



ADMINISTRATIVE RULES OF MONTANA

4.12.720 SYSTEMS MOUNTED ON FARM WAGONS (IMPLEMENTS OF HUSBANDRY) FOR THE TRANSPORTATION OF ANHYDROUS AMMONIA

- (1) This section applied to containers of 2000 gallons capacity or less and pertinent equipment mounted on farm wagons (implements of husbandry) and used for the transportation of anhydrous ammonia. ARM 4.12.704 to ARM 4.12.718 apply to this section unless otherwise noted.
- (2) Design, working pressure and classification of containers:
 - (a) containers shall be constructed in accordance with ARM 4.12.704 with a minimum design pressure of 250 psig;
 - (b) the shell or head thickness of any container shall not be less than 3/16 of an inch;
 - (c) all containers over 500 gallons capacity should be equipped with semirigid baffle plates.
- (3) Mounting container:
 - (a) Stop or stops shall be mounted on the truck, semi-trailer, or trailer or on the container in such a way that the container shall not be dislodged from its mounting due to the vehicle coming to a sudden stop. Back slippage shall also be prevented.
 - (b) A hold-down device shall be provided which will anchor the container to the vehicle at one or more places on each side of the container.
 - (c) When containers are mounted on four-wheel trailers, care shall be taken to insure that the weight is distributed evenly over both axles.
 - (d) When the cradle and the tank are not welded together, material shall be used between the two to eliminate metal-to-metal friction.
- (4) Container valves and accessories:
 - (a) All containers shall be equipped with a fixed liquid level gauge.
 - (b) All containers with a capacity of 250 gallons or more shall be equipped with a pressure indication gauge having a dial graduated from 0-400 psig.
 - (c) The filling connection shall be fitted with a positive shutoff valve in conjunction with either an internal back-pressure check valve or an internal excess-flow valve.
 - (d) All containers with a capacity exceeding 250 gallons shall be equipped for spray loading or with a vapor return valve.

- (e) All vapor liquid connections, except safety relief valves and those specifically exempt in ARM 4.12.707 shall be equipped with excess-flow valves or quick-closing internal valves which shall remain closed except during operating periods.
- (f) Fittings shall be adequately protected from physical damage by:
 - (i) a metal box or cylinder with an open top securely fastened to the container;
 - (ii) rigid guards, well braced, welded to the container on both sides of the fittings; or
 - (iii) a metal dome. If a metal dome is used, the relief valve shall be properly vented through the dome.
- (g) If a liquid withdrawal line is installed in the bottom of the container, the connections thereto, including hose, shall not be lower than the lowest horizontal edge of the vehicle axle.
- (h) Both ends of the hose shall be made secure while in transit.
- (5) Marking of container:
 - (a) Four (4) diamond type, non-flammable, department of transportation gas placards shall be displayed (one on each side and one on each end) .
 - (b) The words "Anhydrous Ammonia" shall appear on each side and each end in letters no less than two (2) inches high.
 - (c) The words "Liquid" or "Vapor" shall be placed on or within 12 inches of the appropriate valve by means of stencil, tag, decal, or color coding with a legible legend ORANGE LIQUID and YELLOW VAPOR on the tank.
- (6) Farm wagons (implements of husbandry) :
 - (a) Farm wagons (implements of husbandry) are as defined in the Montana Motor Vehicle Code.
 - (b) All farm wagons shall be securely attached to the vehicle drawing them by means of drawbars supplemented by safety chains of sufficient size and strength to prevent the towed vehicle parting from the drawing vehicle in case the drawbar should break or become disengaged.
 - (c) A farm wagon shall be constructed so that it will follow substantially in the path of the towing vehicle and will prevent the towed farm wagon from dangerously whipping or swerving from side to side.
 - (d) All farm wagons shall have at least five (5) gallons of readily available clean water.
- (7) Nurse tanks containing anhydrous ammonia shall be stored no less than 50 feet from the edge of the adjacent road, 150 feet from place of private or public assembly, and 750 feet from place of institutional occupancy.

Authorizing statute(s): Sec. 80-10-503, MCA

Implementing statute(s): Sec. 80-10-503, MCA, 1986 MAR p. 1820, Eff. 10/31/86.



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History: