

# The better coupling

**"TW"-COUPLINGS** : Road Tankers for Petroleum Based Products, Chemicals and Bulk Good in Germany and many other countries are equipped with this Quick Coupling System.



'TW' Road Tanker couplings according toh EN 14420-6 (previously: DIN 28450) exist for more than 50 years.

Even with well-proven design there is always room for some detail improvements.

Decades ago, the TW system with its safe and automatically 're-tightening' system replaced a number of special couplings - a useful standardization, which increasingly is not only used in Germany but in many other countries.

Some examples of the TW coupling manufacturer ELAFLEX.

### VB 80 ADR SS :

A "VB 80" dust plug of stainless steel, used as third blocking device with pressure relief valve. Since 2007 the ADR regulations provide that the dust plug of the outlet coupler may only be removed after an eventually remaining pressure in the conduct has been safely released. To disconnect the 'VB 80 ADR SS' dust plug, the operator has to manually open the mechanical blocking system of the plug. The pressure relief valve opens, existing pressure between the second valve and the plug is released to the atmosphere. Then, the plug can be safely removed.



VB 80 ADR SS

### Bent Levers :

Precondition for a proper function of TW couplings is the so-called coupling lock, preventing decoupling when the lever is arrested. For this, the lever must be fully closed - in some operating conditions e.g. narrow installation or use of large adapter counterparts, this is not possible. Bent levers are the solutions for this problem - available in brass or stainless steel.



Bent Levers

### Active Safeguard Lever :

This is a further safety step. The "MK-A" stainless steel female coupler with Active Safeguard Lever is known since 2006. It prevents accidental opening of the lever. After closure of the lever, it is automatically arrested. Only when a mechanism is actively shifted, the coupling can be opened. Available in 3" and 4".



Active Safeguard Lever

### MK 100 Brass :

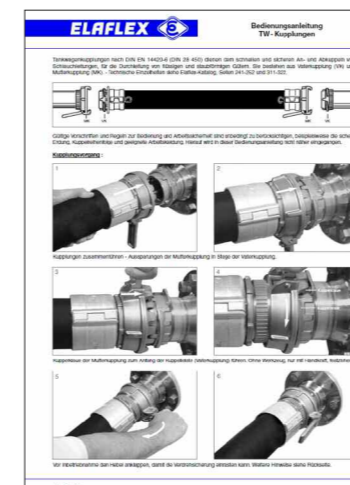
The 4inch brass female coupler now is available in a new, improved construction. The previous internal toothed ring (holding together crown piece and coupling nut now is completely integrated. Due to the absence of separate inner partes now there is no inner groove where dirt can enter or corrosion may build up, improving expected lifetime. Three hexagon screws now serve for fixing the thread connection to the pipe or hose, at the same time they secure the coupling nut from falling back.



MK 100 Messing 'new'

### Special Seal of Viton® Extreme :

The new GSD 80 ETP elastic coupling seal of Viton Extreme shows a large application range, especially for fluids where standard FKM seals are not chemically resistant.



### Operating Manual :

A new manual for road tanker operators informs about coupling, do's and don'ts with TW couplings.

There is an information package about the mentioned novelties, which can be requested from Elaflex.

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