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 ¾” is preferred. If not available, ¾” 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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