

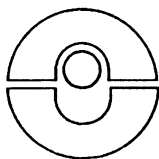
UIC Code

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1st Edition, 01.07.88

**Selective list
of couplings for steel tubes
(screw couplings
for pipes without screw-thread ends)**



International Union of Railways



Documents

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Leaflet to be classified in Volumes :

- V - Transport stock
- VI - Traction
- VII - Way and Works
- VIII - Technical specifications

Amendments

1	01-07-89		

This leaflet is :

- *obligatory* for new and rebuilt stock (powered or trailing),
- *recommendatory* for existing stock (powered or trailing).

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Note

This leaflet is part of a set which also includes :

Leaflet 803-34 : Selective list of rigid couplings for copper tubes.

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0 - General

This leaflet contains selective lists for light-duty screw couplings for steel pipes made up of tubes without screw-thread ends :

- to connect smooth-end steel pipes,
- and to connect such pipes to components with screw-thread ends.

Two connection systems are available, but they are not interchangeable with one another.

The connections can be dismantled repeatedly without remachining the connecting ends.

The pipe screw couplings guarantee a connection catering for the requirements imposed on pipelines in railway vehicle construction as regards tightness and tear strength.

1 - Reference documents

ISO 4200 - Steel pipes with smooth ends, welded and seamless
UIC 803-10 - Selective list of steel tubes
UIC 803-13 - Selective list of stainless steel tubes.

2 - Manufacture

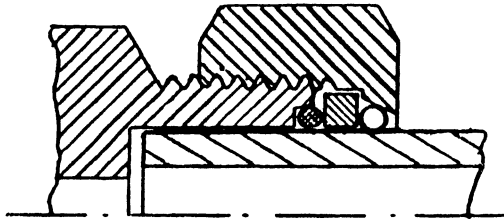
2.1 - Couplings

The pipe screw couplings provide the two essential functions of tightness and anchoring strength at the connecting points in different ways :

OR

System A (shown in Fig. 1) ensures tightness by means of an elastomer seal and anchoring by means of a split ring with a circular or convex cross-section which is bedded down during tightening. This bedding down occurs without permanent deformation to the tube-end.

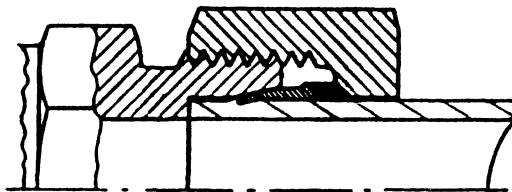
The seal material is chosen in relation to the nature of fluid running in the circuit.



Coupling not tightened

Figure 1 : System A

System B (shown in Fig. 2) provides clamping and sealing by means of a ring that becomes embedded in the tube and causes its permanent deformation. With expert installation of this ring during first assembly it will remain seated even after dismantling and can be used repeatedly.



Tightened coupling

Figure 2 : System B