must be selected in such a way that the operator cannot injure himself through dangerous locations in the direct vicinity, e.g. slipping, jamming, contamination or burning.

Using hoses

- When using hoses, the permissible operating pressure of these hoses at the respective operating temperature must not be exceeded.
- The hoses must be secured against slipping off the fittings with hose clamps which are suitable for the pressure and for the material of the hose.

Threads

1. Low-pressure applications

- Insofar as RectuLoc coating or sealing washers are not fitted as standard, threads for low-pressure applications must be coated with suitable sealing agents such as Teflon tape or fluid sealing agents, and attention must be paid to compatibility with the fluid flowing through

2. Hydraulic applications

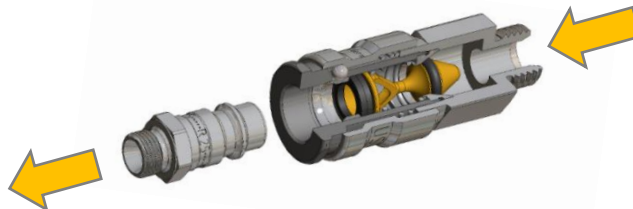
- Threads for hydraulic applications must be connected using screw adapters in accordance with DIN 3852, form A, B or E. The permitted working pressures of the adapters may differ from those of the quick connect couplings or plugs. Pay attention to the compatibility of any seals that may be used with the fluid flowing through

M Vibrating tools

- For vibrating tools, ISO 6150 (Pneumatic fluid power - Cylindrical quick-action couplings), under § 7.1, recommends that a flexible hose with a length of at least 300 mm should be installed between such tools and a quick connect coupling. The oscillating forces are absorbed by the hose piece, thus extending the service life of a quick connect coupling. No guarantee can be accepted for couplings mounted directly on vibrating tools.

Direction of flow

- The recommended direction of flow is from the coupling to the connector, insofar as nothing else is specified in the catalogue description.



Protective caps

- Protective caps and protected plugs are recommended for uncoupled connectors and couplings, in order to prevent contamination or damage.

General

- Quick connect couplings are largely maintenance-free with standard applications and careful treatment, with the correct selection of coupling type and materials.

Basic maintenance

- Depending on the operating conditions, we recommend that a custom-made maintenance procedure, covering at least the following points, should be carried out:

1. Lubrication

- There is no general lubrication rule. Depending of the application circumstances (e.g. degreasing media) the coupling should be regularly lubricated.
- Non-lubricating fluids (e.g. non-oiled, dry compressed air) also require light, regular lubrication of the coupling.
- Used grease or Spray:
 - Silicon grease OKS 1110
 - For silicone free lubrication (only for NBR or FKM seals): Purity FGThe grease has to be chosen according to the sealing material and media.
- General lubrication period should be every 3 month. For degreasing media and frequent coupling the lubrication should be done every week. First sign for a lubrication need is the higher coupling force during disconnection of the plug.

2. Lustration

- In the event of dirt accumulation in the functional area of coupling and plug (compression area, operating elements) this must be cleaned.
- The detergent has to be chosen according to the sealing material and media.

Replacement

- The following properties require replacement of the parts in question: torn, damaged, very dirty or corroded parts, leaks in coupling or plug parts

Replacement Intervals

- Replacement intervals for quick connect couplings, if they exist, must be adapted to state regulations or technical standards. However, historical operating values Coupling Plug resulting from the necessary operating safety and operating conditions, such as downtimes, coupling frequency, pressure and fluid properties, may also be definitive for deciding on replacement intervals.

Extreme conditions

- Under extreme conditions of dirt and cold, it is recommended that the Tema lubrication nipples offered for some series should be used. The element is simply pushed into the coupling. The entire mechanical part of the coupling can then be lubricated by means of the lubrication nipple. This reliably prevents the sleeve from freezing, or dirt from penetrating the system under the sleeve.

Periodic Maintenance prevents function problems, reduces coupling forces, friction and wear of the sealing which leads to higher lifetime.