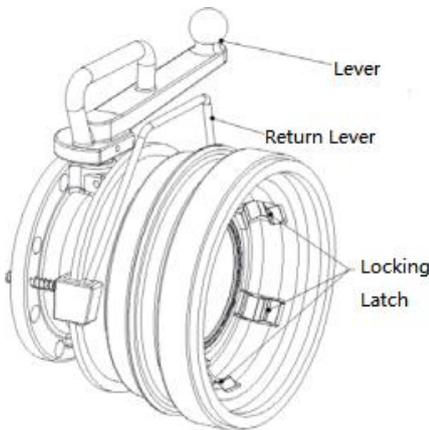


Add:Bali Village Qiaoxia Town, Yongjia County, Wenzhou City, Zhejiang Province, China.

## High-Performance Aluminum API Dry Coupler for Tanker Truck Bottom Loading)



HB-API-001 API Dry Coupler (also known as dry disconnect valve, dry disconnect separator valve, bottom loading coupling) is mainly used for fast connection and disconnection between the crane pipe and the tank truck, facilitating the loading and unloading of liquid medium from the bottom of the tank truck, with no residual liquid when disconnected. It adopts international advanced technology, complying with the American Petroleum Institute API RP1004 standard, European EN13083 standard, and relevant national standards. Widely used in industries such as crude oil, light oil, aviation kerosene, and chemicals.



### Technical Specifications:

Material: Aluminum Alloy  
Sealing: Viton  
Connection: TTMA Flange  
Working Pressure: 10Bar  
Test Pressure: 15Bar  
Weight: 9.8Kg  
Standard: API RP1004, EN13083

### Advantages:

- Convenient and fast connection
- No residual liquid when disconnected.
- Easy and flexible operation
- Long service life

### Instructions for Use:

From closed to open state: Move the API Dry Coupler (female coupling) at the end of the crane pipe to dock with the tank truck part (bottom unloading adaptor), push the shell to tightly lock the male coupling with the claws, then pull the lever in the direction indicated by the arrow on the handle to open, rotate the spindle 180 degrees, and drive the opening and closing plug through the cam and connecting rod mechanism, simultaneously driving the sealing plug on the male coupling (bottom unloading valve), so that both male and female couplings are opened simultaneously. At this point, the API Dry Coupler is in a fully open working state, realizing the bottom loading and unloading of liquid medium.

From open to closed state: When the loading and unloading operation is completed, pull the handle in the direction indicated by the arrow on the lever to close, rotate the spindle 180 degrees, pull the opening and closing plug through the cam and connecting rod mechanism, and simultaneously, the sealing plug on the male coupling (bottom unloading adaptor) moves synchronously with the opening and closing plug under the action of spring force, so that both male and female couplings are closed simultaneously. Then pull the shell return lever, the API Dry Coupler will automatically return to its original position, and the male and female couplings are completely disconnected. At this point, the API Dry Coupler is in a fully closed non-working state.

Maintenance: During use, periodically inspect and clean the sealing surface, springs, and other components to maintain good working condition.