‘TW’ couplings acc. EN 14420-6 (DIN 28 450) serve for the fast and safe coupling of hoses assemblies. They are suitable for liquid and dry bulk media. TW couplings consist of a male (VK) and female part (MK). - For technical details please refer to the Elaflex catalogue, pages 241-252 and 311-322.

Current laws and regulations for the operational and occupational safety have to be met, e.g. safe electrical grounding, the process sequence of coupling and suitable clothing. This operating manual will not discuss these subjects.

**Coupling Procedure:**

1. Join both coupling parts - recesses of the female coupling into bars of the male coupling.

2. Lead female coupling with its locking lug to the locking cam of the male coupling. Do not use tools, hand force is sufficient.

3. Before starting the transfer of media, close the lever. This puts the coupling lock into function. Further details see overleaf.
**Do not use a hammer or other tools to tighten the coupling.**
TW couplings are self-adapting to wear and tear, so the use of tools should not be necessary.
If a TW coupling leaks, e.g. due to extreme wear or defect seals, old parts should be replaced.

**Do not put the system into operation with an open lever.**
If the lever is not fully closed, the coupling lock may not work.
- Danger of accidental detachment, e.g. due to vibrations.
Therefore - always fully close the lever!

**Threefold Safety for TW couplings:**

- **Lever Arresting.** Helps to keep the lever closed.
- **Coupling Lock.** Prevents decoupling when lever is arrested.
- Optionally "Active Safeguard Lever" (see catalogue page 313).
- Prevents accidental opening of the lever.

**Decoupling in opposite sequence as described overleaf.**
The hose assembly must be empty and pressureless. - Observe valid safety regulations!
To close open ends, use dust caps (MB) and dust plugs (VB).

**Worn coupling seals and thread seals must be replaced.**
Technical details see catalogue pages 387 and 393.

**Example:**
VK 80 x MK 50-45°

**Precondition for the functioning of the coupling lock:**
The lever must be fully closed.
In some operating conditions this is not possible, e.g. narrow installation, or use of large adapter counterparts.
For these occasions, choose female couplers with bent lever.
Further details upon request - see also Information 7.06 and catalogue page 321.

When using adapter parts (catalogue pages 319-326), always secure a tight and safe connection.

**Optionally "Active Safeguard Lever"**
Always secure a tight and safe connection.

**bent lever**

**Dust Cap (MB)**

**Dust Plug (VB)**

**Coupling Seal TWD**
(for pressure and suction operation)

**Coupling Seal GSD**
(for pressure and high suction operation)

**Thread Seal GD**