



**Pumps and more**

# THE ZAMEP INDUSTRIAL MECHANICAL COMPANY LLC



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# About us



**Zakład Mechaniki Przemysłowej  
ZAMEP Sp. z o.o.**

**THE ZAMEP INDUSTRIAL MECHANICAL COMPANY LLC**



THE ZAMEP INDUSTRIAL MECHANICAL COMPANY LLC was founded in 1994. We mainly design and manufacture centrifugal pumps, single and multi-stage pumps and pump units.

Our pumps are distinguished by the highest possible efficiency with the best lifetime and minimal maintenance. The majority of pumps is selected according to the specified parameters of the Client, gladly supported by our engineering department.

We have specialized machine park and modern foundry which allows to perform the entire production cycle in our factory. This allows us to monitor on a regular basis every stage of production, so we are able to achieve the highest quality and reliability of our pumps.

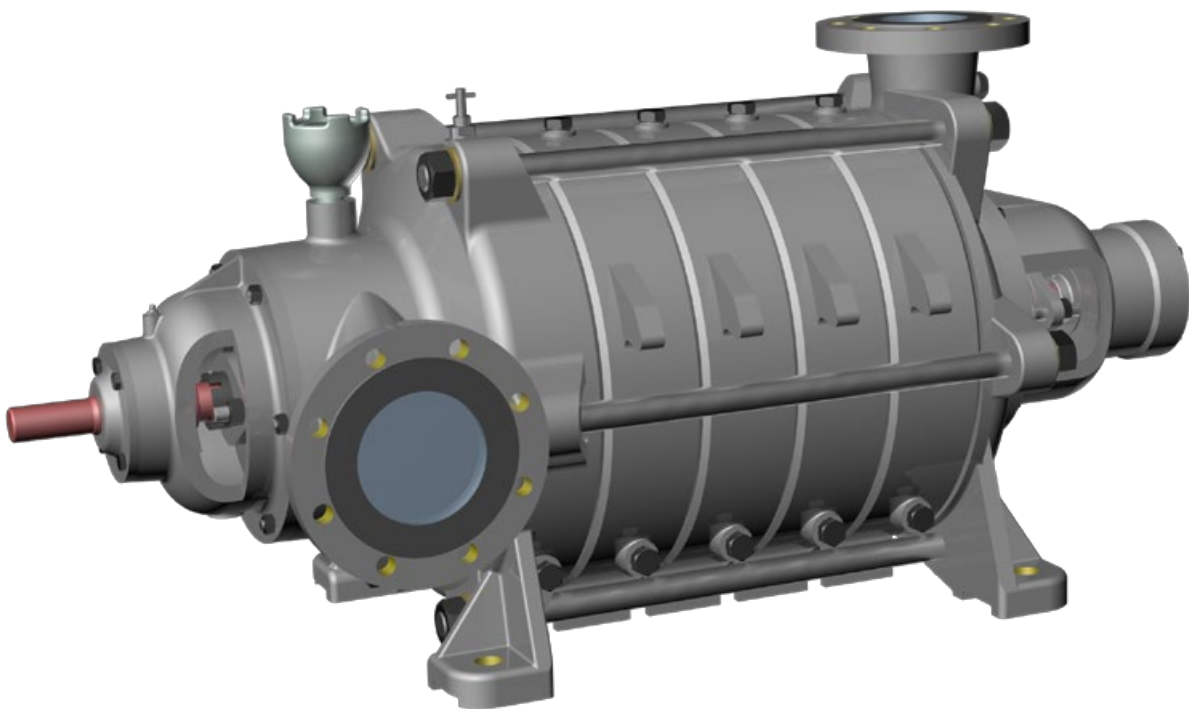
Materials we use mainly for production are cast iron, cast steel, bronze, duplex, superduplex and any other specified by the customer. Our pumps are widely used in industry, such as: mines dewatering up to 1400m, desalination systems, water supply system, general industry, metallurgy, heat engineering, central air conditioning systems, power industry, hydro transport, boiler feeding, chemical industry, and other.



# WPS

## MEDIUM PRESSURE IMPELLER PUMP

**Type BB4**



### TYPICAL APPLICATIONS

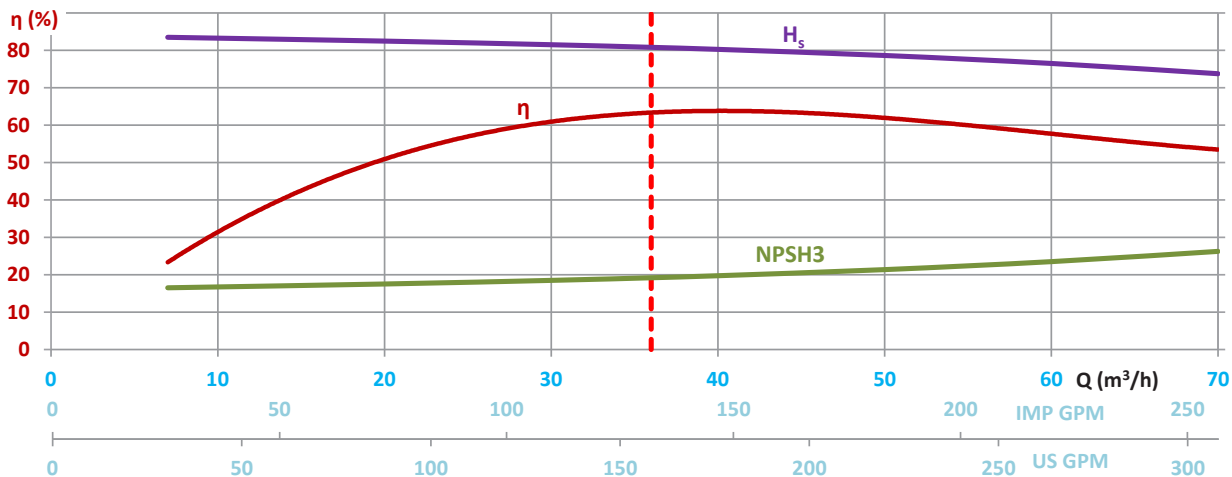
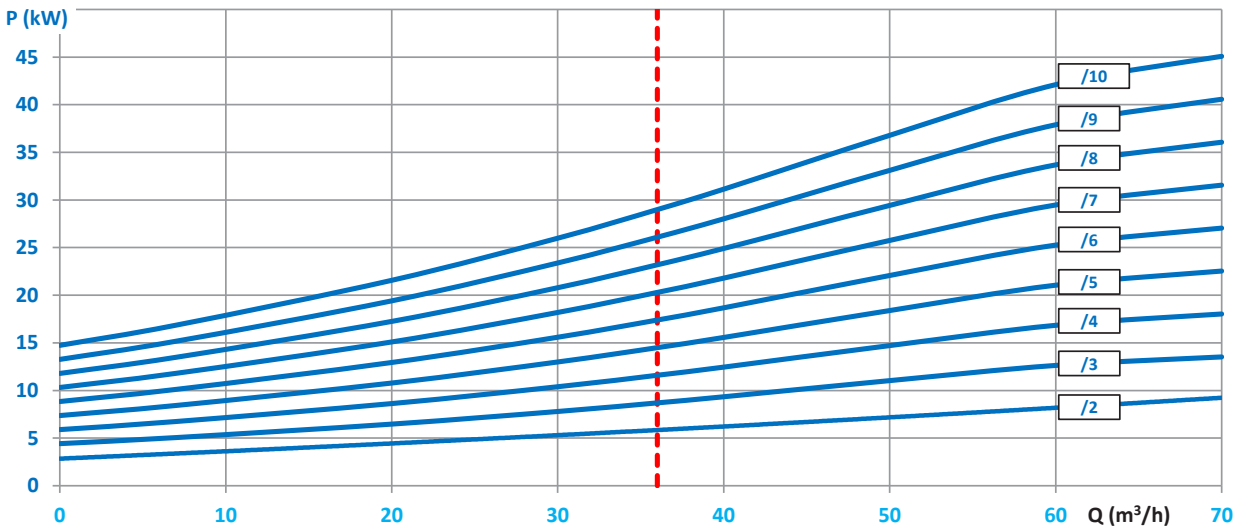
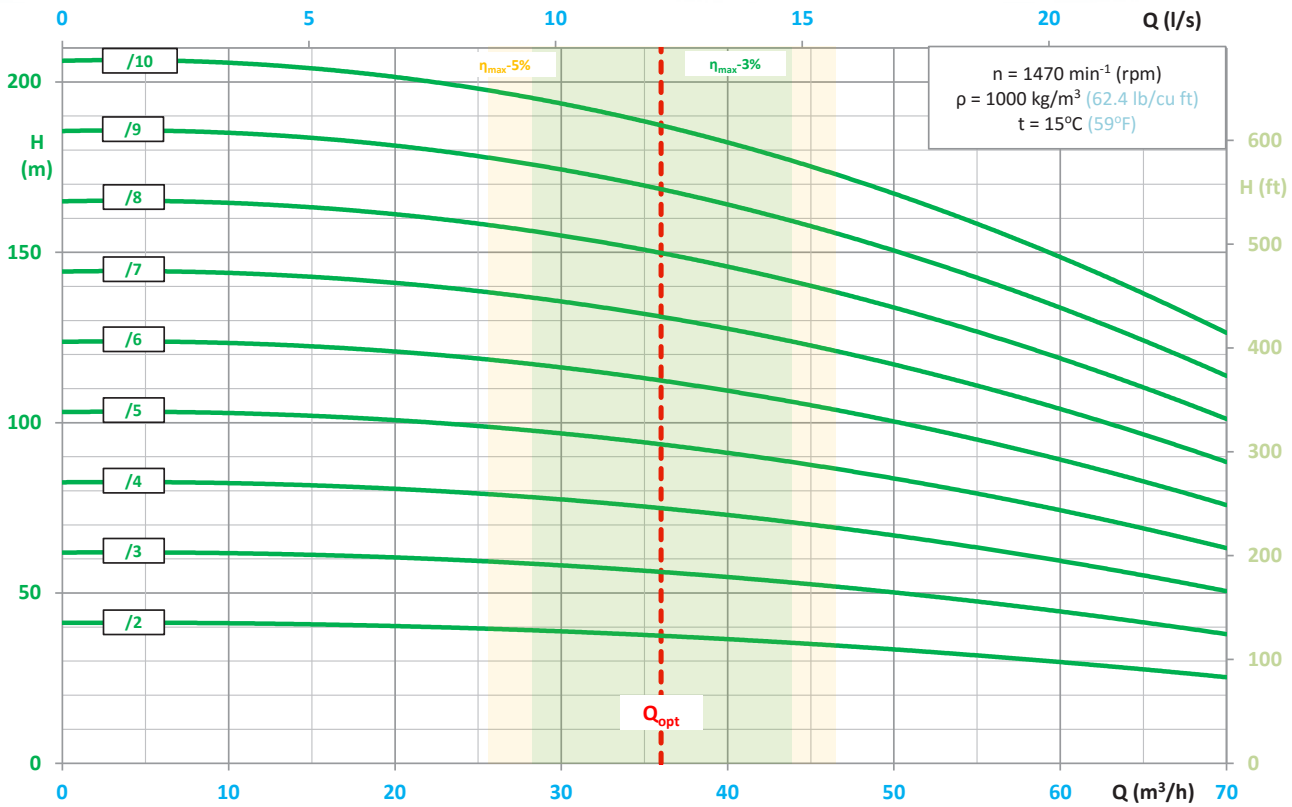
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm (5/64 inch),
- mining – longwall and auxiliary dewatering WPS pumps intended to replace existing medium pressure drainage pumps,
- water supply systems,
- pressure boosting,
- technological processes,
- industrial systems.

### KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- no water cooling of bearings required due to the appropriate design of the relief of the pump axial forces,
- silent and smooth operation,
- connection dimensions in compliance with medium pressure drainage pumps,
- inflow and suction operation,
- compact and modern design,
- maintenance-free operation with the use of mechanical sealing,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

# WPS-80

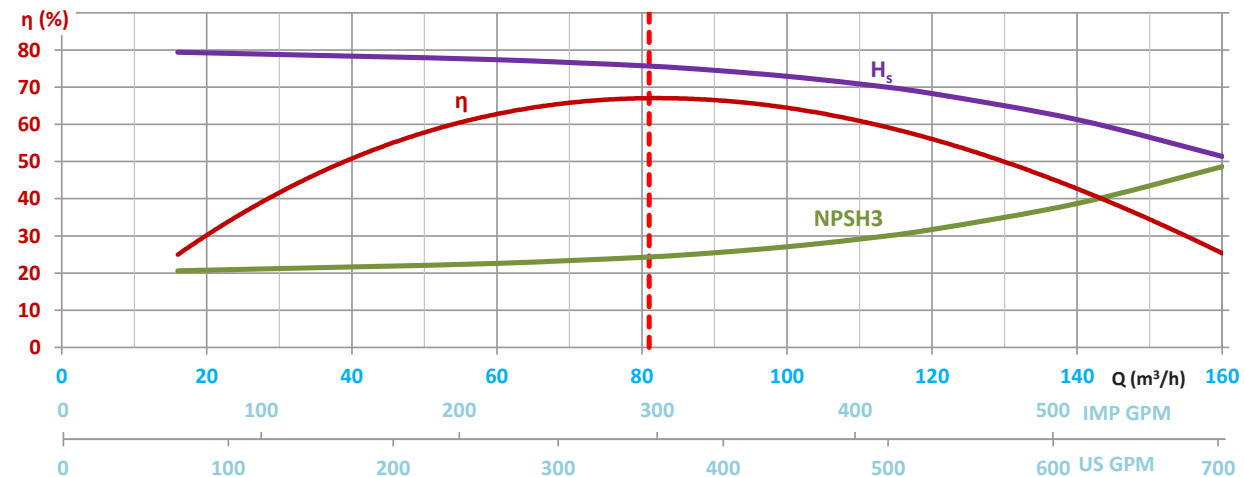
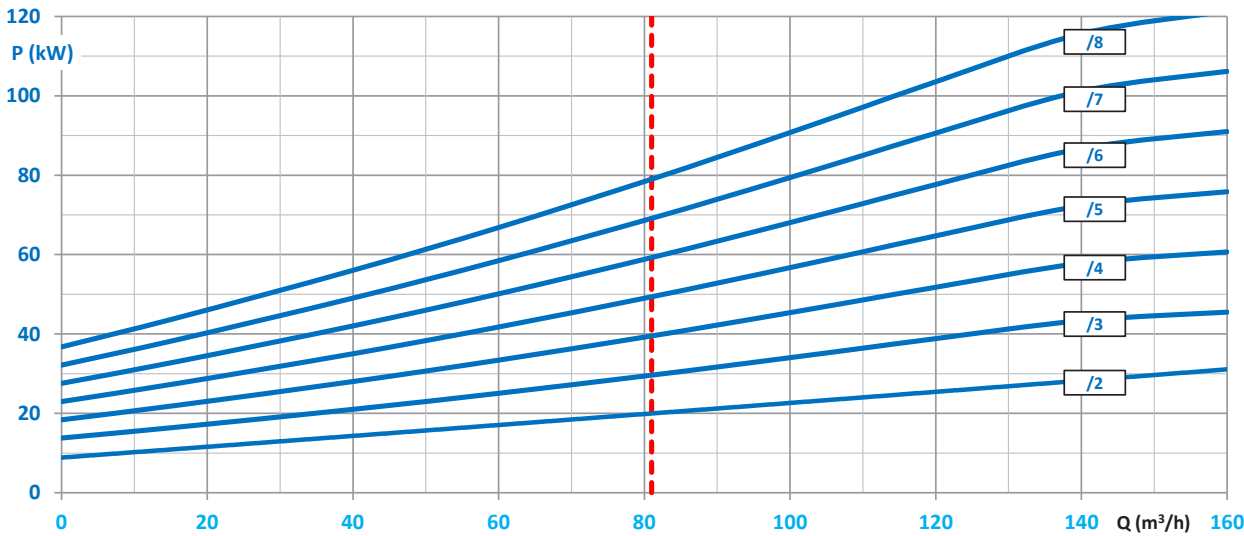
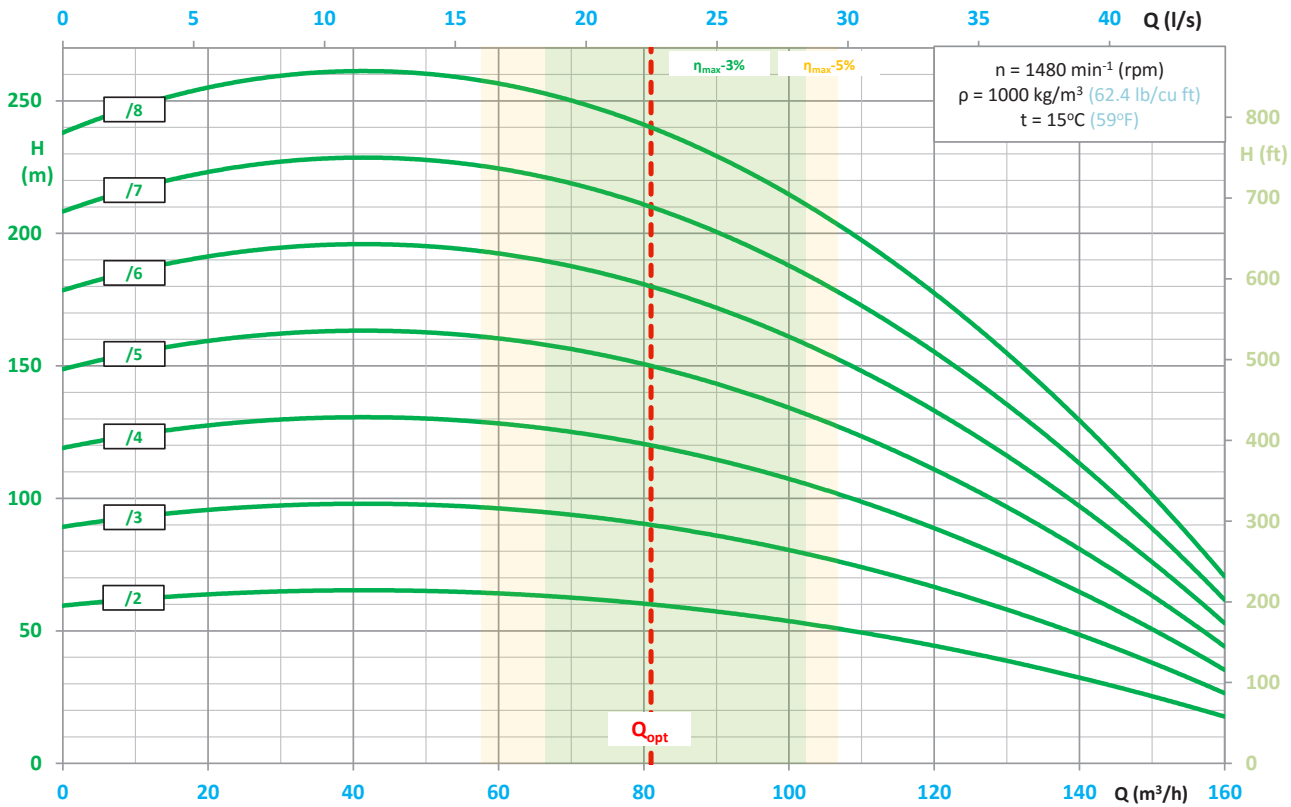
## PUMP PERFORMANCE CURVE



| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |

# WPS-100A

## PUMP PERFORMANCE CURVE

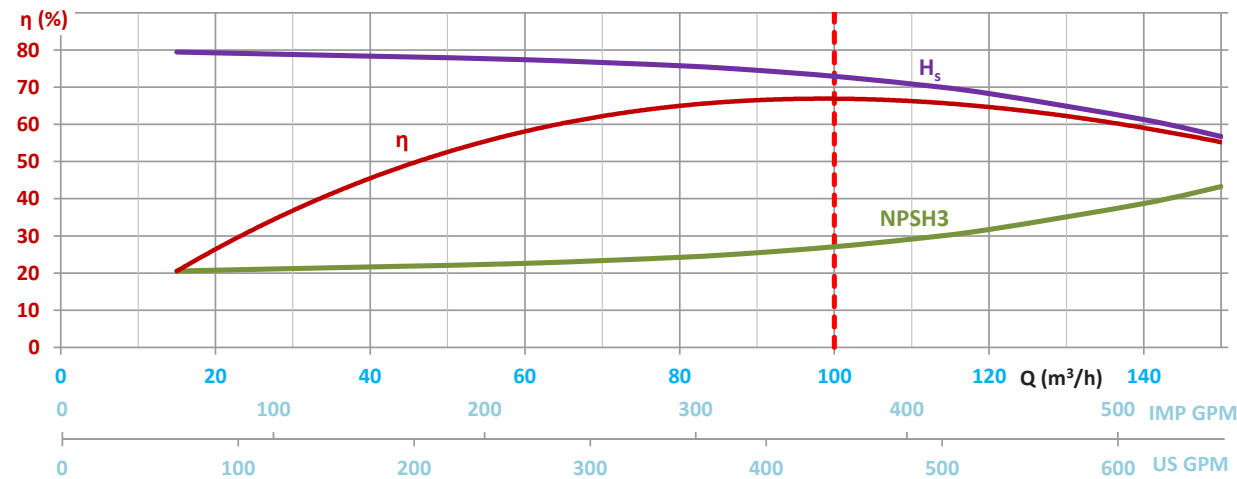
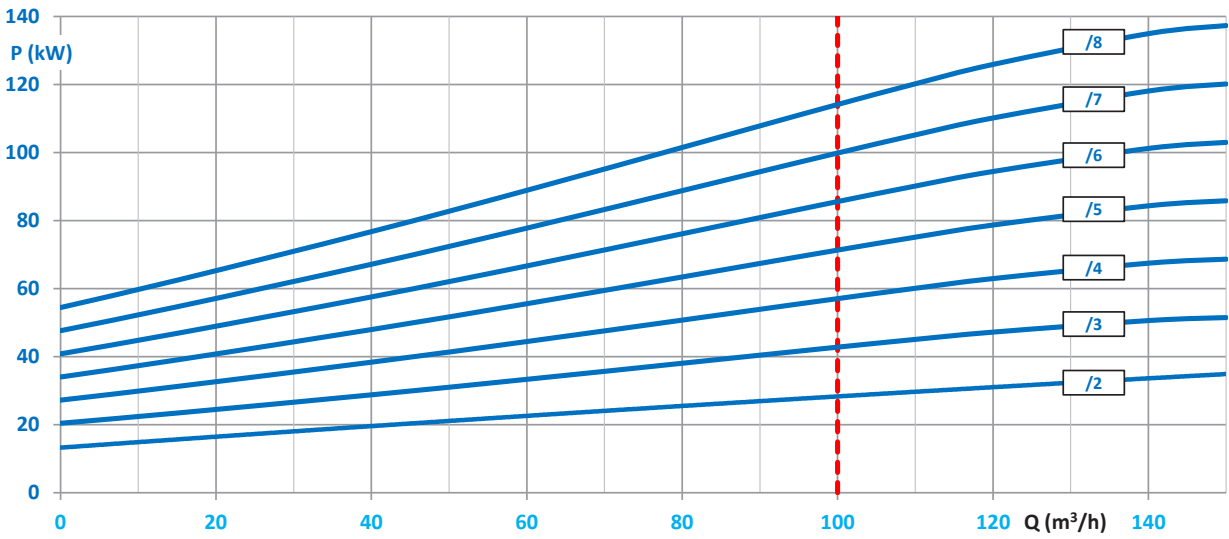
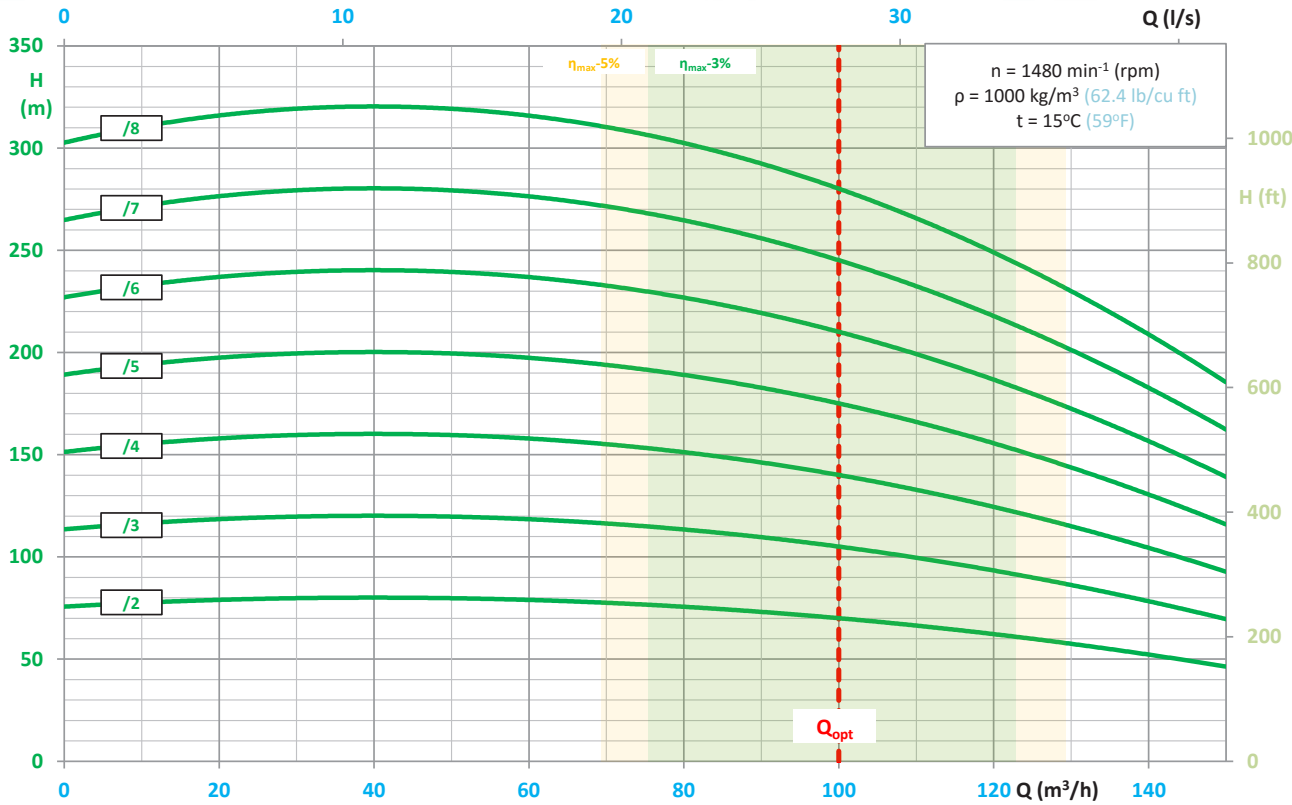


| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |



# WPS-100

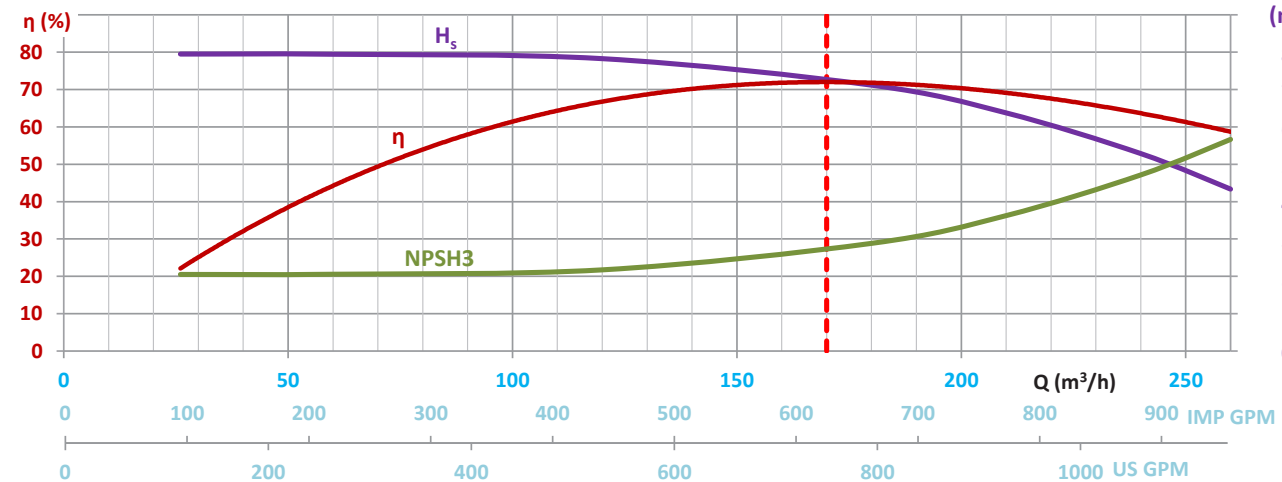
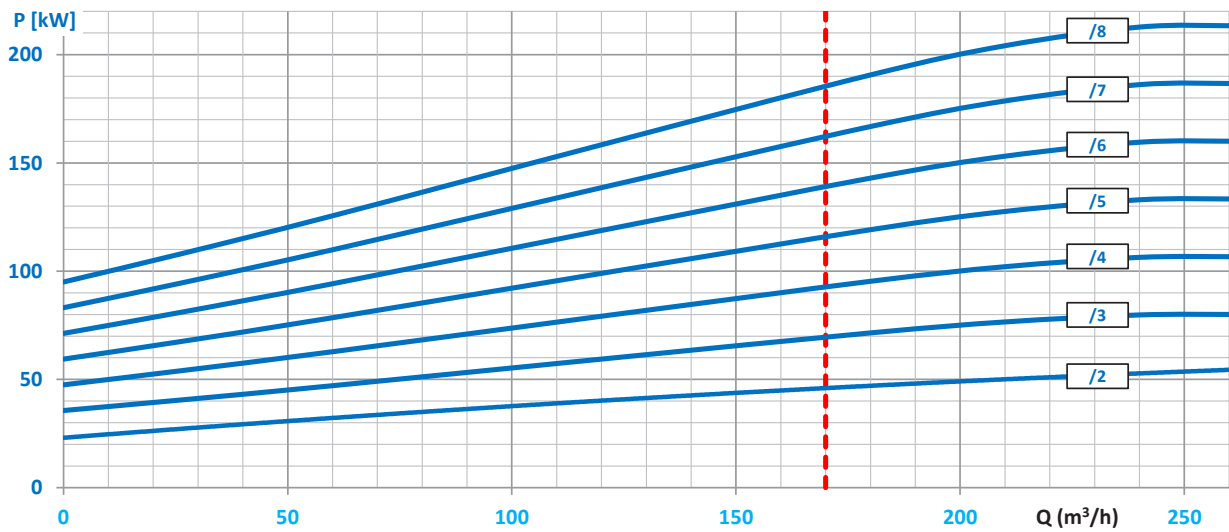
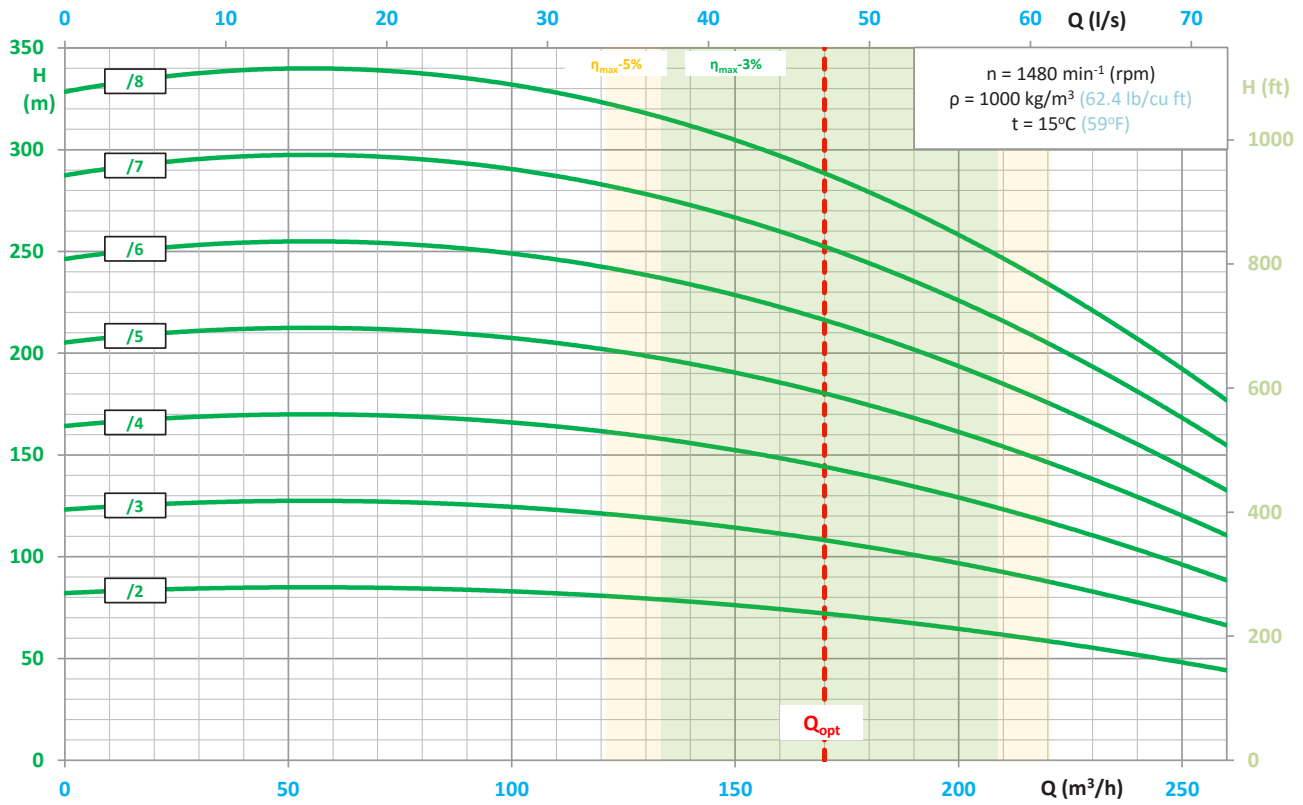
## PUMP PERFORMANCE CURVE



| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |

# WPS-150

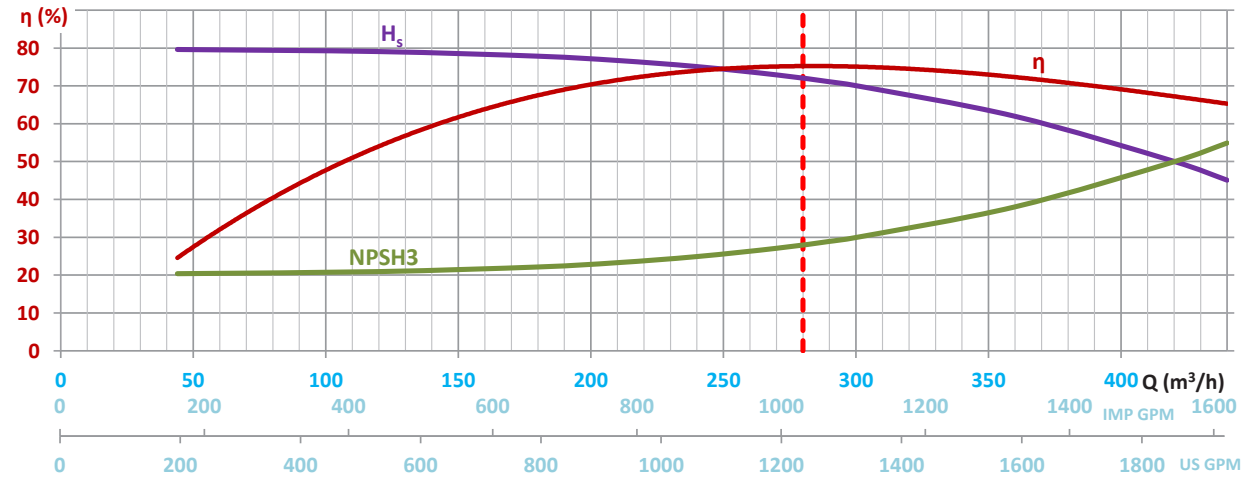
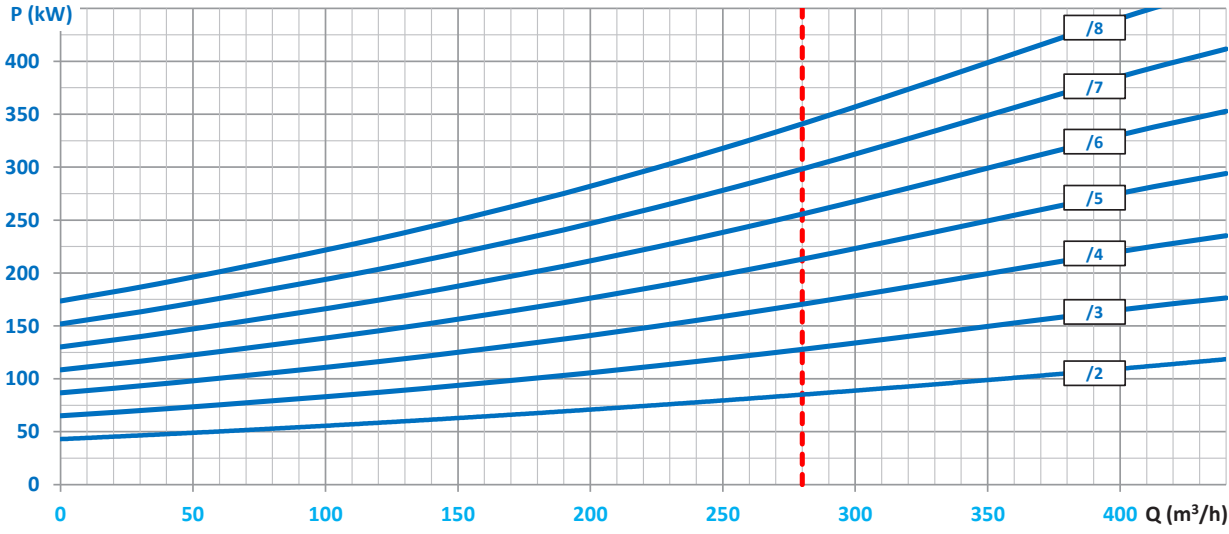
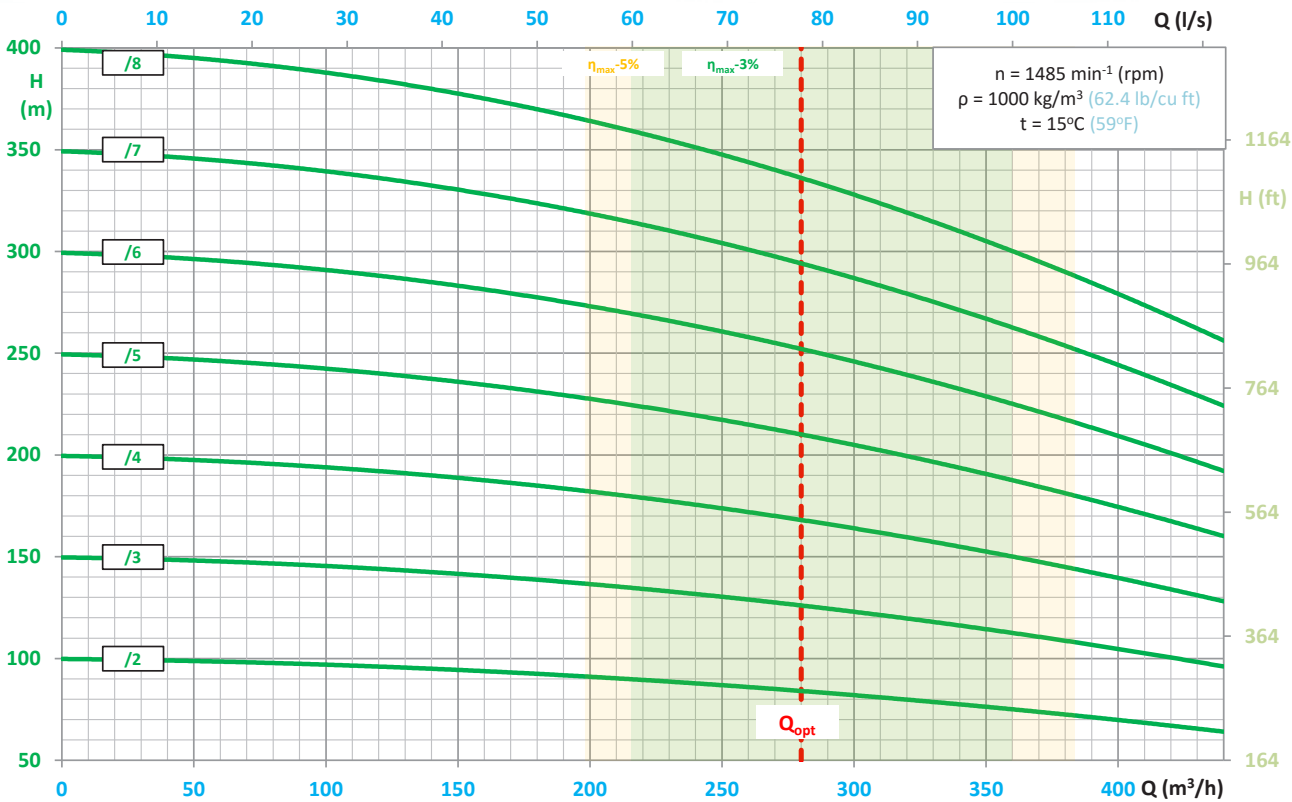
## PUMP PERFORMANCE CURVE



| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |

# WPS-200

## PUMP PERFORMANCE CURVE

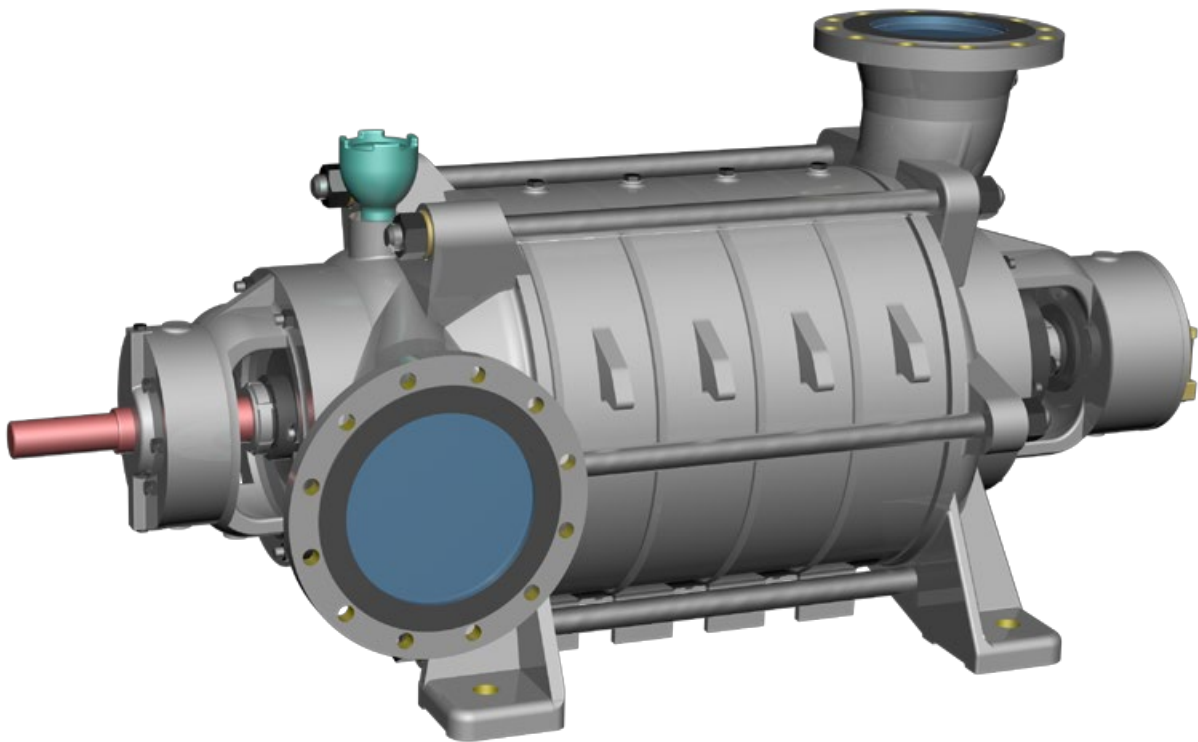


| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |

# WPS-M

## MEDIUM PRESSURE IMPELLER PUMP

**Type BB4**



### TYPICAL APPLICATIONS

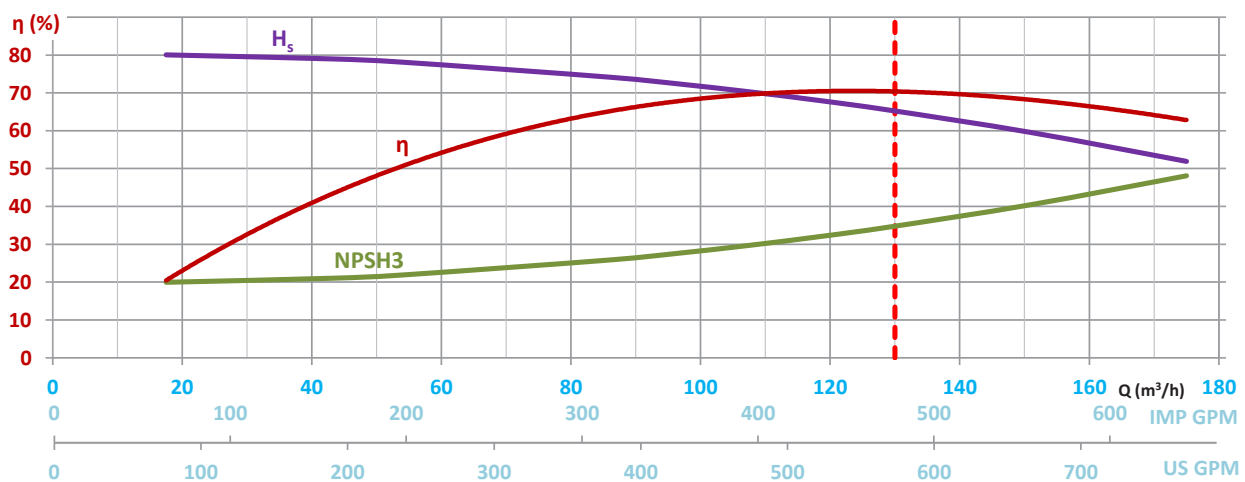
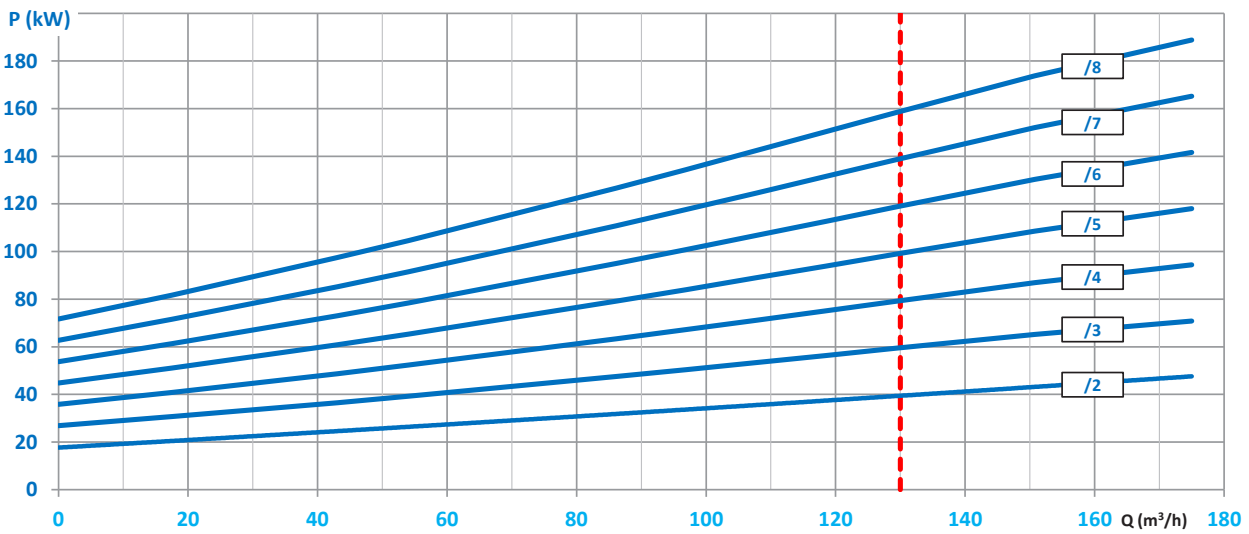
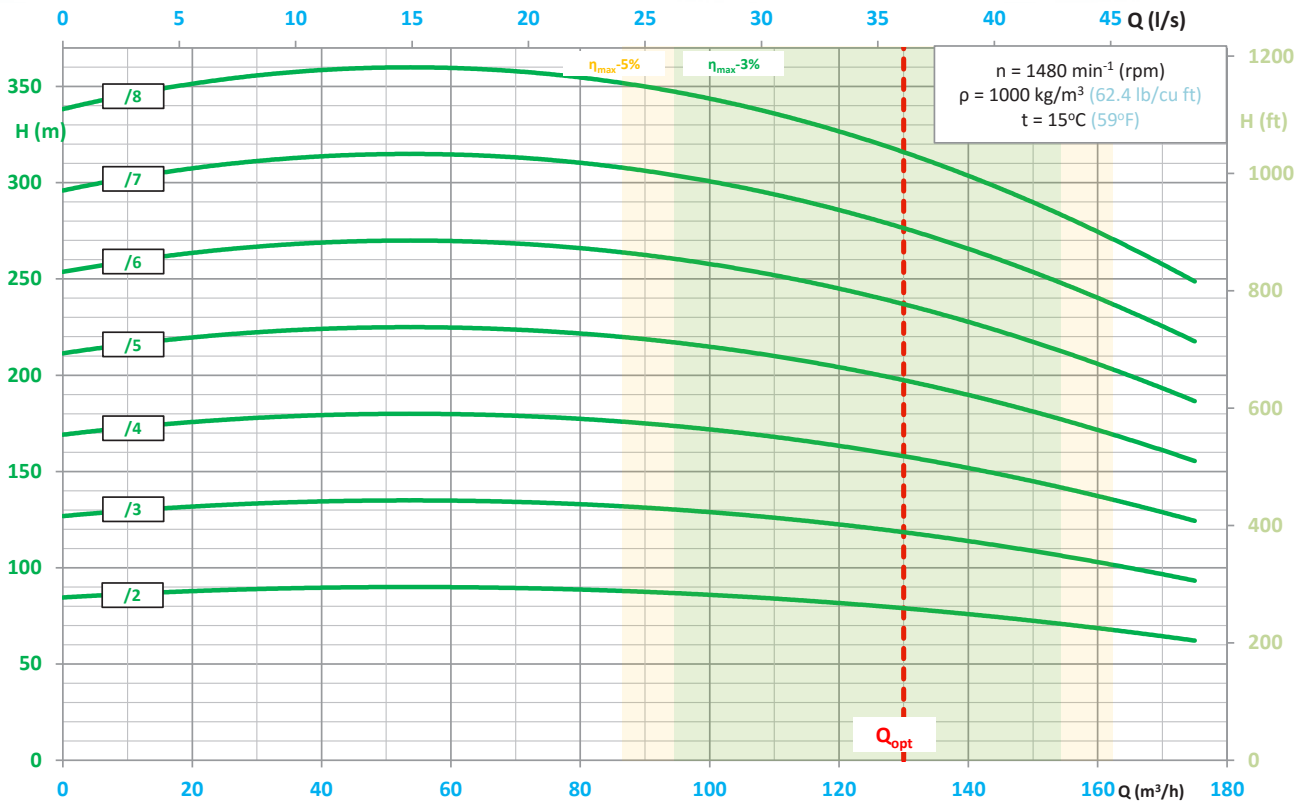
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm (5/64 inch),
- mining – longwall and auxiliary dewatering WPS-M pumps intended to replace existing medium pressure drainage pumps,
- water supply systems,
- pressure boosting,
- technological processes,
- industrial systems.

### KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- no water cooling of bearings required due to the appropriate design of the relief of the pump axial forces,
- silent and smooth operation,
- connection dimensions in compliance with medium pressure drainage pumps,
- inflow and suction operation,
- compact and modern design,
- maintenance-free operation with the use of mechanical sealing,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

# WPS-100M

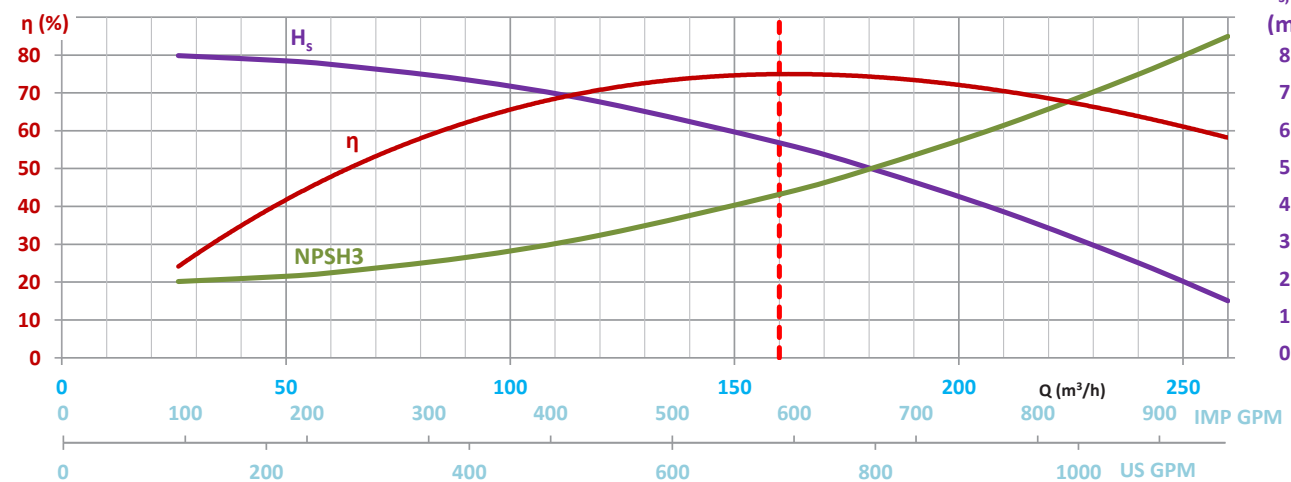
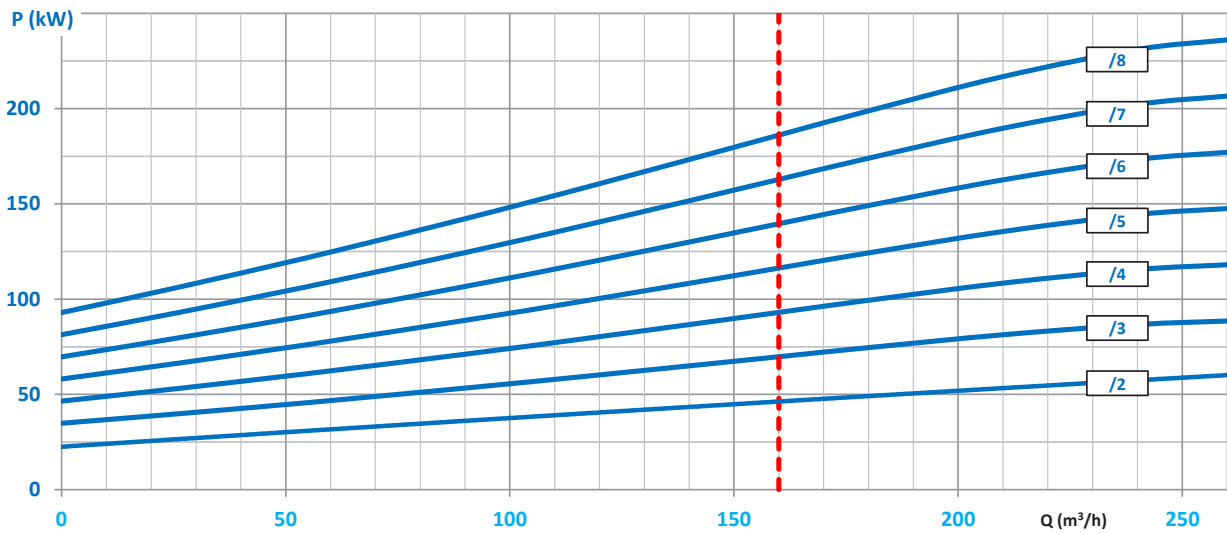
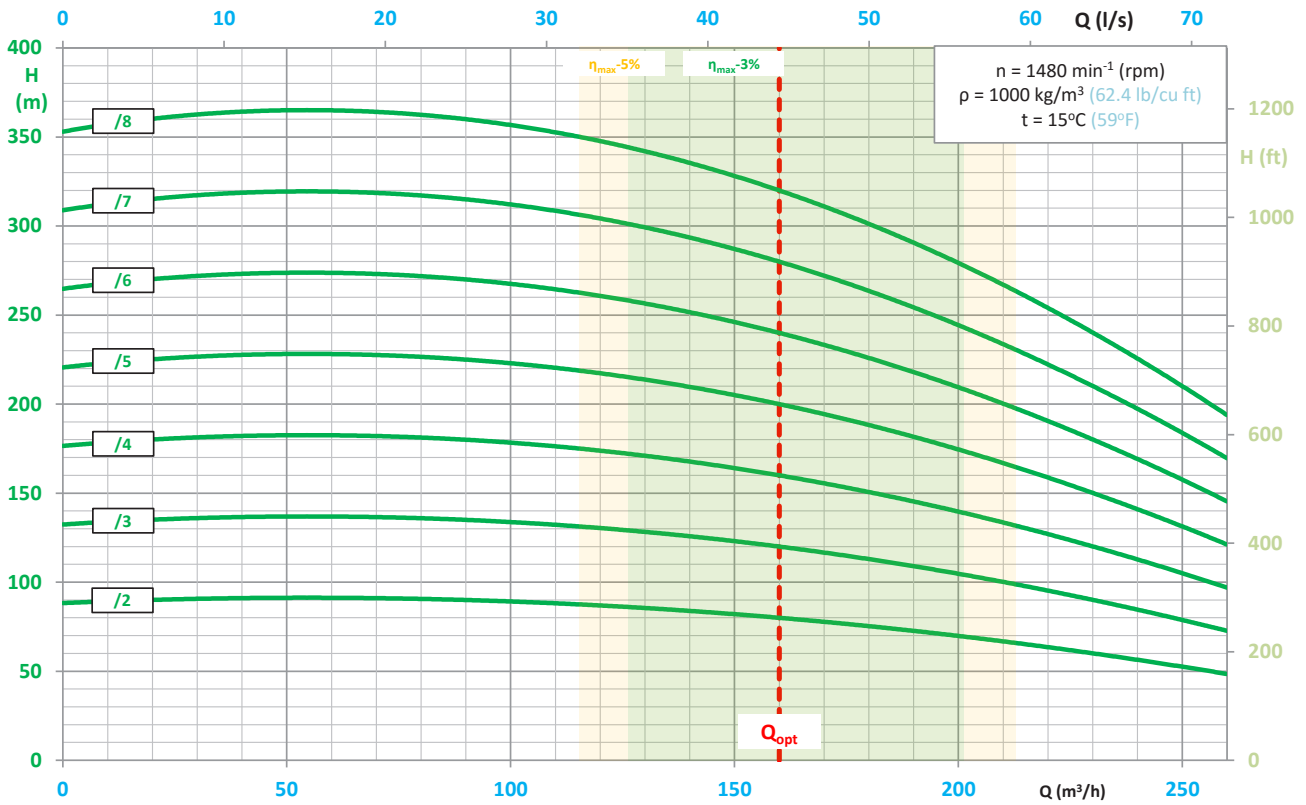
## PUMP PERFORMANCE CURVE



| H <sub>s</sub> , NPSH3 (m) | (ft) |
|----------------------------|------|
| 8                          | 26.2 |
| 7                          | 23.0 |
| 6                          | 19.7 |
| 5                          | 16.4 |
| 4                          | 13.1 |
| 3                          | 9.8  |
| 2                          | 6.6  |
| 1                          | 3.3  |
| 0                          | 0    |

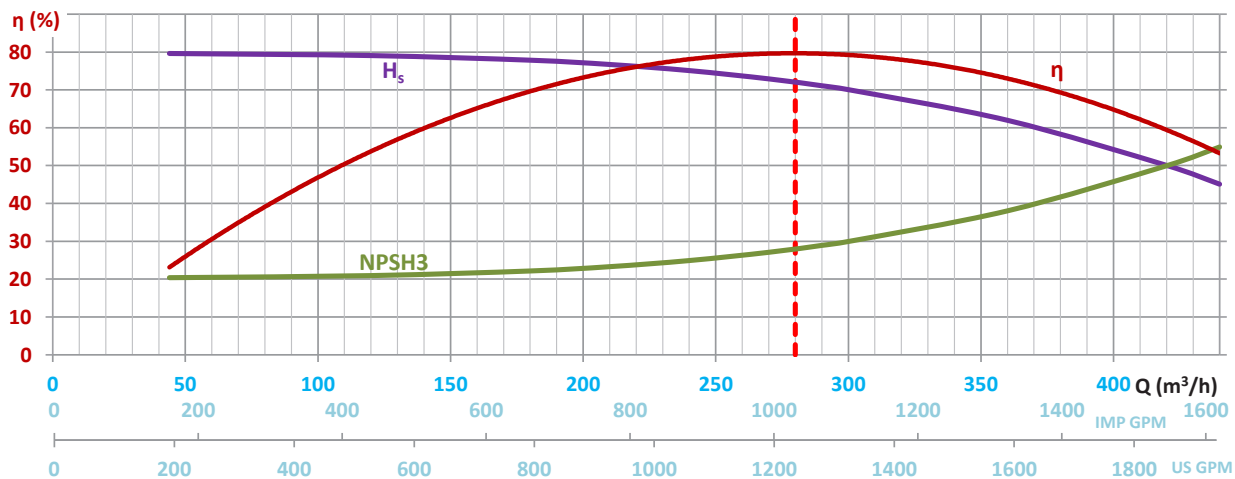
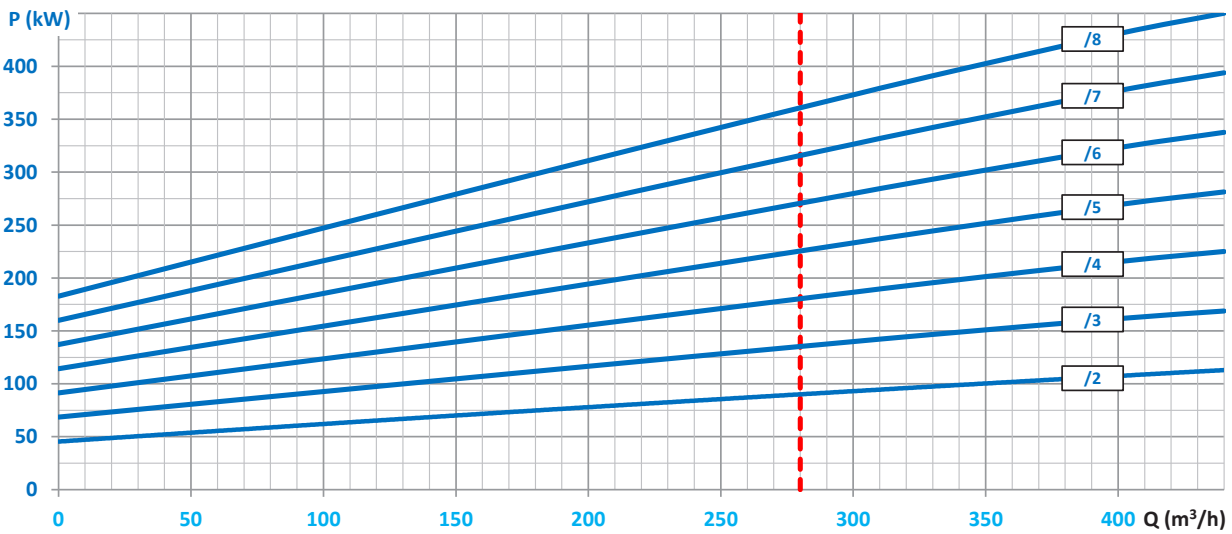
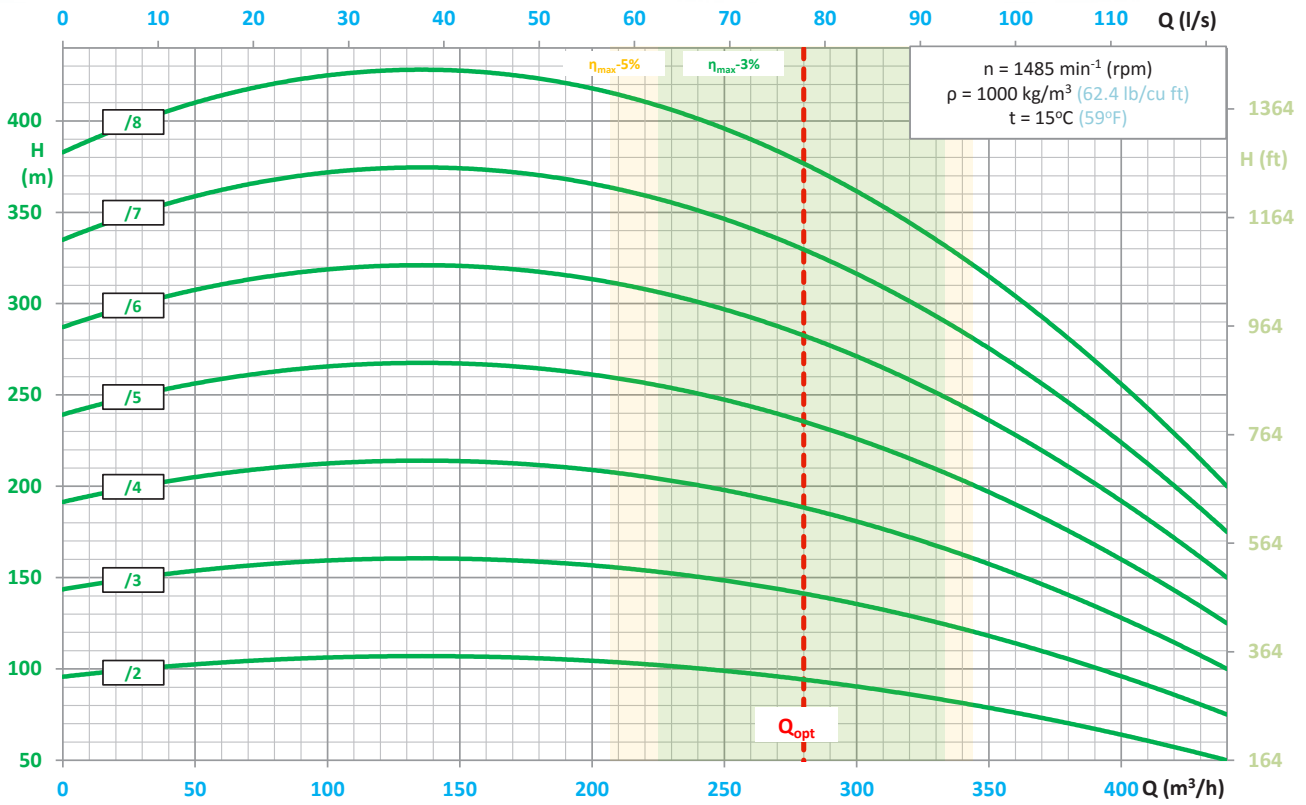
# WPS-150M

## PUMP PERFORMANCE CURVE



# WPS-200M

## PUMP PERFORMANCE CURVE

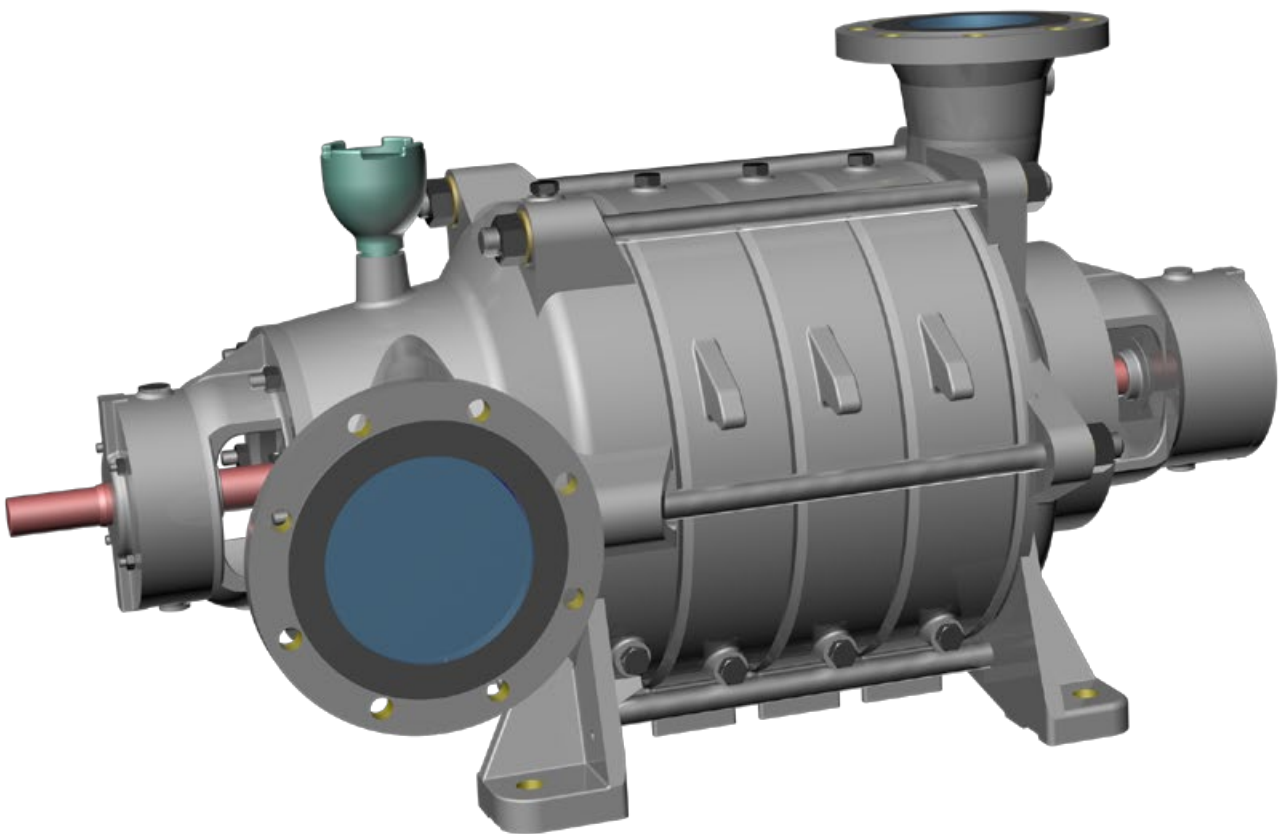


| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |

# PS-Z

## MEDIUM PRESSURE PUMP

**Type BB4**



PS-Z medium pressure pumps are intended for pumping pure or mechanically contaminated water with solids with the grain size of up to 2 mm (5/64 inch). In mining they are used for longwall and auxiliary dewatering.

In terms of connection dimensions (spacing of screws fixing the pump to the frame and diameters of the inlet and pumping connector pipes), PS-Z pumps are fully interchangeable with the pumps intended for auxiliary dewatering used so far.

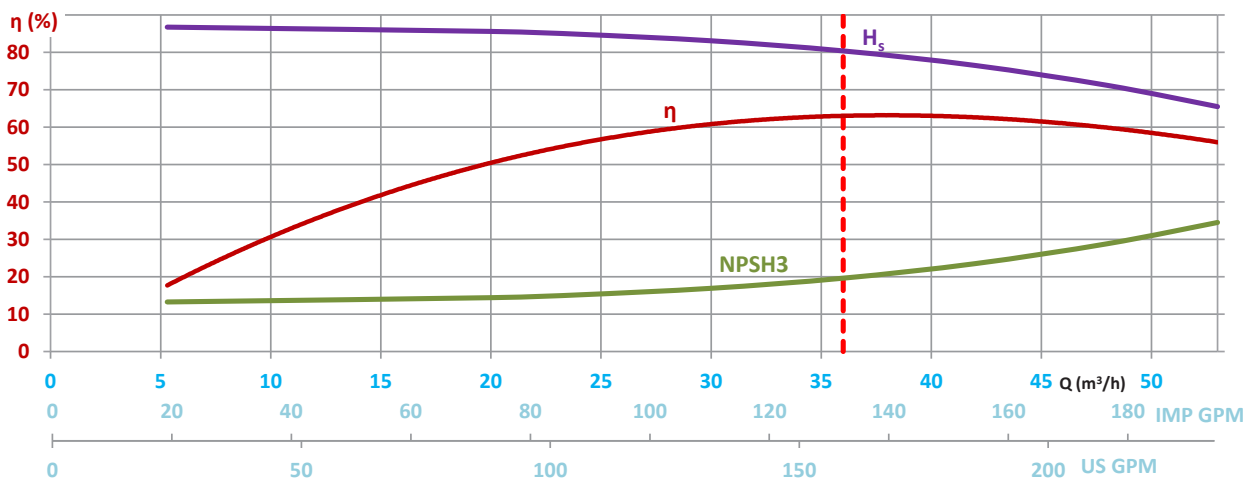
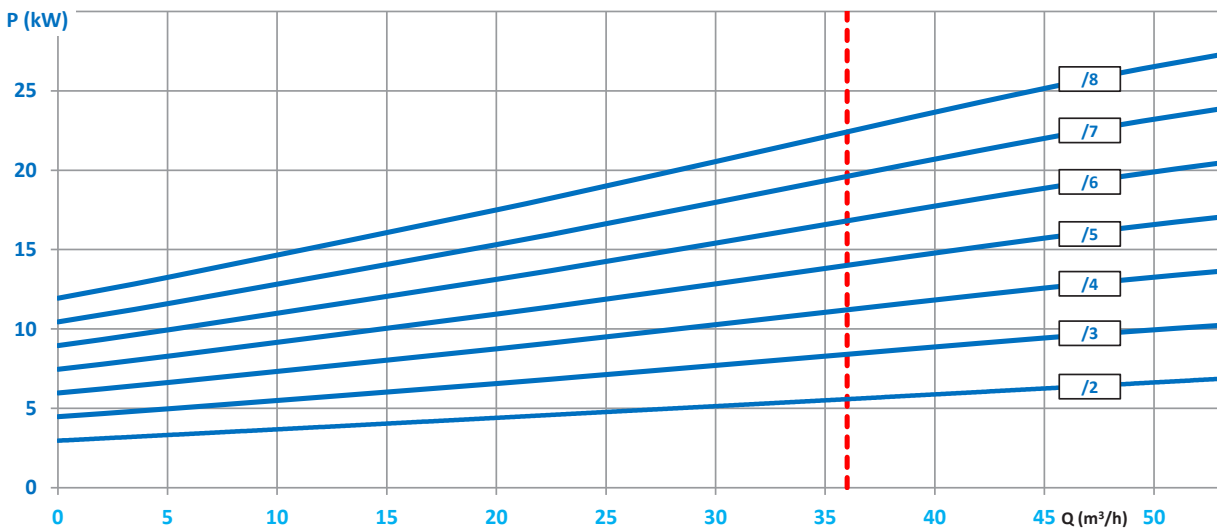
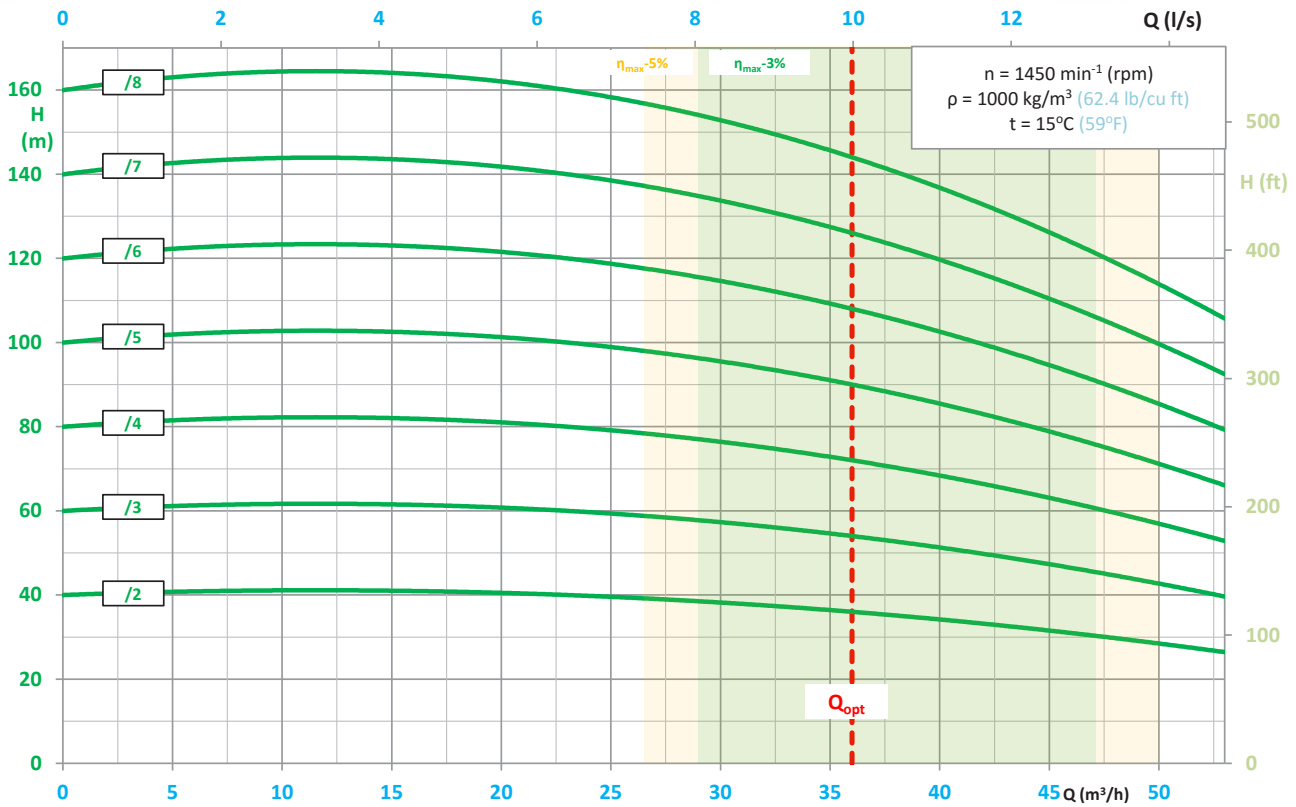
All PS-Z pumps are approved for operation in explosion-hazard zones – ATEX Ex I M2.

For new applications, it is recommended to use a newer design of pumps, i.e. WPS or WPS-M.



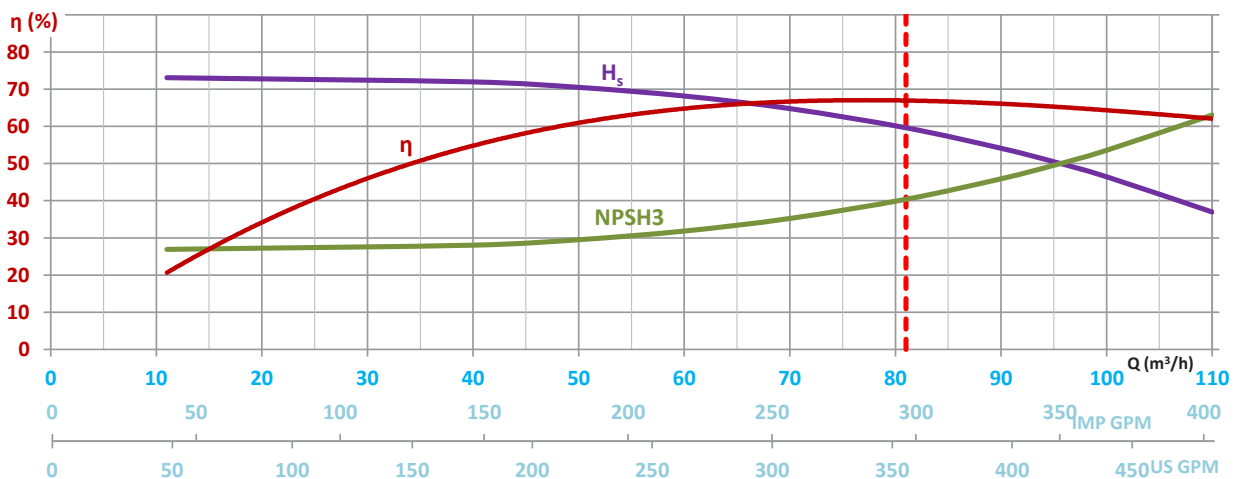
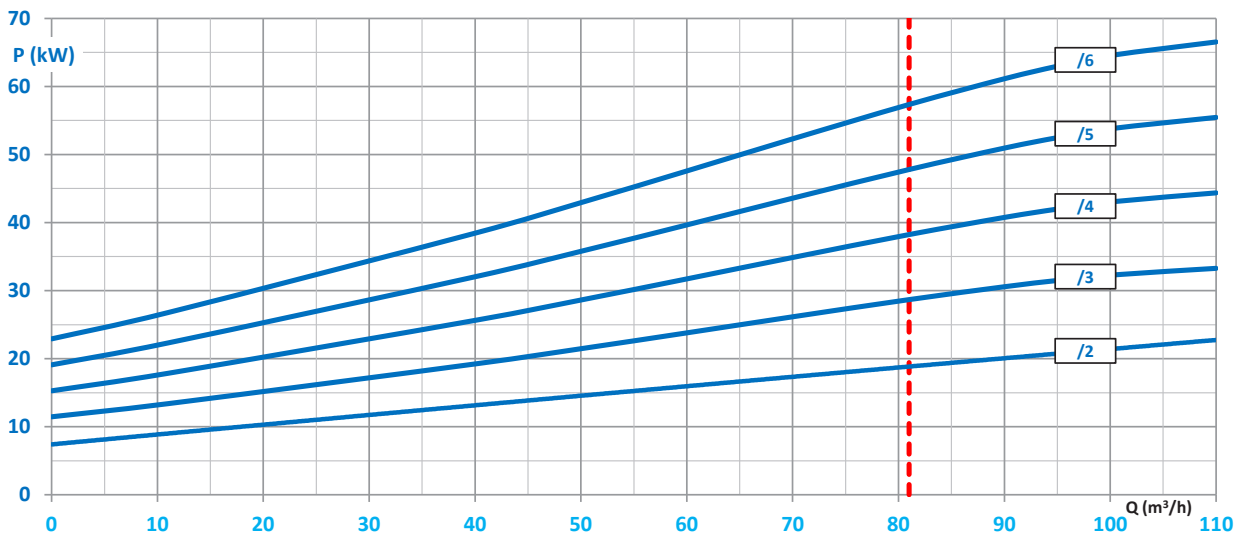
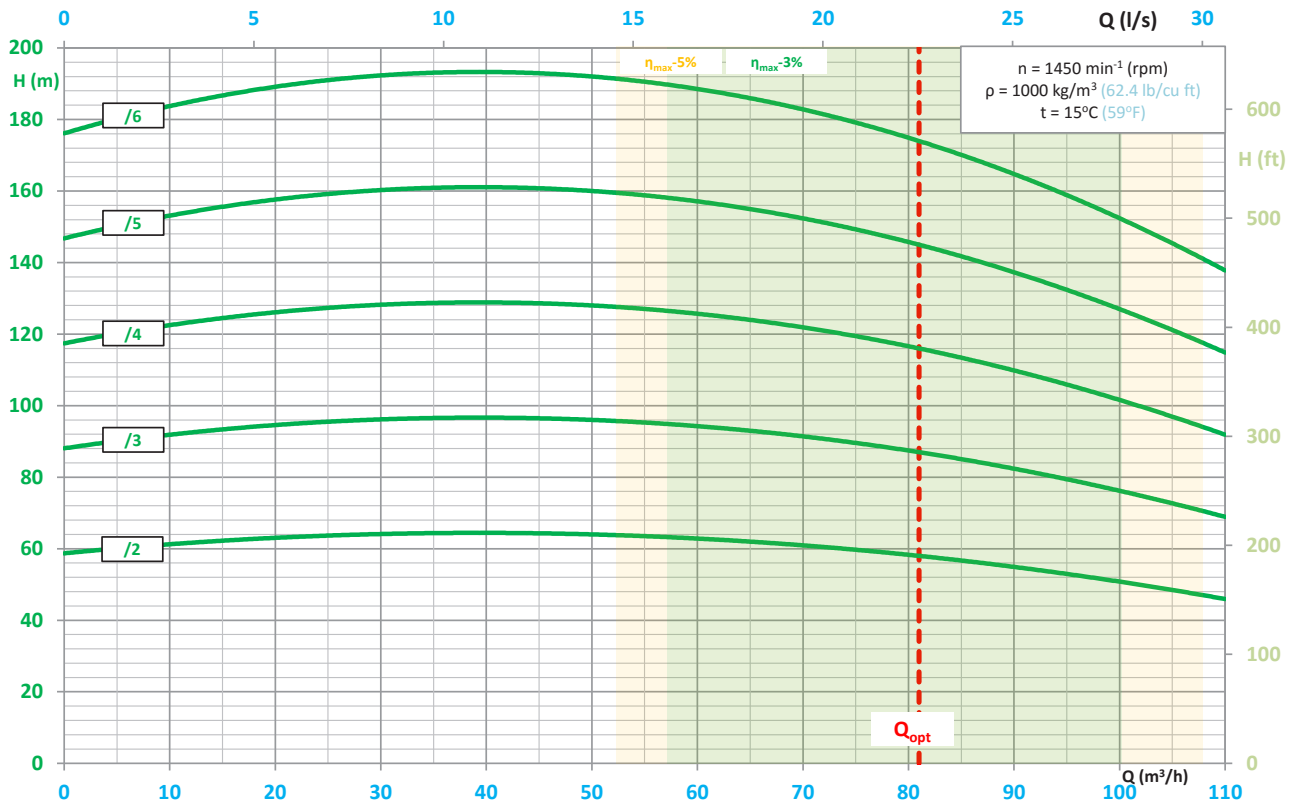
# PS-80Z

## PUMP PERFORMANCE CURVE



# PS-100Z

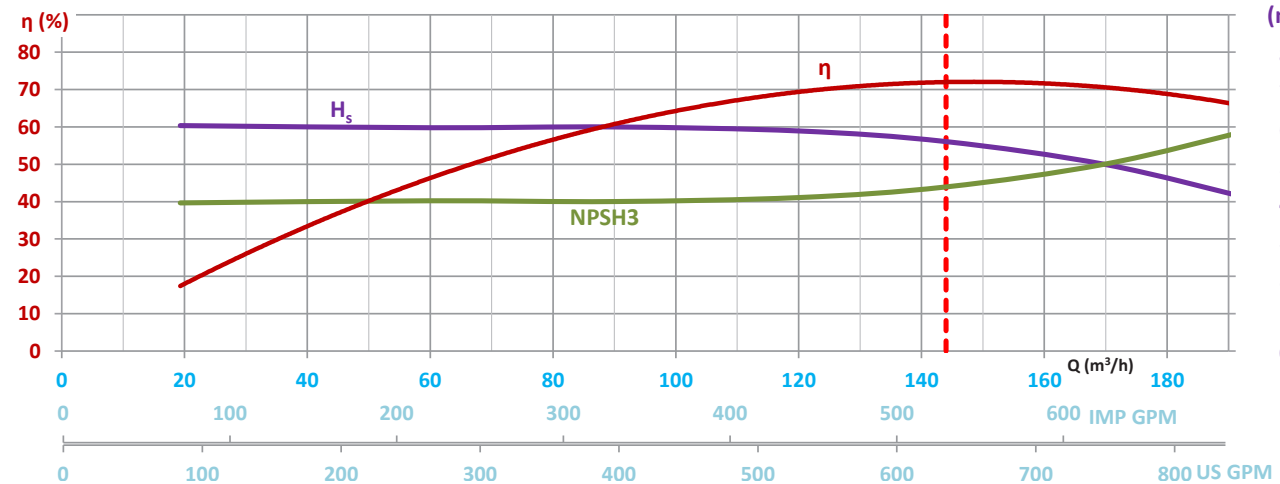
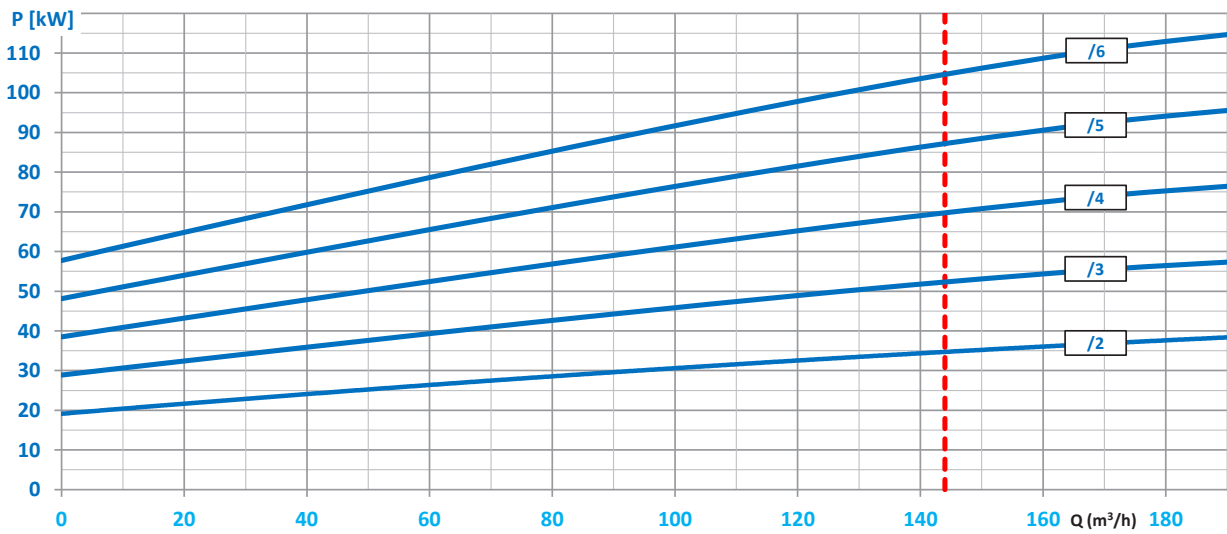
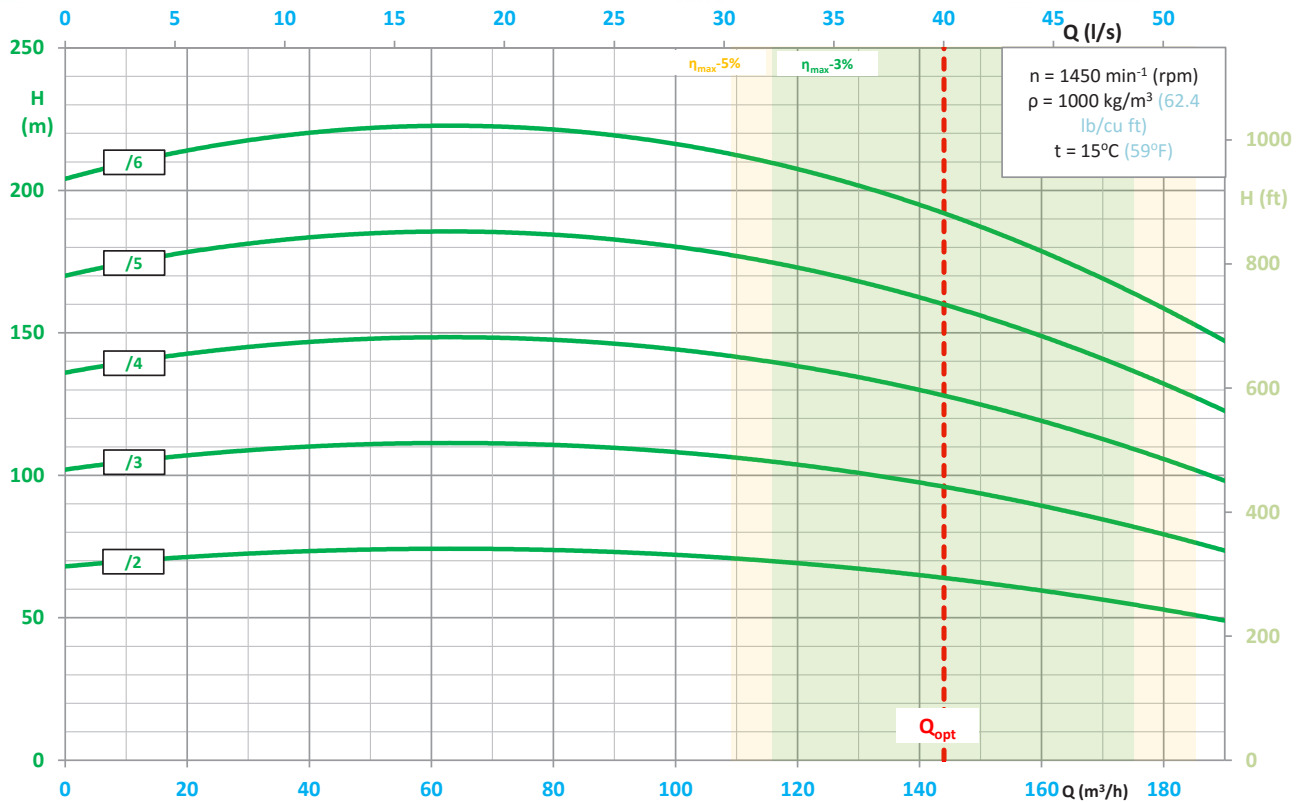
## PUMP PERFORMANCE CURVE



| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |

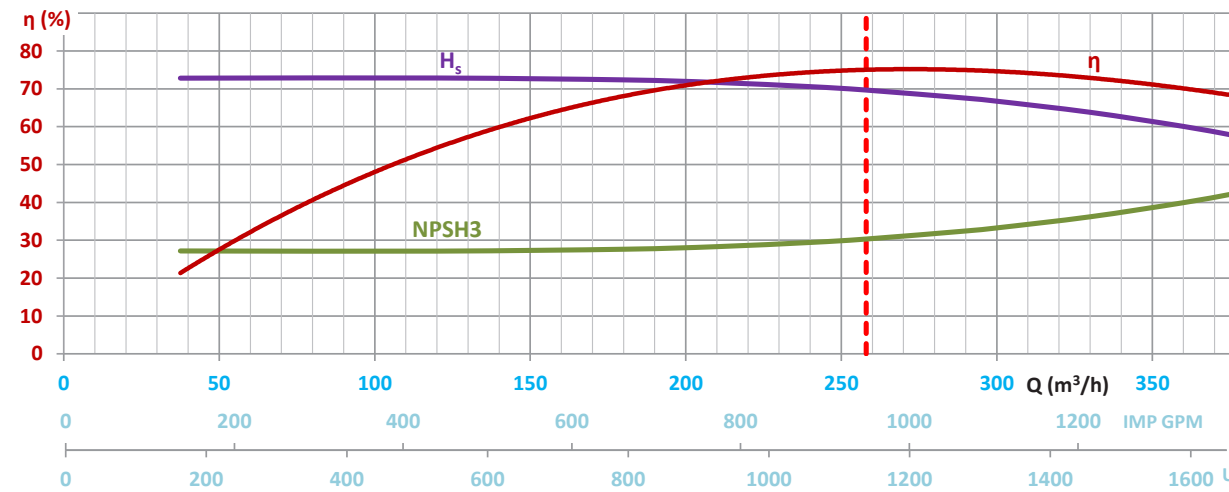
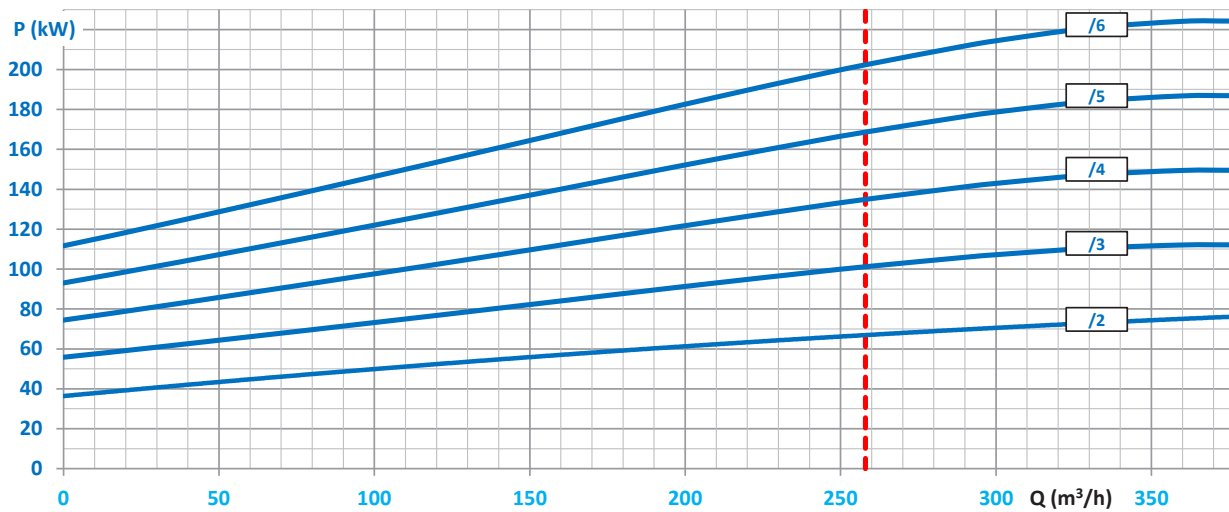
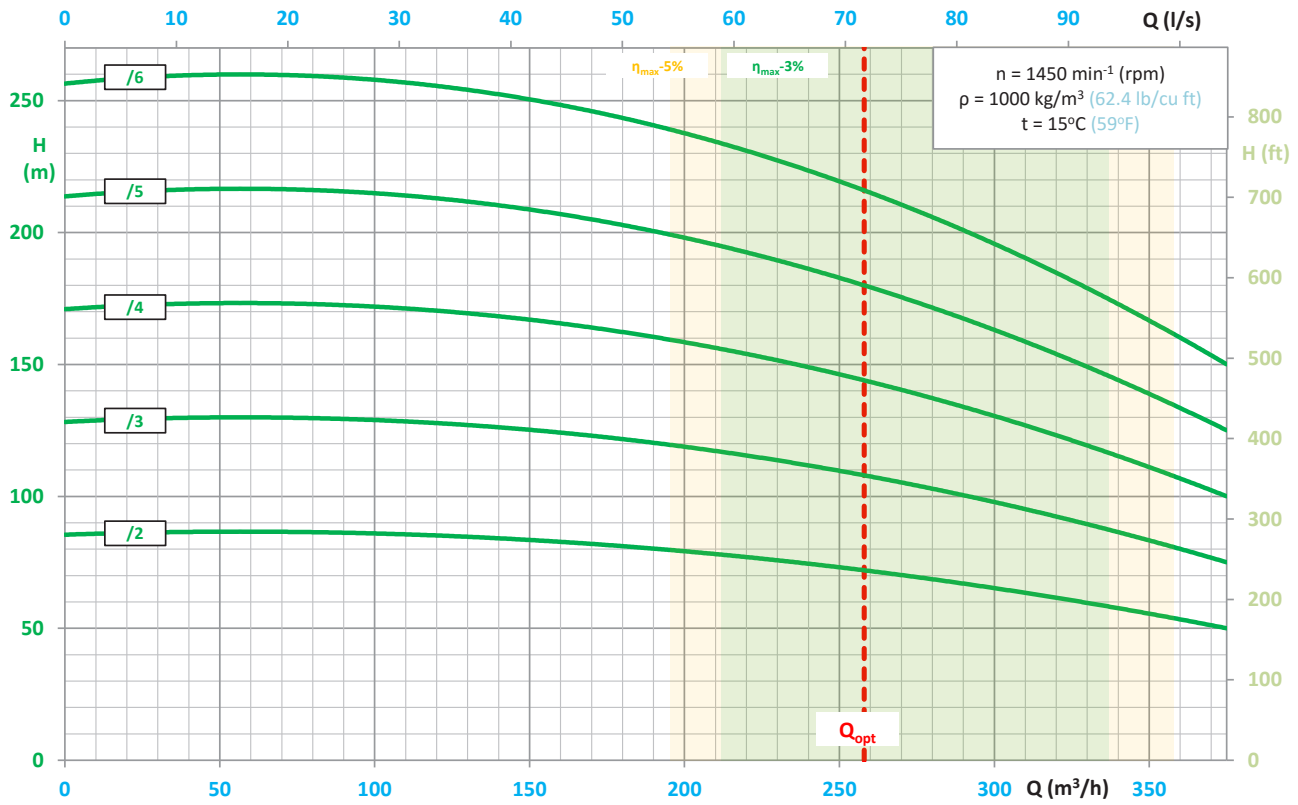
# PUMP PERFORMANCE CURVE

# PS-150Z



# PS-200Z

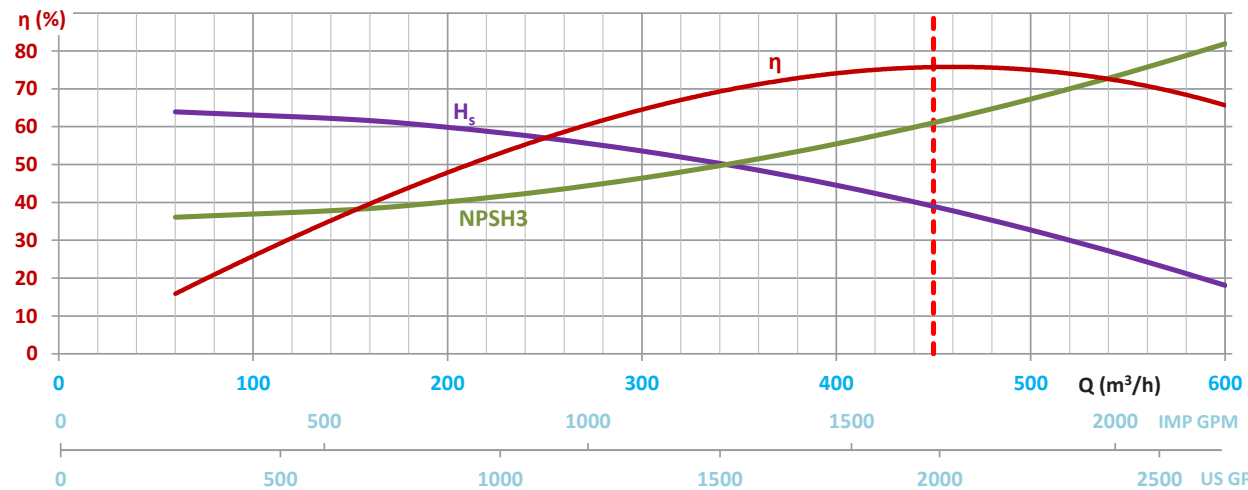
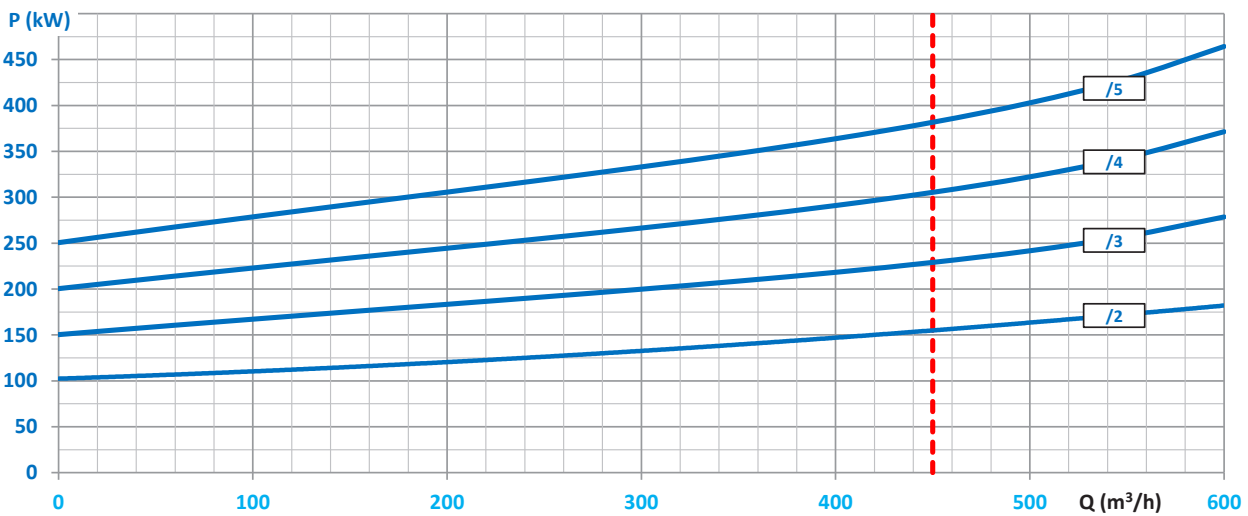
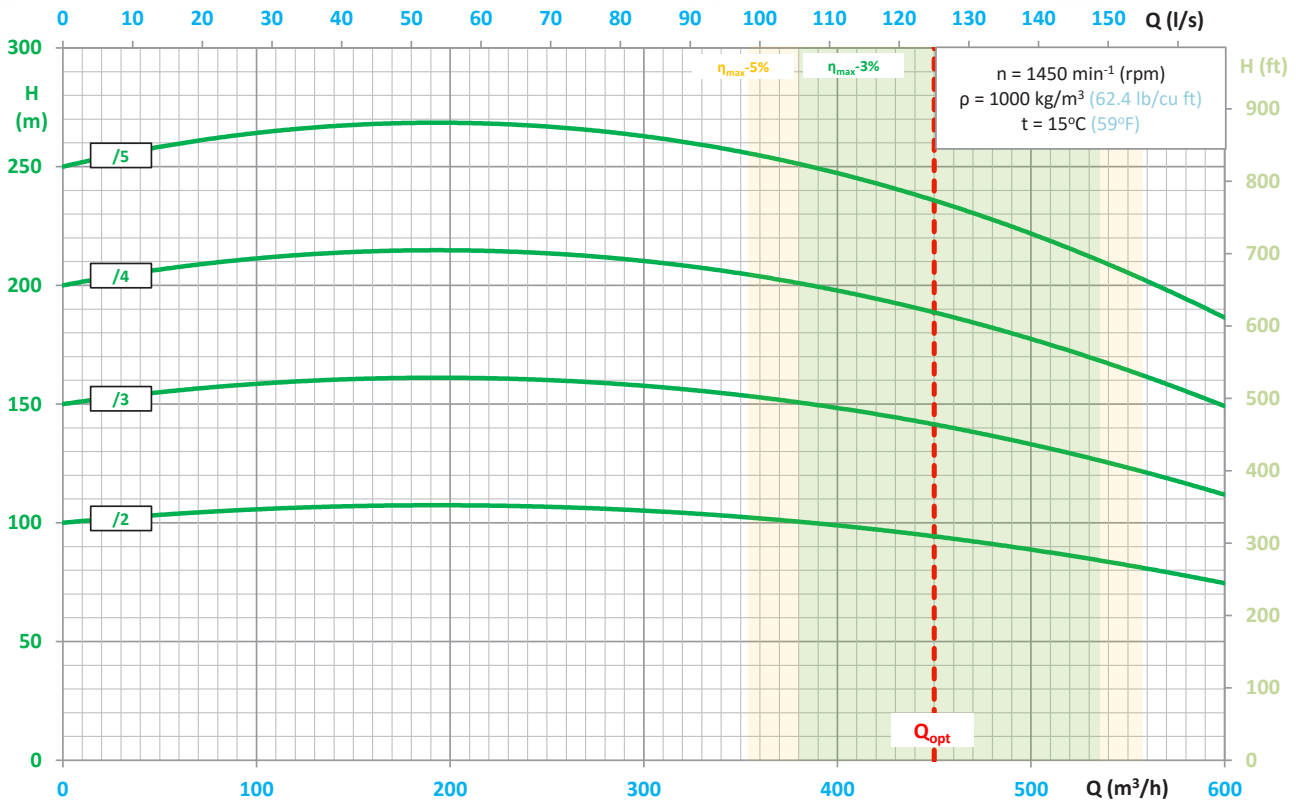
## PUMP PERFORMANCE CURVE



| H <sub>s</sub> , NPSH3 (m) | (ft) |
|----------------------------|------|
| 8                          | 26.2 |
| 7                          | 23.0 |
| 6                          | 19.7 |
| 5                          | 16.4 |
| 4                          | 13.1 |
| 3                          | 9.8  |
| 2                          | 6.6  |
| 1                          | 3.3  |
| 0                          | 0    |

# PS-250Z

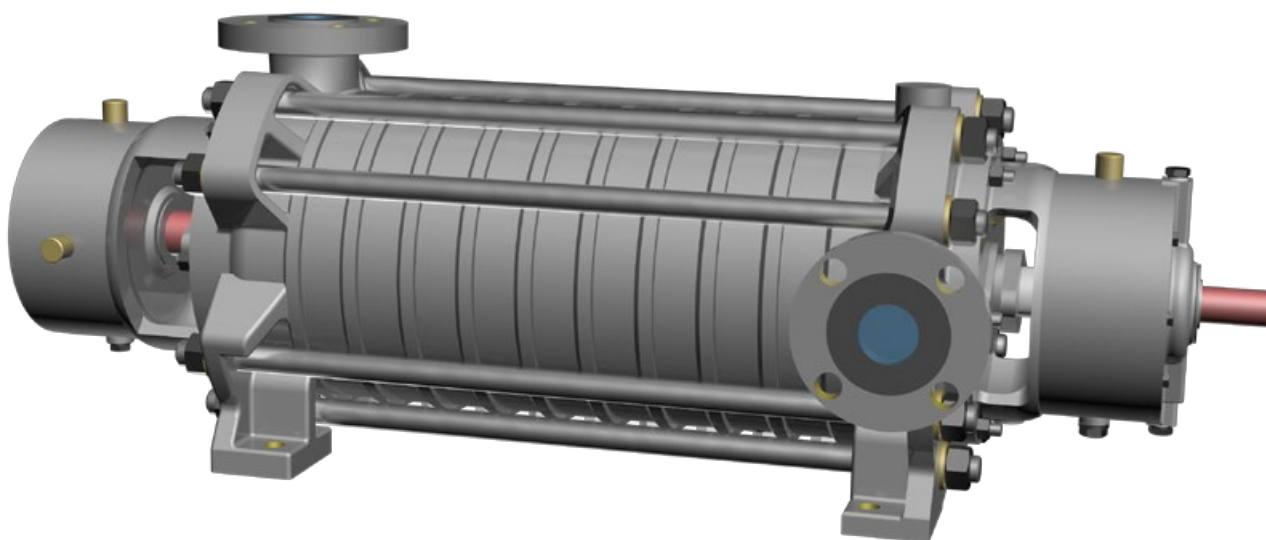
## PUMP PERFORMANCE CURVE



# WPZ-50

## IMPELLER FEED PUMP

**Type BB4**



### TYPICAL APPLICATIONS

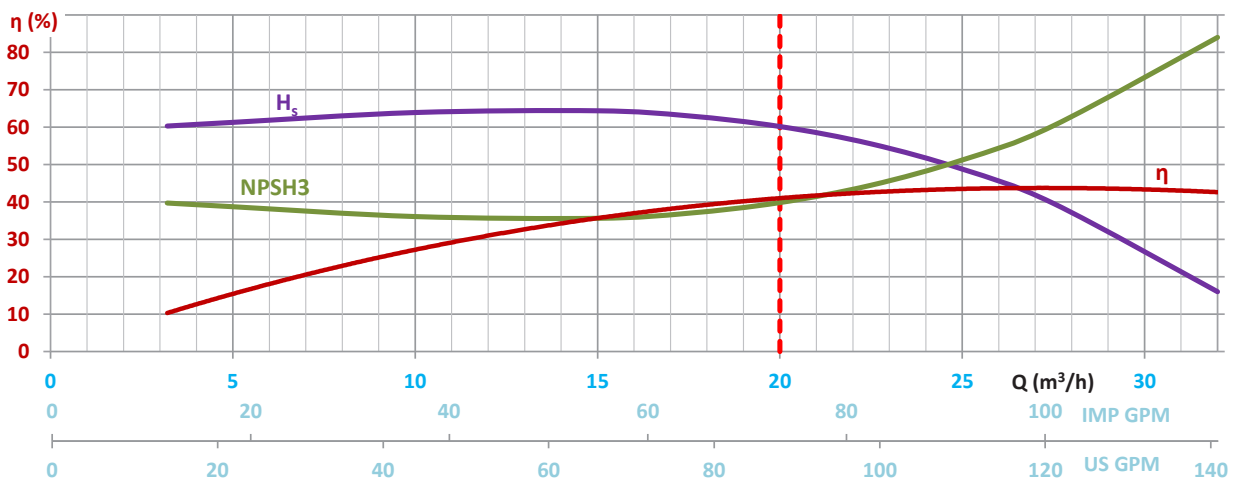
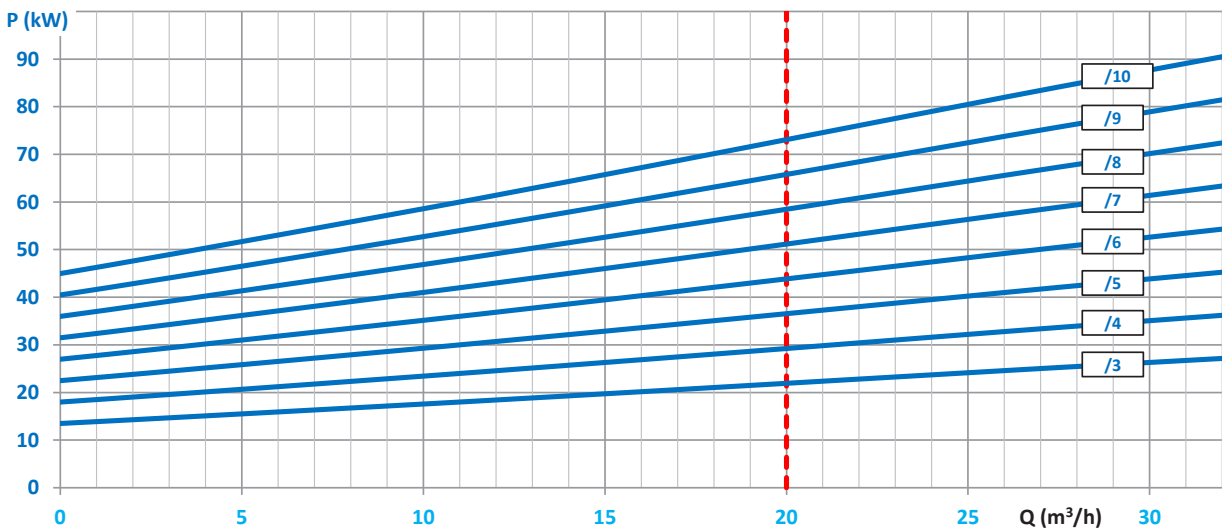
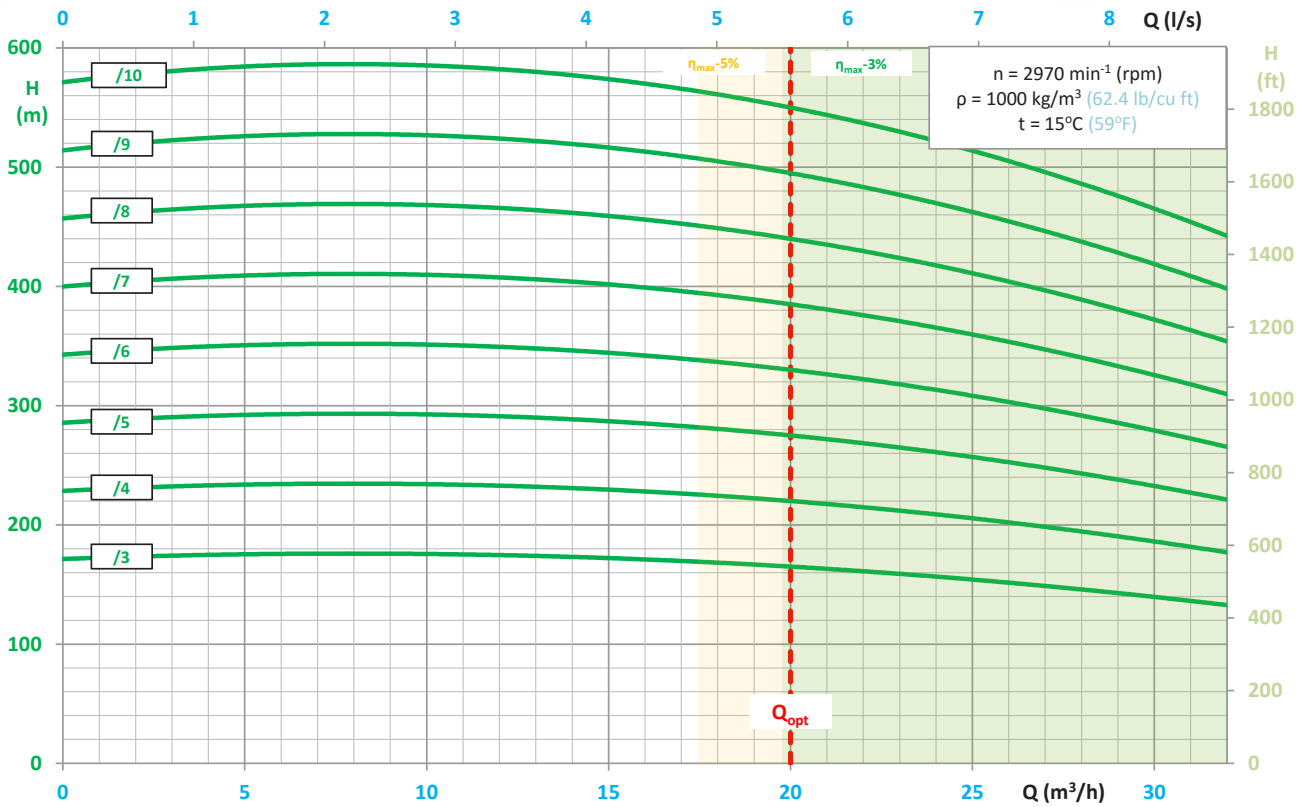
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm (5/64 inch),
- mining – spraying systems of the mining head,
- pressure boosting,
- technological processes,
- industrial systems,
- filtration systems.

### KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- silent and smooth operation,
- inflow and suction operation,
- compact and modern design,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

# WPZ-50

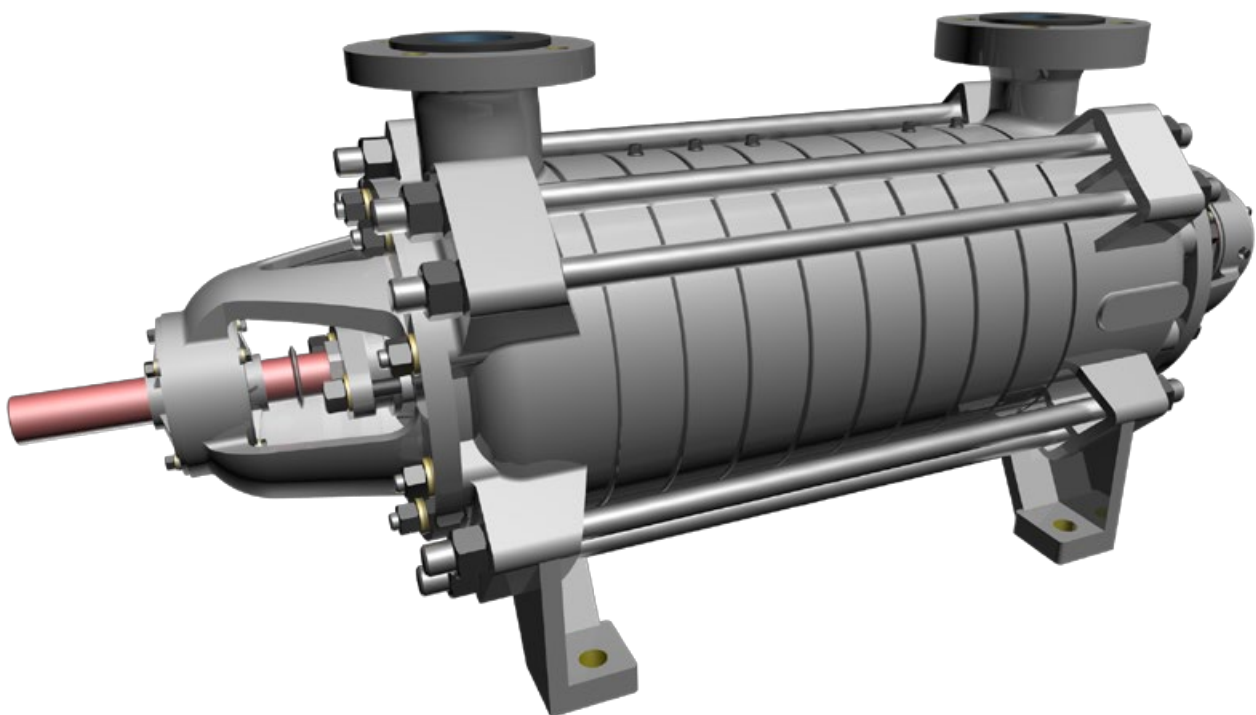
## PUMP PERFORMANCE CURVE



# Veloxos

IMPELLER FEED PUMP

**Type BB4**





## TYPICAL APPLICATIONS

- pumping of pure water or slightly contaminated,
- district heating – boiler feedwater, boiler cleaning,
- energy – condensate pumping,
- papermaking – sieves cleaning,
- sugar factory – sieves cleaning,
- food industry – supply of steam generators,
- coking plant – ammonia water pumping, injectors supply,
- other industrial systems in which fluid parameters are similar to water with pH 6÷10.

## KEY ADVANTAGES

- light and compact design,
- silent and smooth operation,
- temperature of pumped liquid can be up to 150°C (302°F),
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

## NOMINAL OPERATION PARAMETERS AT PURE WATER PUMPING

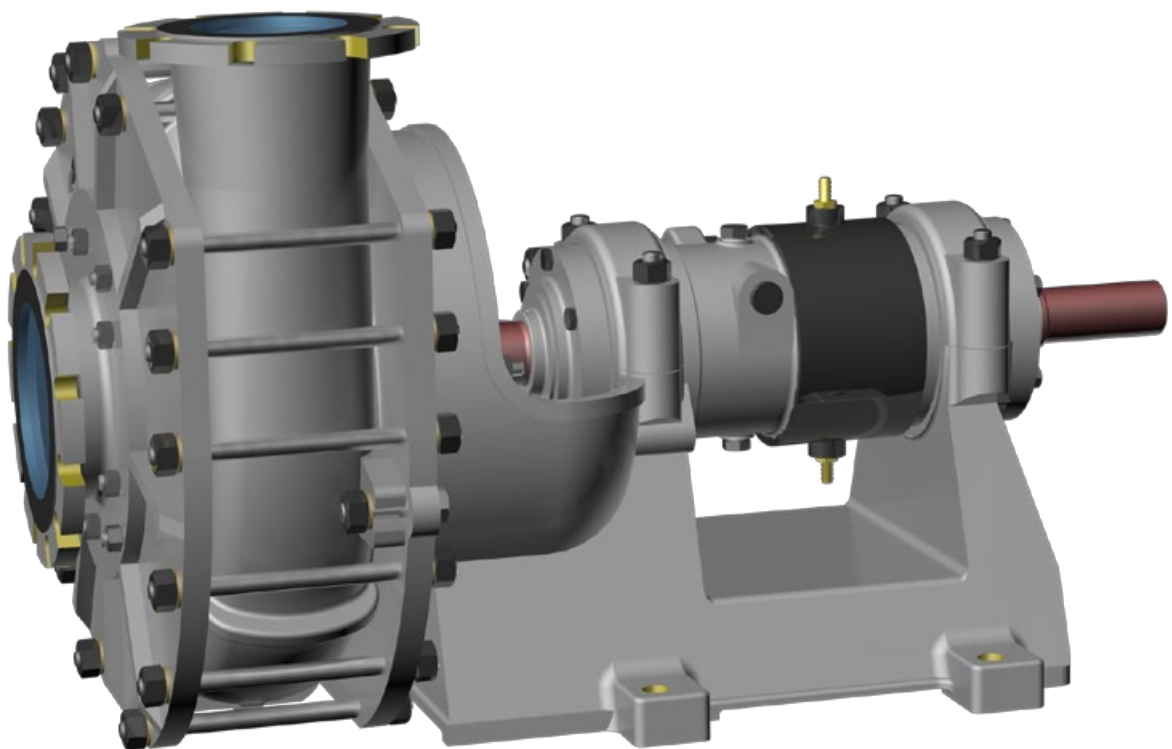
|              | Q <sub>n</sub>    |      |         |        | n       |
|--------------|-------------------|------|---------|--------|---------|
|              | m <sup>3</sup> /h | l/s  | IMP GPM | US GPM | [r/min] |
| Veloxos - 50 | 27                | 7,5  | 118,9   | 99,1   | 3000    |
| Veloxos - 65 | 45                | 12,5 | 198,1   | 165,2  | 3000    |
| Veloxos - 80 | 75                | 20,8 | 330,2   | 275,3  | 3000    |

|              |    | Number of stages |     |     |     |      |      |      |      |      |      |      |      |      |      |
|--------------|----|------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|
|              |    | 2                | 3   | 4   | 5   | 6    | 7    | 8    | 9    | 10   | 11   | 12   | 13   | 14   | 15   |
| Veloxos - 50 | m  | 80               | 120 | 160 | 200 | 240  | 280  | 320  | 360  | 400  | 440  | 480  | 520  | 560  | 600  |
|              | ft | 262              | 394 | 525 | 656 | 787  | 919  | 1050 | 1181 | 1312 | 1444 | 1575 | 1706 | 1837 | 1968 |
| Veloxos - 65 | m  | 80               | 120 | 160 | 200 | 240  | 280  | 320  | 360  | 400  | 440  | 480  | 520  | 560  | 600  |
|              | ft | 262              | 394 | 525 | 656 | 787  | 919  | 1050 | 1181 | 1312 | 1444 | 1575 | 1706 | 1837 | 1968 |
| Veloxos - 80 | m  | 120              | 180 | 240 | 300 | 360  | 420  | 480  | 450  | 600  | 660  | 720  | -    | -    | -    |
|              | ft | 394              | 591 | 787 | 984 | 1181 | 1387 | 1575 | 1772 | 1968 | 2165 | 2362 | -    | -    | -    |

# WPJ

## SINGLE-STAGE HYDROTRANSPORT IMPELLER PUMP

**Type 0H1**



## TYPICAL APPLICATIONS

- with large grains and highly abrasive properties,
- pumping mixtures of water and quartz sand, ores, coal, slag, ash, etc.,
- mining – WPJ pumps intended to replace hydrotransport drainage pumps used so far,
- water supply systems,
- pressure boosting,
- technological processes,
- industrial systems,
- hydrocyclons,
- filtration systems.

## KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- possibility of operation with a frequency converter,
- possibility of serial operation,
- the pumped mixture density can reach  $\rho_{\max} = 1700 \text{ kg/m}^3$  (106,1 lb/cu ft) while pumping mixtures with a 50% content of solids in water,
- pumping mixture with density up to  $\rho = 2200 \text{ kg/m}^3$  (137,3 lb/cu ft) by grain size up to 2 mm (5/64 inch) and low RPM,
- silent and smooth operation connection dimensions in compliance with hydrotransport pumps,
- inflow and suction operation,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

|             | Max. permissible size of solids | Smallest flow cross-section |
|-------------|---------------------------------|-----------------------------|
| WPJ - 100   | 14 mm / 0,6 in                  | 20 mm / 0,8 in              |
| WPJ - 150   | 42 mm / 1,7 in                  | 60 mm / 2,4 in              |
| WPJ - 150-R | 55 mm / 2,2 in                  | 60 mm / 2,4 in              |
| WPJ - 200   | 57 mm / 2,2 in                  | 80 mm / 3,1 in              |
| WPJ - 250   | 54 mm / 2,1 in                  | 80 mm / 3,1 in              |

## NOMINAL OPERATION PARAMETERS AT PURE WATER PUMPING (for the maximum rotational speed and the biggest impeller)

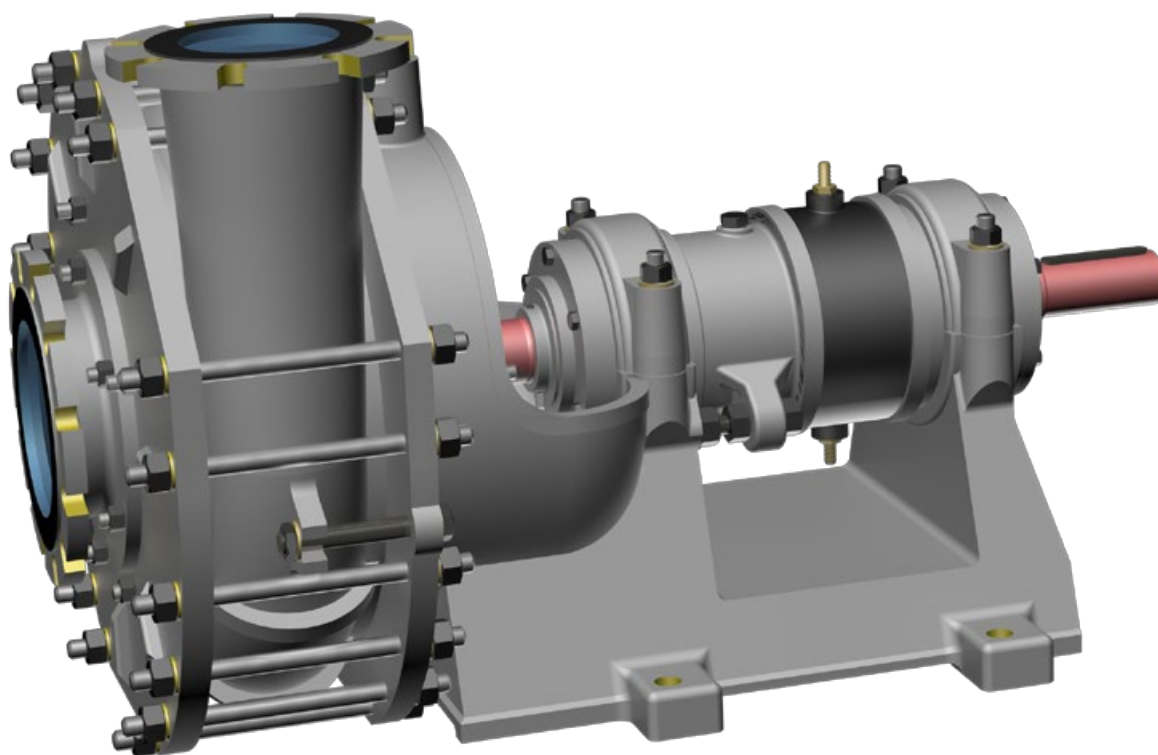
| Pump type   | $Q_n$             |       |         |        | $H_n$ |     | $n$  | $D_z$ |      | $P_n$ | $m$  |      |
|-------------|-------------------|-------|---------|--------|-------|-----|------|-------|------|-------|------|------|
|             | m <sup>3</sup> /h | l/s   | IMP GPM | US GPM | m     | ft  | rmp  | mm    | in   | kW    | kg   | lb   |
| WPJ - 100   | 130               | 36,1  | 572     | 477    | 42    | 138 | 1470 | 370   | 14,6 | 21    | 420  | 926  |
| WPJ - 150   | 360               | 100   | 1585    | 1321   | 69    | 226 | 1480 | 450   | 17,7 | 92    | 755  | 1664 |
| WPJ - 150-R | 360               | 100   | 1585    | 1321   | 69    | 226 | 1480 | 450   | 17,7 | 92    | 755  | 1664 |
| WPJ - 200   | 500               | 138,9 | 2202    | 1835   | 90    | 295 | 1485 | 526   | 20,7 | 190   | 1030 | 2271 |
| WPJ - 250   | 1000              | 277,8 | 4403    | 3670   | 100   | 328 | 1485 | 580   | 22,8 | 371   | 1800 | 3968 |

The pump construction makes it possible to reduce the operation parameters via a reduction in revolutions and/or a reduction in the impeller diameter, thus adjusting the pump to the system without the need for throttling.

# PHZ

HYDROTRANSPORT PUMP

**Type 0H1**



## TYPICAL APPLICATIONS

- with large grains and highly abrasive properties,
- pumping mixtures of water and quartz sand, ores, coal, slag, ash, etc.,
- mining – PHZ pumps intended to replace hydrotransport drainage pumps used so far,
- water supply systems,
- pressure boosting,
- technological processes,
- industrial systems,
- hydrocyclons,
- filtration systems.

## KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- possibility of operation with a frequency converter,
- possibility of serial operation,
- the pumped mixture density can reach  $\rho_{\max} = 1700 \text{ kg/m}^3$  (106,1 lb/cu ft) while pumping mixtures with a 50% content of solids in water,
- pumping mixture with density up to  $\rho = 2200 \text{ kg/m}^3$  (137,3 lb/cu ft) by grain size up to 2 mm (5/64 inch) and low RPM,
- silent and smooth operation connection dimensions in compliance with hydrotransport pumps,
- inflow and suction operation,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

|           | Max. permissible size of solids |
|-----------|---------------------------------|
| PHZ - 100 | 14 mm / 0,6 in                  |
| PHZ - 150 | 42 mm / 1,7 in                  |
| PHZ - 200 | 50 mm / 2,0 in                  |
| PHZ - 250 | 52 mm / 2,0 in                  |
| PHZ - 300 | 50 mm / 2,0 in                  |

## NOMINAL OPERATION PARAMETERS AT PURE WATER PUMPING (for the maximum rotational speed and the biggest impeller)

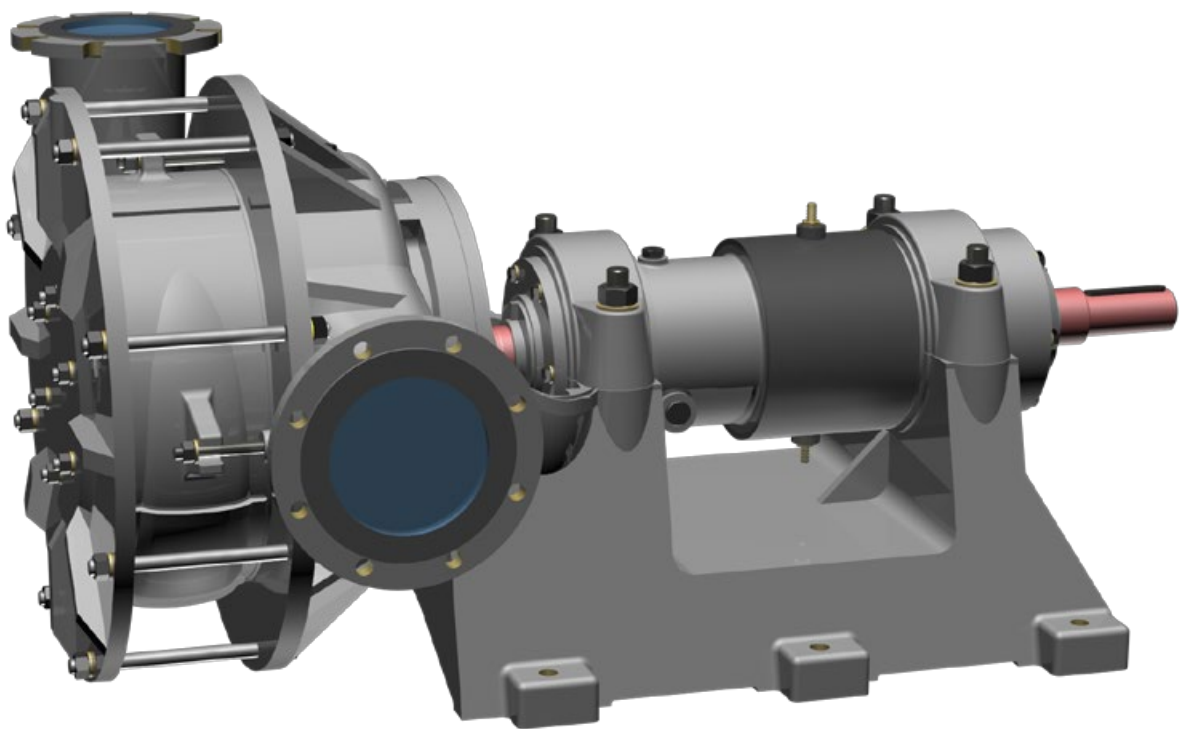
| Pump type | $Q_n$             |       |         |        | $H_n$ |     | n<br>rpm | $D_z$ |       | $P_n$<br>kW | m    |      |
|-----------|-------------------|-------|---------|--------|-------|-----|----------|-------|-------|-------------|------|------|
|           | m <sup>3</sup> /h | l/s   | IMP GPM | US GPM | m     | ft  |          | mm    | in    |             | kg   | lb   |
| PHZ - 100 | 125               | 34,7  | 550     | 459    | 40    | 131 | 1600     | 332   | 13,1  | 21          | 359  | 791  |
| PHZ - 150 | 315               | 87,5  | 1387    | 1156   | 63    | 207 | 1450     | 440   | 17,3  | 75          | 720  | 1587 |
| PHZ - 200 | 500               | 138,9 | 2202    | 1835   | 80    | 262 | 1450     | 504   | 19,8  | 168         | 1230 | 2712 |
| PHZ - 250 | 960               | 266,7 | 4227    | 3523   | 90    | 295 | 1450     | 570   | 22,44 | 308         | 1522 | 3355 |
| PHZ - 300 | 1400              | 388,9 | 6164    | 5138   | 73    | 239 | 980      | 725   | 28,5  | 357         | 2646 | 5833 |

The pump construction makes it possible to reduce the operation parameters via a reduction in revolutions and/or a reduction in the impeller diameter, thus adjusting the pump to the system without the need for throttling.

# WPCC

HEAVY DUTY IMPELLER PUMP

**Type 0H1**



## TYPICAL APPLICATIONS

- pumping mixtures of water and solids,
- with large grains and highly abrasive properties,
- pumping mixtures of water and quartz sand,
- ores, coal, slag, ash,
- mining – WPCC pumps intended to replace heavy duty pumps used so far for,
- technological processes,
- industrial systems,
- filtration systems.

## KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- possibility of operation with a frequency converter,
- possibility of serial operation,
- the pumped mixture density can reach  $\rho_{max} = 2200 \text{ kg/m}^3$  (137,3 lb/cu ft) while pumping mixtures with a 50% content of solids in water,
- silent and smooth operation connection dimensions in compliance with heavy duty pumps,
- inflow and suction operation,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

|            | Max. permissible size of solids | Smallest flow cross-section |
|------------|---------------------------------|-----------------------------|
| WPCC - 80  | 22 mm / 0,9 in                  | 34 mm / 1,3 in              |
| WPCC - 100 | 28 mm / 1,1 in                  | 40 mm / 1,6 in              |
| WPCC - 150 | 40 mm / 1,6 in                  | 68 mm / 2,7 in              |

## NOMINAL OPERATION PARAMETERS AT PURE WATER PUMPING (for the maximum rotational speed and the biggest impeller)

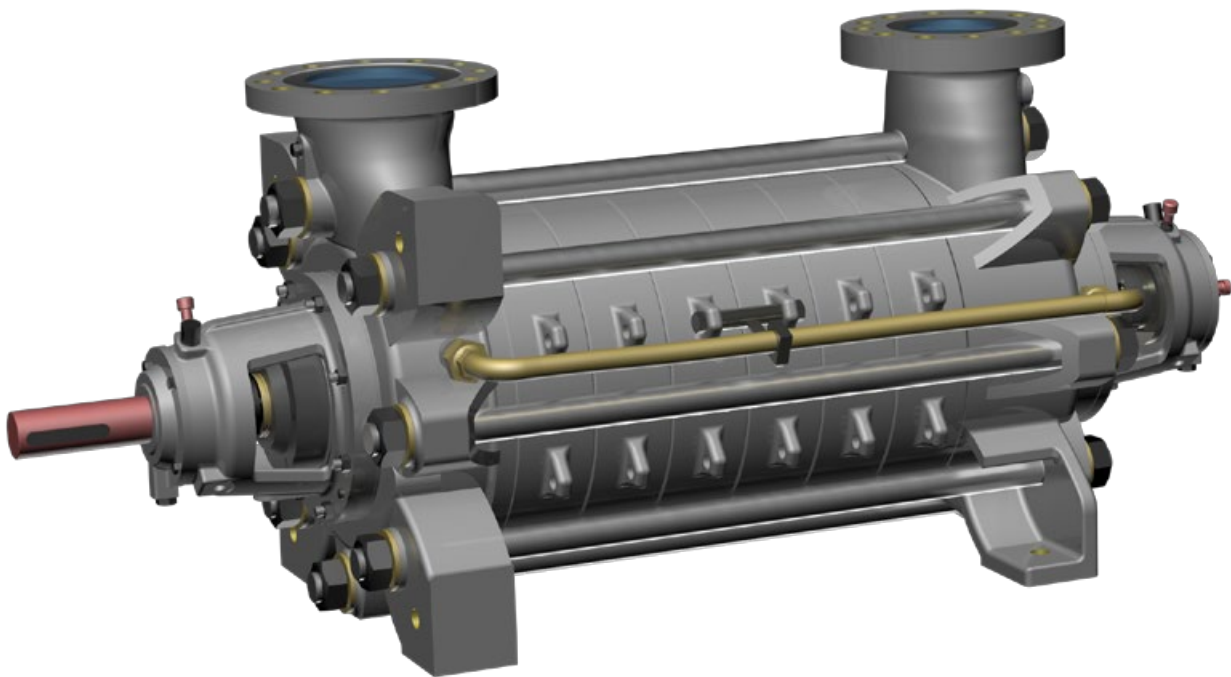
| Pump type  | $Q_n$             |      |         |        | $H_n$ |    | n<br>rpm | $D_z$ |      | $P_n$<br>kW | m   |      |
|------------|-------------------|------|---------|--------|-------|----|----------|-------|------|-------------|-----|------|
|            | m <sup>3</sup> /h | l/s  | IMP GPM | US GPM | m     | ft |          | mm    | in   |             | kg  | lb   |
| WPCC - 80  | 90                | 25,0 | 396,3   | 330,3  | 19    | 62 | 960      | 375   | 14,8 | 8,5         | 713 | 1572 |
| WPCC - 100 | 165               | 45,8 | 726,5   | 605,6  | 20,5  | 67 | 960      | 400   | 15,7 | 13,5        | 848 | 1870 |
| WPCC - 150 | 300               | 83,3 | 1320,9  | 1101   | 17    | 56 | 850      | 428   | 16,9 | 18,6        | 989 | 2180 |

The pump construction makes it possible to reduce the operation parameters via a reduction in revolutions and/or a reduction in the impeller diameter, thus adjusting the pump to the system without the need for throttling.

# SPW-150

## HIGH SPEED IMPELLER PUMP

**Type BB4**



### TYPICAL APPLICATIONS

- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm (5/64 inch),
- pressure boosting,
- technological processes,
- industrial systems,
- coal, copper, salt and other mines,
- mining – main and auxiliary dewatering.

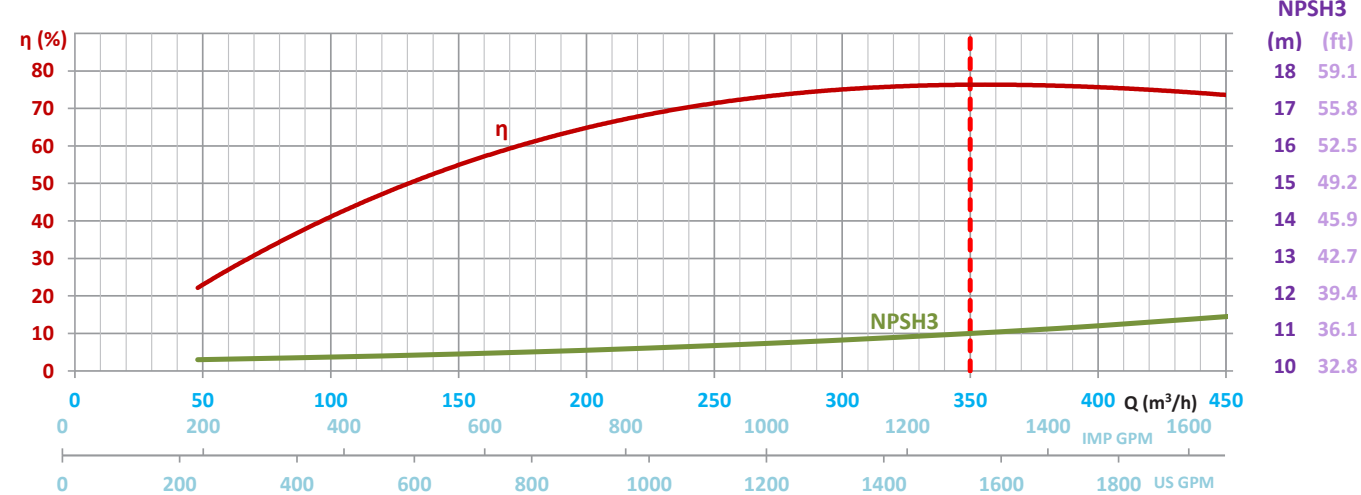
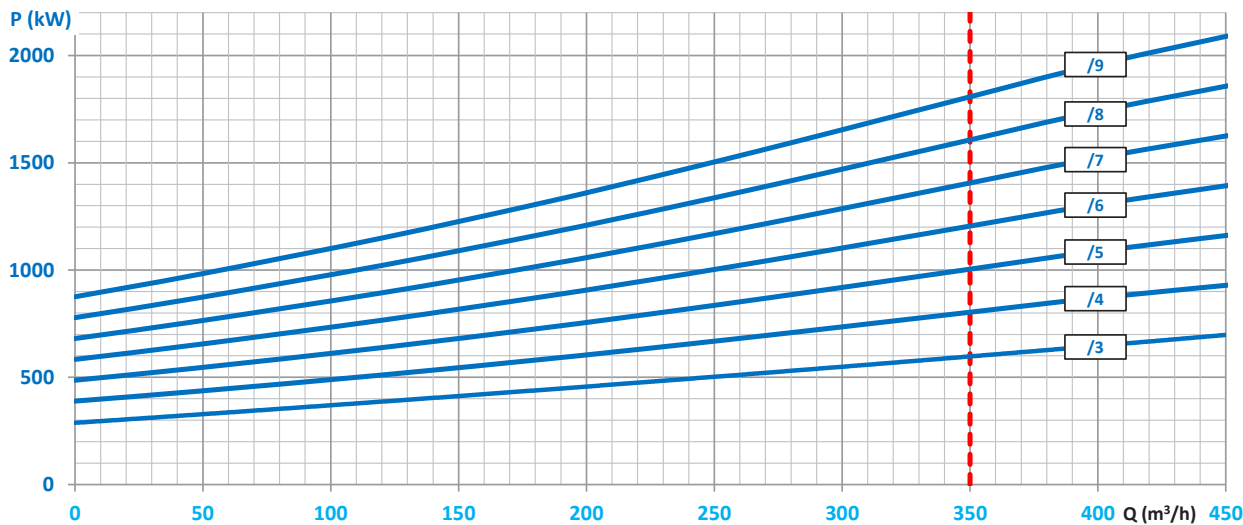
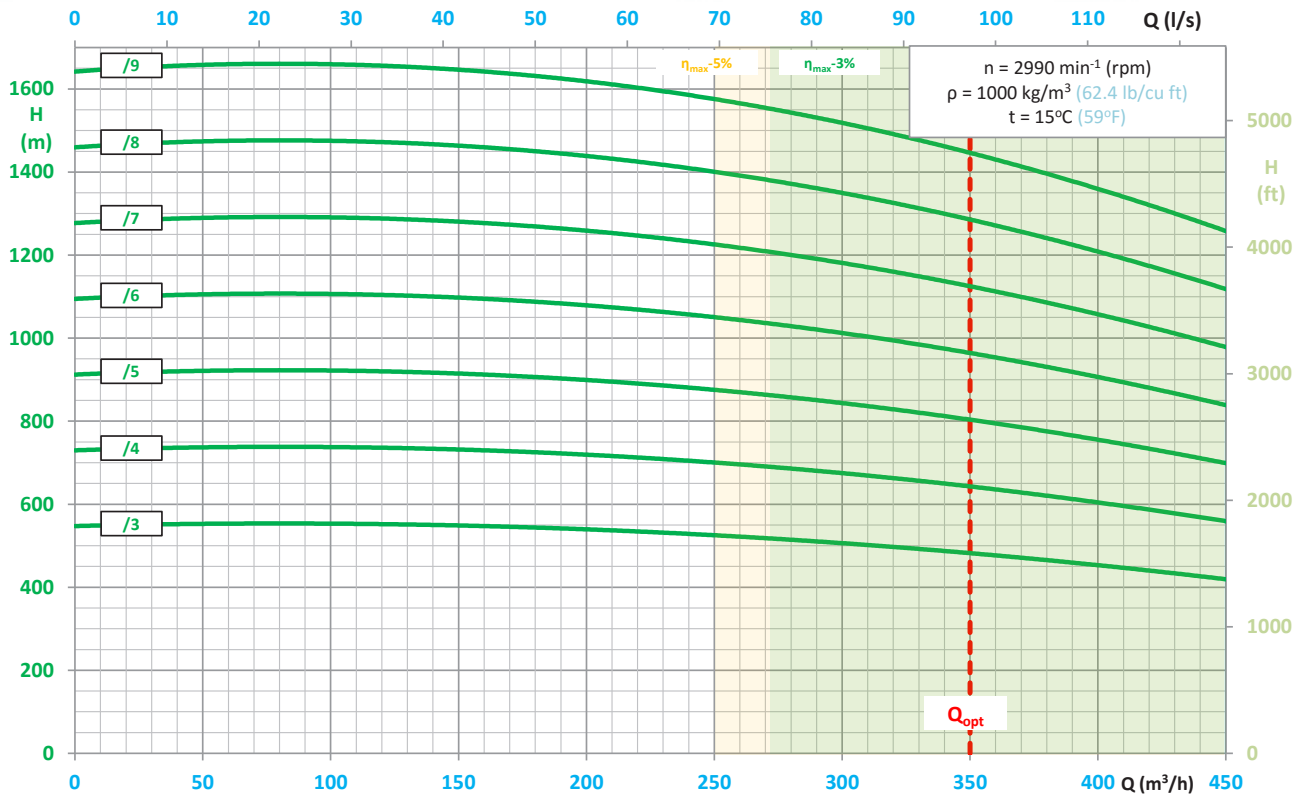
### KEY ADVANTAGES

- different material executions up to DUPLEX and SUPER DUPLEX ensuring the longest life time and corrosion and erosion resistance,
- possibility to use an electronic system for the balance disk wear monitoring,
- possibility to use mechanical sealing,
- possibility of rotating suction connector every 90°,
- highest workmanship precision due to use of multiaxial machines,
- high precision balancing of rotating unit,
- approved for operation in explosion-hazard-zones – ATEX Ex I M2.



# SPW-150

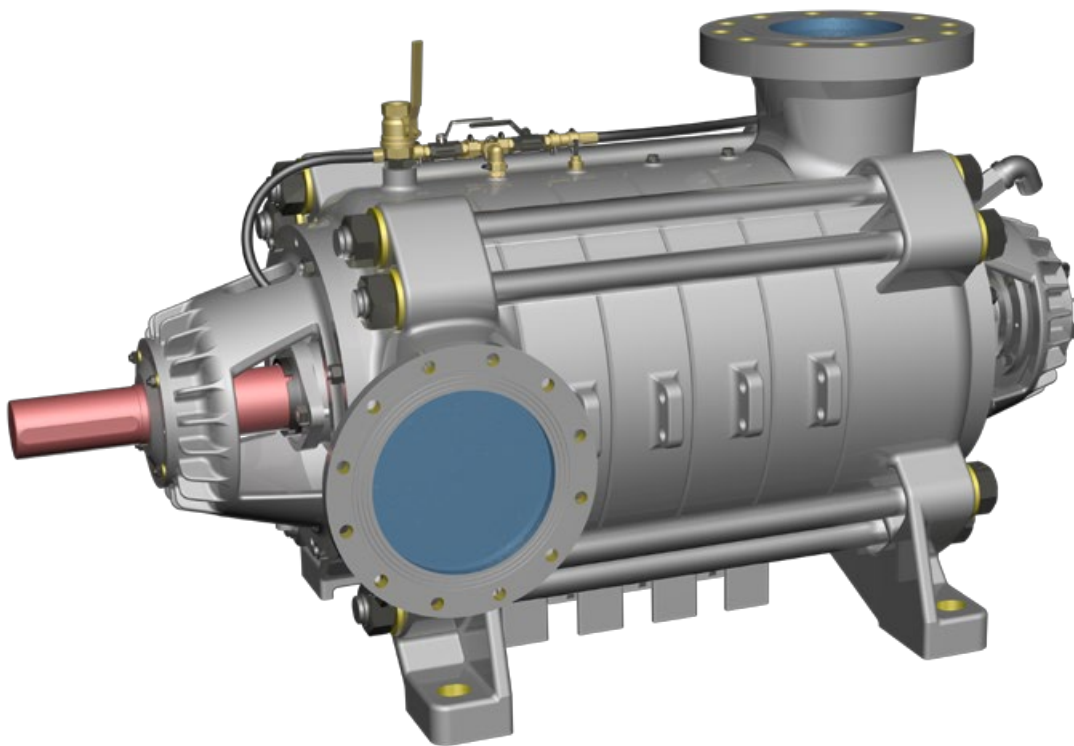
## PUMP PERFORMANCE CURVE



# WPWE-250

## HIGH PRESSURE IMPELLER PUMPS

**Type BB4**



### TYPICAL APPLICATIONS

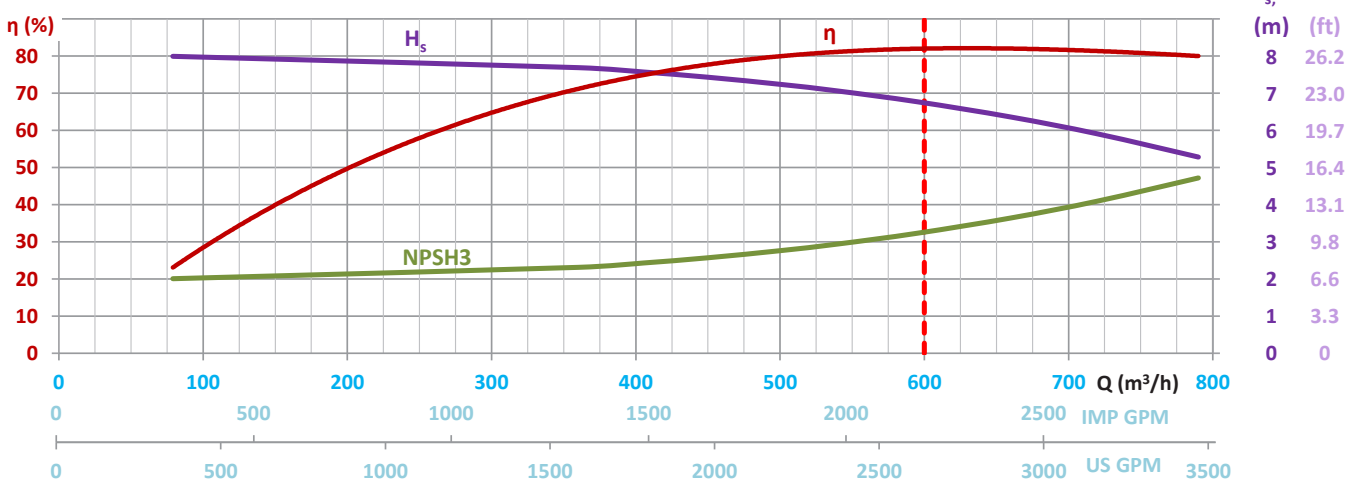
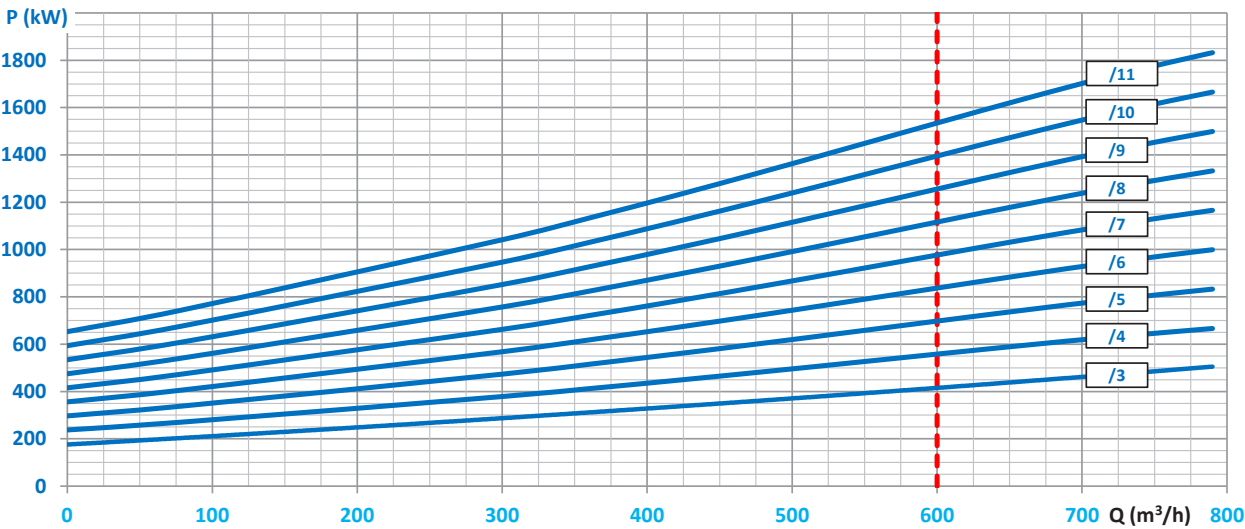
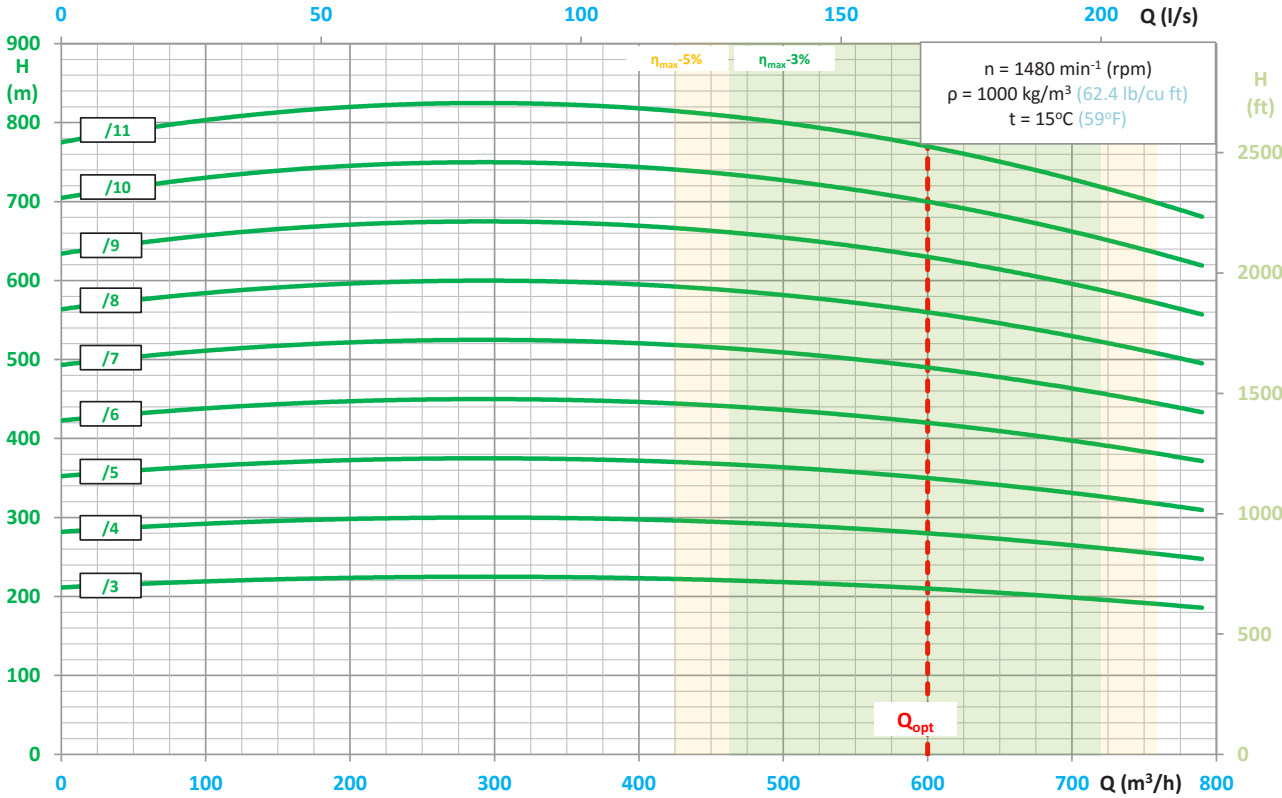
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- pressure boosting,
- technological processes,
- industrial systems,
- coal, copper, salt and other mines,
- mining – main and auxiliary dewatering.

### KEY ADVANTAGES

- new improved design with increased efficiency
- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials (salt-resistant workmanship),
- special material execution DUPLEX especially resistant to difficult conditions,
- possibility to use an electronic system of the balance disk wear monitoring,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

# WPWE-250

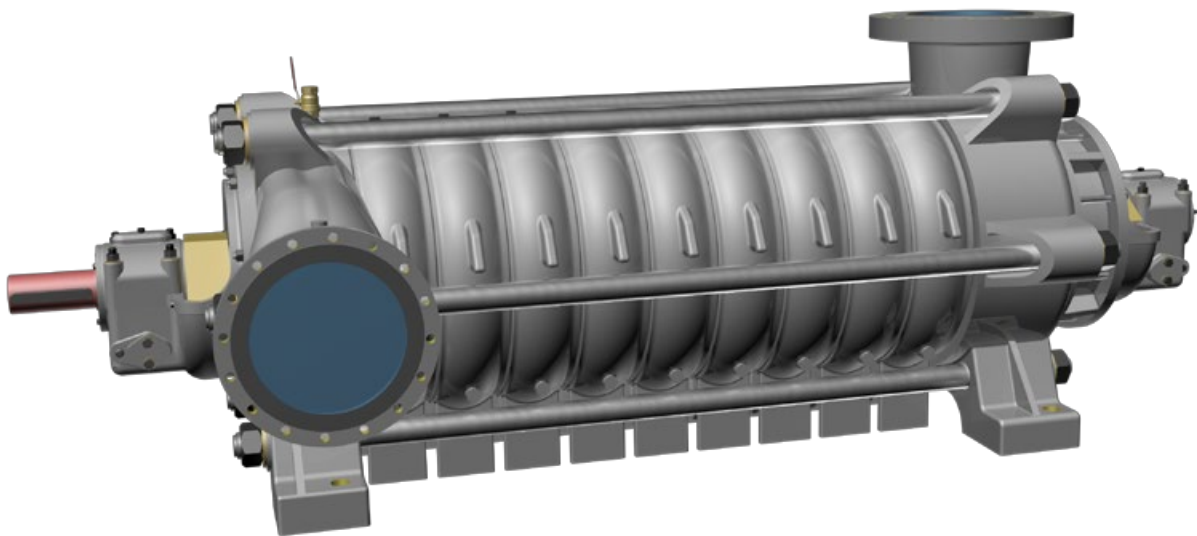
## PUMP PERFORMANCE CURVE



# WPW

## HIGH PRESSURE IMPELLER PUMPS

**Type BB4**



### TYPICAL APPLICATIONS

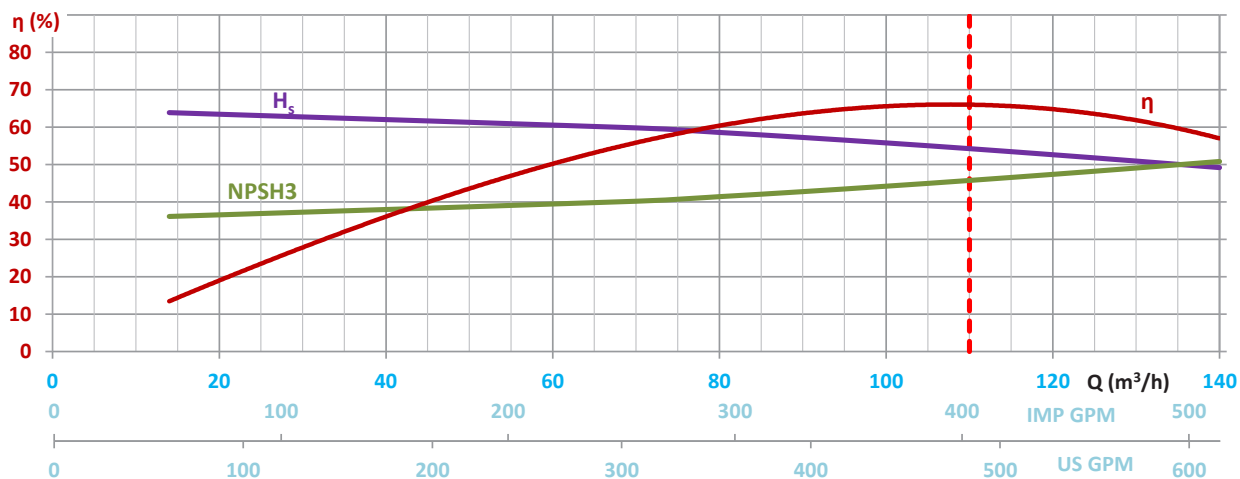
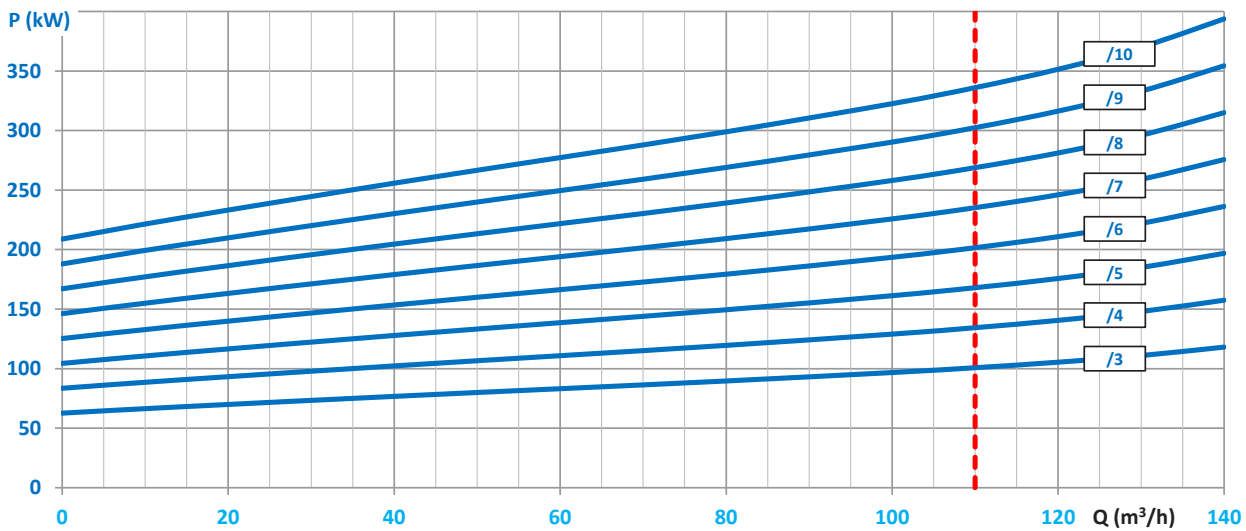
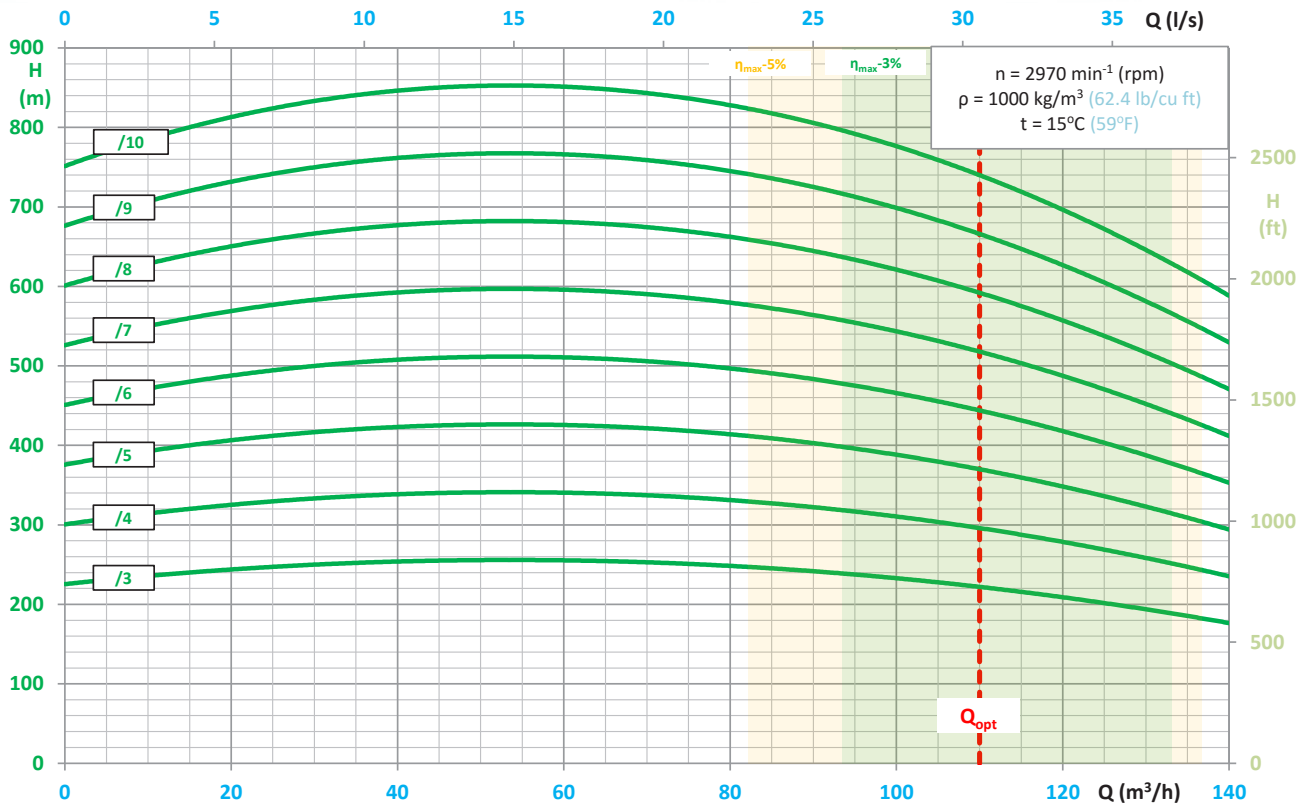
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- pressure boosting,
- technological processes,
- industrial systems,
- coal, copper, salt and other mines,
- mining – main and auxiliary dewatering.

### KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials (salt-resistant workmanship),
- special material execution DUPLEX especially resistant to difficult conditions,
- possibility to use an electronic system of the balance disk wear monitoring,
- connection dimensions in compliance with multi-stage drainage pumps,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

# WPW-100

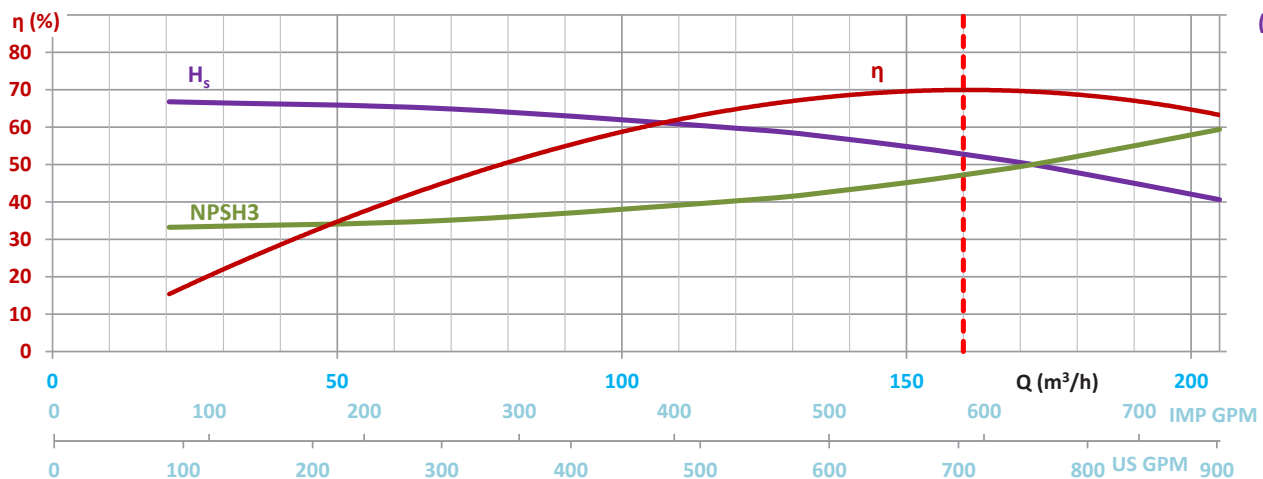
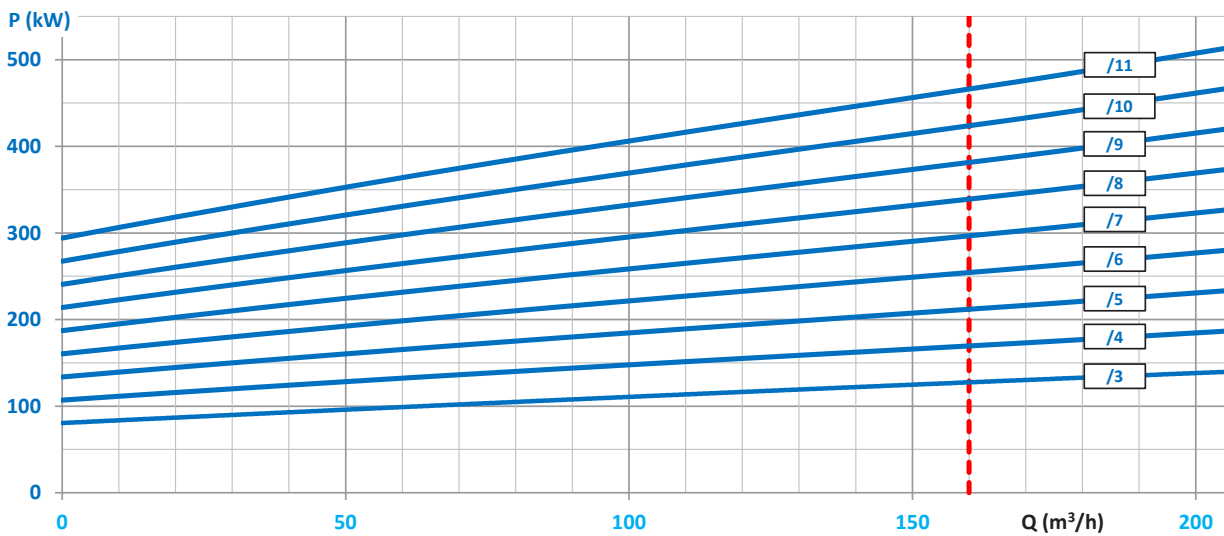
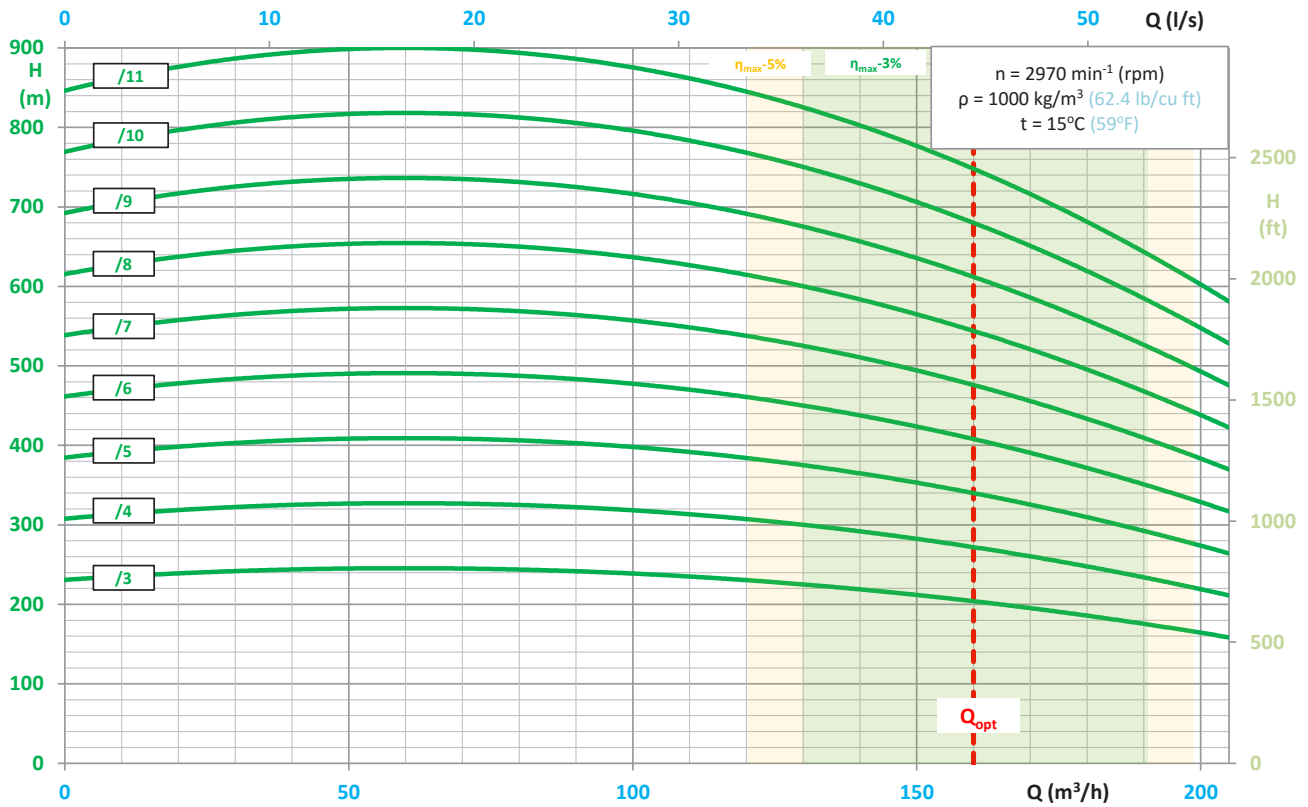
## PUMP PERFORMANCE CURVE



| $H_s, NPSH_3$ | (m) (ft) |
|---------------|----------|
| 8             | 26.2     |
| 7             | 23.0     |
| 6             | 19.7     |
| 5             | 16.4     |
| 4             | 13.1     |
| 3             | 9.8      |
| 2             | 6.6      |
| 1             | 3.3      |
| 0             | 0        |

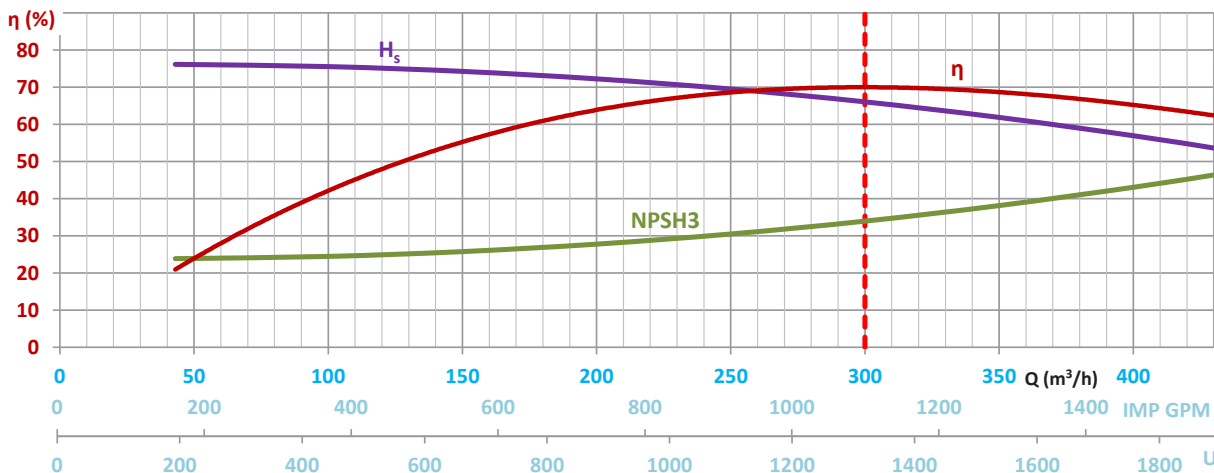
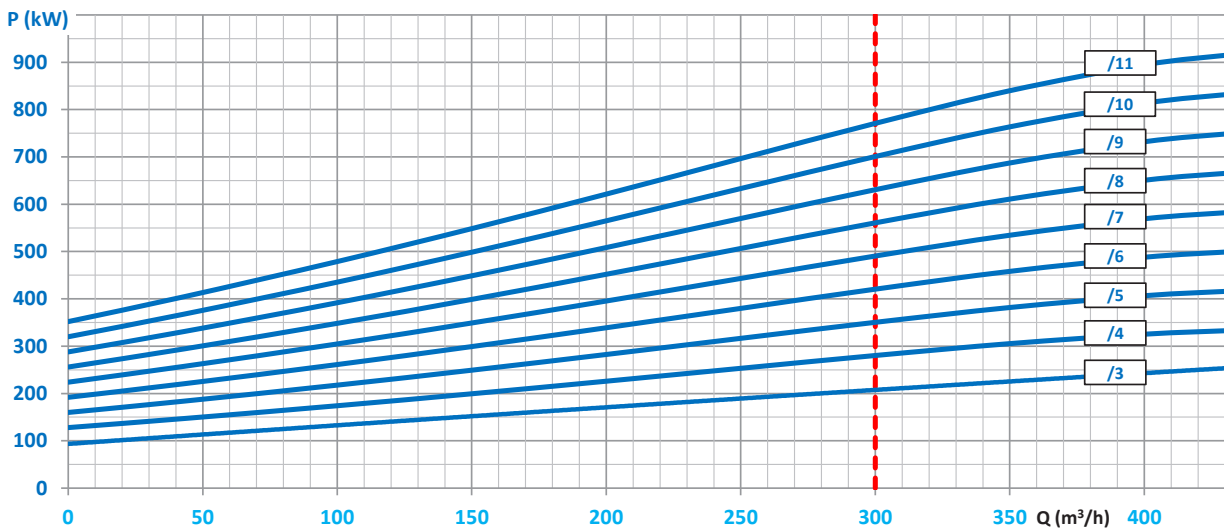
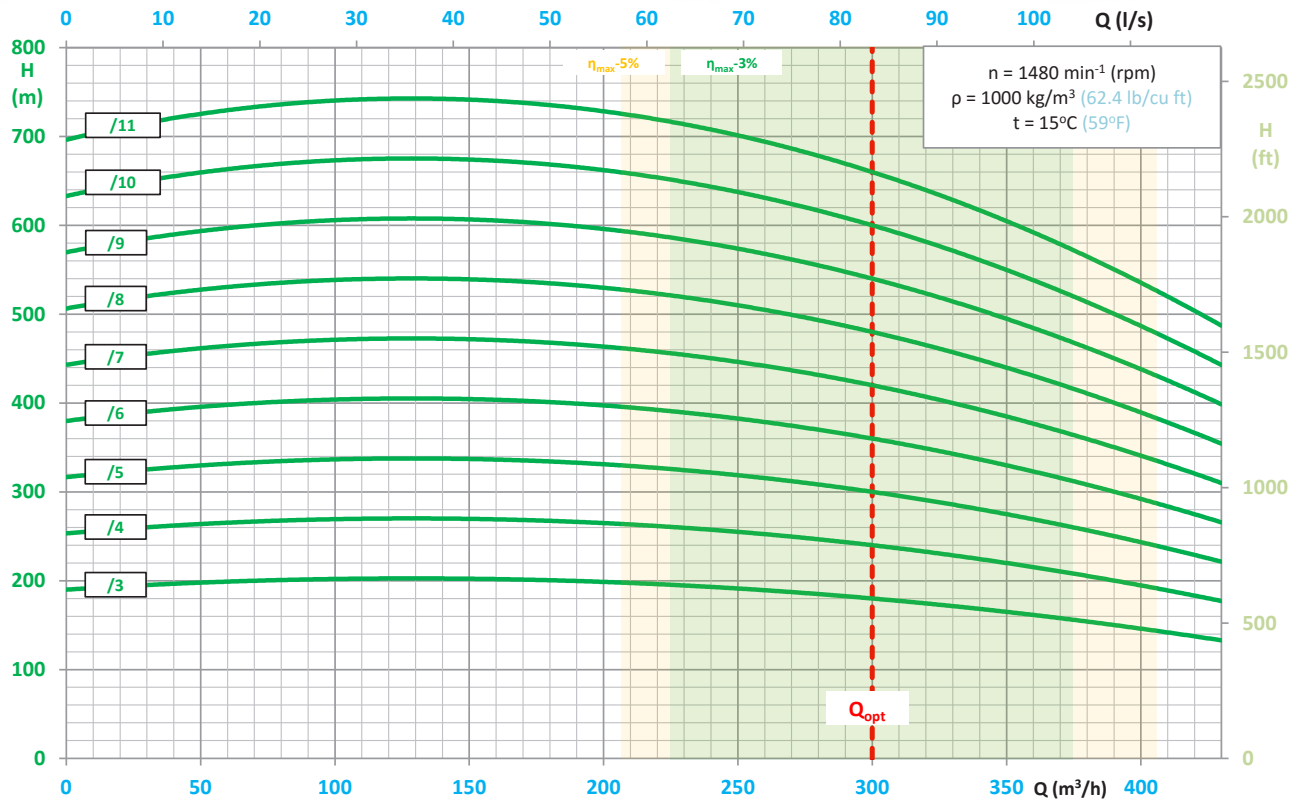
# WPW-150

## PUMP PERFORMANCE CURVE



# WPW-200

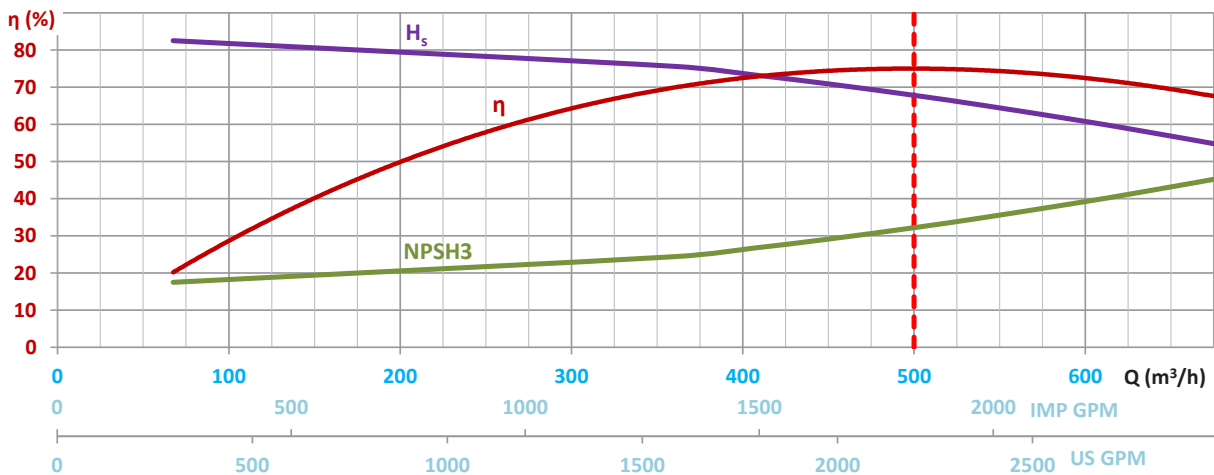
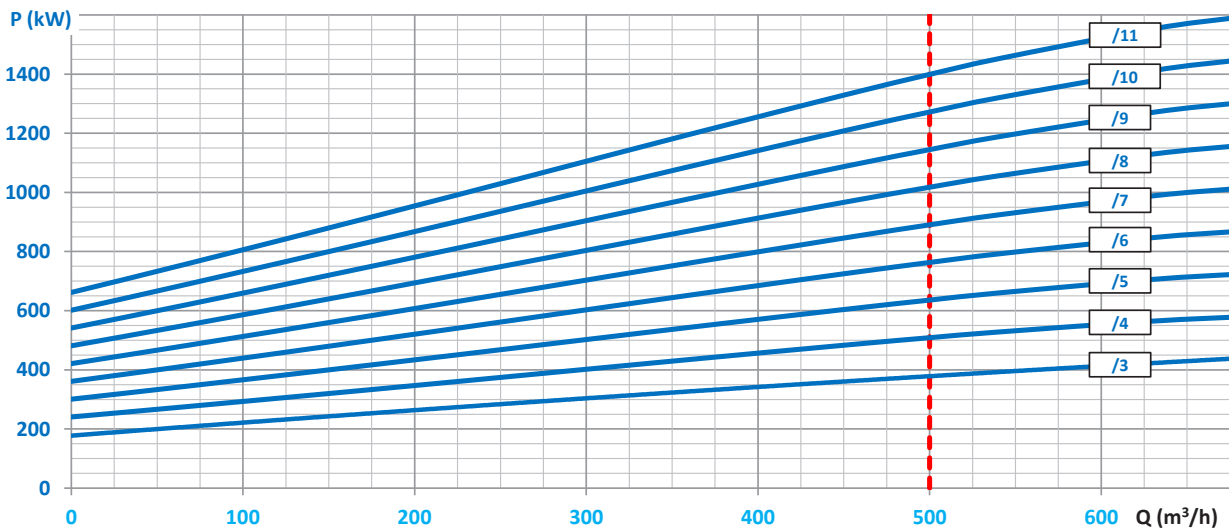
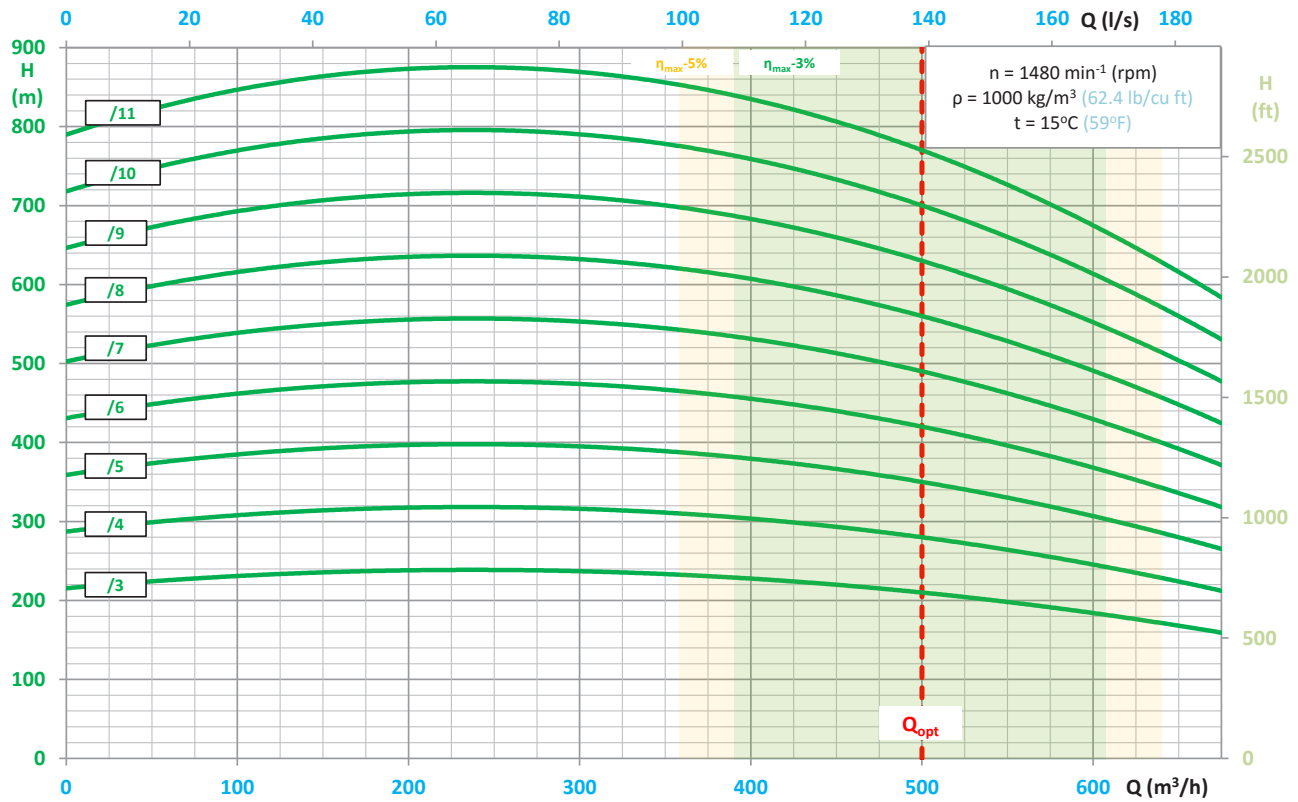
## PUMP PERFORMANCE CURVE



| H <sub>s</sub> , NPSH3 (m) | (ft) |
|----------------------------|------|
| 8                          | 26.2 |
| 7                          | 23.0 |
| 6                          | 19.7 |
| 5                          | 16.4 |
| 4                          | 13.1 |
| 3                          | 9.8  |
| 2                          | 6.6  |
| 1                          | 3.3  |
| 0                          | 0    |

# WPW-250

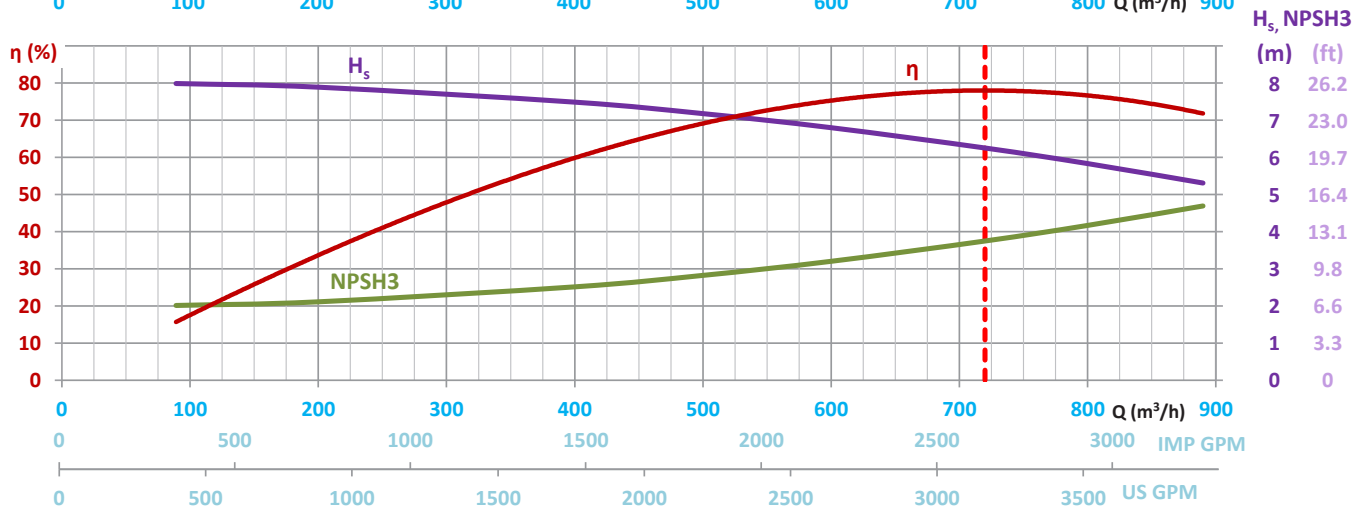
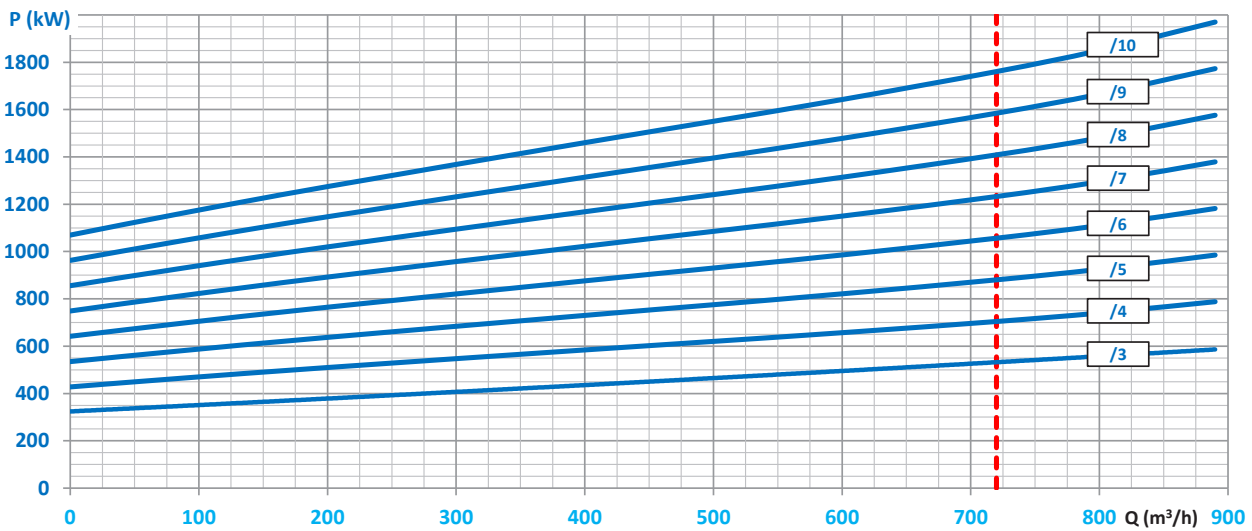
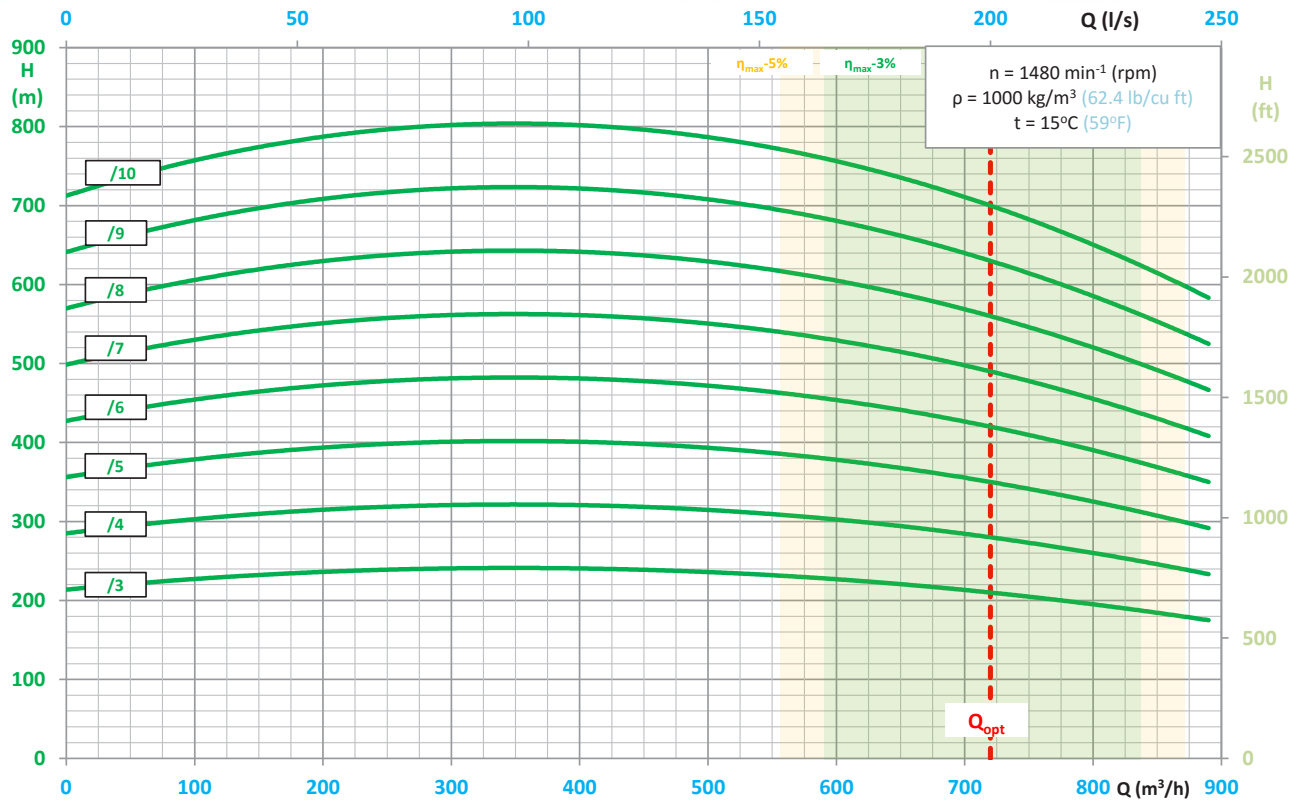
## PUMP PERFORMANCE CURVE





# PUMP PERFORMANCE CURVE

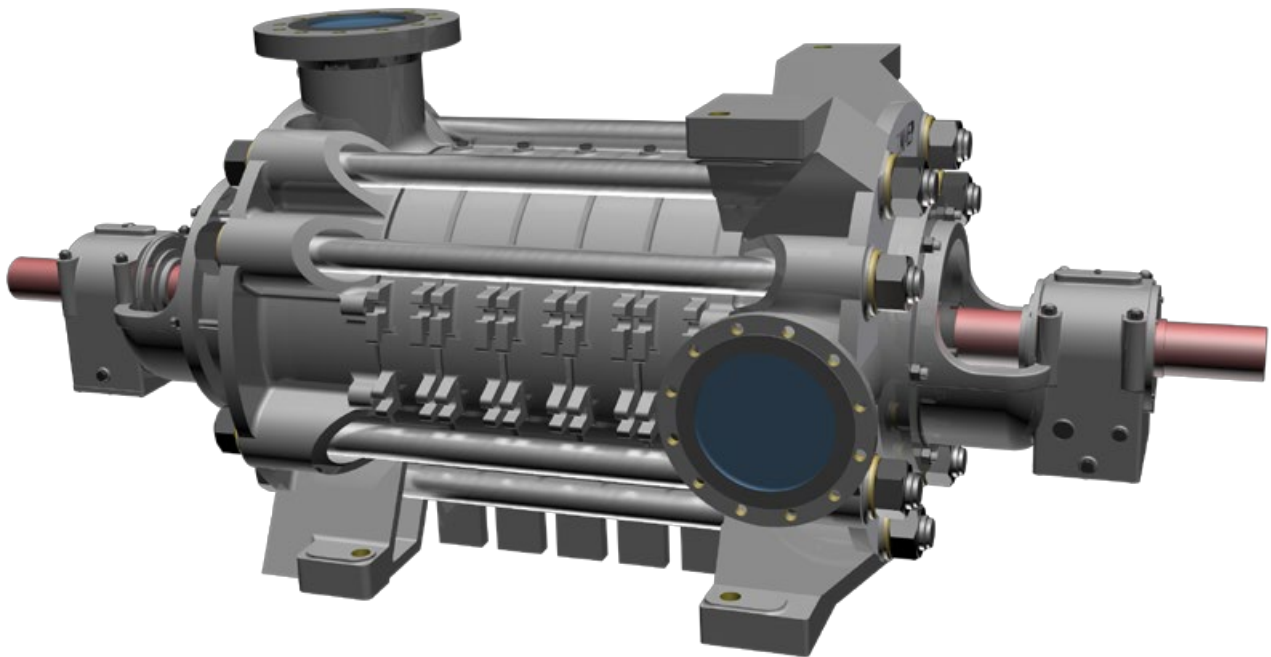
# WPW-300



# WPWH

## HIGH PRESSURE IMPELLER PUMPS

**Type BB4**



### TYPICAL APPLICATIONS

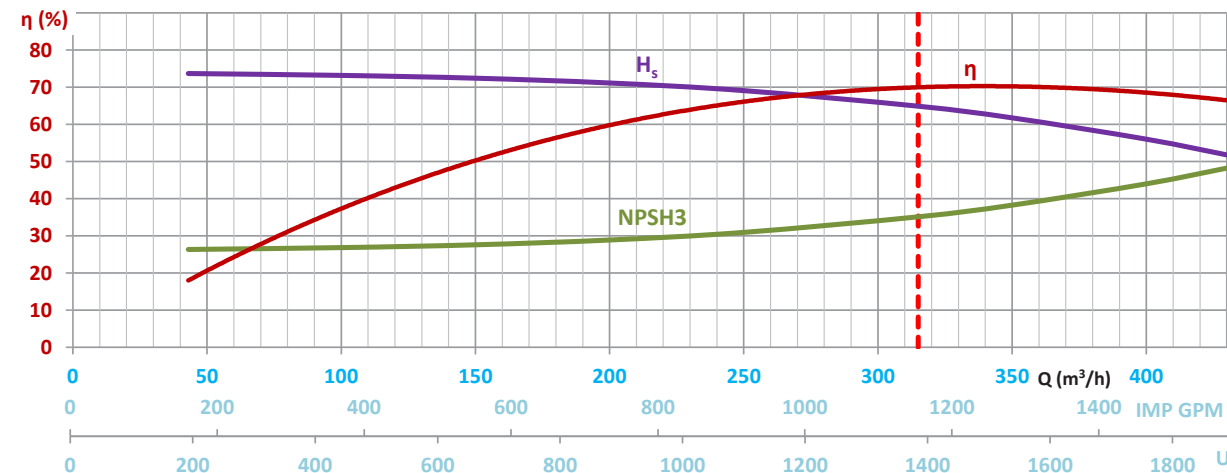
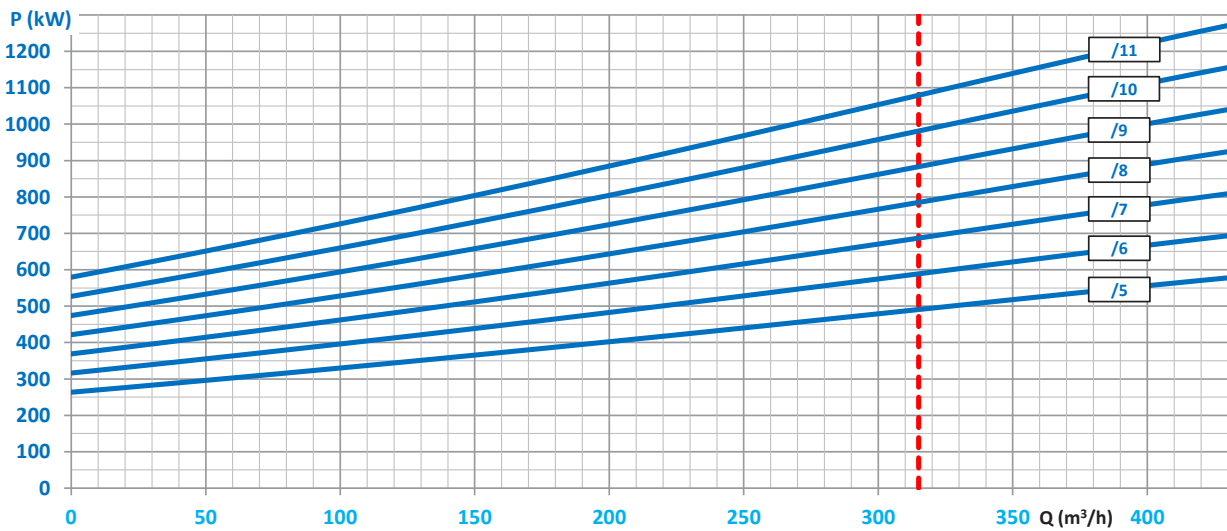
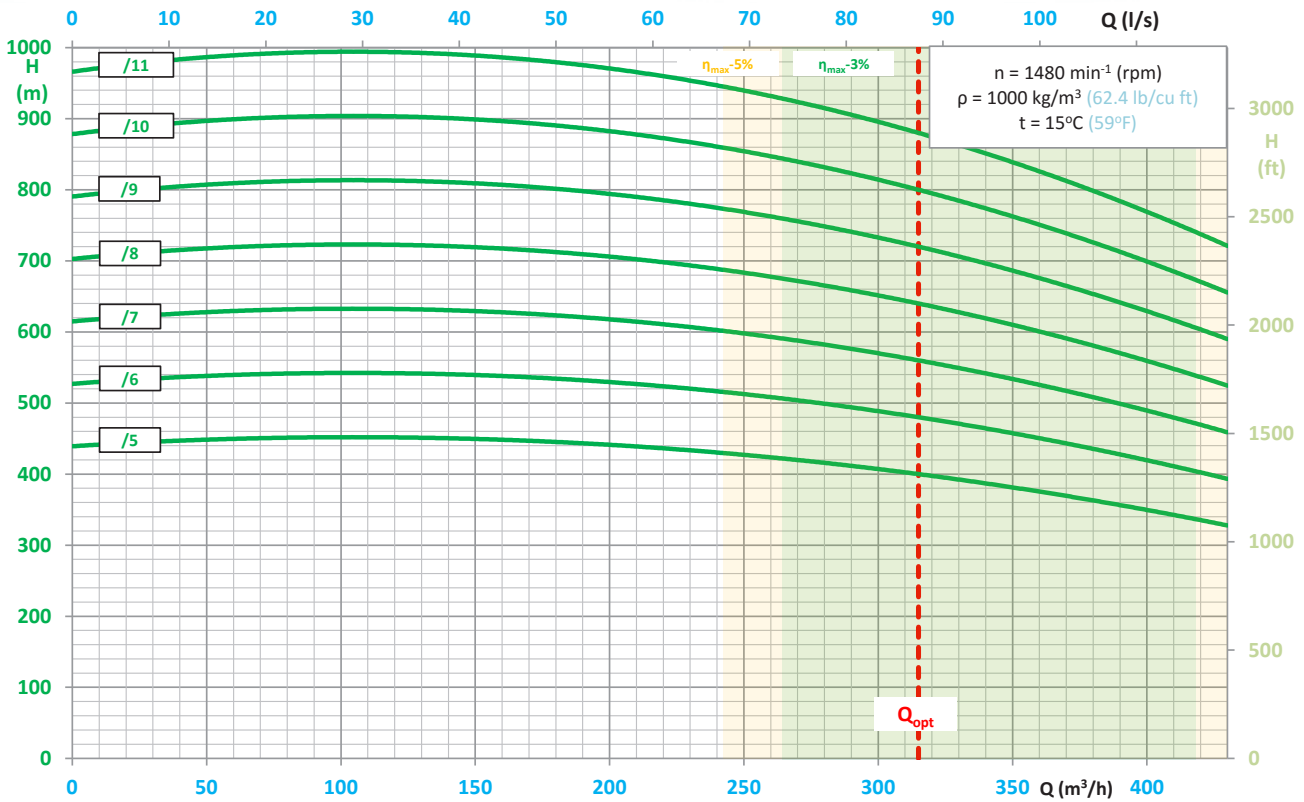
- pumping of pure or mechanically contaminated water with solids with the grain size of up to 2 mm,
- pressure boosting,
- technological processes,
- industrial systems,
- coal, copper, salt and other mines,
- mining – main and auxiliary dewatering.

### KEY ADVANTAGES

- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials (salt-resistant workmanship),
- special material execution DUPLEX especially resistant to difficult conditions,
- possibility to use an electronic system of the balance disk wear monitoring,
- connection dimensions in compliance with multi-stage drainage pumps,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

# WPWH-200

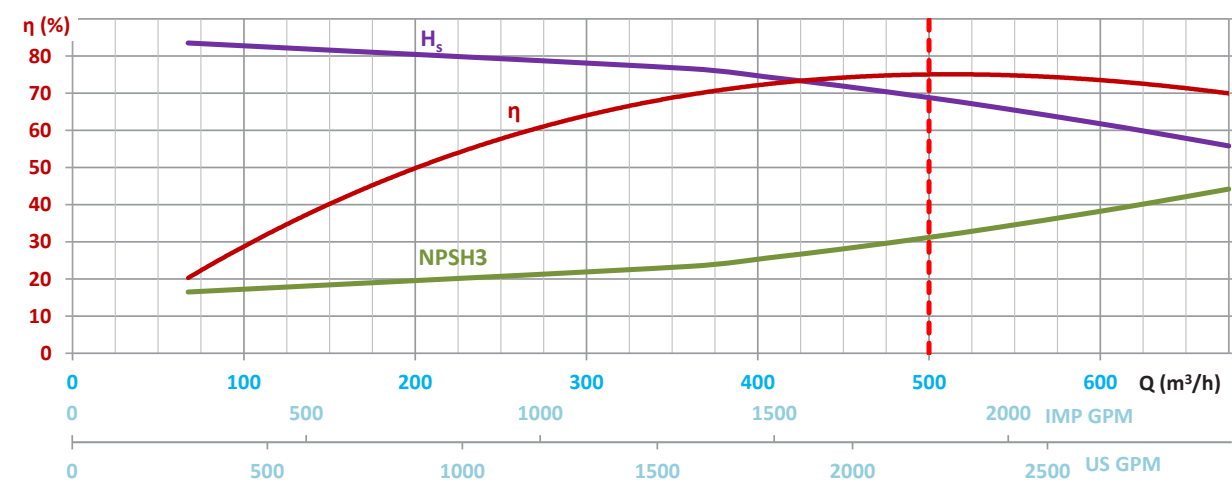
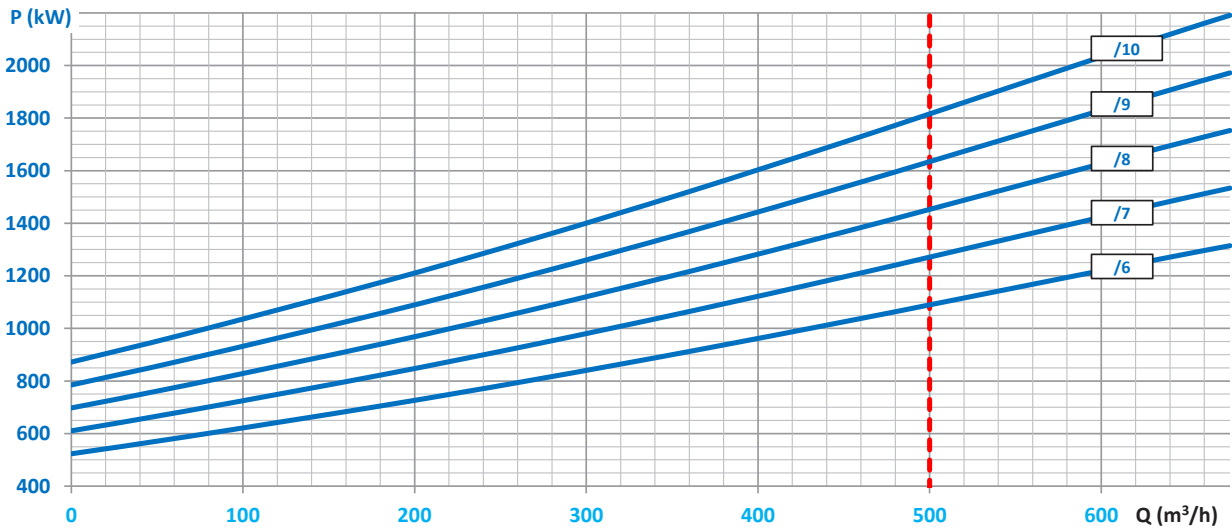
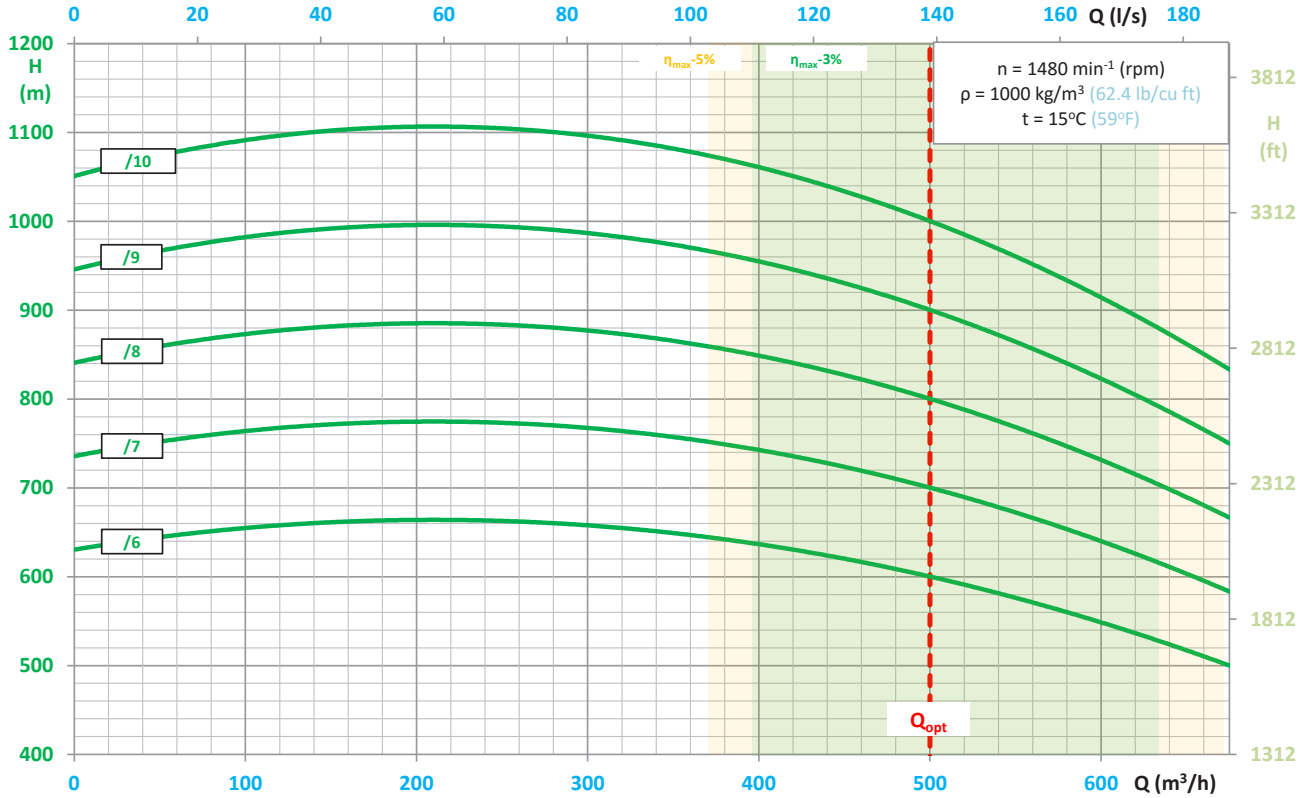
## PUMP PERFORMANCE CURVE



| H <sub>s</sub> , NPSH3 (m) | (ft) |
|----------------------------|------|
| 8                          | 26.2 |
| 7                          | 23.0 |
| 6                          | 19.7 |
| 5                          | 16.4 |
| 4                          | 13.1 |
| 3                          | 9.8  |
| 2                          | 6.6  |
| 1                          | 3.3  |
| 0                          | 0    |

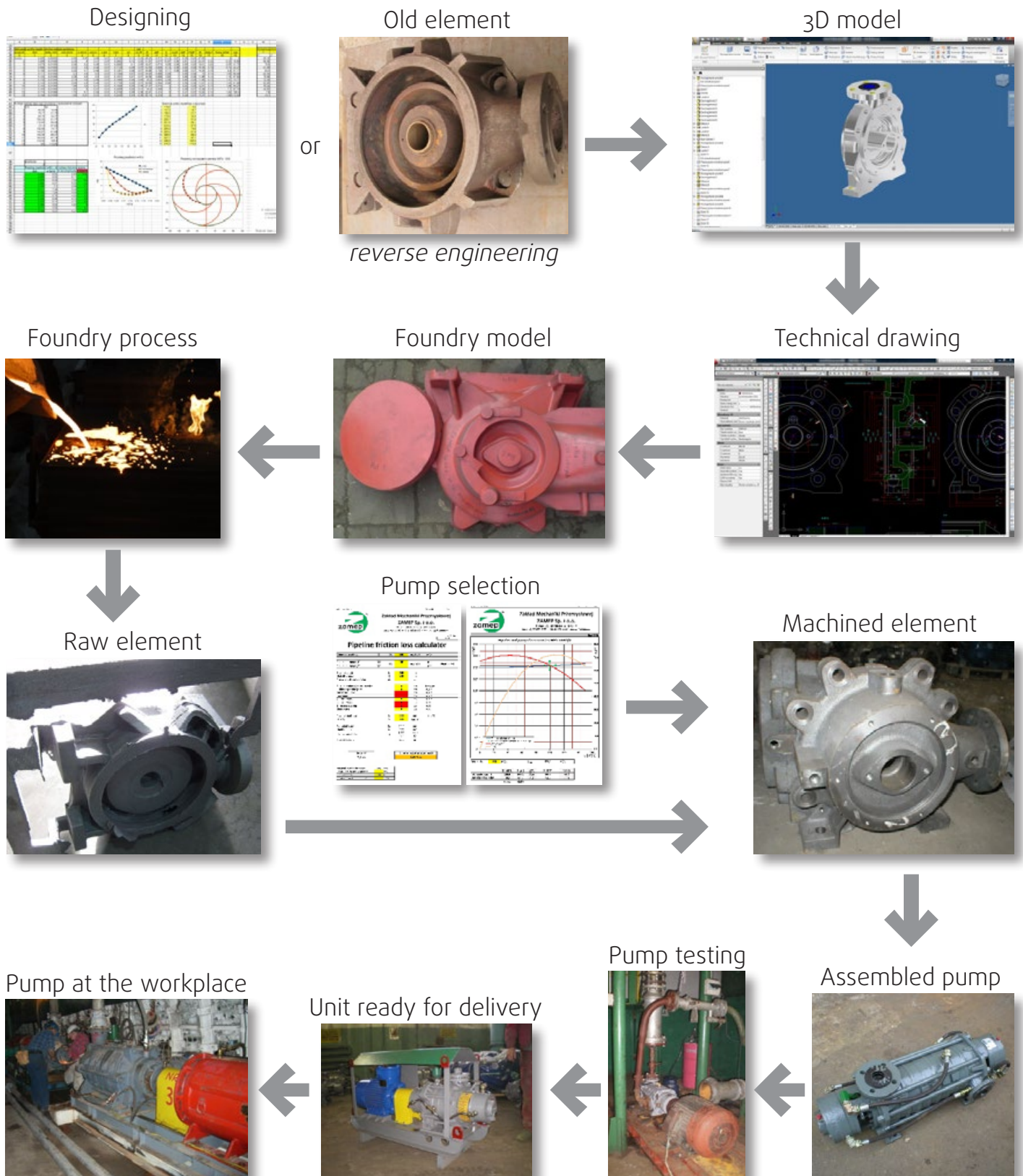
# WPWH-250

## PUMP PERFORMANCE CURVE



| $H_s$ , NPSH3 | (m)  | (ft) |
|---------------|------|------|
| 8             | 26.2 |      |
| 7             | 23.0 |      |
| 6             | 19.7 |      |
| 5             | 16.4 |      |
| 4             | 13.1 |      |
| 3             | 9.8  |      |
| 2             | 6.6  |      |
| 1             | 3.3  |      |
| 0             | 0    |      |

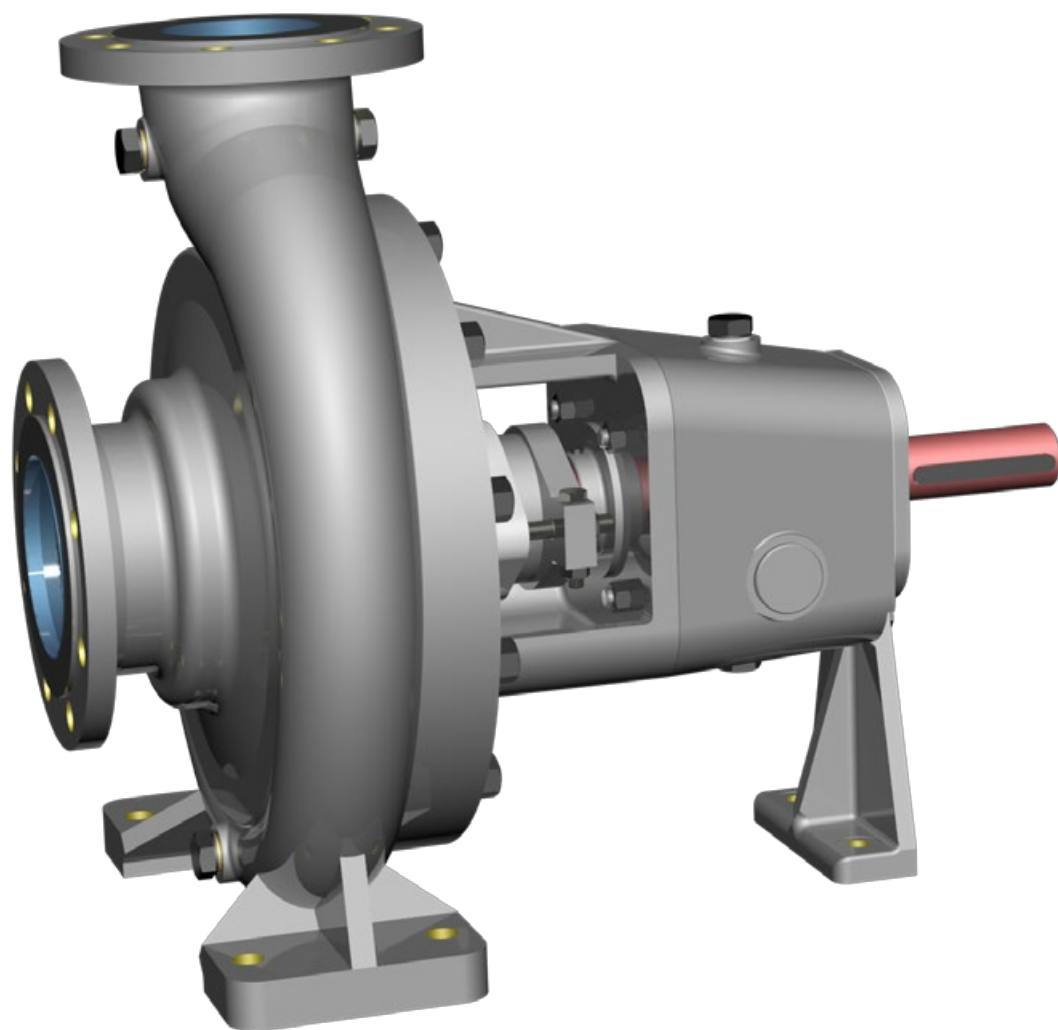
# Engineering company



# WPN

NOMINALPARAMETER PUMP

**Type OH1**



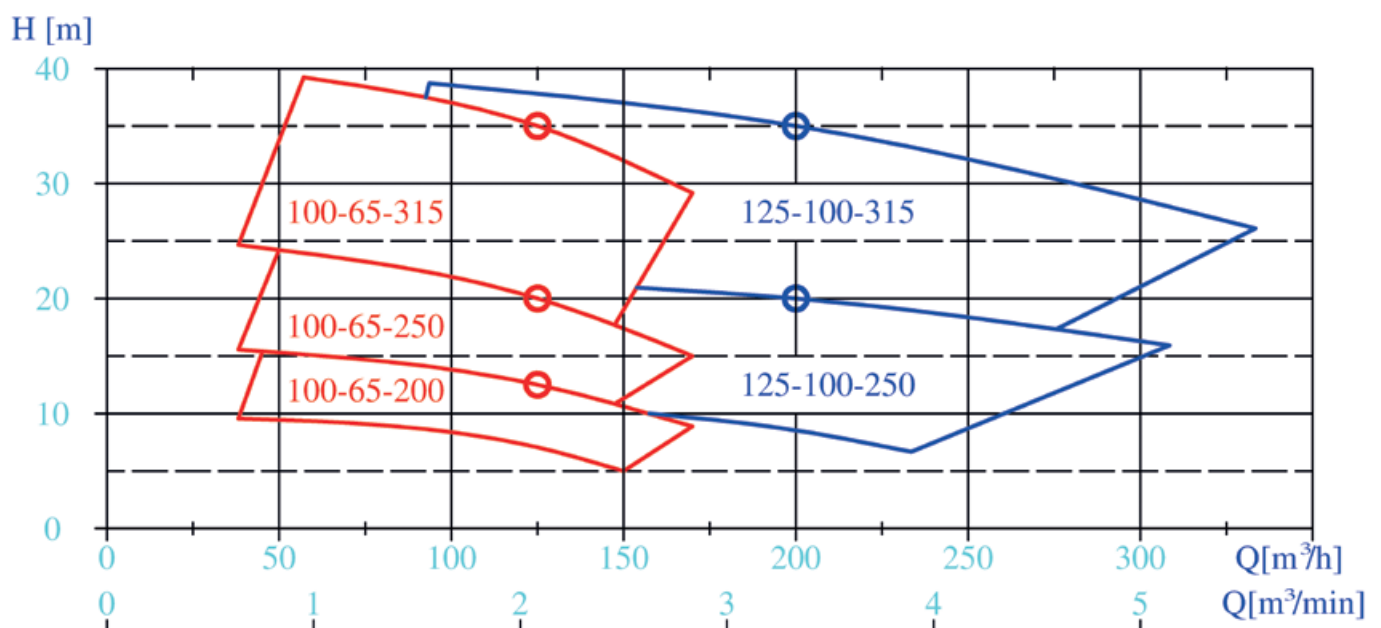
## TYPICAL APPLICATIONS

- water supply and water treatment,
- pressure boosting,
- technological processes,
- industrial systems,
- filtration systems,
- pumping mixtures of water and mechanical parts,
- firefighting,
- irrigation.

## KEY ADVANTAGES

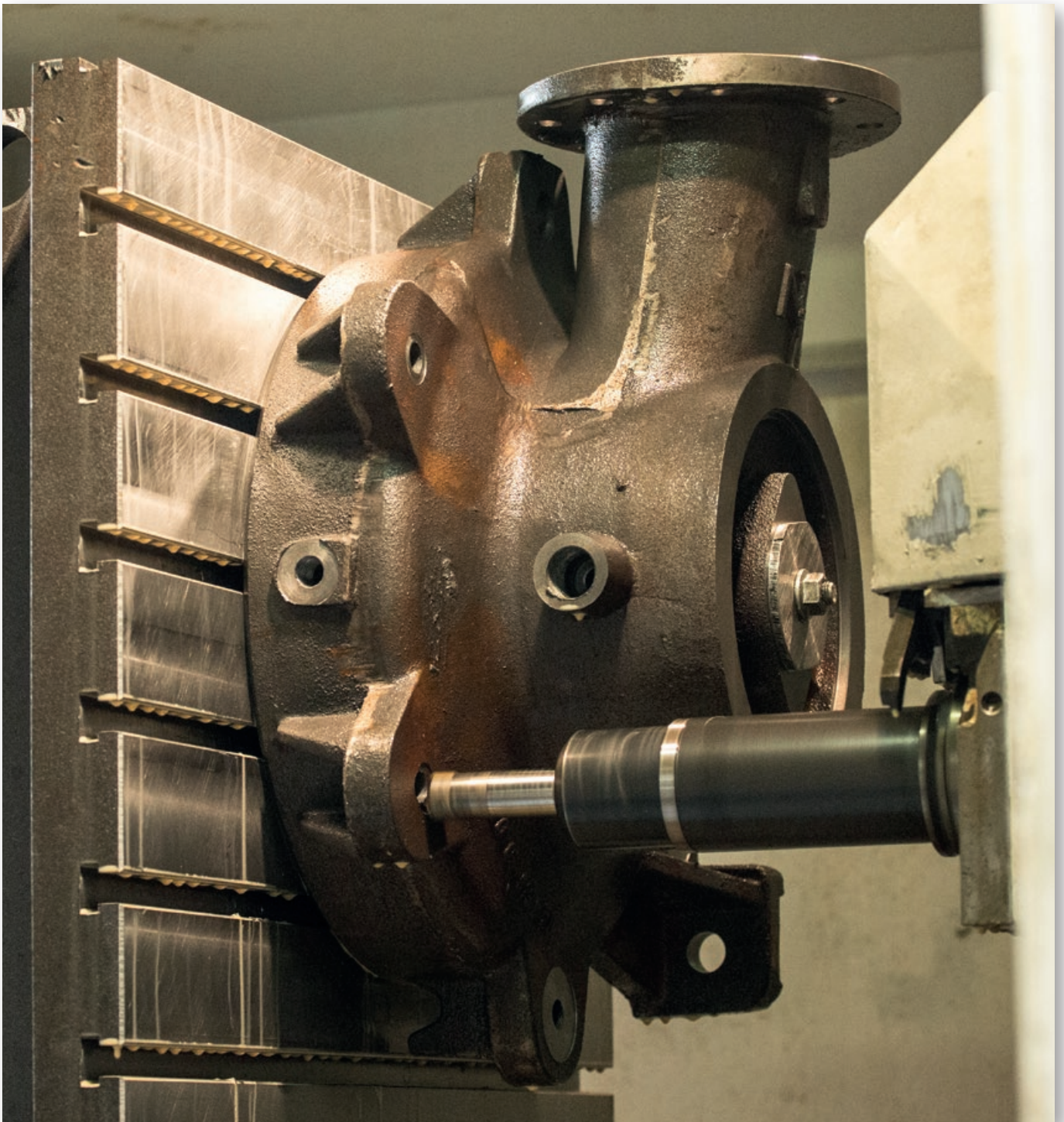
- long life ensured by the use of state-of-the-art corrosion and erosion resistant materials,
- possibility of operation with a frequency converter,
- interchangeability with other EN 733 pumps,
- connection dimensions and characteristics as per EN 733 - DIN 24255,
- high efficiency impeller design,
- silent and smooth operation,
- simply maintenance because of back-pull-out system allowing removal of impeller, shaft, sealing and bearings without disassembling from pipeline,
- mechanical or packing shaft sealing,
- available as bare shaft execution or with baseplate,
- approved for operation in explosion-hazard zones – ATEX Ex I M2.

## PUMP PERFORMANCE CURVE



# Repairs

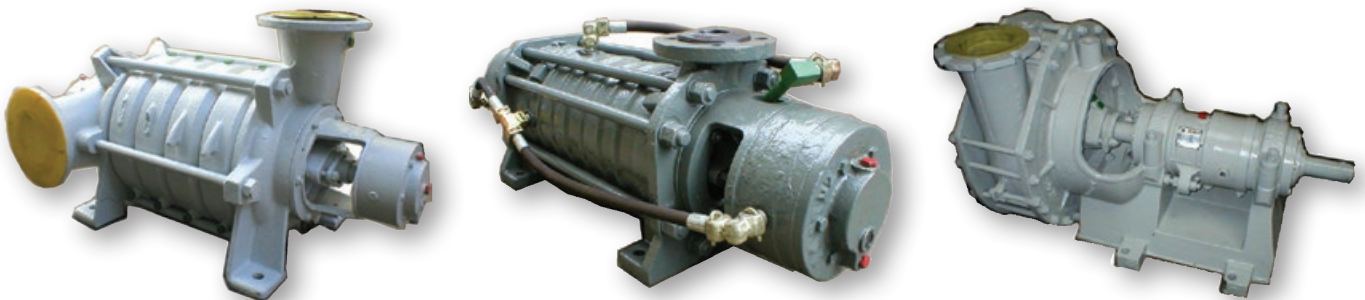
## IMPELLER PUMP REPAIRS





## WE OFFER EXECUTION OF REPAIRS OF IMPELLER PUMPS MADE BY THE FOLLOWING MANUFACTURERS:

- ZMP „ZAMEP” Sp. z o.o.
- Sigma Pumpy Hranice s.r.o.
- CH Warman Pump Group
- POWEN S.A.
- DÜCHTING Pumpen Maschinenfabrik GmbH & Co. KG
- and others.



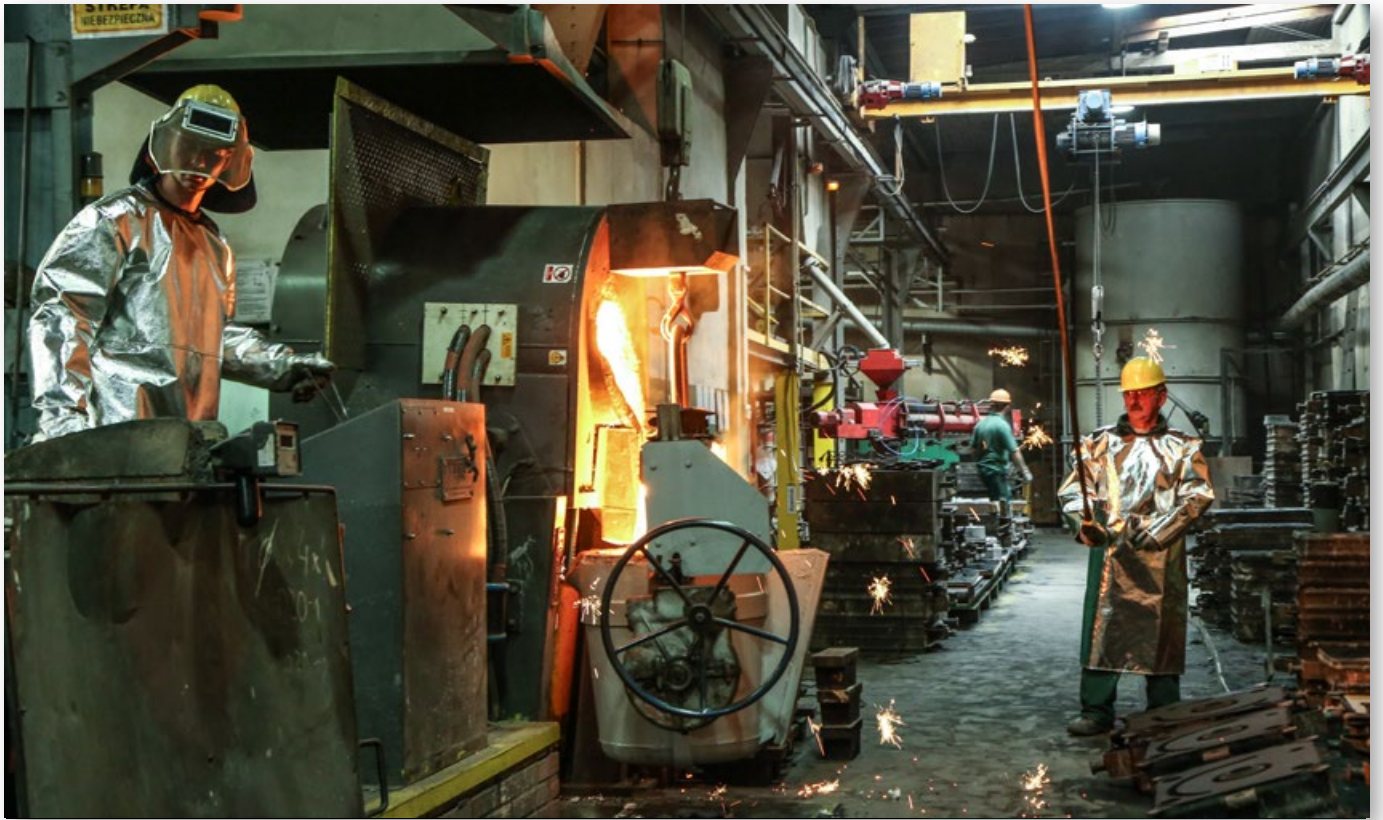
## REPAIRS ON OUR OFFER:

- current, medium and major repairs according to own or entrusted documentation,
- restoration repairs,
- regenerative repairs,
- modernisation works including among others changes in:
  - the number of stages,
  - material workmanship,
  - the sealing system,
  - the flow system, i.e. adjustment to required operation parameters.



The components of pumps under repair are subject to hydrostatic tests and, at the Customer's request, the operation parameters are measured in a fixed range of the pump delivery. The parameters are measured with accuracy class 1 or 2 according to PN-EN ISO 9906 on one of the test stands.

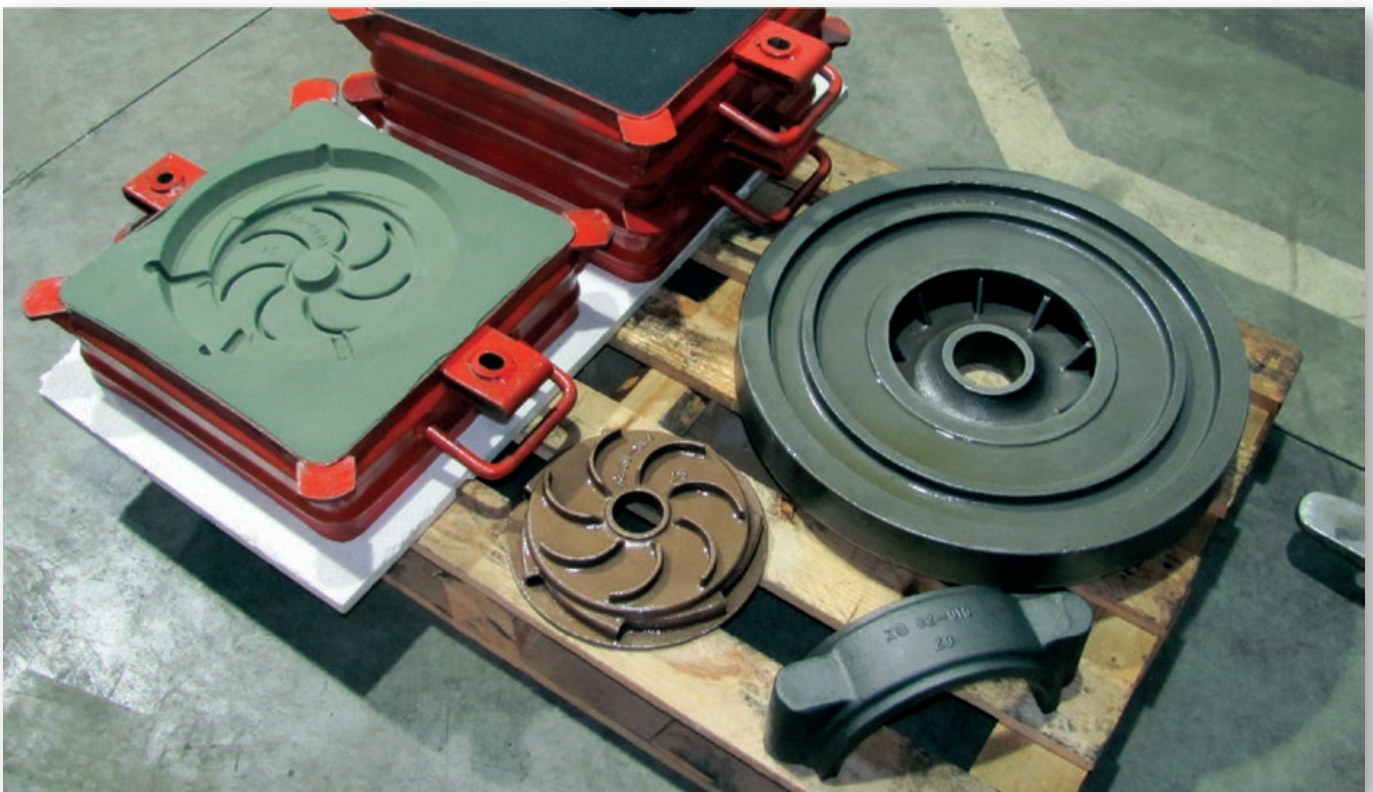
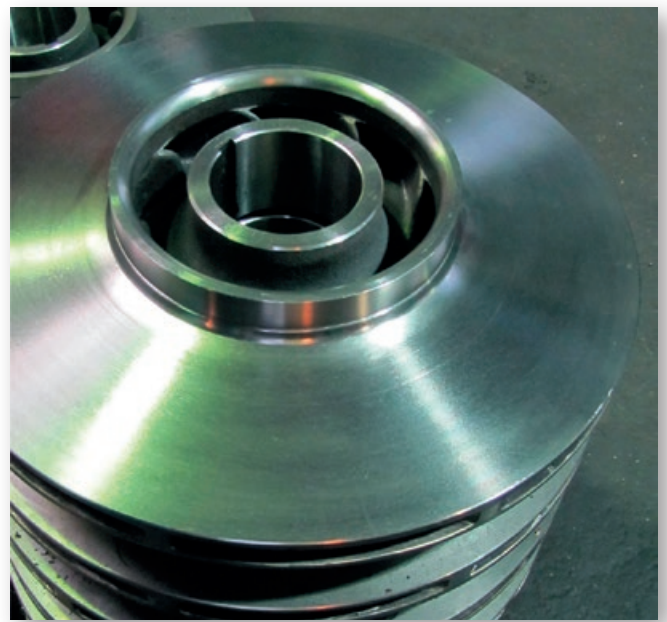
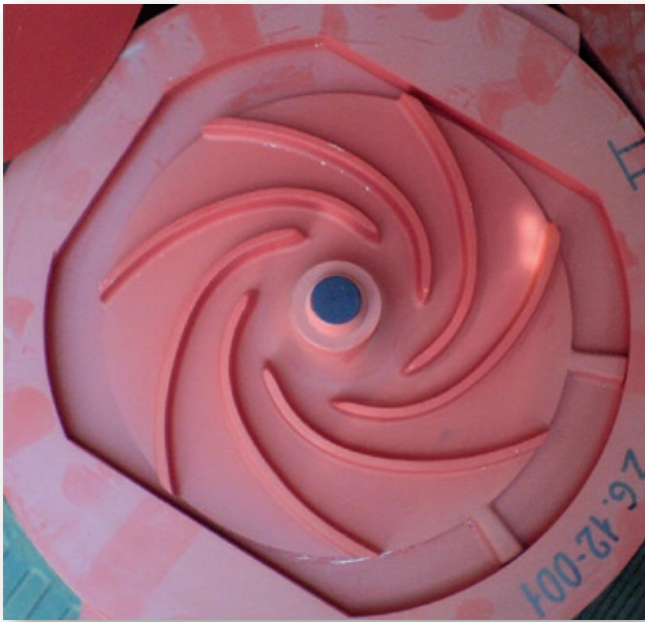
# Foundry



## OUR OFFER INCLUDES CASTING FROM OWN OR ENTRUSTED MOULDS

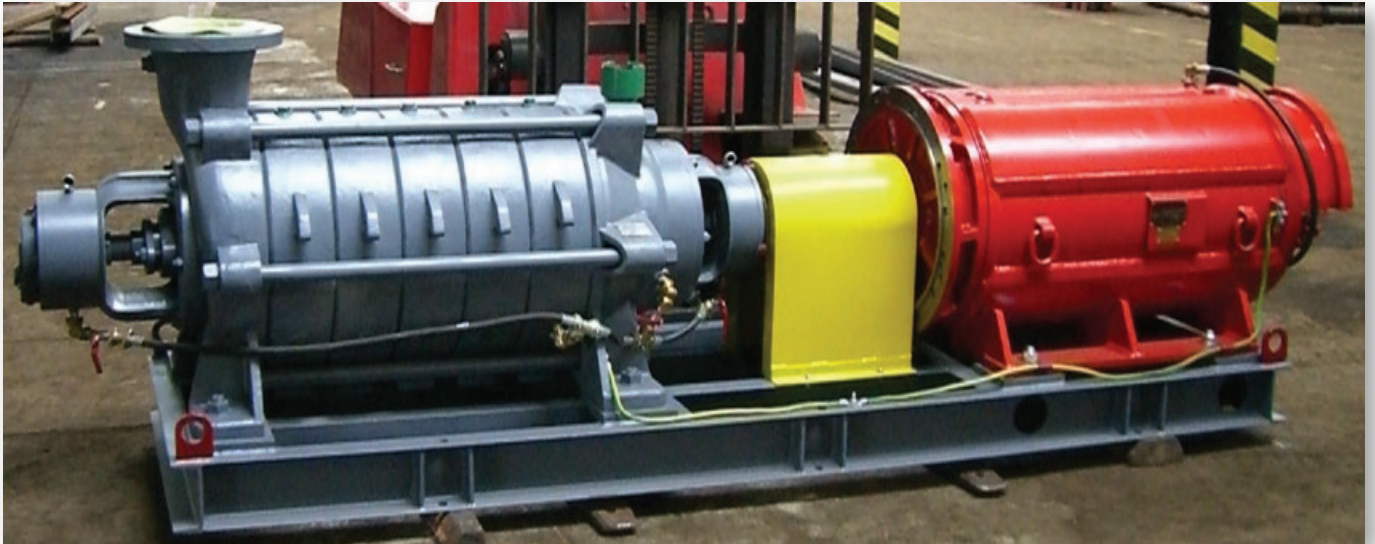
### WE MAKE:

- Iron and alloy iron castings – up to 1000 kg (2200 lb)
- Cast and alloy cast steel castings – up to 1000 kg (2200 lb)
- Copper, bronze and brass castings – up to 1000 kg (2200 lb)
- DUPLEX, SUPER DUPLEX up to 1000 kg (2200 lb)

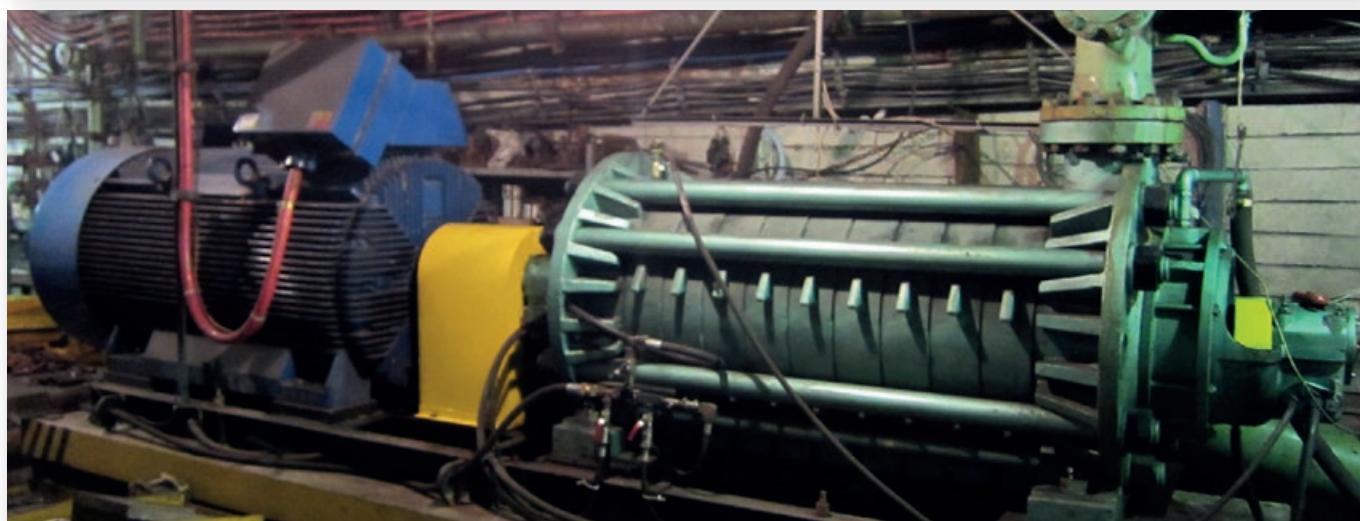
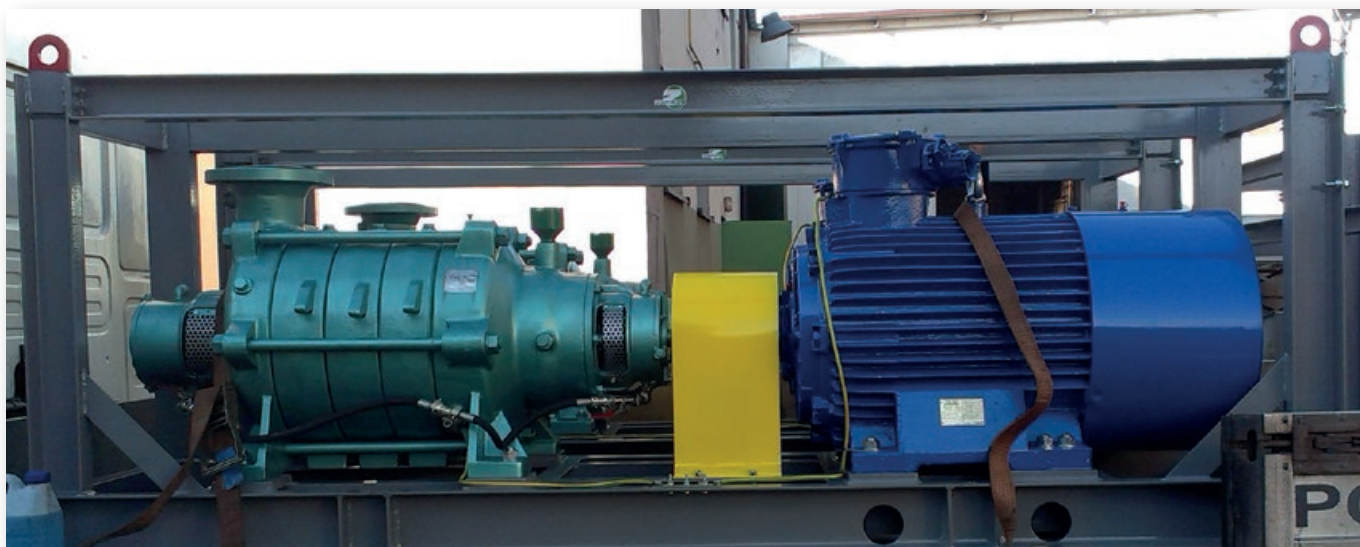


# Units

## PUMP UNITS



FOR ALL PUMPS OFFERED BY ZAMEP, AS WELL AS FOR REPAIRED PUMPS, OUR OFFER INCLUDES PERFORMANCE OF COMPLETE PUMP UNITS



# notes



zamep

# CERTIFICATES

Some of ours certificates



This catalog does not constitute a sales offer as stipulated in the Civil Code.

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# Zakład Mechaniki Przemysłowej ZAMEP Sp. z o.o.

44-100 Gliwice, Udzieli 6 St., Poland

tel. (+48) 32 279 10 90

tel./fax (+48) 32 279 11 90

e-mail: [zamep@zamep.eu](mailto:zamep@zamep.eu)

[www.zamep.eu](http://www.zamep.eu)

