



## Crude Oil Railcar Products



**FLUID TRANSFER RAIL TANK CAR EXPERTS**

# Midland Railcar Components Make Crude-By-Rail Operations Safe and Efficient

Midland's combination of current products and new designs will help our customers meet these challenging industry requirements, along with meeting and exceeding the regulations that affect the entire rail tank car fleet.

- Midland offers the most comprehensive valve package for crude-by-rail applications, including Pressure Relief Valves, Vacuum Relief Valves and Ball Valves
- Midland Gauging Devices deliver accurate level monitoring that ensures complete commodity loading every time while reducing the chance for overloading of the tank car
- Fellow OPW Fluid Transfer Solutions member OPW Engineered Systems provides Kamvalok® and Drylok™ valves and adaptors for use at liquid-transfer points
- All Midland railcar products have been designed to meet or exceed Association of American Railroads (AAR) regulations

## A-19075 Smart-Flow Pressure Relief Valve

Flow Rating: 10,730 scfm-air

- Performs equally to a higher flow valve for survival in a 100-minute pool fire
- Minimizes the amount of product released that could feed a fire and potentially mitigates environmental impacts



FEATURE	BENEFIT
75 psig Repeatability Set-to-Discharge	Fast response to tank pressure
Less than 9" Above Pressure Plate	Low profile, reduced chance of shear-off
External Stainless Steel Construction	Resists corrosion and ensures reliable performance and long valve life
6-1/2" x 10-1/4" Bolt Circle	Easy retrofit
Tongue-and-Groove and Flat-Face Versions Available	Industry-standard mount

## B-612 Gauging Device

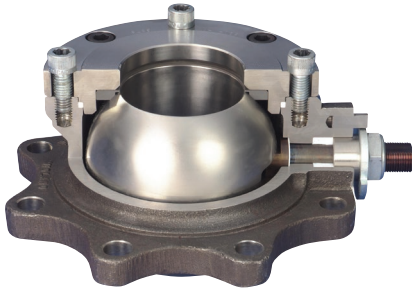
- Multiple specific gravity gauge rods available to accommodate changing commodities
  - Additional adjustment nut available for a wider range of specific gravities, allowing the use of the same gauge rod
- Serial number is applied in three locations for easy identification

FEATURE	BENEFIT
3-1/4" Bolt Circle	Reduces space requirements on pressure plate
Stainless Steel Construction	Increased corrosion resistance
Lightweight Float and Gauge Rod	Improved durability and superior performance with a wide range of applications
Multiple Specific Gravity Gauge Rods Available	Accommodate changing commodities without hassle of multiple gauge rods



## A-522 Ball Valve

- Standard, steam-jacketed, carbon-steel and stainless-steel models available
- Live loaded and adjustable packing through the stem to reduce leaking potential
- PTFE and DuraSteel seat material to cover a complete range of commodities
- DuraSteel benefits are:
  - Lower seat expansion
  - Higher dimensional stability to provide better sealing in low- and high-heat applications
  - Compatible with a broad range of commodities
  - Increased abrasion-resistance



FEATURE	BENEFIT
Main Shaft Wiper Seal	Prevents contaminants from entering seal area
Compact Design	Fits all current API adaptors and vapor fittings
Universal and Rigid Mounting	Fits all current API adaptors and vapor fittings and extends valve life
Accessible Operation	Only requires quarter turn to fully open and close valve
Unrestricted Full Port Opening	Allows high-flow rates for faster unloading

## A-210/A-212 Vacuum Relief Valves

- Unique seal design eliminates the possibility of using incorrect materials or performing improper installation
- Tamper-evident seal wire on top screws
- Pressure settings up to 5 psi and higher
- The stem is guided in two places
  - This reduces accidental cycling or “burping” of the valve due to car impact or vibration
  - Gives the valve a more consistent seal and decreases the chances of pressure leaks

FEATURE	BENEFIT
Mesh Screen Filter	Inlet filter prevents debris from entering the seating area
Valve Poppet Reversed	Keeps sealing surface away from lading
No-Step Design	Eliminates improper cycling of the valve
Stainless-Steel Baffle Available	Keeps the lading from sealing surface during commodity surges



## Kamvalok, Drylok Valves and Adaptors

FEATURE	BENEFIT
Super-Pak Adjustable Packing with V-Type Material	Provides continuous compression and emission-free seal on handle shaft
Cam-and-Groove Design	For ease of operation
360° Orientation	Coupler can be connected in any

IMPORTANT: OPW products should be used in compliance with applicable federal, state, provincial, and local laws and regulations. Product selection should be based on physical specifications and limitations and compatibility with the environment and materials to be handled. OPW MAKES NO WARRANTY OF FITNESS FOR A PARTICULAR USE. All illustrations and specifications in this literature are based on the latest product information available at the time of publication. OPW reserves the right to make changes at any time in prices, materials, specifications and models and to discontinue models without notice or obligation.

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