

Cargill Asphalt Solutions

Pump Setup and Plumbing Recommendations

The following recommendations are general best practices for efficient pumping of additives for use in asphalt plants. However, each plant is different and thus may require a different approach and schematics based on the plant size, pump skid placement, and type of tank and suction line.

Cargill provides the following items only as a recommendation. The best practice for different plants or setup may vary. All pump skids, setup location, and plumbing should be designed in coordination with the pump manufacturer prior to install.

- **Pump type and size is to be determined by plant layout and capacity.**
- **All pump styles will require 480v, 3 phase, 30 amp service.**

Piping and plumbing type and size:

- Total length and elevation change in piping should be kept to the minimum.
- Hard piping is recommended. Hard pipe material should be black steel. Recommend using 3/4" inside diameter hose or hard pipe from tank to pump skid.
- If flexible piping (hose) is to be used, an increased internal diameter of at least 1" is recommended.

Plumbing from Tank to Pump Skid:

- Use of a bottom feeding outlet from the tank is recommended for optimal distribution.
- Top feed tank outlets may require different style of pump application/engineering.
- Best practice would be 1" line from tank to pump skid (if available).

Plumbing from Pump to Mixing Drum:

- The ideal injection point is generally immediately after the asphalt binder pump.
- Based on the plant setup and location of the pump skid, other injection points can be considered.
- Hard pipe plumbing of an internal diameter of 3/4" is preferred. If not available, 3/4" hose can be used instead.

Cargill is here to provide tailored guidance and support, whatever your needs may be.
Reach out to your representative today.

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