

# HANDOUT- SELECTION QUESTIONS

Item	Question
1	What type of treatment system are we dealing with
2	What are we pumping into
3	How important is accuracy
4	Is flow pulsation an issue
5	What fluid are you injecting
6	Can you provide an MSDS
7	Is the liquid expensive
8	Maximum liquid temperature
9	Minimum liquid temperature
10	Any abrasives
11	Any entrained gases
12	Any piping system pressure limits
13	What is the viscosity of the liquid
14	What is the specific gravity of the liquid
15	At what intervals must the liquid be injected
16	What will be used to monitor the needed injection rate
17	How will feedback on this be provided to the pump
18	Will the pump controls be manual or automatic
19	Is it constant control, or
20	Is it batch control, or
21	Is it feed forward control, or
22	Is it feed back control, or
23	Is it combined control
24	What pump materials are dictated by the fluid
25	What o-ring material is required
26	What valve ball material is required
27	What ball seat material is required
28	Are there any applicable specifications
29	Are any national or local Standards or Codes referenced

Item	Question
30	Is UL listing or recognition required
31	What is the injection rate required
32	Is a flow safety factor required (for priming issues)
33	Might the flow rate change in the future
34	What psi is required at the injection point
35	How far from the point of injection will the pump be located
36	Might the psi requirement change in the future
37	What is the suction lift in feet
38	What is the suction piping specification
39	Is the suction vessel vented to atmosphere, or
40	What is pressure of atmosphere in vessel if it is not vented
41	What voltage
42	What Hertz
43	What phase
44	What environment -is it hazardous
45	What motor enclosure

**Item From the above you must determine:**

a	Is the liquid toxic
b	Is it corrosive
c	Is it hazardous
d	Is it expensive
e	What is the vapor pressure of the fluid
f	Is there adequate NPSHa
g	Do we need anti-cavitation provisions
h	What psi will the pump be exposed to
i	Will turndown impact pump flow rate

**It is a good idea to know:**

Who will do installation and start up
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**Dosing Pump Sizing and Selection Questions** September 15, 2016

New application or replacement pump?

If new, do you need just a pump or a complete injection system? If just a pump: