

Pump selection and how to use the Selection chart

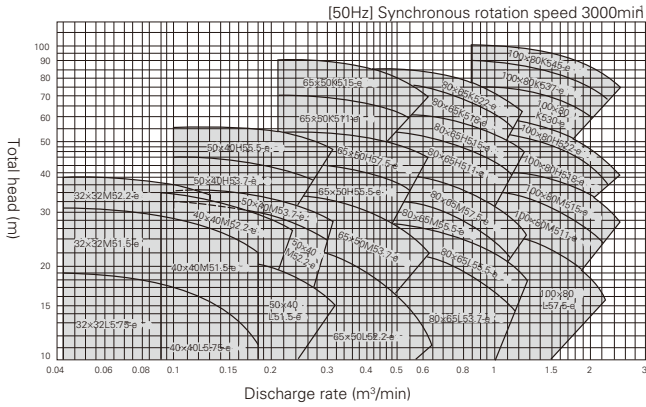


Fig.1

The pump selection chart is made by combining the Q-H curves (Q: Discharge rate H: Total head) at the point where the efficiencies of the pumps are maximized as shown in Fig. 1

When selecting a pump, select the optimum pump from the selection chart based on the performance (discharge rate and total head) of the pump required at the site. (Fig. 2)

The selection chart also shows the rated output of the motor used for each pump.

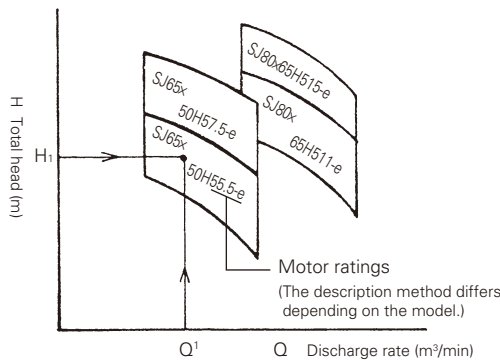


Fig.2

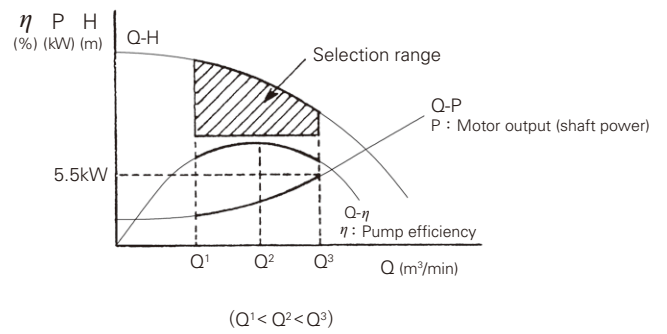


Fig.3

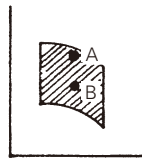


Fig.4

The operating points of the actual pump differ slightly between the case where the pump is selected at point A and the case where the pump is selected at point B in the selection range. (Fig. 4)

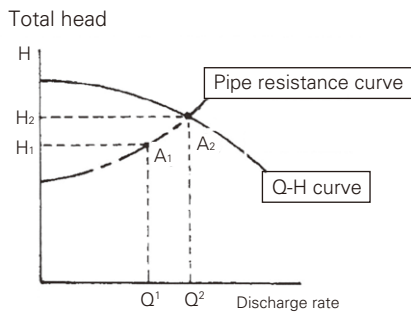


Fig.5

The pumps are operated on Q-H curve in the selection chart. The operating point of the pump is the intersection of Q-H curve and the pipe resistance curve. Therefore, when selected at A1 point, the actual operating point is A2 point, which is the intersection of Q-H curve and the pipe resistance curve. (Fig. 5) Please select so that the actual operation flow rate is within the scope shown in the selection chart.