



AMERICAN RAILCAR INDUSTRIES, INC.

ARI Pressureaide® COVERED HOPPER CAR



AGILE ♦ RESPONSIVE ♦ INNOVATIVE

ARI Pressureaide® covered hopper cars are engineered to transport a wide variety of fluidizable dry bulk products. Our pressure differential cars are designed and built to accept interior coatings compatible with the intended product service. Each car comes equipped with ARI's proprietary pressure differential pneumatic unloading system, which consists of all piping and fittings required to connect at the unloading facility, including air flow and product discharge valves, pressure gauges and pressure relief devices. The Pressureaide® car operates with internal air pressures up to 14.5 psig allowing for safe, efficient product transfer.

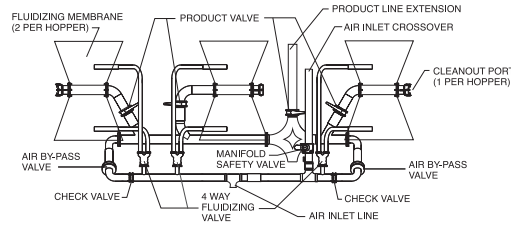
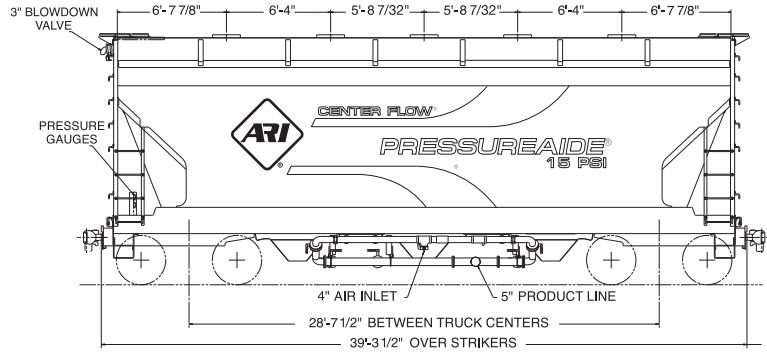
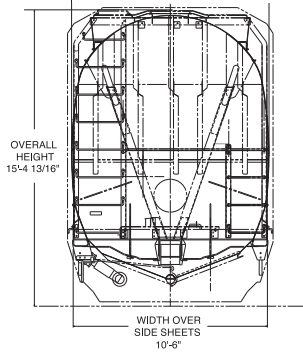
Available in five models, Pressureaide® covered hopper cars are designed to ship a range of product densities to achieve optimal weight on rail. With the exception of the PD5650N, Pressureaide® cars are built with multiple compartments, each separated by a steel bulkhead. The PD5650N is a single compartment design with five hoppers.

BASIC SPECIFICATIONS	3300	5001	5300	5750	5650N
Length Over Pulling Face	41' 11"	59' 6-1/2"	65' 3/4"	65' 3/4"	64' 3-1/2"
Truck Centers	28' 7-1/2"	46' 3"	51' 9-1/4"	51' 9-1/4"	51'
Overall Height	15' 4-13/16"	15' 4-13/16"	15' 5-9/16"	15' 5-9/16"	15' 5-13/16"
Width Over Side Sheets	10' 6"	10' 6"	10' 3"	10' 3"	10' 4"
Height Rail to Bottom of Discharge Outlets	12-1/2"	12-1/2"	12-1/2"	9-7/8"	9-1/8"
Number of Compartments	3	4	4	4	1 with 5 hoppers
Number of Outlets Per Hopper	1	1	1	1	1
Size of Roof Hatches	20" DIA.	20" DIA.	20" DIA.	20" DIA.	20" DIA.
Slope End Floor Sheet	50° & 43°	50° & 43°	50° & 43°	43° & 45°	45° & 43°
Slope Interior Floor Sheet	50°	50° & 45°	50° & 45°	43° & 45°	45°
Slope Side Slope Sheet	45°	45°	45°	51°	43°
Cubic Capacity	3300 cu. ft.	5000 cu. ft.	5300 cu. ft.	5750 cu. ft.	5650 cu. ft.
Estimated Nominal Lightweight	56,600 lbs.	66,900 lbs.	70,100 lbs.	70,100 lbs.	68,200 lbs.
Horizontal Curve Negotiability - Uncoupled	150 ft.	150 ft.	180 ft.	180 ft.	180 ft.
Typical Products	Cement/ Fly Ash/Mortar	Flour/Starch/ Clay/Talc	Flour/Starch/ Clay/Talc	Flour/Starch/ Clay/Talc	Flour/ Clay/Talc

NOTE: All ARI Pressureaide® covered hopper cars are built to 286,000 lb. GRL specifications. All dimensions are for nominal light car.



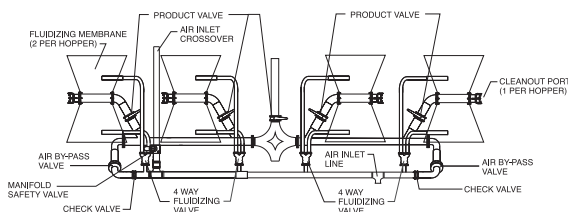
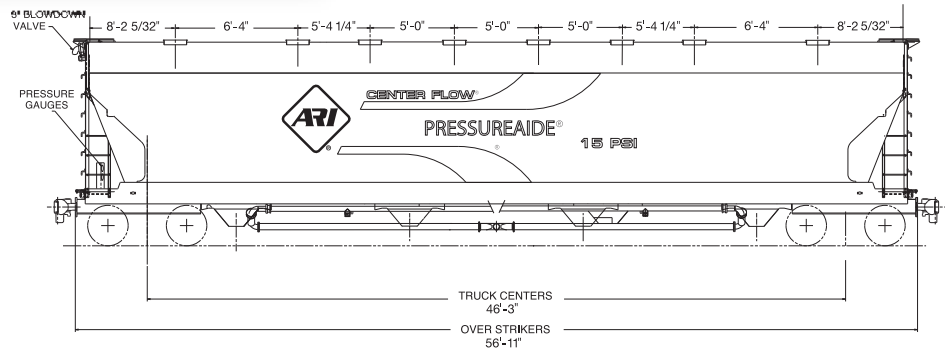
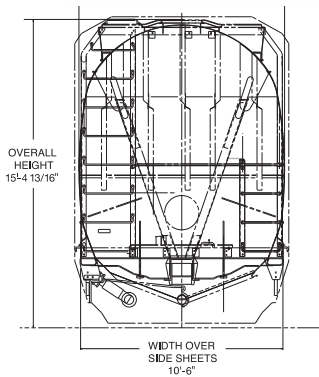
PRESSUREAIDE® PD3300



PD3300 Manifold Arrangement

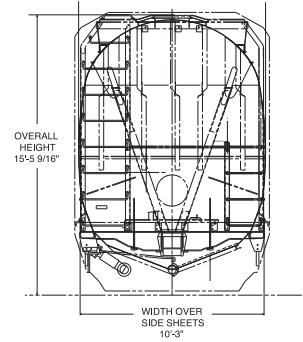
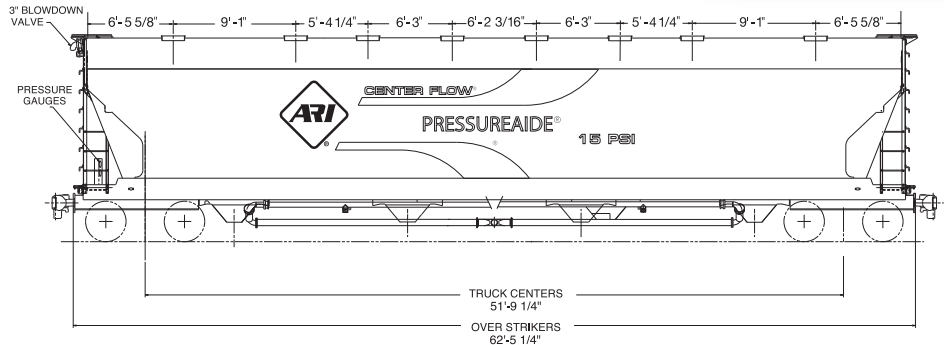


PRESSUREAIDE® PD5001

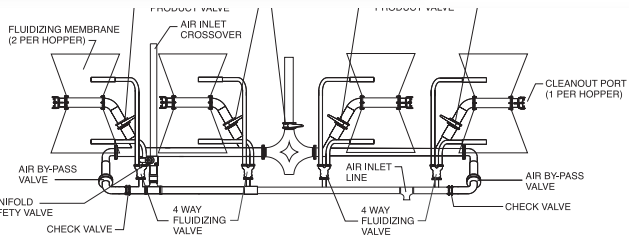


PD5001 Manifold Arrangement

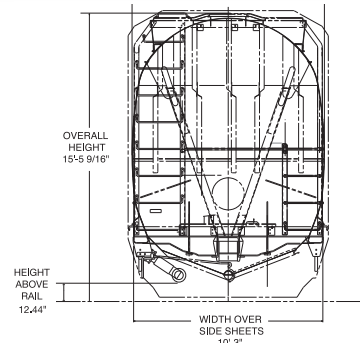
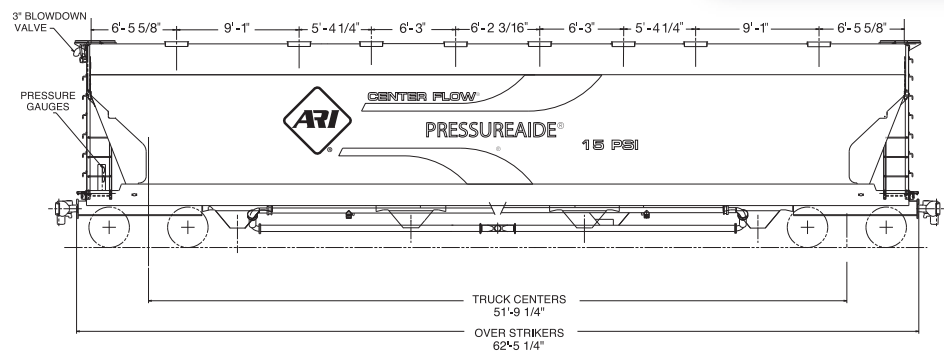
PRESSUREAIDE® PD5300



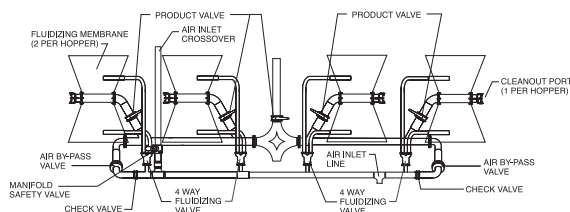
PD5300 Manifold Arrangement



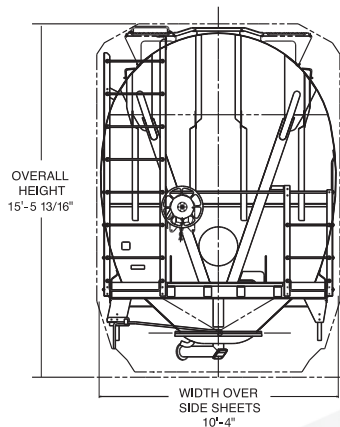
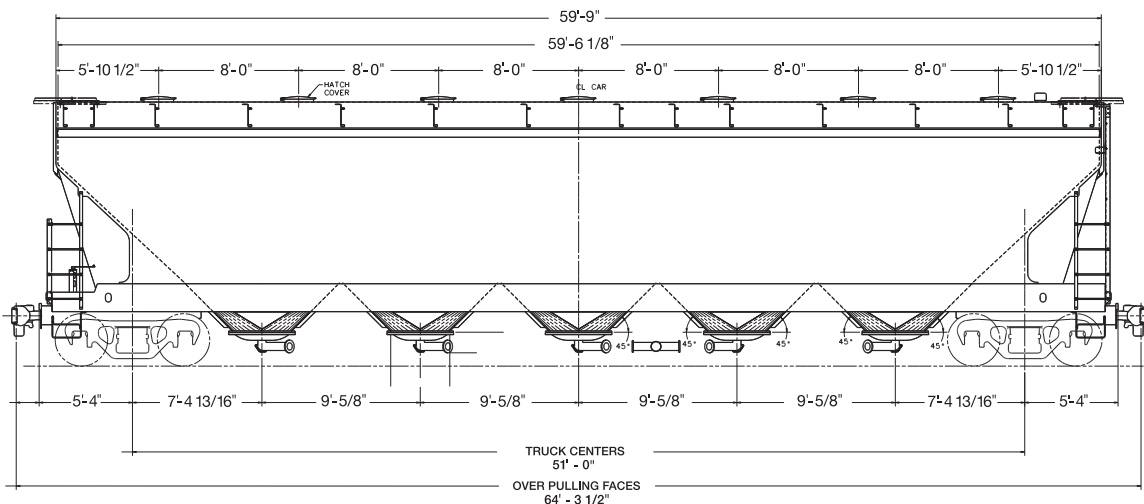
PRESSUREAIDE® PD5750



PD5750 Manifold Arrangement



PRESSUREAIDE® PD5650N



The PD5650N Pressureaide® Covered Hopper Car is specifically designed and engineered to handle a wide variety of dry bulk fluidized products, like flour, in a safe and efficient manner. Its clean bore design has no interior bulkheads and is well suited for flood load and pressure loading systems.

ARI-Special Products Group supports the Pressureaide® family of covered hopper cars with a full line of repair and replacement parts. For information, please contact us at 636-940-6151, or visit us at www.americanrailcar.com.

FEATURES & BENEFITS OF ARI PRESSUREAIDE® COVERED HOPPER CARS

American Railcar Industries, Inc. pioneered the design and manufacture of the modern day pressure differential covered hopper car. The Pressureaide® hopper car evolved from the original Centerflow® covered hopper car concept of having no center sill to obstruct product flow, providing the cleanest unloading of any covered hopper car in the industry.

Our industry preferred air inlet and product discharge manifold system ensures complete clean out with every load. The piping connections extend to the side sills on both sides of the car and terminate with male quick-connect fittings, eliminating the need to spot the car in a particular direction.

Each compartment is equipped with a 5" butterfly valve to regulate product flow through the 5" aluminum* discharge manifold. Our proprietary Product Valve Handle Extension, allowing operation from the side of the car, is offered as an option. Our unique product cross has no moving parts to fail or leak in service. The far side of each compartment is closed with a 5" male quick-connect fitting for sampling or easy clean out.

The ARI Pressureaide® covered hopper car uses 4" aluminum piping for the air inlet manifold system.

We provide, as standard equipment, an in-line safety relief valve to protect the unloading blower and the air manifold. A bypass air control valve with an in-line 4" check valve is provided at each end of the manifold system to regulate product flow through the discharge piping.

Connecting into the 4" air inlet manifold is the 2" piping that supplies fluidizing air to the permeable membranes through our unique 4-way valve.** The 4-way valve allows the operator to direct air flow to either of the two permeable membranes separately, or to both sides simultaneously. The fourth position shuts-off all air flow into the compartment. An internal check valve prevents the back flow of air and product into the manifold system.

Liquid filled pressure gauges are supplied to monitor manifold and car body pressure. The gauges are cradled in foam and mounted inside a sealable steel enclosure to protect against vibration and vandalism.

The hatch assemblies are sealed with our patented ARI 20" aluminum pressure hatch. The ergonomic handles incorporate an integral wrench, allowing for infinite adjustments while eliminating the need to bring additional tools on top of the car.

* For abrasive products, we supply the product discharge piping in carbon steel.

** Not applicable to the 5650N model car.



MANUFACTURING
AMERICAN RAILCAR INDUSTRIES

100 Clark Street, St. Charles, Missouri 63301

(636) 940-6020 • (636) 940-6100 FAX

e-mail: sales@americanrailcar.com / website: www.americanrailcar.com

WE BUILD AND SERVICE THE WHOLE CAR