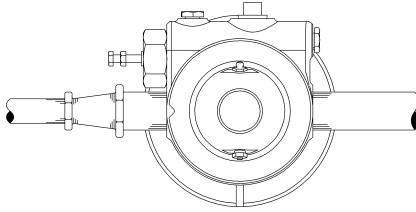


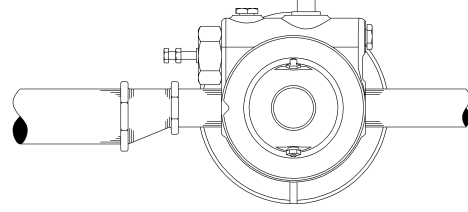
1



**NO**

Don't restrict the inlet line.

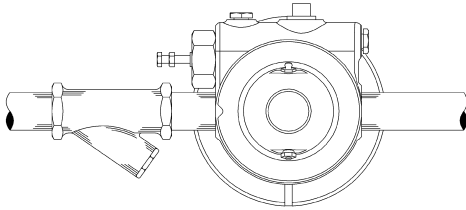
2



**YES**

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

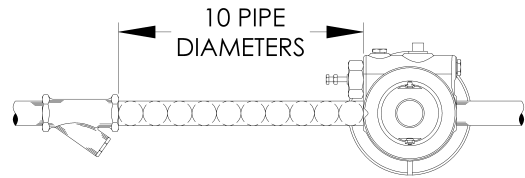
3



**NO**

Don't install restrictive fittings close to pump inlet.

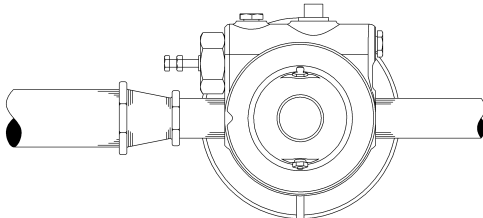
4



**YES**

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

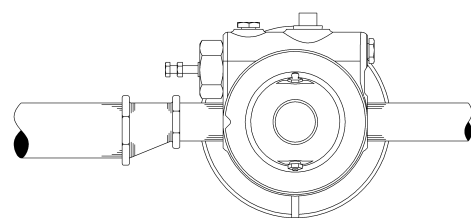
5



**NO**

Don't use concentric reducers in the pump suction.

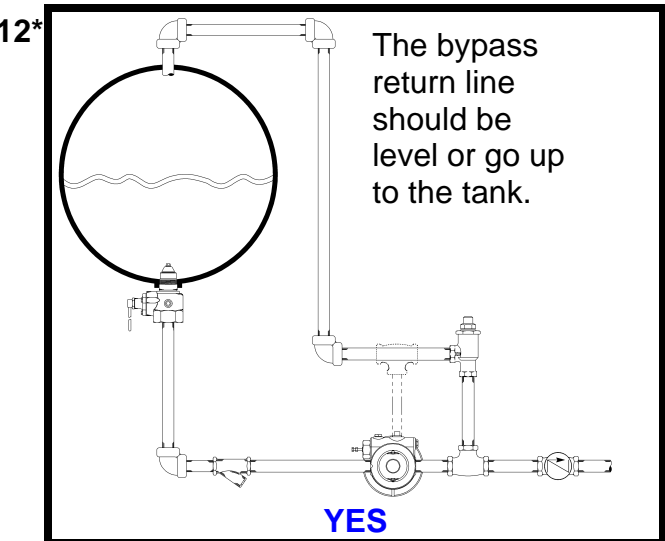
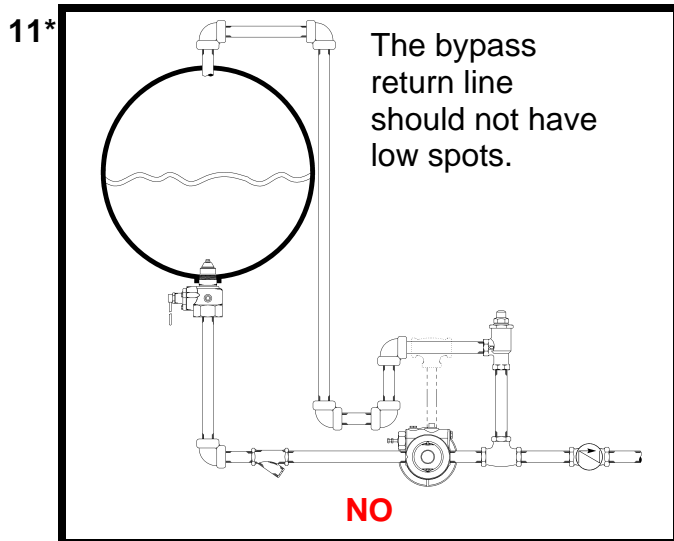
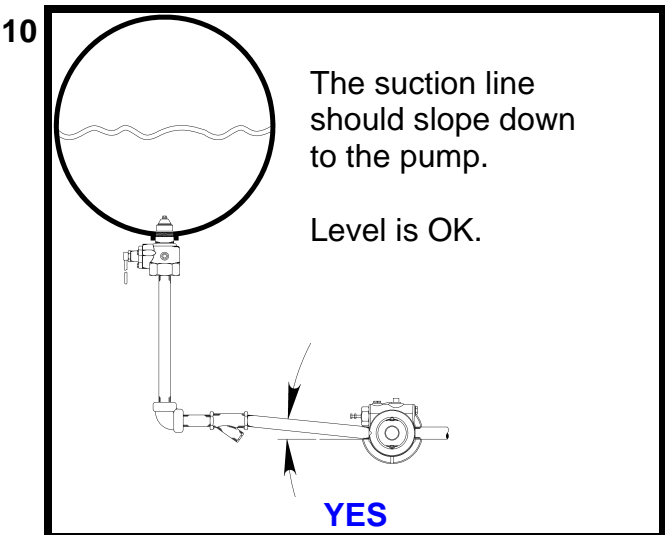
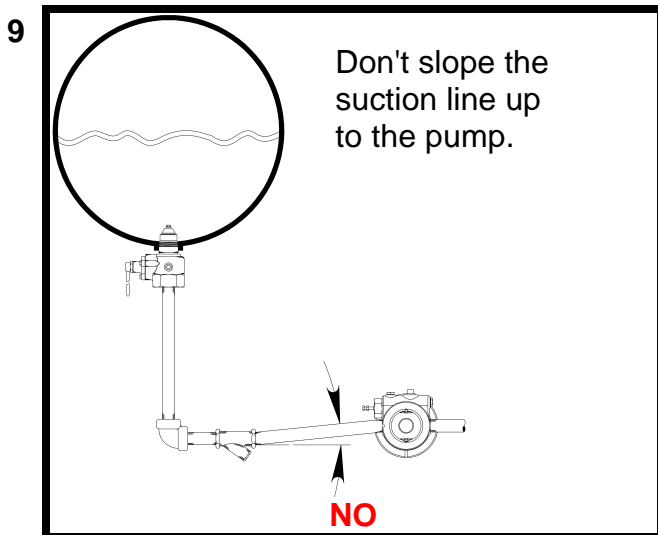
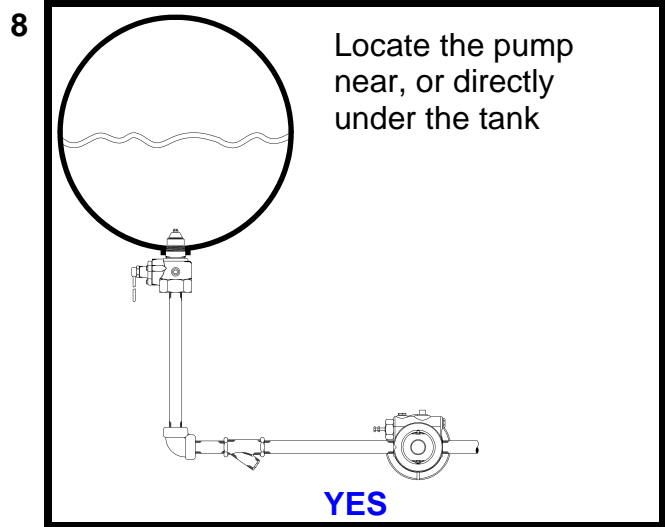
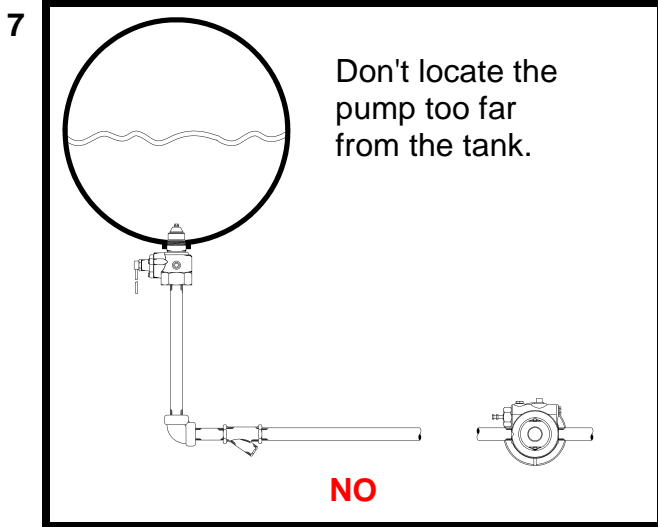
6



**YES**

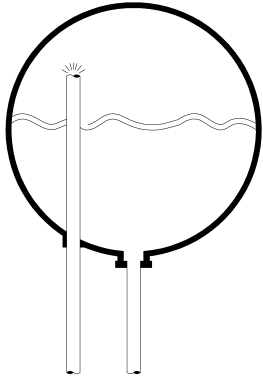
Use eccentric reducers in the pump suction. Install the reducer with the flat side up.

# LIQUEFIED GAS PUMP INSTALLATION GUIDE



# LIQUEFIED GAS PUMP INSTALLATION GUIDE

13

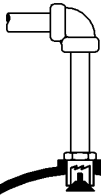


A bottom vapor opening with a stand pipe to the vapor section may be used instead of a top vapor opening.

OK

VAPOR / LIQUID

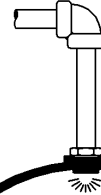
14



Avoid using a back-check valve in the bypass return line.

NO

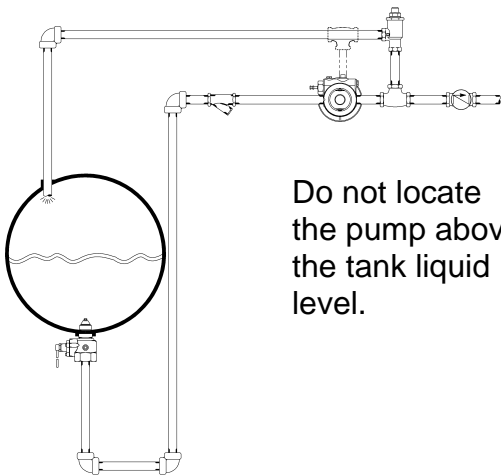
15



Use an excess flow valve in the bypass return line.

YES

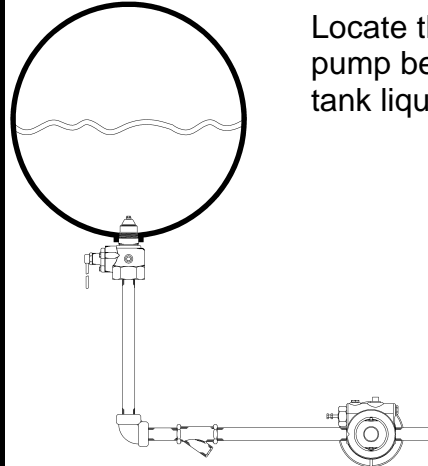
16



Do not locate the pump above the tank liquid level.

NO

17

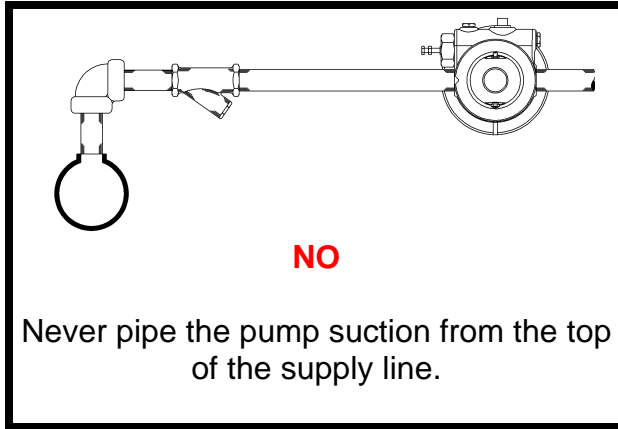


Locate the pump below the tank liquid level.

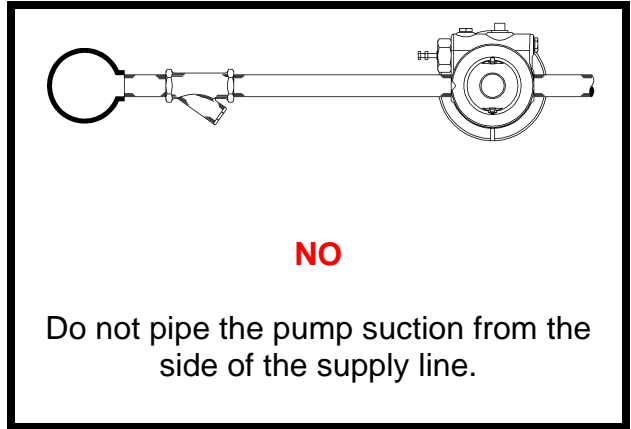
YES

# LIQUEFIED GAS PUMP INSTALLATION GUIDE

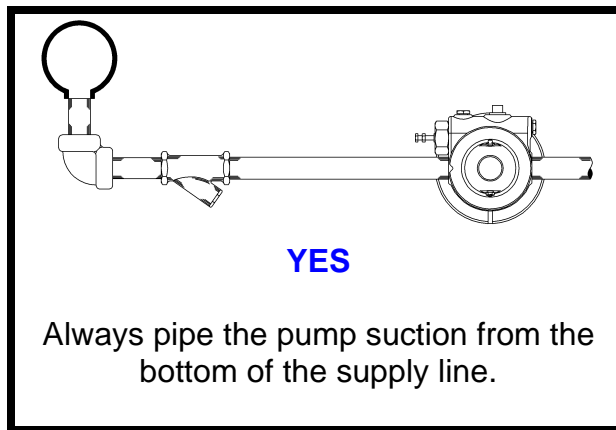
18



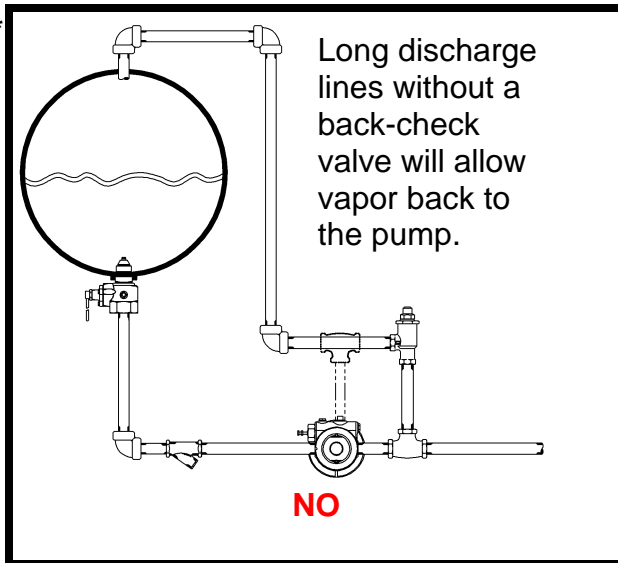
19



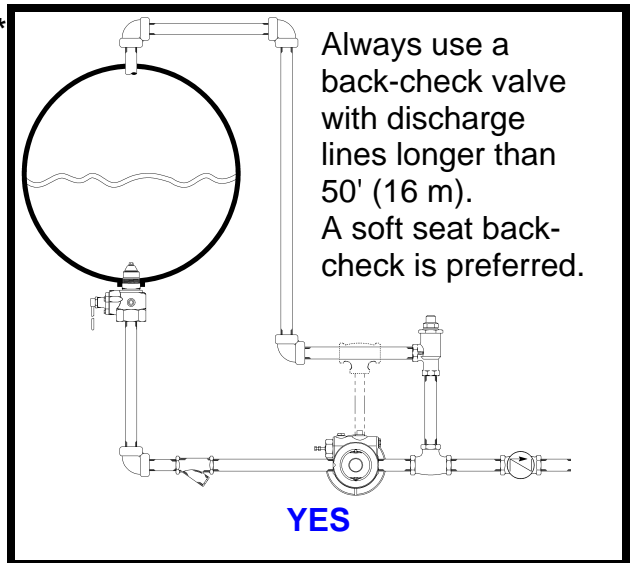
20



21\*



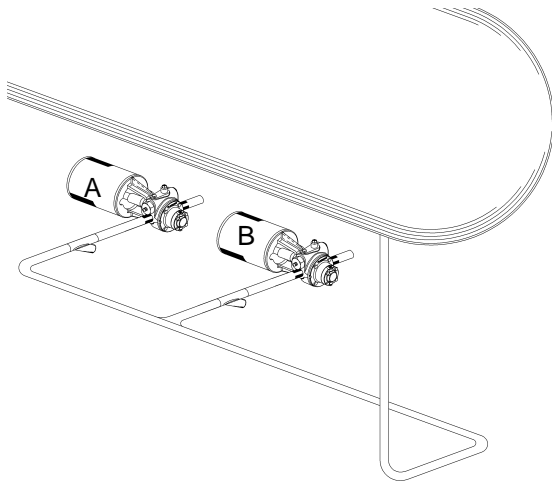
22\*



# LIQUEFIED GAS PUMP INSTALLATION GUIDE

23

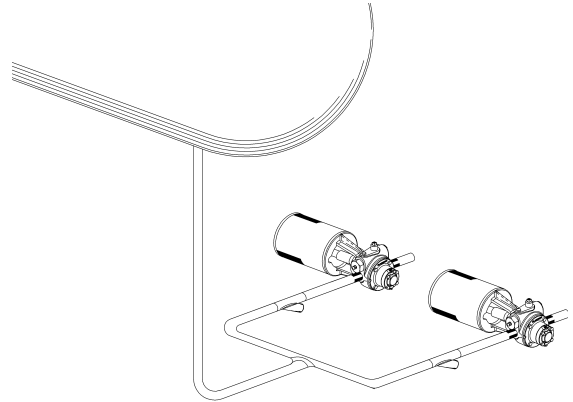
Pump A will starve Pump B.



**NO**

24

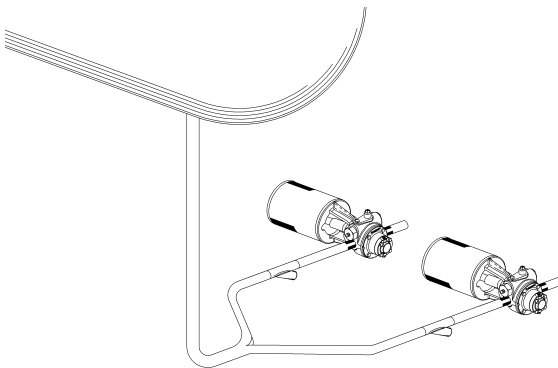
Operating 2 pumps in parallel with a tee is OK. The common portion of the suction line must be sized to handle the total system capacity.



**OK**

25

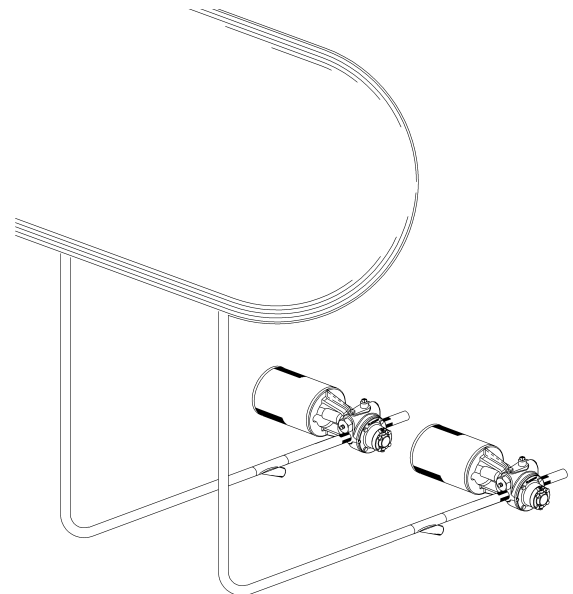
Operating 2 pumps in parallel with a wye is better. The common portion of the suction line must be sized to handle the total system capacity.



**GOOD**

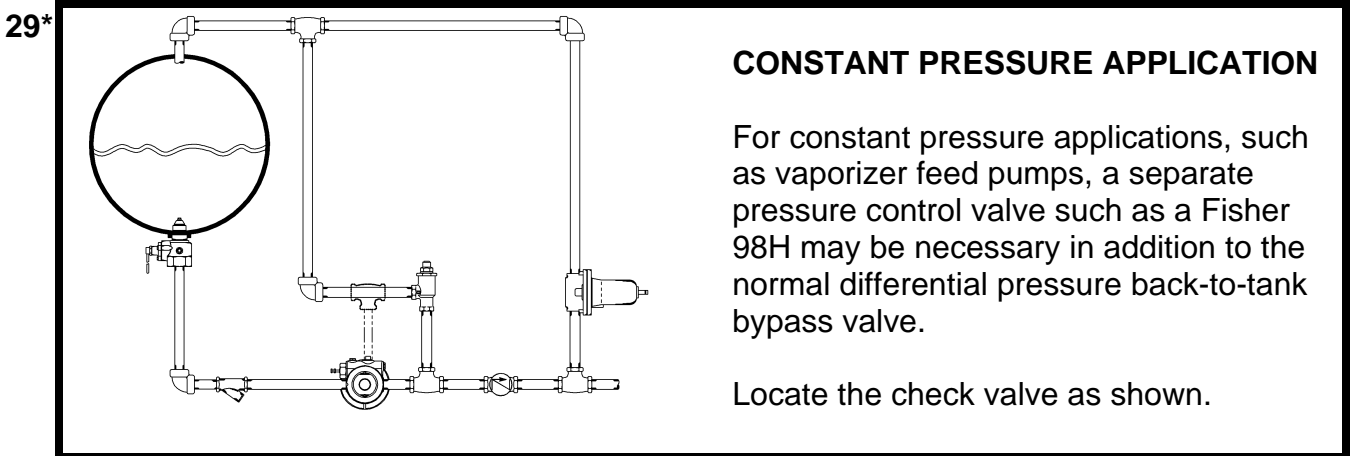
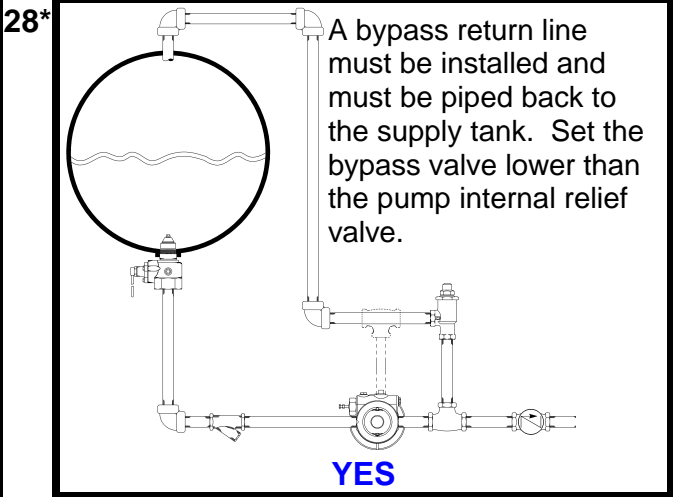
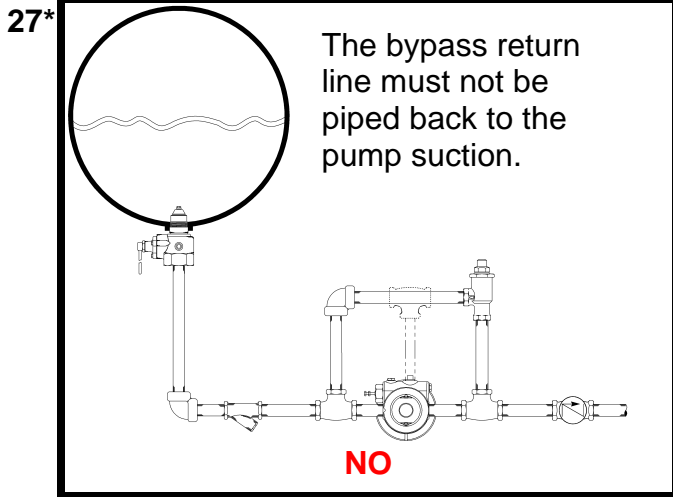
26

Separate suction lines are best.

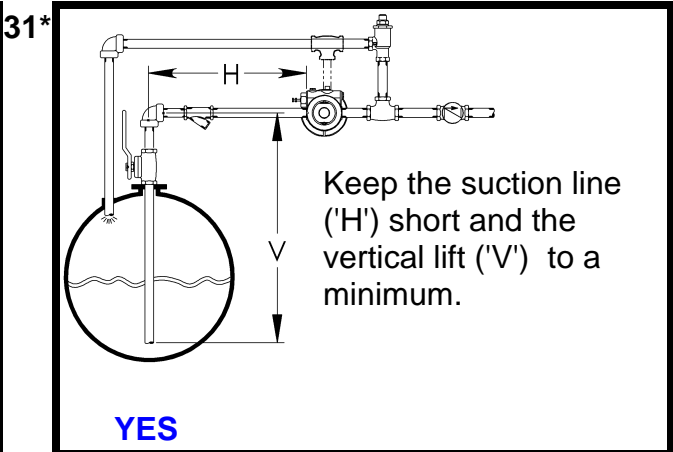
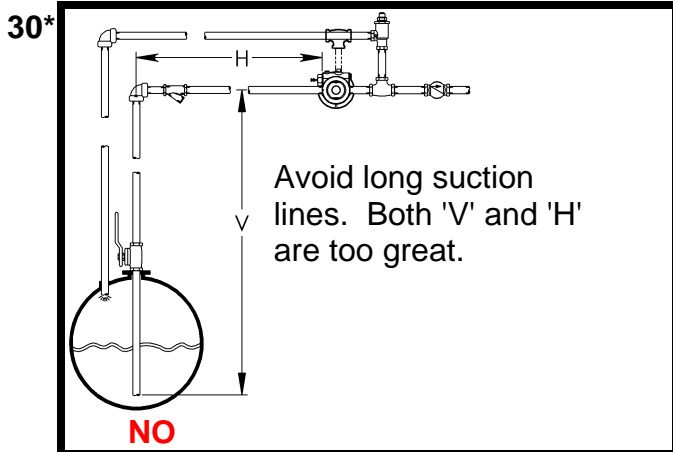


**BEST**

# LIQUEFIED GAS PUMP INSTALLATION GUIDE



## 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.