

Pioneering for You

**wilo**

*Wilo Philippines*

## **Wilo – MISO Pump**

End Suction Pump as per ISO 2858

**Our innovative solutions for commercial properties,  
fire fighting and sprinkler system.**





**Dr. Franka Schneider**  
Research Engineer Fluid Mechanics  
WILO SE

## “Perfectly coordinating performance and efficiency,

**That’s what I call Pioneering for You.”**

Improving efficiency is a key focus of our development work. Our target is to increase pump performance while simultaneously decreasing the energy input. Thus a pump system, e.g. for a replacement, can be dimensioned significantly lower and be still more efficient.



Member of  
**German Water  
Partnership**

**wilo**

# Expertise comes in all sizes

End Suction Pumps – **as per ISO 2858**



## Wilo – Miso Pumps

### Special Features

- All pumps are as per ISO 2858
- End suction top discharge
- Grease lubricated antifriction bearings.
- Back pull out design eases for maintenance of the pump without disturbing the motor and piping arrangement.
- Sealing : Packed gland and mechanical seal.
- Pressure and temperature gauge connections on casing.
- Supplied with flanges as per ANSI 16.1/16.5 standards.
- Reduced life-cycle costs through optimized efficiency level





### Application

- Chemical and Process
- Water supply
- HVAC
- Irrigation and sprinkler system
- Municipal water supply
- General Industry
- Fire Fighting
- Jockey pump

### Standard Materials

- Casing: Cast Iron, Ni-CI
- Impeller: Cast Iron, bronze
- Shaft: Stainless Steel
- Shaft Sleeve: Stainless Steel EN8 (SS 316, SS410)
- Shaft Sleeve: Stainless Steel (SS 410)
- Casing wear ring: Cast Iron, Bronze
- Casing wear ring: Stainless Steel, Ni-CI

### Accessories

- Companion flange
- Foundation bolts
- Shims

### Description/Design

## End suction pump as per ISO 2858

### Type key

Example **MISO 32-125**

**MISO** Standard Pump with Axial Suction  
**32** Discharge  
**125** Impeller nominal diameter

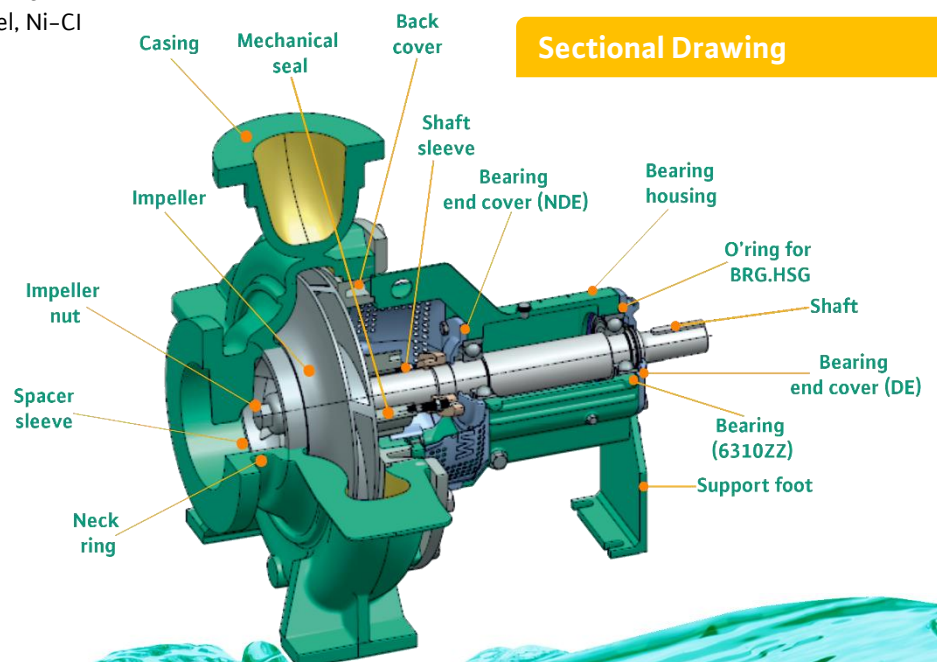
### Technical Data

- End suction pumps : 33 models
- Series: MISO
- Nominal sizes: DN 32mm up DN 200 mm
- Flow range: up to 3300 USGPM
- Head range: up to 560 ft
- Operating pressure: 16 bar
- Operating Temp.: 0°C to 105 °C for gland packed
- Mounting: Horizontal, vertical (optional)
- Lubrication: Grease, oil
- Direction of rotation: Clockwise

### Scope of delivery

- Pump
- As a complete pump set including electrical motor base plate, coupling and coupling guard.
- Either without motor **or**
- As bare shaft pump without base plate

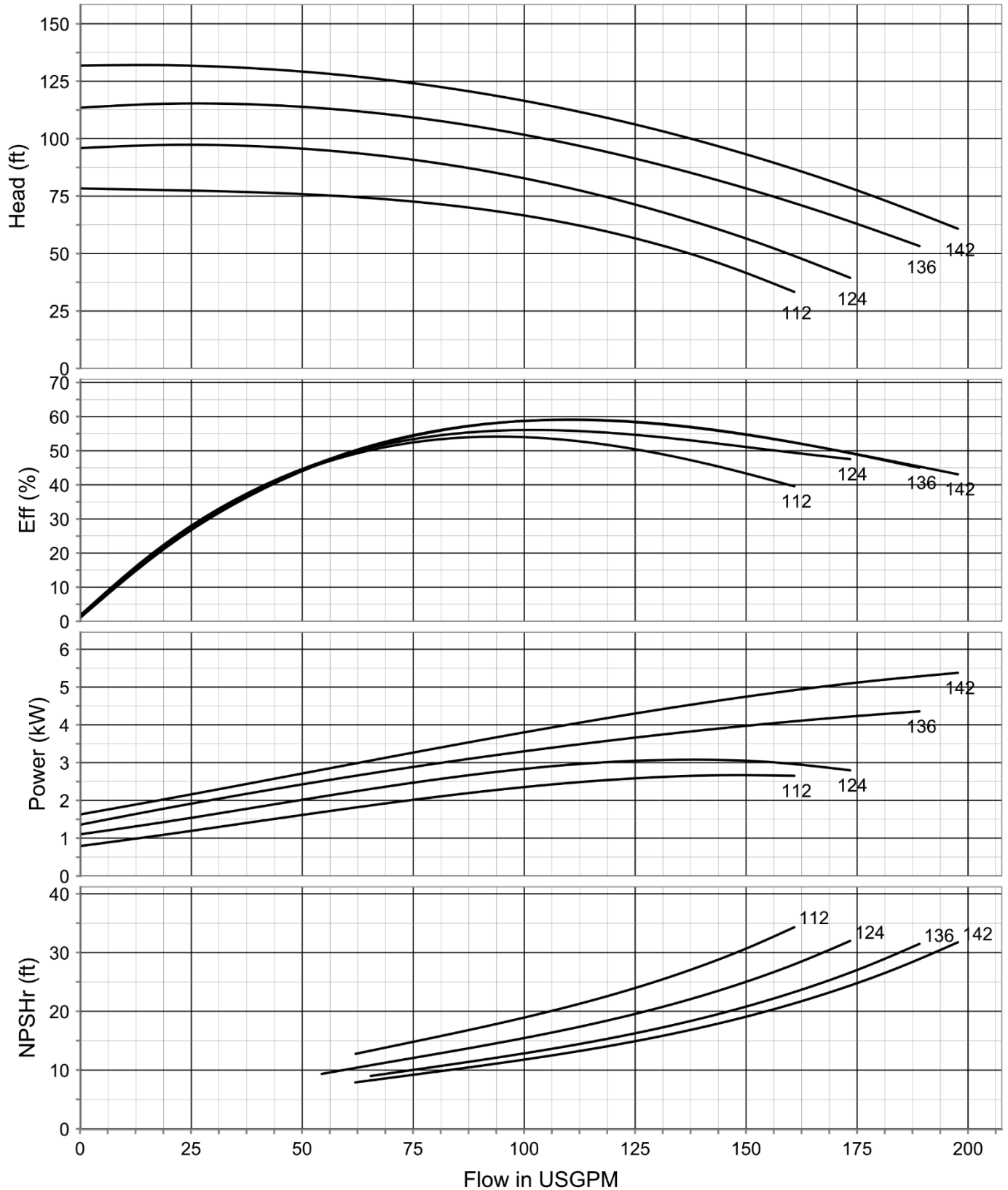
### Sectional Drawing



MISO 32 – 125 (2P)

Performance curve

Speed : 3450 RPM , Stage : 1

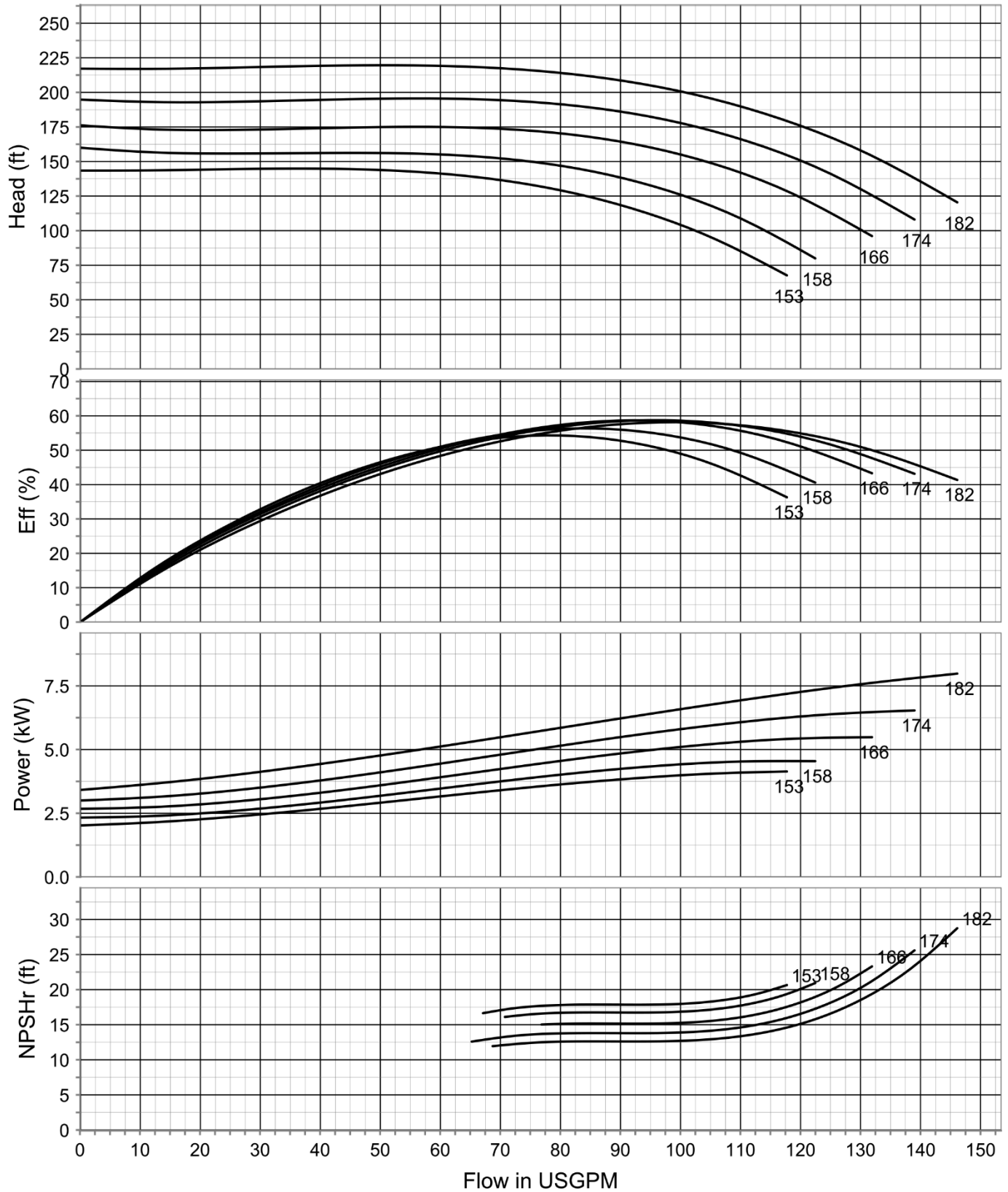


Performance Curve 2P

MISO 32 – 160 (2P)

Performance curve

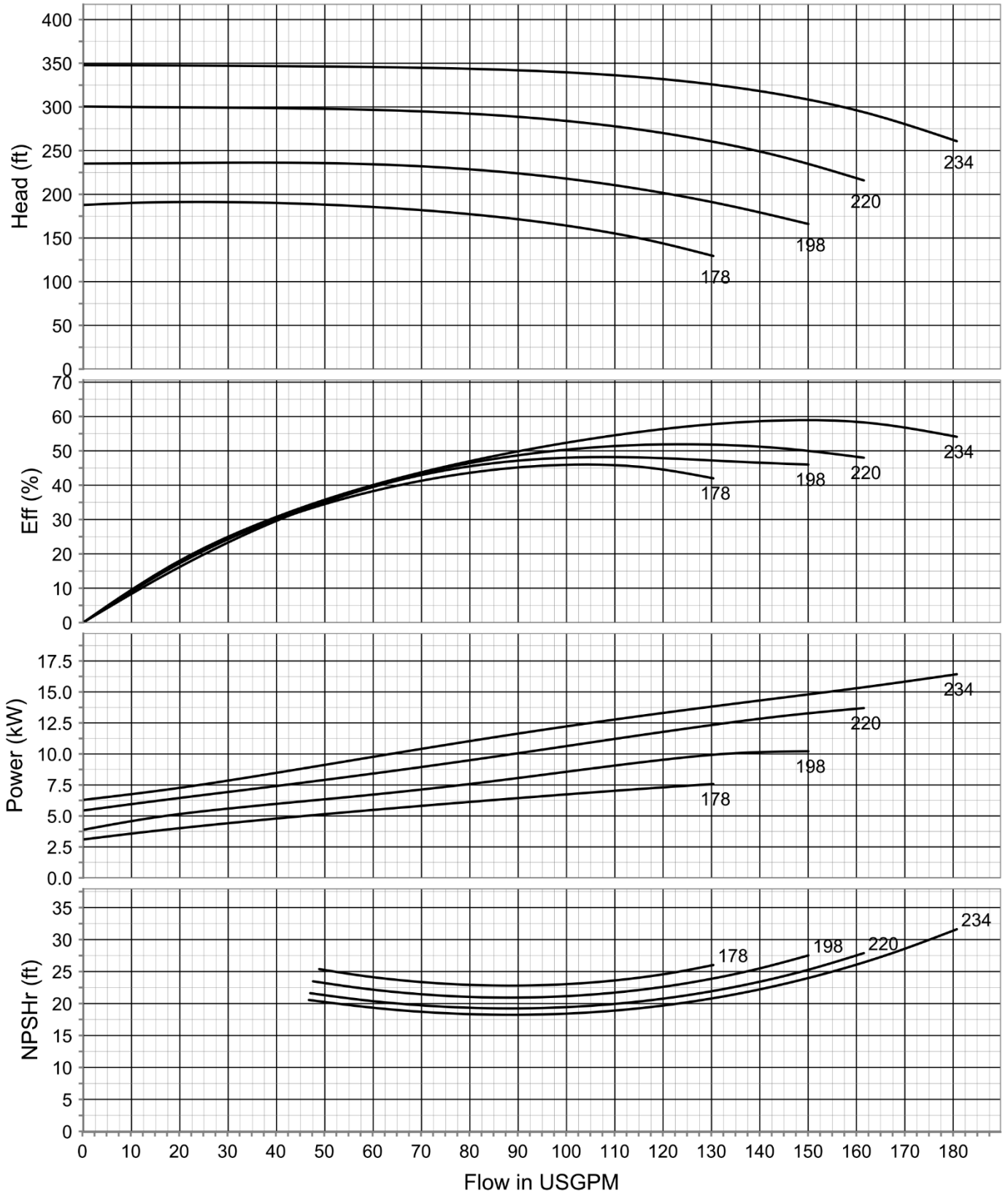
Speed : 3450 RPM , Stage : 1



MISO 32 – 200 (2P)

Performance curve

Speed : 3450 RPM , Stage : 1

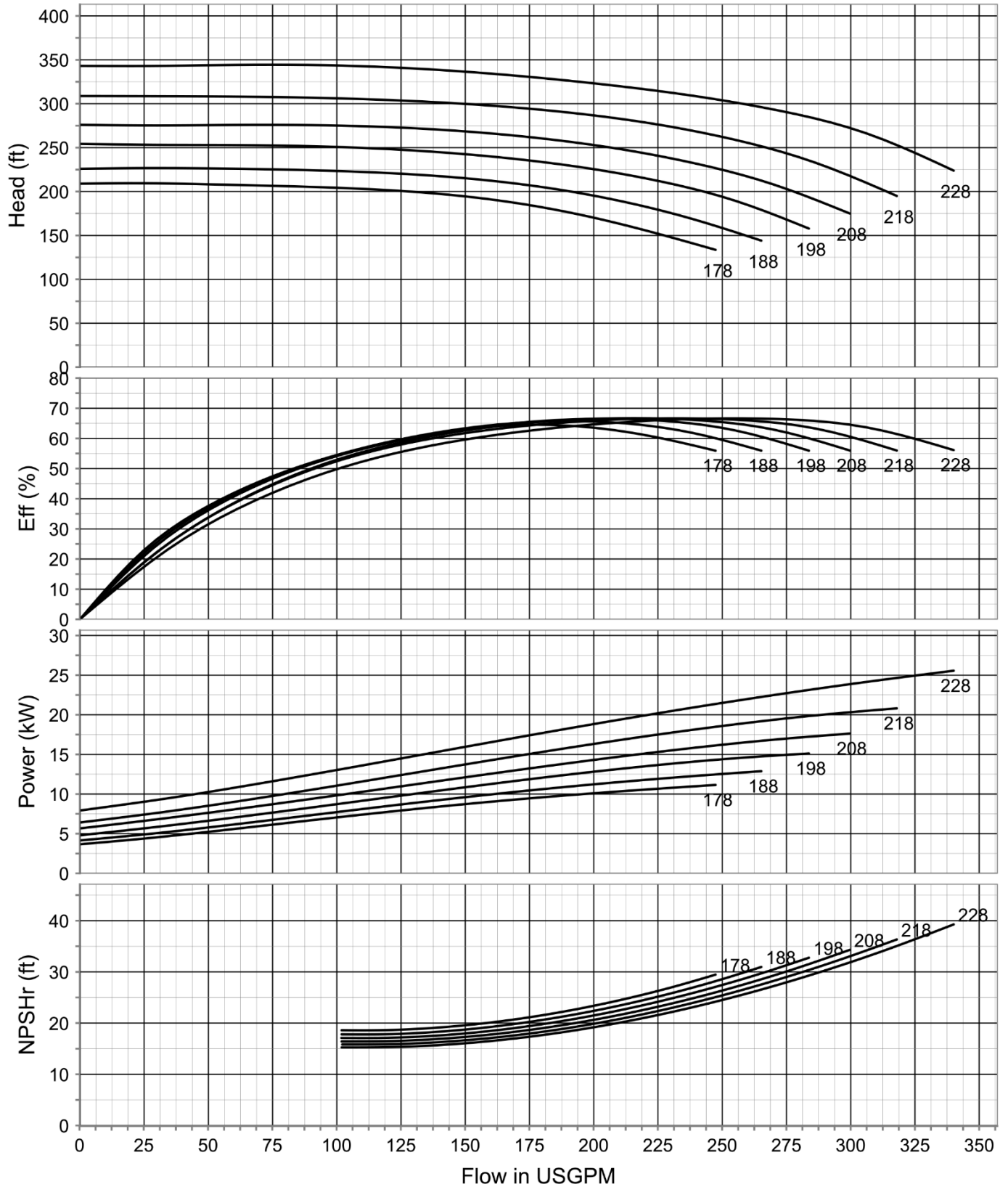


Performance Curve 2P

MISO 40 – 200 (2P)

Performance curve

Speed : 3450 RPM , Stage : 1

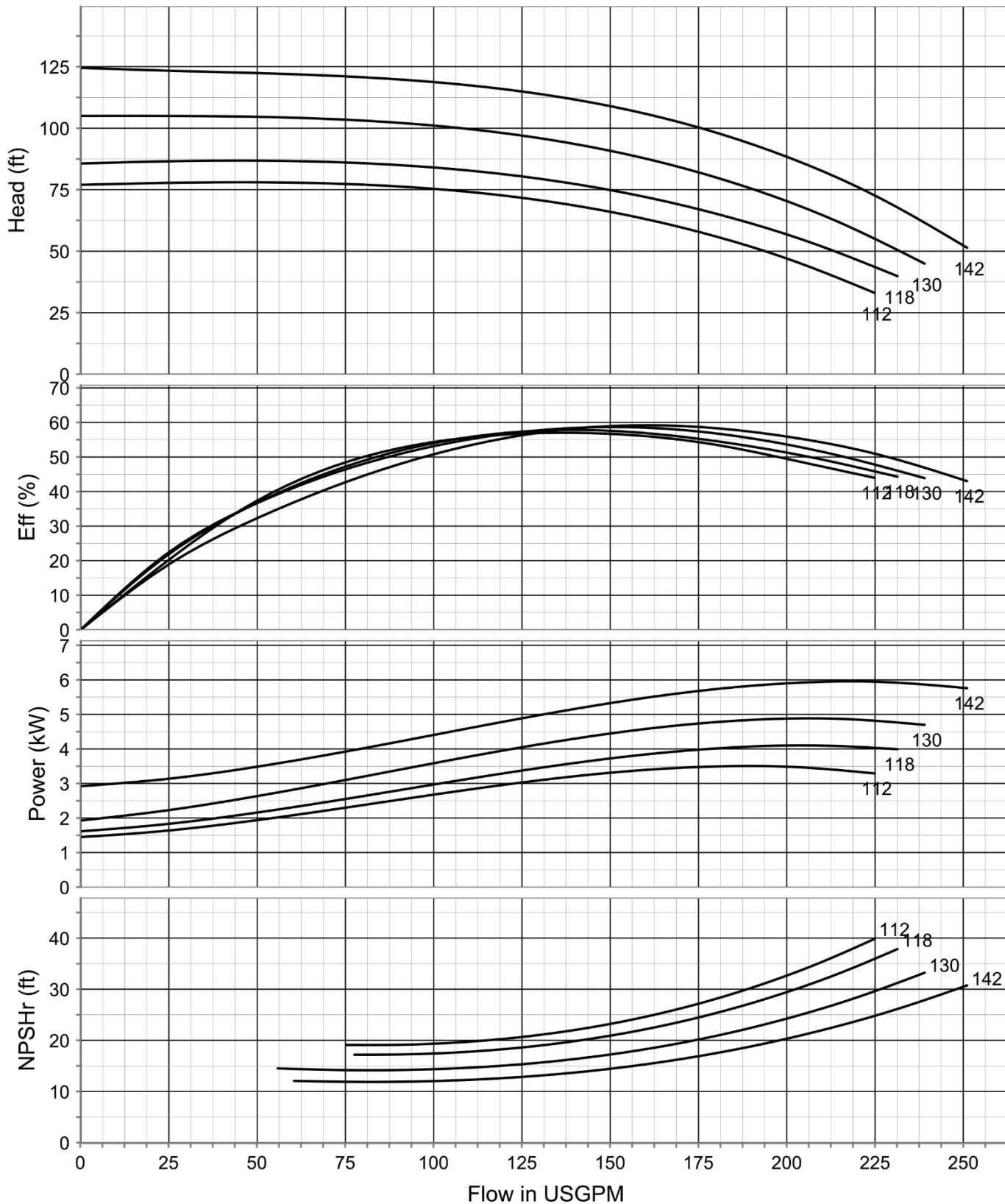




MISO 50 – 125 (2P)

Performance curve

Speed : 3450 RPM , Stage : 1

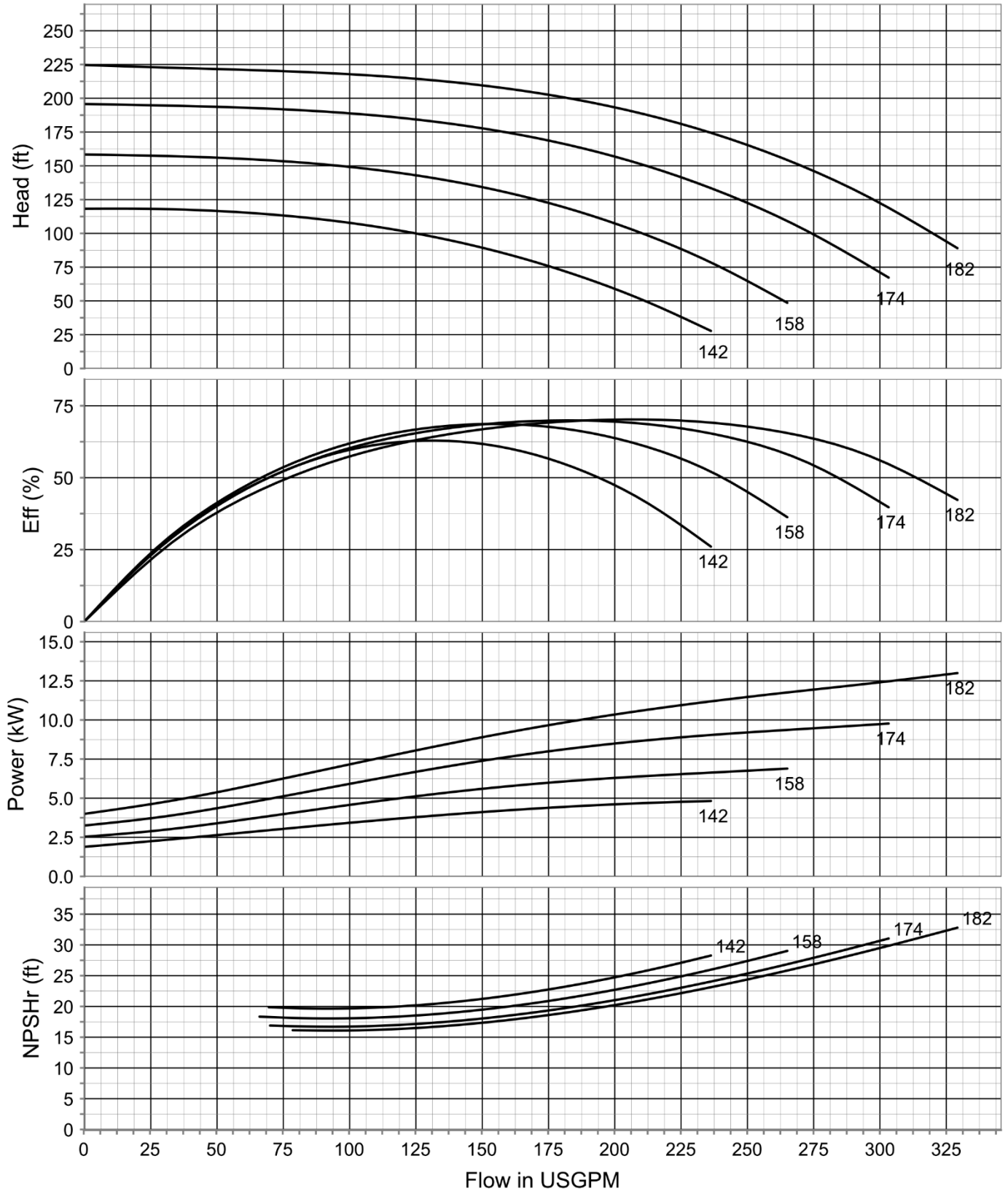


Performance Curve 2P

MISO 50 – 160 (2P)

Performance curve

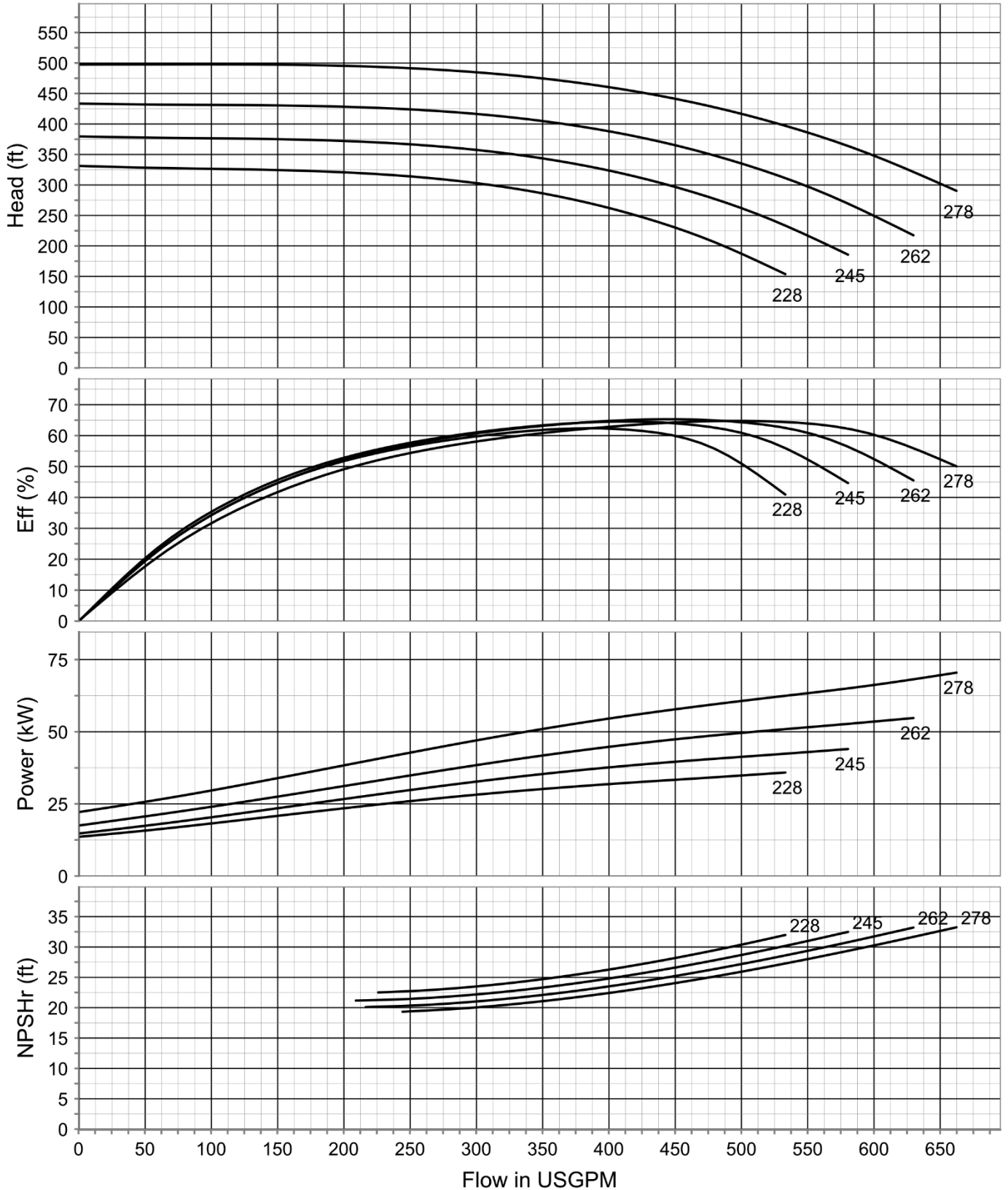
Speed : 3450 RPM , Stage : 1



MISO 50 – 250 (2P)

Performance curve

Speed : 3450 RPM , Stage : 1

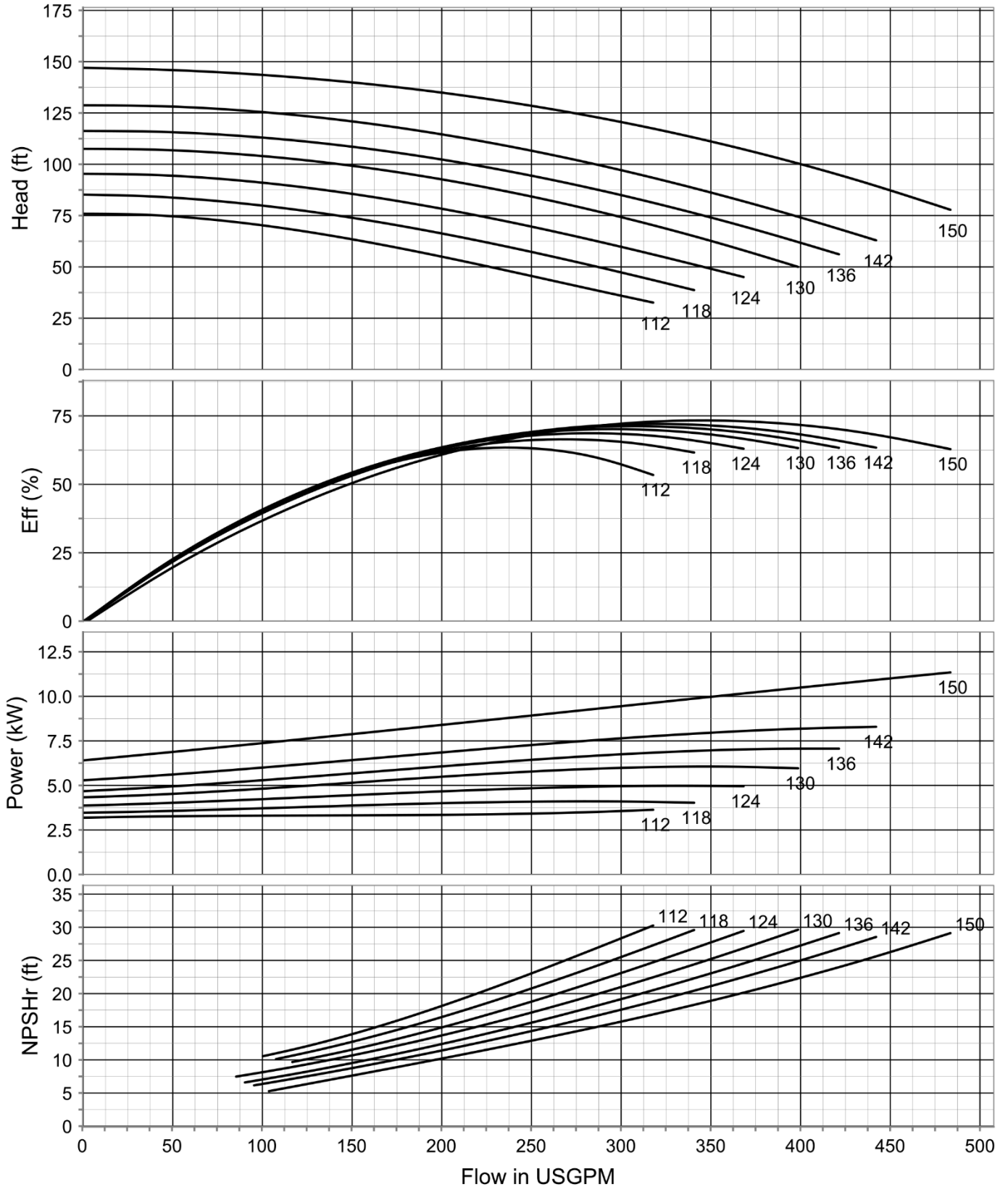


Performance Curve 2P

MISO 65 – 125 (2P)

Performance curve

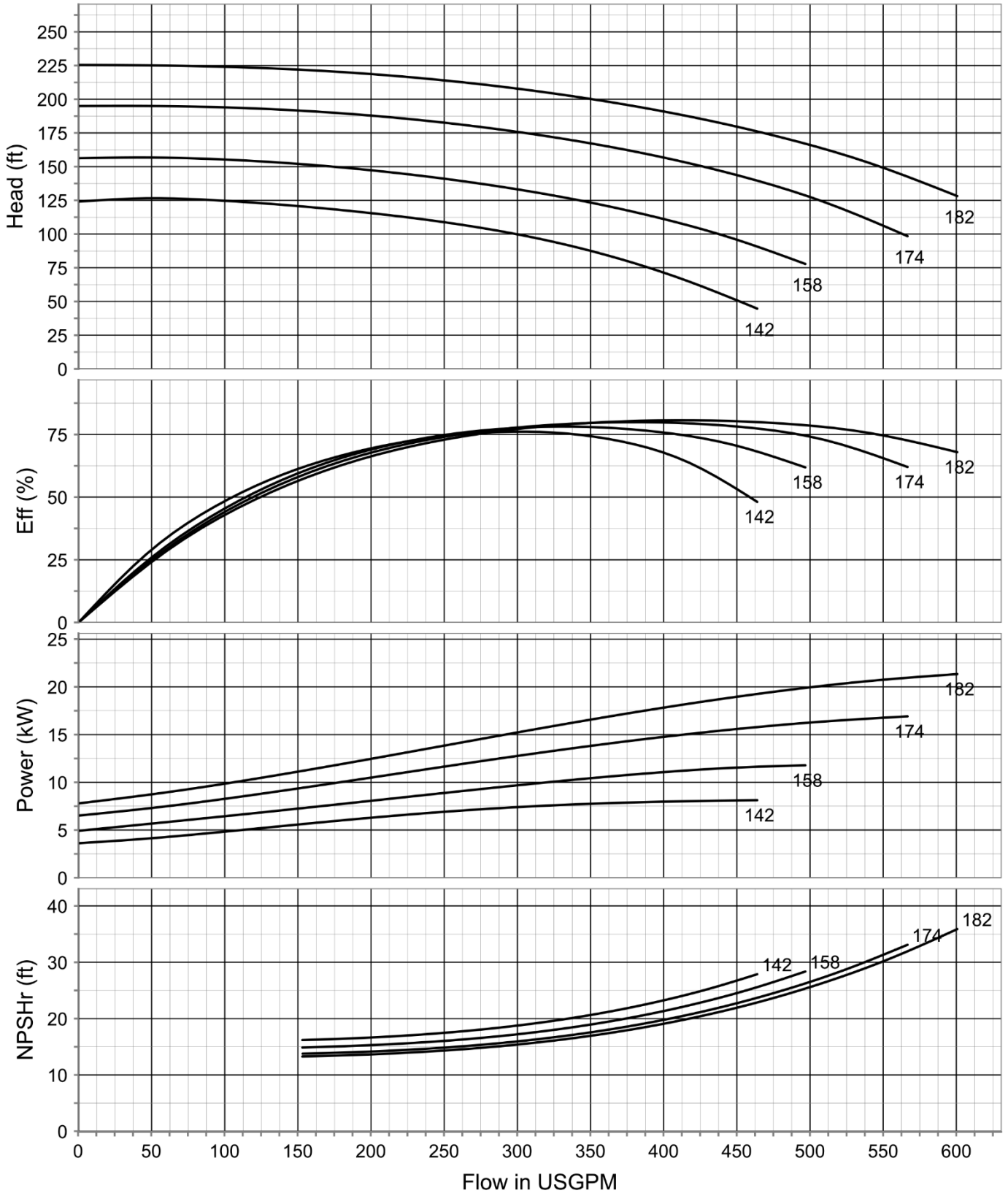
Speed : 3450 RPM , Stage : 1



MISO 65 – 160 (2P)

Performance curve

Speed : 3450 RPM , Stage : 1

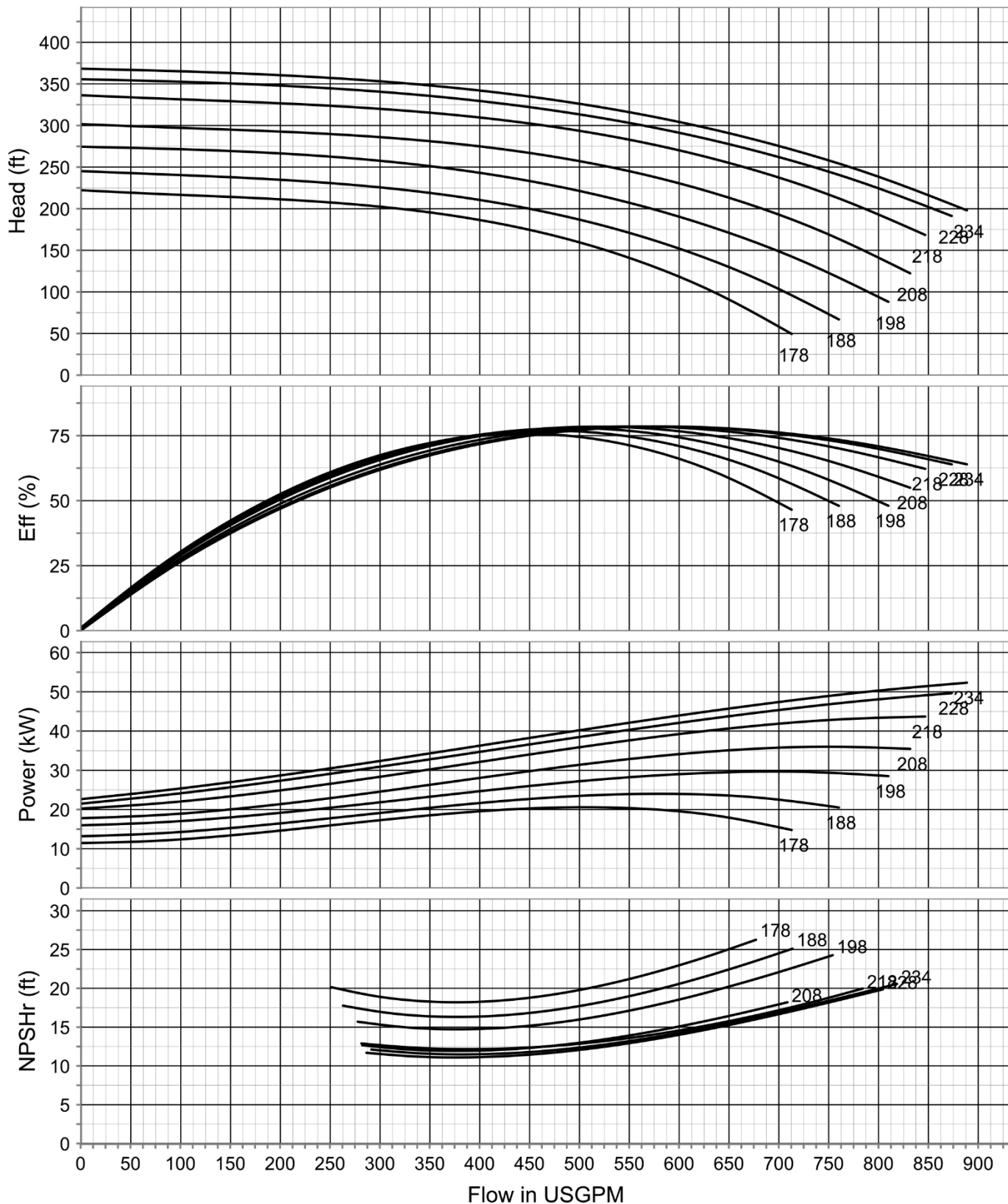


Performance Curve 2P

MISO 65 – 200 (2P)

Performance curve

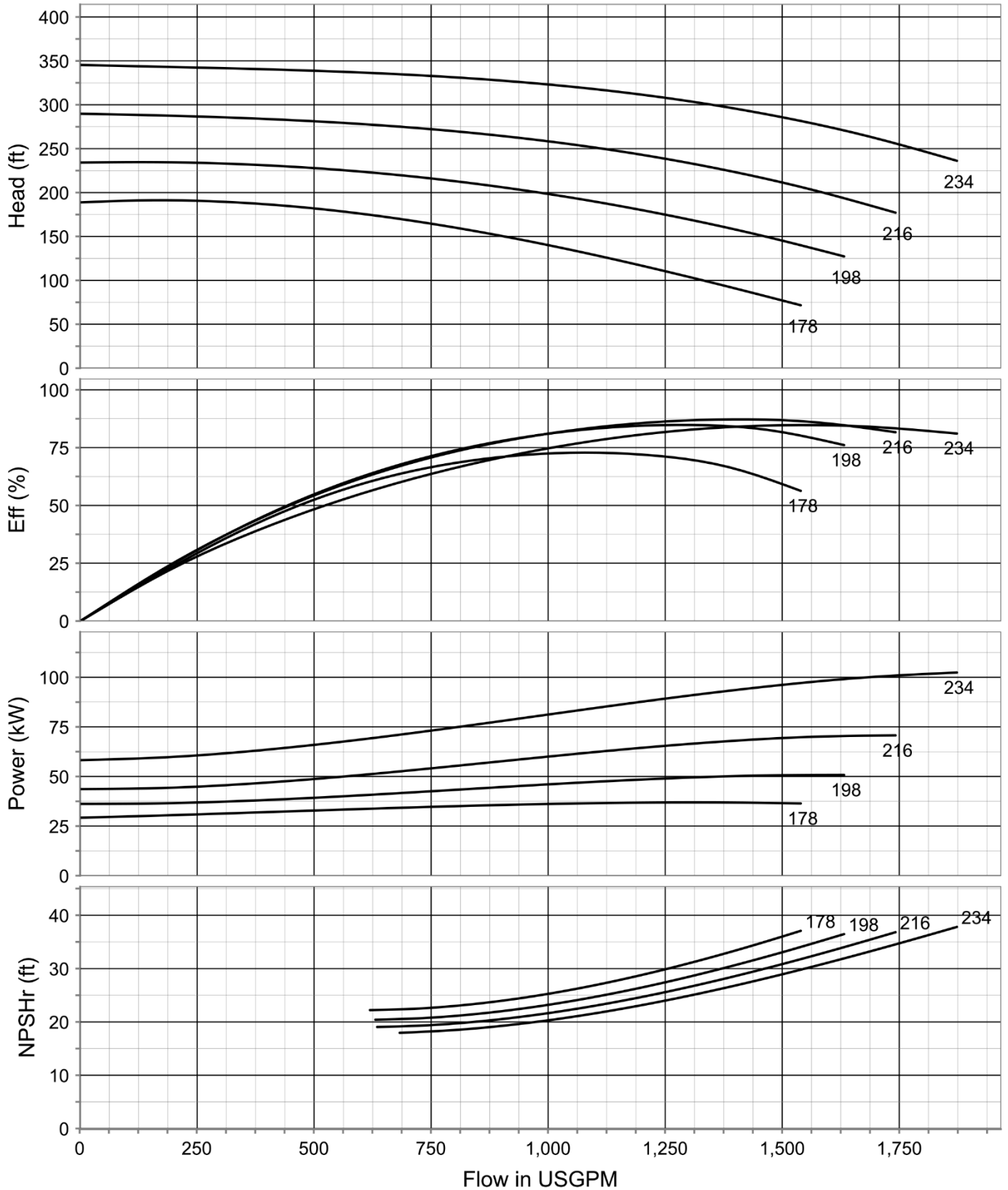
Speed : 3450 RPM , Stage : 1



MISO 100 – 200 (2P)

Performance curve

Speed : 3450 RPM , Stage : 1

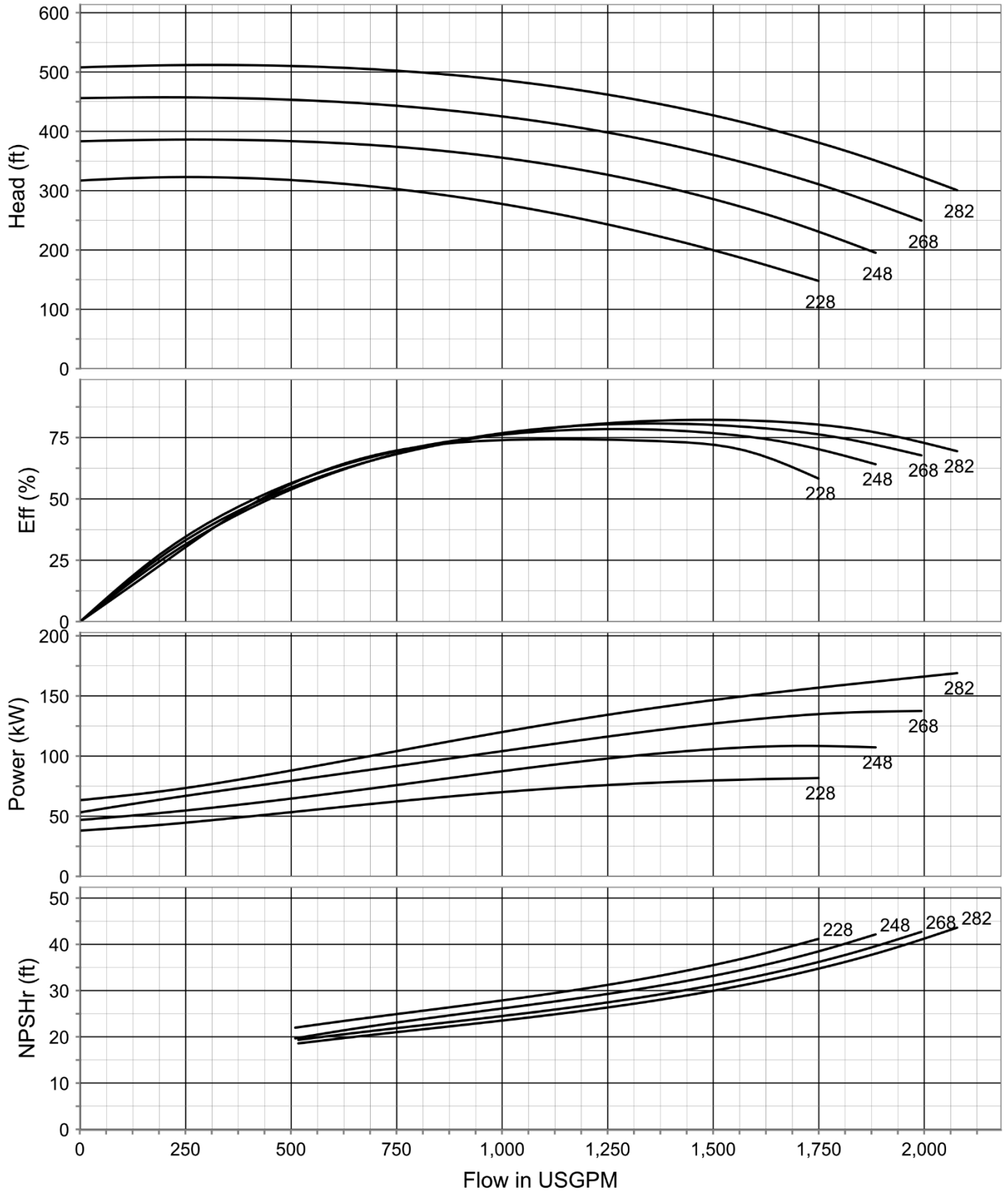


Performance Curve 2P

MISO 100 – 250 (2P)

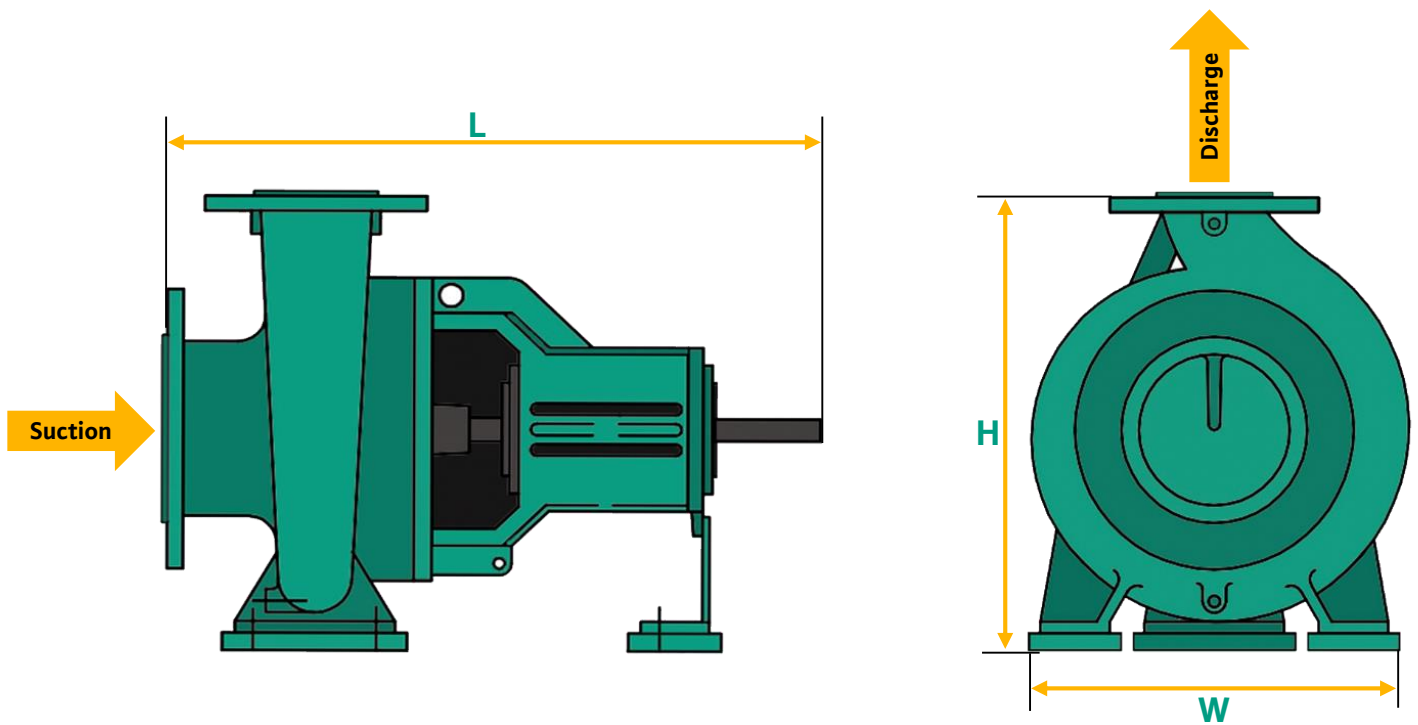
Performance curve

Speed : 3450 RPM , Stage : 1





## Dimension Data – Bare Pump (2P)

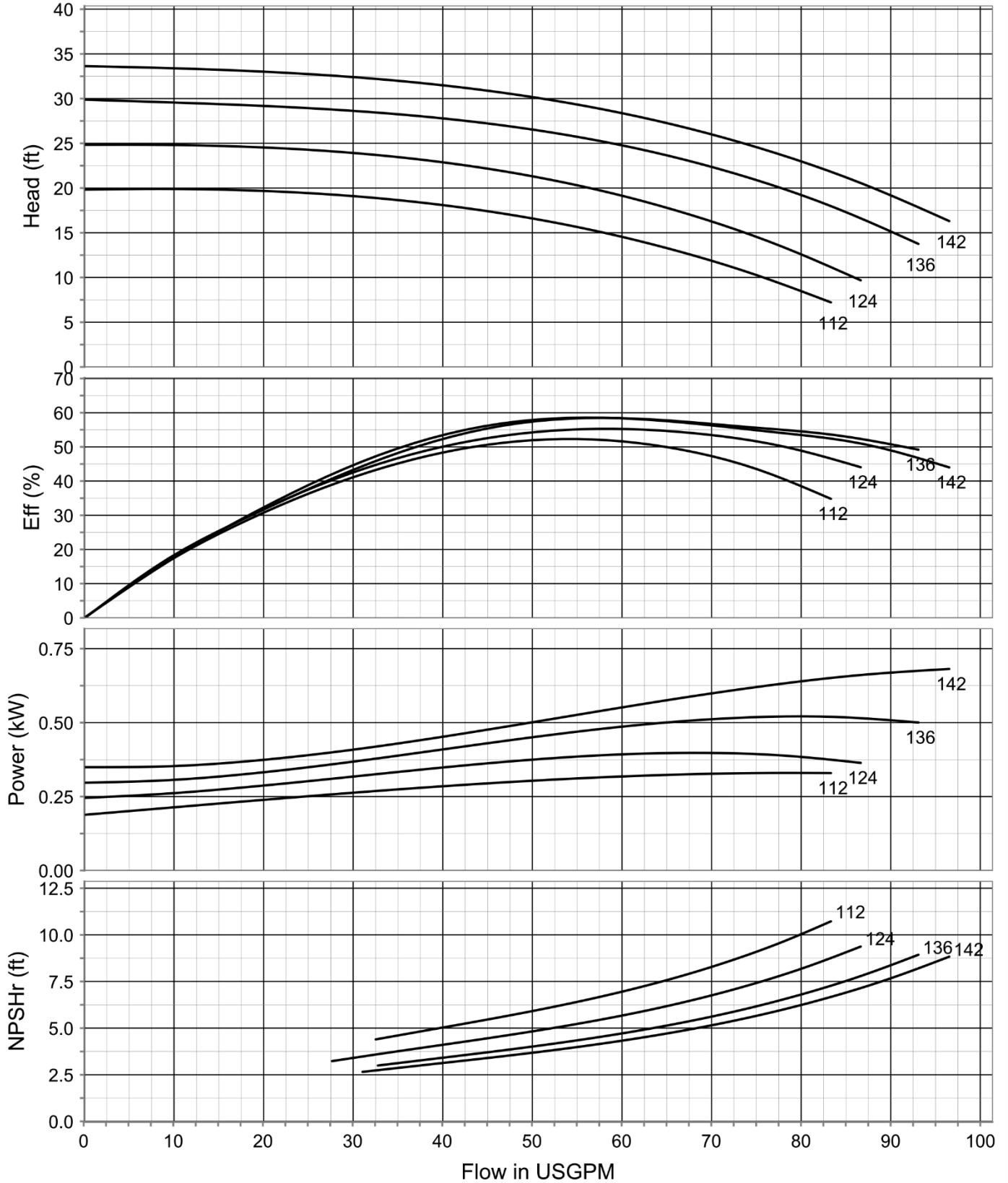


| Model        | Pump Size    |                |                        | Length | Width | Height | Mass |
|--------------|--------------|----------------|------------------------|--------|-------|--------|------|
|              | Suction (mm) | Discharge (mm) | Impeller Diameter (mm) |        |       |        |      |
| MISO 25-125  | 40           | 25             | 125                    | 465    | 180   | 252    | 32   |
| MISO 25-160  | 40           | 25             | 160                    | 465    | 230   | 292    | 38   |
| MISO 32-125  | 50           | 32             | 125                    | 465    | 180   | 252    | 31   |
| MISO 32-160  | 50           | 32             | 160                    | 465    | 230   | 292    | 38   |
| MISO 32-200  | 50           | 32             | 200                    | 465    | 230   | 340    | 45   |
| MISO 40-200  | 65           | 40             | 200                    | 485    | 252   | 340    | 48   |
| MISO 40-315  | 65           | 40             | 315                    | 625    | 332   | 475    | 95   |
| MISO 50-125  | 65           | 50             | 125                    | 465    | 180   | 252    | 36   |
| MISO 50-160  | 65           | 50             | 160                    | 465    | 230   | 292    | 42   |
| MISO 50-200  | 80           | 50             | 200                    | 485    | 252   | 360    | 57   |
| MISO 50-250  | 80           | 50             | 250                    | 625    | 290   | 405    | 84   |
| MISO 50-315  | 80           | 50             | 315                    | 625    | 332   | 505    | 103  |
| MISO 65-125  | 80           | 65             | 125                    | 485    | 230   | 292    | 40   |
| MISO 65-160  | 80           | 65             | 160                    | 485    | 252   | 340    | 47   |
| MISO 65-200  | 100          | 65             | 200                    | 600    | 290   | 405    | 79   |
| MISO 65-250  | 100          | 65             | 250                    | 625    | 332   | 450    | 91   |
| MISO 65-315  | 100          | 65             | 315                    | 655    | 368   | 505    | 110  |
| MISO 65-315H | 100          | 65             | 315                    | 655    | 368   | 505    | 110  |

MISO 32 – 125 (4P)

Performance curve

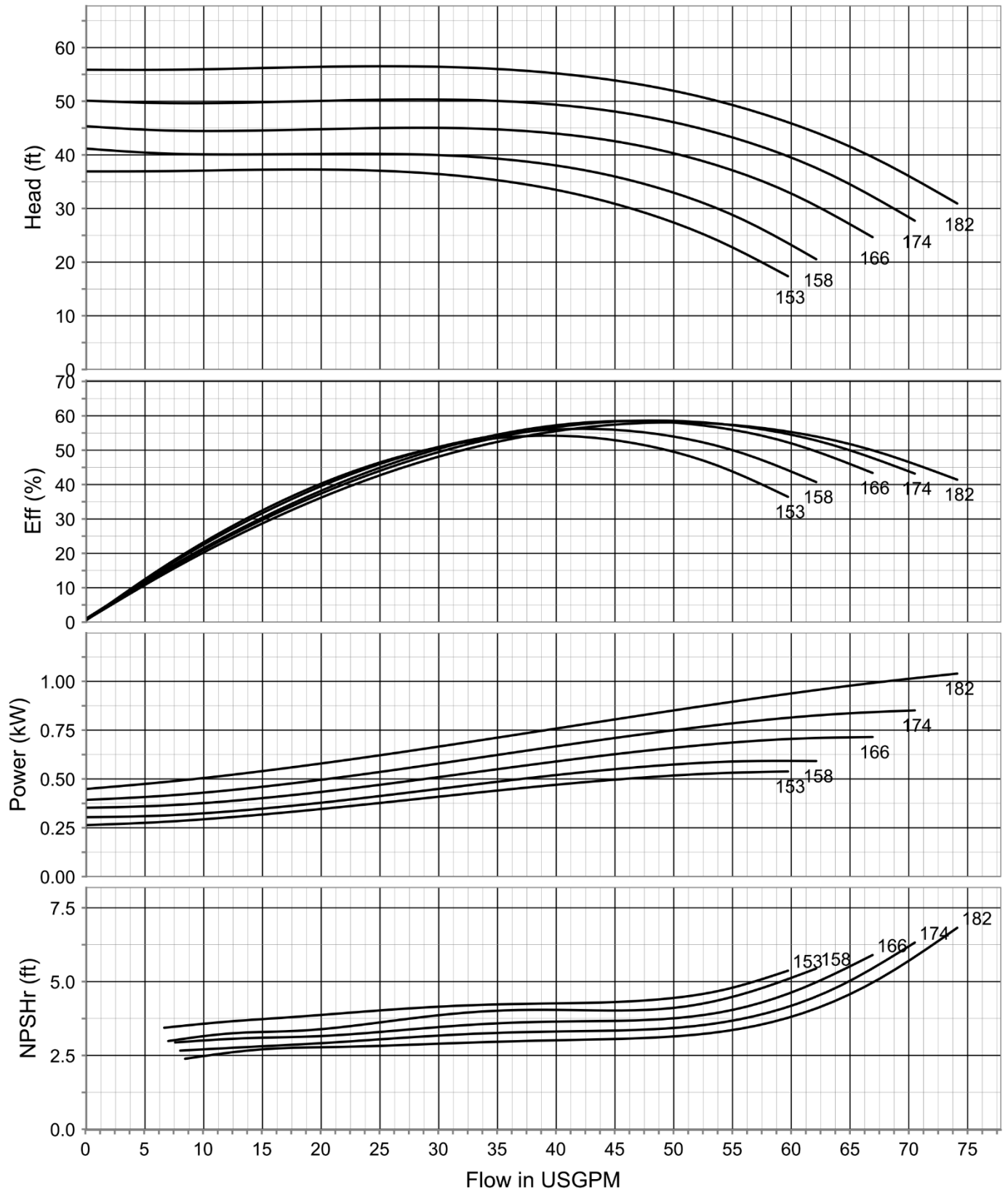
Speed : 1750 RPM , Stage : 1



MISO 32 – 160 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

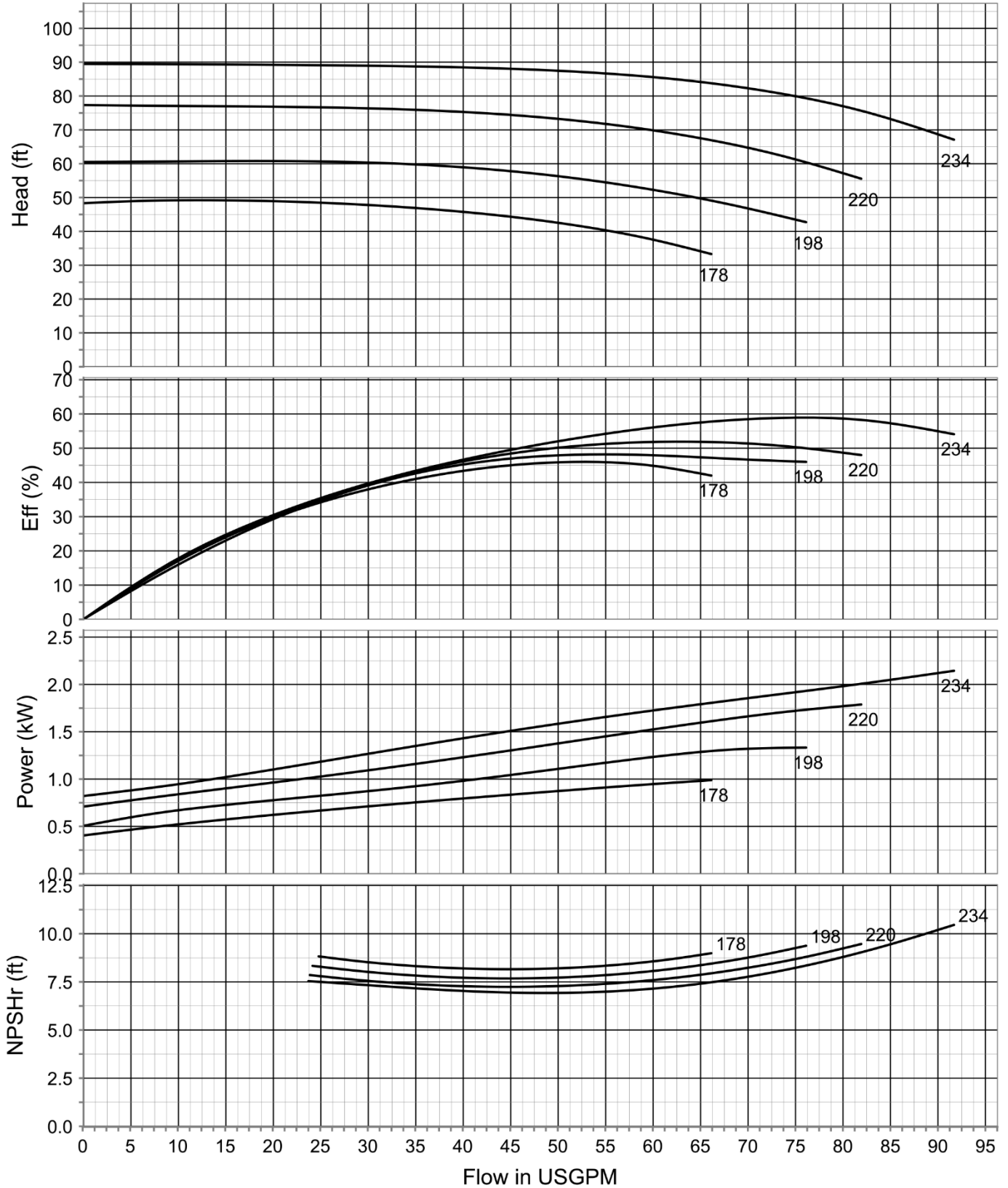


Performance Curve 4P

MISO 32 – 200 (4P)

Performance curve

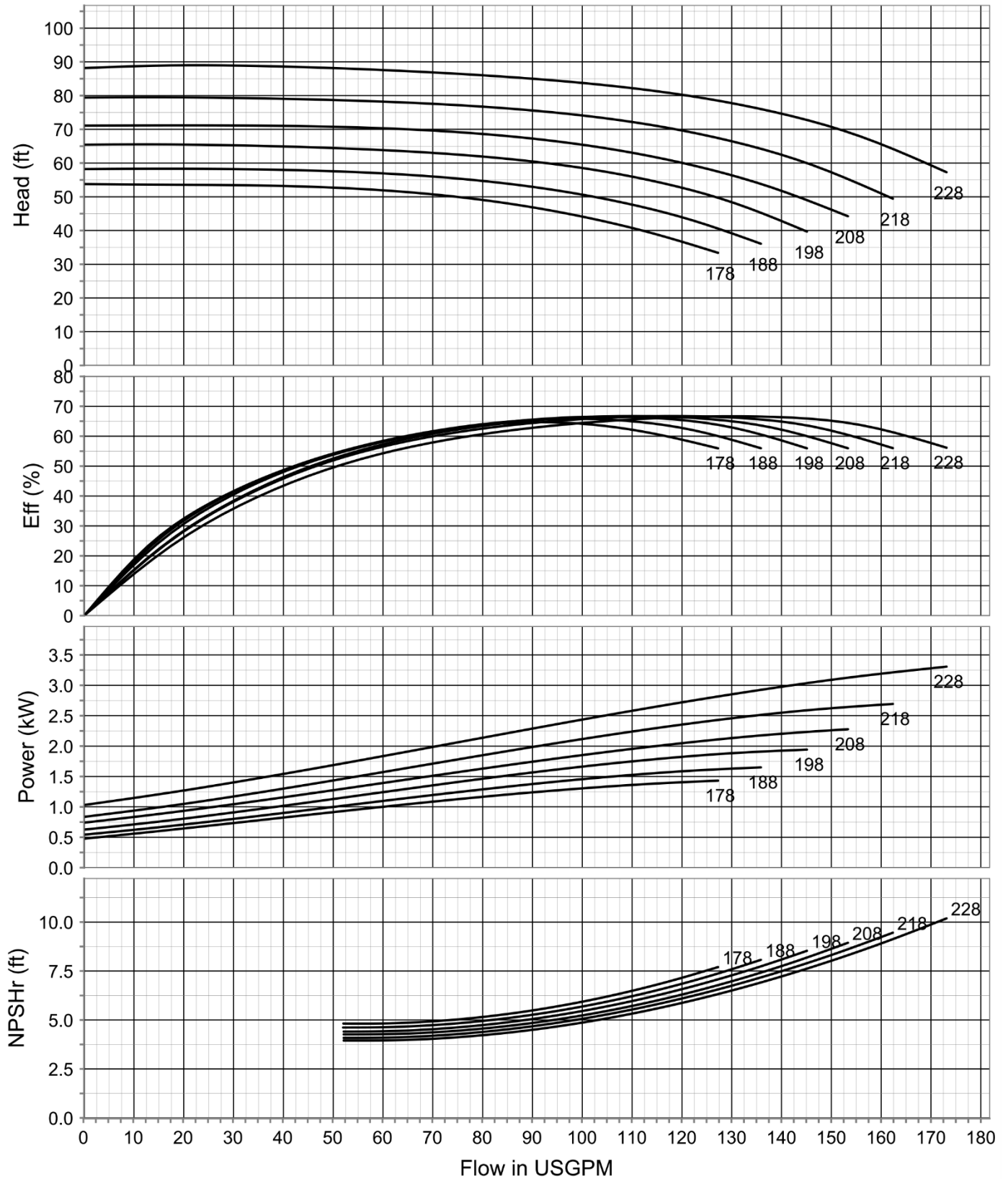
Speed : 1750 RPM , Stage : 1



MISO 40 – 200 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

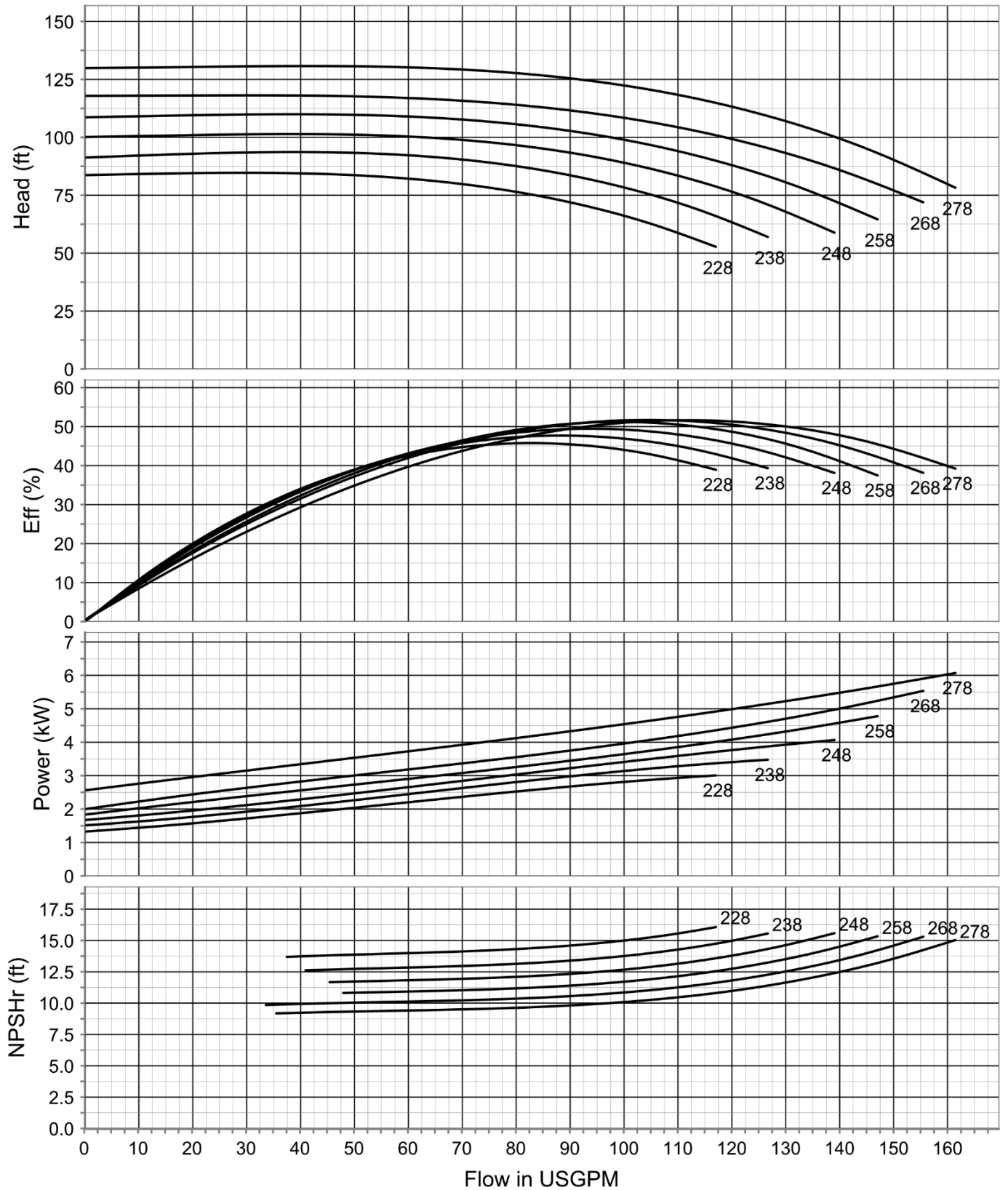


Performance Curve 4P

MISO 40 – 250 (4P)

Performance curve

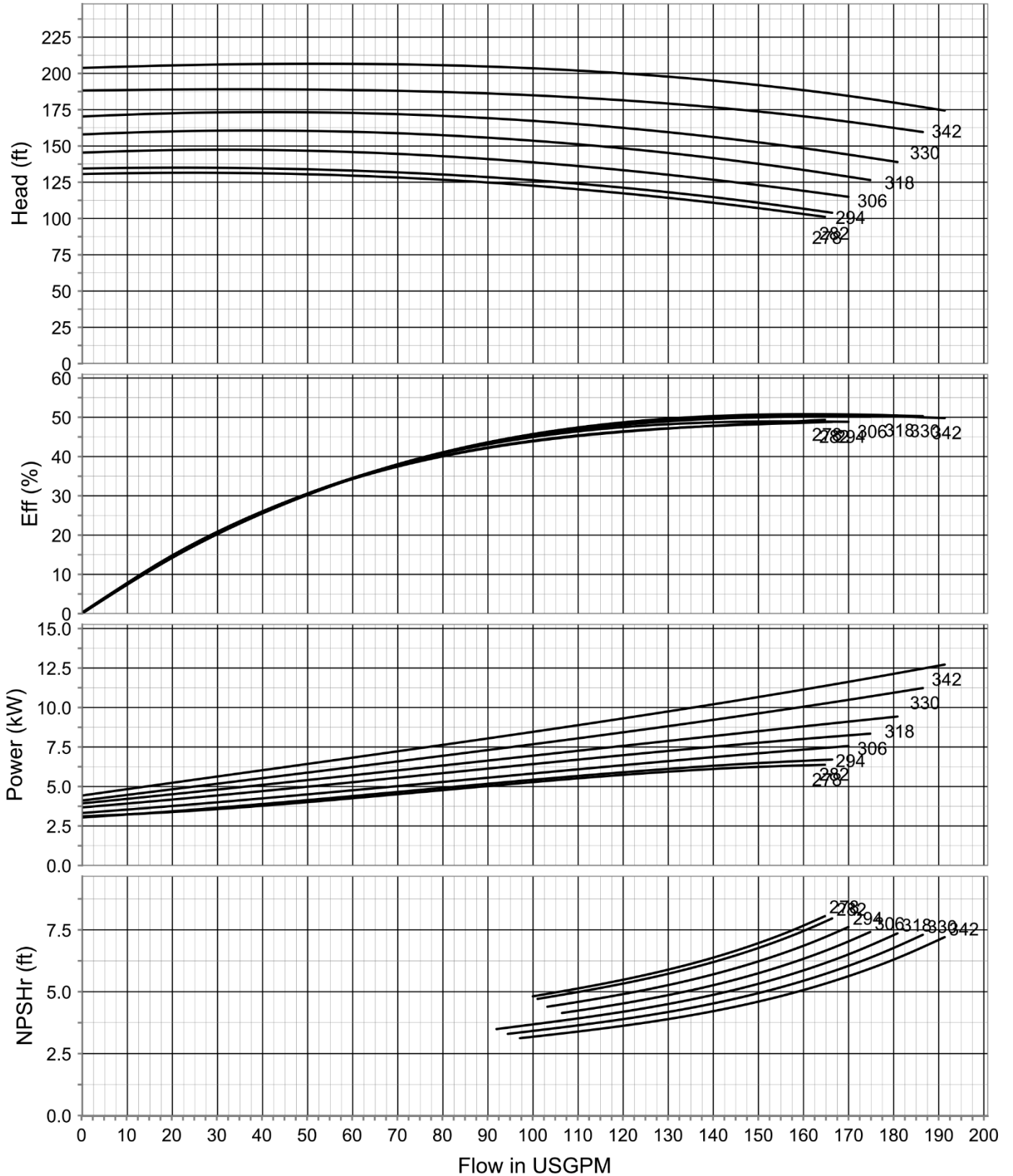
Speed : 1750 RPM , Stage : 1



MISO 40 – 315 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

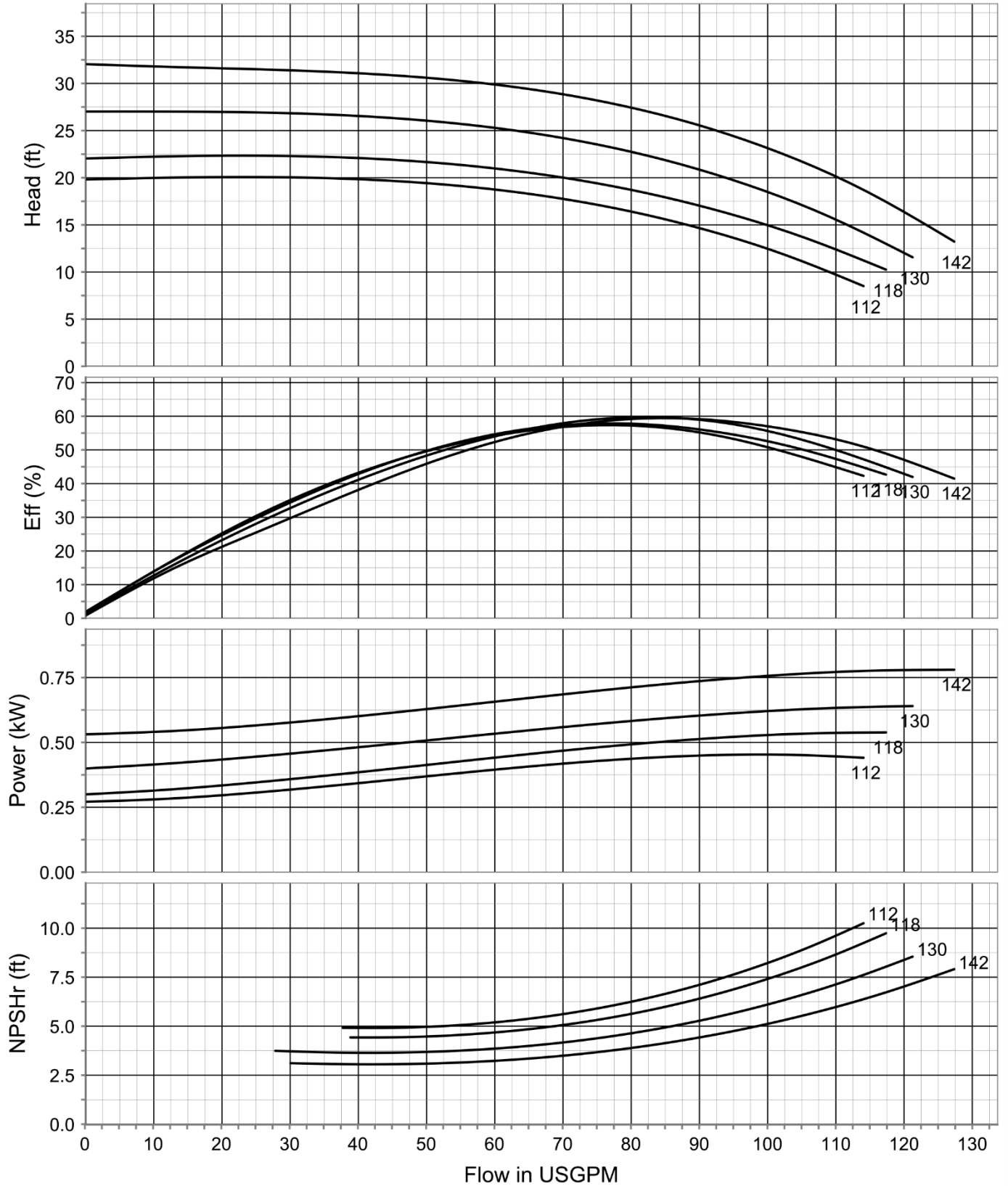


Performance Curve 4P

MISO 50 – 125 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

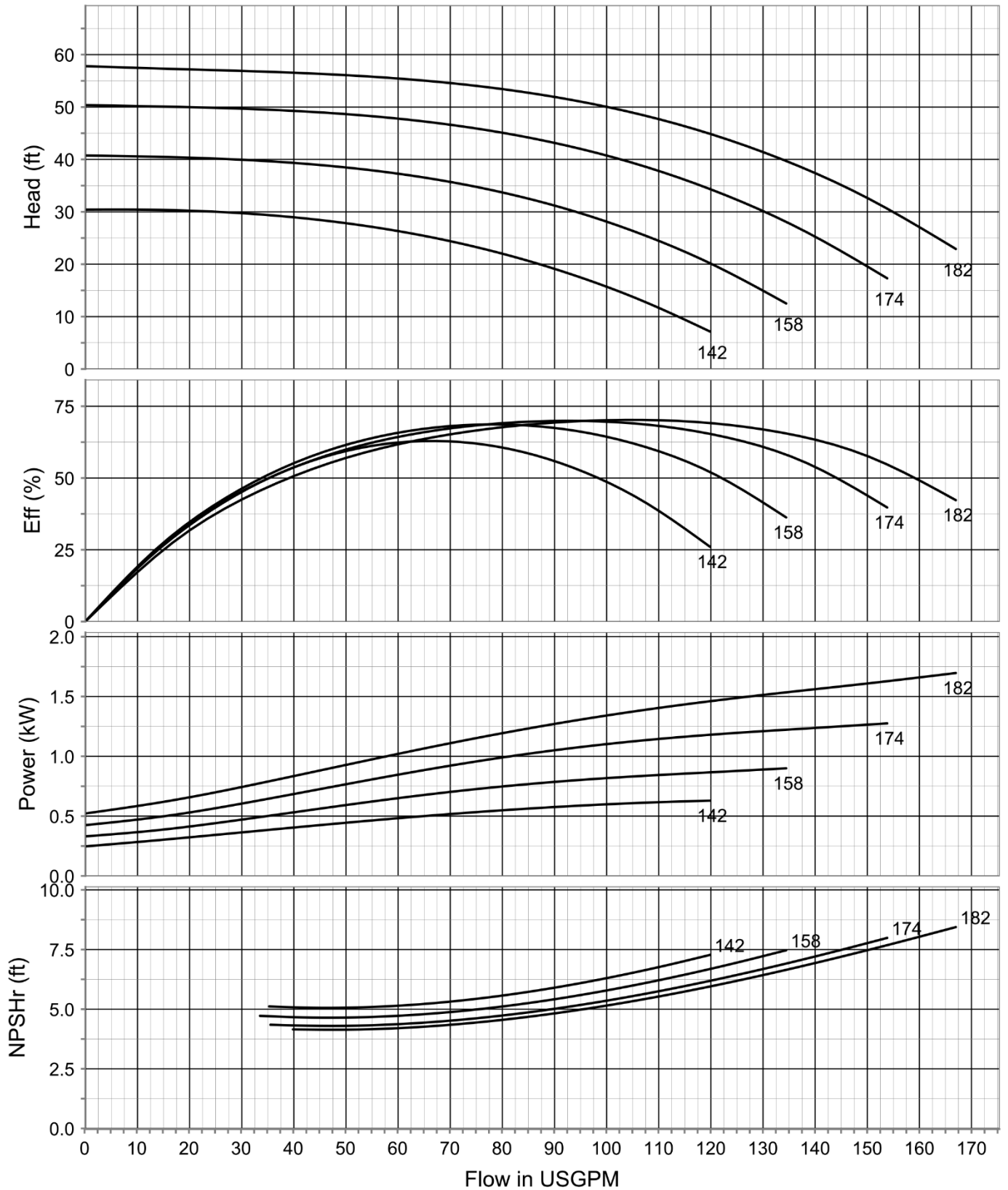




# MISO 50 – 160 (4P)

## Performance curve

Speed : 1750 RPM , Stage : 1

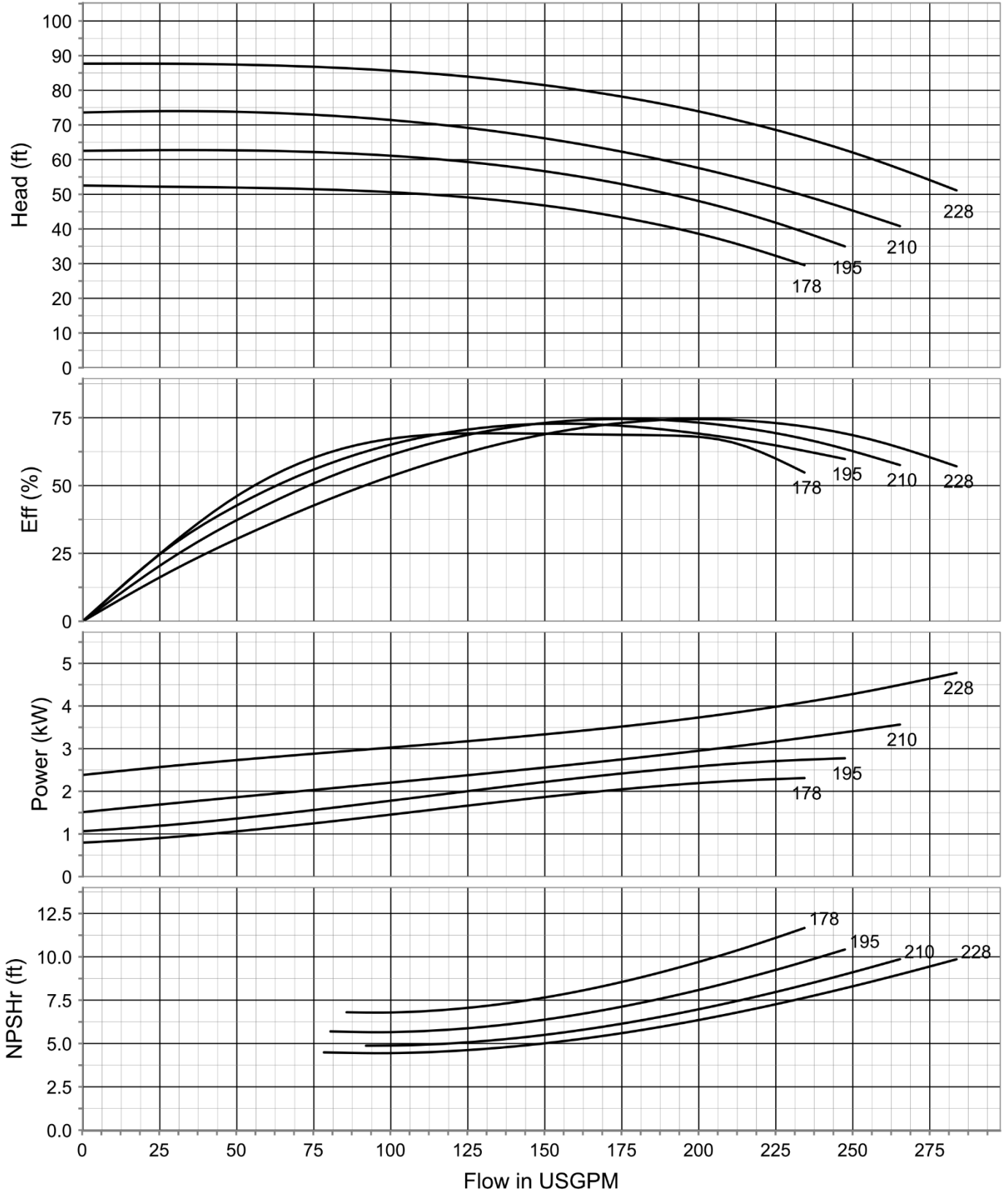


Performance Curve 4P

MISO 50 – 200 (4P)

Performance curve

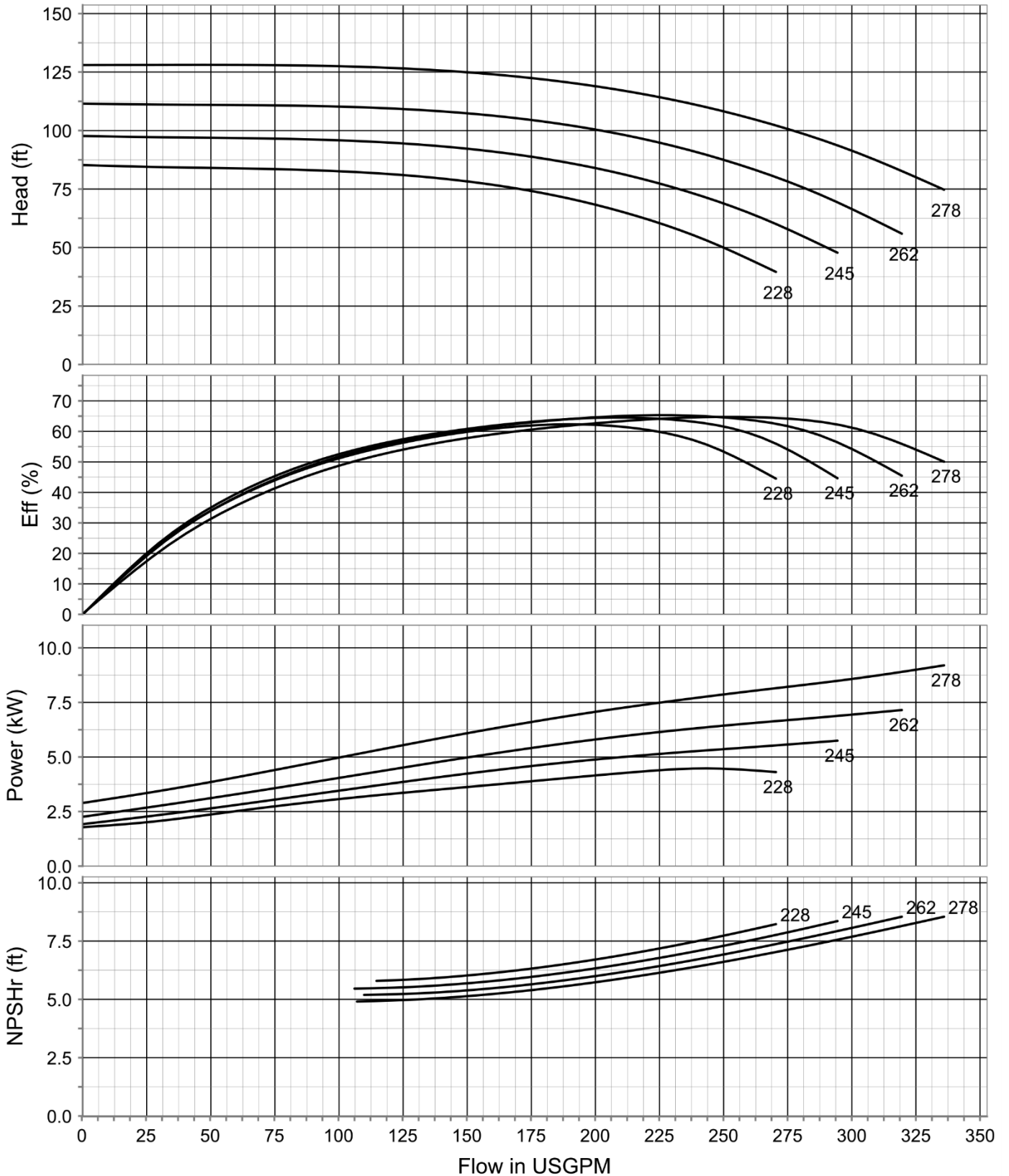
Speed : 1750 RPM , Stage : 1



# MISO 50 – 250 (4P)

## Performance curve

Speed : 1750 RPM , Stage : 1

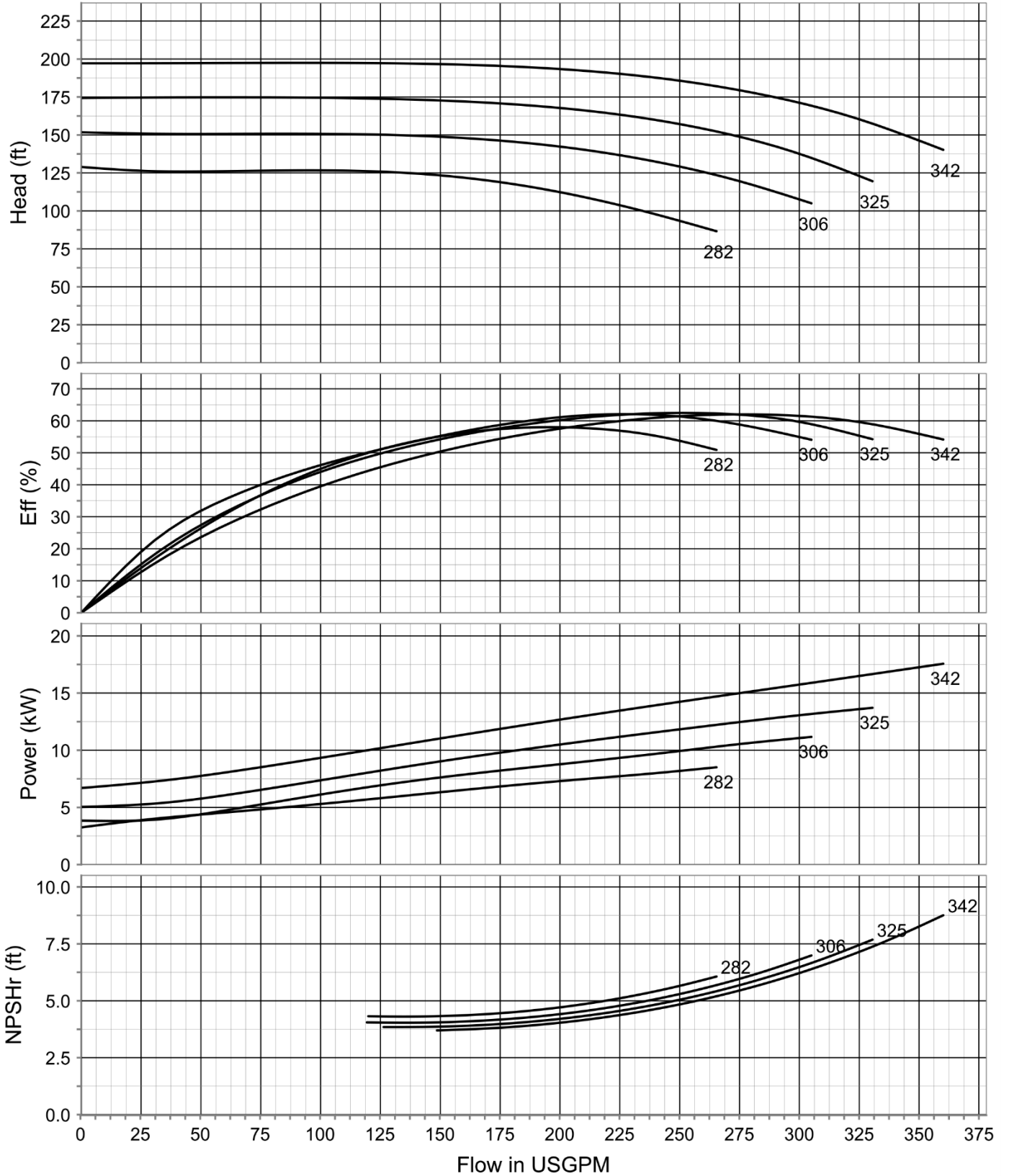


Performance Curve 4P

MISO 50 – 315 (4P)

Performance curve

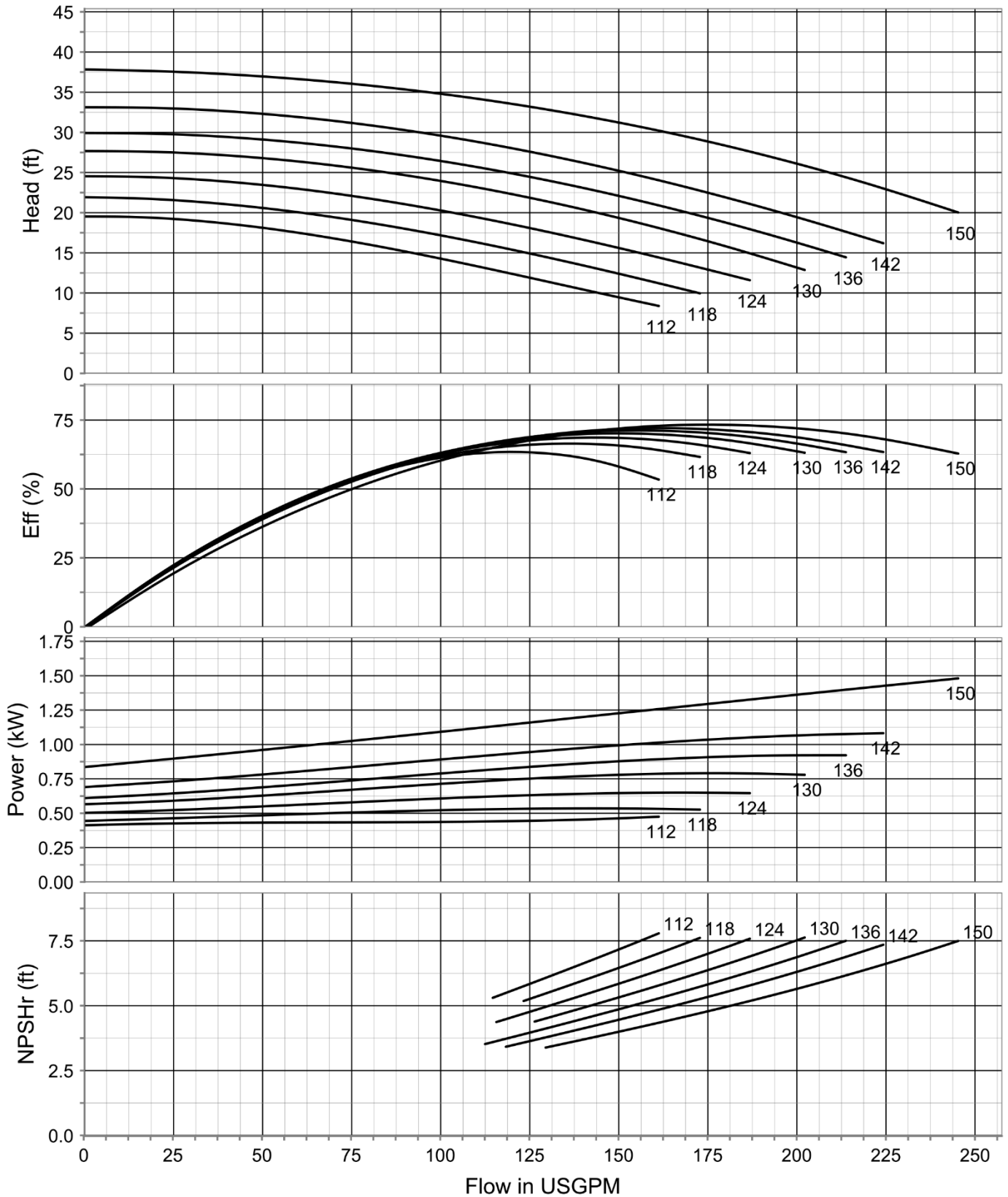
Speed : 1750 RPM , Stage : 1



# MISO 65 – 125 (4P)

## Performance curve

Speed : 1750 RPM , Stage : 1

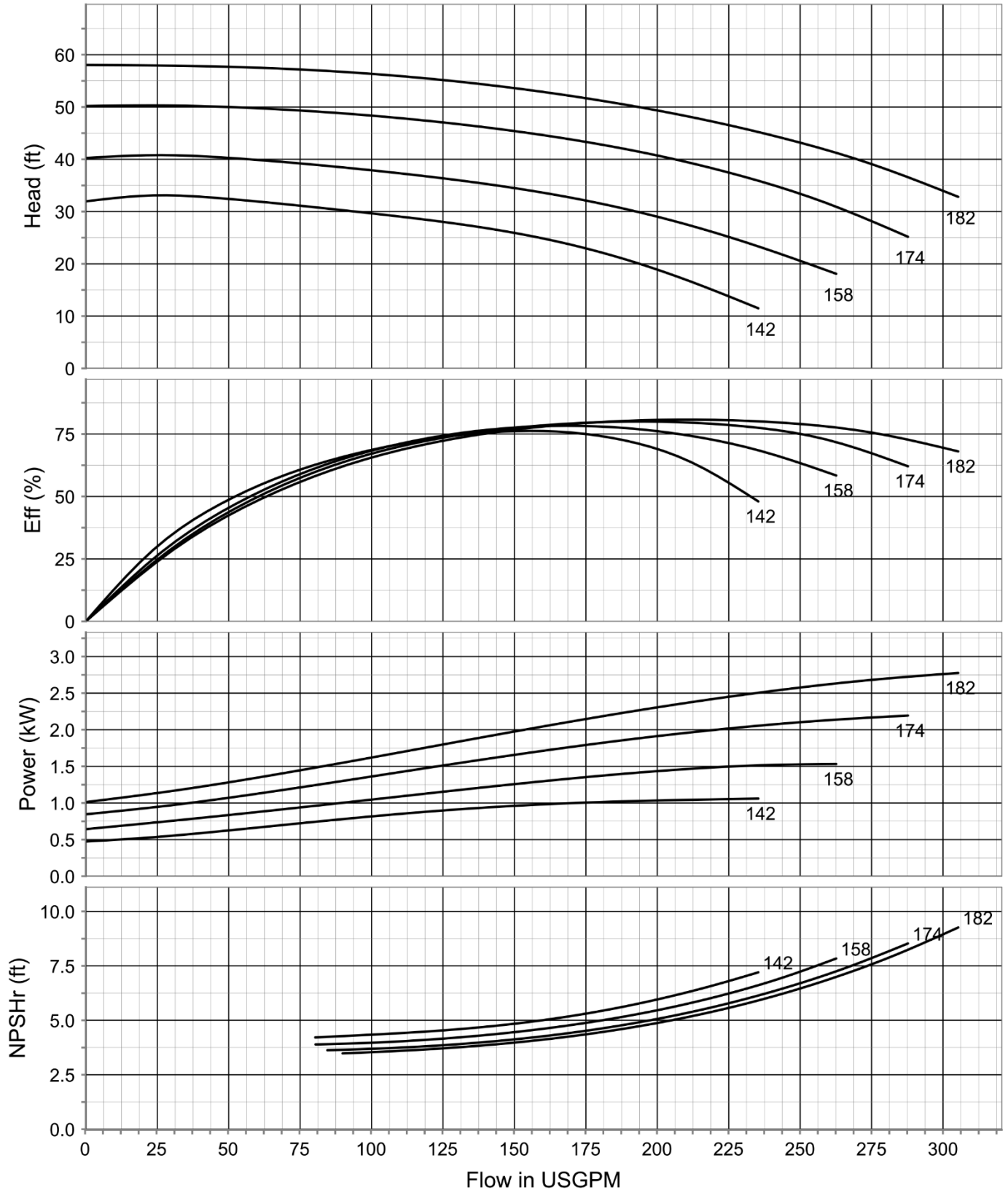


Performance Curve 4P

MISO 65 – 160 (4P)

Performance curve

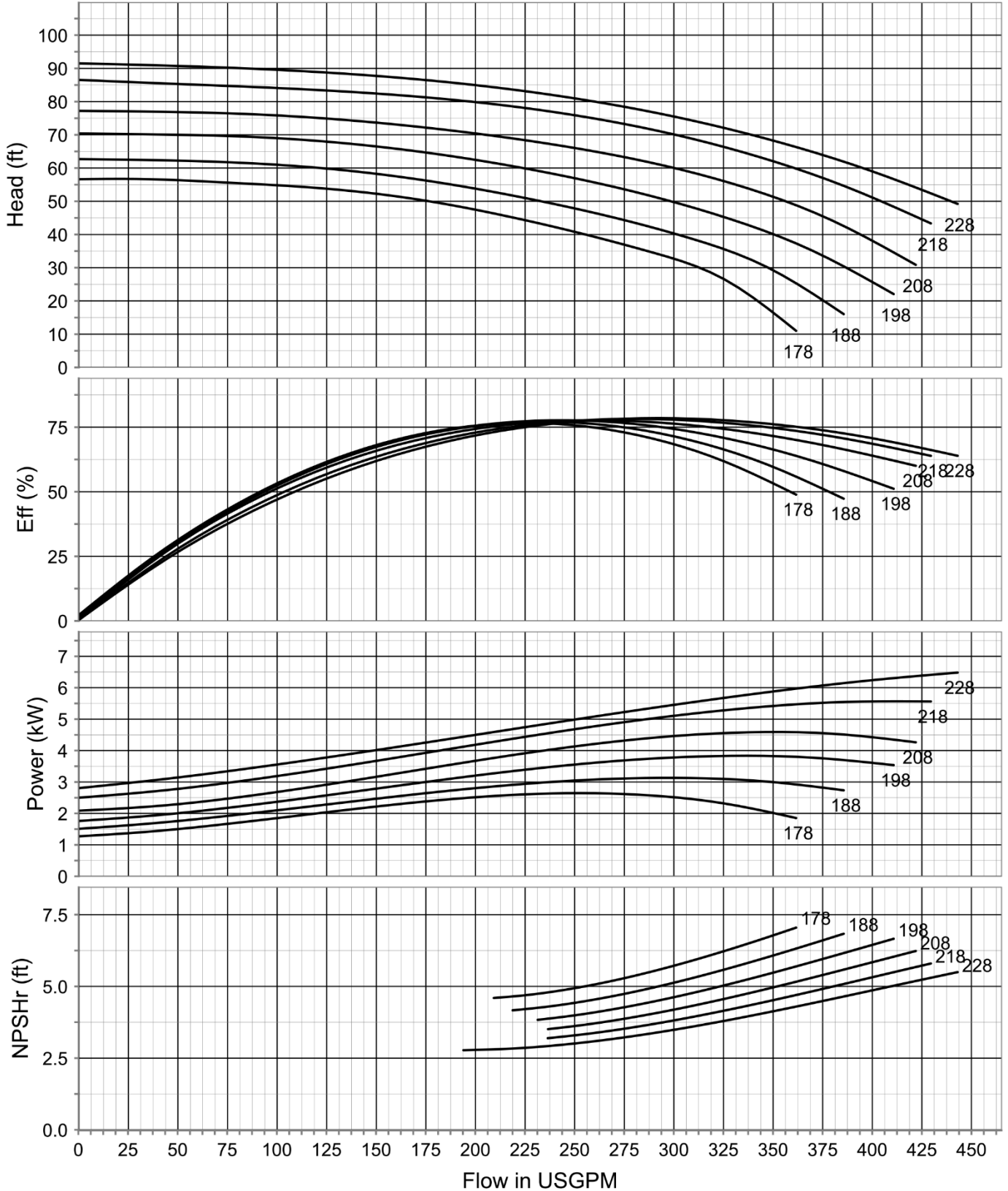
Speed : 1750 RPM , Stage : 1



MISO 65 – 200 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

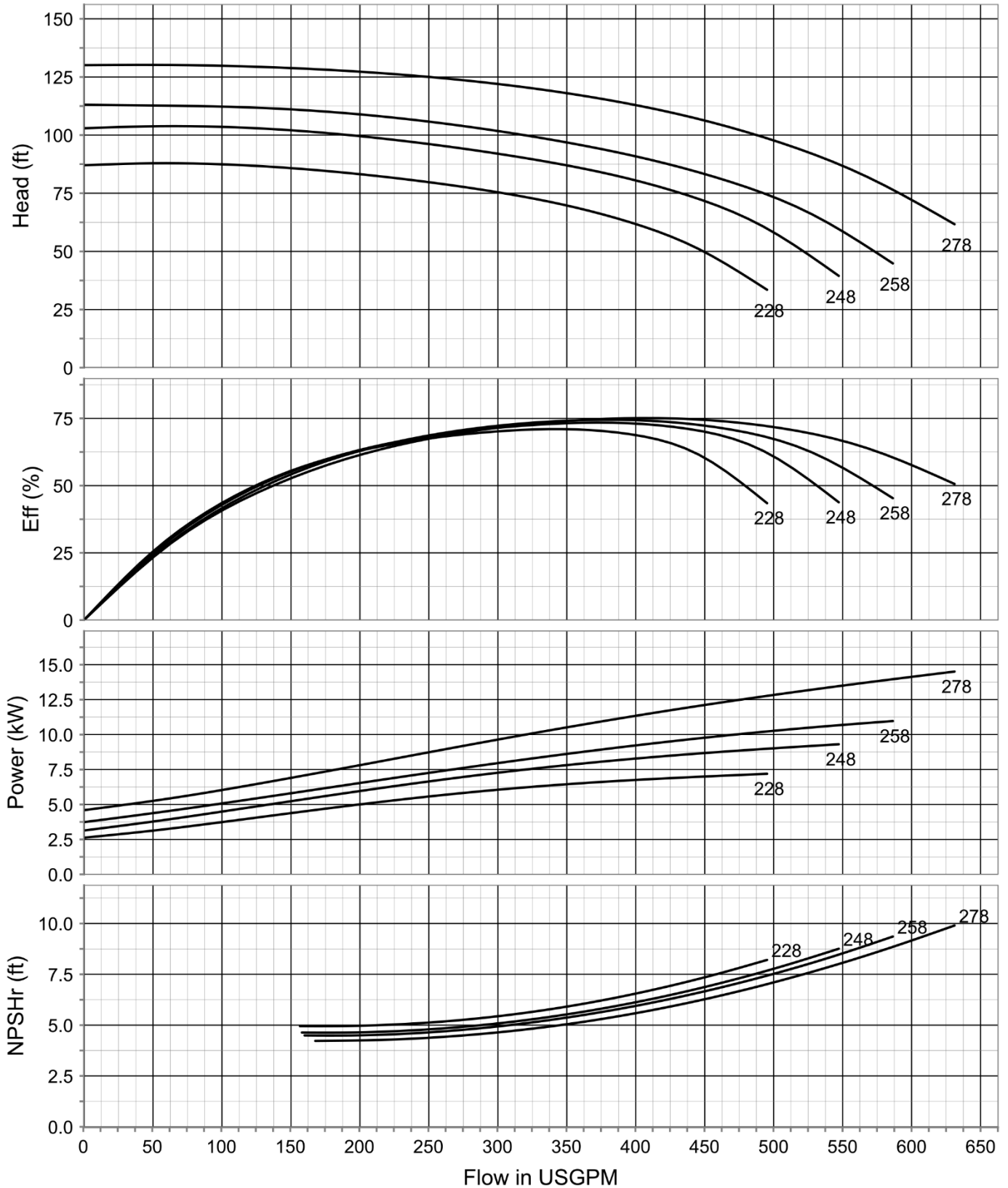


Performance Curve 4P

MISO 65 – 250 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

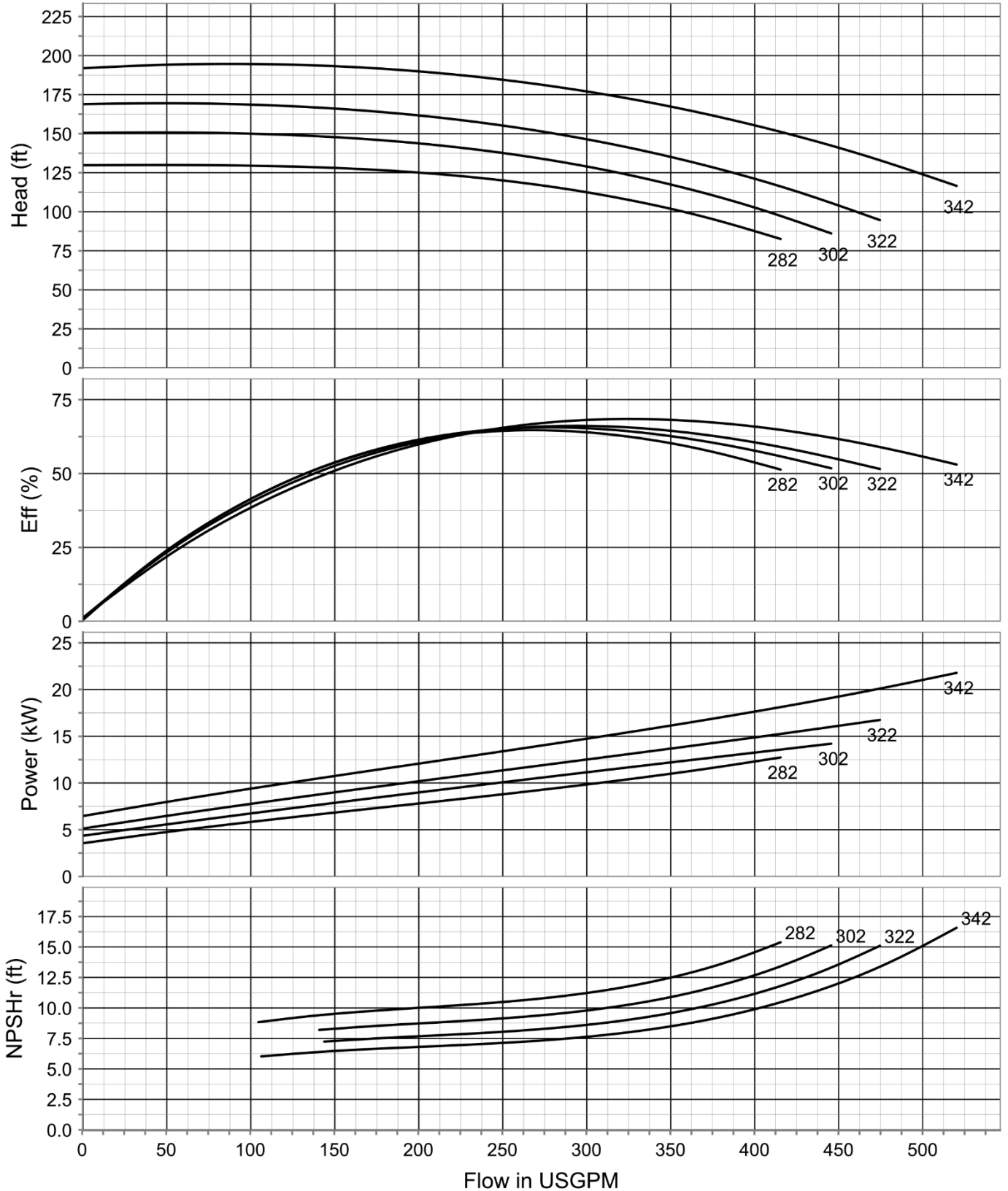




MISO 65 – 315 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

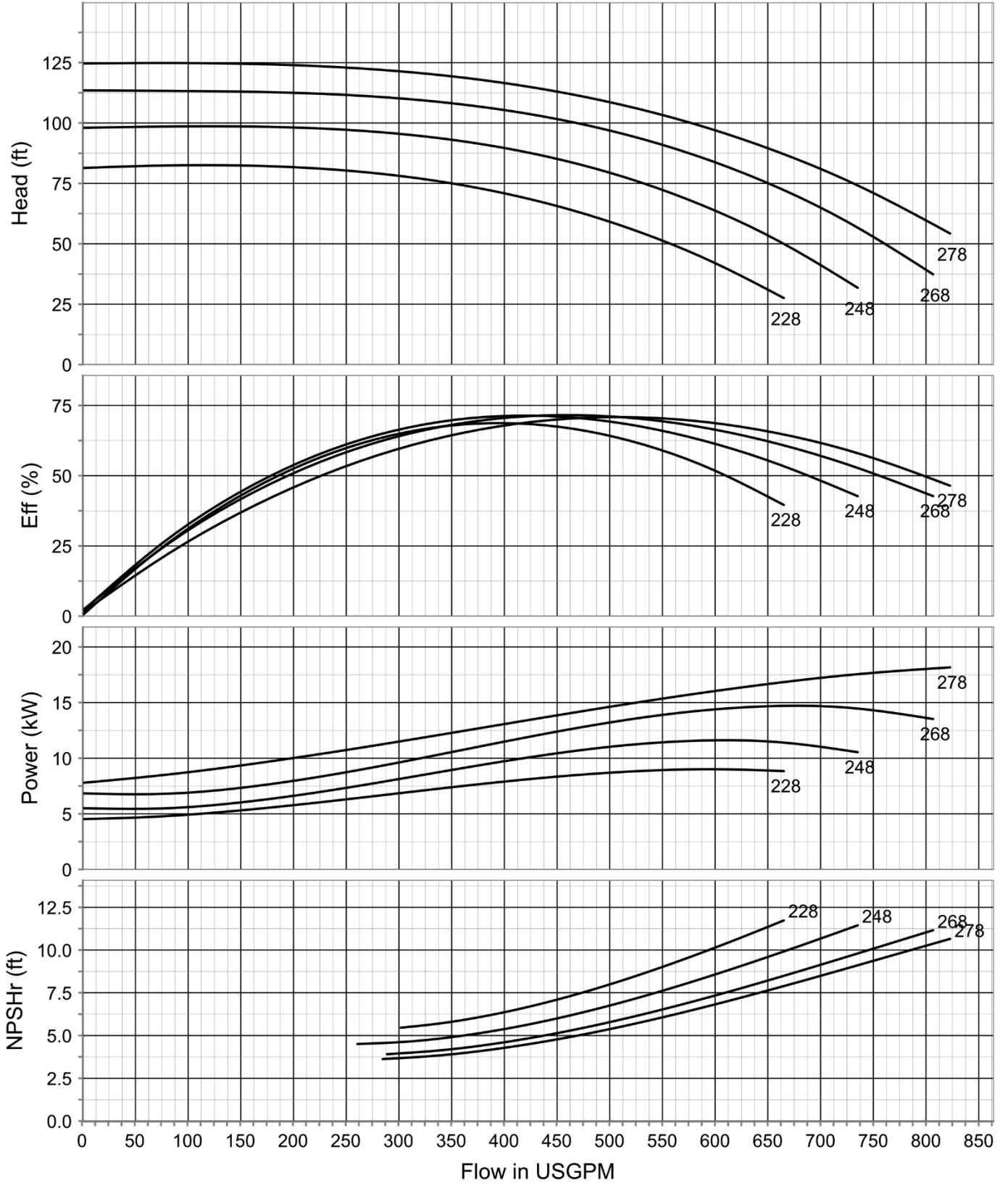


Performance Curve 4P

MISO 80 – 250 (4P)

Performance curve

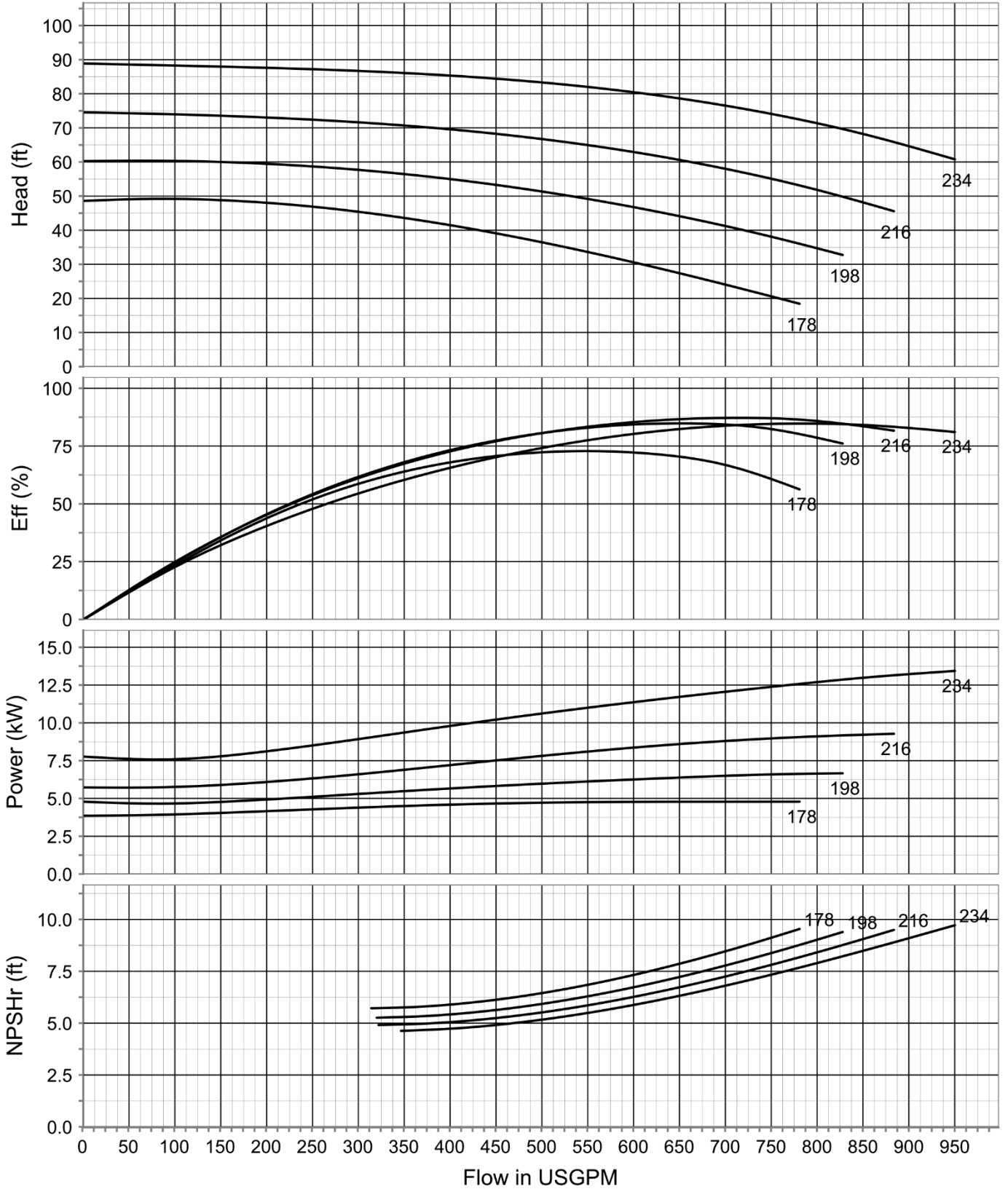
Speed : 1750 RPM , Stage : 1



MISO 100 – 200 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

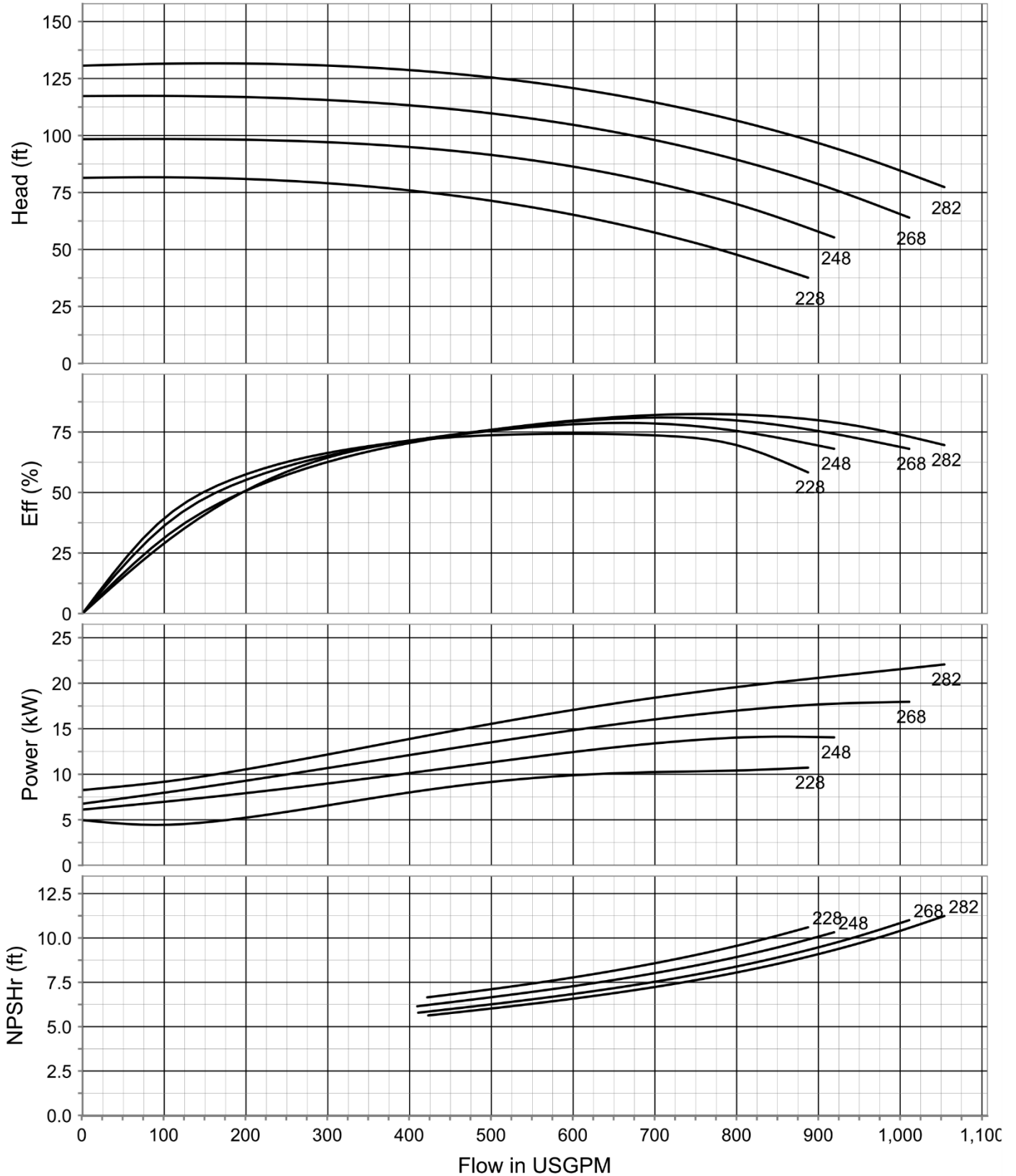


Performance Curve 4P

MISO 100 – 250 (4P)

Performance curve

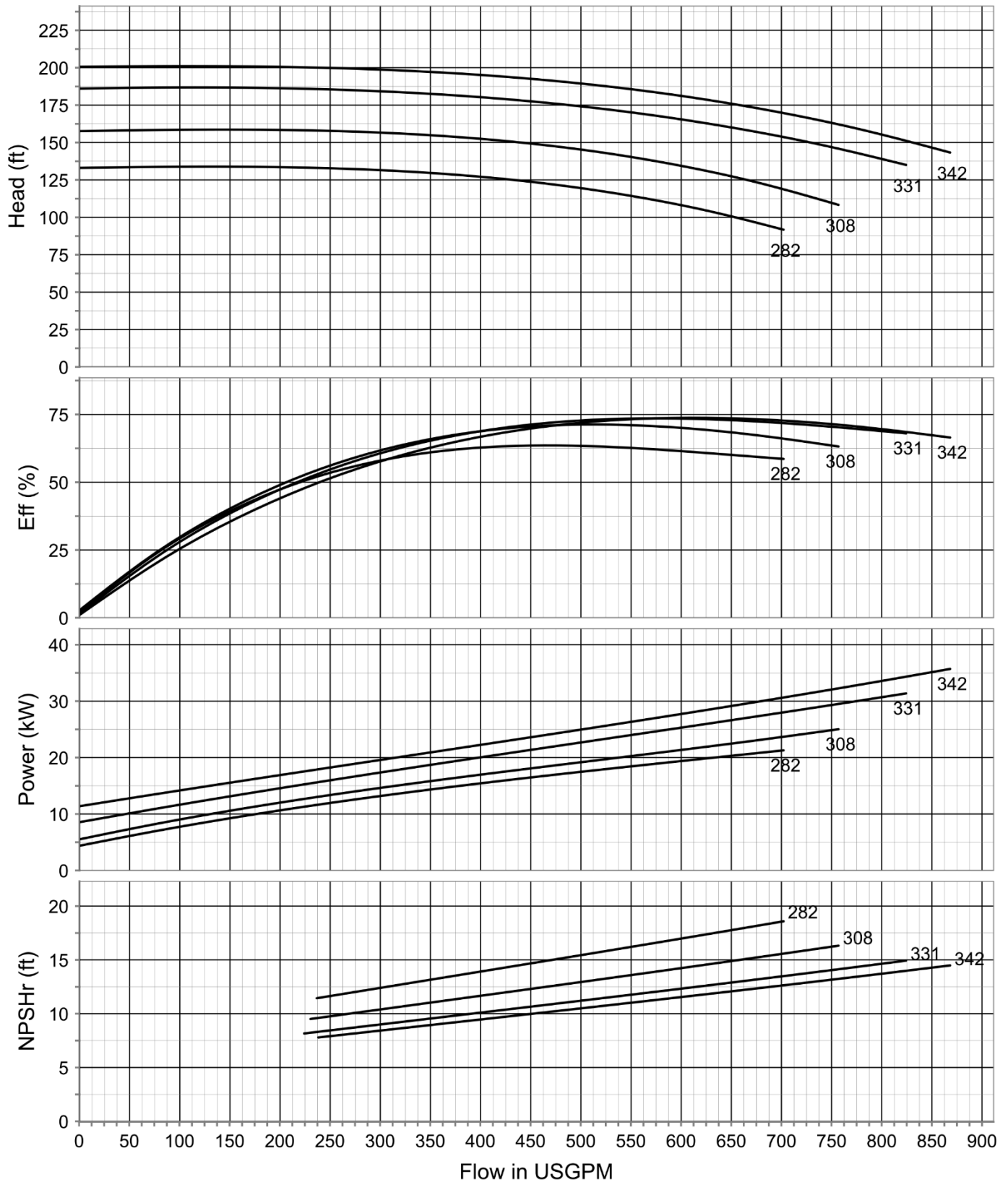
Speed : 1750 RPM , Stage : 1



# MISO 100 – 315 (4P)

## Performance curve

Speed : 1750 RPM , Stage : 1

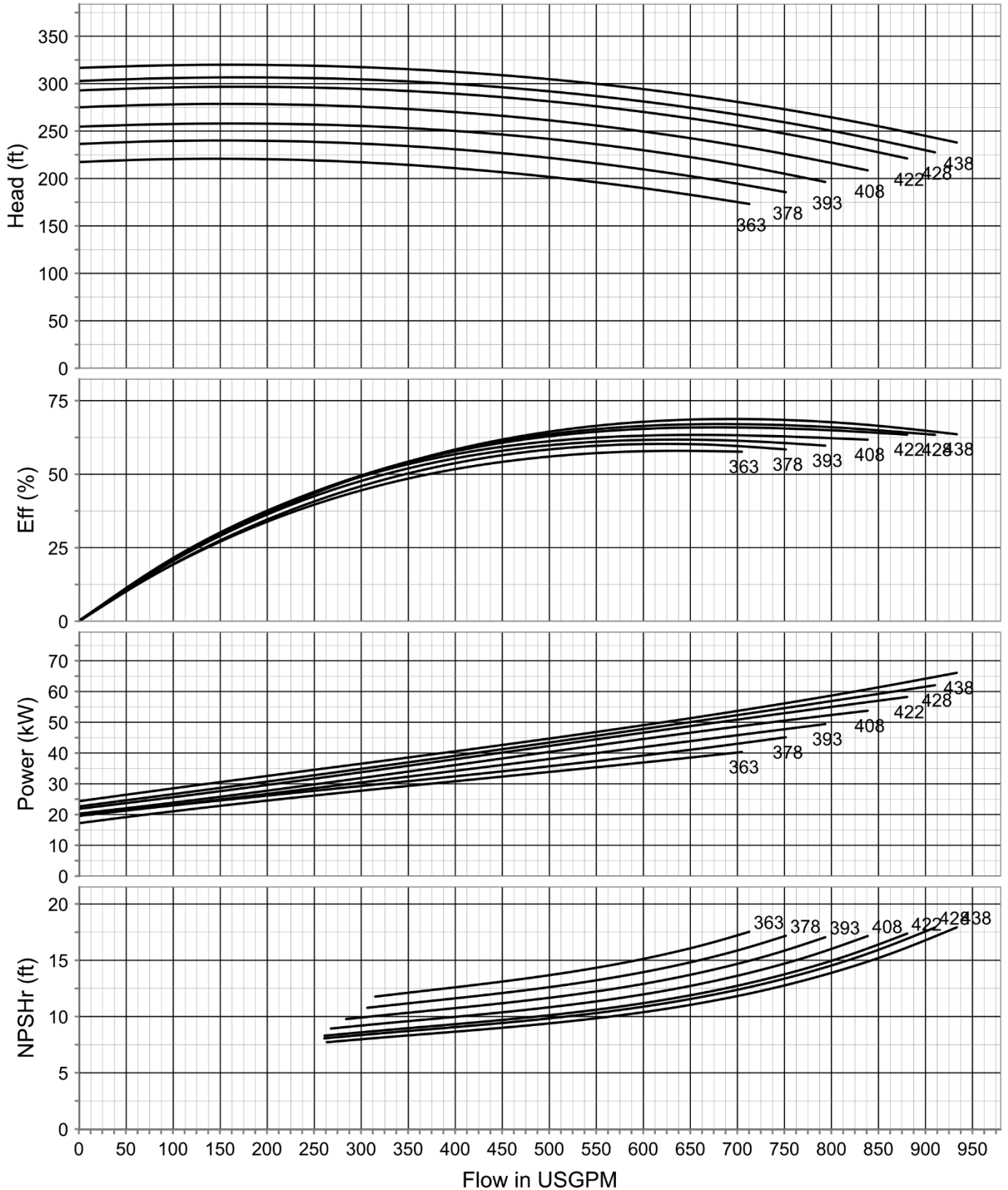


Performance Curve 4P

MISO 100 – 400 (4P)

Performance curve

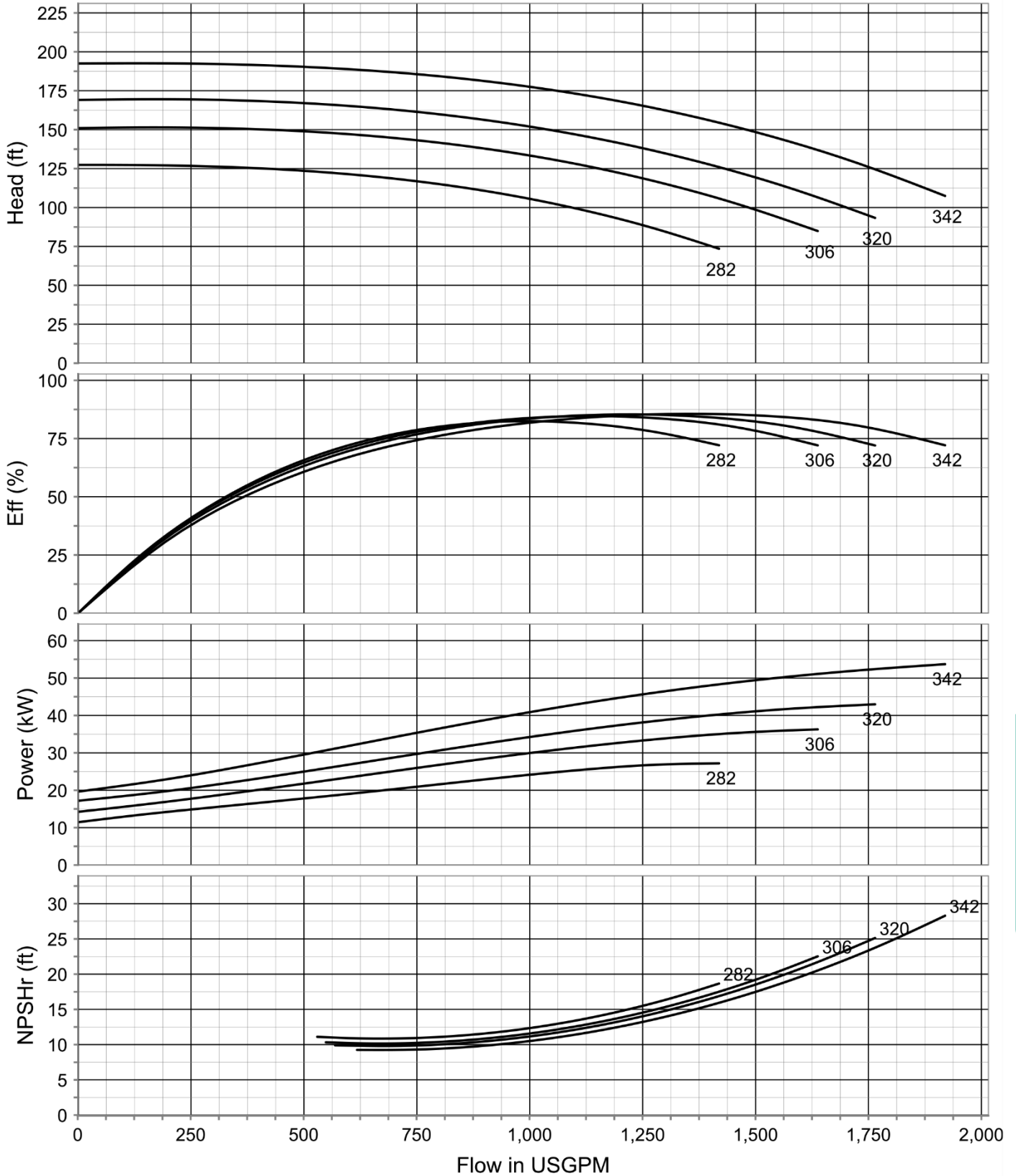
Speed : 1750 RPM , Stage : 1



MISO 125 – 315 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

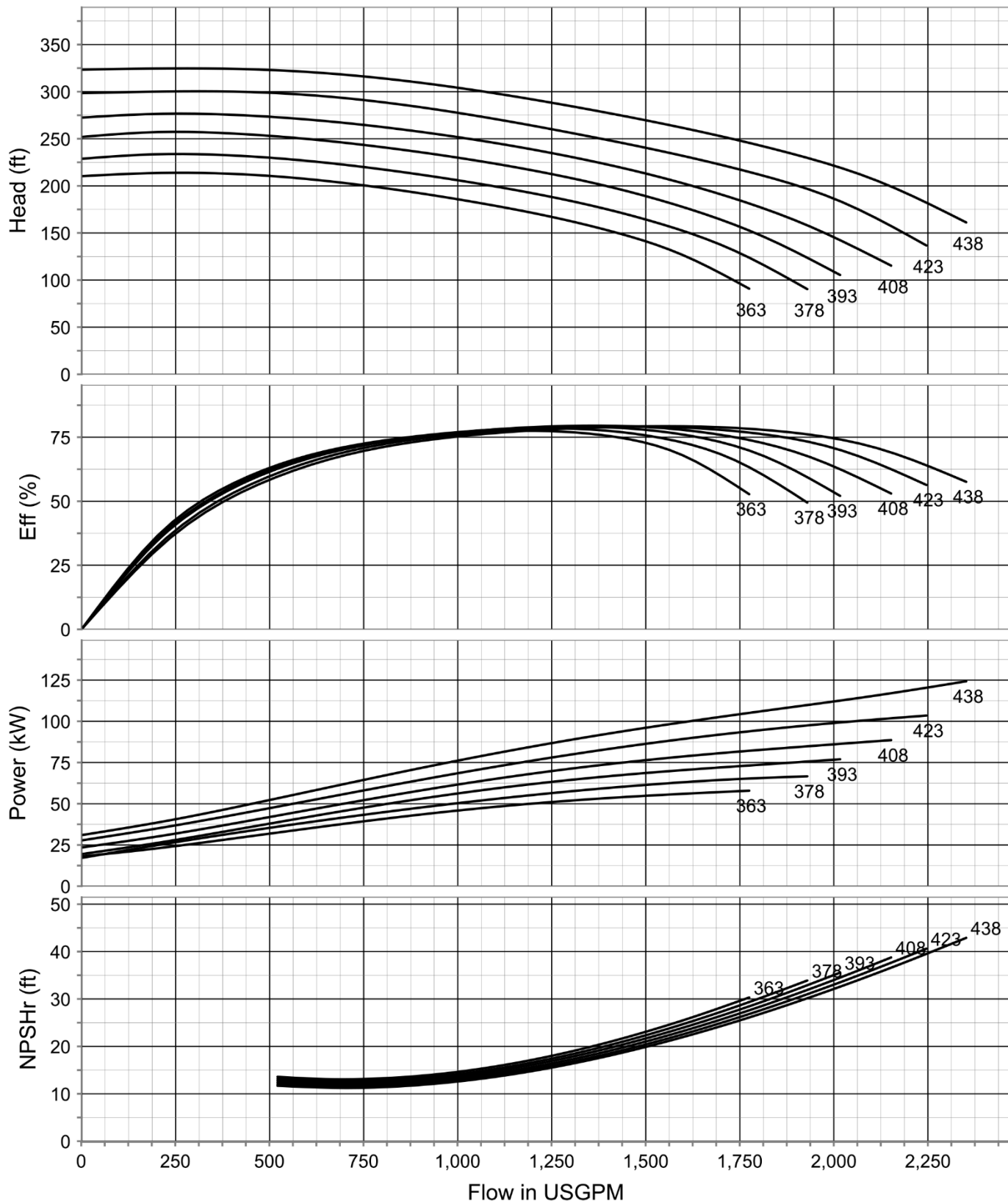


Performance Curve 4P

MISO 125 – 400 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

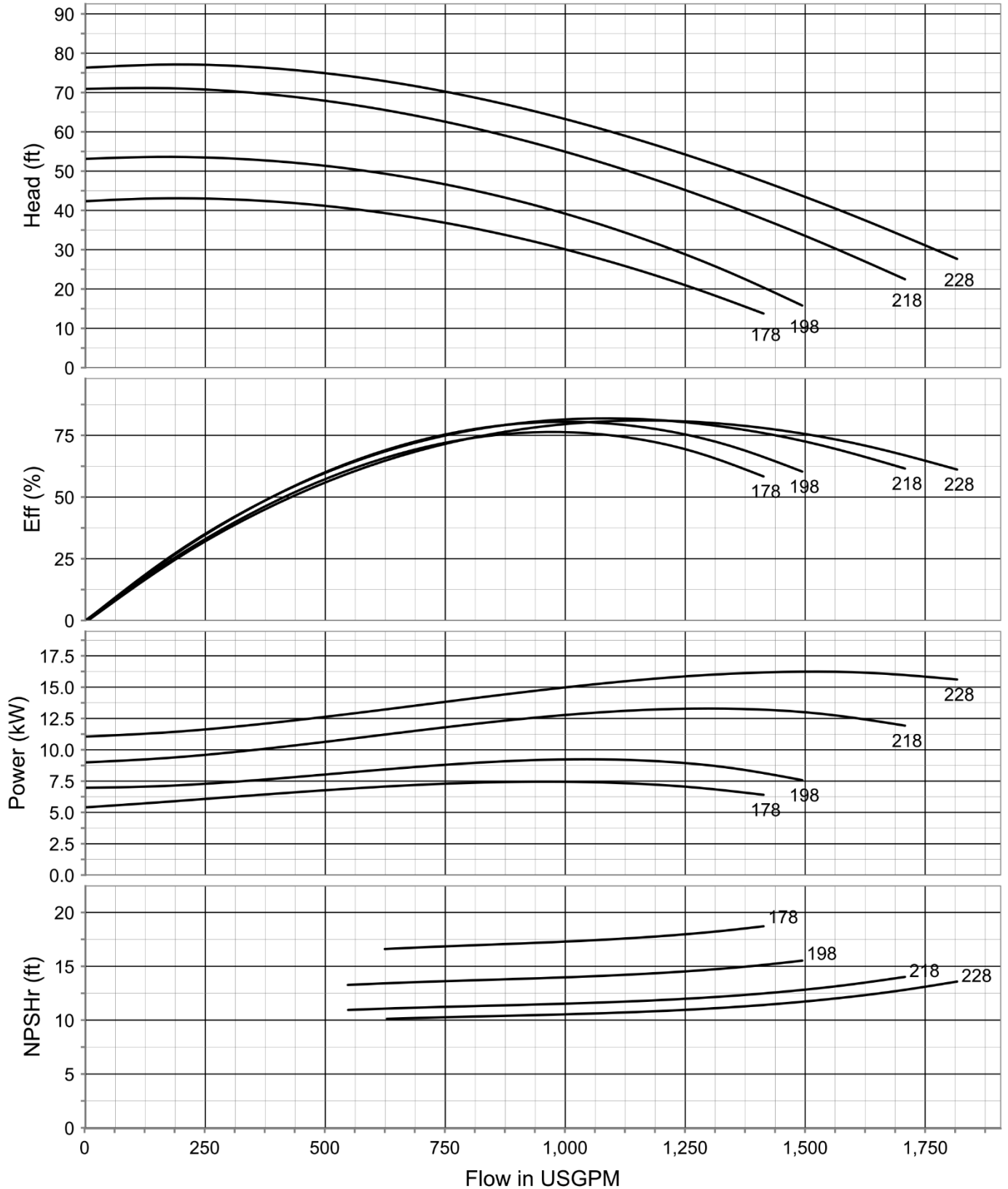




MISO 150 – 200 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1

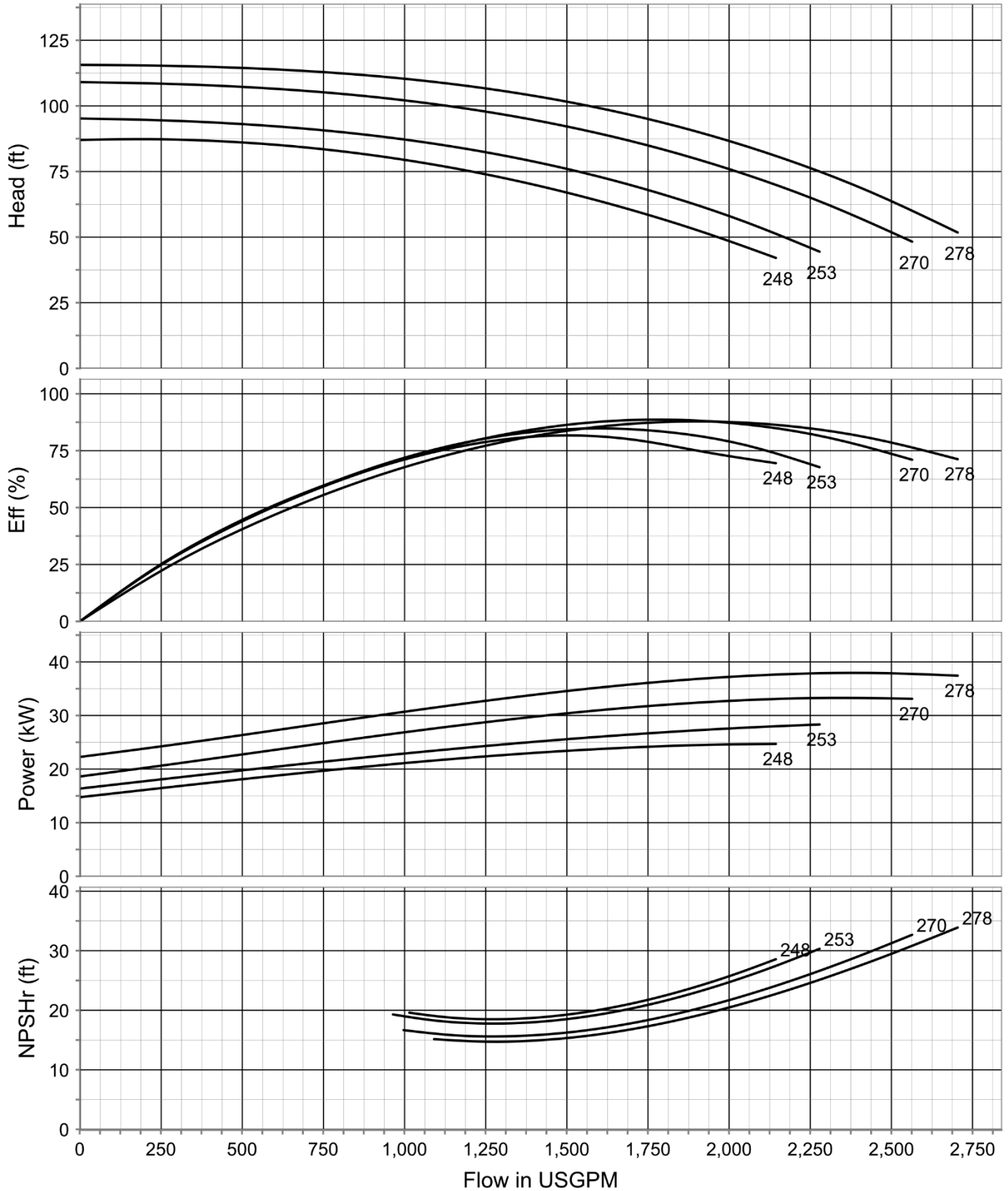


Performance Curve 4P

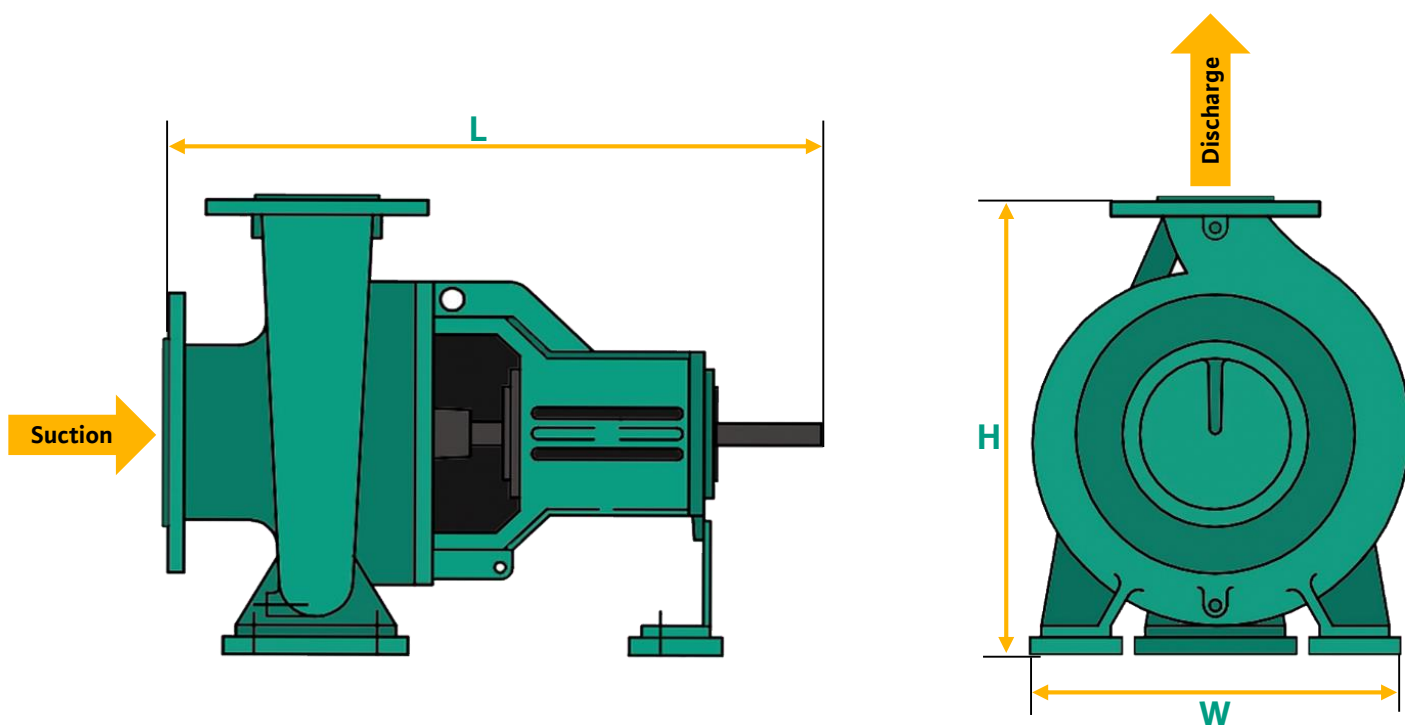
MISO 150 – 250 (4P)

Performance curve

Speed : 1750 RPM , Stage : 1



## Dimension Data – Bare Pump (4P)



| Model        | Pump Size    |                |                        | Length | Width | Height | Mass |
|--------------|--------------|----------------|------------------------|--------|-------|--------|------|
|              | Suction (mm) | Discharge (mm) | Impeller Diameter (mm) |        |       |        |      |
| MISO 32-125  | 50           | 32             | 125                    | 465    | 180   | 252    | 31   |
| MISO 32-160  | 50           | 32             | 160                    | 465    | 230   | 292    | 38   |
| MISO 32-200  | 50           | 32             | 200                    | 465    | 230   | 340    | 45   |
| MISO 40-200  | 65           | 40             | 200                    | 485    | 252   | 340    | 48   |
| MISO 40-315  | 65           | 40             | 315                    | 625    | 332   | 475    | 95   |
| MISO 50-125  | 65           | 50             | 125                    | 465    | 180   | 252    | 36   |
| MISO 50-160  | 65           | 50             | 160                    | 465    | 230   | 292    | 42   |
| MISO 50-200  | 80           | 50             | 200                    | 485    | 252   | 360    | 57   |
| MISO 50-250  | 80           | 50             | 250                    | 625    | 290   | 405    | 84   |
| MISO 50-315  | 80           | 50             | 315                    | 625    | 332   | 505    | 103  |
| MISO 65-125  | 80           | 65             | 125                    | 485    | 230   | 292    | 40   |
| MISO 65-160  | 80           | 65             | 160                    | 485    | 252   | 340    | 47   |
| MISO 65-200  | 100          | 65             | 200                    | 600    | 290   | 405    | 79   |
| MISO 65-250  | 100          | 65             | 250                    | 625    | 332   | 450    | 91   |
| MISO 65-315  | 100          | 65             | 315                    | 655    | 368   | 505    | 110  |
| MISO 80-250  | 125          | 80             | 250                    | 625    | 368   | 505    | 90   |
| MISO 100-200 | 125          | 100            | 200                    | 625    | 332   | 480    | 90   |
| MISO 100-250 | 125          | 100            | 250                    | 670    | 368   | 505    | 109  |
| MISO 100-315 | 125          | 100            | 315                    | 670    | 368   | 565    | 129  |
| MISO 100-400 | 125          | 100            | 400                    | 670    | 465   | 635    | 171  |
| MISO 125-315 | 150          | 125            | 315                    | 670    | 465   | 635    | 150  |
| MISO 125-400 | 150          | 125            | 400                    | 670    | 465   | 715    | 207  |
| MISO 150-200 | 150          | 150            | 200                    | 670    | 368   | 565    | 122  |
| MISO 150-250 | 200          | 150            | 250                    | 690    | 465   | 655    | 159  |



Pioneering for You

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