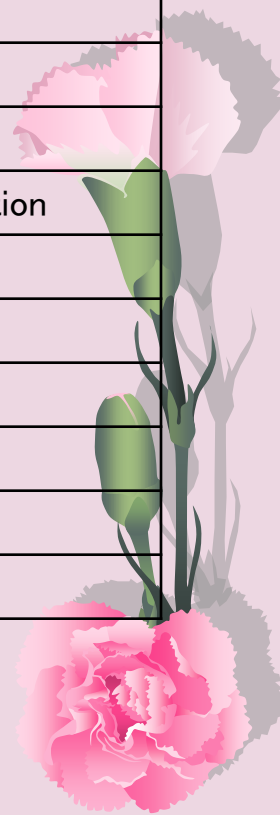


Specification for pump selection

To select an appropriate pump, the following specifications are required.

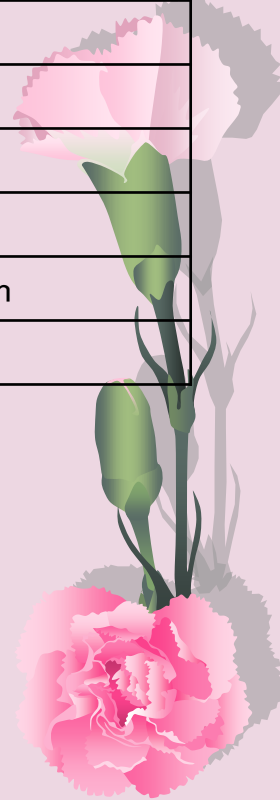
In other words, if the following specifications are not clear, it would become the origin of the trouble.

No.	Item	Individual	
1.	Applied specification	Properly	
2.	Order date	Properly	
3.	Delivery date	Properly	
4.	Liquid characteristics	Liquid name	Corrosion due to
		Saturated vapor pressure	Erosion/Crystallization due to
		Density	if yes, particulate size
		Specific heat	if yes, particulate concentration
		Viscosity	H ₂ S concentration
5.	Operating conditions	Pumping temperature	Suction pressure
		Rated flow	Total head
		Maximum flow	NPSHA
		Minimum flow	Intermittent operation
		Discharge pressure	



Specification for pump selection

No.	Item	Individual	
6.	Site and utility data	Tropicalization required	Cooling water pressure
		Electric area classification	Cooling water temperature
		Elevation (sea level)	Cooling water chloride concentration
		Ambient temperature	Instrument air pressure
		Relative humidity	Instrument air temperature
		Voltage	Steam pressure
		Pole number	Steam temperature
		Hertz	
7.	Performance	Max. allowable sound press. level required	NPSH margin
		Suction specific speed limit	Direction of rotation
8.	Driver	Properly	



Specification for pump selection

No.	Item	Individual	
9.	Construction	Suction/Discharge nozzle face	Bearing lubrication method
		Suction/Discharge nozzle rating	Casing support
		Suction/Discharge nozzle position	Max. allowable working pressure
		Pressure casing auxiliary connections	Critical speed required
		Drain	Coupling type
		Vent	Common baseplate
		Materials	Shaft seal type
		Bearing type	Instruments
10.	Surface preparation and paint	Properly	
11.	Shop inspection and test	Properly	
12.	Welding and repairs	Properly	
13.	Spare parts	Properly	
14.	Special requirements	Properly	

