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# Self-Priming Pump

**Model ESPT**  
**Model ESPU**



Performance Curve

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**EBARA**

EBARA Pumps Americas Corporation

**Performance Curve**

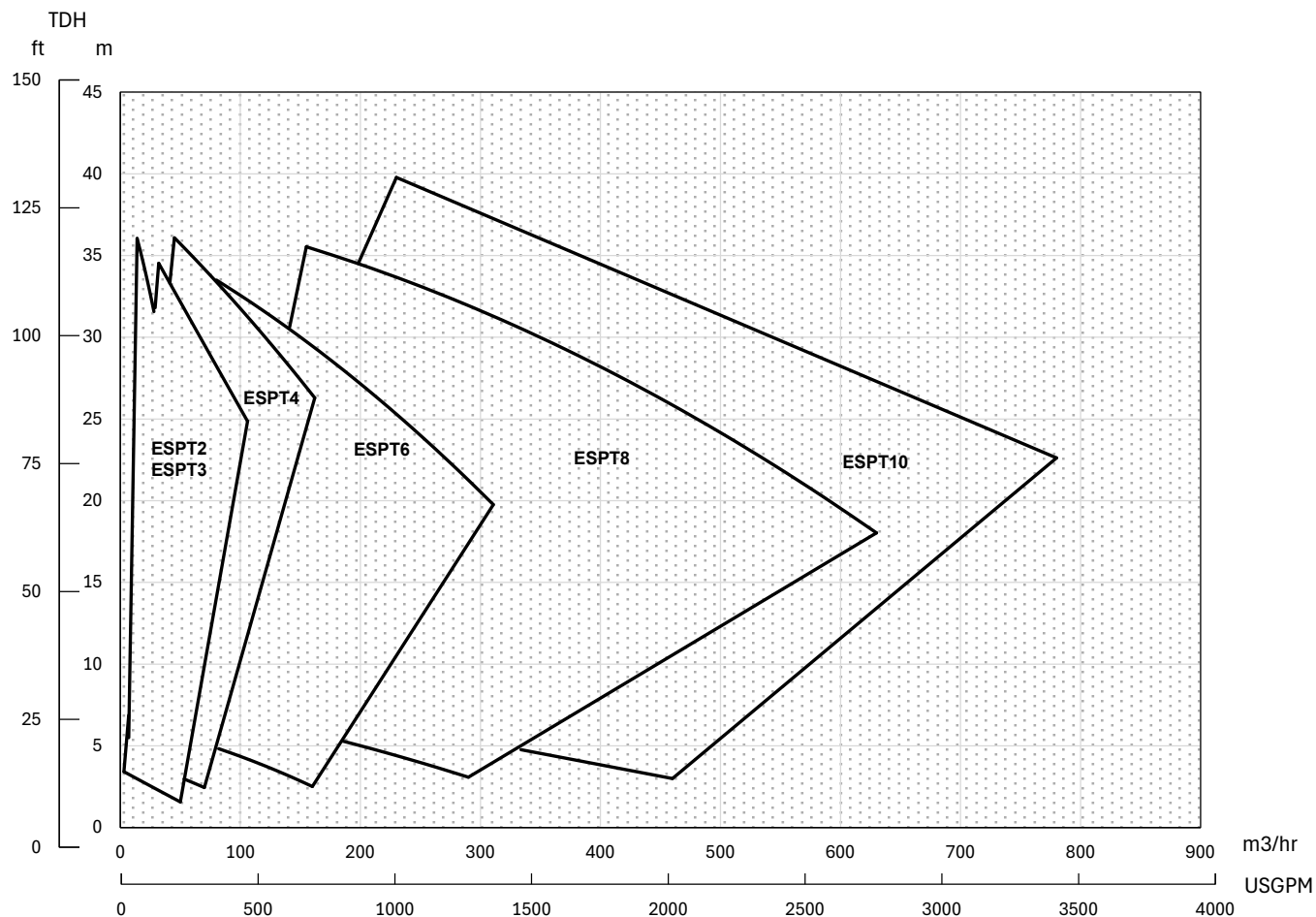
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The Performance is based on 88°F (31° C) clear water at sea level with minimum suction lift. Since pump installations are seldom identical, the performance may be different due to factors such as viscosity, specific gravity, elevation, temperature, and impeller trim.



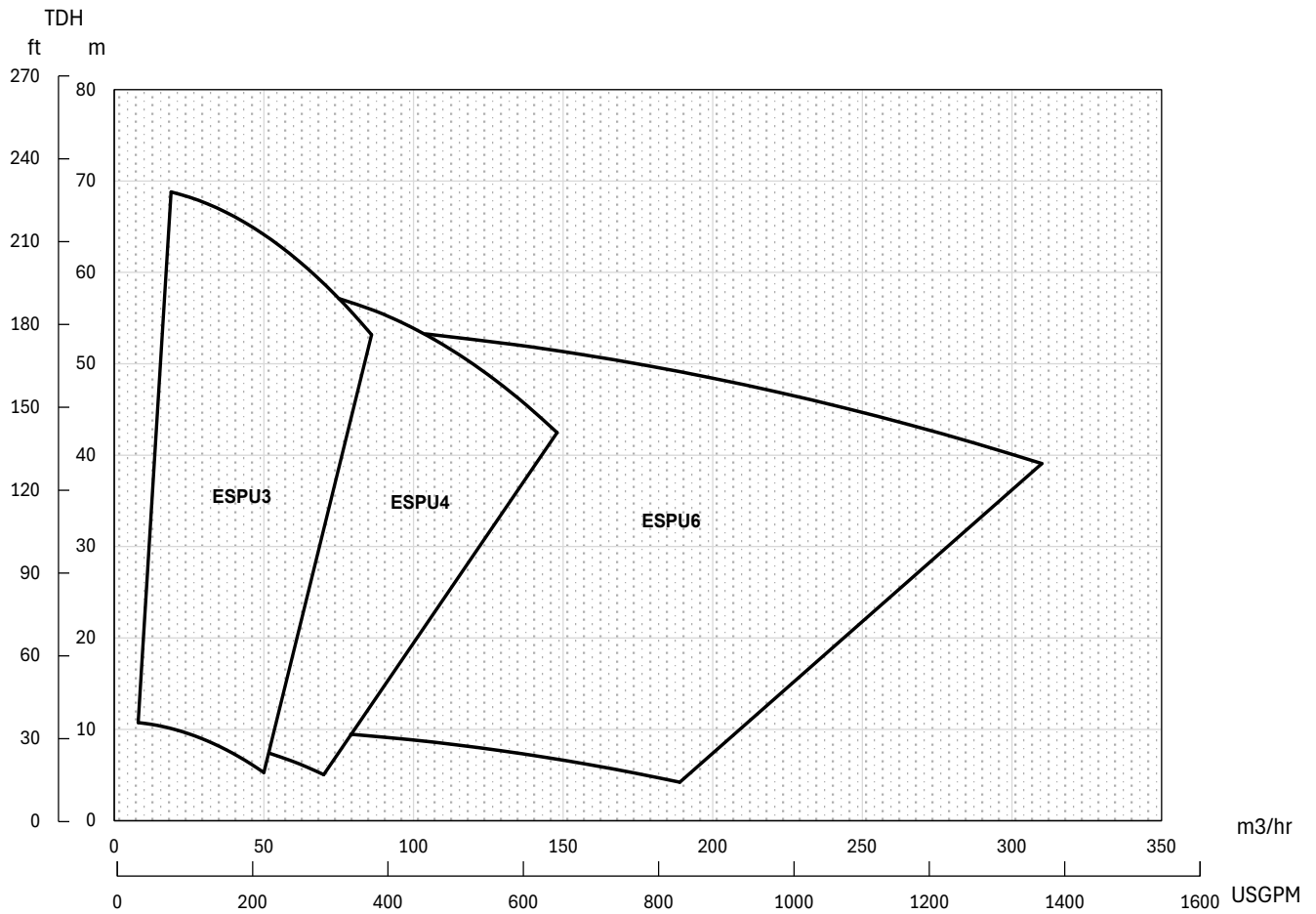
**Performance Curve**

**Model ESPT  
Selection Chart**



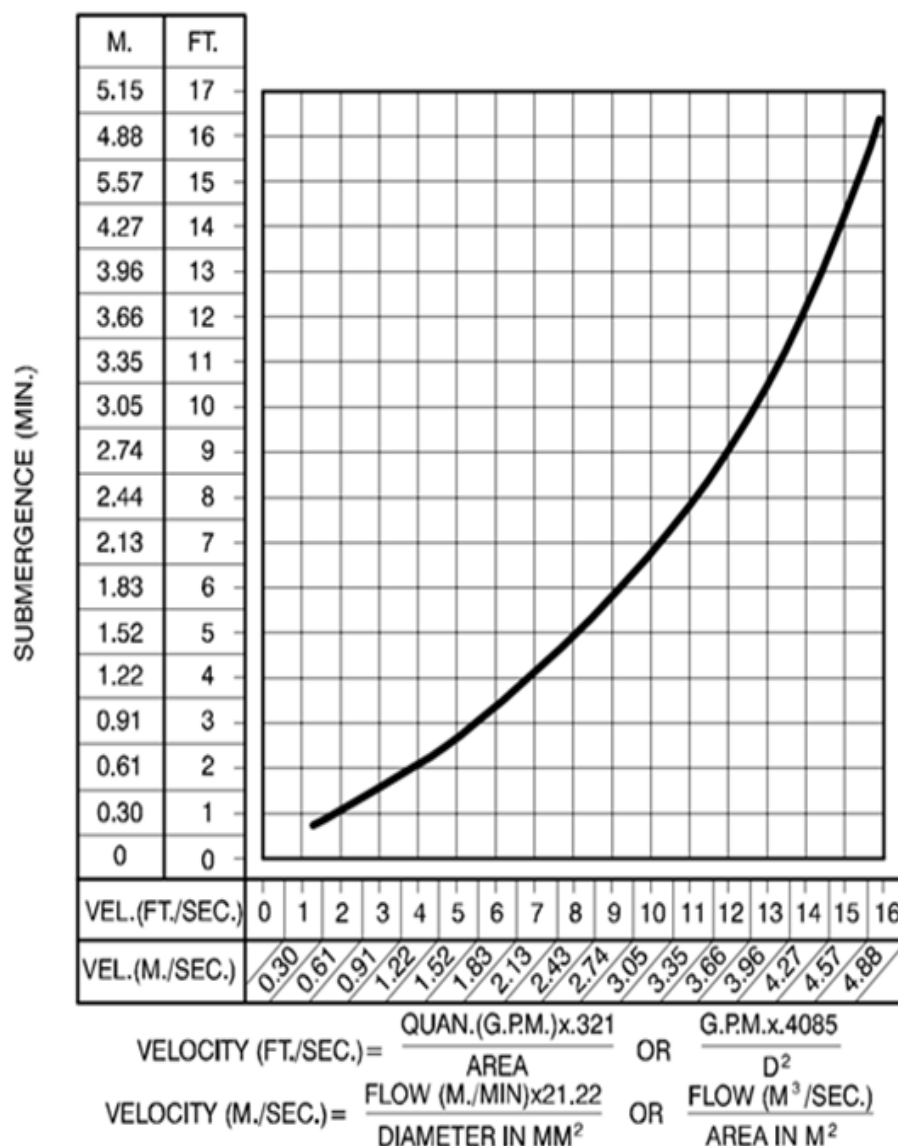
Performance Curve

Model ESPU  
Selection Chart



## Performance Curve

## Suction Speed Flow Curve



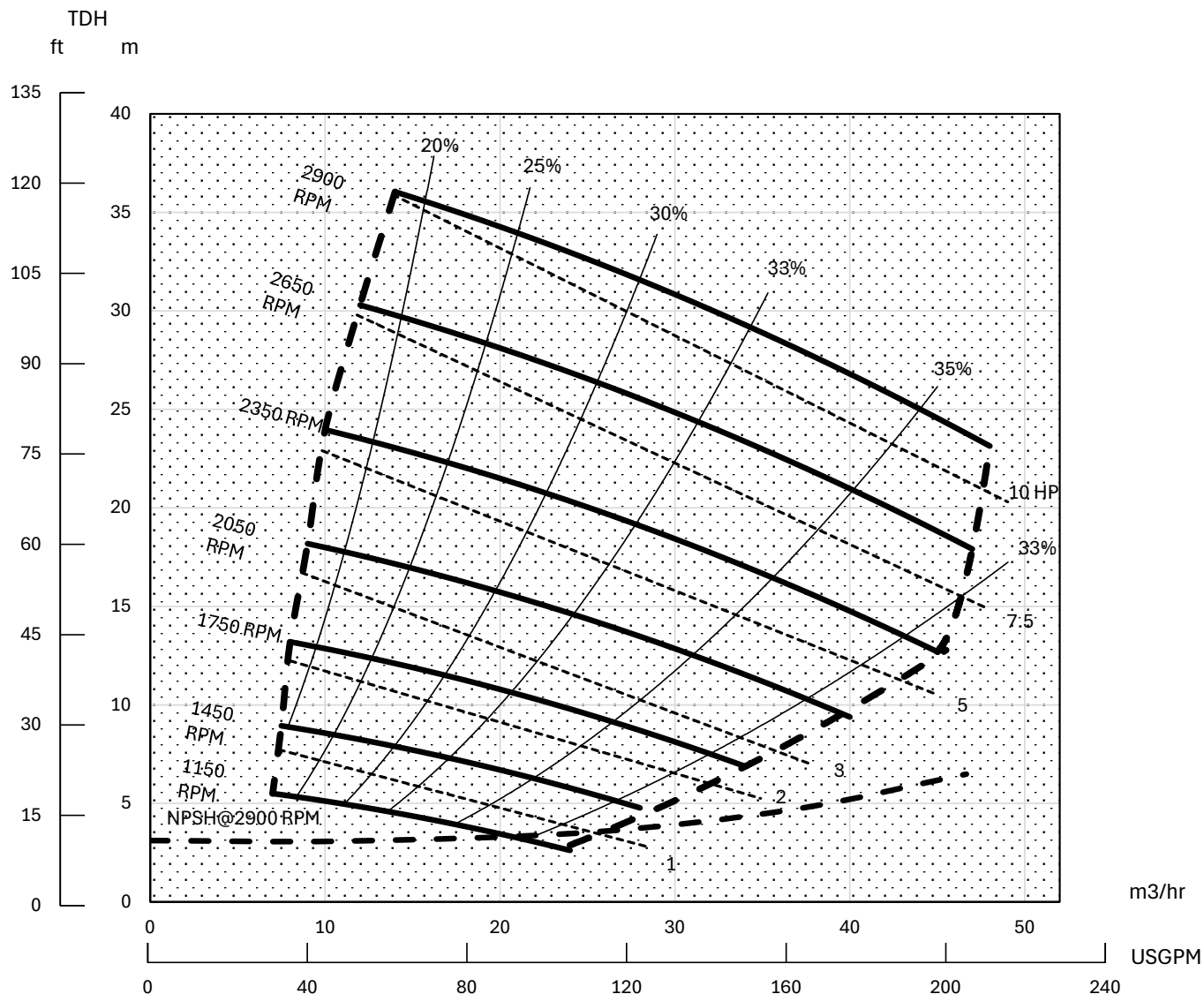
The depth of submergence of the suction line is critical to efficient pump operation. Please refer to the above curve document for recommended minimum submergence vs. velocity.

**NOTE:** The pipe submergence required may be reduced by installing a standard pipe increaser fitting at the end of the suction line. The larger opening size will reduce the inlet velocity. Calculate the required submergence using the following formula based on the increased opening size (area or diameter).

Performance Curve

ESPT2

2inch Discharge



Repriming Lift

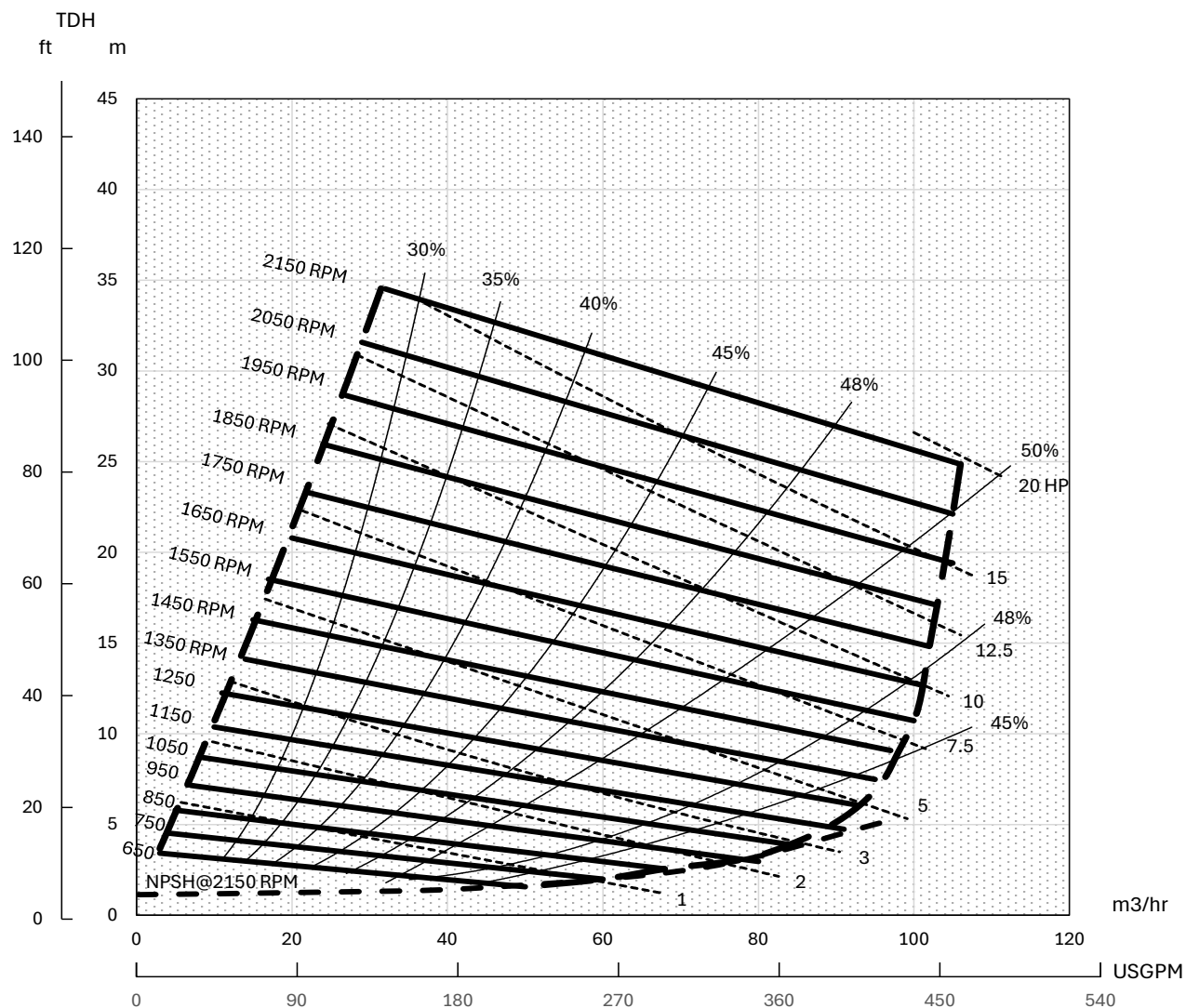
| RPM | 1150 | 1450 | 1750 | 2050 | 2350 | 2650 | 2900 |
|-----|------|------|------|------|------|------|------|
| Ft  | 24   | 25   | 25   | 25   | 25   | 25   | 25   |
| m   | 7.3  | 7.6  | 7.6  | 7.6  | 7.6  | 7.6  | 7.6  |



Performance Curve

ESPT3

3inch Discharge



Repriming Lift

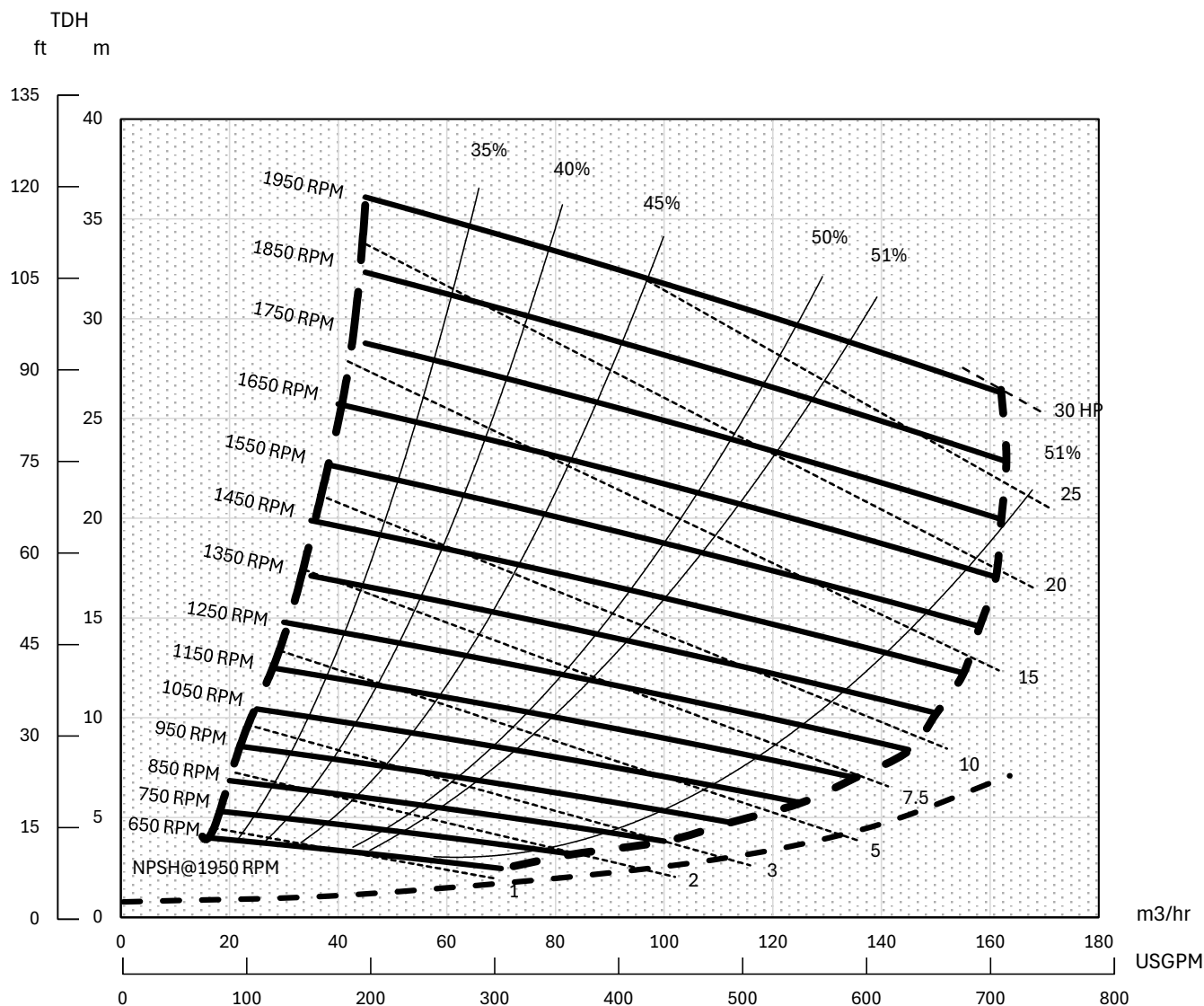
| RPM | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250 | 1350 | 1450 | 1550 | 1650 | 1750 | 1850~2150 |
|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|-----------|
| Ft  | 5   | 6   | 8   | 10  | 13   | 16   | 18   | 19   | 21   | 21   | 22   | 22   | 25        |
| m   | 1.5 | 1.8 | 2.4 | 3.0 | 4.0  | 4.9  | 5.5  | 5.8  | 6.4  | 6.4  | 6.7  | 6.7  | 7.6       |



Performance Curve

ESPT4

4inch Discharge



Repriming Lift

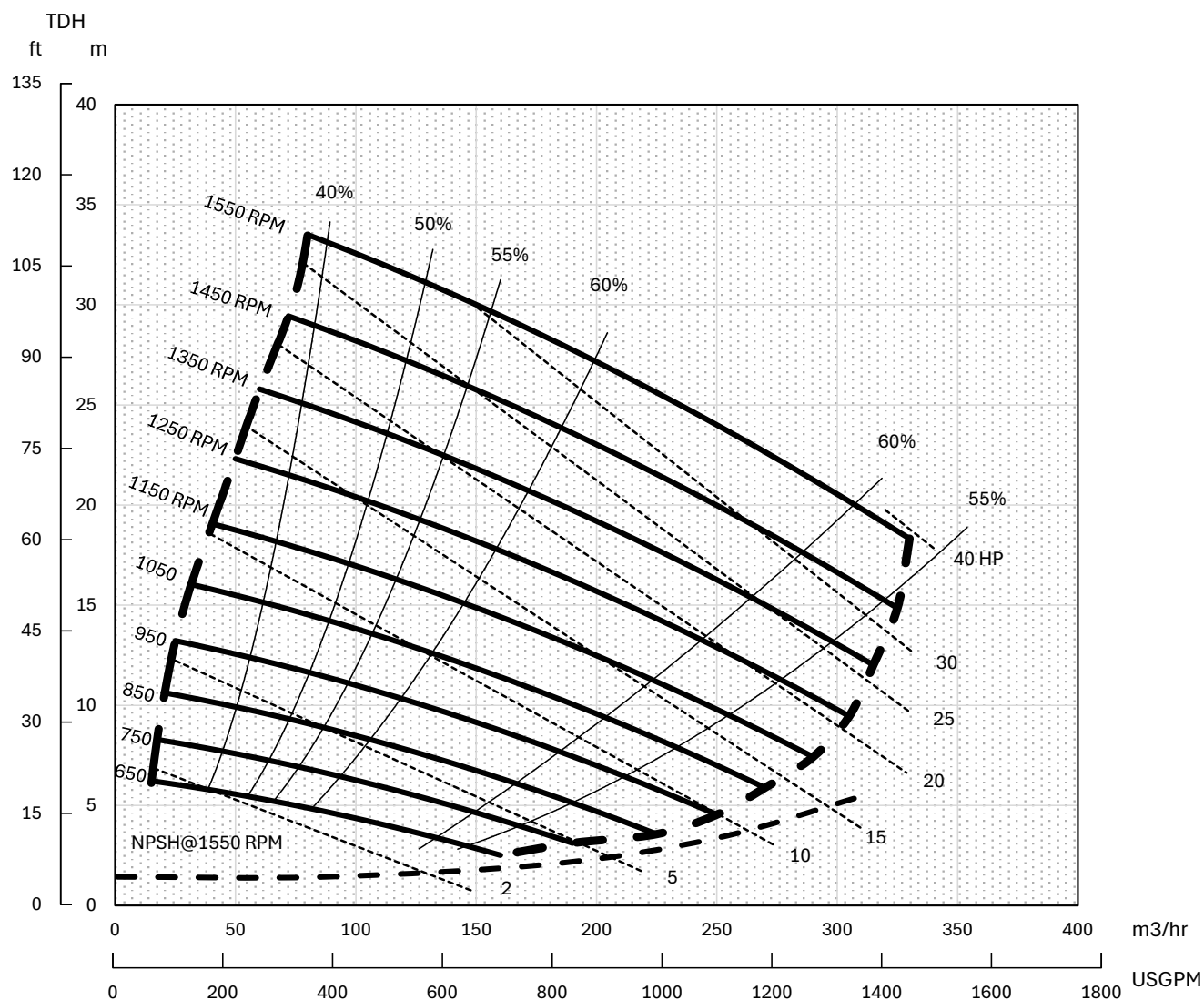
| RPM | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250~1950 |
|-----|-----|-----|-----|-----|------|------|-----------|
| Ft  | 5   | 8   | 16  | 19  | 22   | 24   | 25        |
| m   | 1.5 | 2.4 | 4.9 | 5.8 | 6.7  | 7.3  | 7.6       |



Performance Curve

ESPT6

6inch Discharge



Repriming Lift

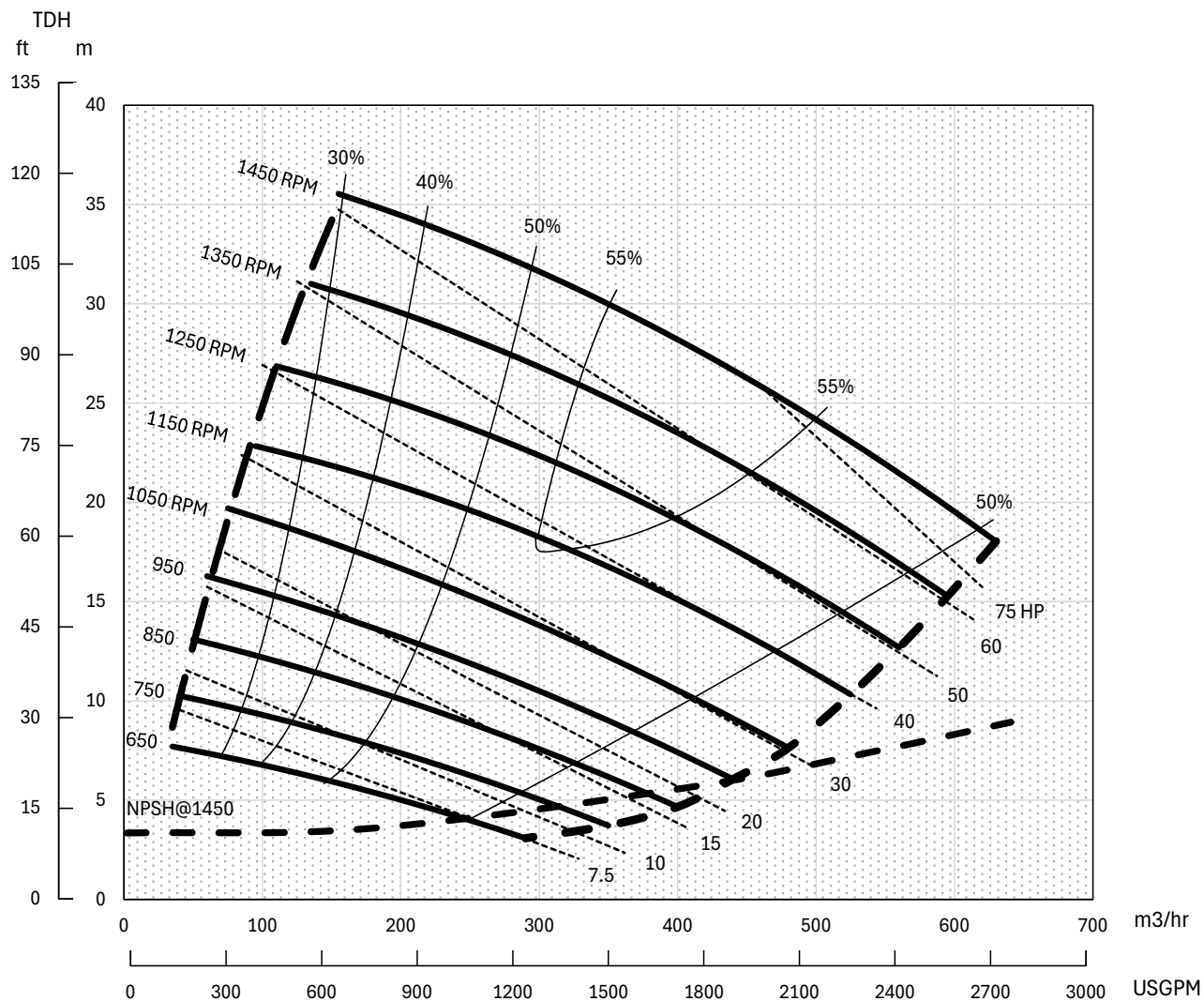
| RPM | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250 | 1350 | 1450 | 1550 |
|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| Ft  | 8   | 9   | 12  | 14  | 18   | 21   | 21   | 22   | 23   | 25   |
| m   | 2.4 | 2.7 | 3.6 | 4.2 | 5.5  | 6.4  | 6.4  | 6.7  | 7.0  | 7.6  |



Performance Curve

ESPT8

8inch Discharge



Repriming Lift

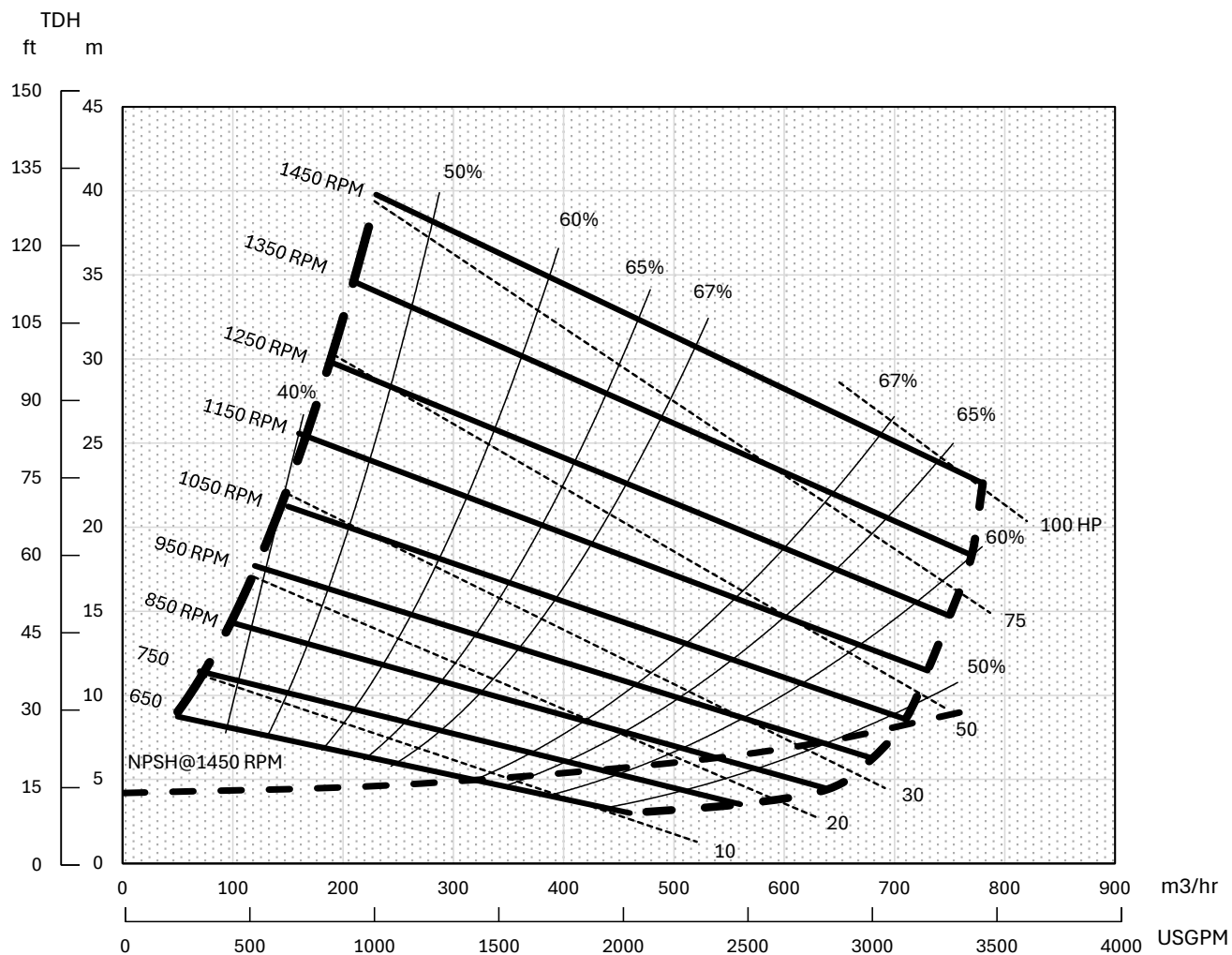
| RPM | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250 | 1350 |
|-----|-----|-----|-----|-----|------|------|------|------|
| Ft  | 9   | 12  | 15  | 17  | 20   | 21   | 22   | 23   |
| m   | 2.7 | 3.7 | 4.6 | 5.2 | 6.1  | 6.4  | 6.7  | 7.0  |



Performance Curve

ESPT10

10inch Discharge



Repriming Lift

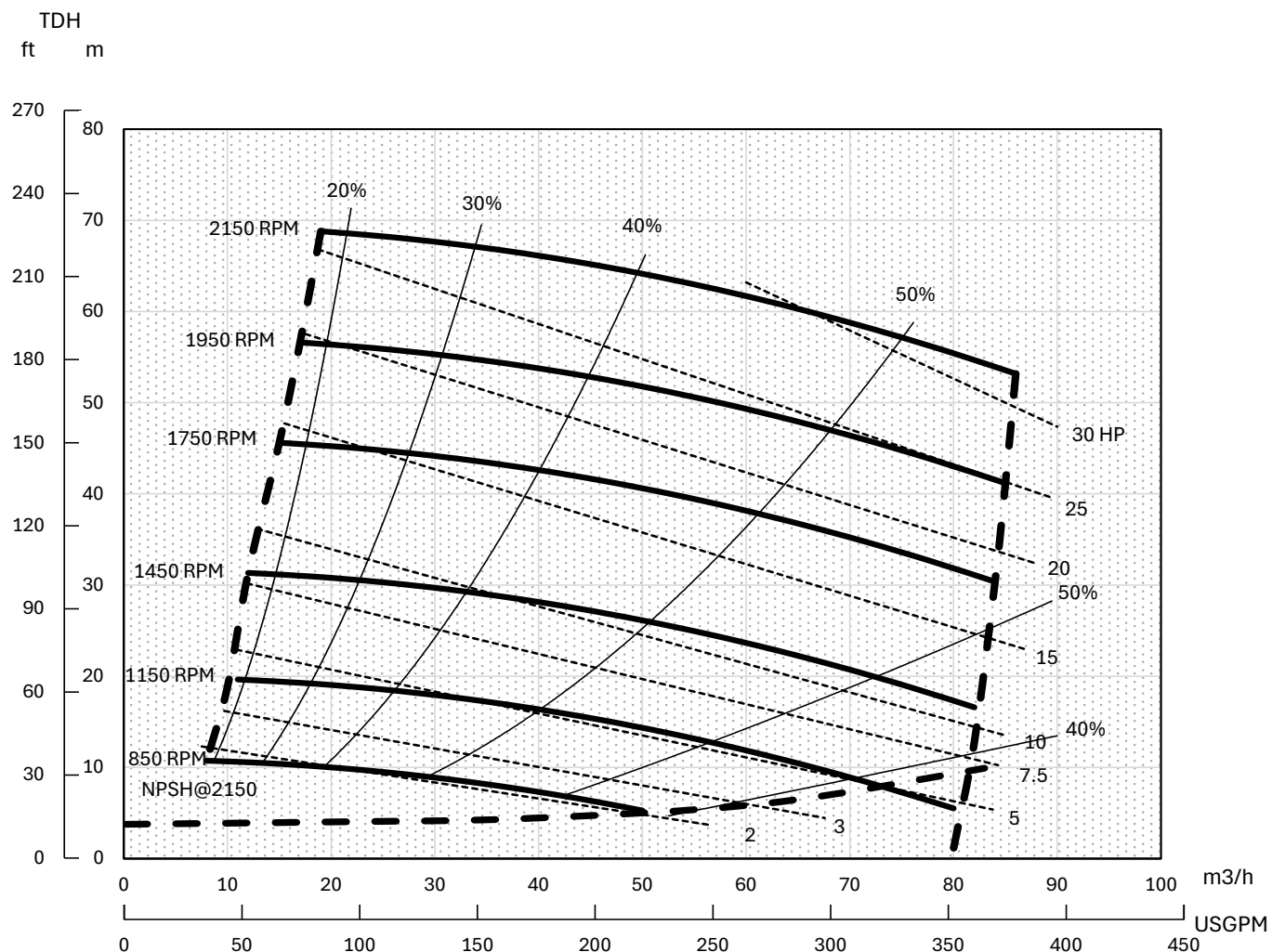
| RPM | 650 | 750 | 850 | 950 | 1050 | 1150 | 1250 | 1350 | 1450 |
|-----|-----|-----|-----|-----|------|------|------|------|------|
| Ft  | 7   | 11  | 14  | 17  | 18   | 18   | 19   | 22   | 22   |
| m   | 2.1 | 3.4 | 4.3 | 5.2 | 5.5  | 5.5  | 5.8  | 6.7  | 6.7  |



Performance Curve

ESPU3

3inch Discharge



Repriming Lift

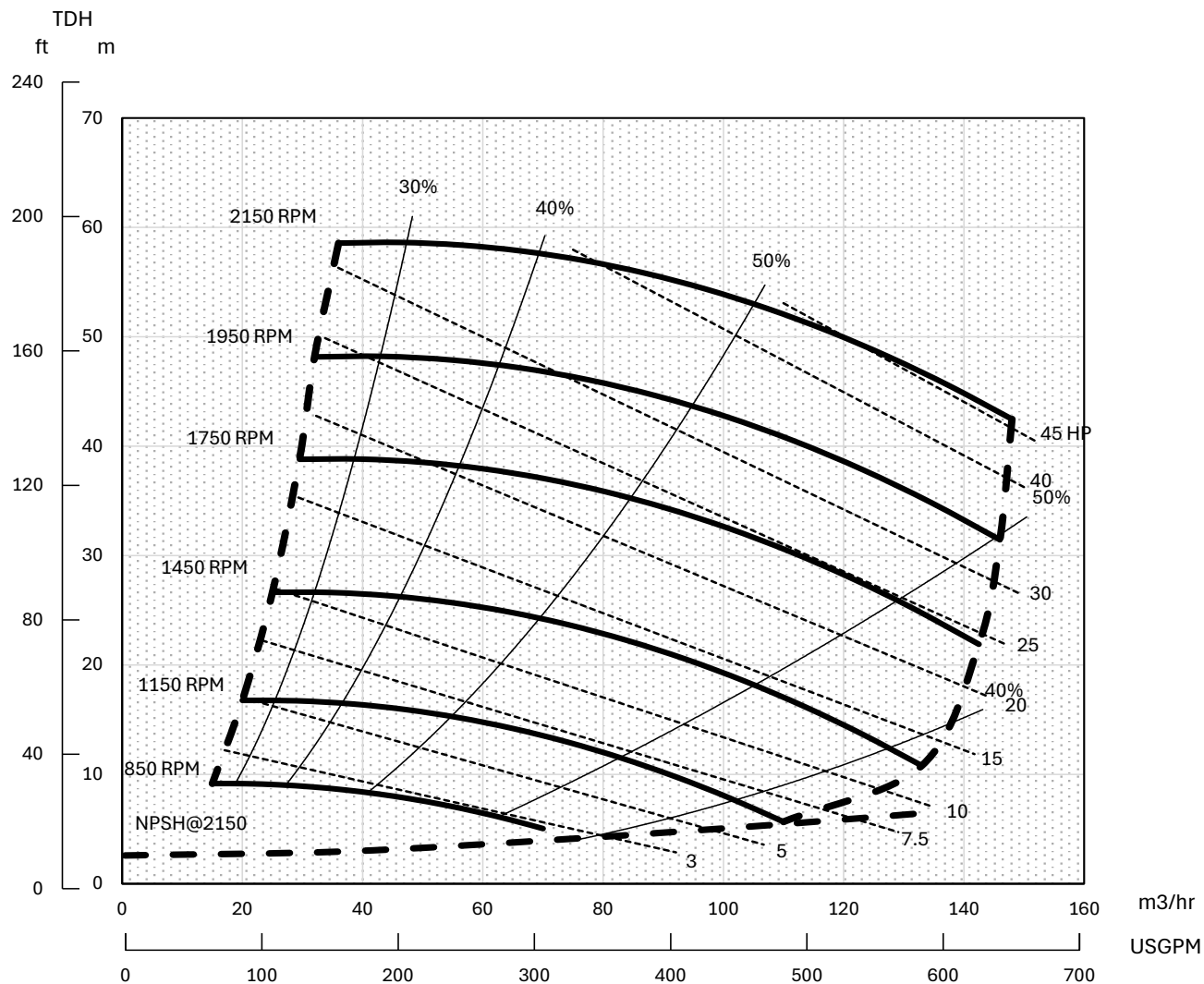
| RPM | 850 | 1150 | 1450 | 1750 | 1950 | 2150 |
|-----|-----|------|------|------|------|------|
| Ft  | 7   | 9    | 15   | 25   | 25   | 25   |
| m   | 2.3 | 2.9  | 4.5  | 7.6  | 7.6  | 7.6  |



Performance Curve

ESPU4

4inch Discharge



Repriming Lift

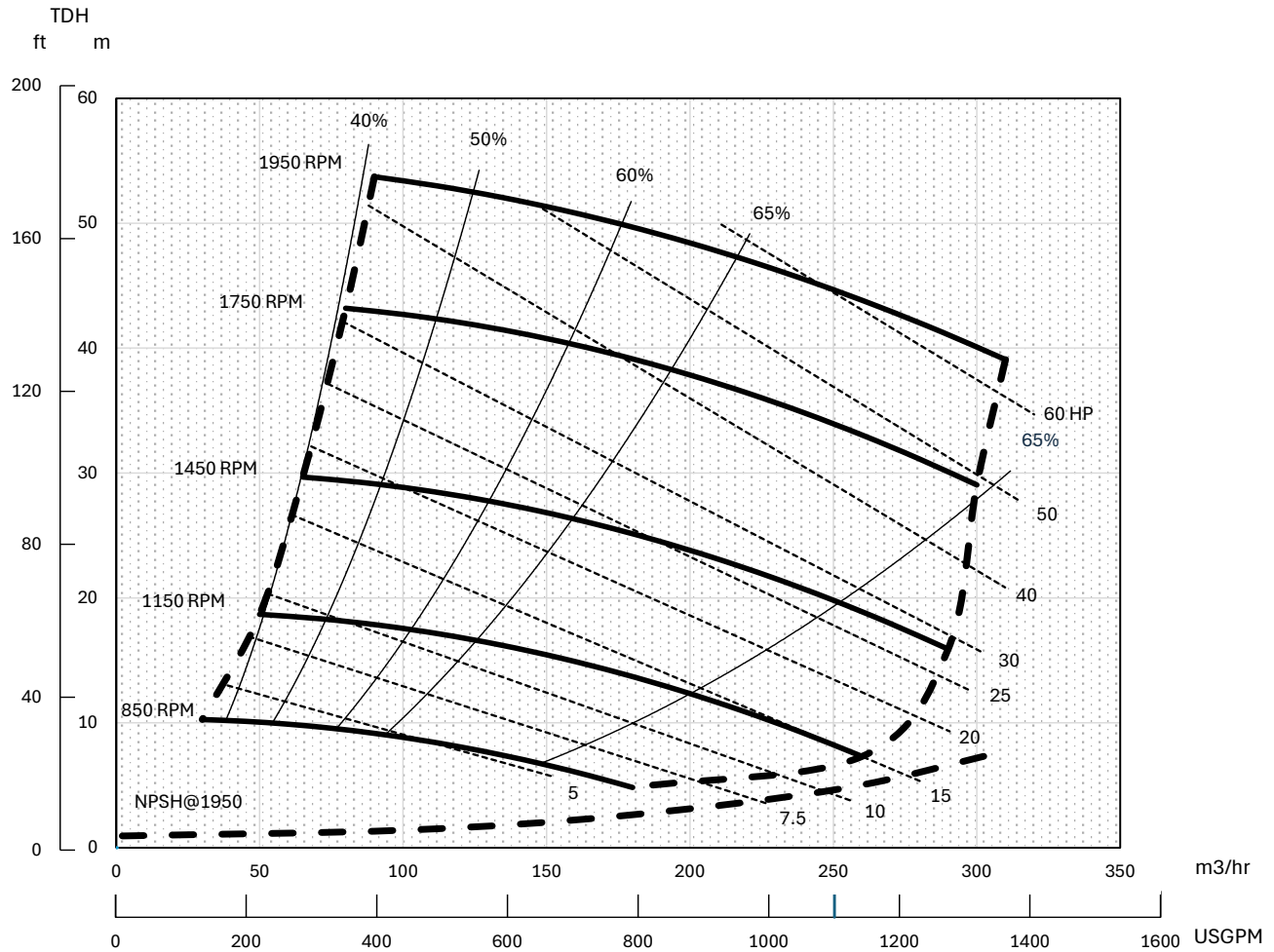
| RPM | 850 | 1150 | 1450 | 1750 | 1950 | 2150 |
|-----|-----|------|------|------|------|------|
| Ft  | 8   | 10   | 12   | 13   | 15   | 17   |
| m   | 2.4 | 3.0  | 3.6  | 3.9  | 4.5  | 5.2  |



Performance Curve

ESPU6

6inch Discharge



Repriming Lift

| RPM | 850 | 1150 | 1450 | 1750 | 1950 |
|-----|-----|------|------|------|------|
| Ft  | 8   | 10   | 10   | 15   | 15   |
| m   | 2.4 | 3.0  | 4.2  | 4.5  | 4.5  |