

WAC 296-826-60020 General specifications.

You must meet the requirements ...	in this section:
General specifications	WAC 296-826-60020
Additional requirements for systems mounted on trucks, semi-trailers, and trailers for transporting ammonia	WAC 296-826-60025

- (1) You must get owner authorization to use transfer containers.
- (2) You must make sure transfer containers are gauged and filled in either:
 - (a) Open atmospheres; or
 - (b) Buildings approved for that purpose.
- (3) You must make sure pumps used to transfer ammonia meet all of the following:
 - (a) Have a manufacturer's label for ammonia service.
 - (b) Are designed for at least 250 psig working pressure.
 - (c) Have a constant differential relief valve discharging into the suction port that:
 - (i) Is installed on positive displacement pumps; and
 - (ii) Meets the pump manufacturer's recommendation for the settings and installation.
 - (d) Have a pressure gauge graduated zero to 400 psig installed on the discharge side before the relief valve line.
- (4) You must make sure plant pipes with shut off valves are located as close as possible to the pump connections.
- (5) You must make sure meters used for measuring liquid anhydrous ammonia:
 - (a) Are recommended and labeled for ammonia service by the manufacturer.
 - (b) Are designed for a minimum working pressure of 250 psig.
 - (c) Incorporate devices that prevent unintended measurement of vapor.
- (6) You must do the following when transferring ammonia:
 - (a) Maintain ammonia at a temperature suitable for the receiving container.
 - (b) Have at least one attendant supervise the transfer from the time connections are made to when disconnection occurs.
 - (c) Do NOT use flammable gases or gases that will react with ammonia, such as air to unload tank cars or transport trucks.
- (7) You must make sure compressors used for transferring ammonia meet all of the following:
 - (a) Have a working pressure of at least 250 psig when transferring ammonia.

If crank cases of compressors are not designed to withstand system pressure, then provide protection with a suitable safety relief valve.
 - (b) Are connected to plant piping with shut off valves located as close as practical to compressor connections.
 - (c) Have a safety relief valve that is both:
 - (i) Large enough to discharge the full capacity of the compressor; and
 - (ii) Connected to the discharge before any shut off valve.
 - (d) Have an oil separator on the discharge side, where necessary to prevent contamination.

(e) Have a drainable liquid trap or other adequate method on the compressor suction to minimize the entry of liquids into the compressor.

(f) Pressure gauges on the suction and discharge ends graduated to at least one and one-half times the maximum pressure that can develop.

(8) You must protect loading and unloading systems in the event of hose severance by suitable devices where necessary, such as:

(a) Backflow check valves; or

(b) Properly sized excess flow valves.

Note: If such valves are not practical, remotely operated shut off valves may be installed.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050. WSR 15-23-086, § 296-826-60020, filed 11/17/15, effective 12/18/15. Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, 49.17.060. WSR 06-10-067, § 296-826-60020, filed 5/2/06, effective 9/1/06.]