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Effective	May 2002
Replaces	New
Section	500

Don't restrict the inlet line.

YES

Use inlet line same size or larger than pump inlet connection.

NO

Don't install restrictive fittings close to pump inlet.

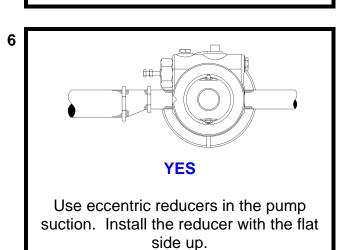
10 PIPE DIAMETERS

YES

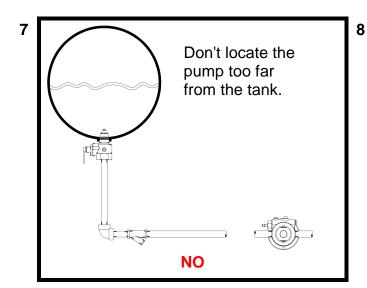
When possible, install fittings at least 10 pipe diameters upstream of the pump inlet.

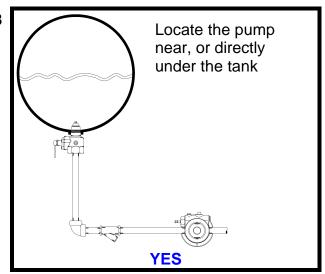
NO

Don't use concentric reducers in the pump suction.

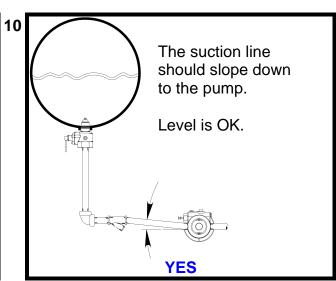


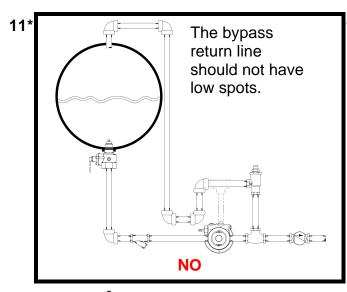
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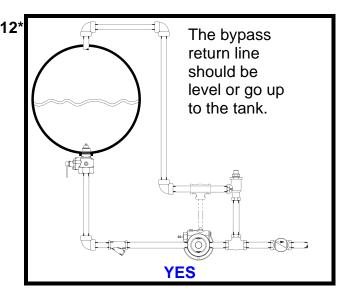




Don't slope the suction line up to the pump.

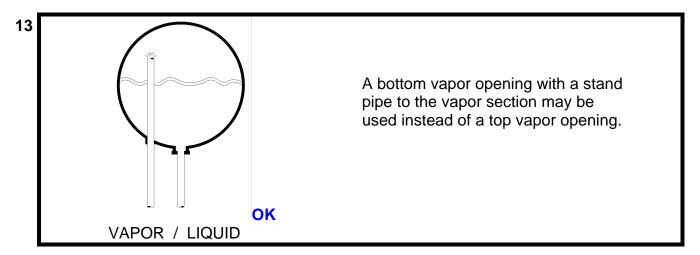


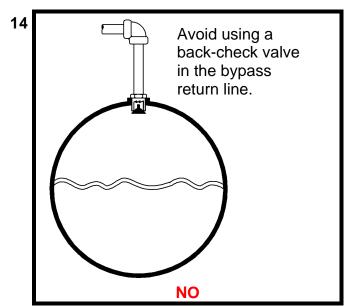


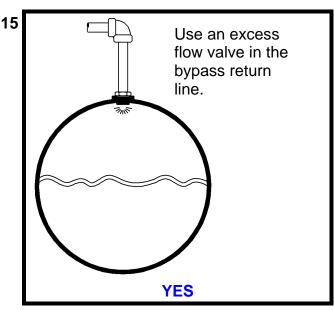


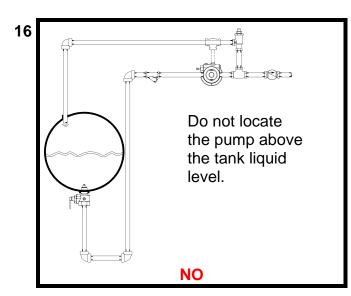


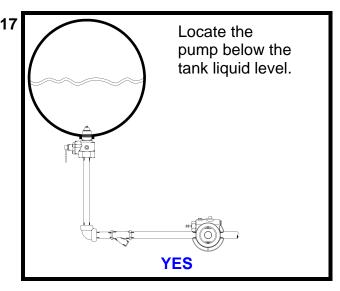
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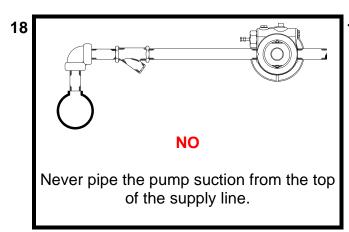


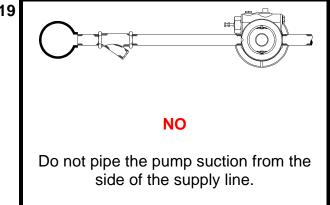


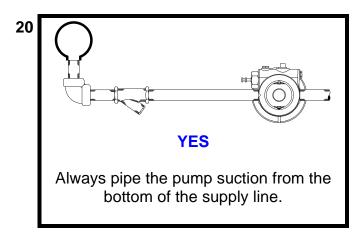


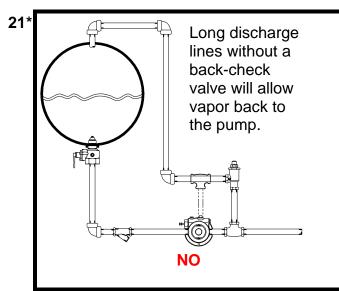


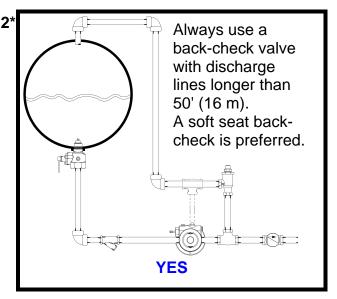






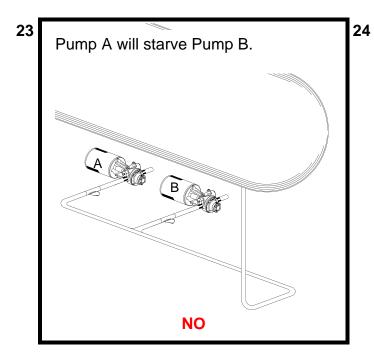


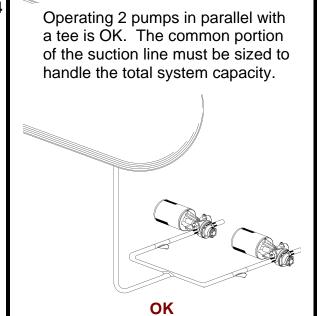






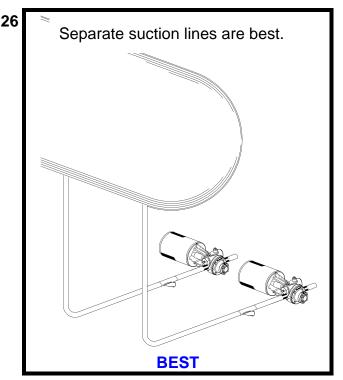
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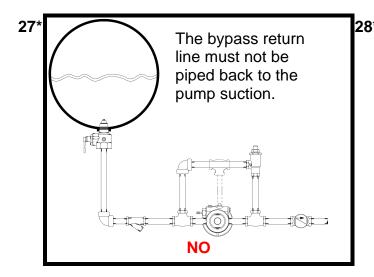


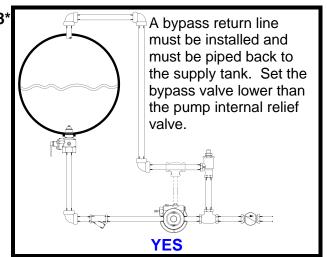
Operating 2 pumps in parallel with a wye is better. The common portion of the suction line must be sized to handle the total system capacity.

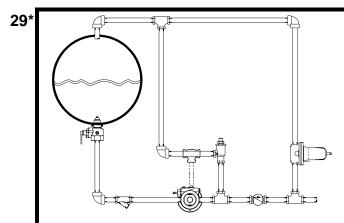
GOOD









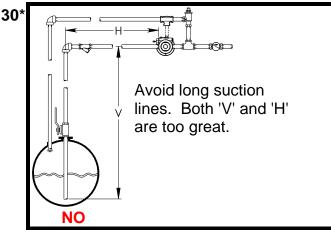


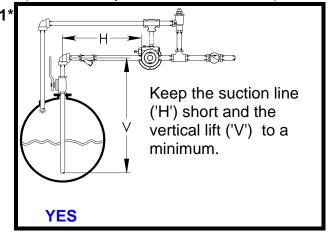
CONSTANT PRESSURE APPLICATION

For constant pressure applications, such as vaporizer feed pumps, a separate pressure control valve such as a Fisher 98H may be necessary in addition to the normal differential pressure back-to-tank bypass valve.

Locate the check valve as shown.

PUMPING FROM UNDERGROUND TANKS (Consult Factory for additional information.)





* Drawings 11, 12, 16, 21, 22, 27, 28, 29, 30 & 31. Blackmer 1" LG pumps feature an internal relief valve that may also be piped back to the supply tank eliminating the need for an external valve. Blackmer LGL 1.25" pumps and larger must use an external back-to-tank relief valve.

Note: The drawings in this document show only the items referred to in the text. All installations must conform to local codes and will require the addition of unions, shut-off valves, hydrostatic relief valves, etc.

