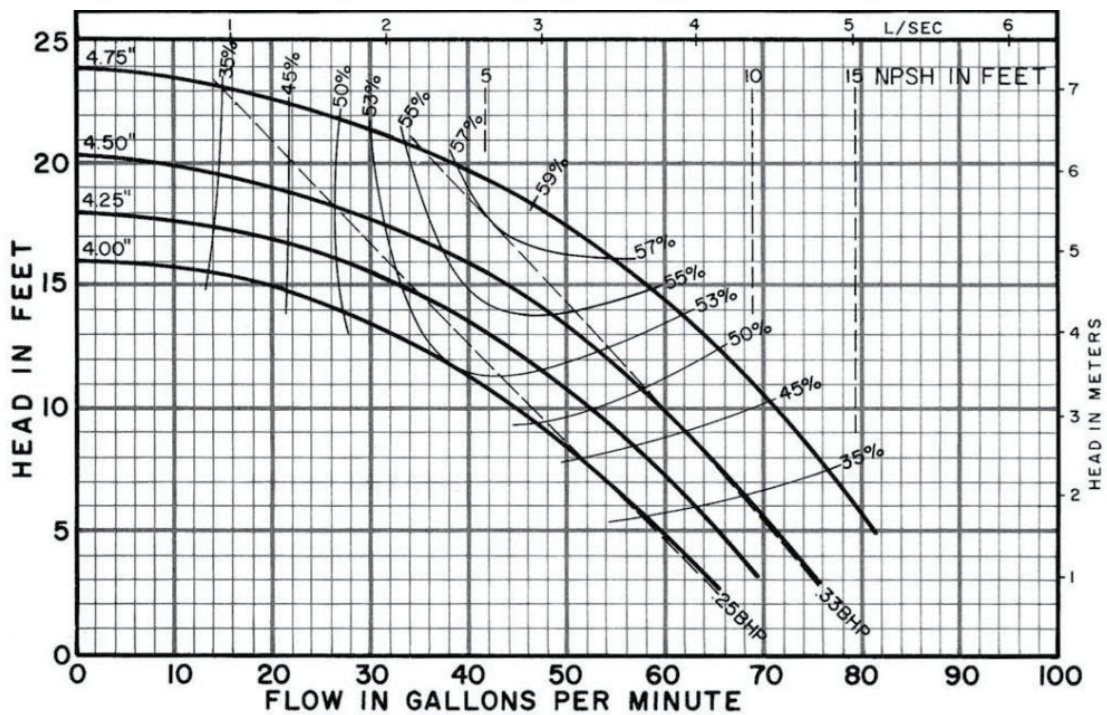


36.43 The operating pressure in a hydronic system is 15ft of head and the required flow is 120gpm . The system has been designed with 3 pumps operating in parallel. Referring to the pump curves below, what is the minimum impeller size sufficient for the system?

- A. 4.00in
- B. 4.25in
- C. 4.50in
- D. 4.75in



Refer to **Pump Performance Curves**.

Since the 3 pumps are in parallel, the head added is the same across each pump.

$$\Delta h = 15\text{ft}$$

The volume flow rate will be split equally across all 3 pumps.

$$Q = \frac{120\text{gpm}}{3} = 40\text{gpm}$$

Find the operating point on the chart for 40gpm , 15ft and choose the next size up, which is the 4.5in impeller.

Answer C