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 product series features an internally fully-coated structure made of PTFE material, making it compatible with a wide range of media—including corrosive liquids, low-temperature gases, biodiesel, gasoline, ethanol, and methanol. Equipped with chemical-resistant seals, it significantly enhances media compatibility and durability.

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. The valve body housing is fabricated from 304 stainless steel, making it resistant to corrosion in outdoor environments, as well as in salt spray or rainwater exposure conditions typical of chemical industrial parks.
2. Integrated built-in cylinder spring reset mechanism with automatic valve closure upon air release – enhances safety during use.
3. Both the valve disc and valve seat are made of PTFE material to isolate the metal from corrosive media; the soft-seal design provides excellent leak-proof performance.

Nominal Diameter	DN100
Material	stainless steel
Sealing Material	PTFE
Nominal pressure	1. 6MPa
Drive method	Built-in cylinder
Operating Temperature	-40℃~+200℃
Weight	18. 5kg

Tanker parts: Bottom valve DSSY-H100P

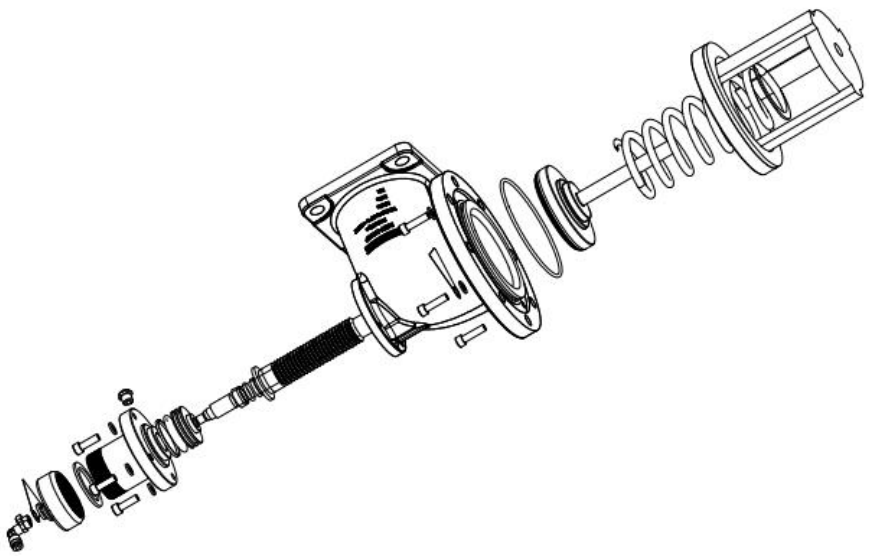


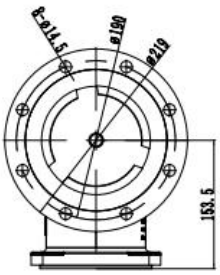
Functional Characteristics

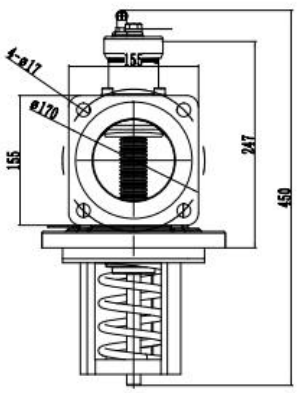
1. Manufactured using stainless steel casting process; surface subjected to passivation treatment.
2. Both the valve disc and valve seat are made of PTFE material to isolate the metal from corrosive media; the soft-seal design provides excellent leak-proof performance.
3. The bottom valve features an integrated shear groove design; its design and testing fully comply with standard requirements, ensuring superior safety performance.








ø214.5
ø190
ø210
153.5


4-ø17
ø170
155
247
450


Tube Doors
Safety Vapor Vents
Tank Vapor Vent
Dust Caps & Plugs with Needles for Hose Tubes
FloTech Overfill Detection
Ladder Stop
All Nickelate
Snorkelling Stand
Safety Vapor Vents
API Valve Caps
FUEL
Tube Doors
Tube Doors
API Rivet
Single Point Vapor Recovery Fast Drop Co-Axial Elbow
Tube Doors
Tube Doors
Vapor Adapter
Vapor Hose Couplers
VAPOR
Ladder Fill Cap
Tee Set Mealms
Twist Doors
Drop Hose Points
FUEL