Product Description of Bottom valve

The stainless steel bottom valve under DESEINOR products is a core safety component installed at the bottom of chemical tank trucks, tank containers and oil tankers, which ensures safe and efficient discharge of media.This emergency shut-off valve is specially designed for chemical corrosive liquid applications, featuring excellent flow capacity and fast response performance in emergency scenarios.

This series of high-performance stainless steel bottom valves supports two actuation modes: external exhaust control and manual cable release, enabling flexible adaptation to various on-site operation requirements. The product is compatible with a wide range of media including corrosive liquids, low-temperature gases, biodiesel, gasoline, ethanol and methanol.Equipped with chemical-resistant seals, it effectively enhances the product's media compatibility and durability.

Safety and Compliance

This bottom valve is built-in with a shear groove structure, whose design and testing fully comply with the standards of U.S. Federal Regulation 49CFR178.345-8 and the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).In the event of a vehicle collision, the valve body will separate along the shear groove while maintaining a tight seal with the tank flange, preventing medium leakage and protecting the integrity of the valve mechanism inside the tank.

Core Functions：

1. Operating Pressure

- For crude oil applications, the valve opens at a minimum line pressure of 70 psi (4.83 bar) to counteract a tank pressure of 35 psi (2.41 bar).

- For refined petroleum applications, the valve requires a minimum line pressure of 30 psi (2.06 bar).

2. Safety and Compliance

-This bottom valve is built-in with a shear groove structure, whose design and testing fully comply with the standards of U.S. Federal Regulation 49CFR178.345-8 and the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

-This stainless steel bottom valve also complies with the requirements of API 1004 (American Petroleum Institute Standard) and EN 13083 (European Standard).

Nominal Diameter	DN80
Material	stainless steel
Sealing Material	PTFE
Nominal pressure	1.6MPa
Maximum Flow	6000m³/h
Operating Temperature	-40℃~+200℃
Weight	6.9kg

Tanker parts: Bottom valve DSSY-C80S

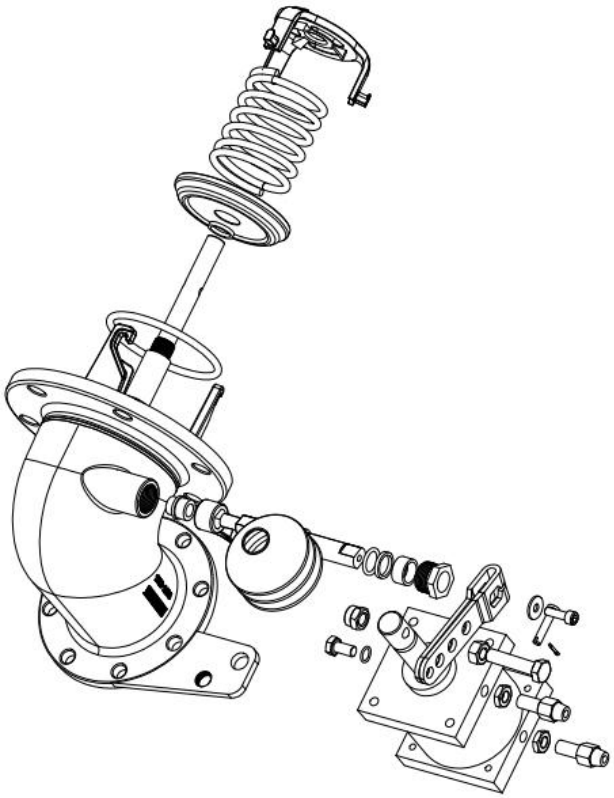


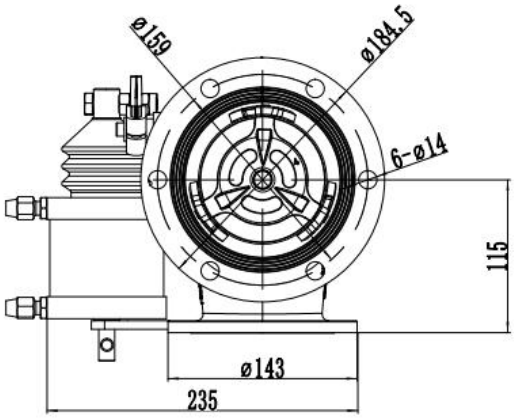
Functional Characteristics

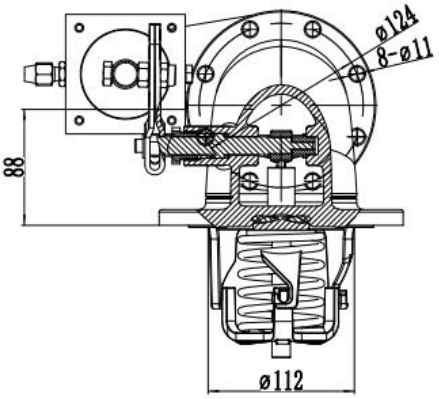
1. manufactured using stainless steel casting technology with surface passivation treatment .
2. The built-in PTFE gasket ensures superior leak-proof sealing performance..
3. The bottom valve features an integrated shear groove design; its design and testing fully comply with standard requirements, ensuring superior safety performance.








ø159
ø184.5
6-ø14
115
ø143
235


ø124
8-ø11
88
ø112


Tube Doors
Safety Vapor Vents
Tank Vapor Vent
Dust Caps & Plugs with Needles for Hose Tubes
FloTech Overfill Detection
Ladder Stop
All Nickelcote
Safety Vapor Vents
Swivelling Stud
API Valve Caps
FUEL
Tube Doors
Tube Doors
API Rivet
VAPOR FLOW
Single Point Vapor Recovery Foot Drop Co-Axial Elbow
Tubes Doors
Tube Doors
Vapor Adapter
Hose Nose Couplers
Ladder Fill Cap
Twin Doors
Drop Hose Pipings
Two Swl Mushms
Road Cap
VAPOR
FUEL