



Submersible Propeller Pumps

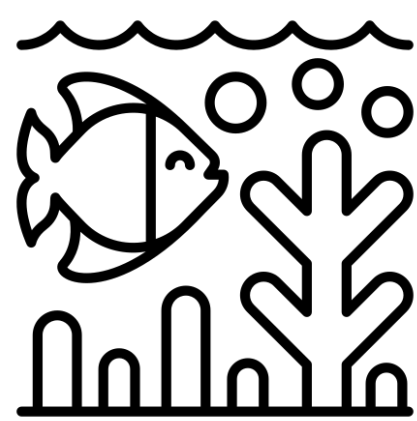
New-generation mechanical/electrical axial flow electric submersible pumps and mixed-flow electric submersible pumps from **Wings Pumps** provides high reliability, reduced installation and maintenance costs, with a longer lifetime.

APPLICATIONS



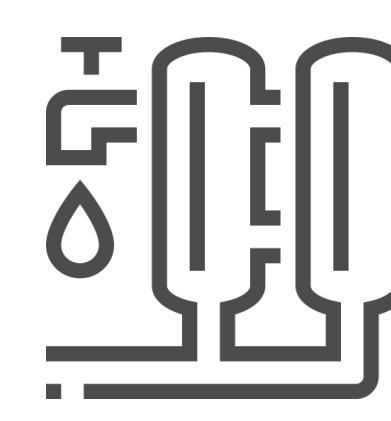
Storm Water Drainage

Supports structures, channels and pipes that carry stormwater (rain water) to ponds, lakes, streams and rivers.



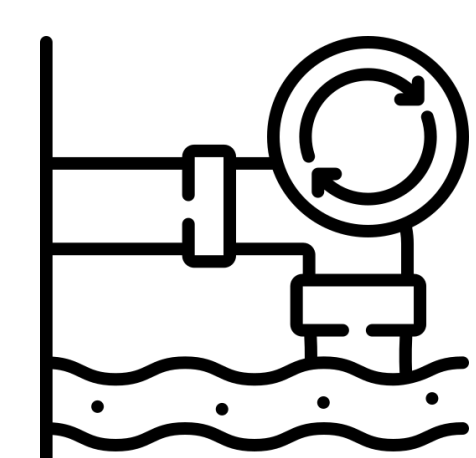
Irrigation and Aquaculture

Used for irrigation and aquaculture ecosystems. Environmentally-friendly.



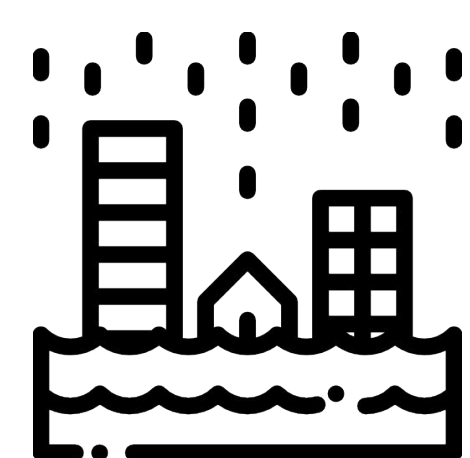
Raw Water and Processed Water

Supports raw water intakes and applicable intakes for water treatment plants.



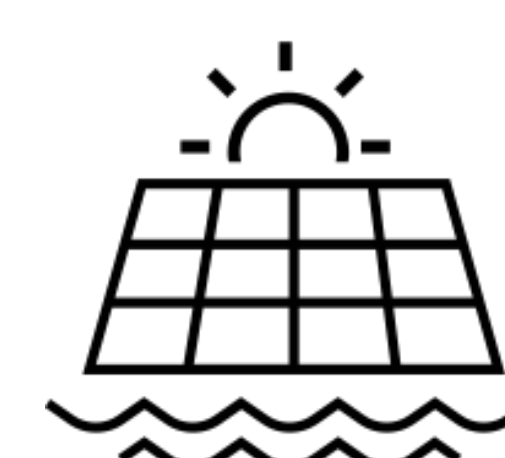
Sewage and Recirculation Sludge

Designed to move the thickest mixtures and pass large pieces of debris without damage or wear on the pump.



Municipality

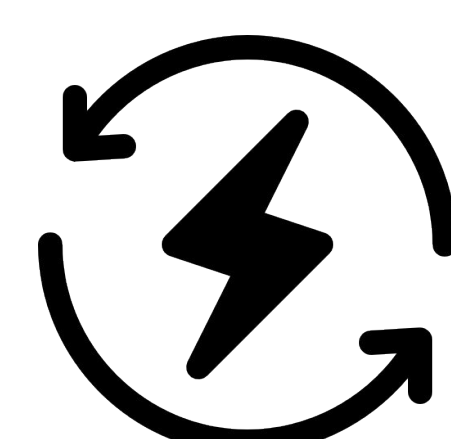
Well-Integrated with municipality work and projects with high requirements.



Renewable Energy

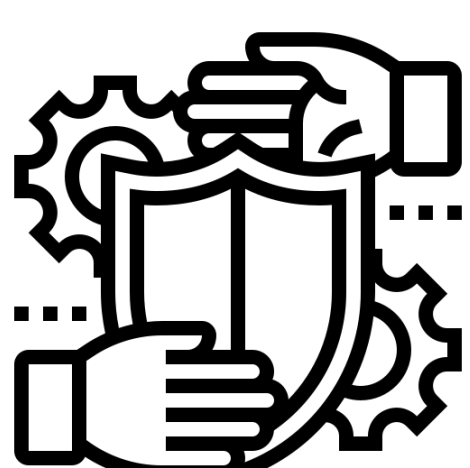
can be used with solar cells for sustainable energy with smart device that properly manage the process and prevent pump damage.

KEY BENEFITS



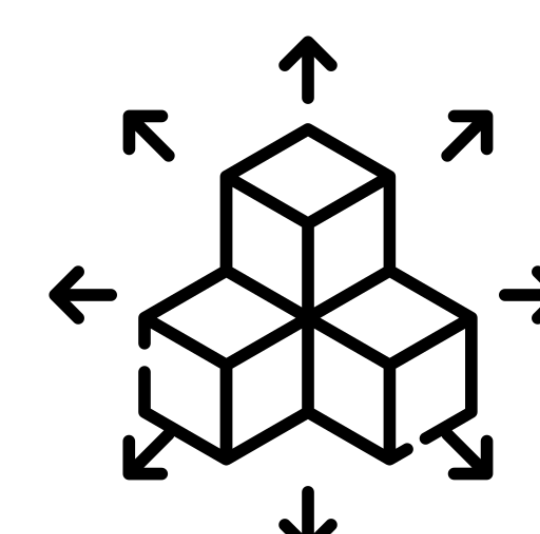
Better Power Consumption

Save more power with Premium Efficiency Motors.



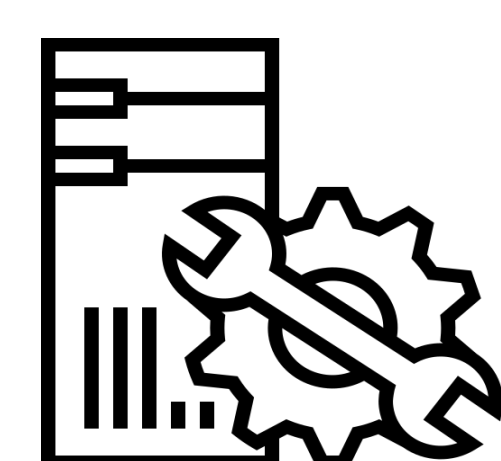
Stability and Reliability

Wings Pumps' advanced engineering provides better stability and reliability.



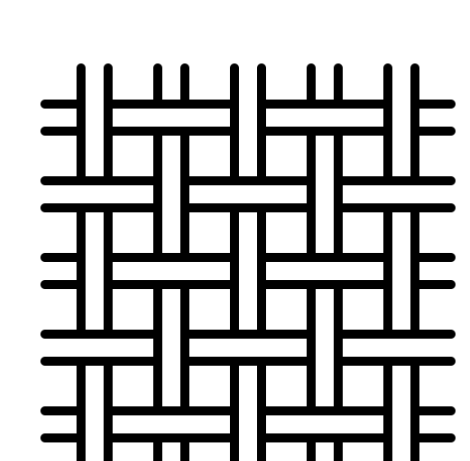
Wide Range of Operations

Wings Pumps are more versatile and can be used in a wide variety of operations.



High Flexibility in Installations

Wings Pumps can be installed perfectly in various situations and setups.



Flexibility in Material

Customize pumps with various material and composites to better suit your operations.



Internet of things

Through the cloud network system, the system organizes data and keeps tabs on the pump's operational state. User can be real-time observation possible.

FEATURES AND BENEFITS

Our new-generation mechanical/electrical axial flow electric **submersible pumps** and mixed-flow electric submersible pumps from **Wings Pumps** provides high reliability, reduced installation and maintenance costs, with a longer lifetime.

With **single-piece casting** of propellers and other components, Wings Pumps provide superior dynamic balance with extremely strong and stable operations.

Our **Premium Efficiency Motors** are manufactured according to IE 60034-30 IE3 standards, providing improved efficiency, reduced energy consumption with less impact on the environment.

Wings Pumps are engineered and designed with **Computational Fluid Dynamics** (CFD) combined with predictive AI and powerful graphics for visualizations and simulations to foresee any multi-dimensional problems.

Our **self-cleaning propeller** blade design decreases clogging and minimizes risks caused by liquids containing fibrous material or sludge.

A **slim design** offers easy installation, low vibration and low Net Positive Suction Head (NPSH)

Smart technology, highly intelligent controls with 8 points of sensor monitoring devices with optional AI and IoT expansions.

Our special Coating offers higher resistance to abrasive and corrosive effects

ISO 9001 & ISO14001 & ISO45001 certified. With ISO certification, Wings Pumps provides reliability with a high standard giving you assurance and peace of mind.



SUBMERSIBLE PROPELLER PUMP

1. Insulated Motor - for better reliability

All motors are fully submersible to a depth of at least 20 meters.

2. Unique seals provide extra safety

Our mechanical seal systems minimize shaft overhang while maximizing cooling and lubrication.

3. Sensors

Thermal sensors help prevent overheating. Leakage sensors alarms you of liquid intrusion through cables or seals.

4. Reliable and Efficient Hydraulics

Wings Pumps technology ensures maximum reliability and high efficiency.

5. Flexible Installation

Wings are designed according to the requirements of customer and suitability according to the actual situation

PREMIUM EFFICIENCY MOTORS (IE3) IN ACCORDANCE WITH IEC60034-30

Class H Insulation (Up to 180°C/356°F)

Temperature rise according to IEC / NEMA Class A

Better Savings on Power Consumption

Our highly efficient motors provide more savings with lower power consumption.

Better for the Environment

Our pumps are designed to be more more environmentally-friendly and have minimal impact on any ecosystem.

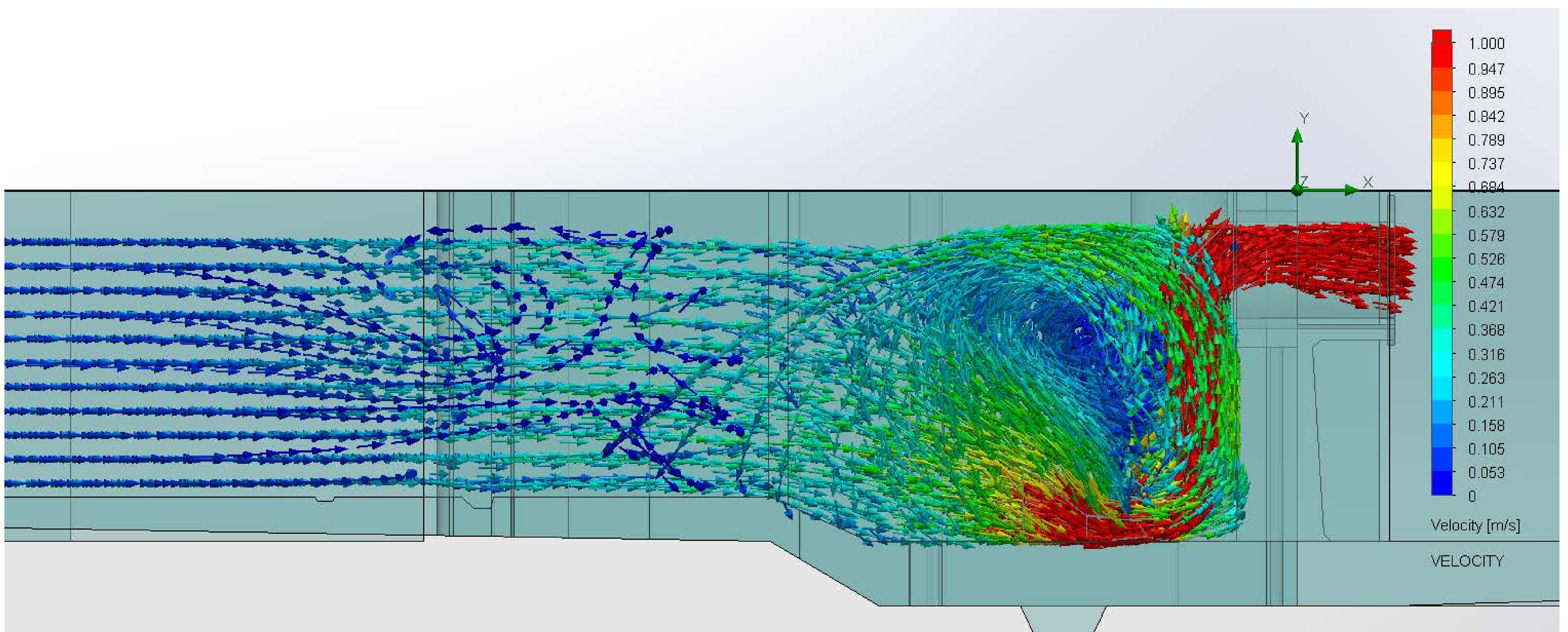
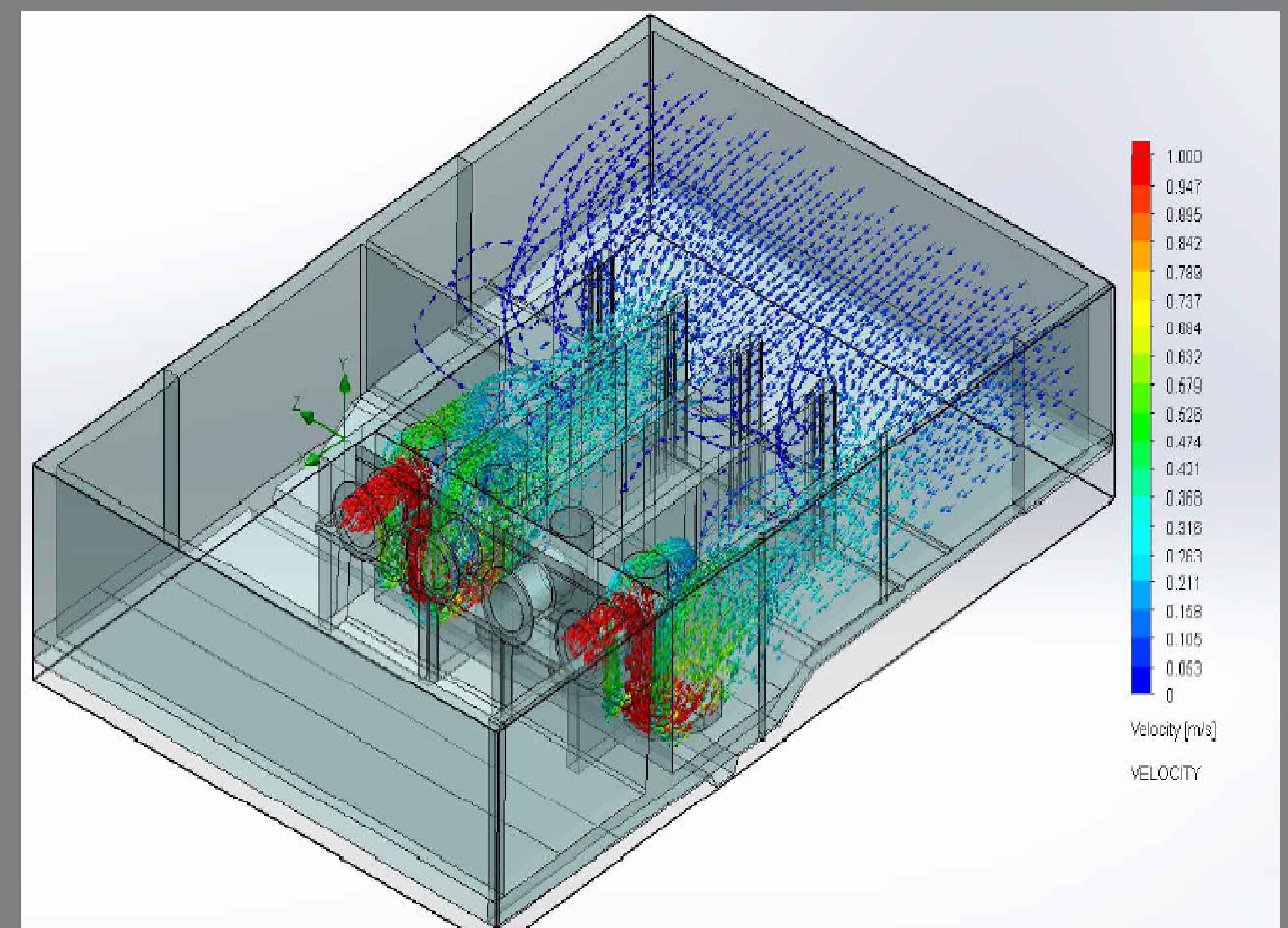
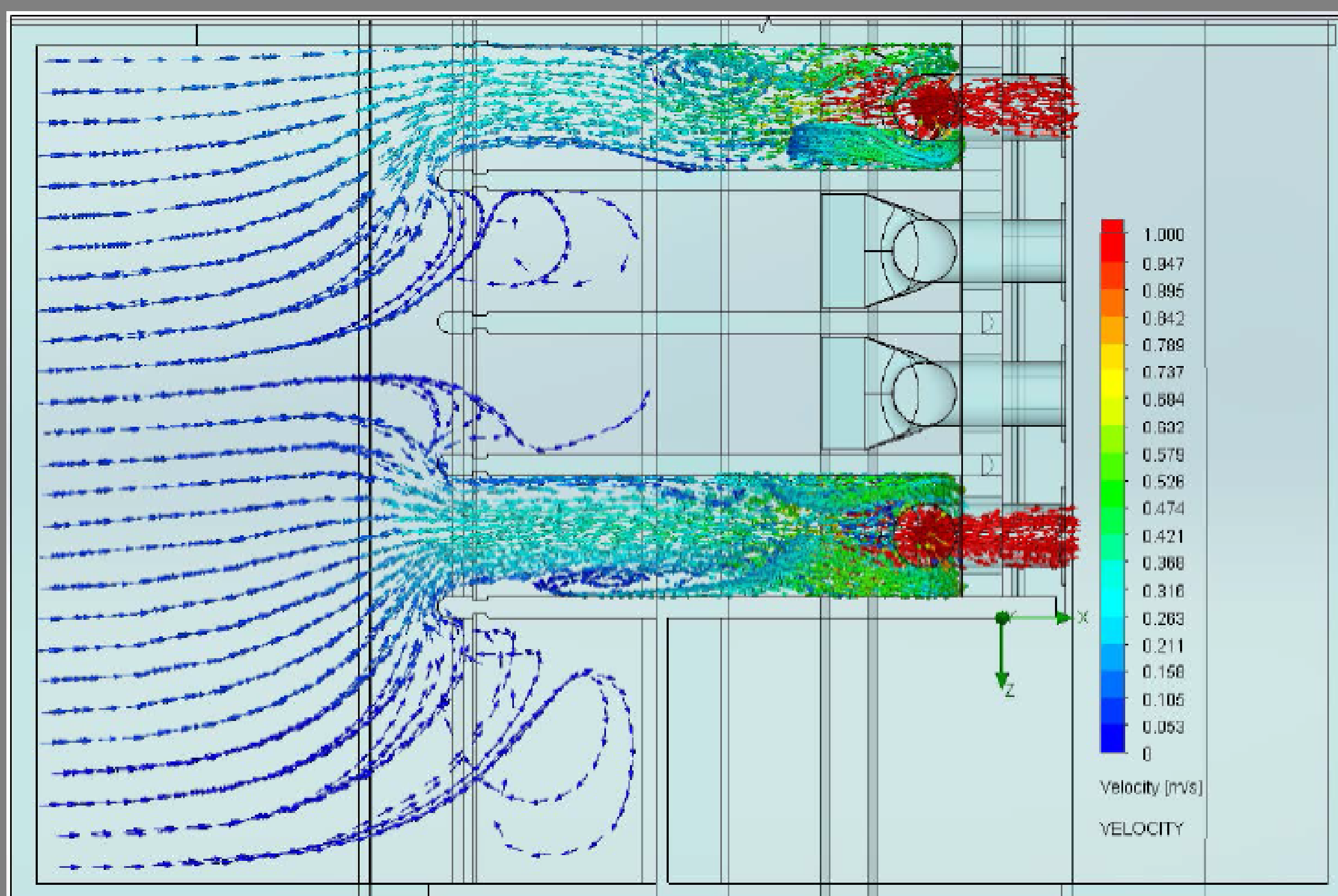
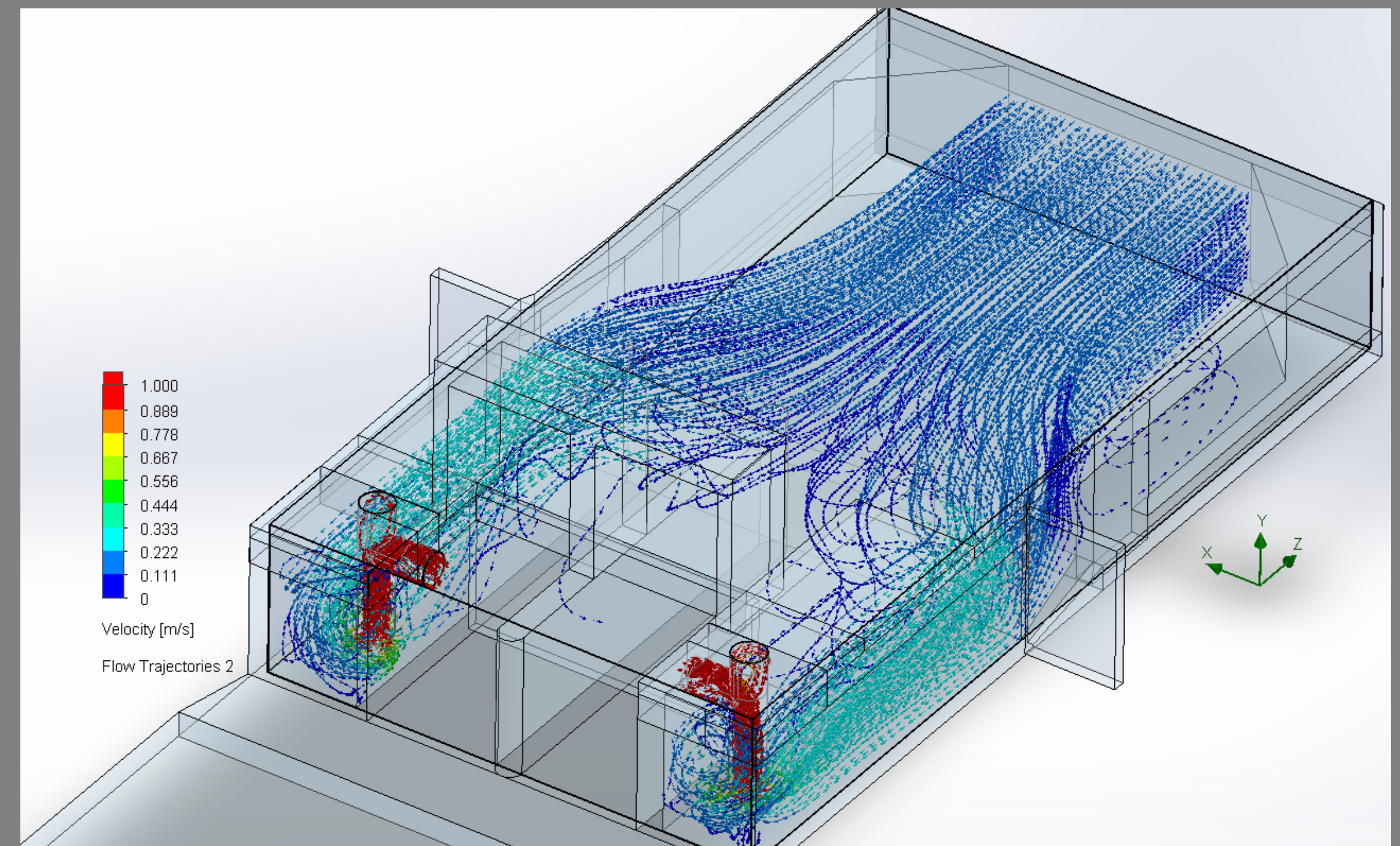
DOUBLE MECHANICAL SEAL

Double mechanical seals are designed to ensure maximum sealing safety. These seals virtually eliminate leakage of the fluid being handled in pumps. Made by SiC, Carbon, Cement Carbide and special requires.



Designed and Engineered for Optimum Efficiency and Reliability with CFD

Wings is proud to be both designer, engineer and provider of water solutions. This is what gives us the ability to cooperate closely with the client and deliver results that fit their requirements, demands and needs. Besides engineering for our own projects, we can also offer design and engineering services to third parties. This way we are able to help all side involved to further develop water solutions that benefit businesses and the community.



SMART PROTECTION TECHNOLOGY WITH SENSOR MONITORING

Winding Temperature measurement component

For stator coil over-Temperature protection with PT100 in Phase A, Phase B and Phase C

Water leakage float switch in Junction box

When the junction box leaks, the float switch state will switch and the resistance R is approximately equal to 0

Water leakage float switch in motor

In case of leakage in motor cavity, the float switch state will switch and the resistance R is approximately equal to 0

Water leakage electrode in Oil chamber

When water enters oil and reaches 10%, The resistance of oil and water mixed liquor will be less than 33kΩ

Bearing Temperature sensor in forward direction

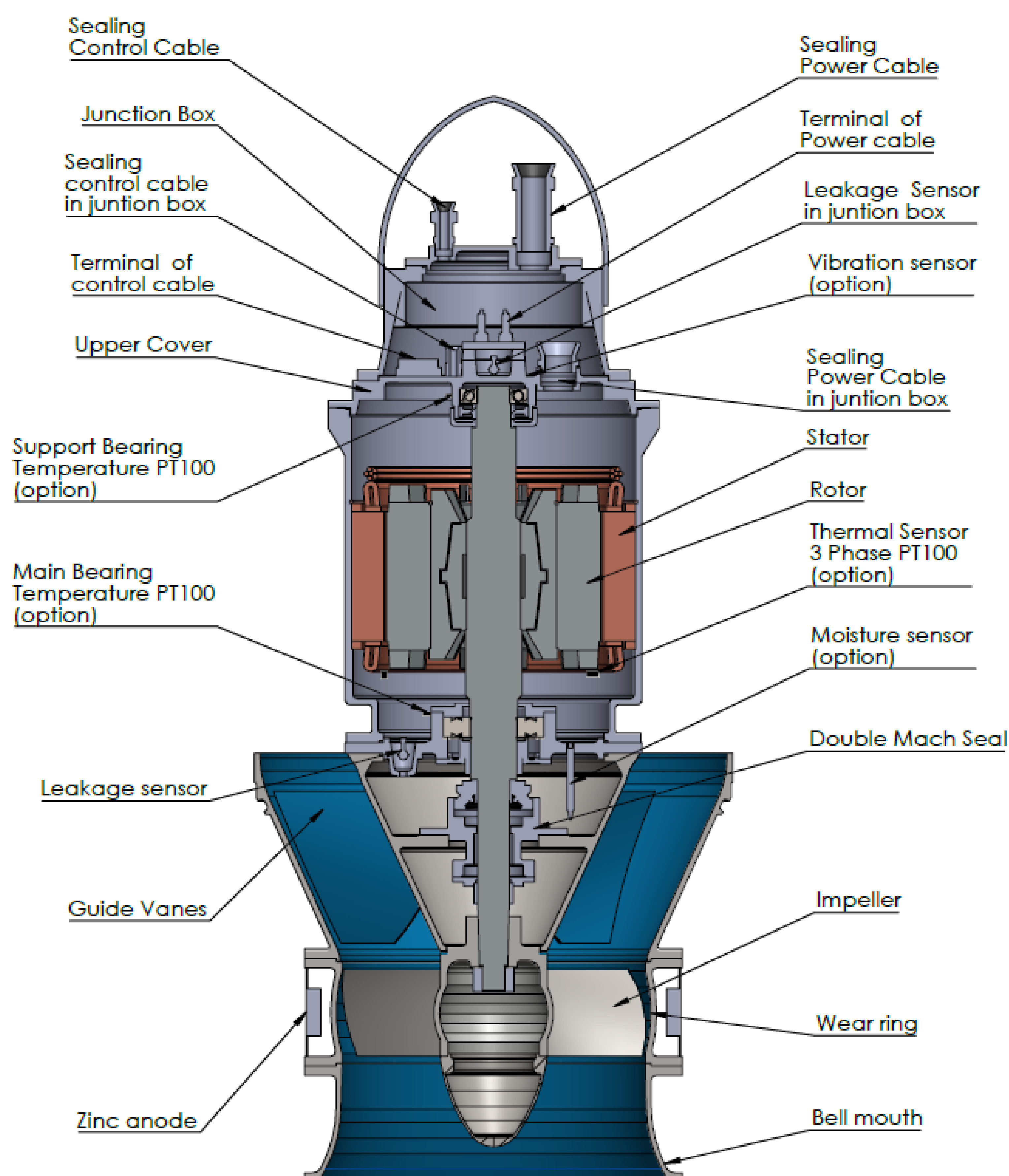
The manifold block temperature measurement component PT100 send out directly proportional milliampere-level electric quantity signal

Vibration monitoring sensor

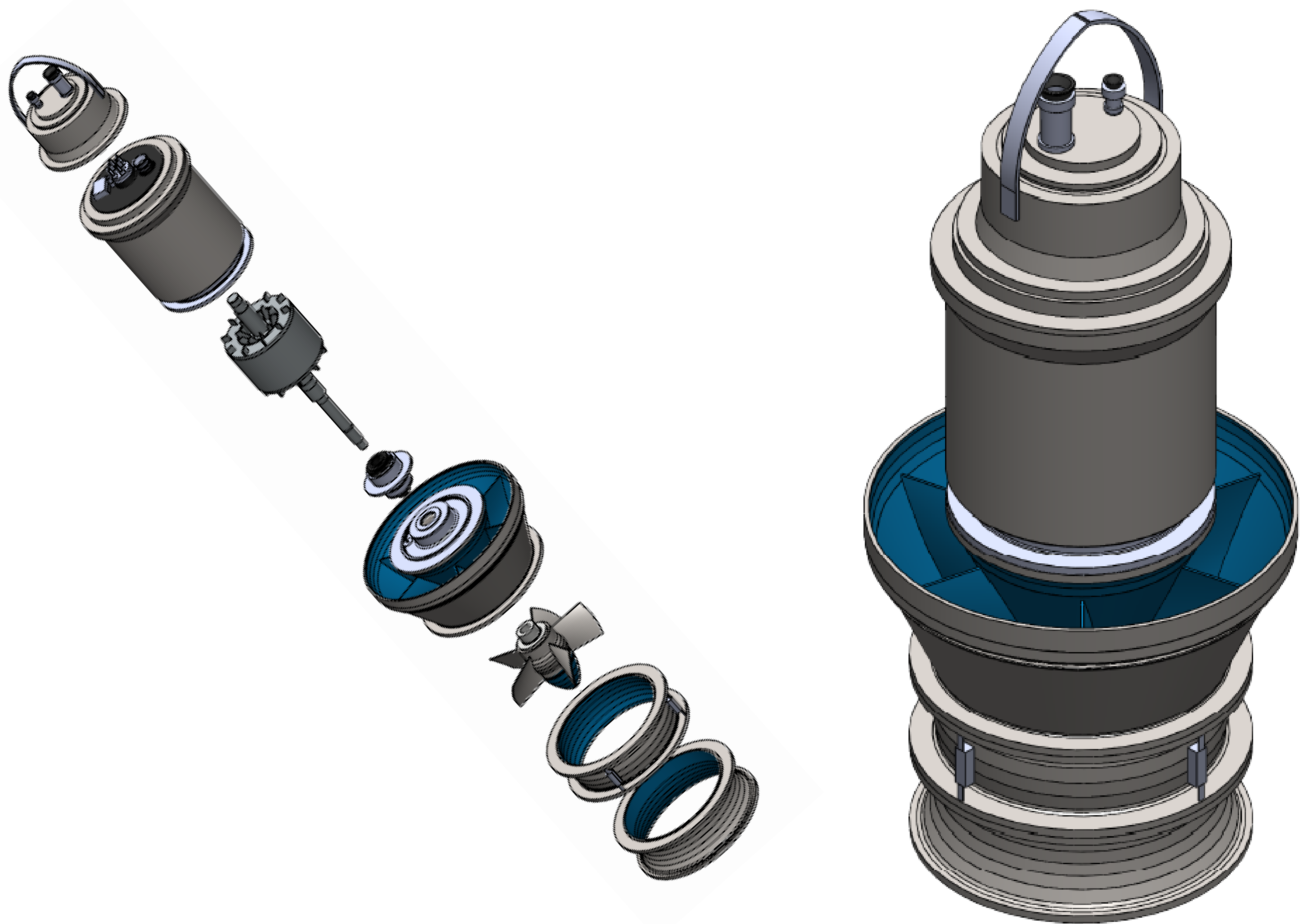
Sensors that monitor the level of vibration

Moisture Detector in Stator Housing (Optional)

Detects levels of moisture

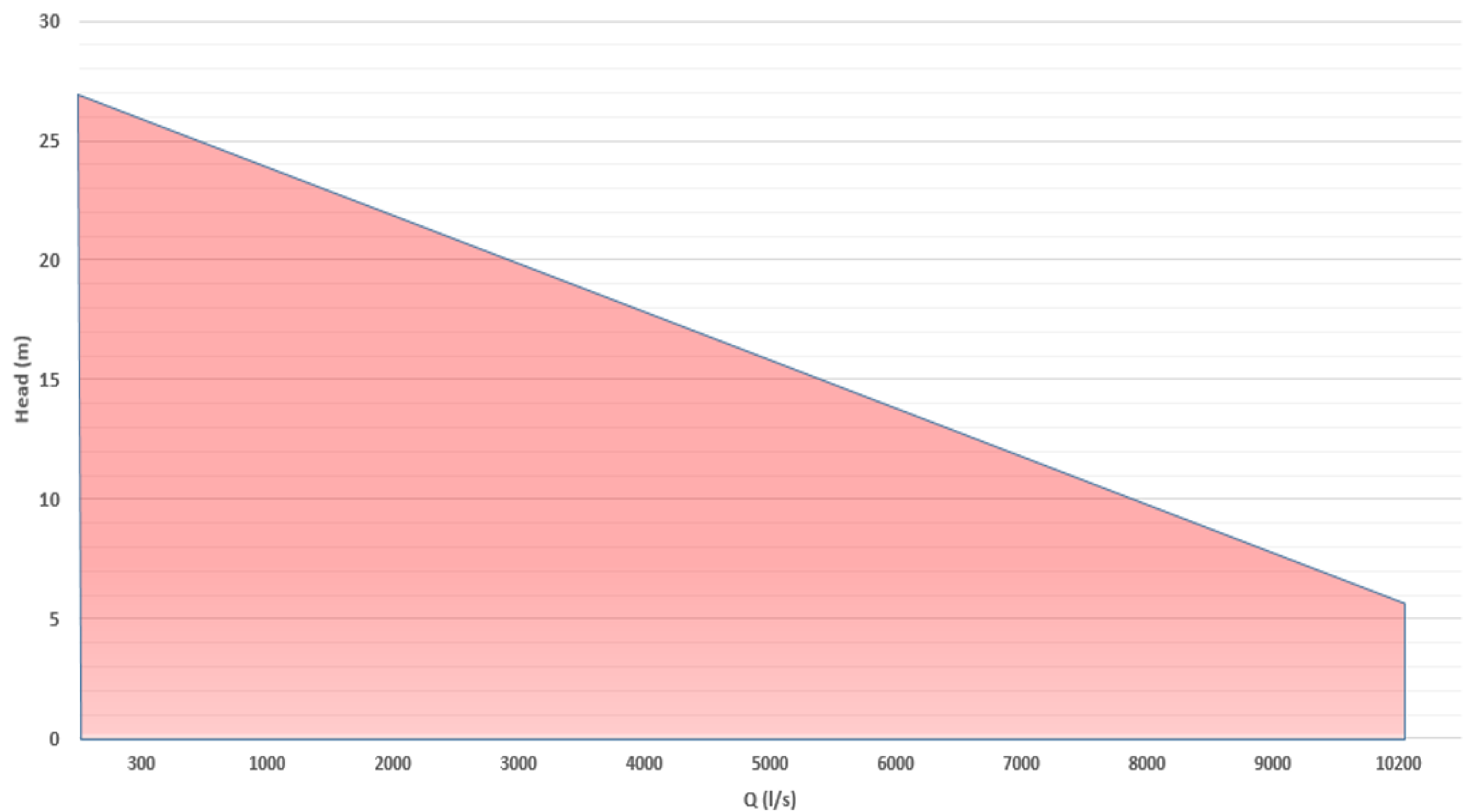


MATERIAL



| PUMP PART | MATERIAL |
|----------------------------------|---|
| Motor housing/connection chamber | FC250 or customer request |
| Oil chamber/bearing flange | FC250 or customer request |
| Pump Shaft | SUS420J1, SUS329J3L, SUS316 or customer request |
| Pump Bowl and Diffusion vane | FC250, FC300 or customer request |
| Inlet bell mouth | FC250, FC300, SUS316 or customer request |
| Propeller | SUS420J1 ,SUS316Ti,SUS304 or customer request |
| Wear ring | SUS420J1, SUS316, SUS304 or customer request |
| Lifting hoop | SUS316, SUS 304 or customer request |

OVERVIEW RANGE

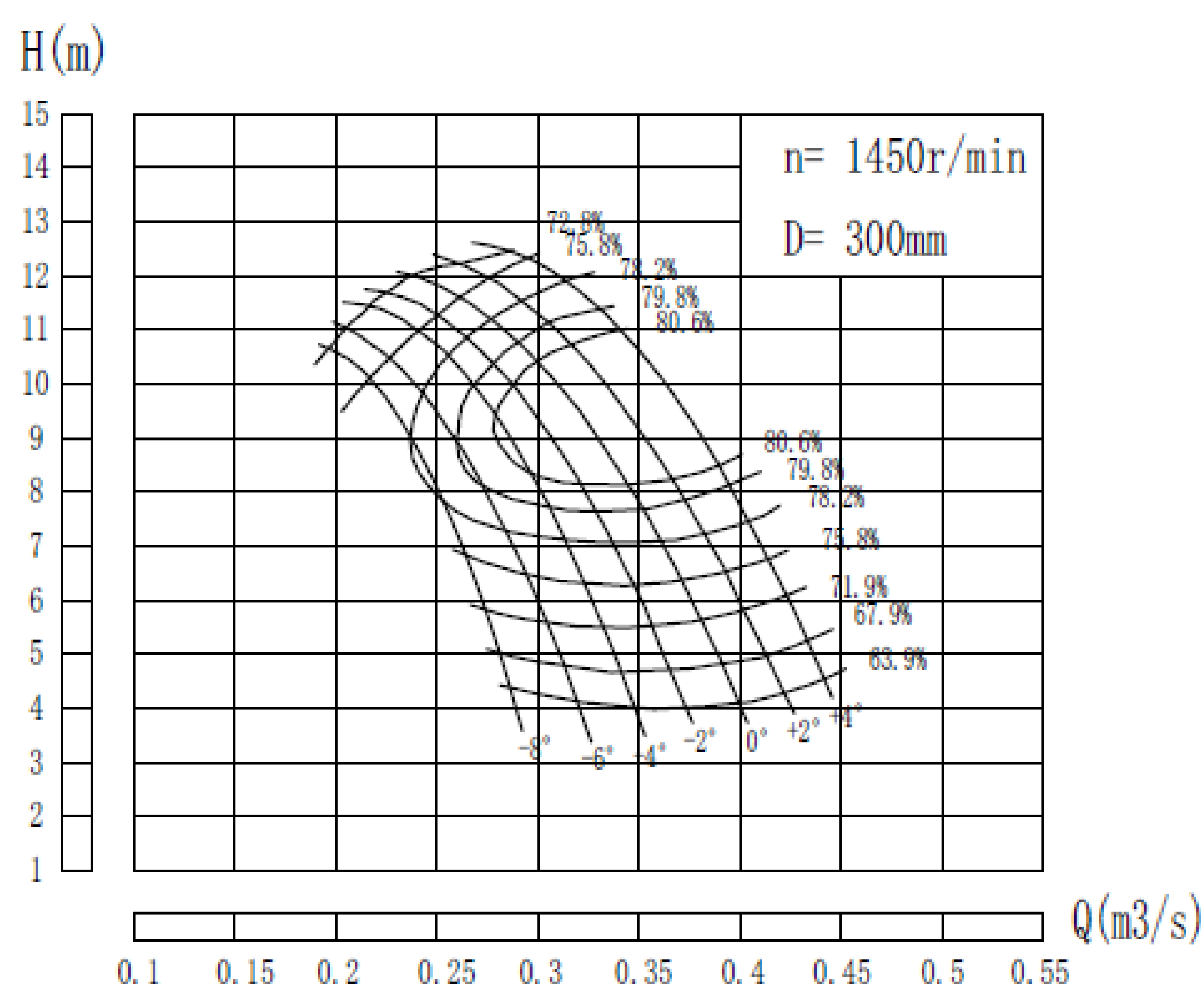


| PERFORMANCE | 50 HZ |
|----------------------|------------------|
| Capacity | Up to 10,200 l/s |
| Head | Up to 27.4 m |
| Motor Power | 7.5 to 1,500 kW |
| Column pipe Diameter | 300 to 1,400 mm |

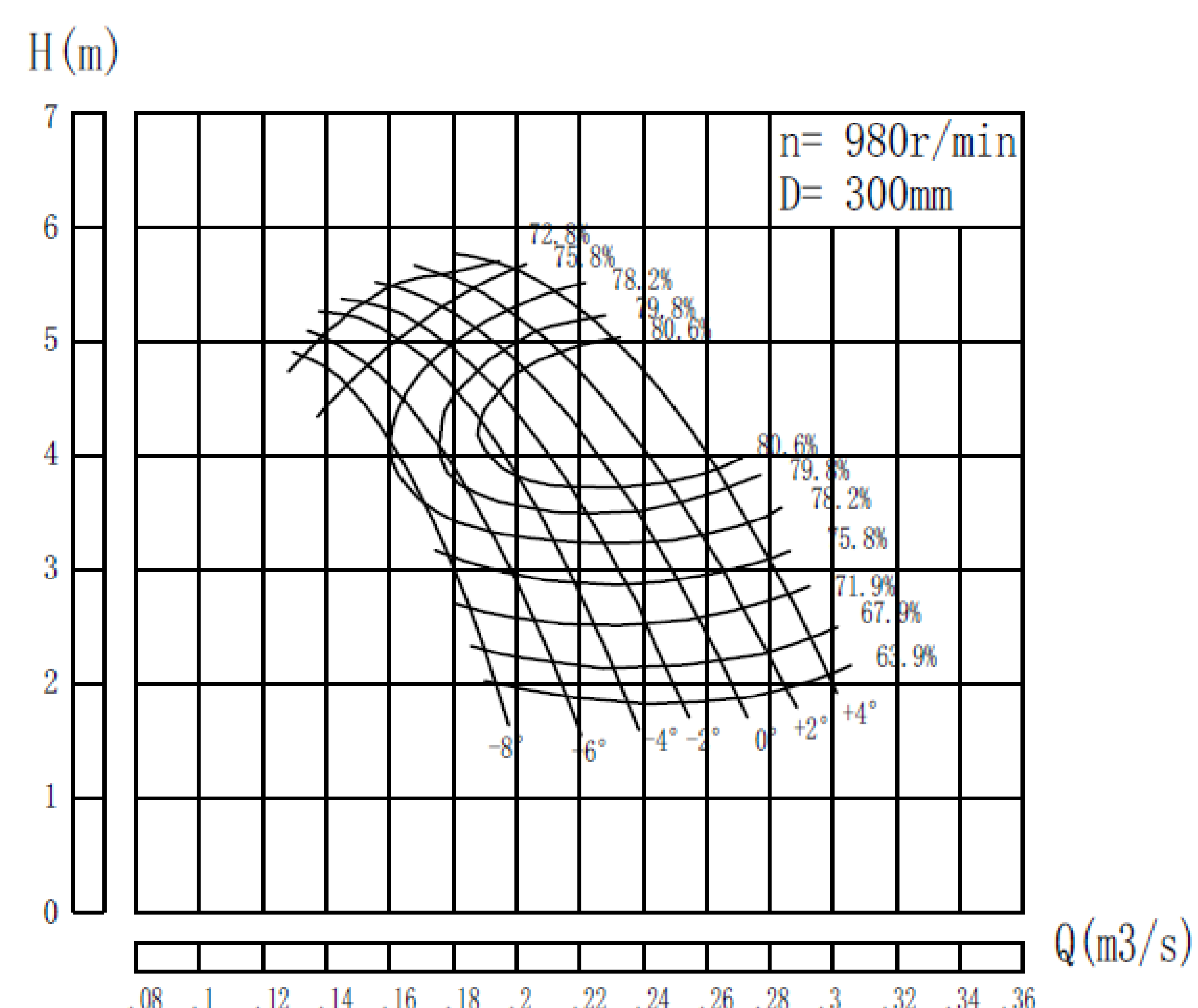
Performance Curve

Axial flow & Axial Mixed flow Overview curve

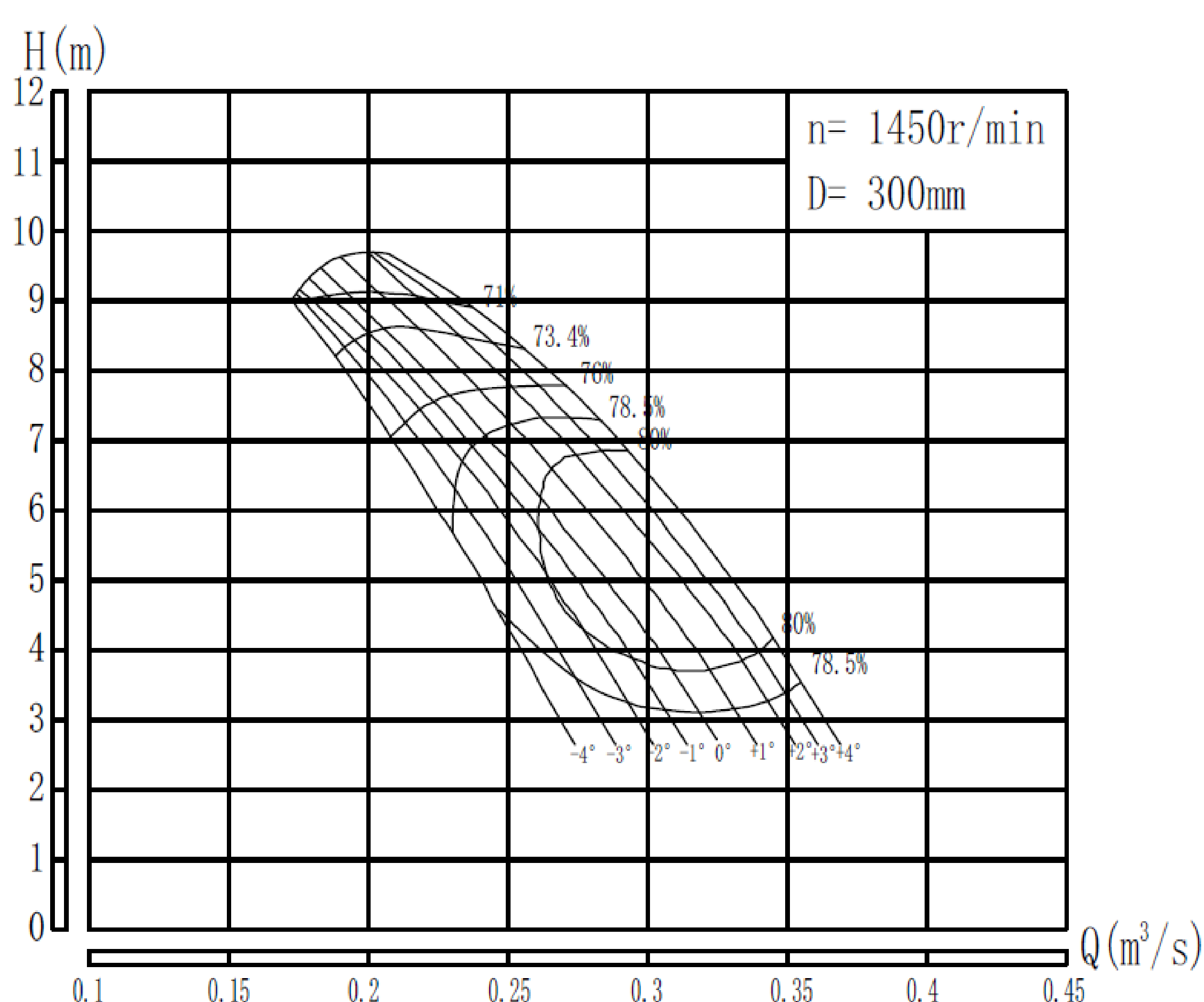
Performance Curve of VSP9045.350/300



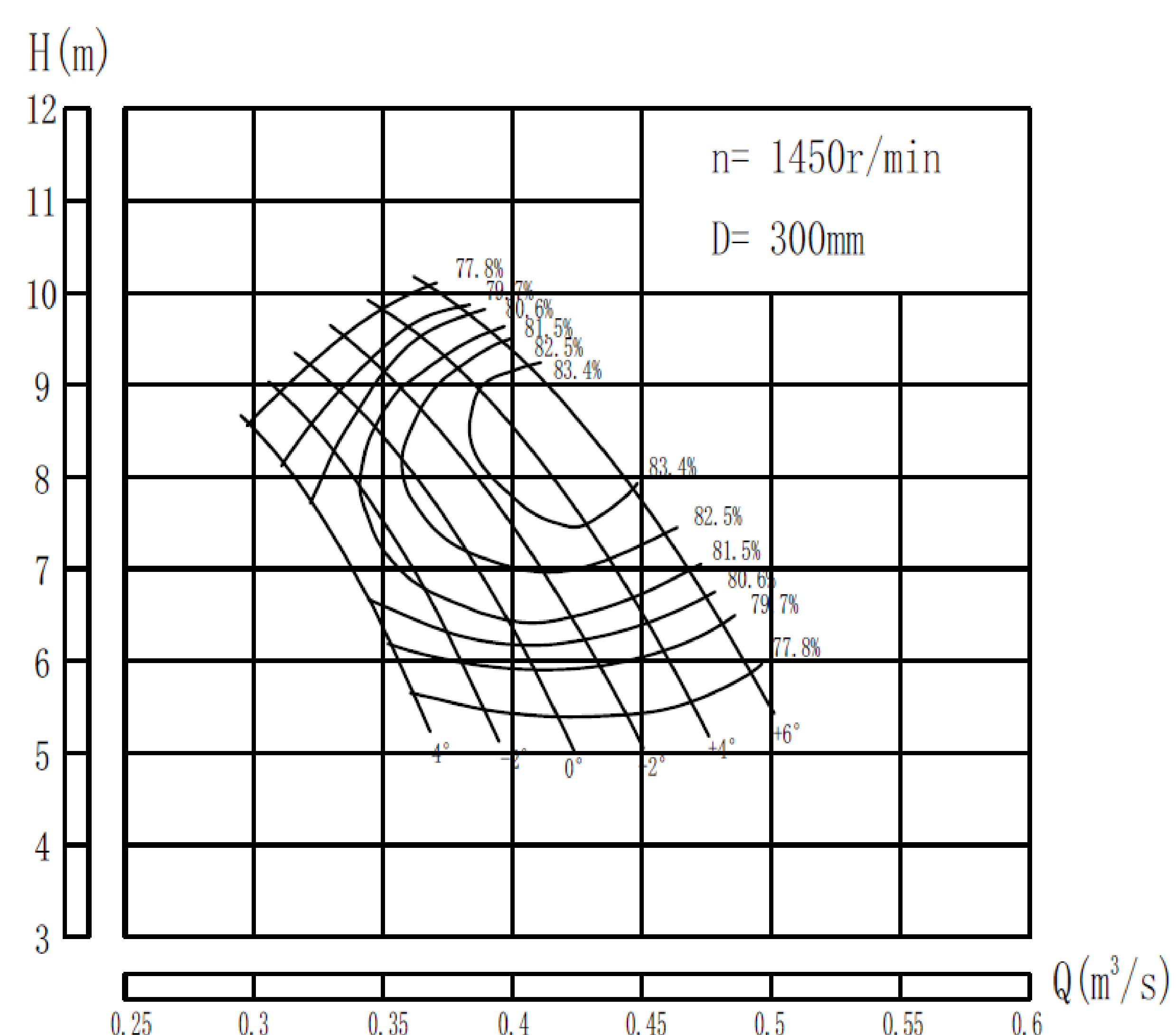
Performance Curve of VSP9015.350/300



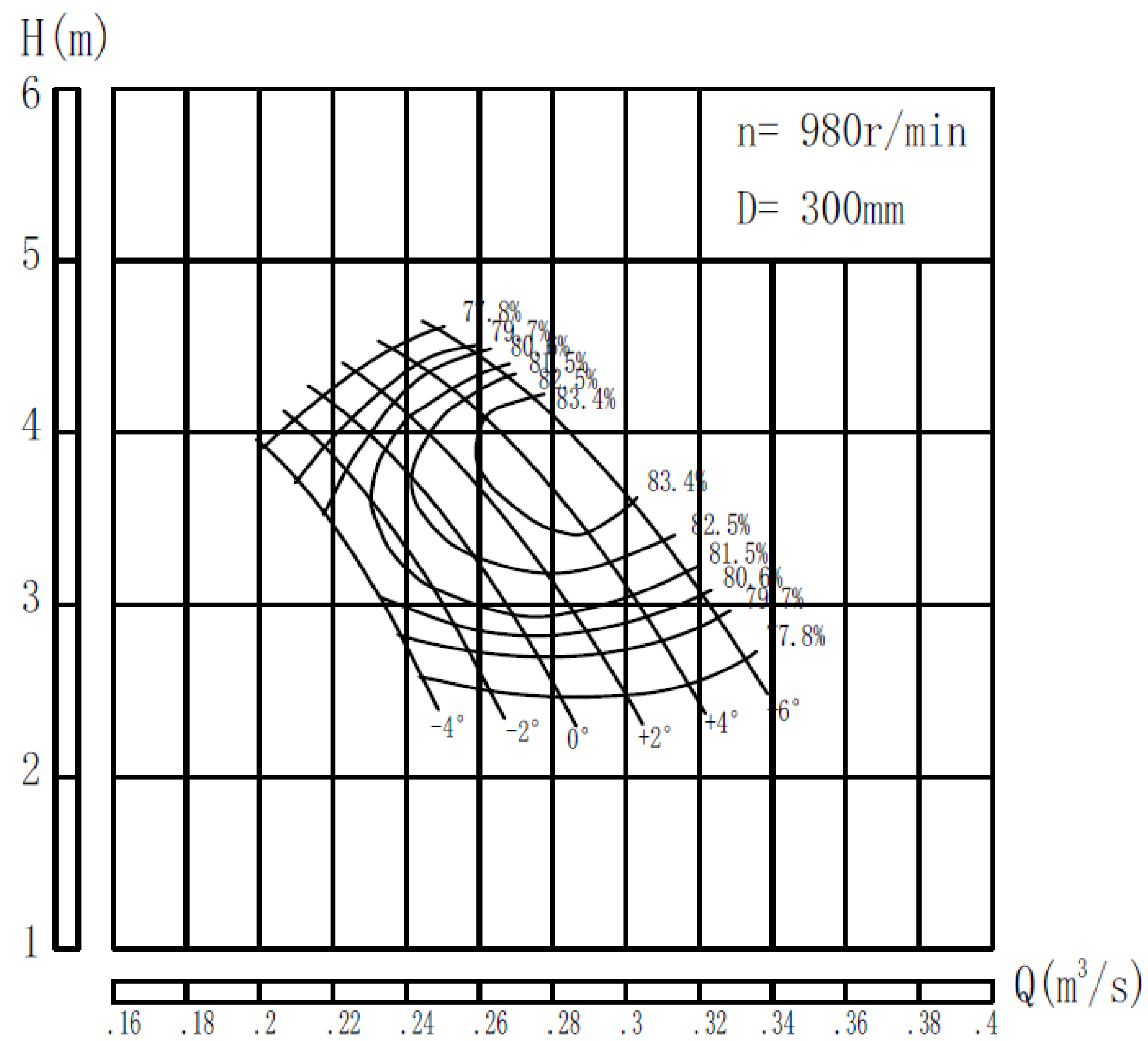
Performance Curve of VSP9037.350/300



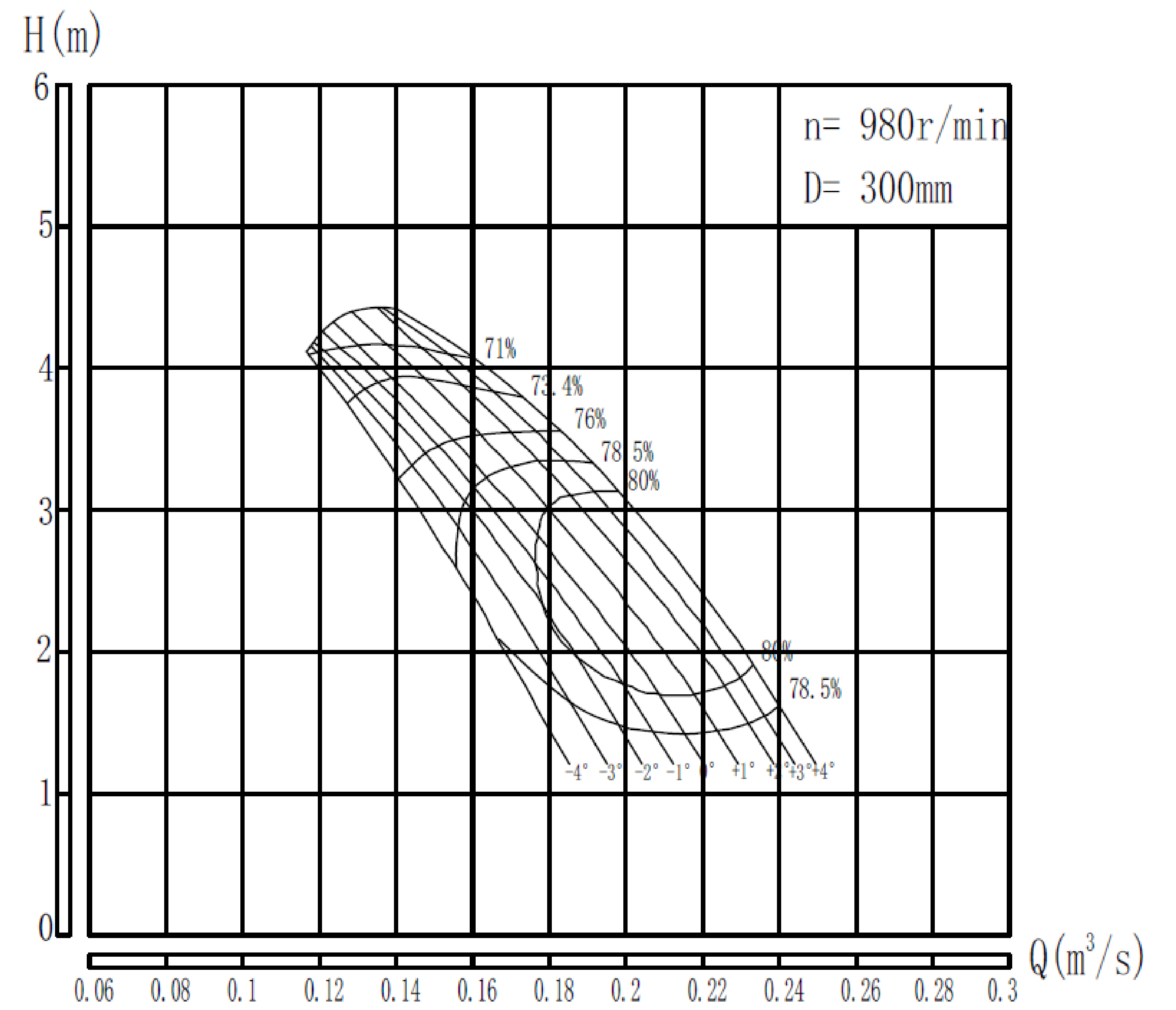
Performance Curve of VSP9037.350/300



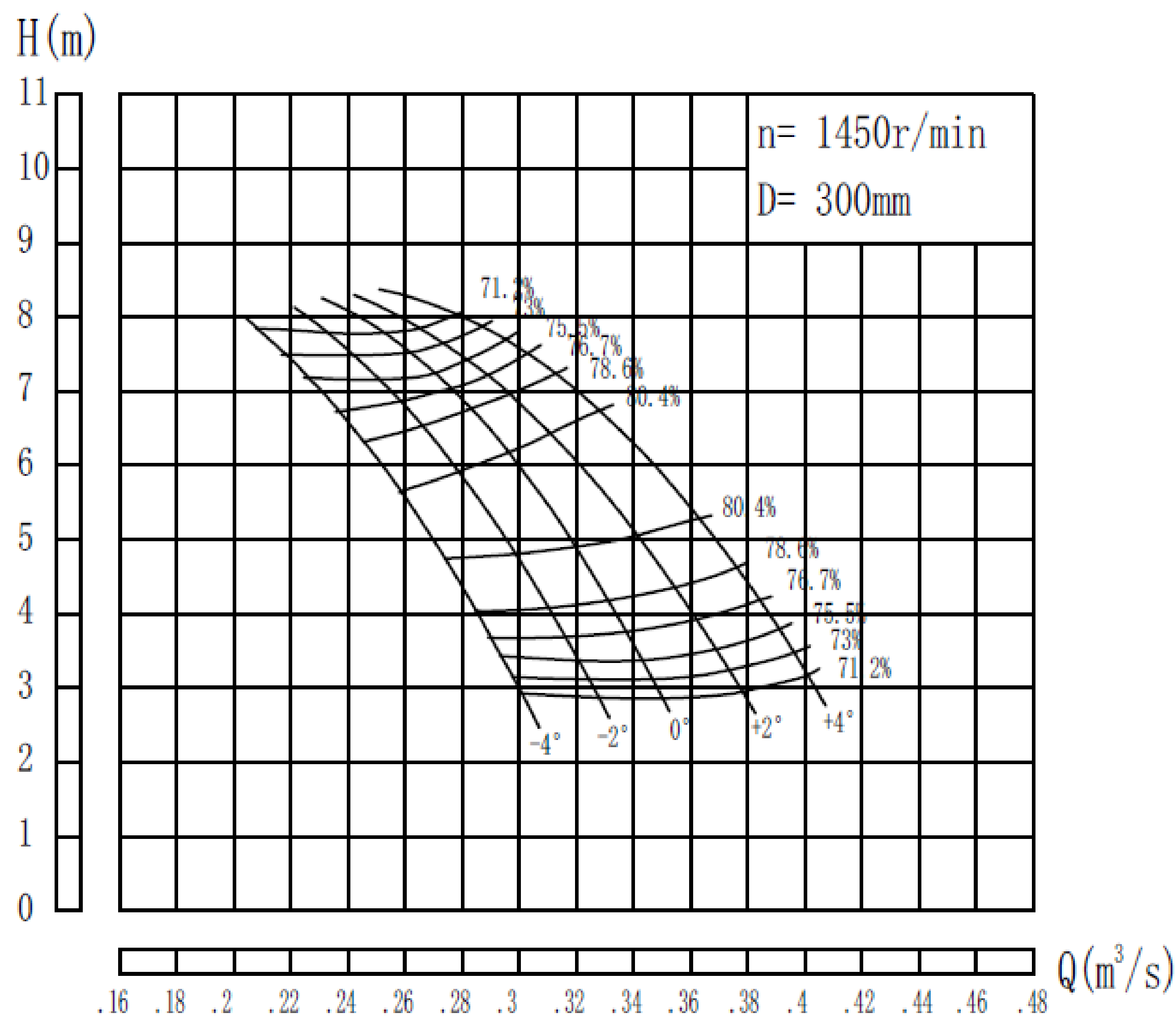
Performance Curve of VSP9015.350/300



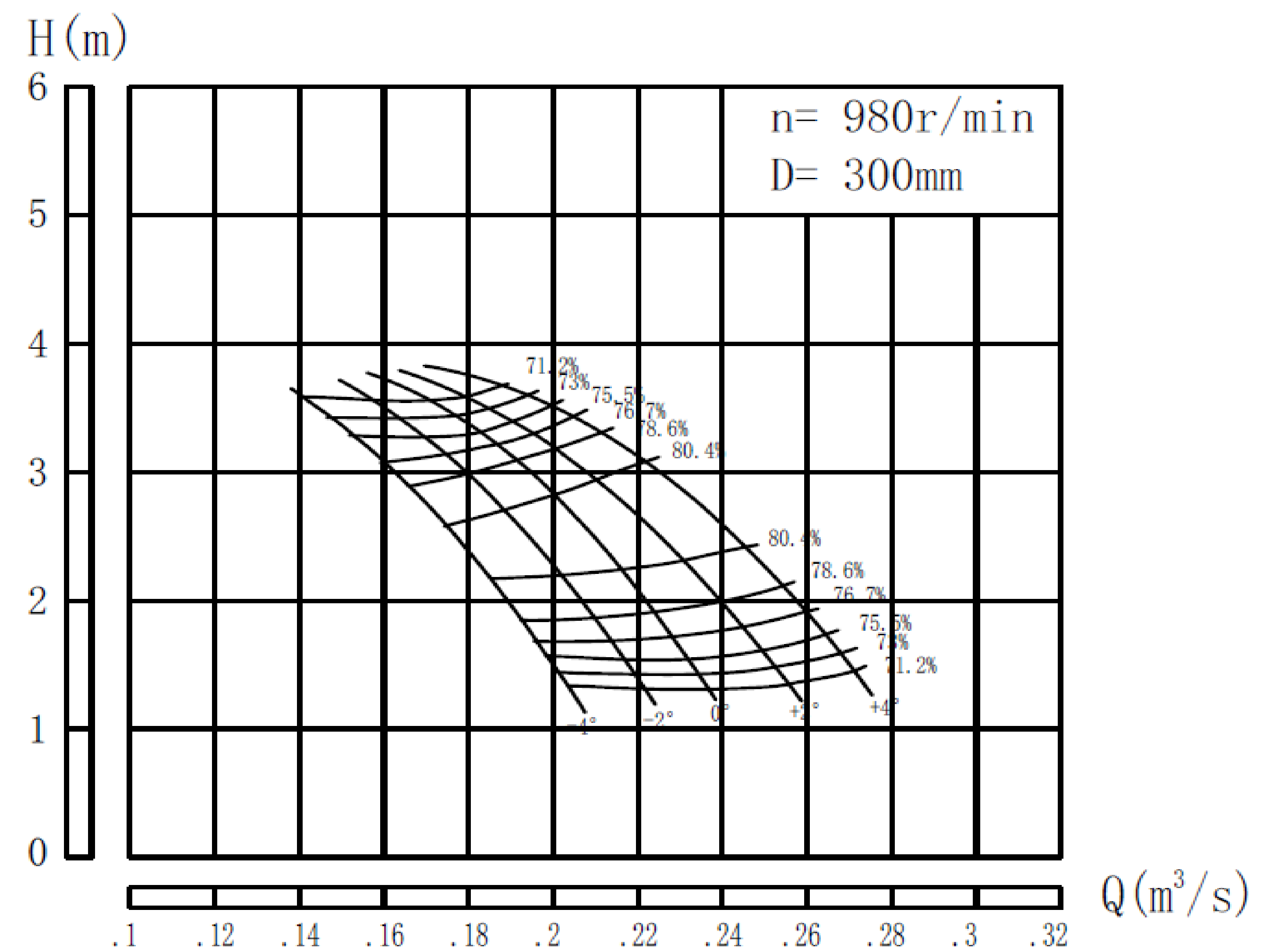
Performance Curve of VSP9011.350/300



Performance Curve of VSP9045.350/300



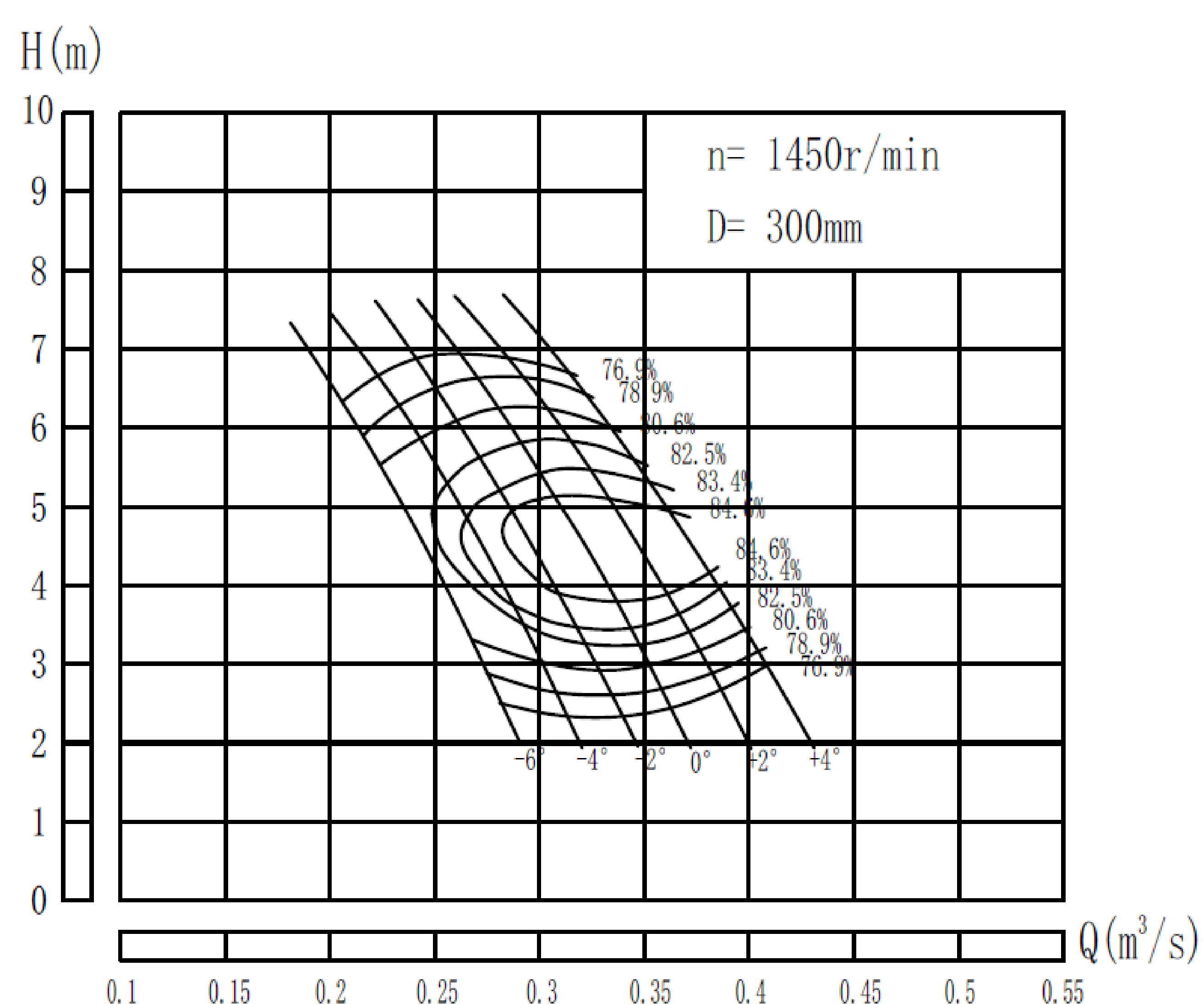
Performance Curve of VSP9015.350/300



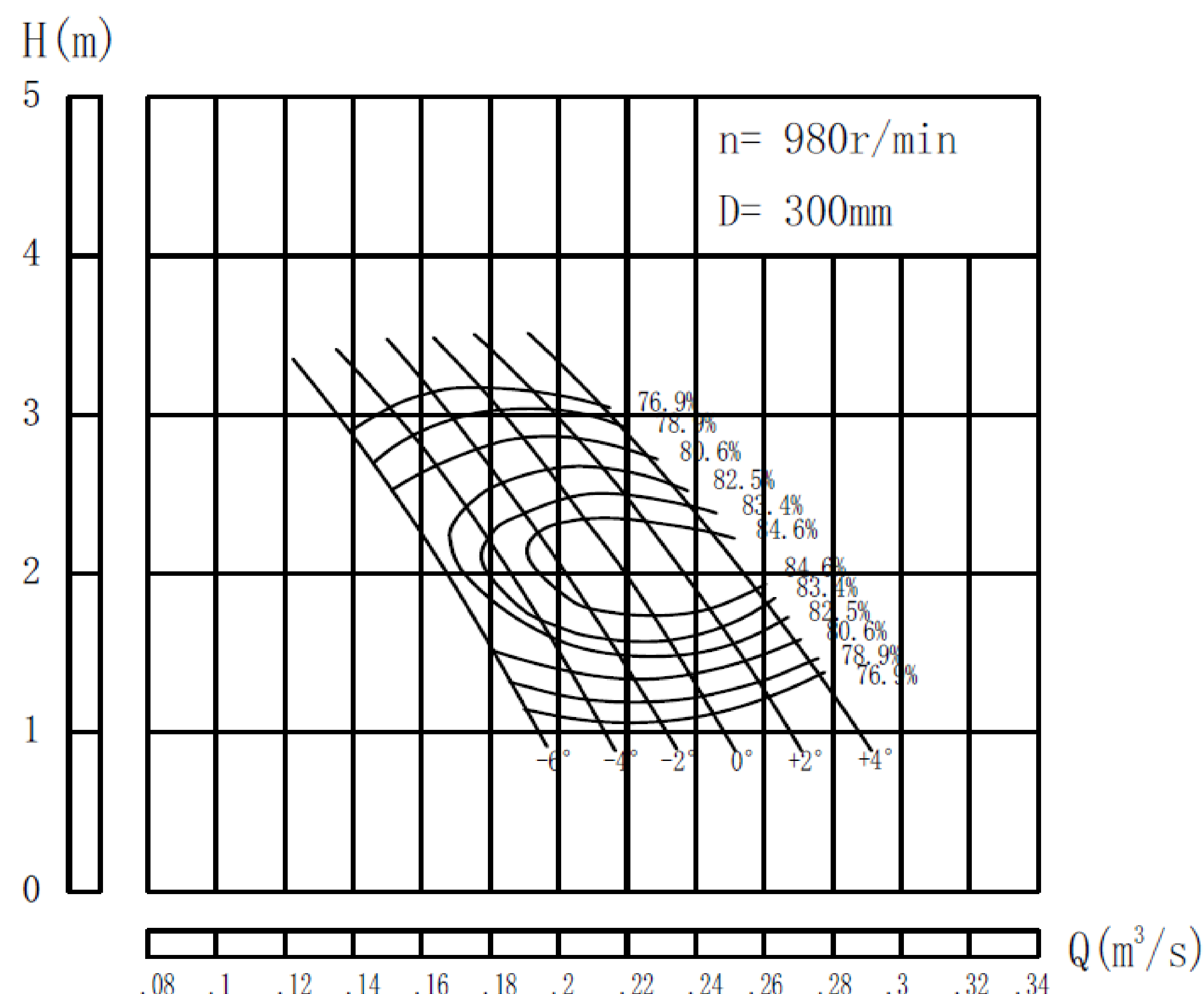
Performance Curve

Axial flow & Axial Mixed flow Overview curve

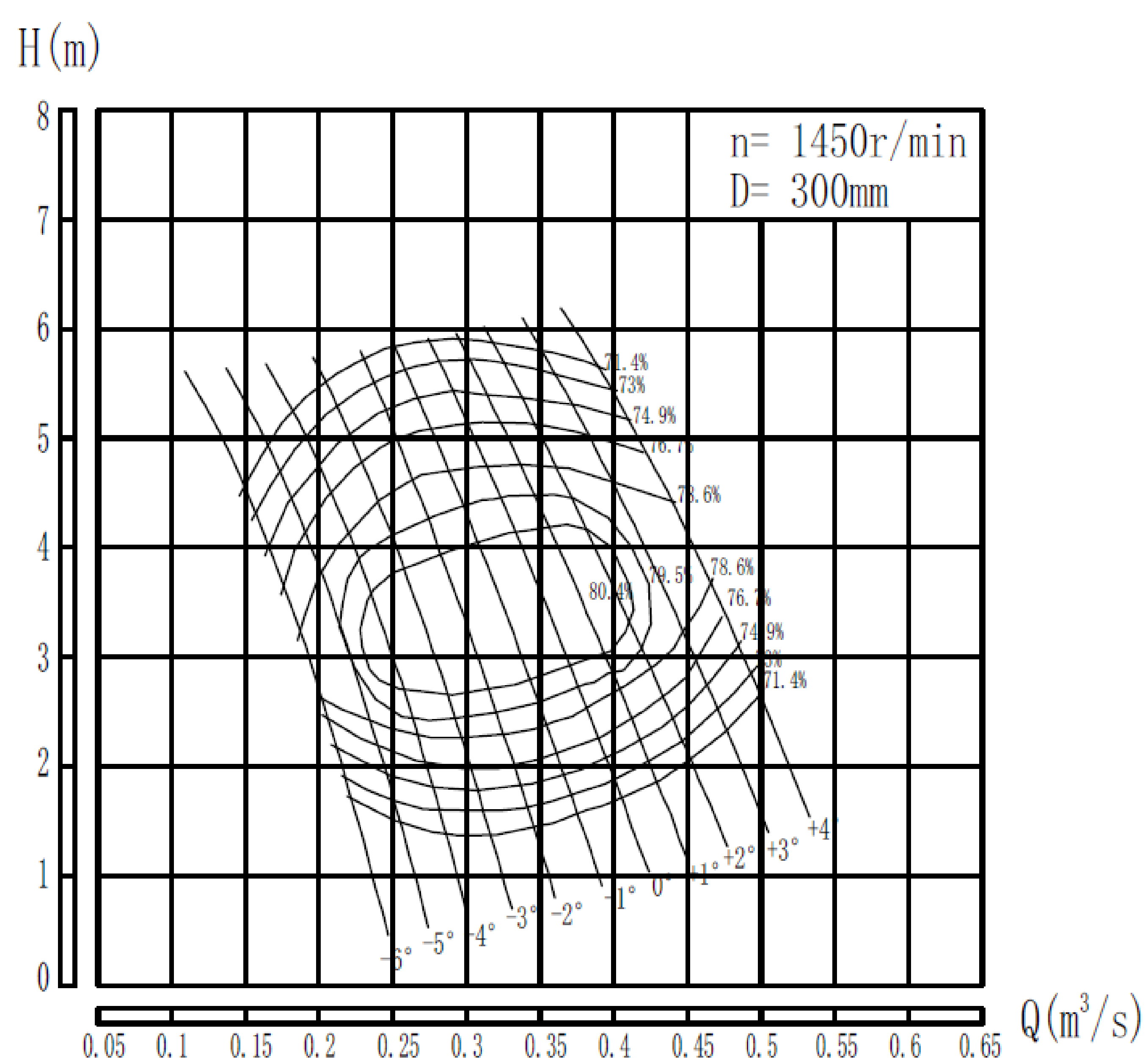
Performance Curve of VSP9037.350/300



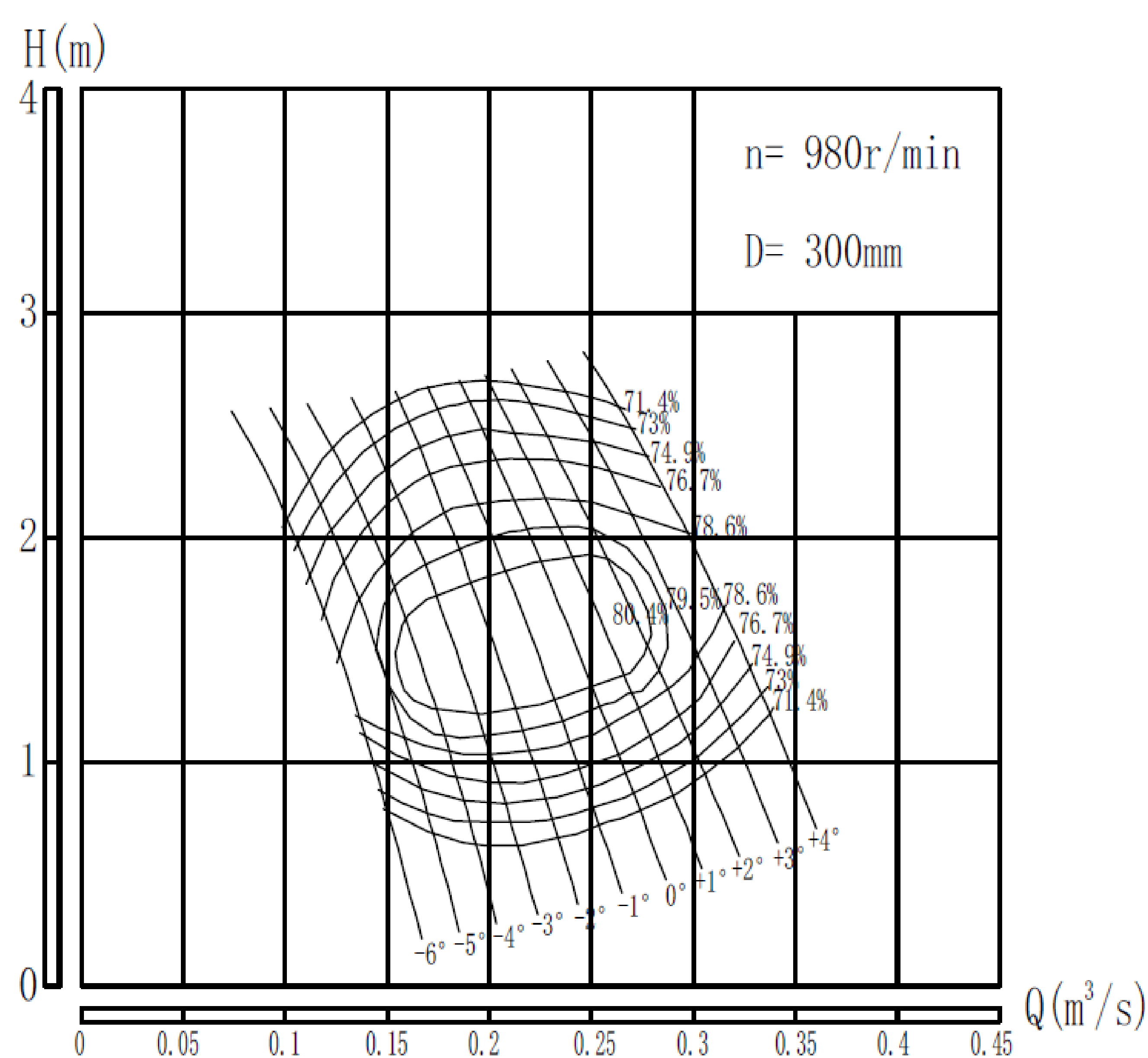
Performance Curve of VSP9011.350/300



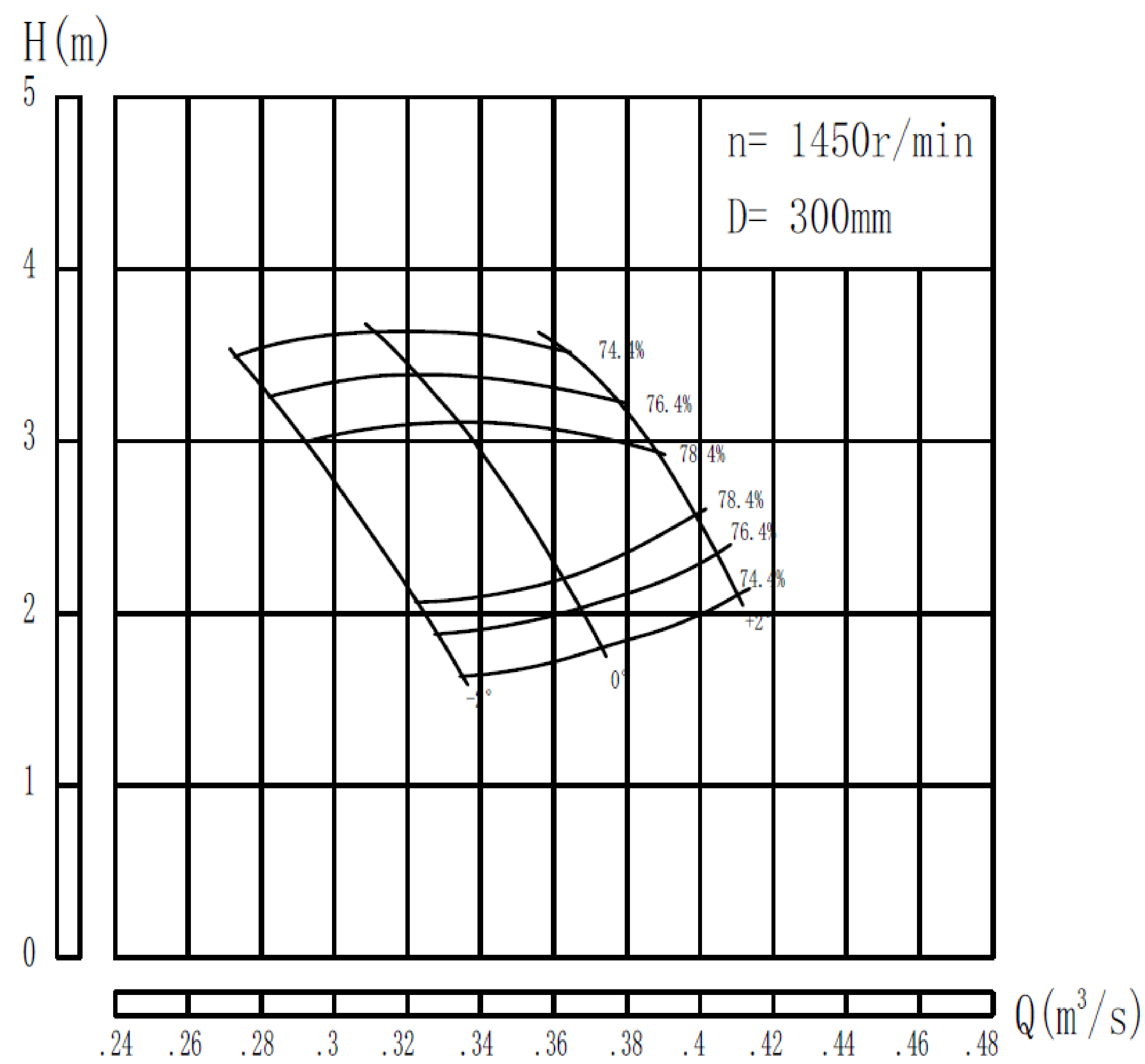
Performance Curve of VSP9037.350/300



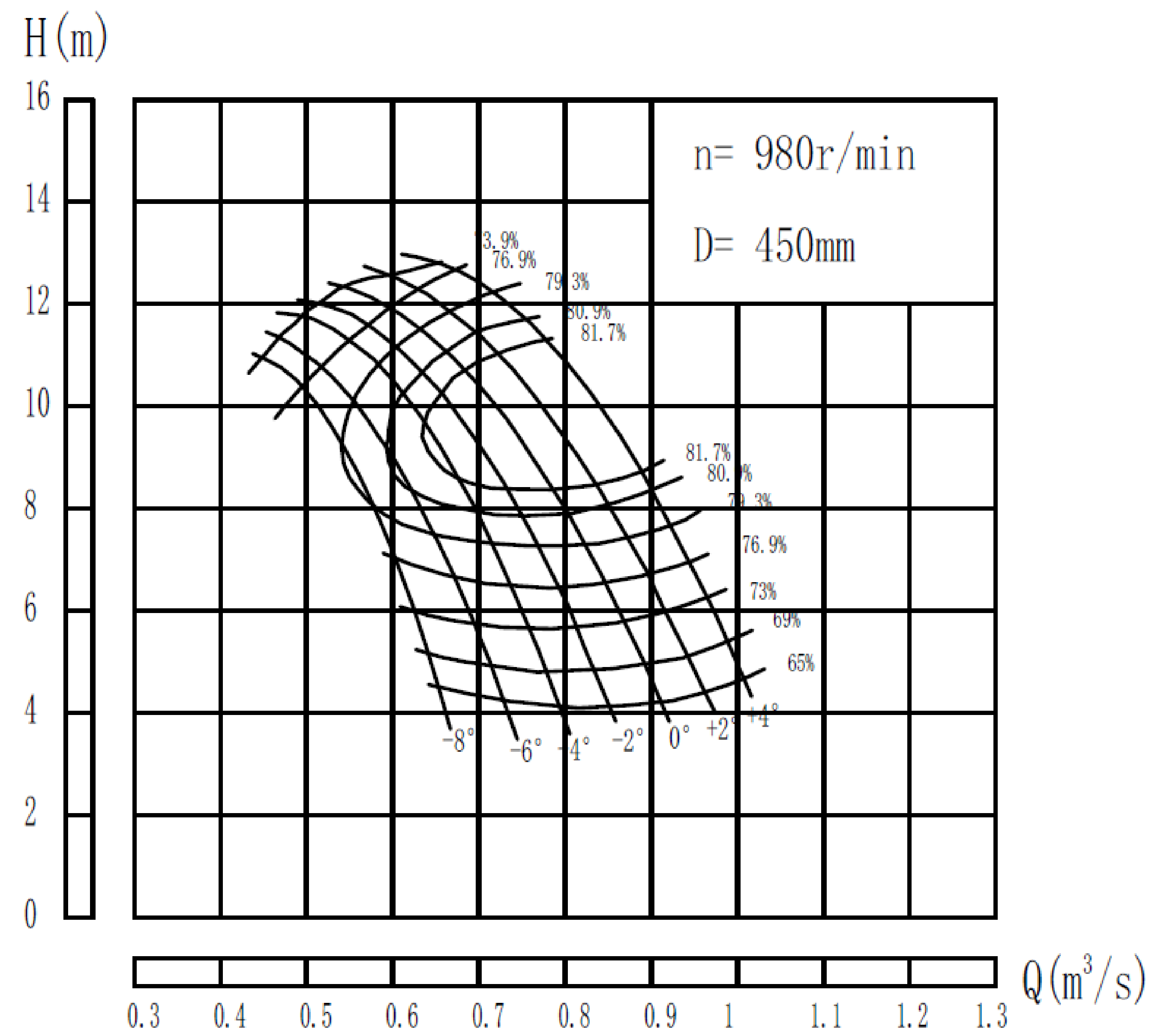
Performance Curve of VSP9011.350/300



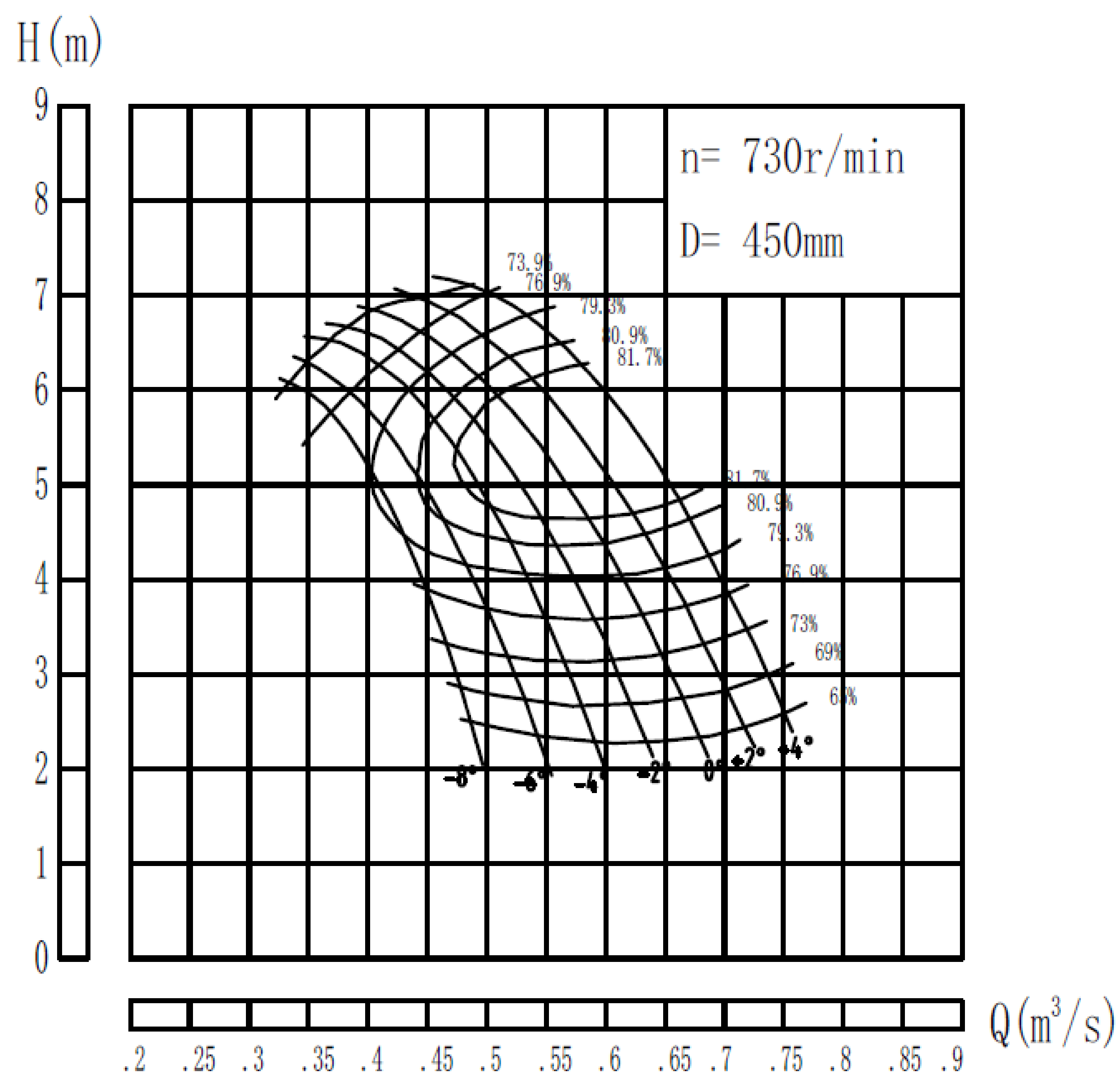
Performance Curve of VSP9022.350/300



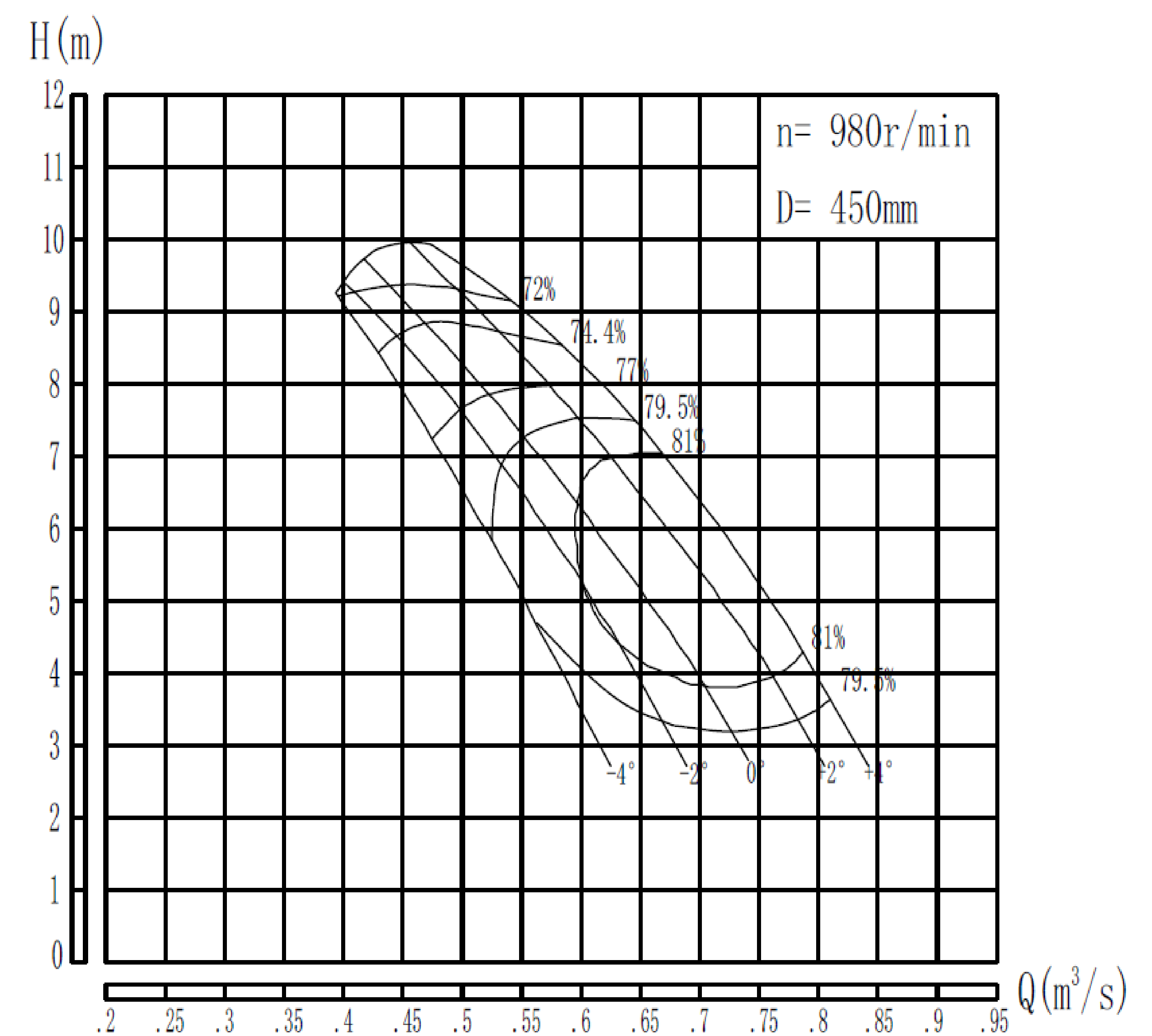
Performance Curve of VSP9110.500/450



Performance Curve of VSP9045.500/450



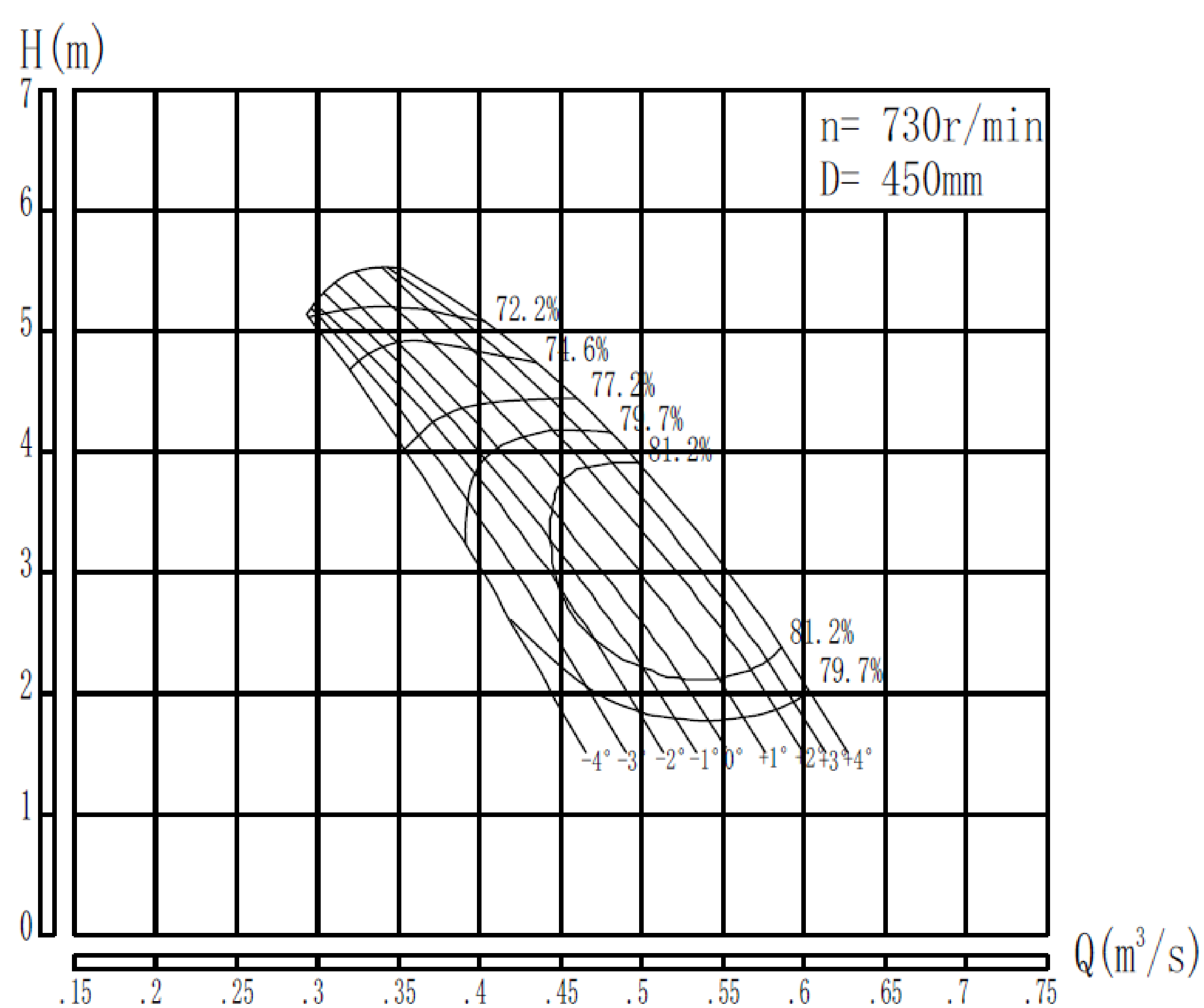
Performance Curve of VSP9075.500/450



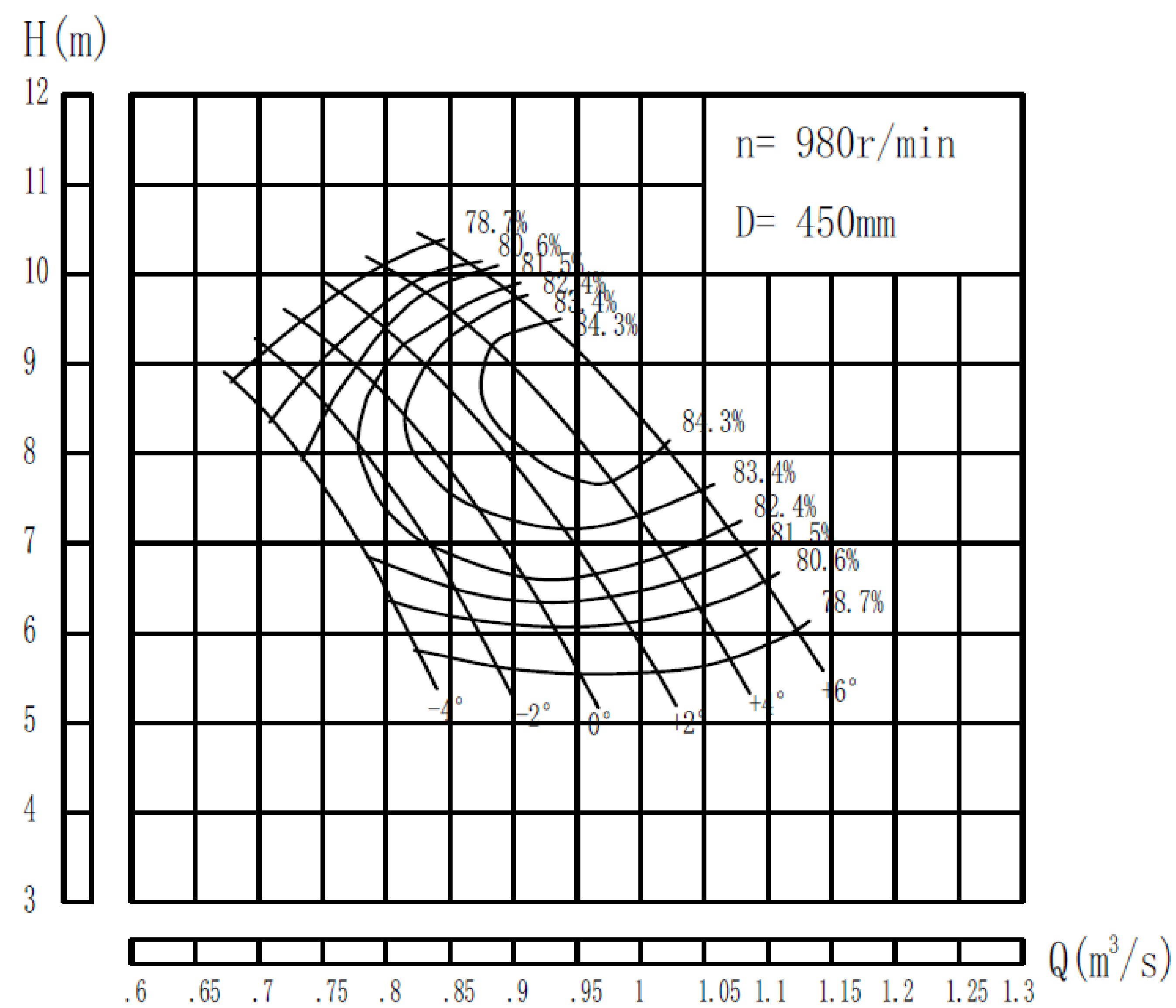
Performance Curve

Axial flow & Axial Mixed flow Overview curve

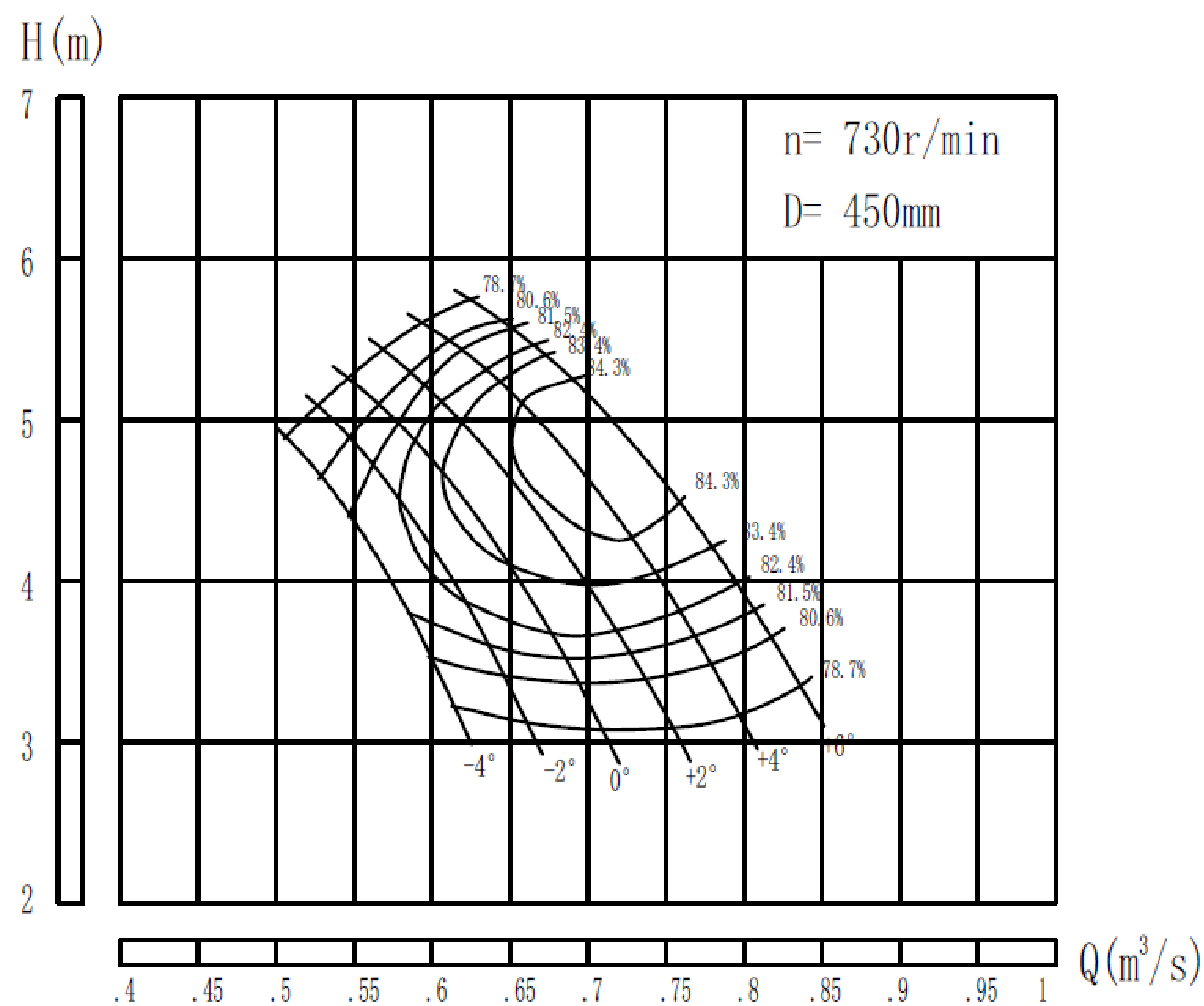
Performance Curve of VSP9030.500/450



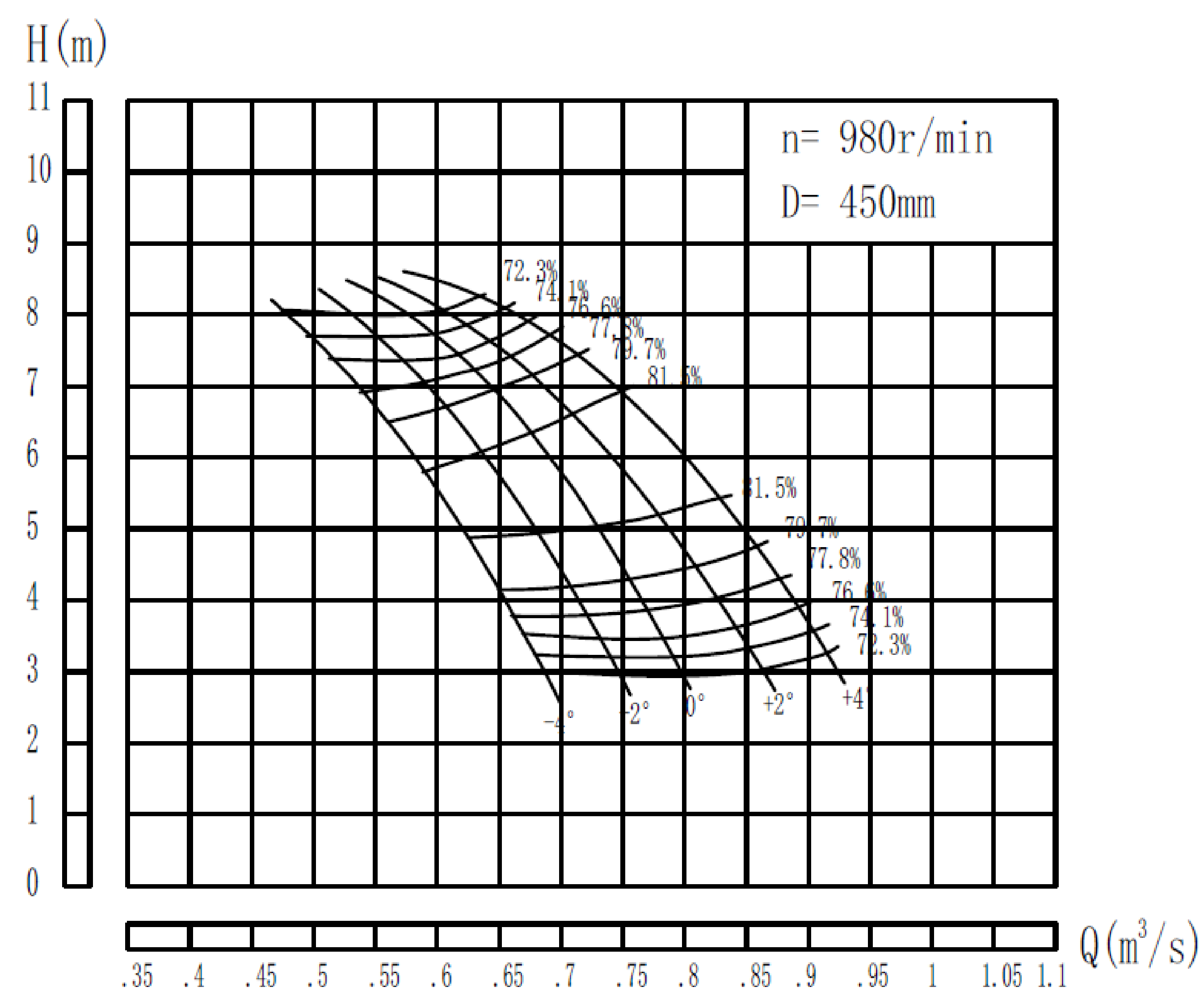
Performance Curve of VSP9130.500/450



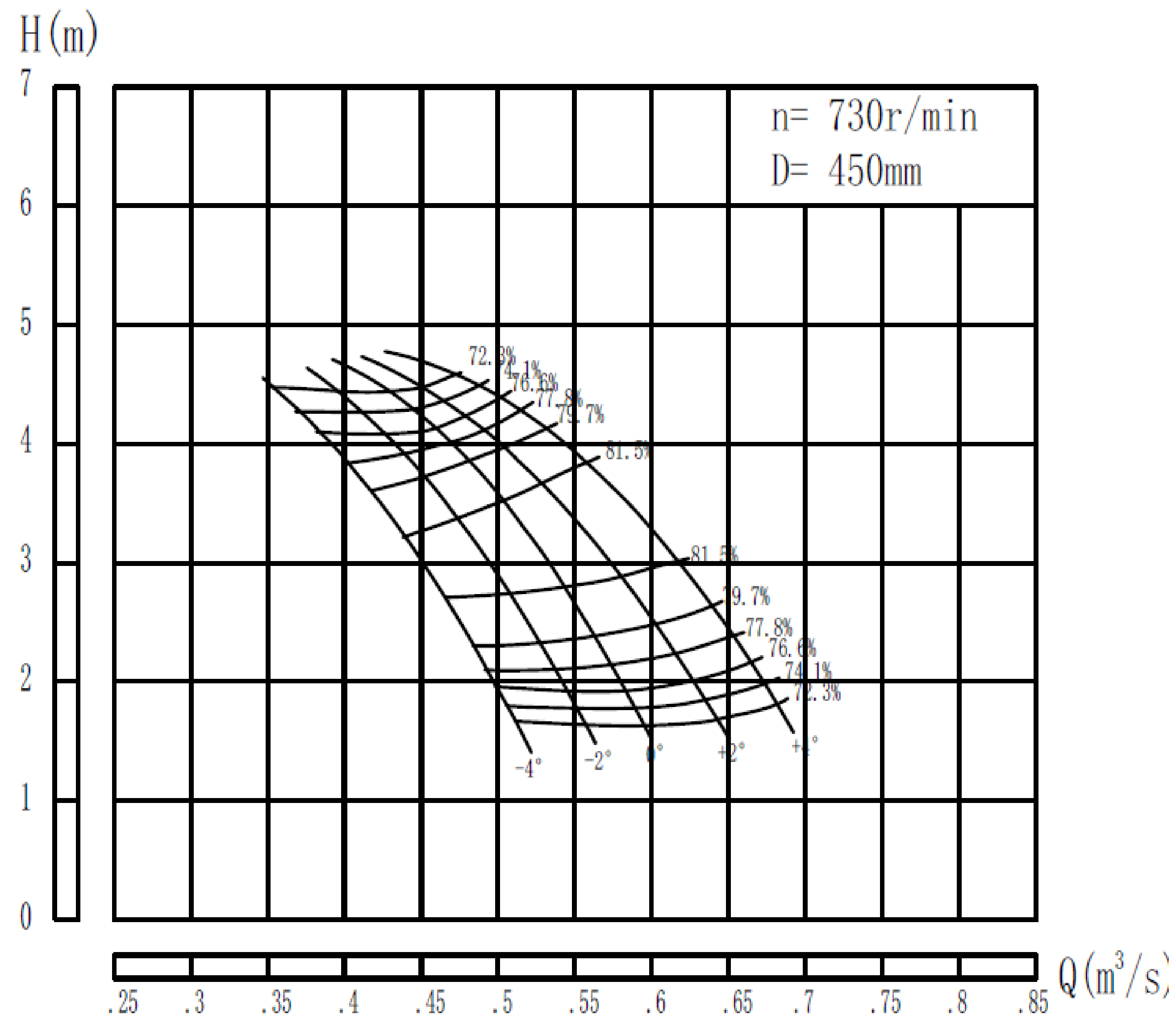
Performance Curve of VSP9045.500/450



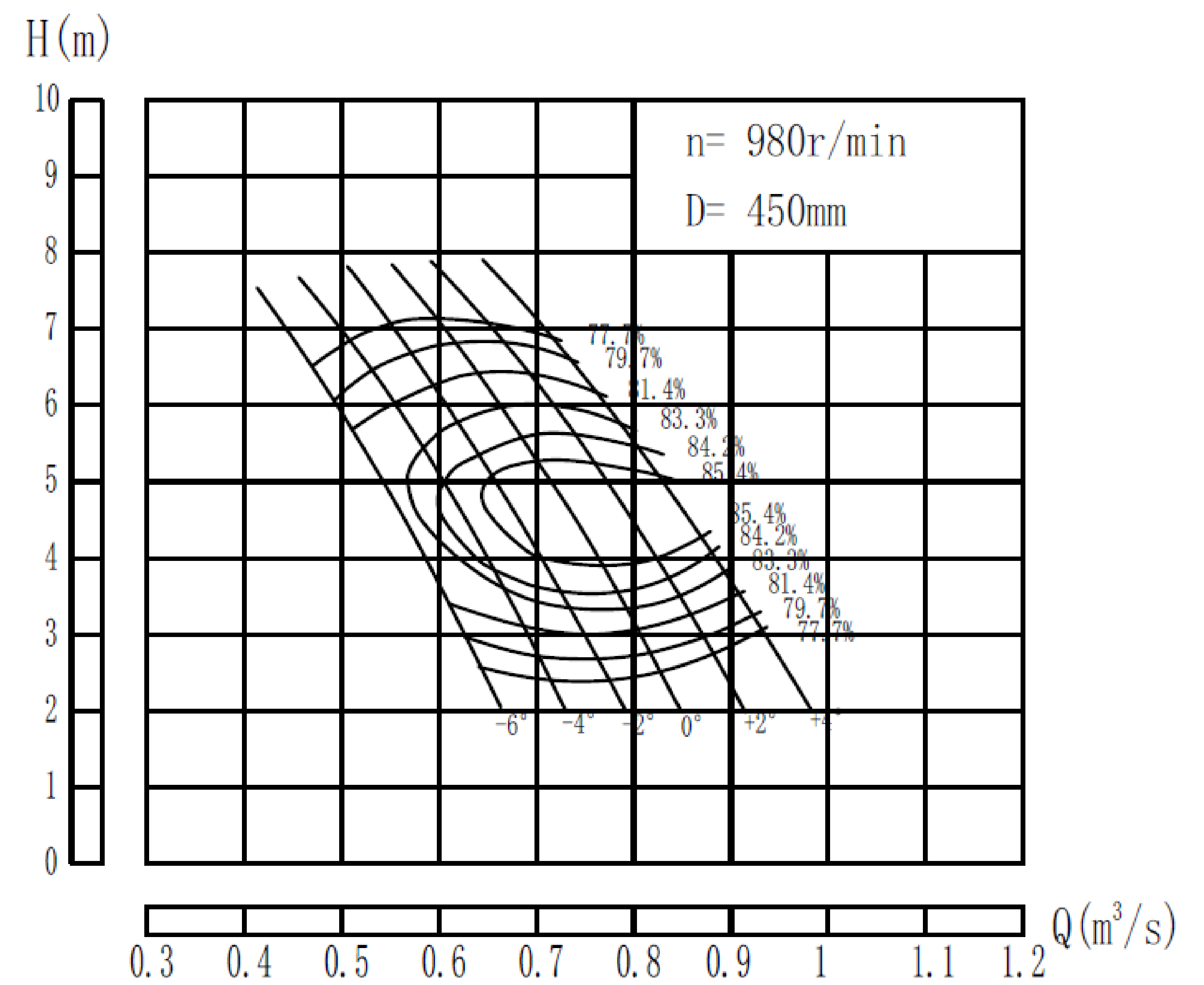
Performance Curve of VSP9080.500/450



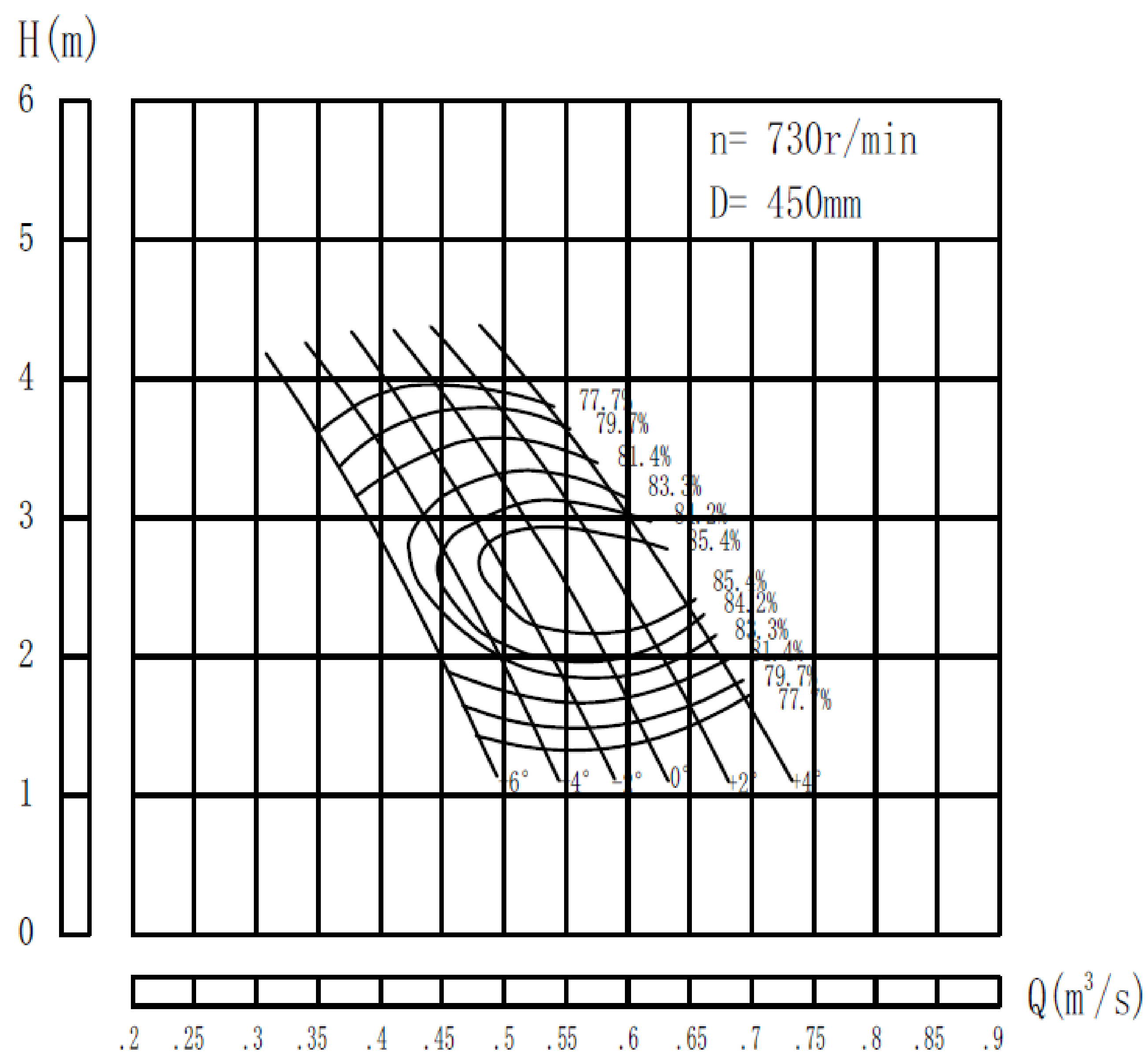
Performance Curve of VSP9037.500/450



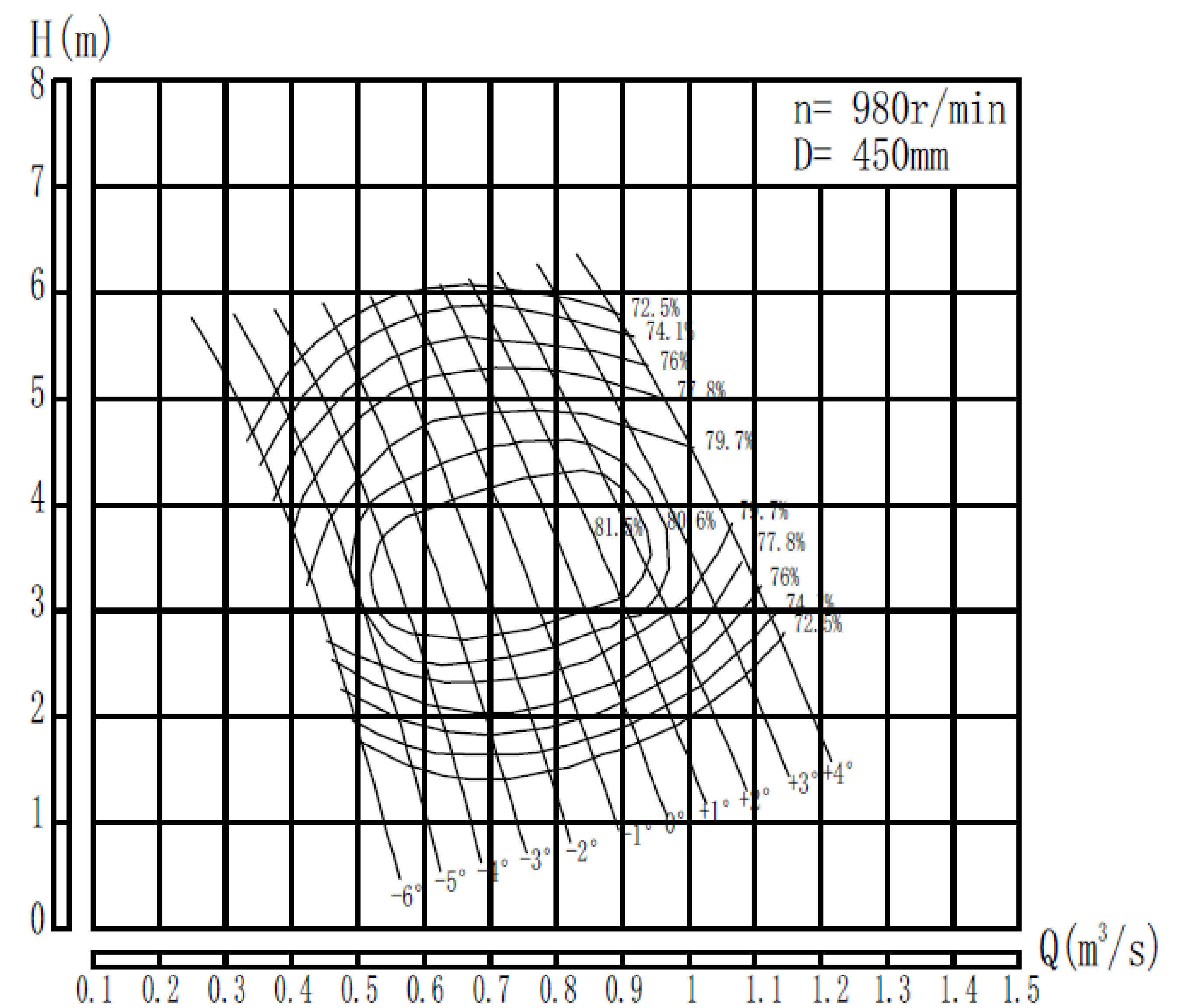
Performance Curve of VSP9065.500/450



Performance Curve of VSP9030.500/450



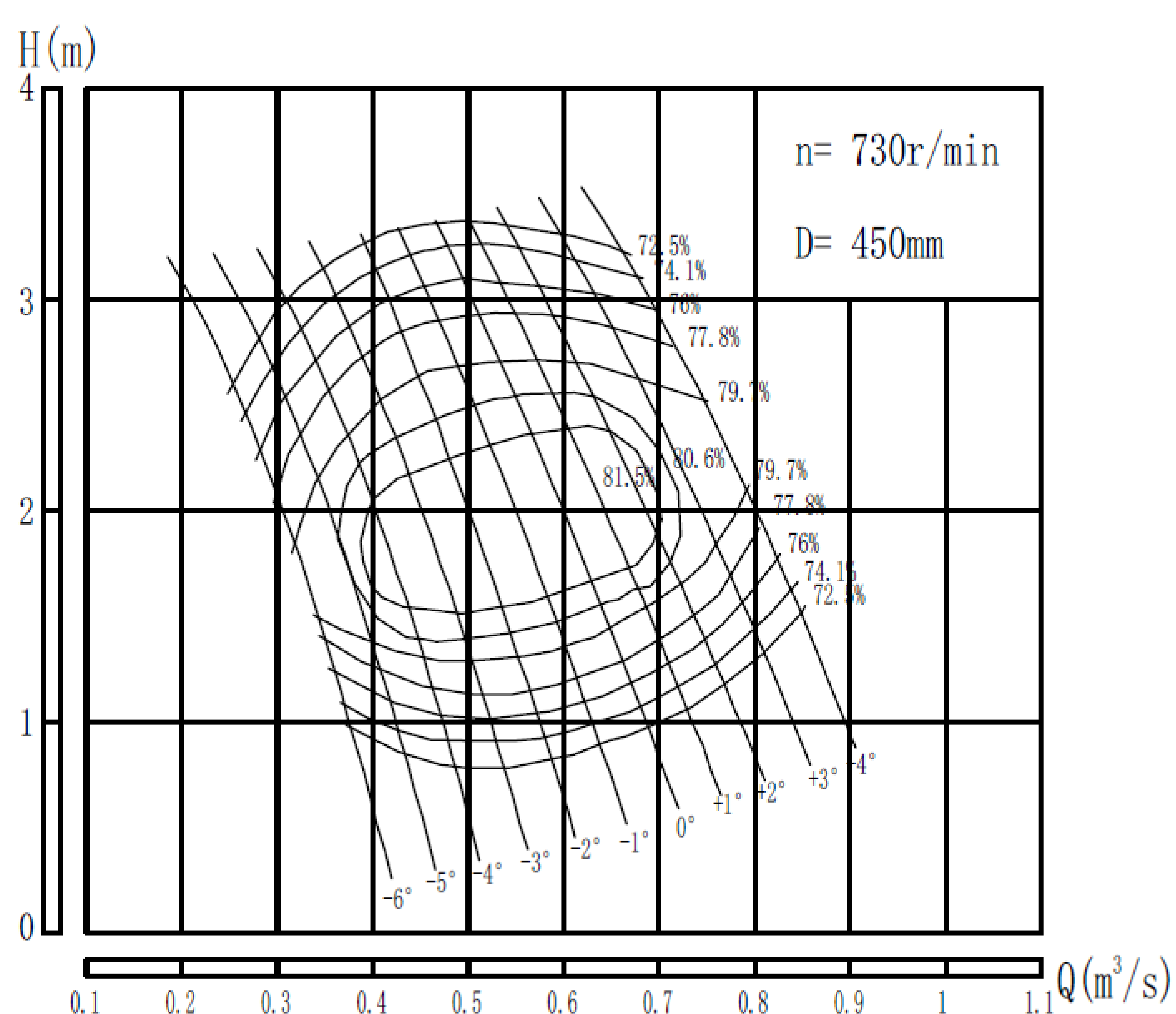
Performance Curve of VSP9080.500/450



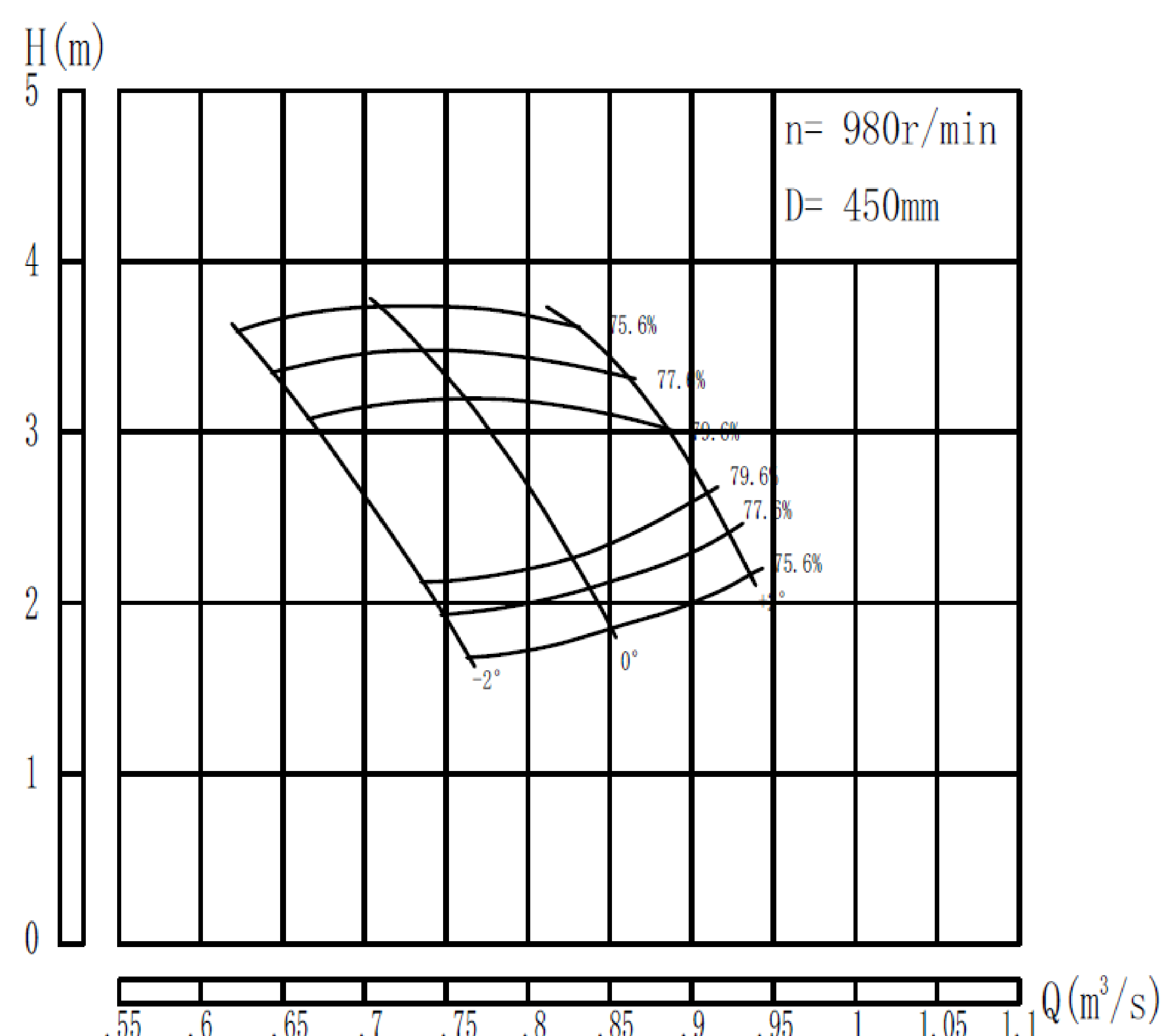
Performance Curve

Axial flow & Axial Mixed flow Overview curve

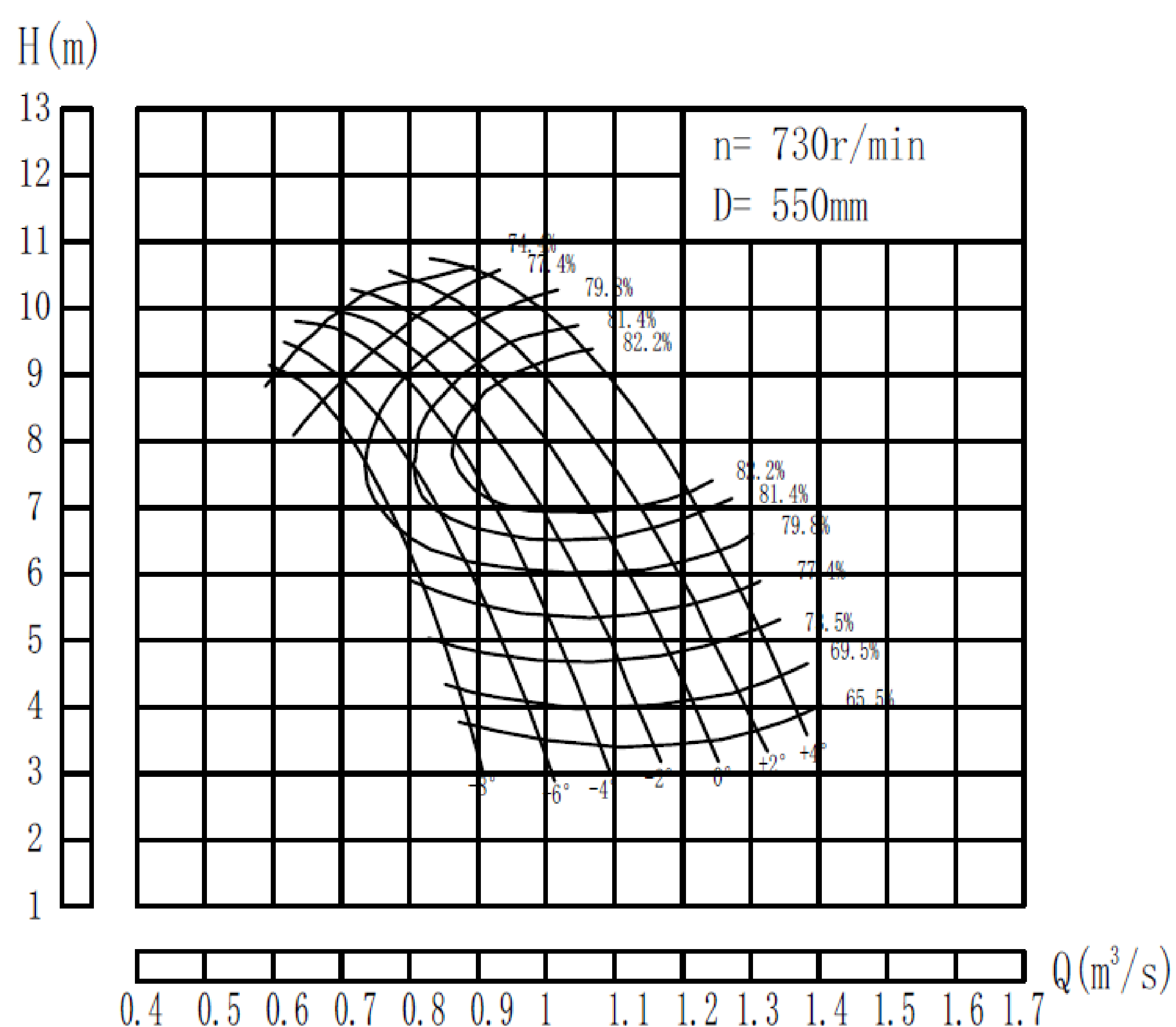
Performance Curve of VSP9037.500/450



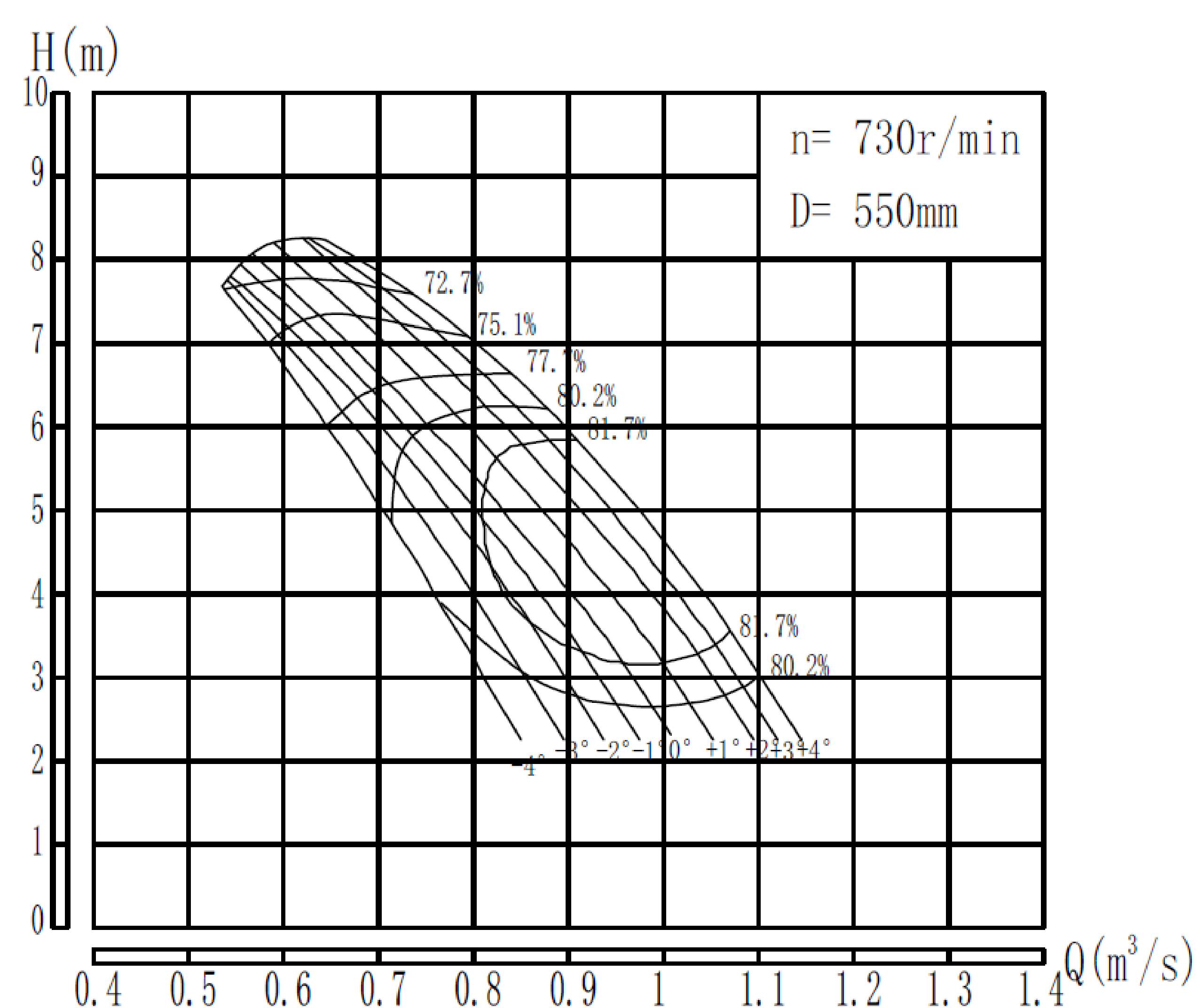
Performance Curve of VSP9055.500/450



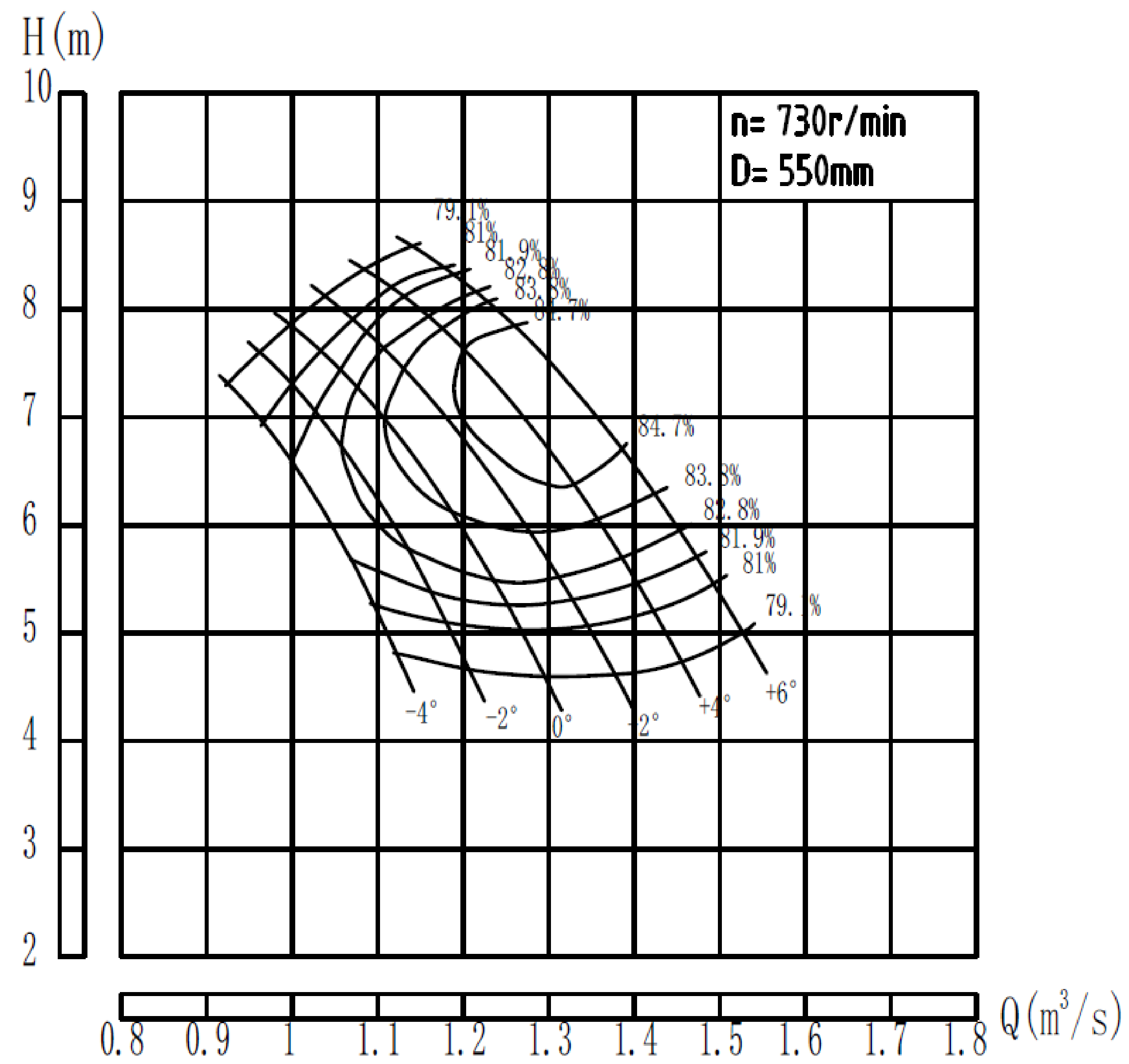
Performance Curve of VSP9132.600/550



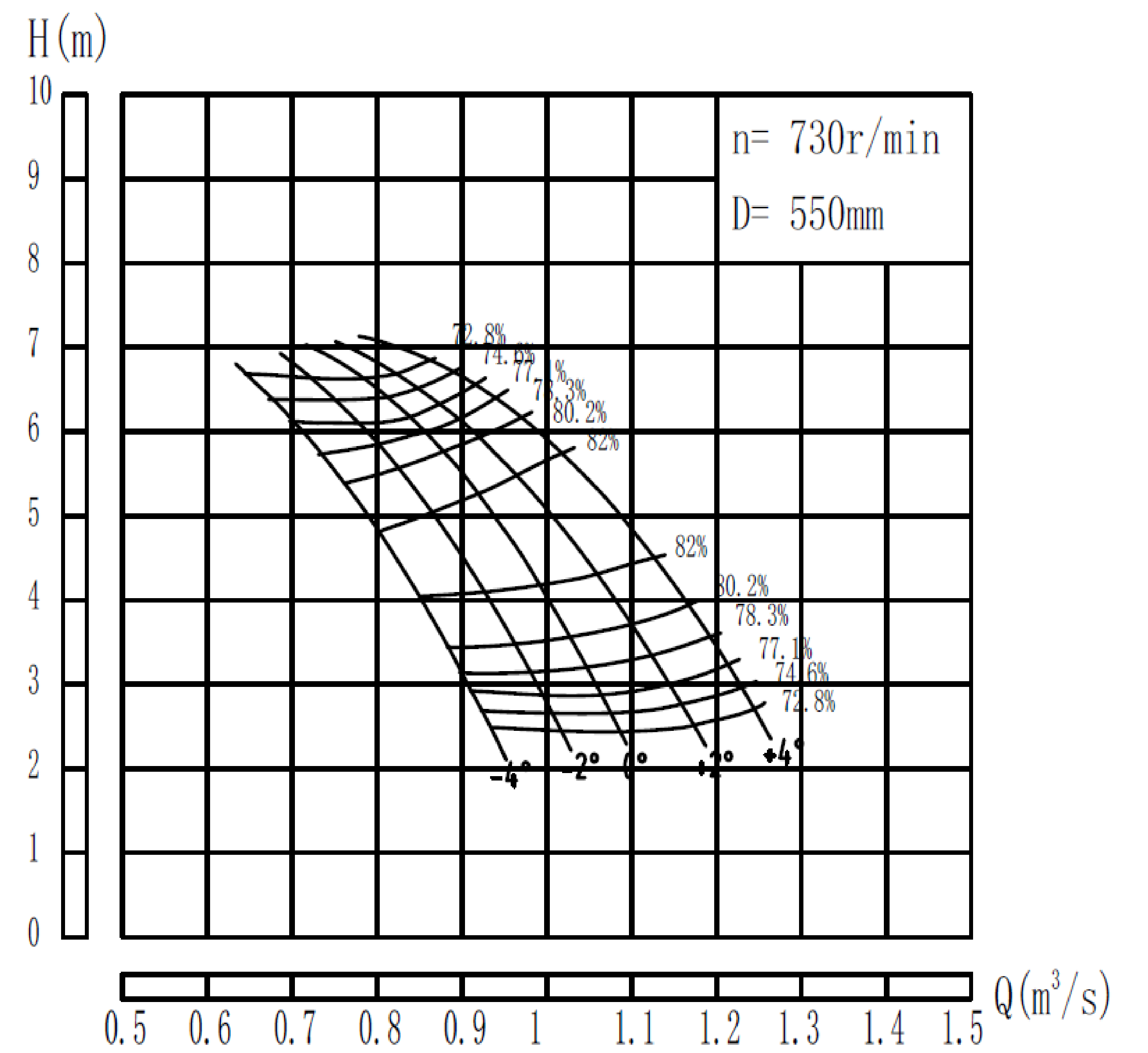
Performance Curve of VSP9080.600/550



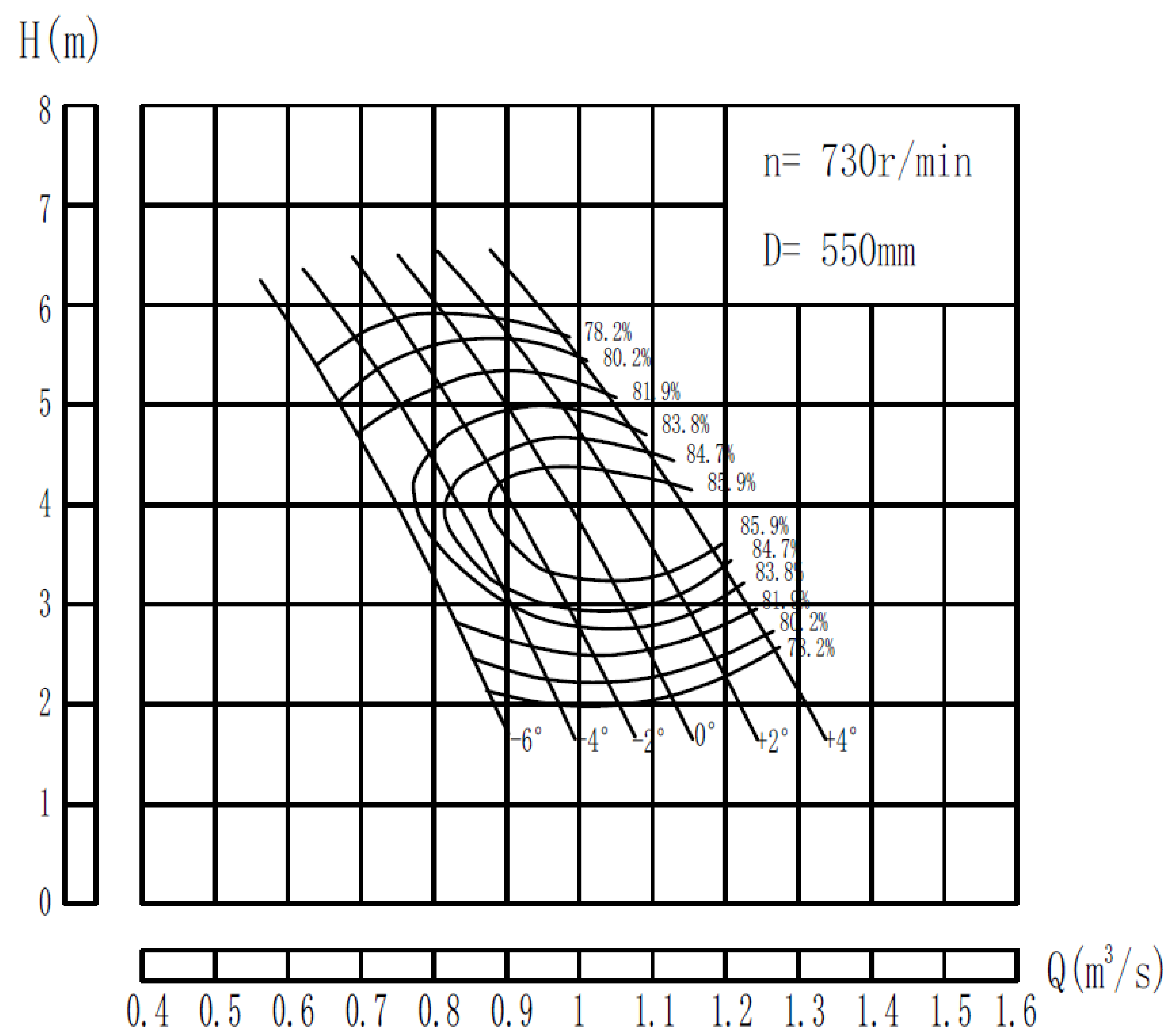
Performance Curve of VSP9132.600/550



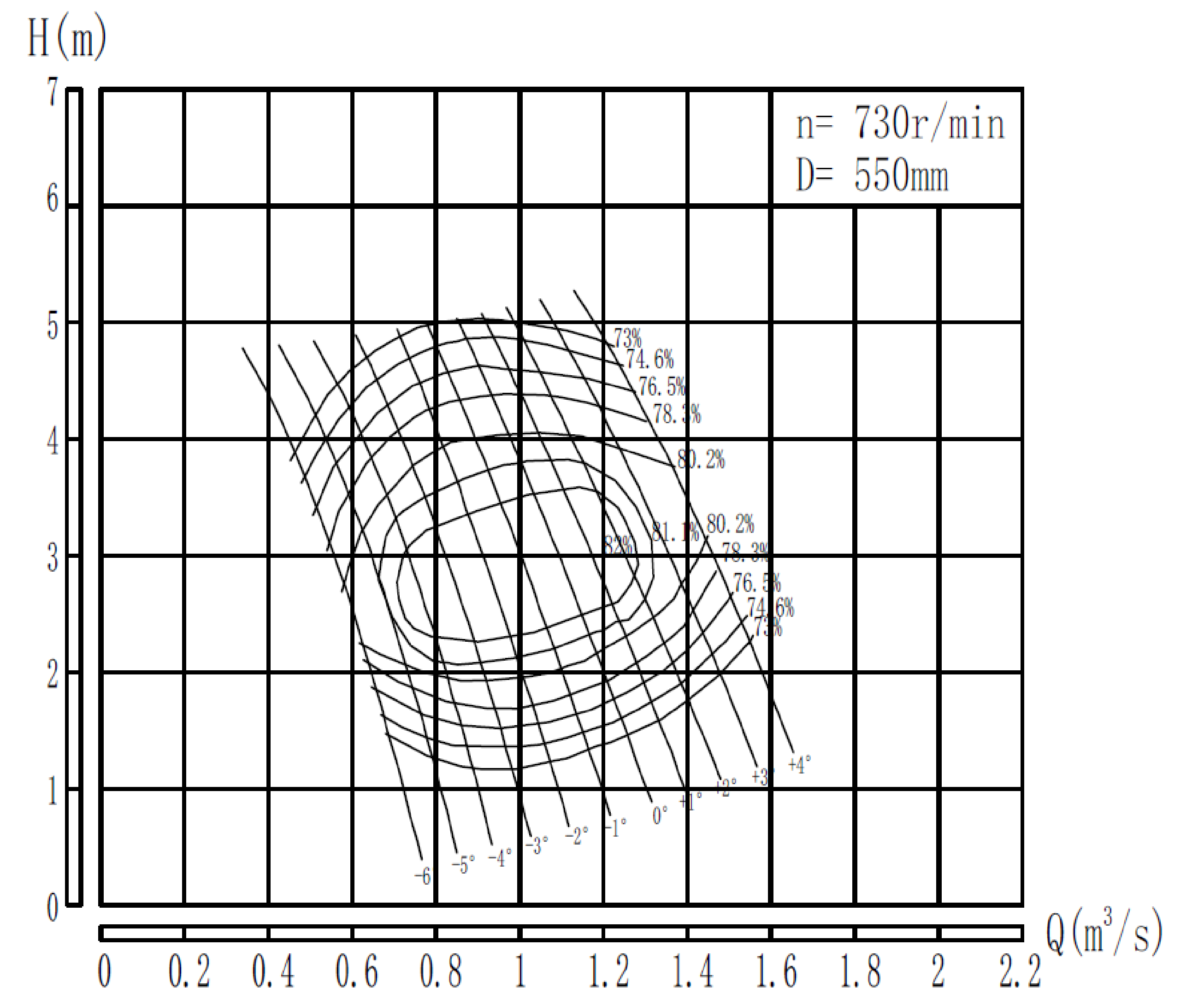
Performance Curve of VSP9095.600/550



Performance Curve of VSP9080.600/550



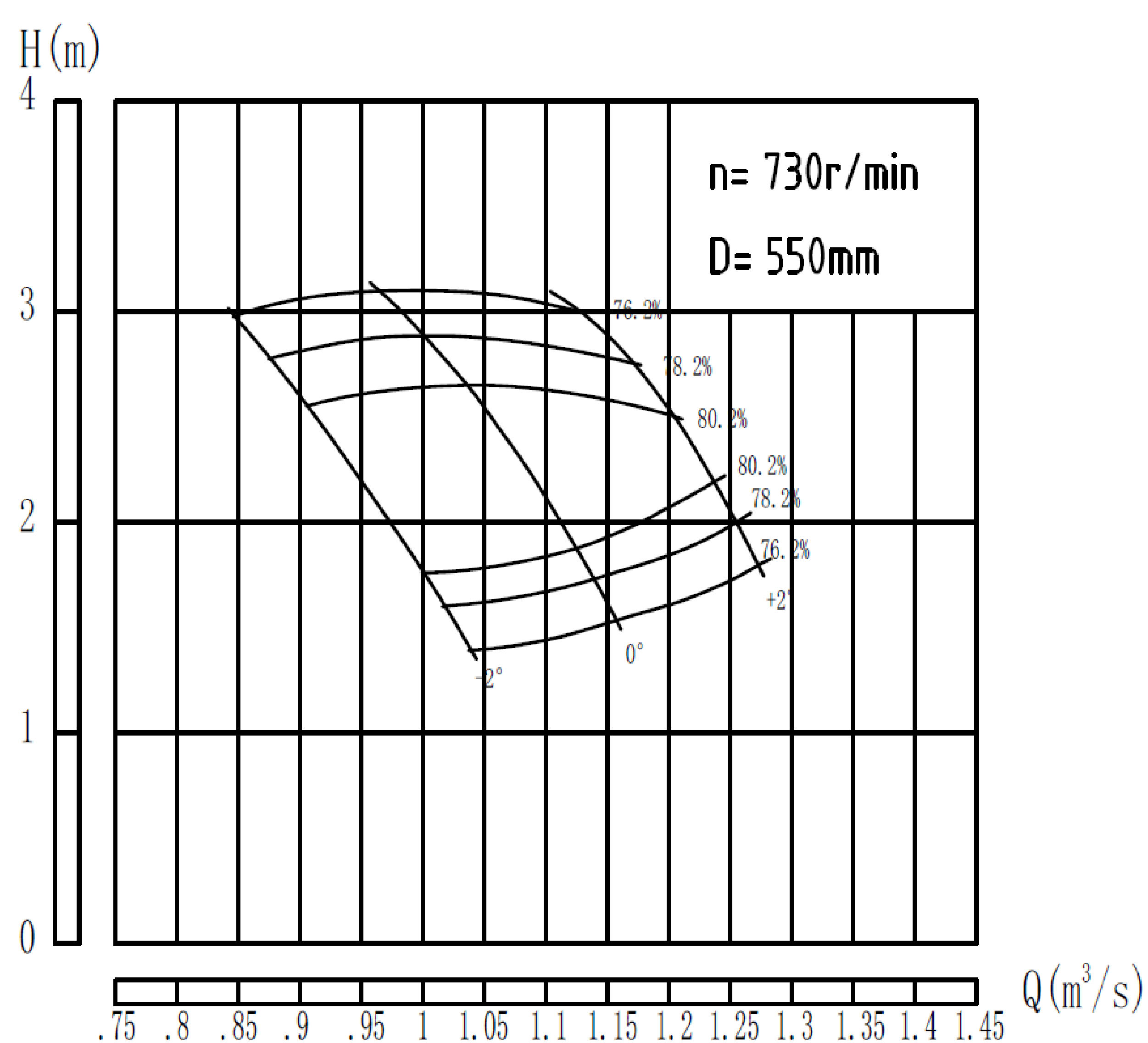
Performance Curve of VSP9095.600/550



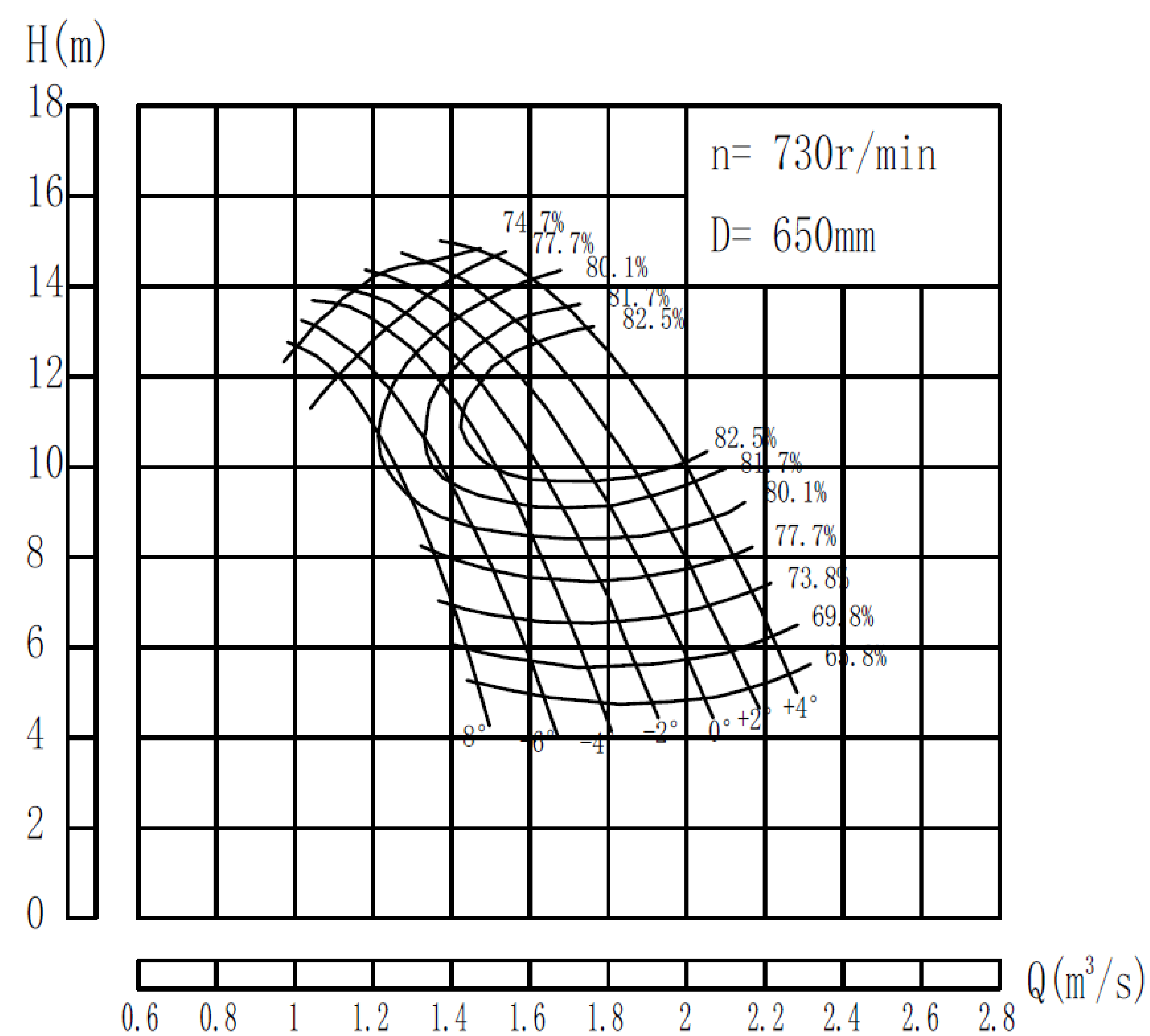
Performance Curve

Axial flow & Axial Mixed flow Overview curve

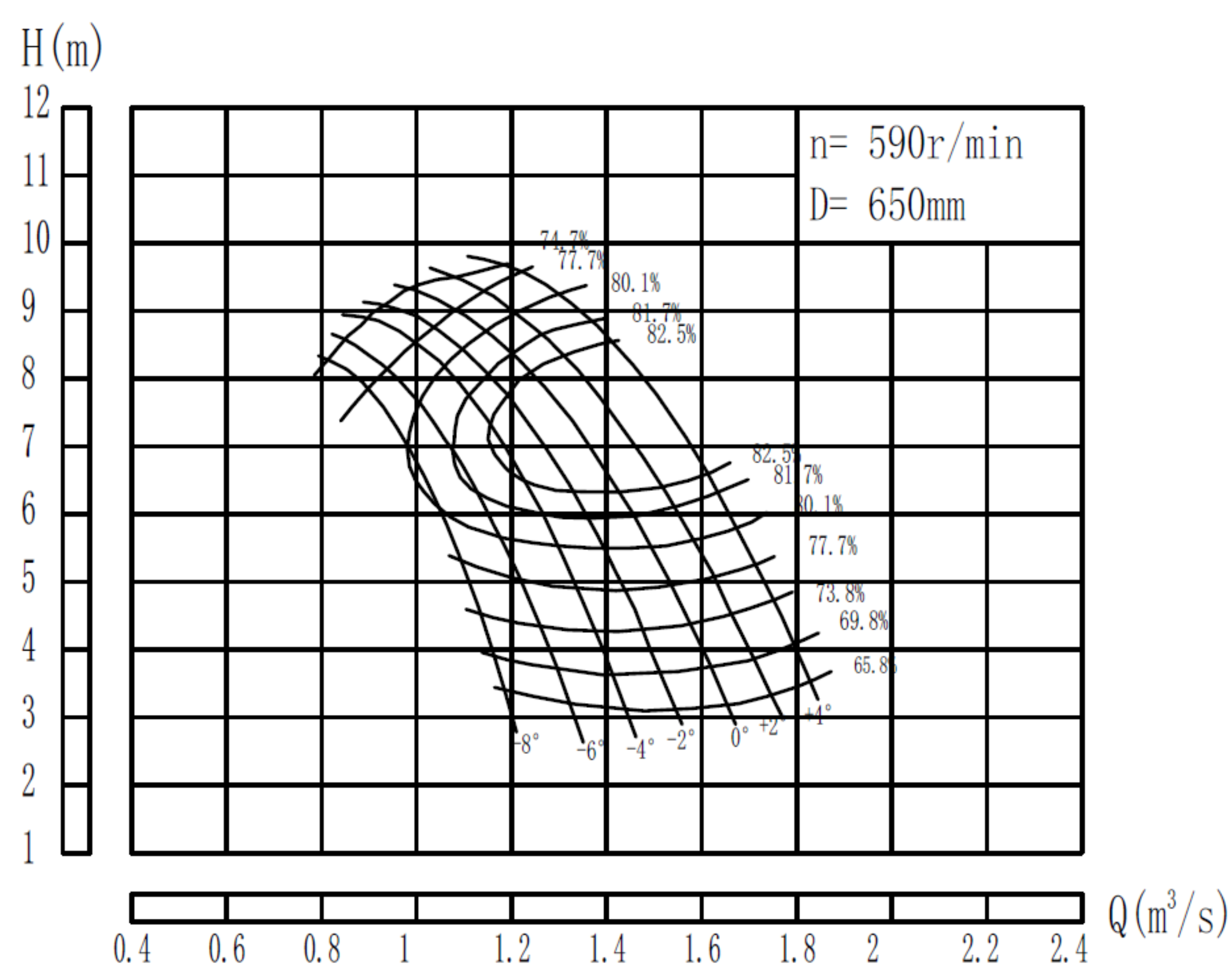
Performance Curve of VSP9055.600/550



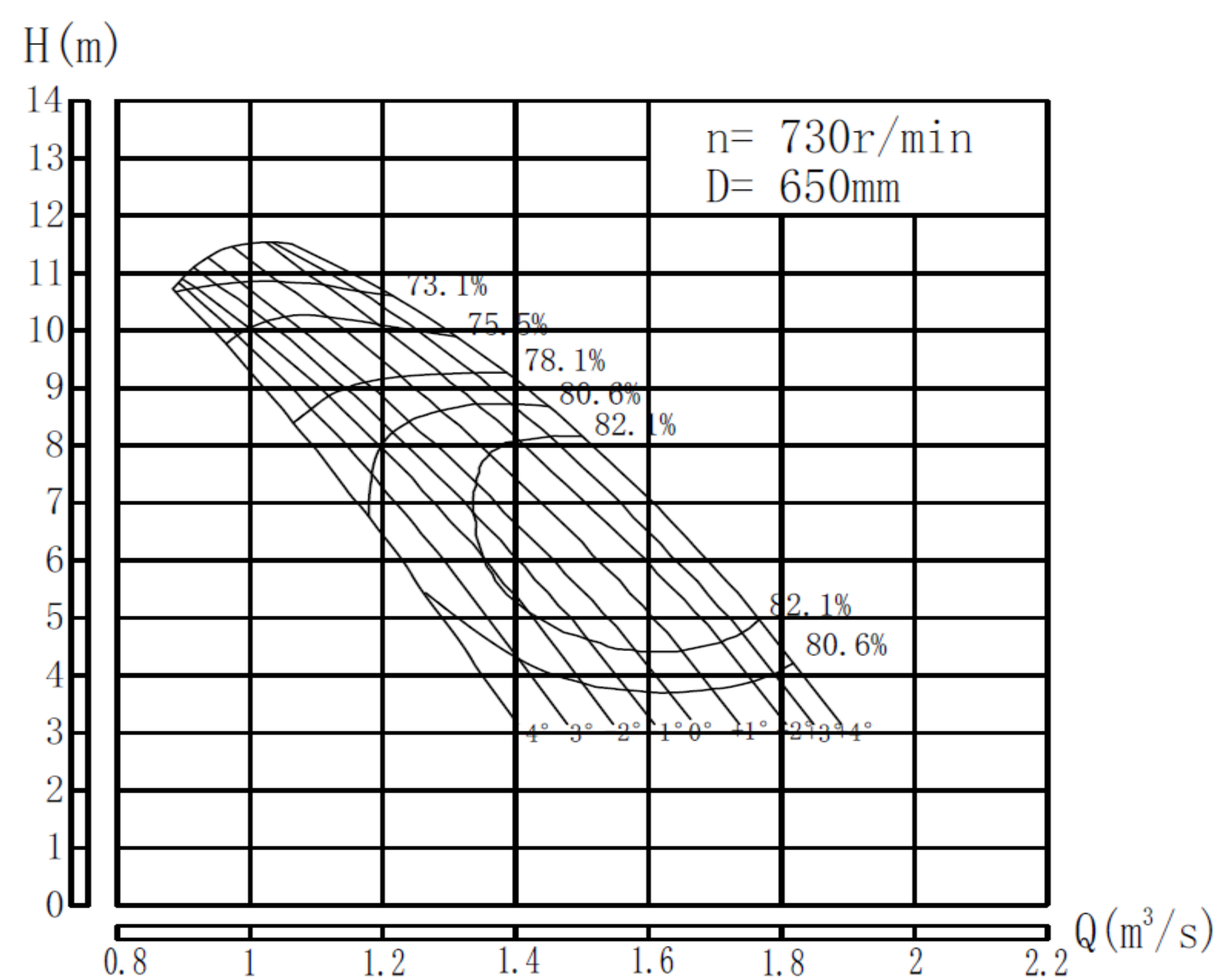
Performance Curve of VSP9132.600/600



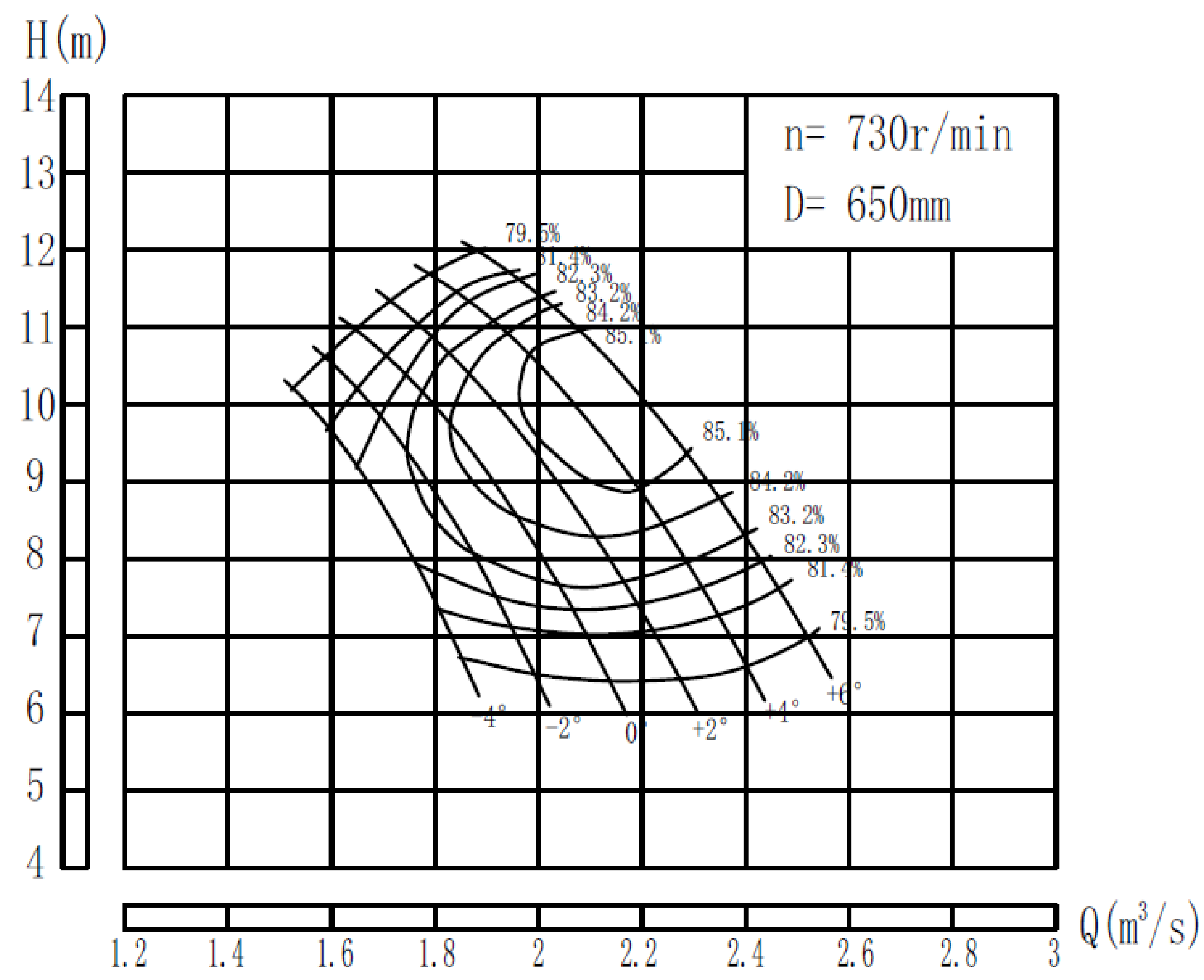
Performance Curve of VSP9155.700/650



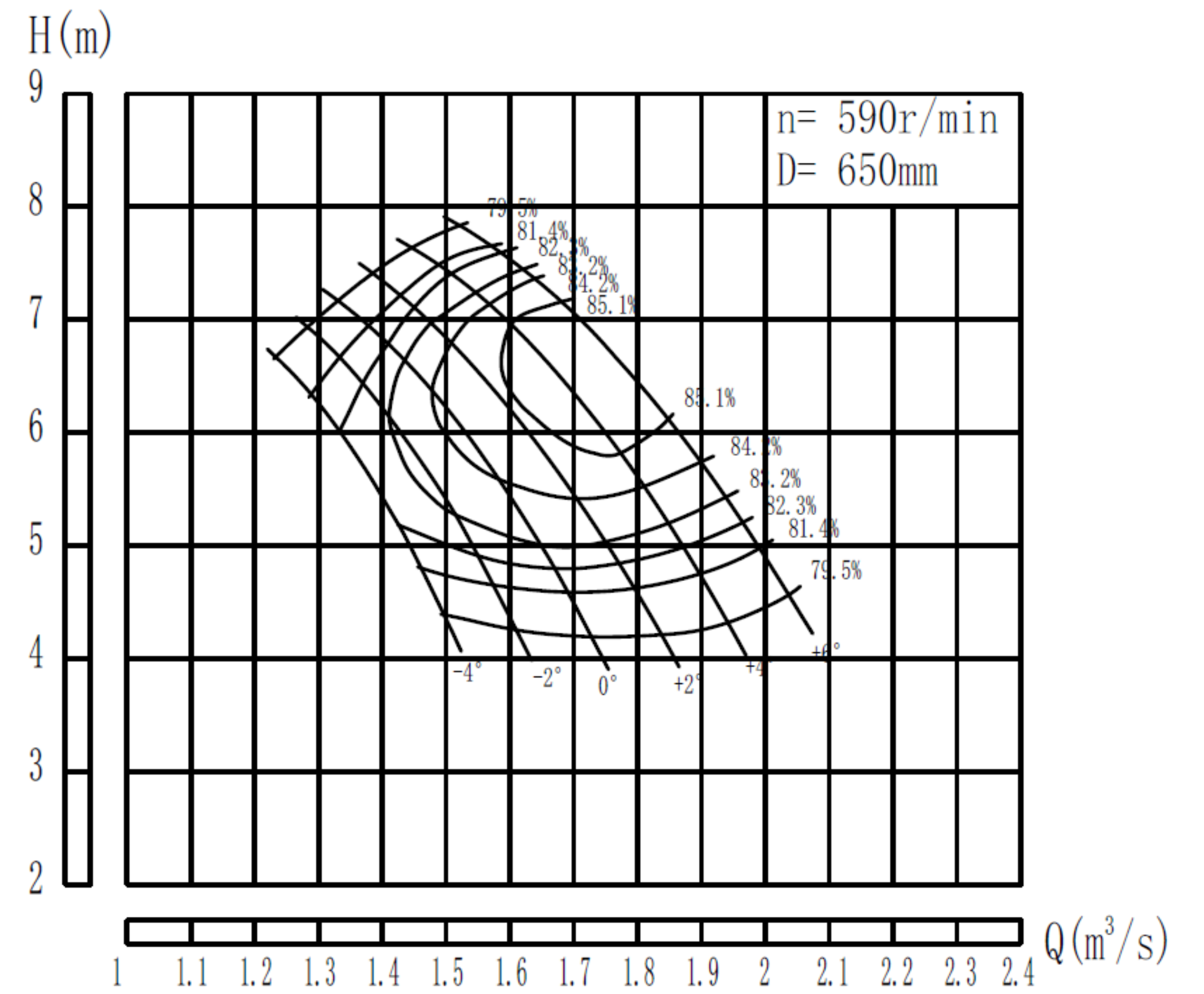
Performance Curve of VSP9180.700/650



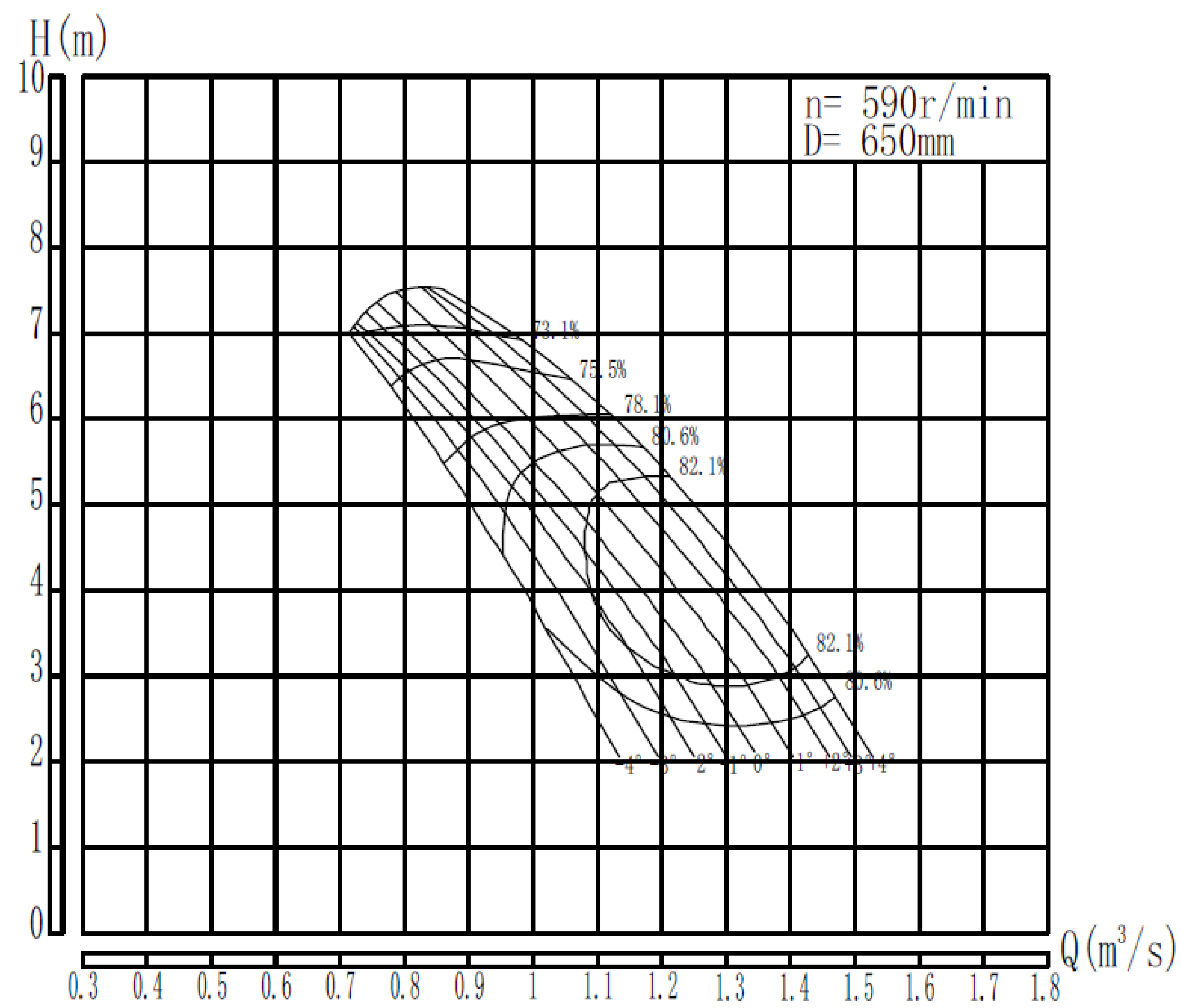
Performance Curve of VSP9280.700/650



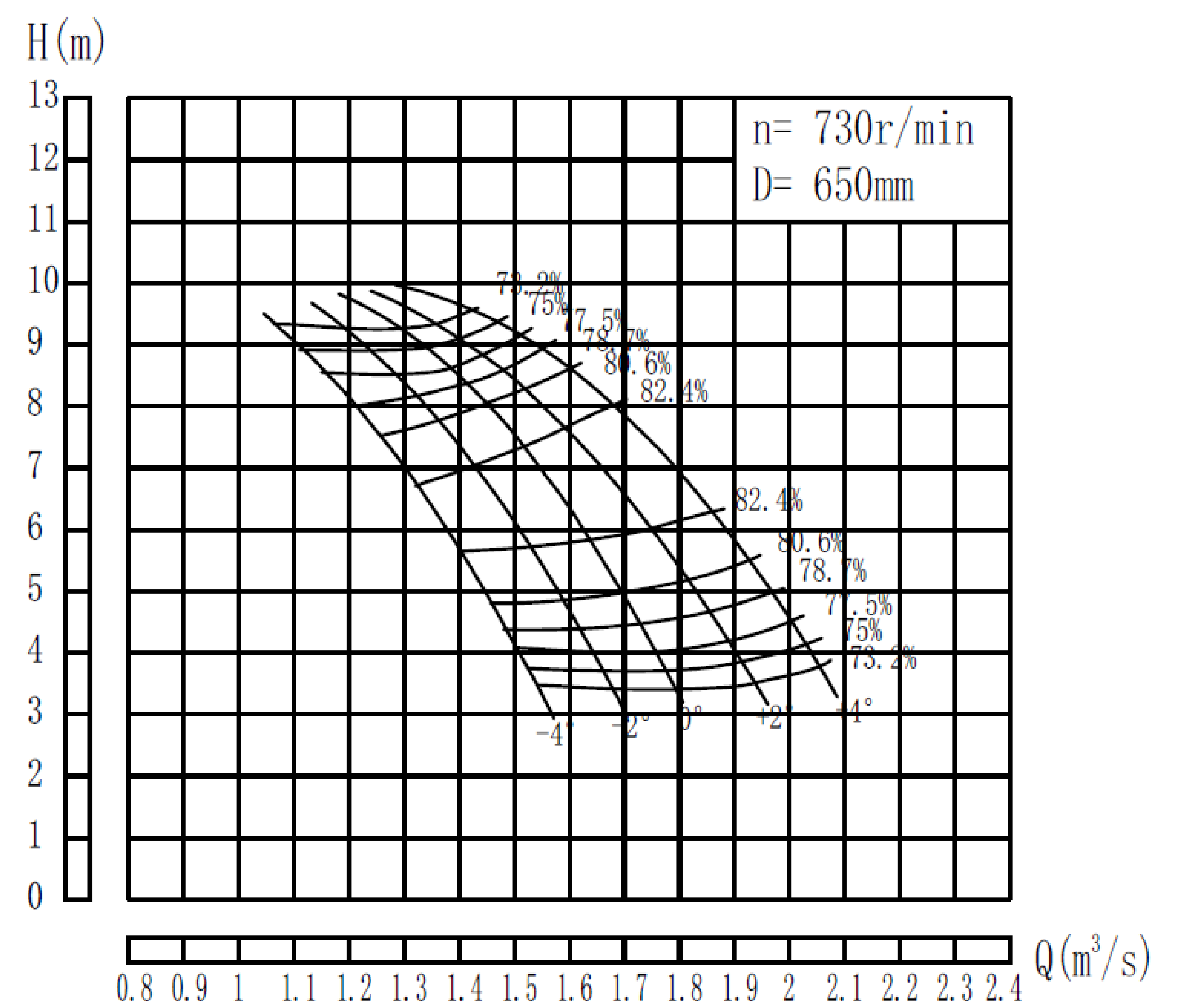
Performance Curve of VSP9155.700/650



Performance Curve of VSP9110.700/650



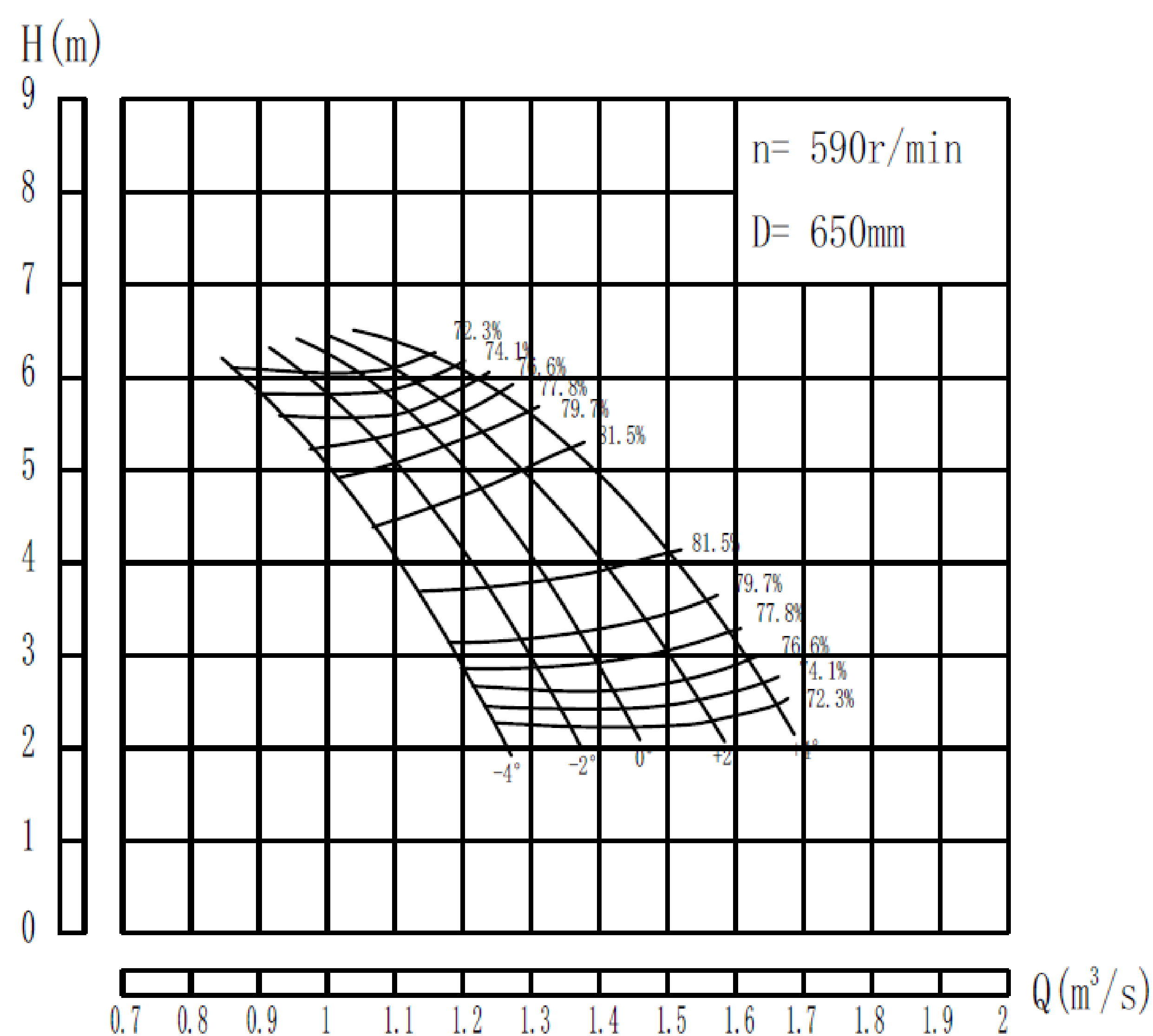
Performance Curve of VSP9180.700/650



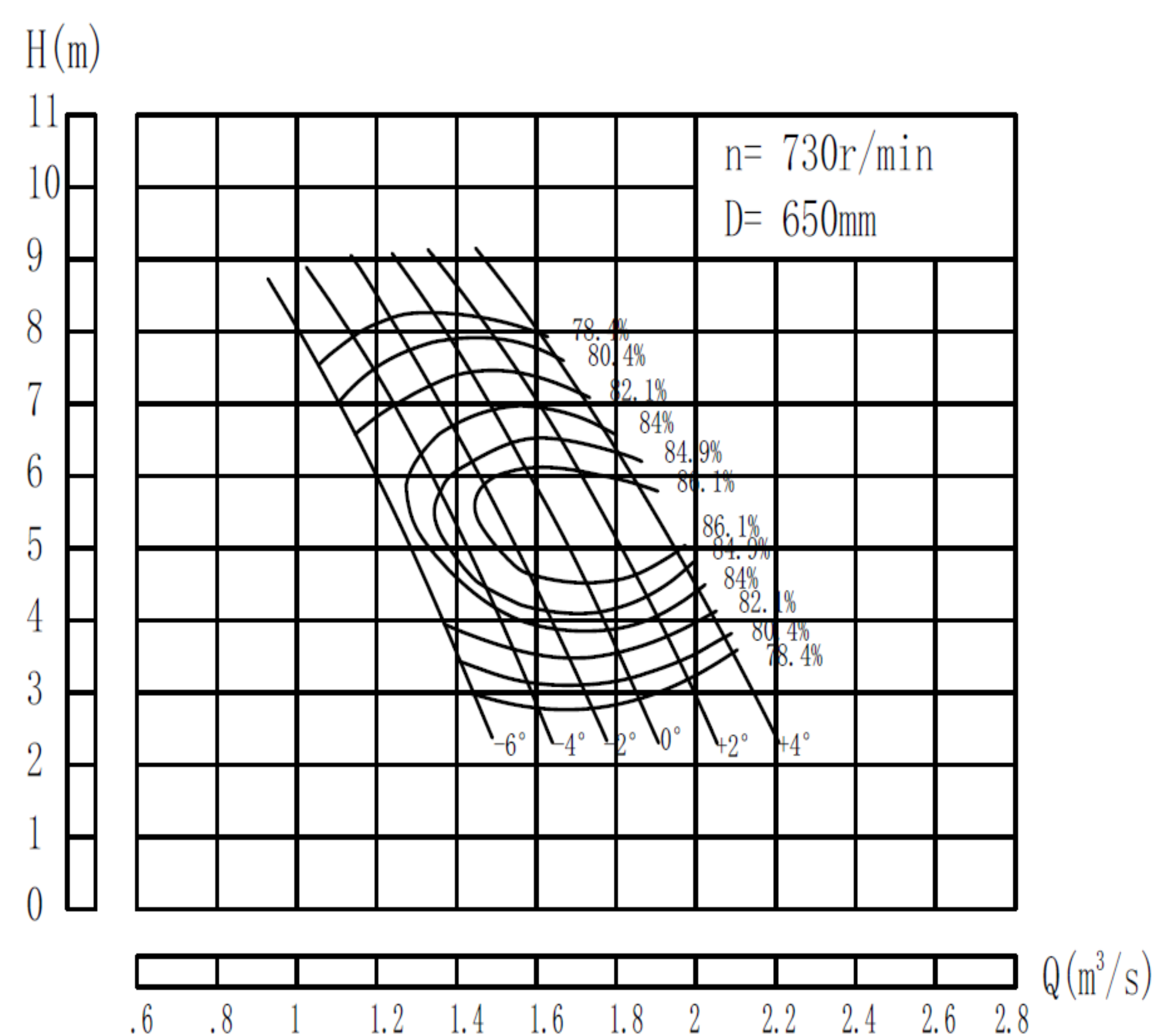
Performance Curve

Axial flow & Axial Mixed flow Overview curve

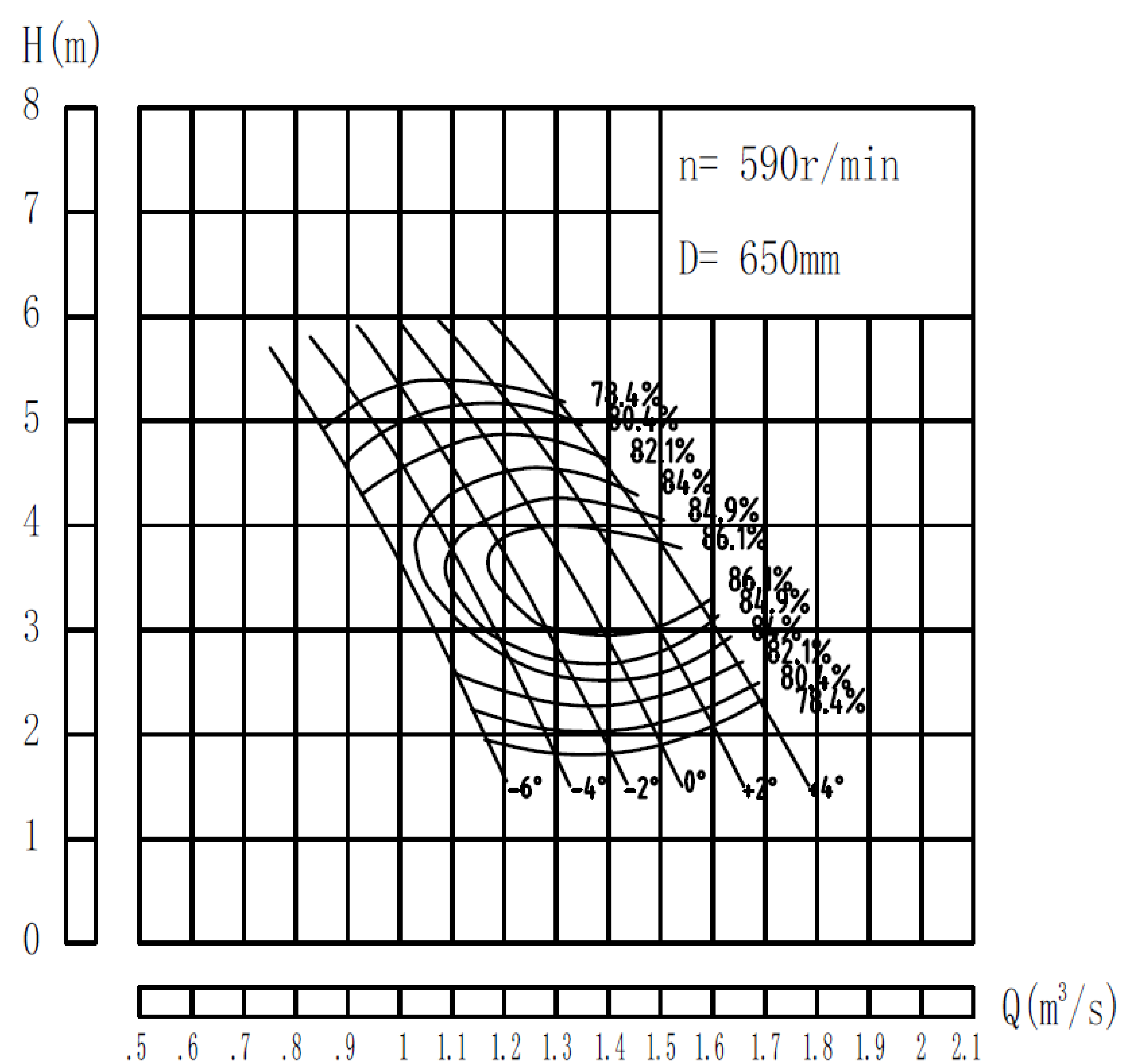
Performance Curve of VSP9110.700/650



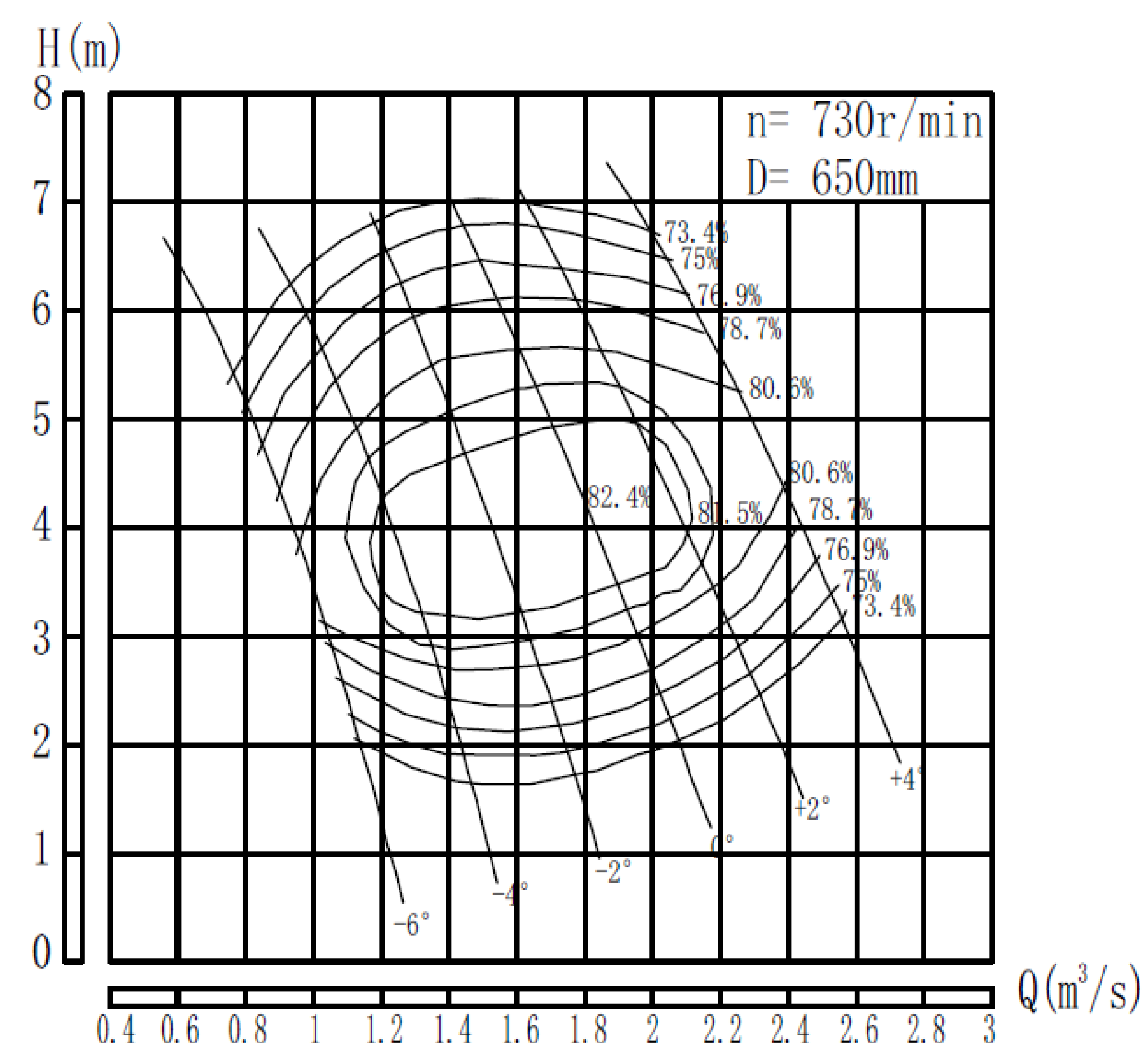
Performance Curve of VSP9180.700/650



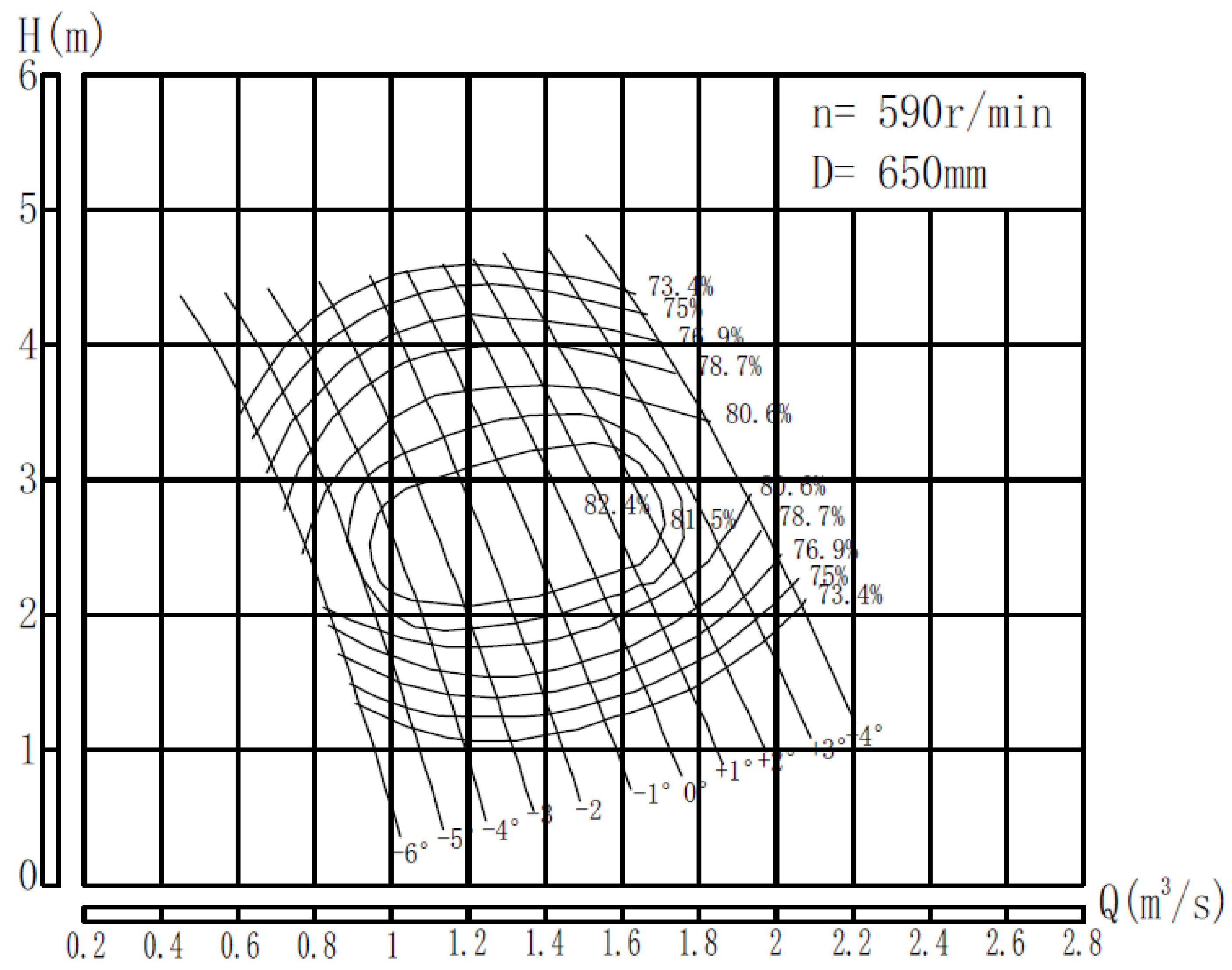
Performance Curve of VSP9095.700/650



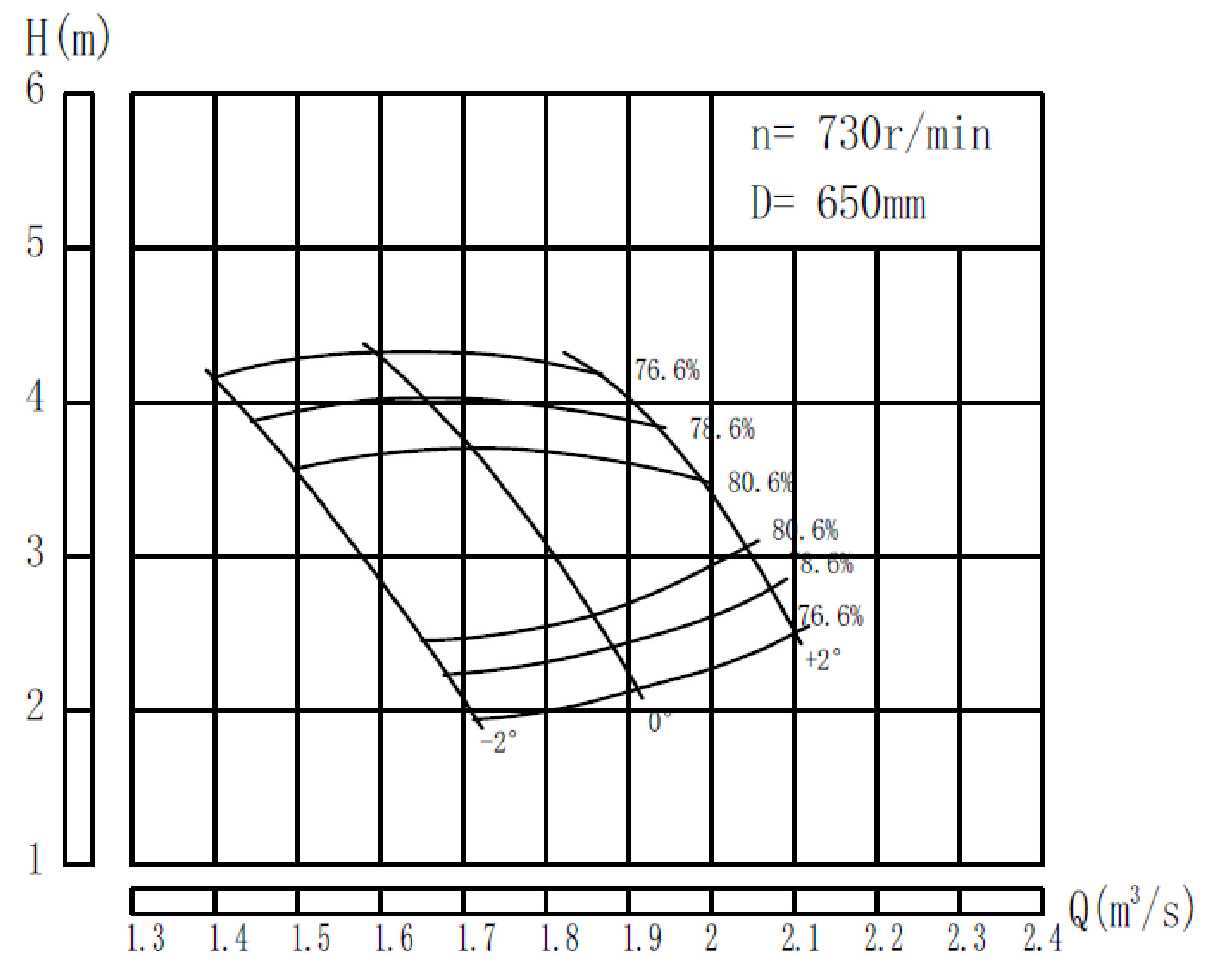
Performance Curve of VSP9132.700/600



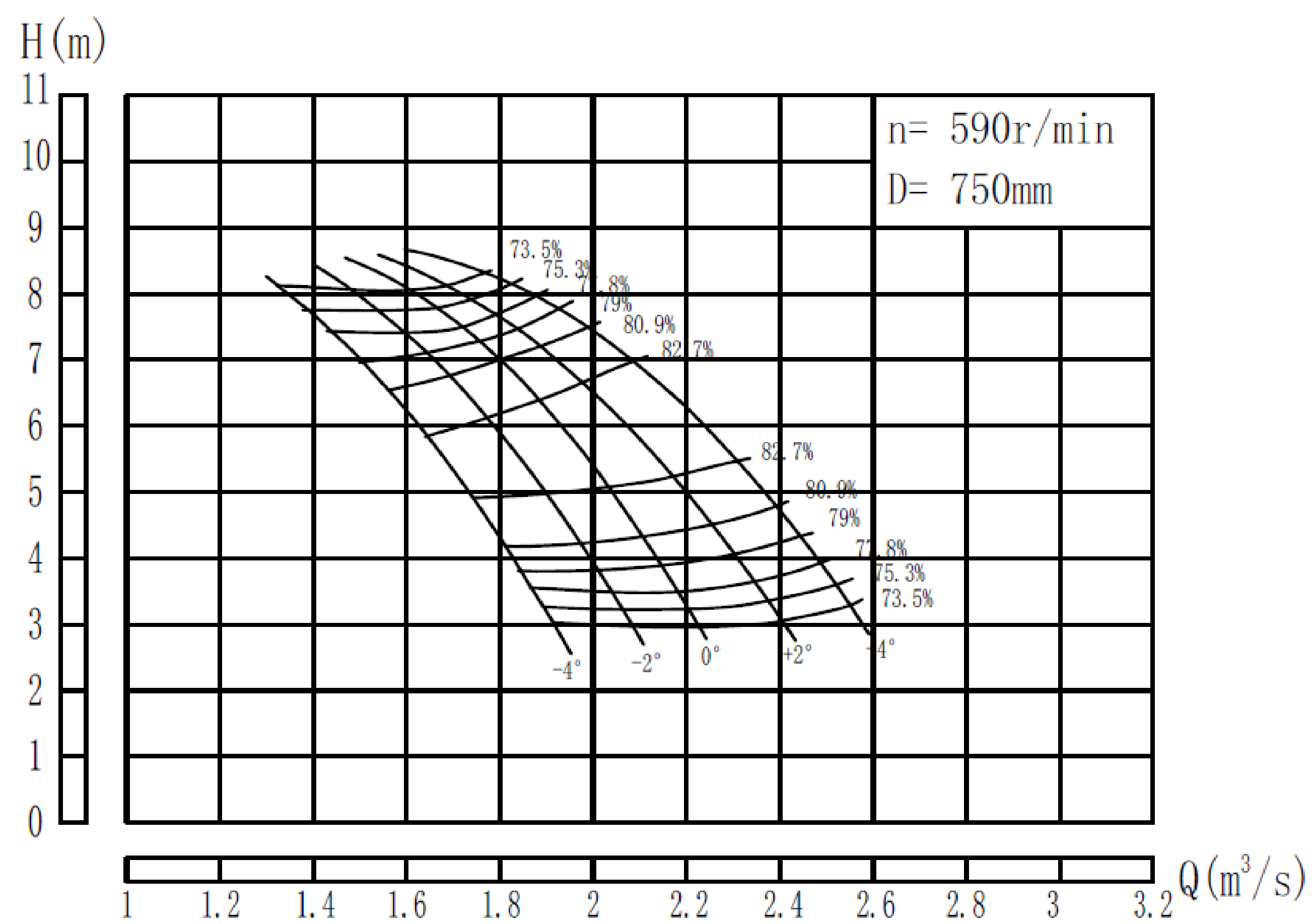
Performance Curve of VSP9110.700/650



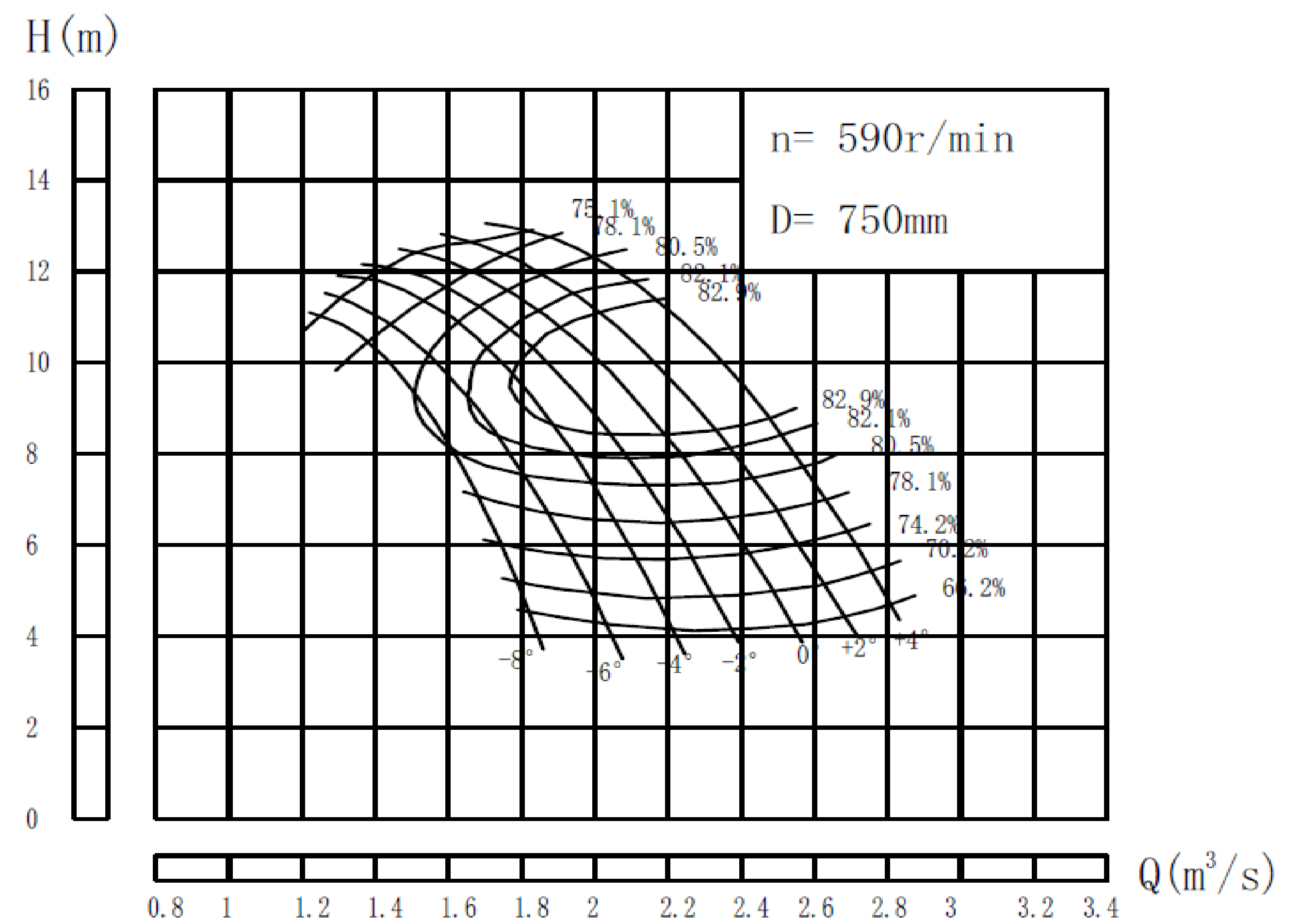
Performance Curve of VSP9132.700/650



Performance Curve of VSP9220.800/750



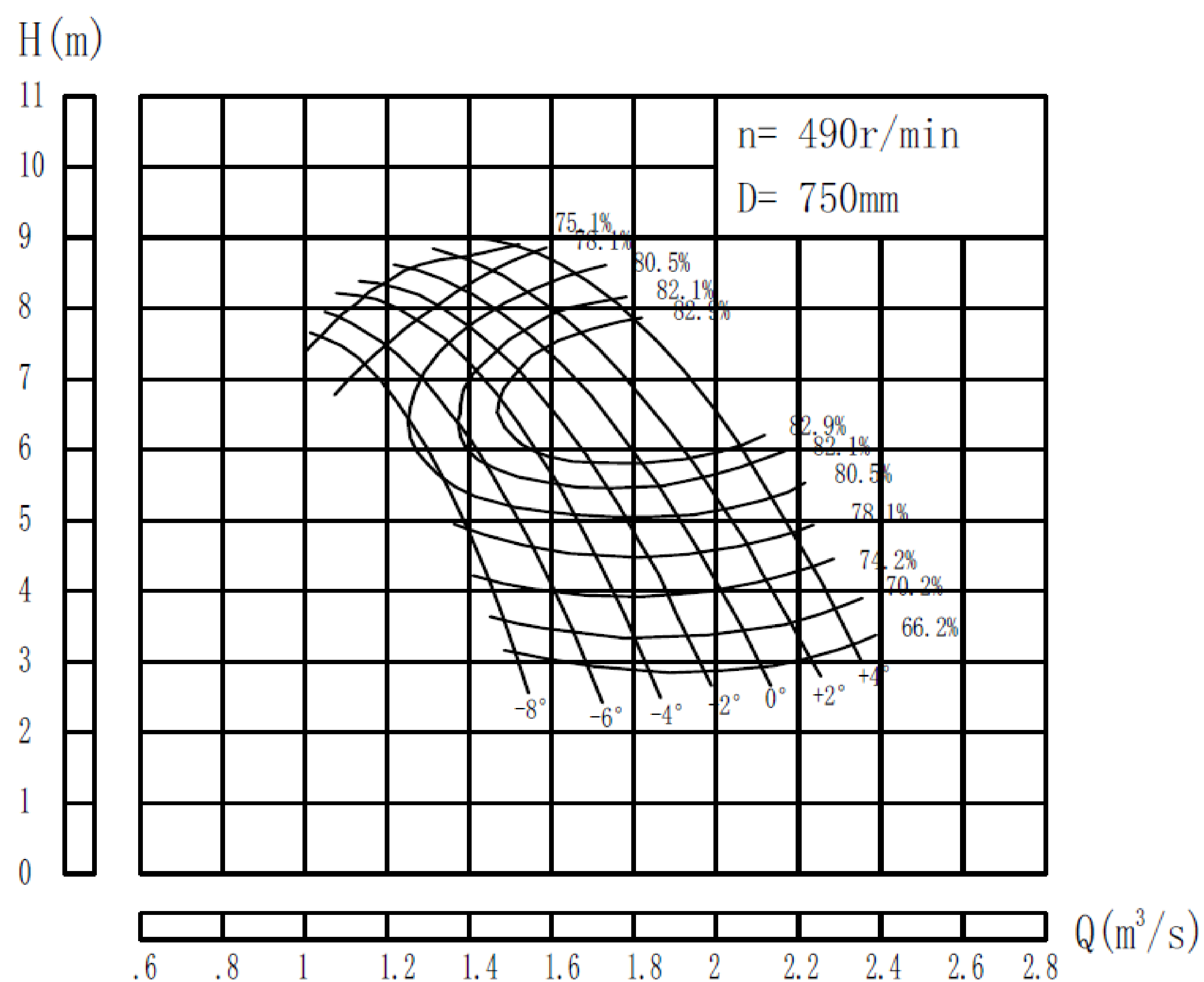
Performance Curve of VSP9330.800/750



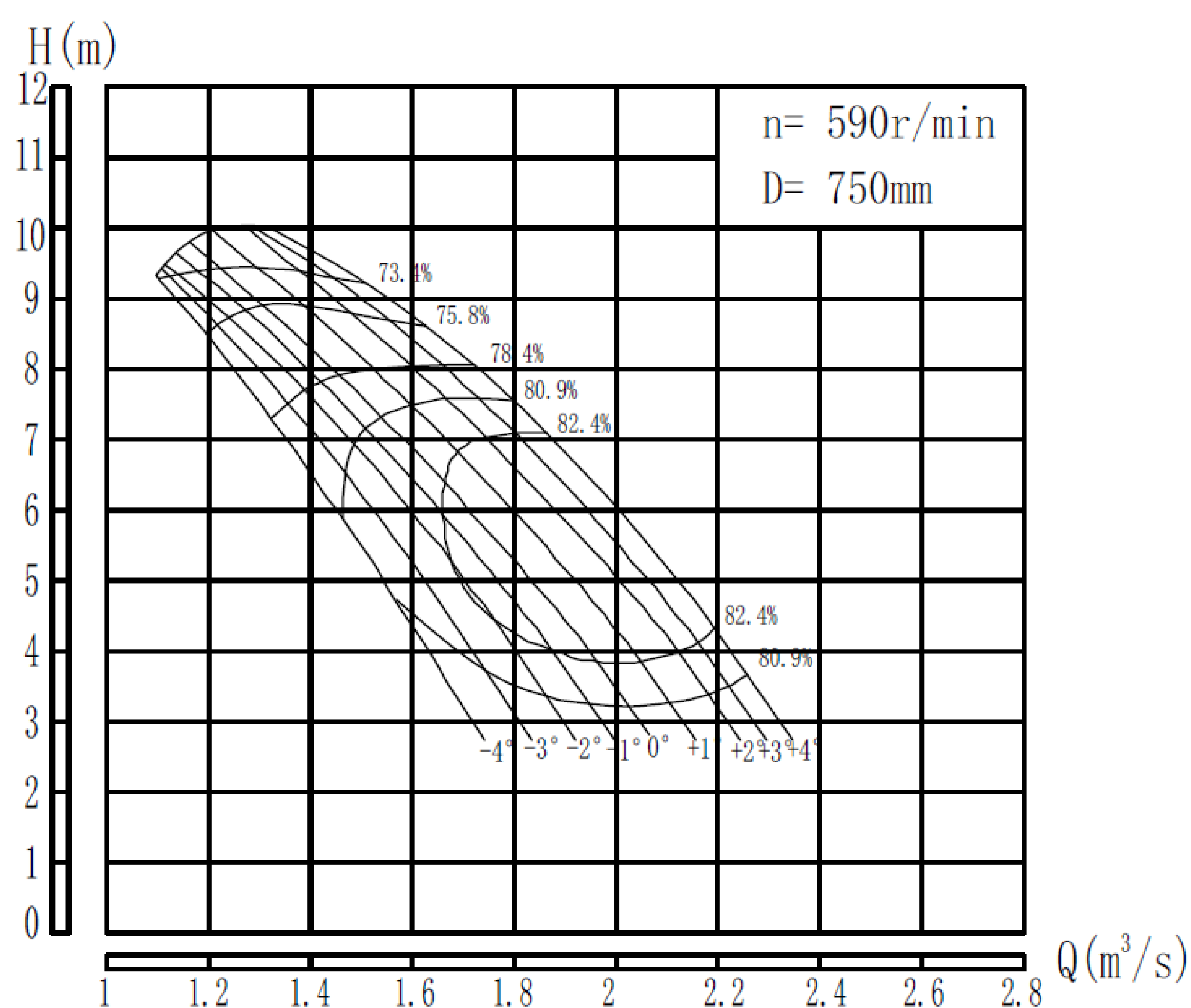
Performance Curve

Axial flow & Axial Mixed flow Overview curve

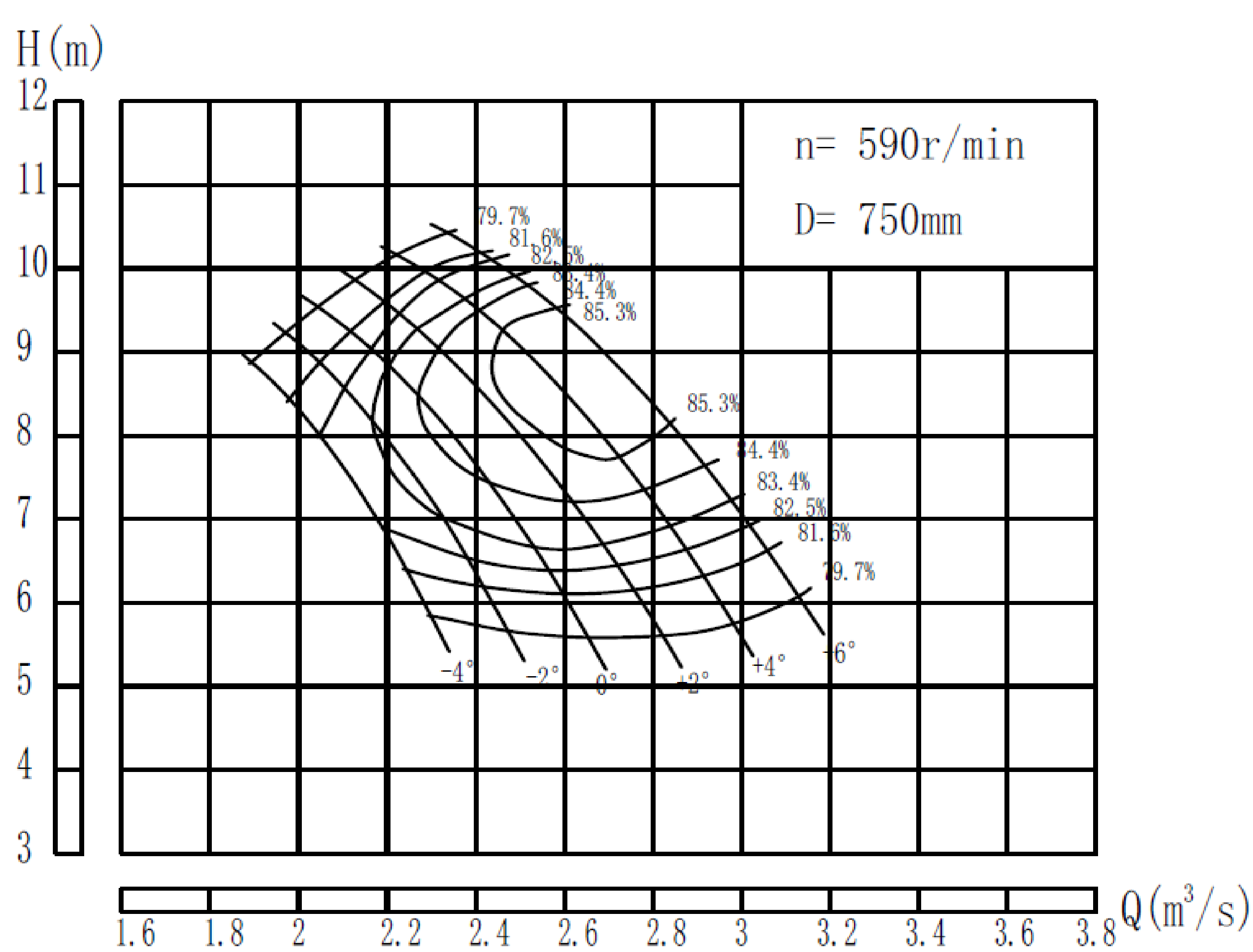
Performance Curve of VSP9200.800/750



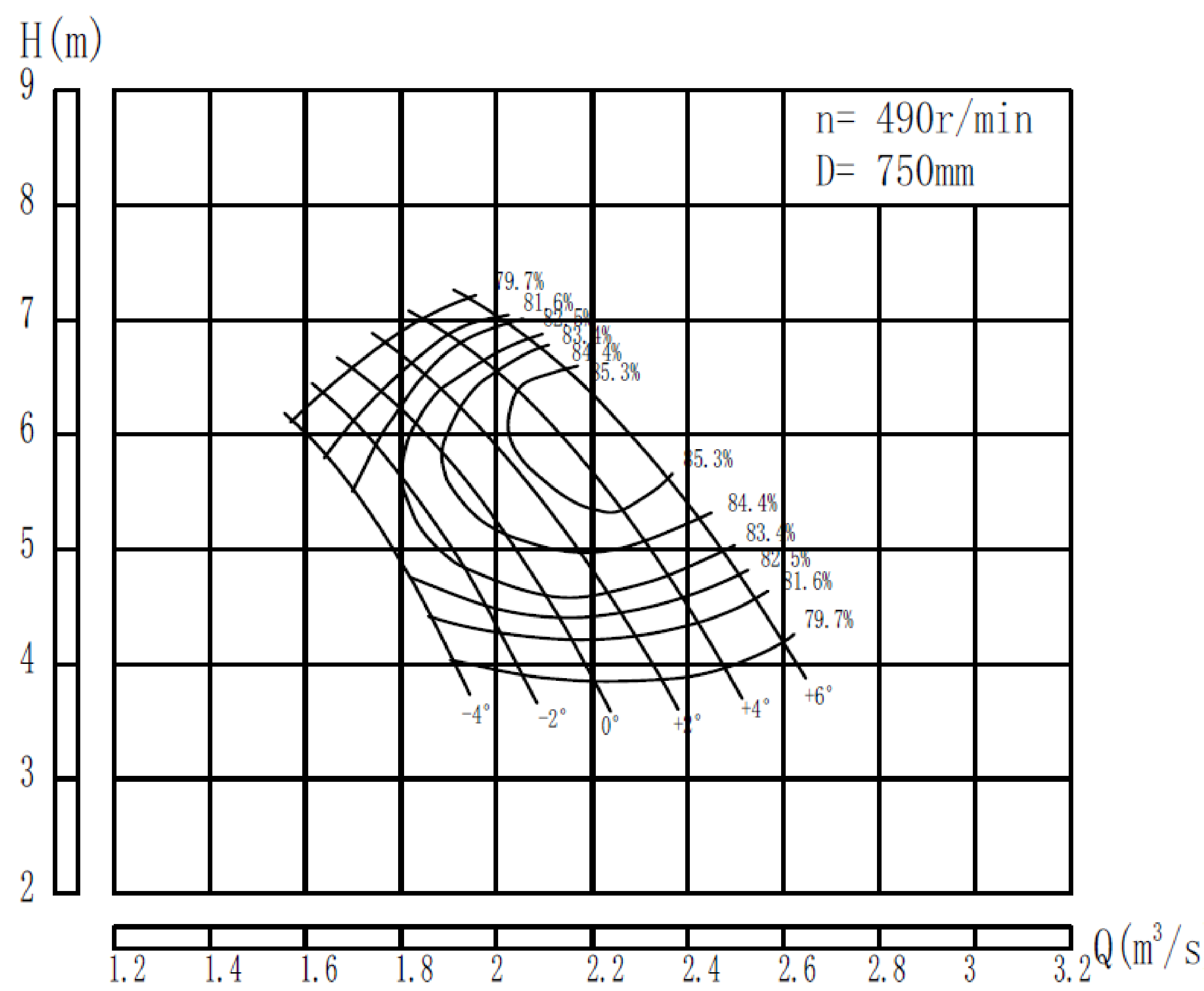
Performance Curve of VSP9180.800/750



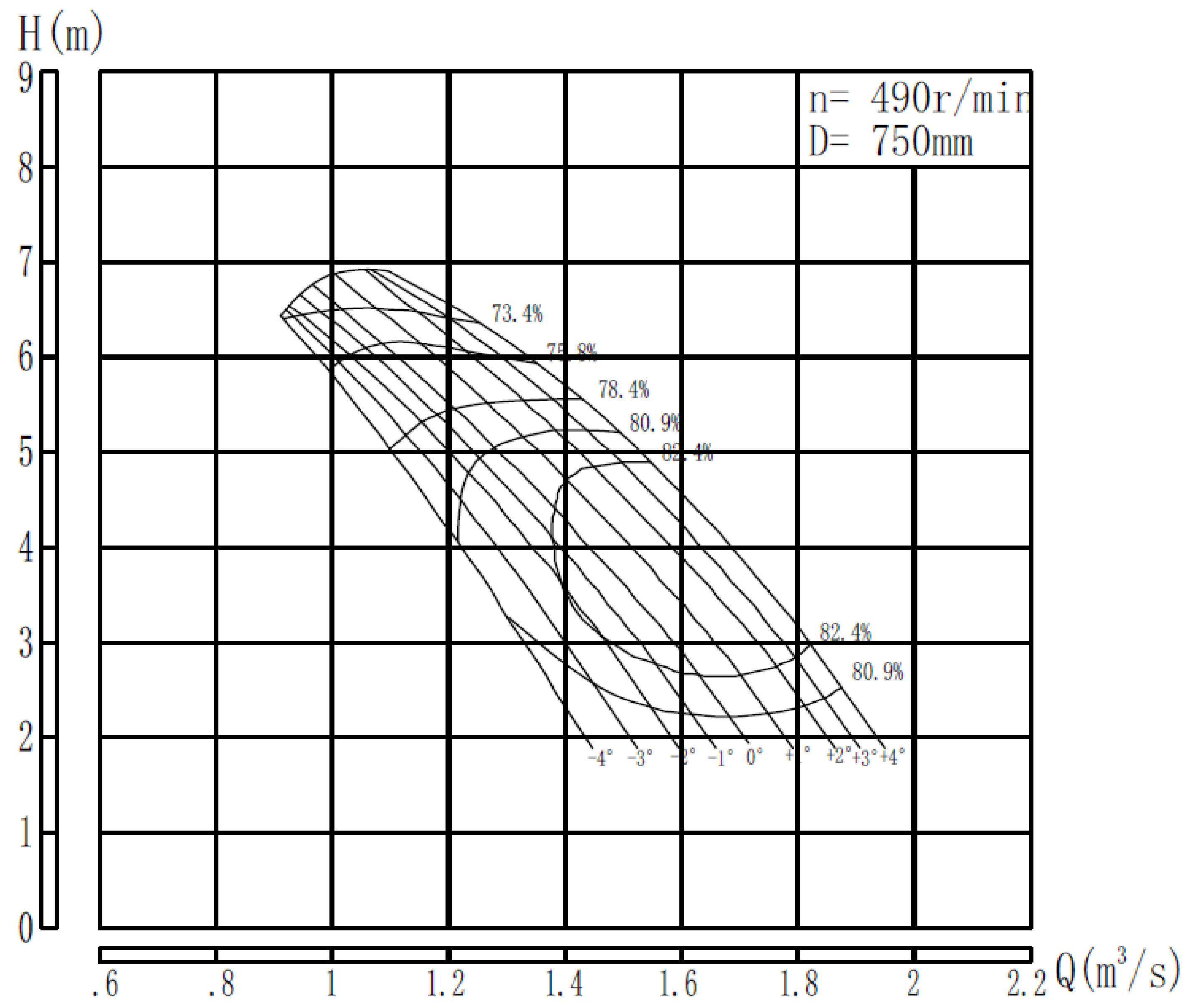
Performance Curve of VSP9315.800/750



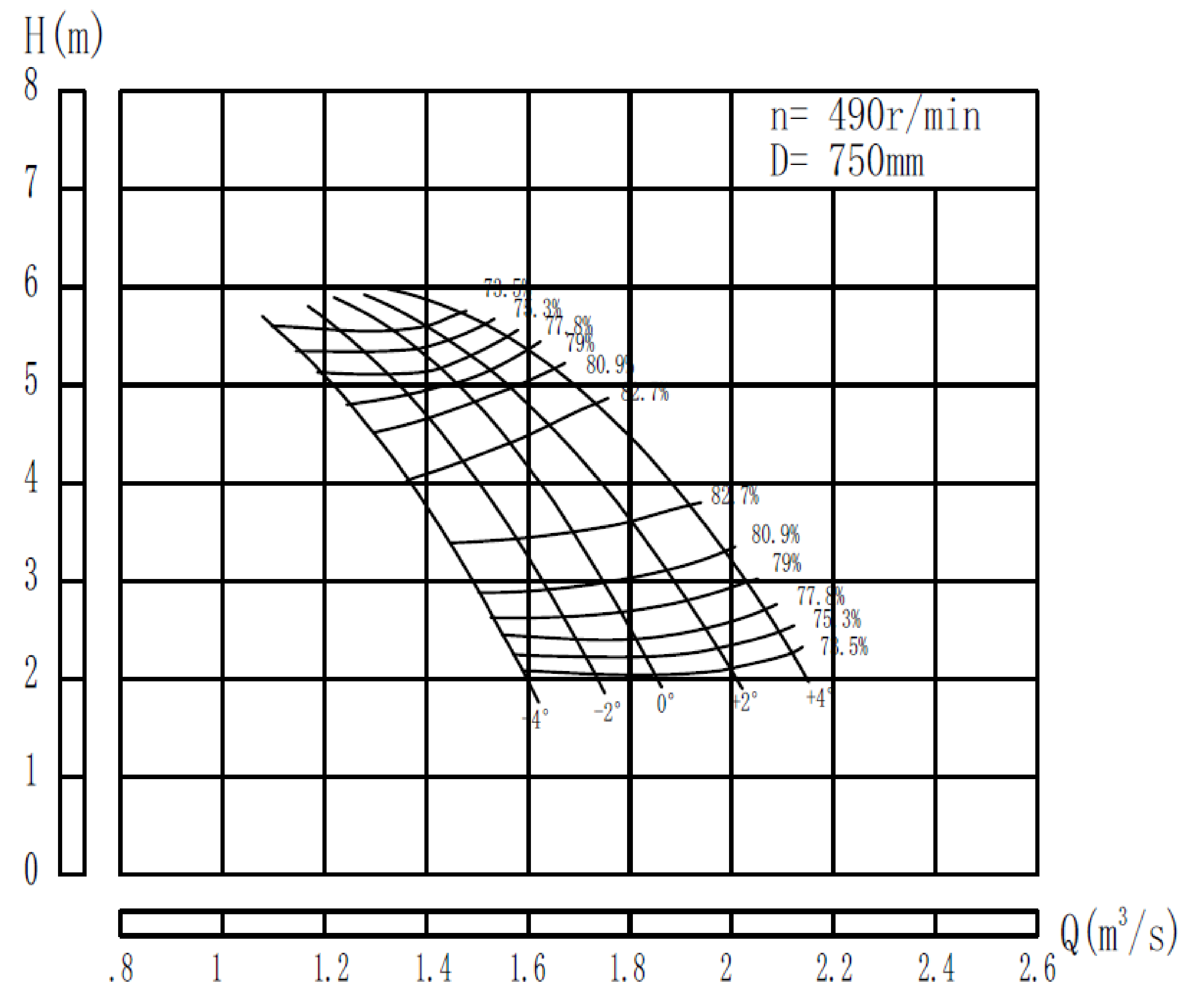
Performance Curve of VSP9180.800/750



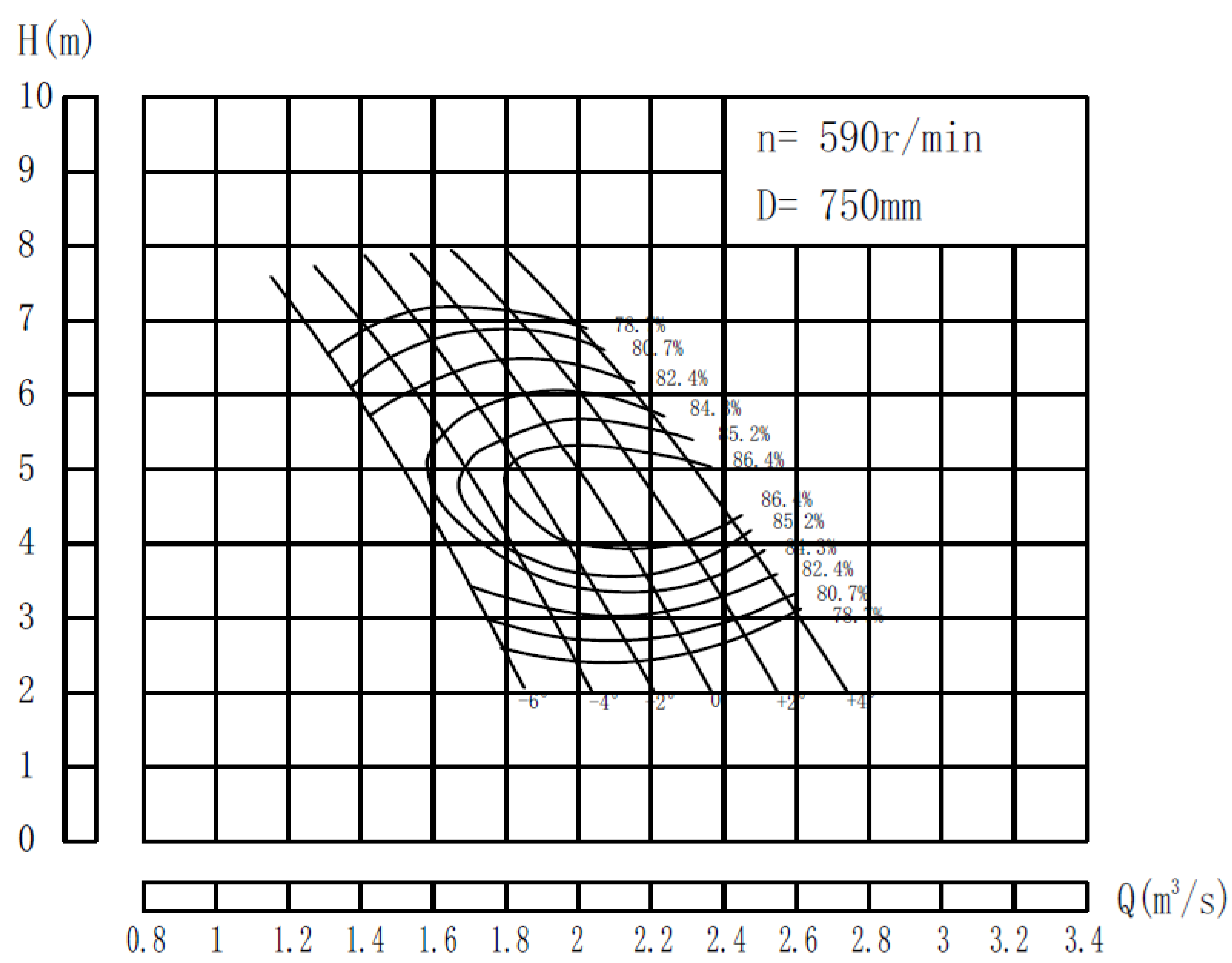
Performance Curve of VSP9132.800/750



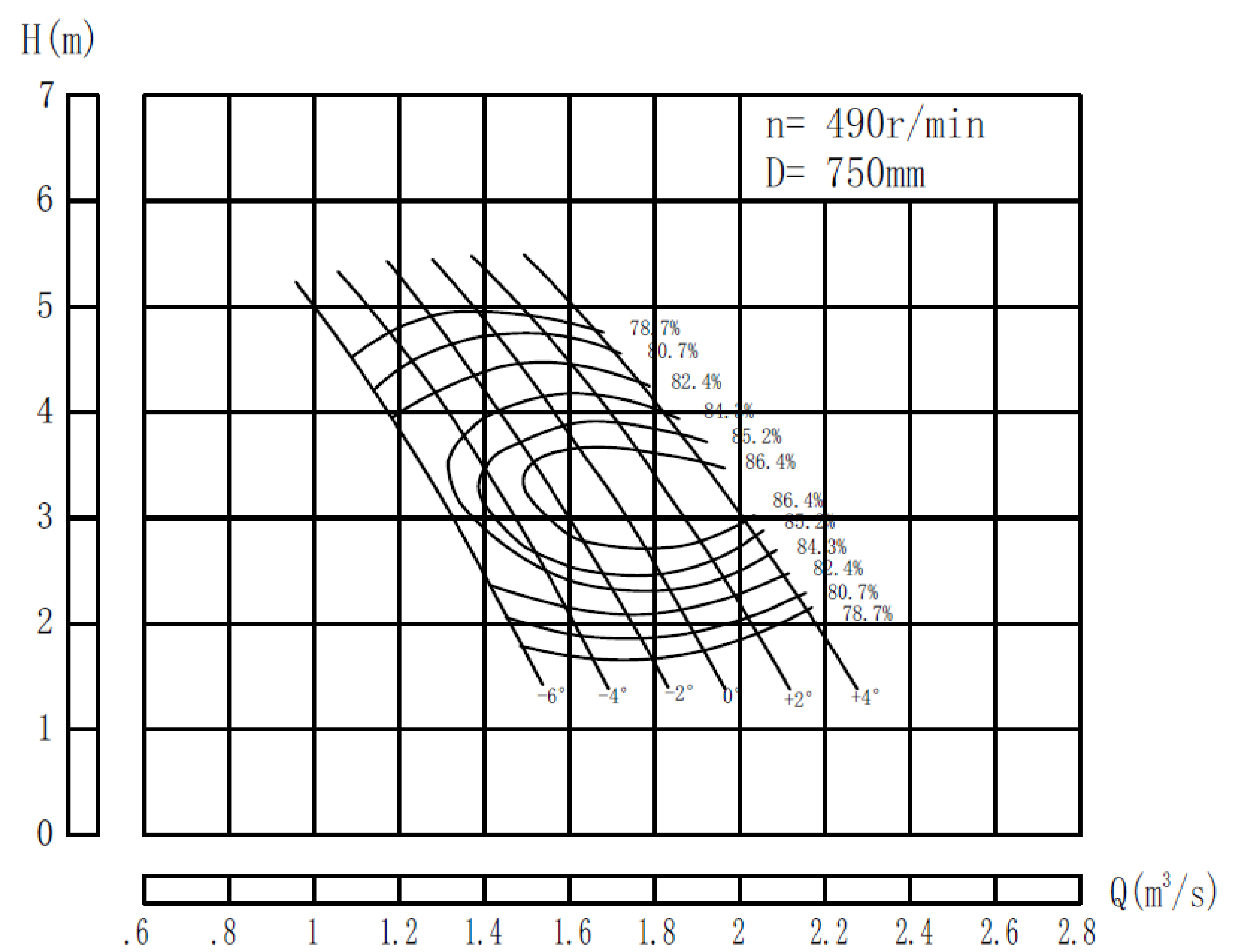
Performance Curve of VSP9132.800/750



Performance Curve of VSP9180.800/750



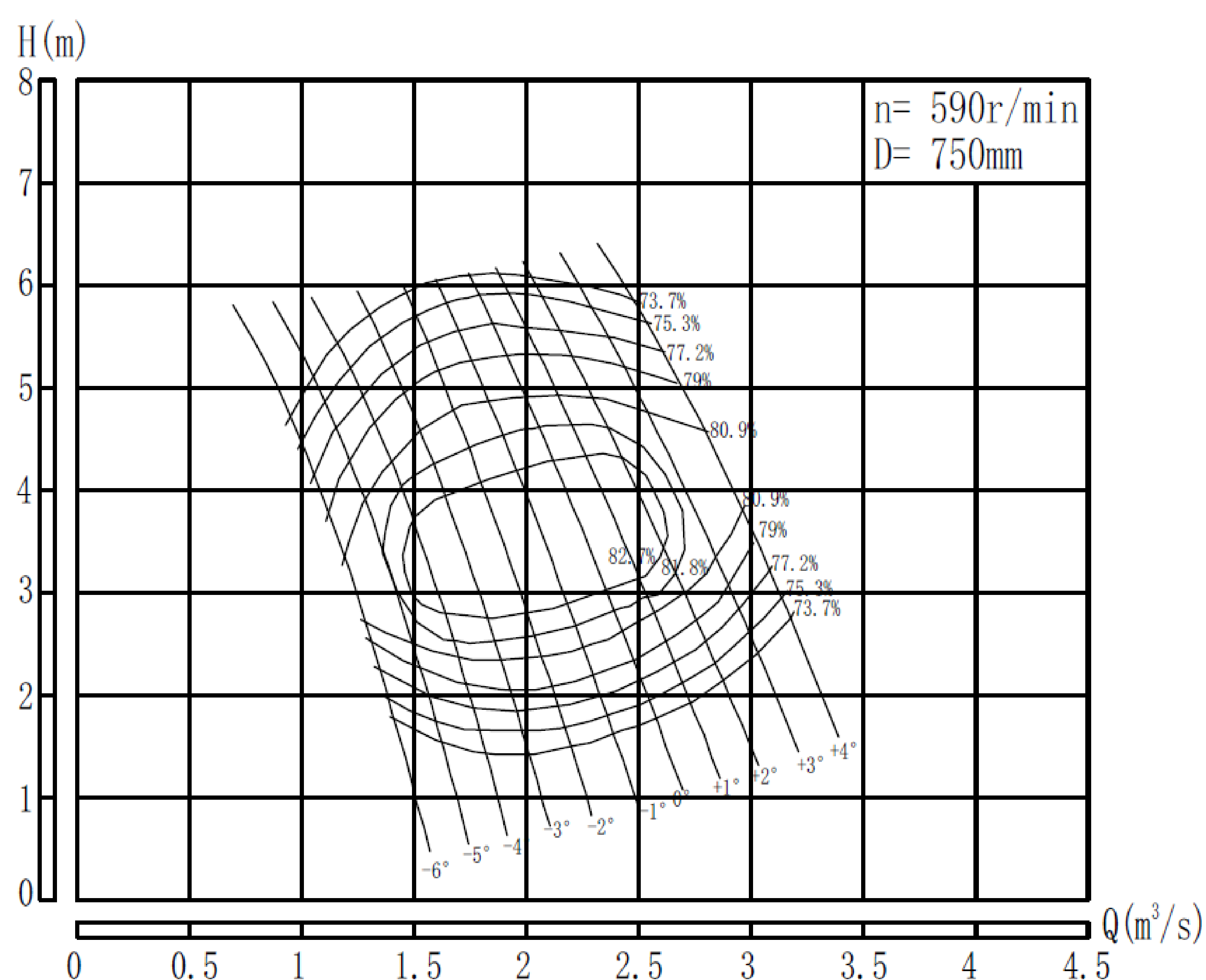
Performance Curve of VSP9110.800/750



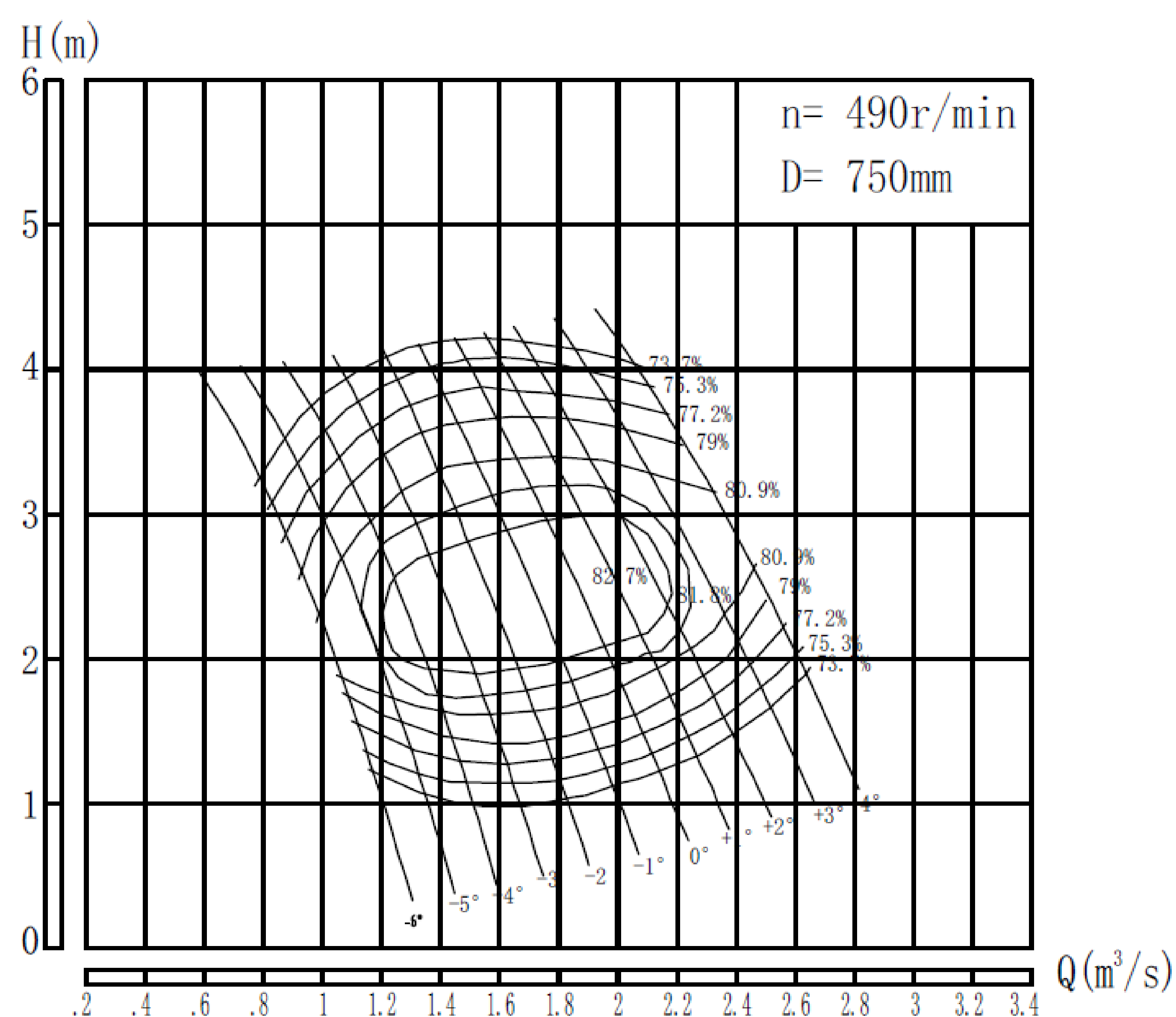
Performance Curve

Axial flow & Axial Mixed flow Overview curve

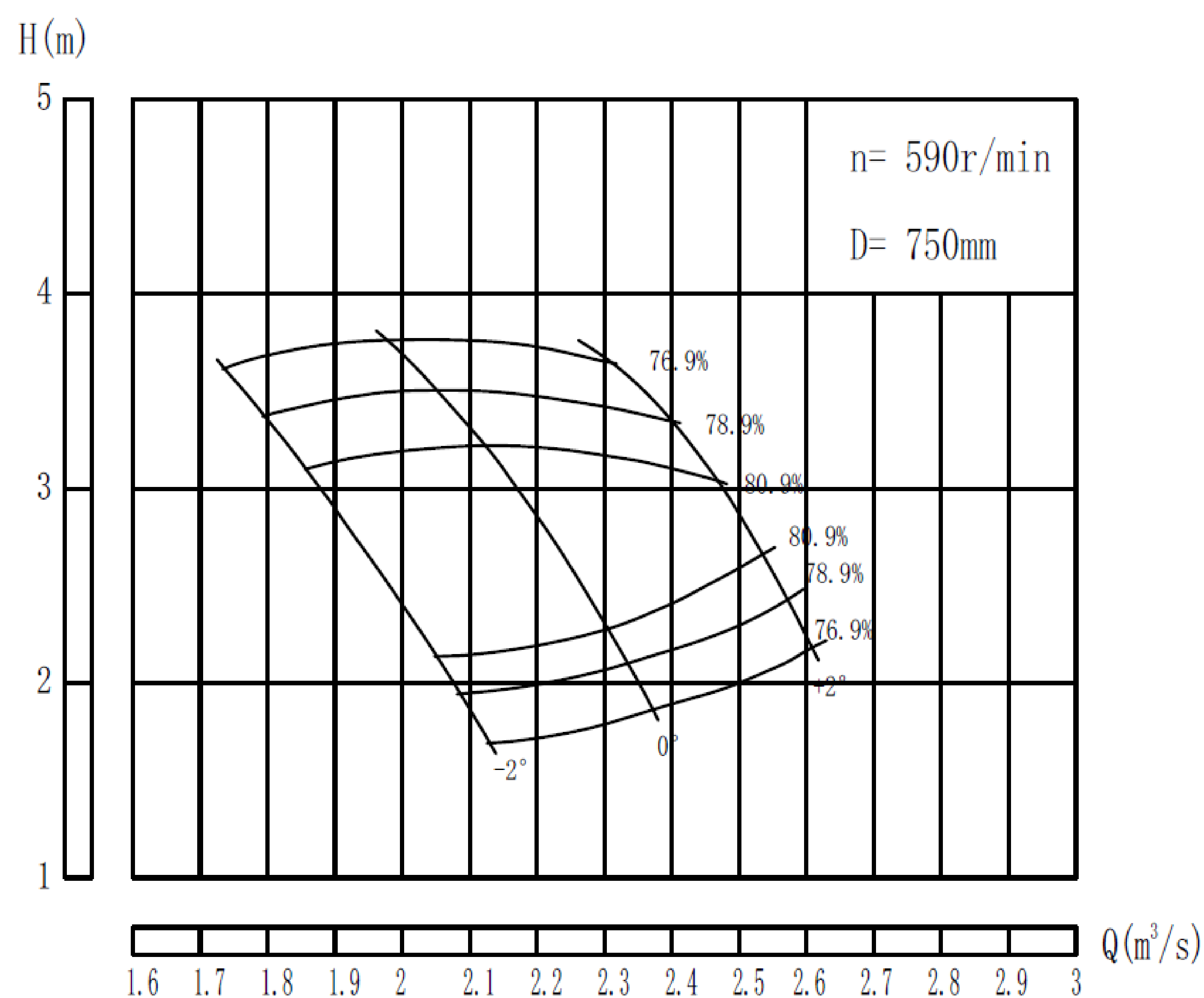
Performance Curve of VSP9220.800/750



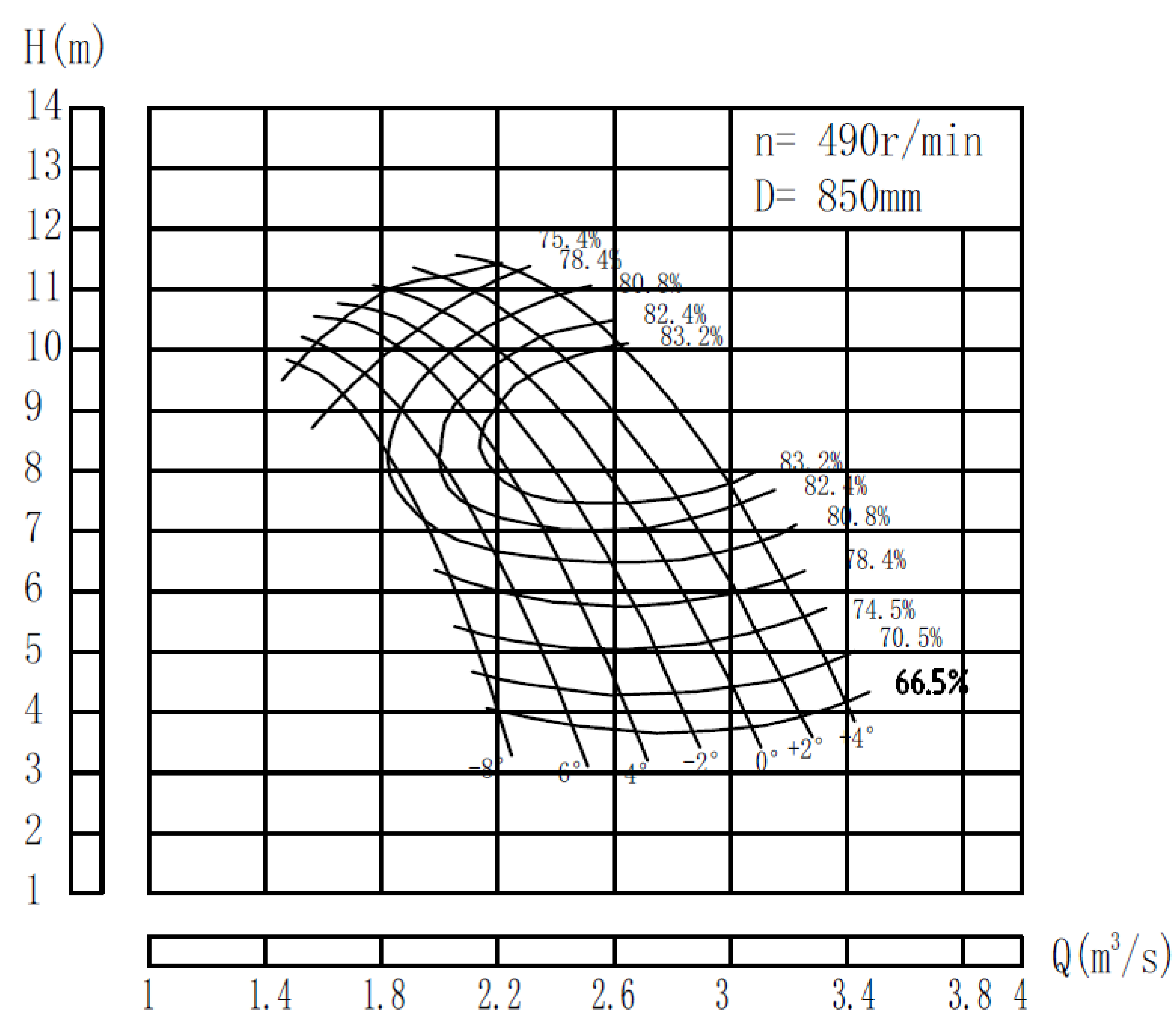
Performance Curve of VSP9200.800/750



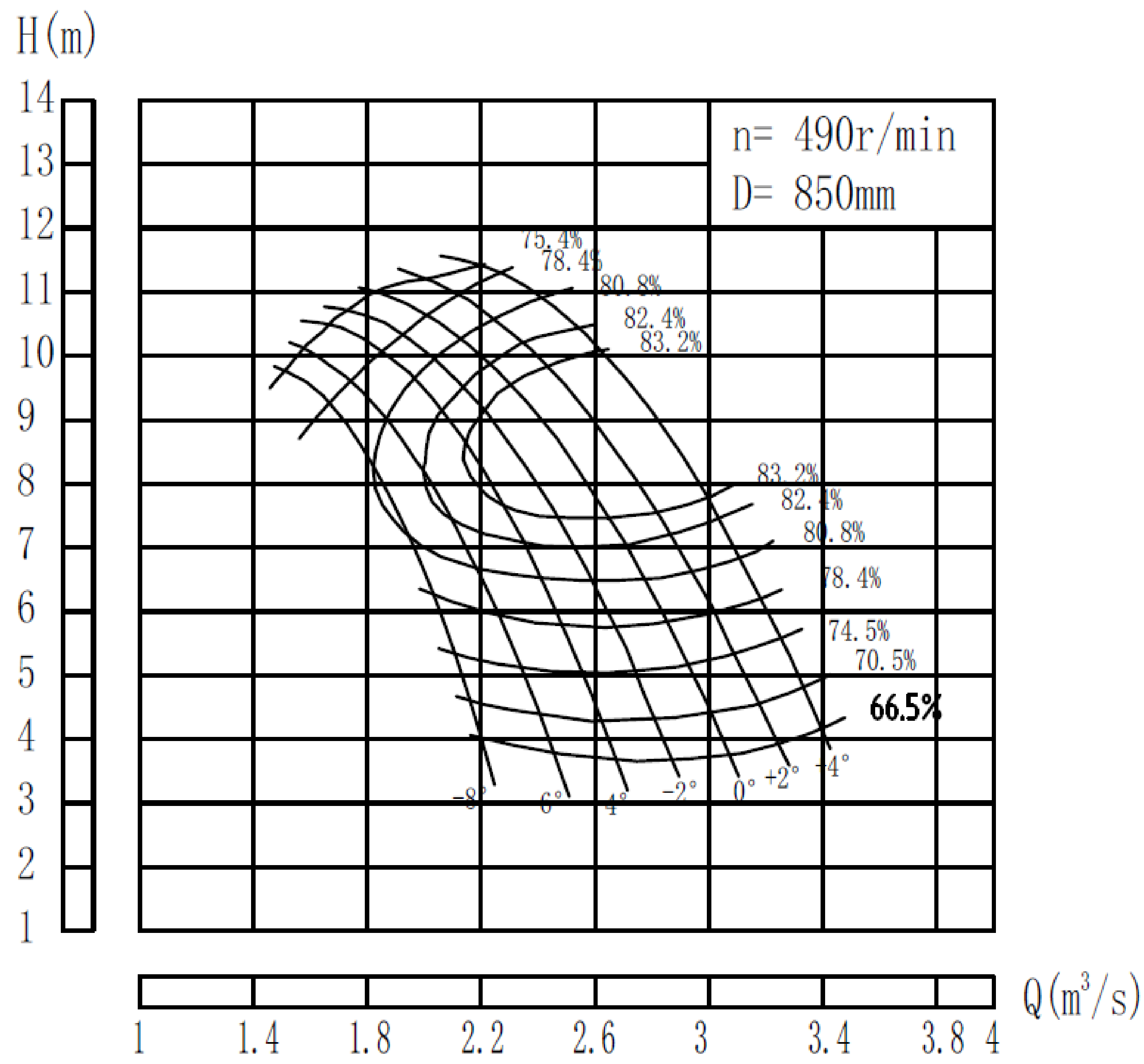
Performance Curve of VSP9132.800/750



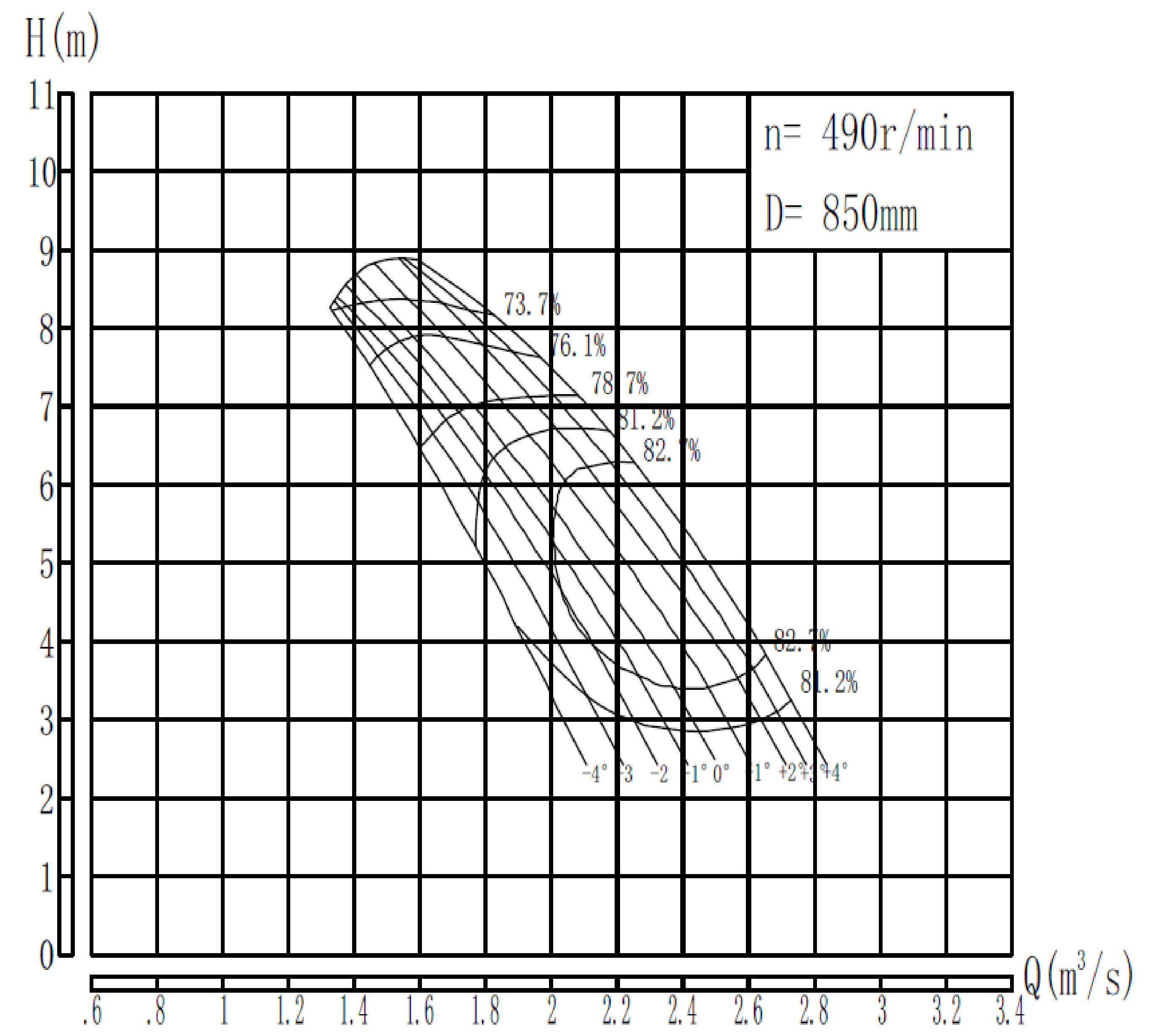
Performance Curve of VSP9355.900/850



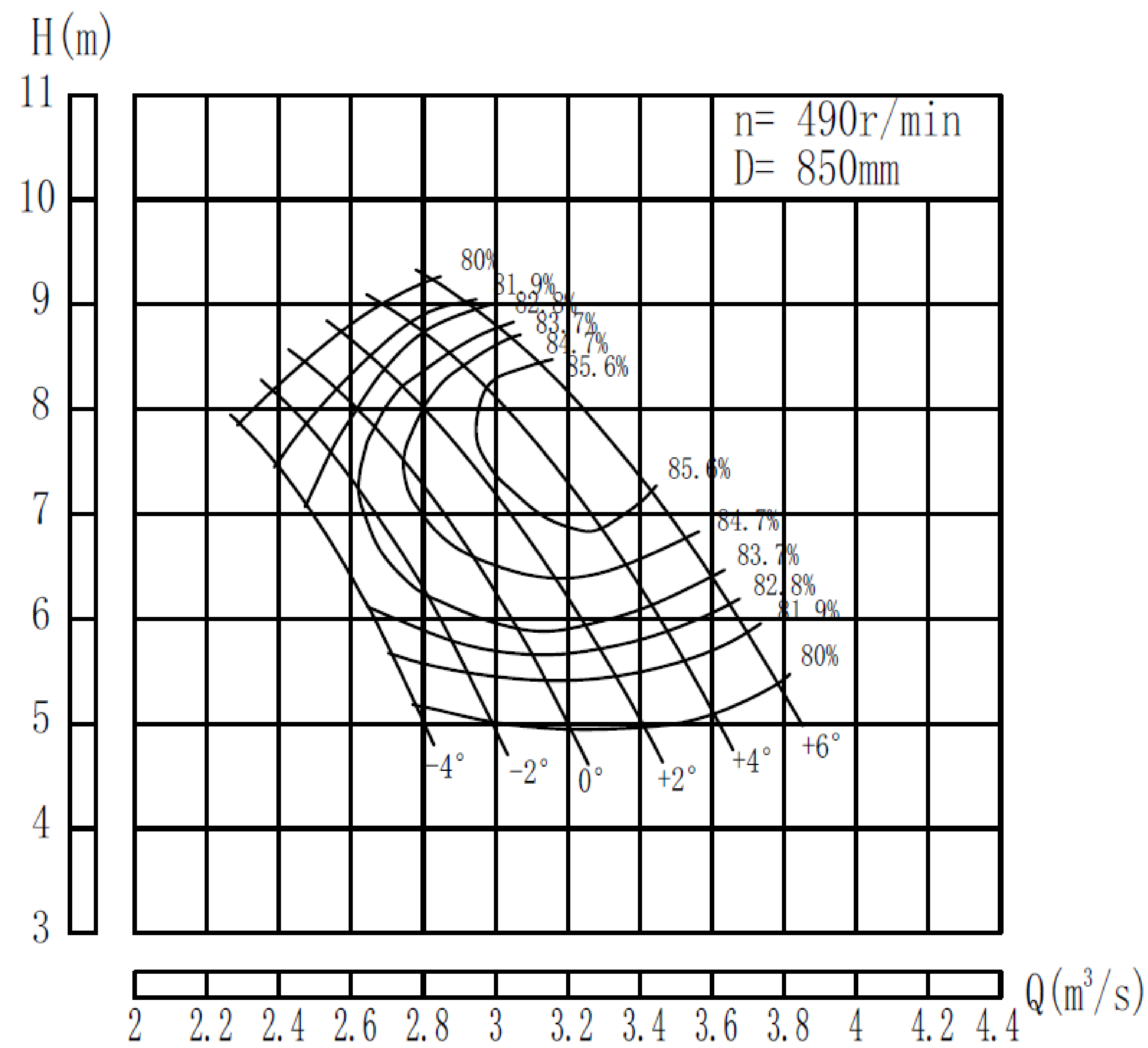
Performance Curve of VSP9355.900/850



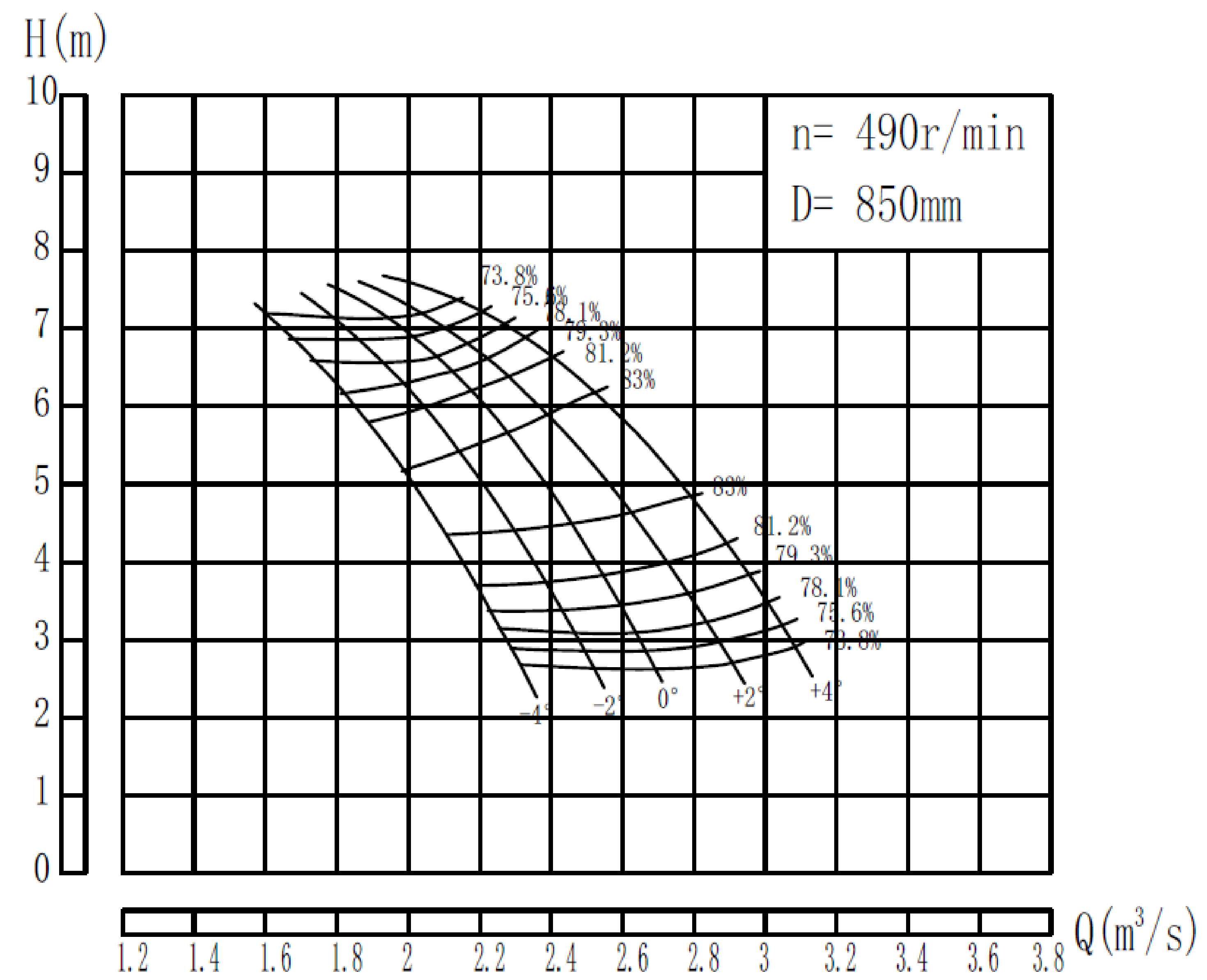
Performance Curve of VSP9220.900/850



Performance Curve of VSP9355.900/850



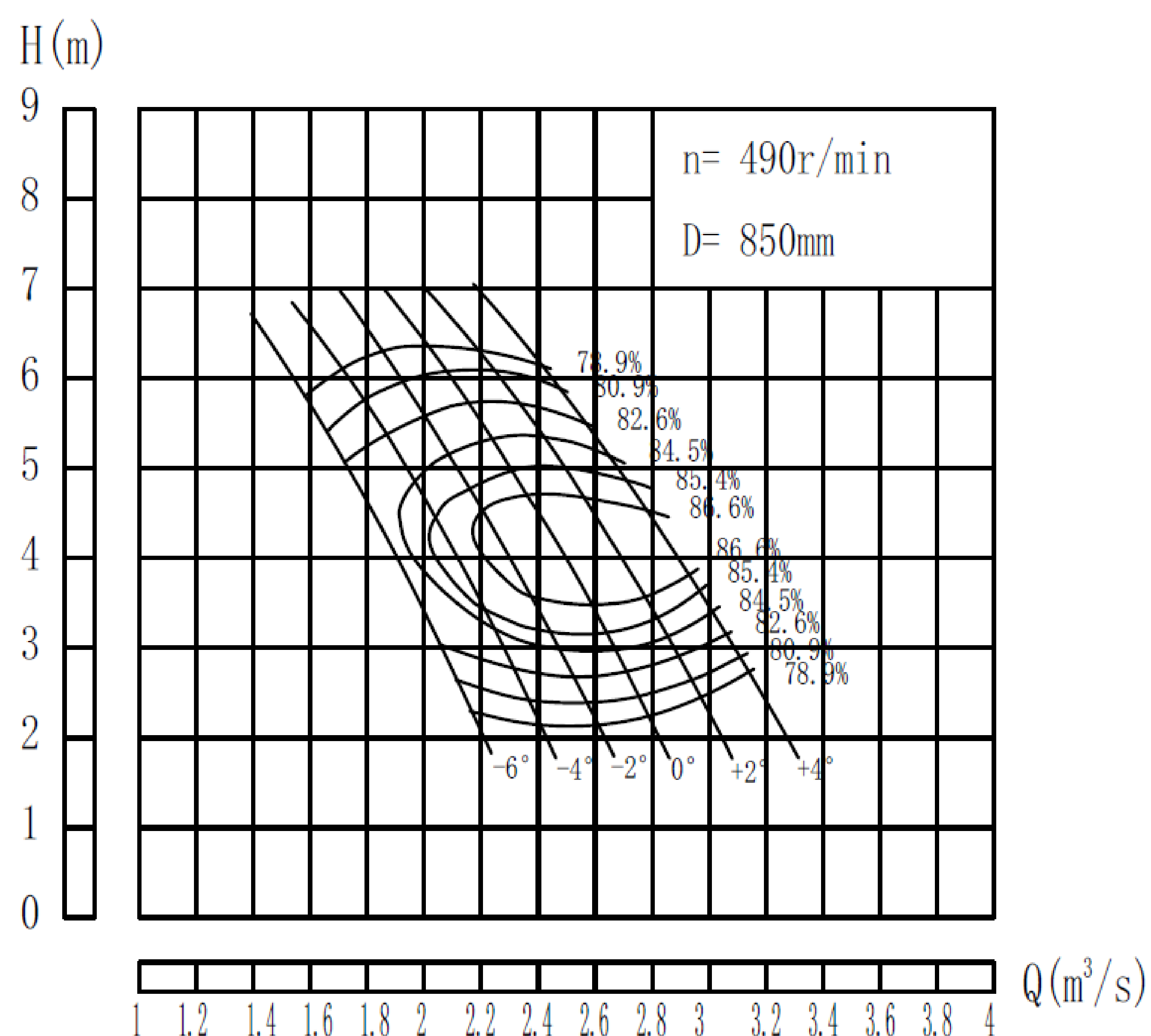
Performance Curve of VSP9220.900/850



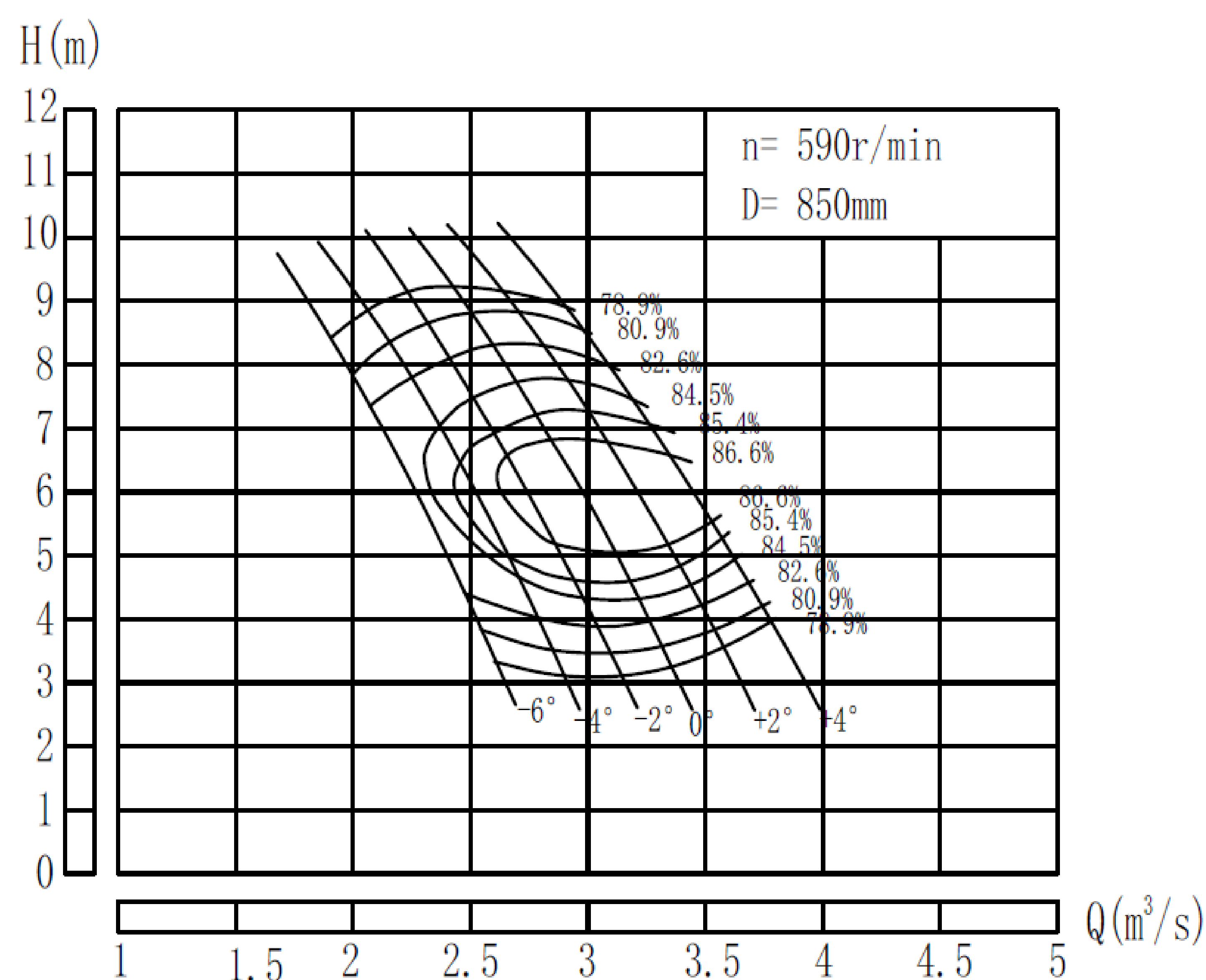
Performance Curve

Axial flow & Axial Mixed flow Overview curve

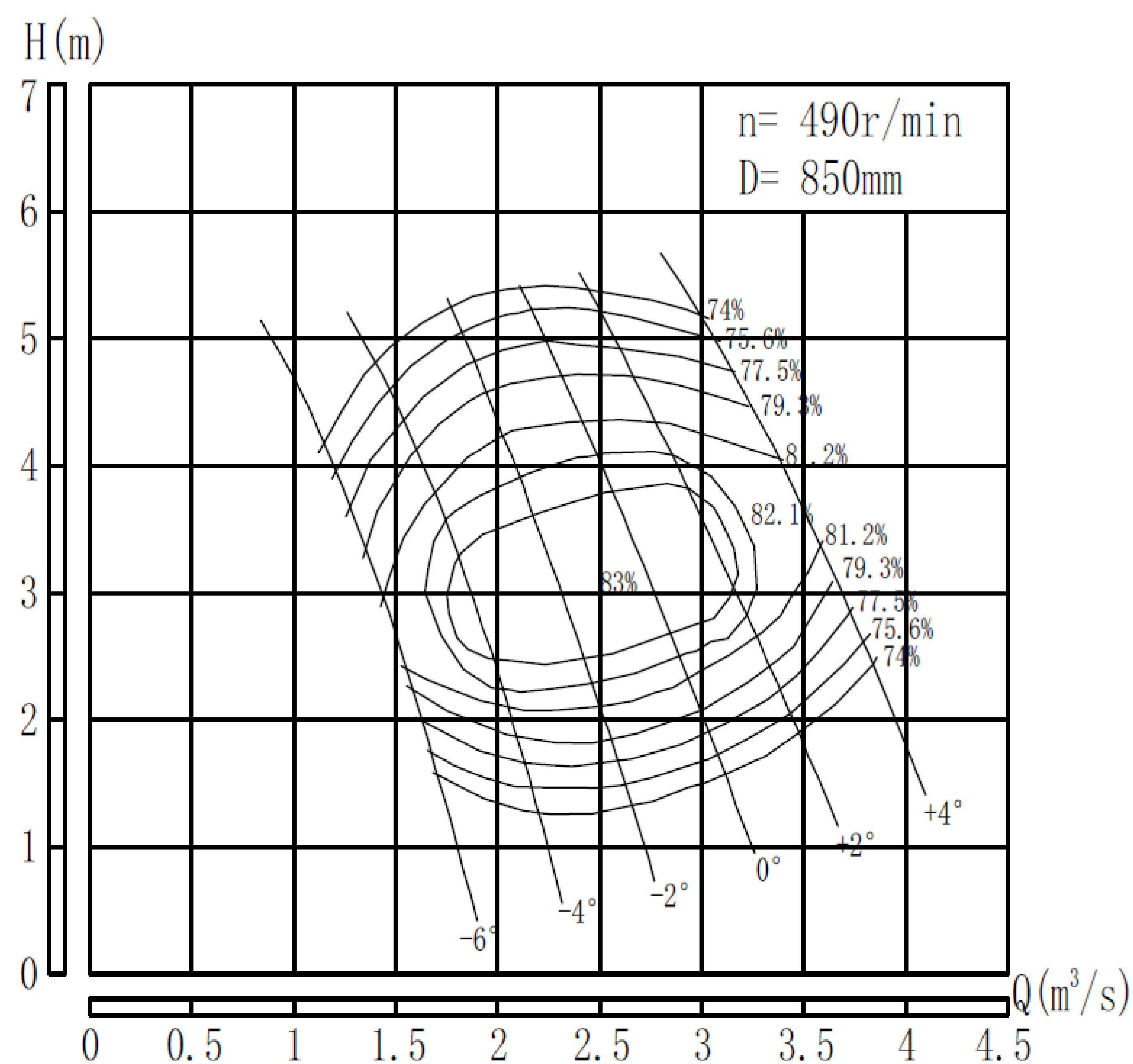
Performance Curve of VSP9200.900/850



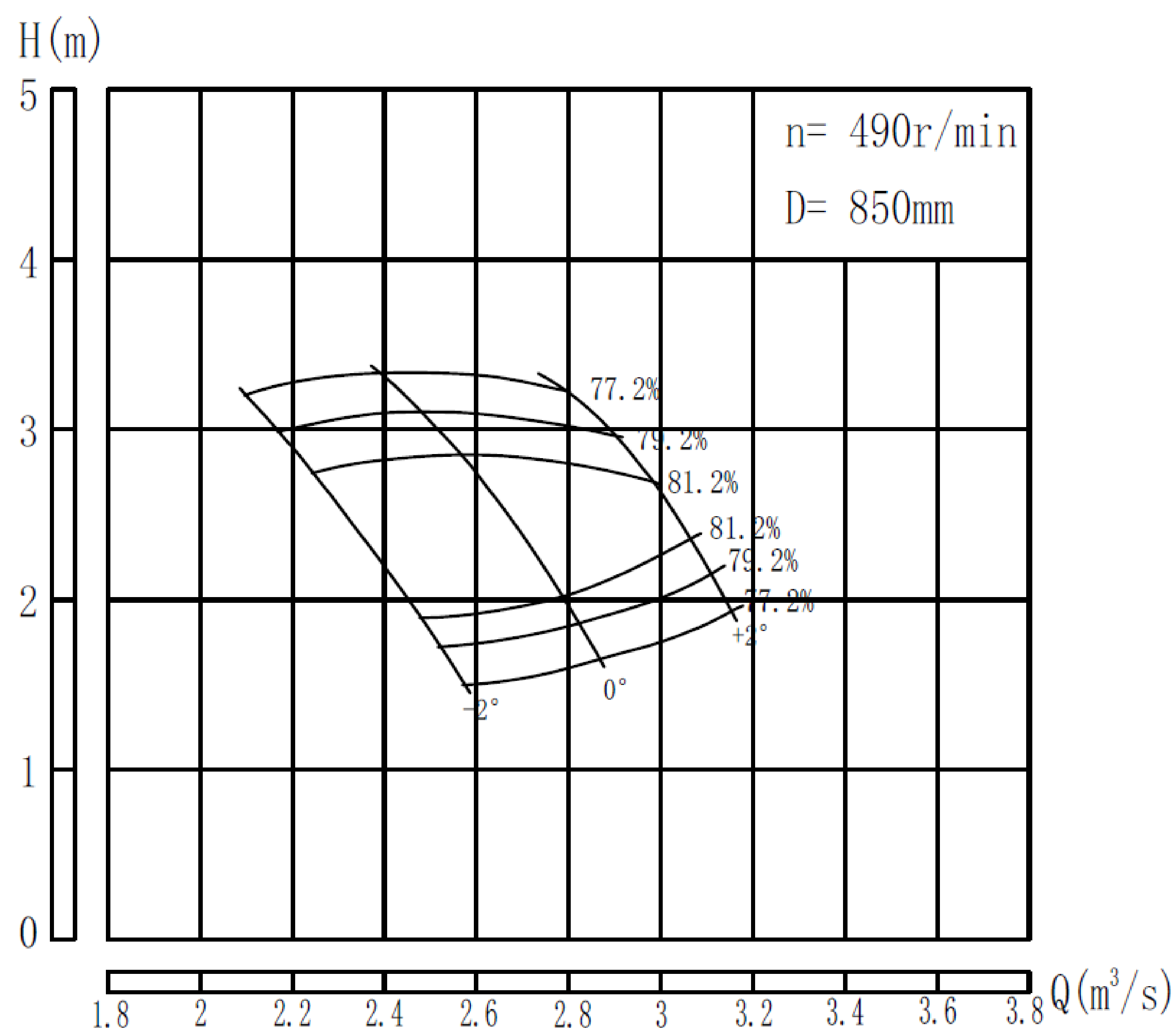
Performance Curve of VSP9355.900/850



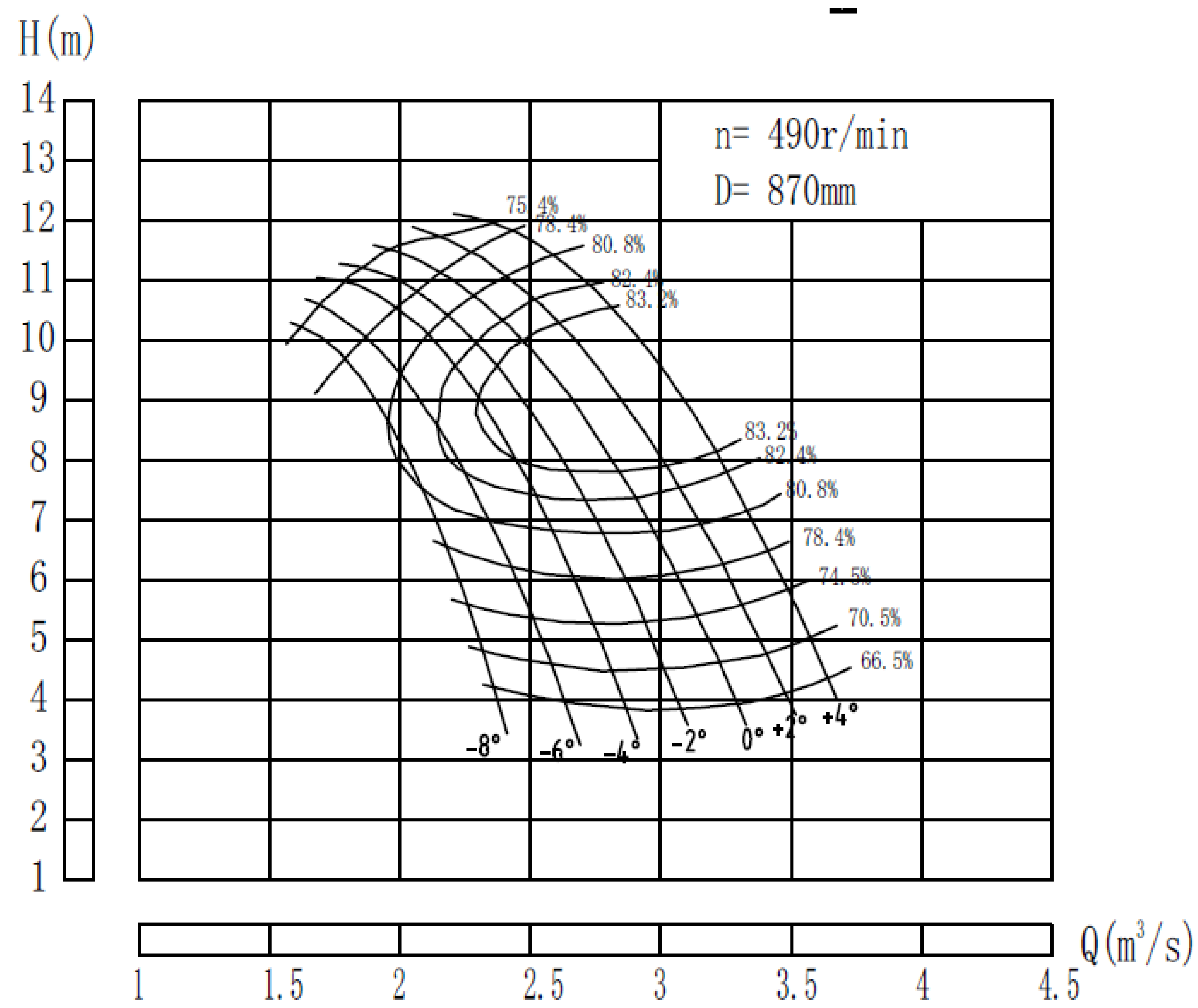
Performance Curve of VSP9220.900/850



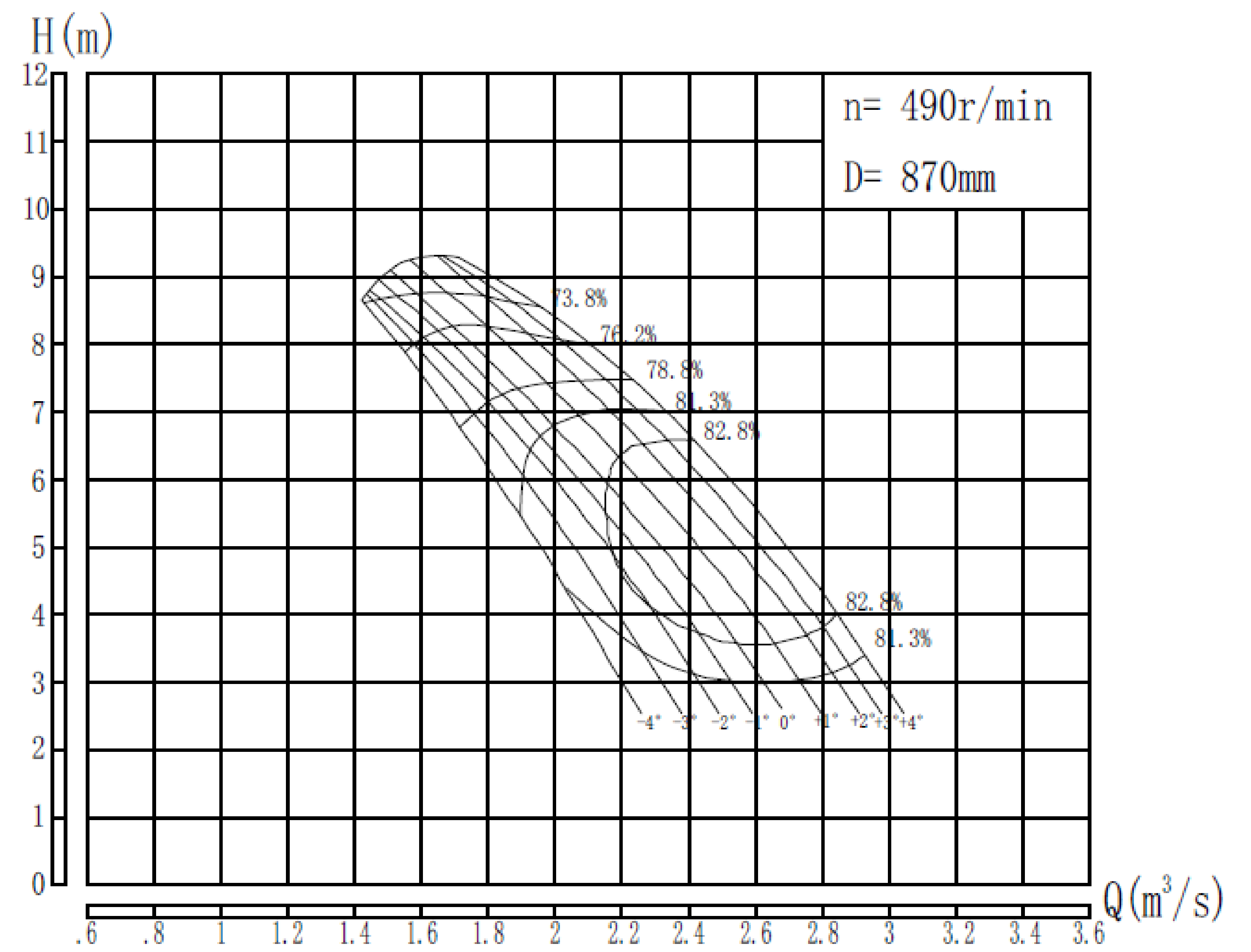
Performance Curve of VSP9132.900/850



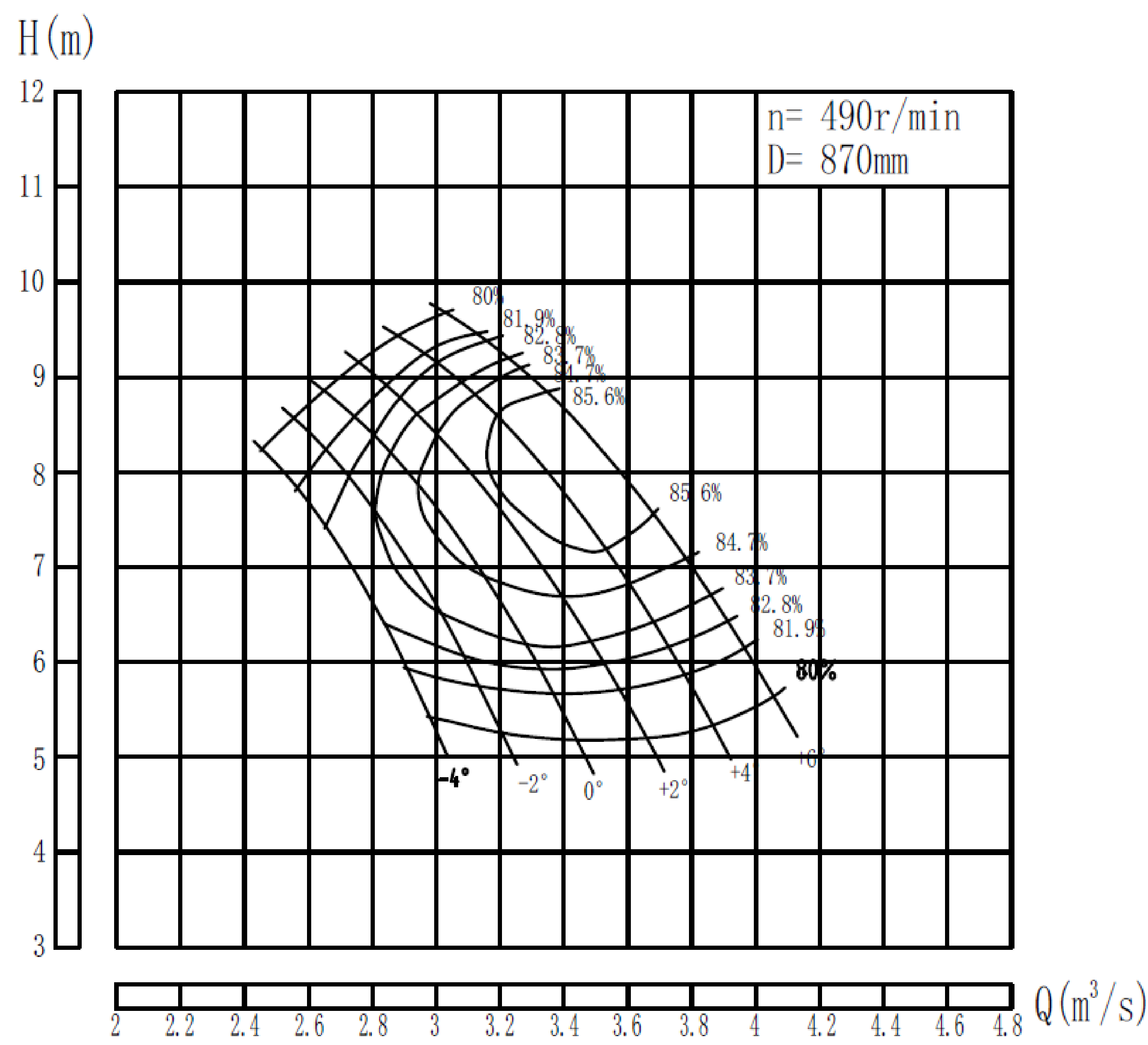
Performance Curve of VSP9400.1000/870



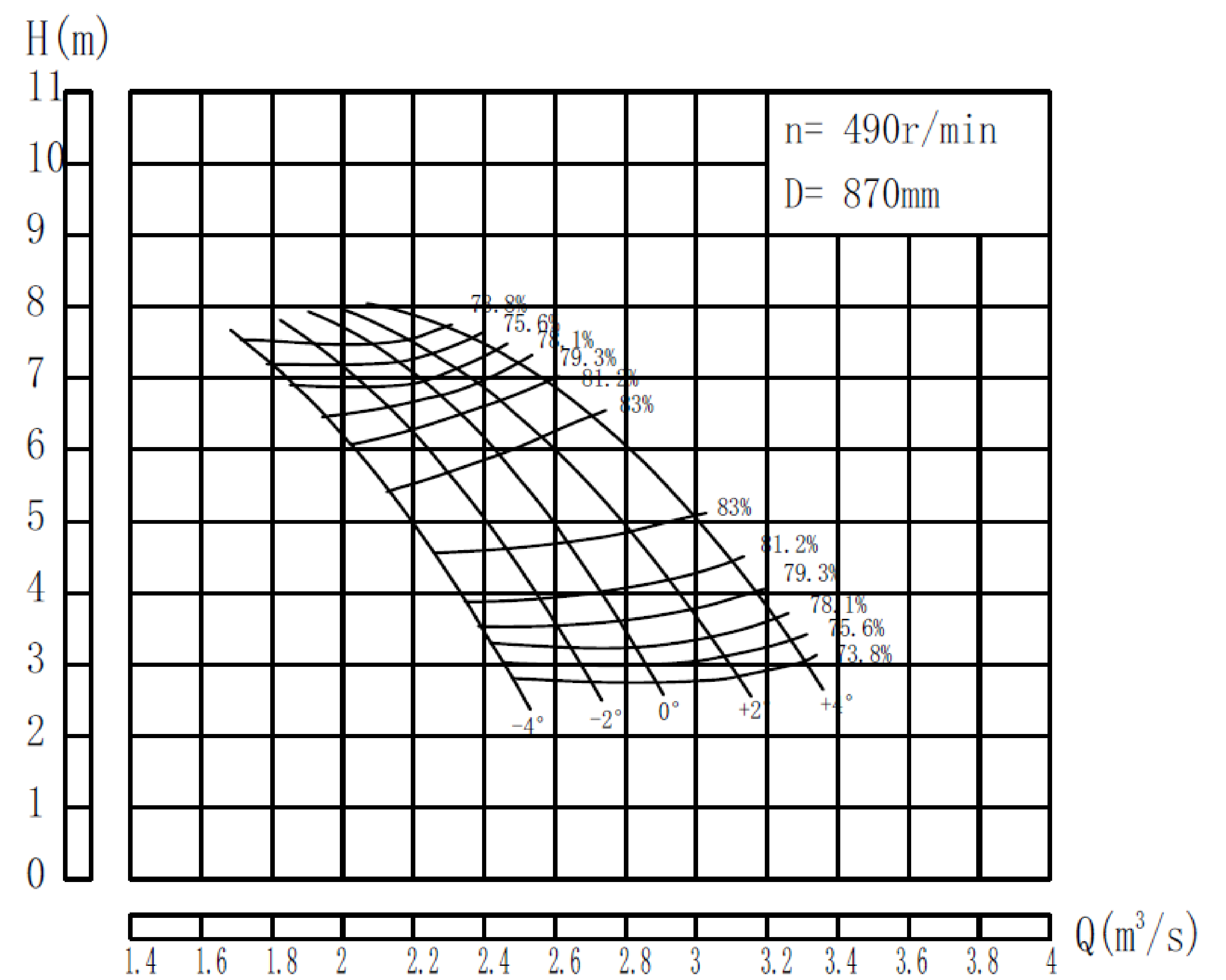
Performance Curve of VSP9250.1000/870



Performance Curve of VSP9400.1000/870



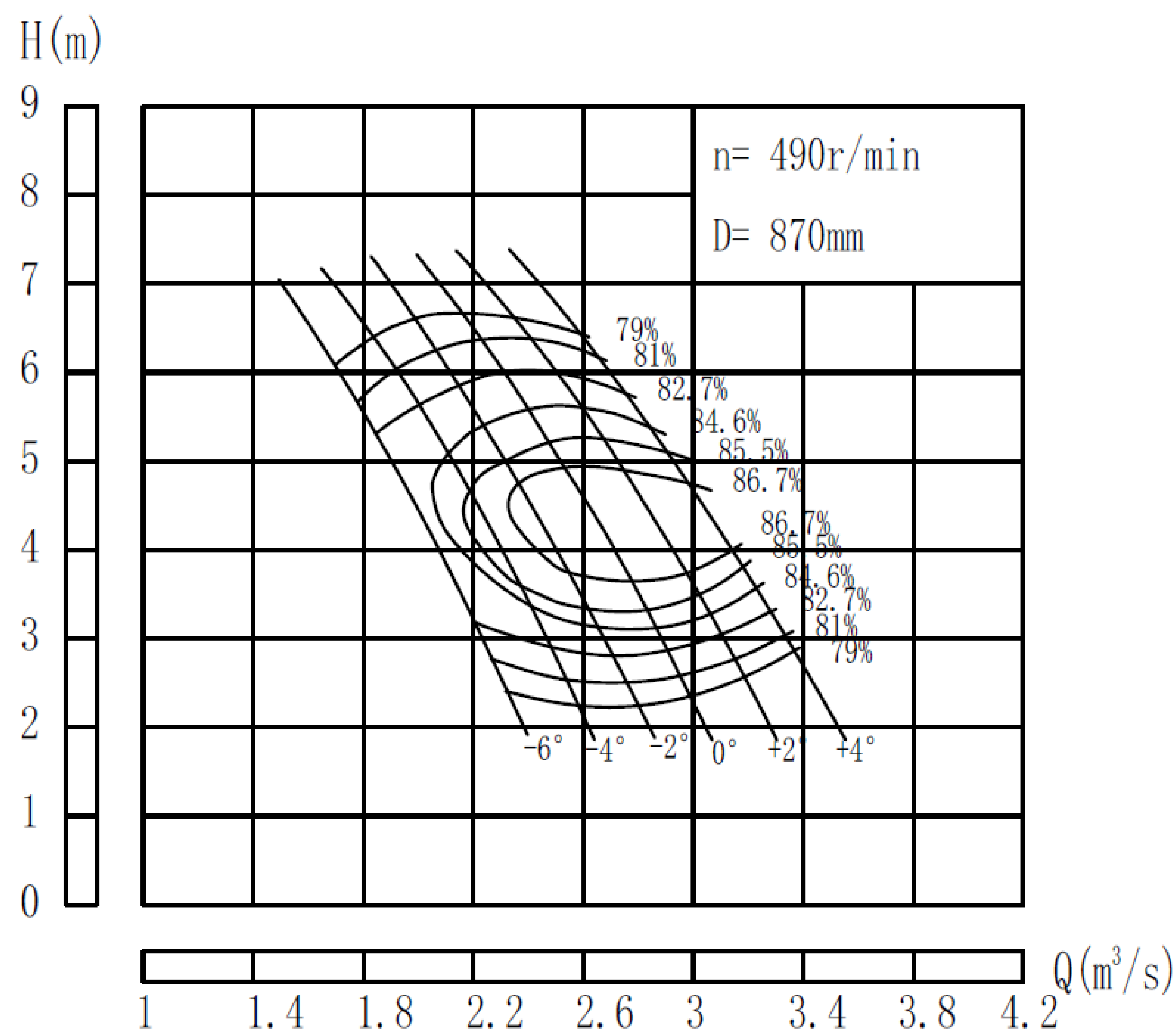
Performance Curve of VSP9250.1000/870



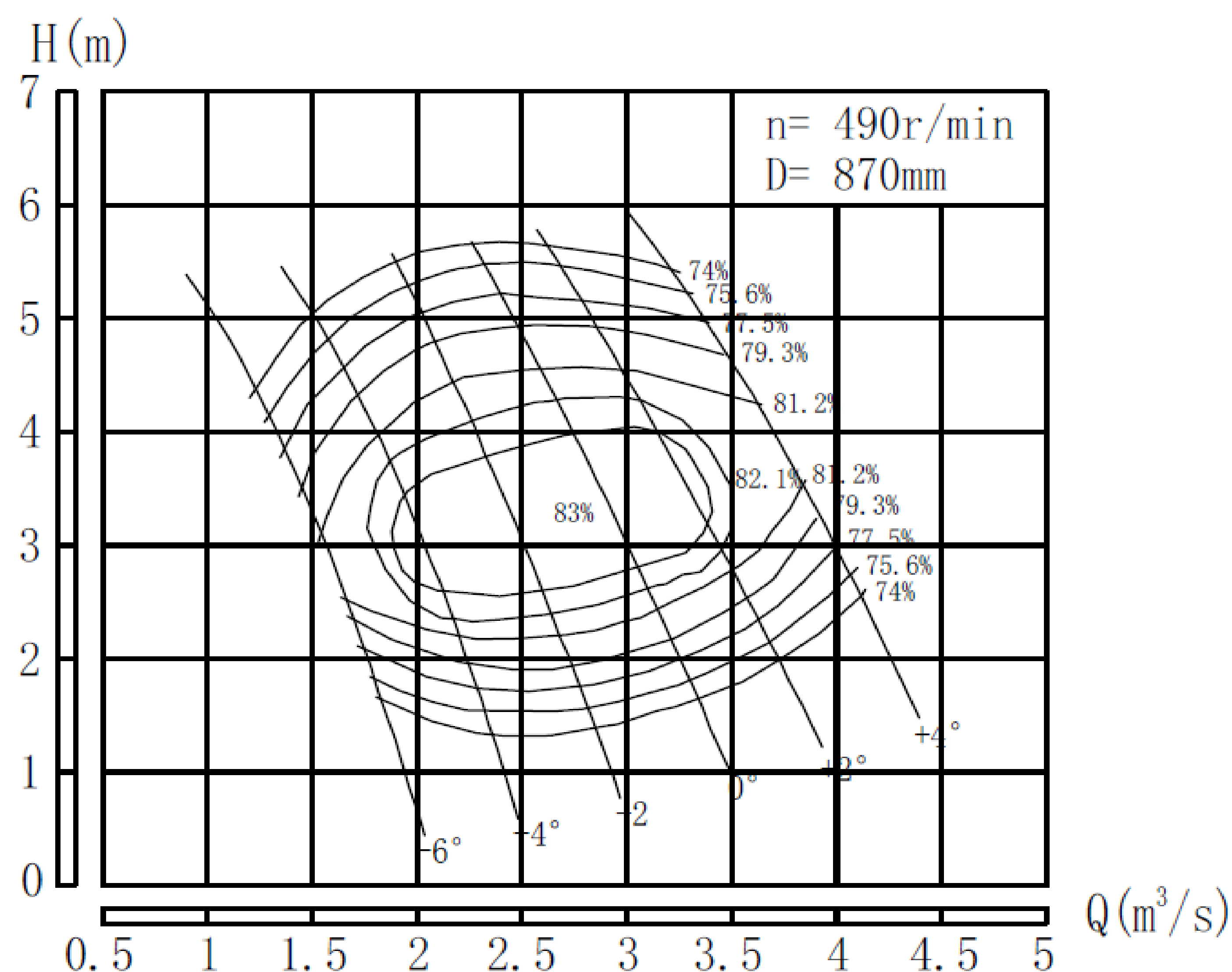
Performance Curve

Axial flow & Axial Mixed flow Overview curve

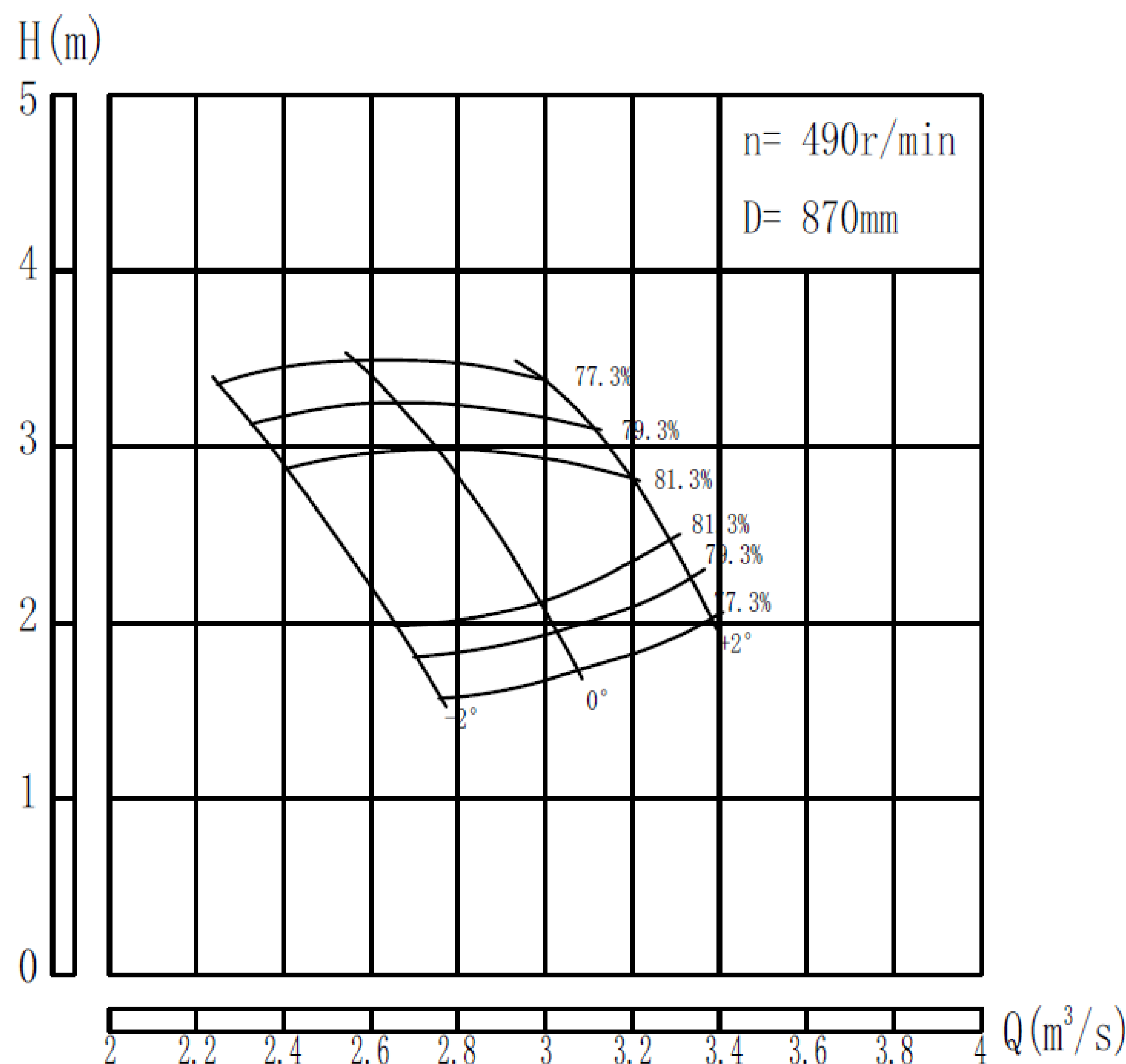
Performance Curve of VSP9220.1000/870



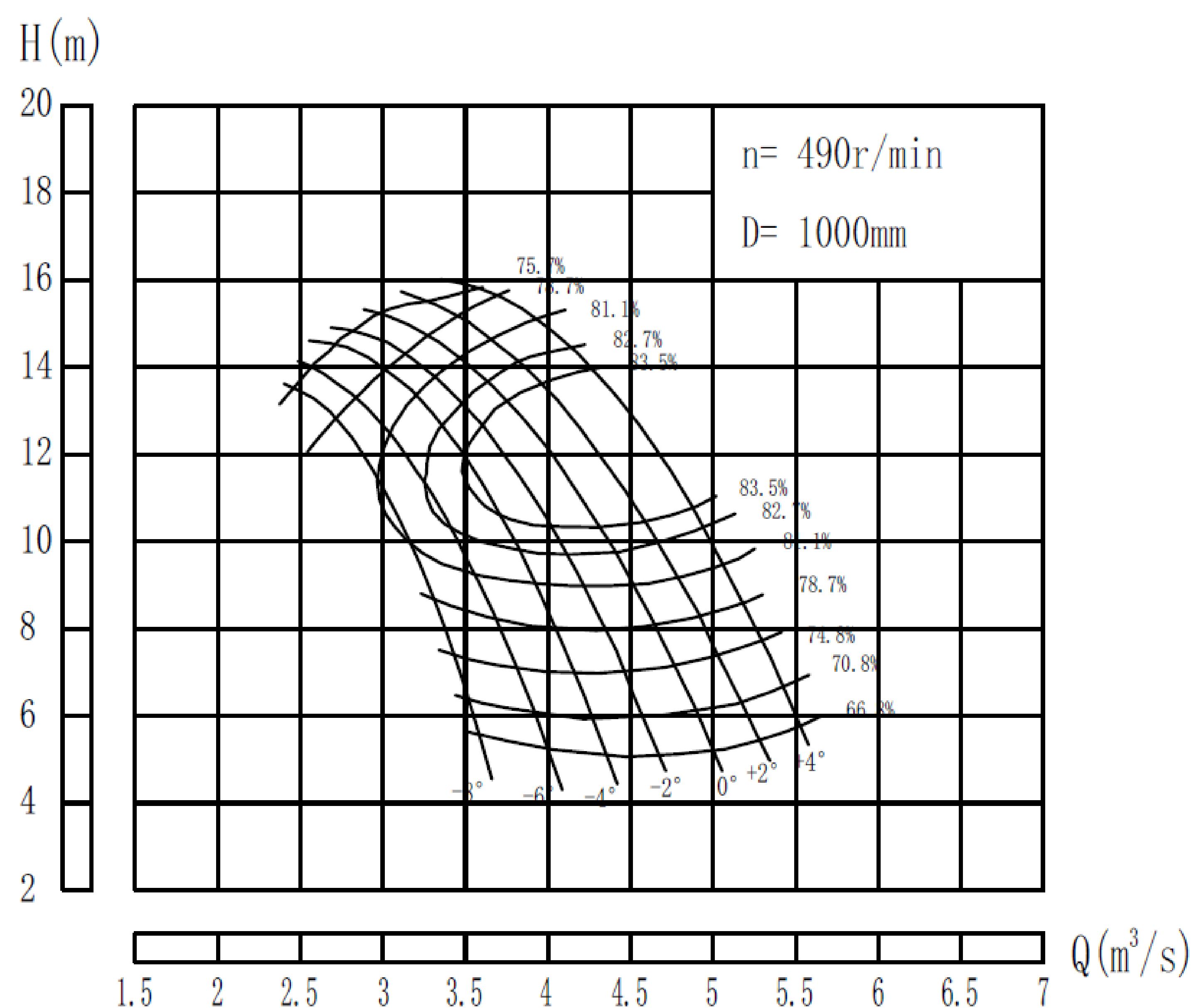
Performance Curve of VSP9250.1000/870



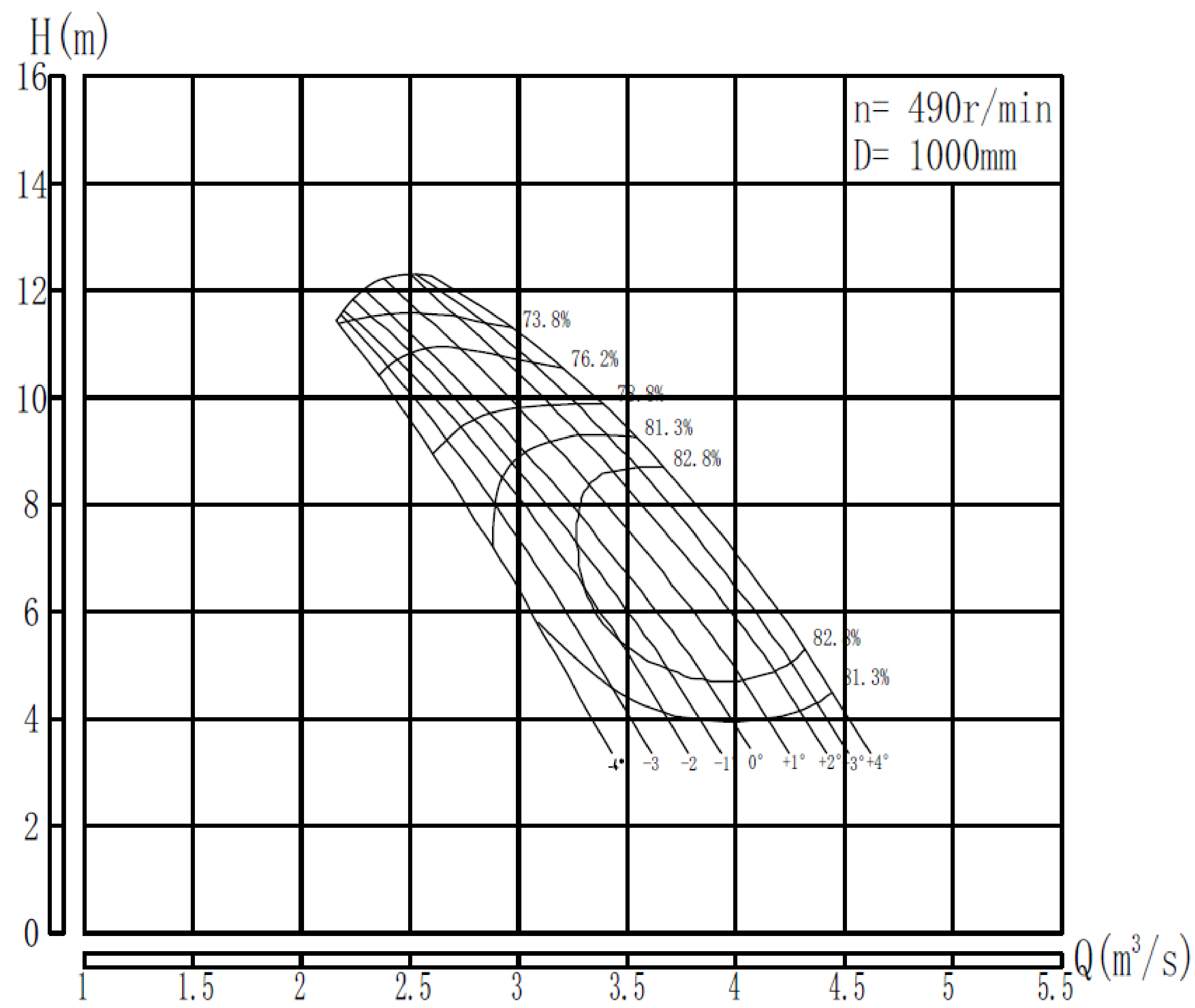
Performance Curve of VSP9155.1000/870



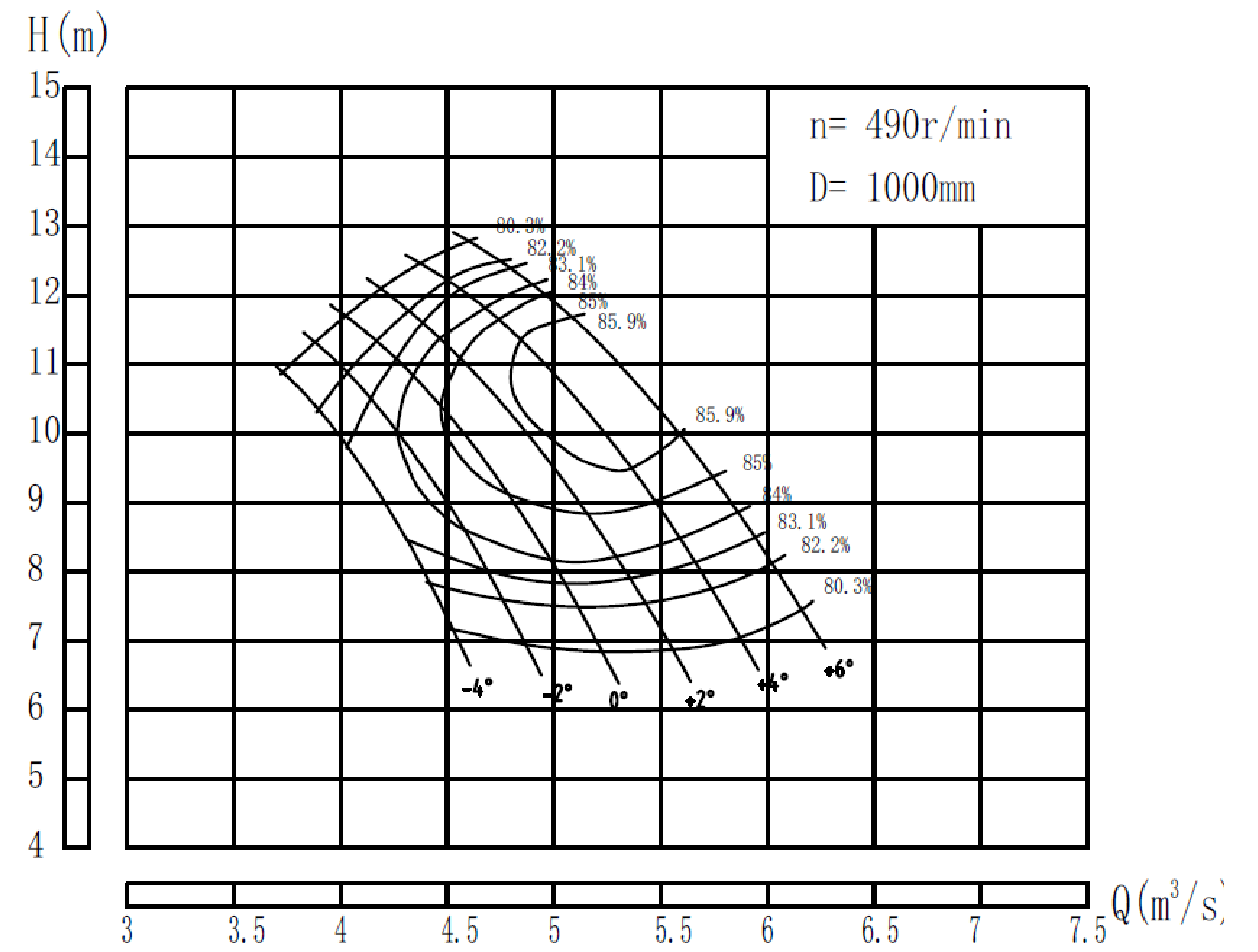
Performance Curve of VSP9800.1200/1000



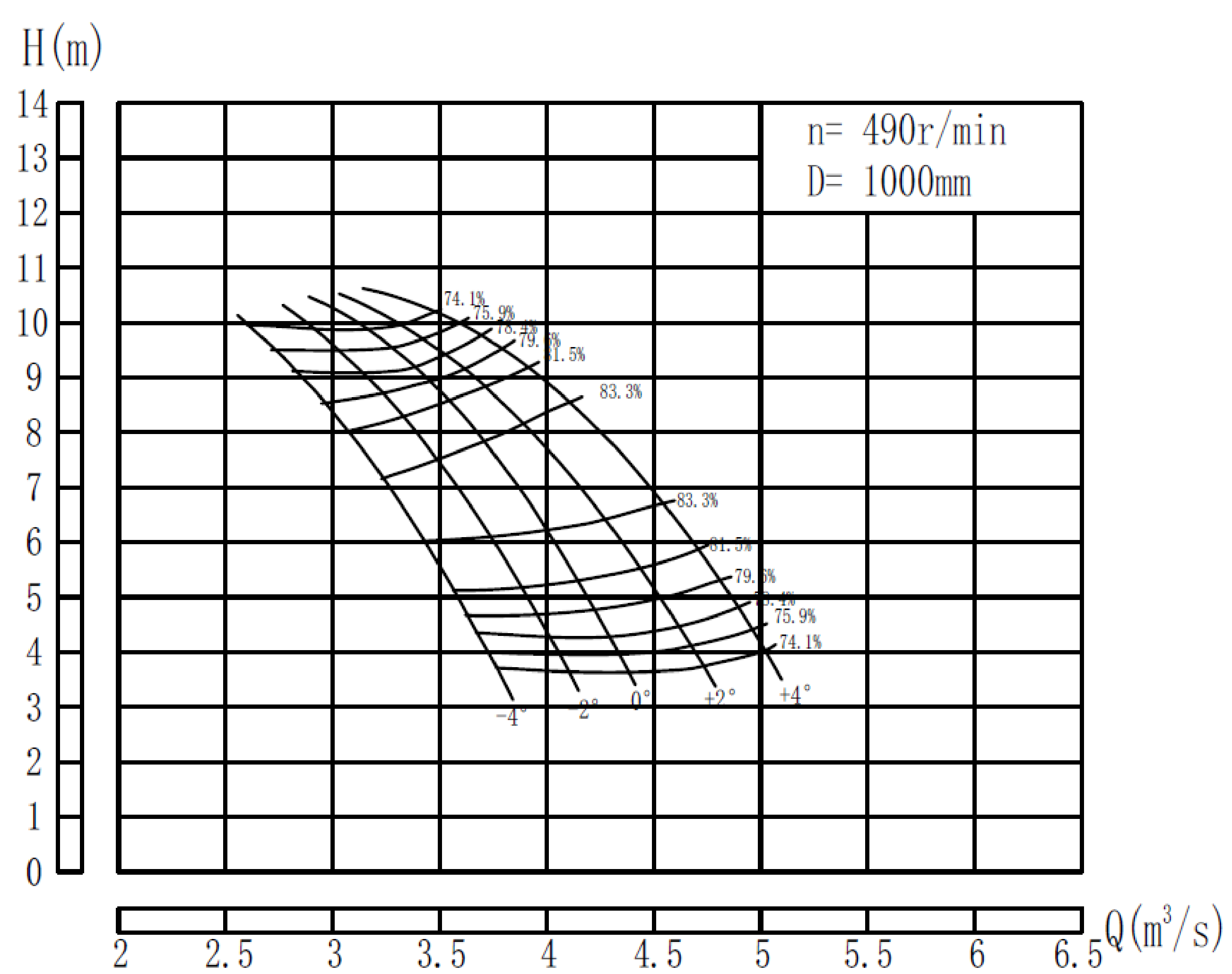
Performance Curve of VSP9400.1200/870



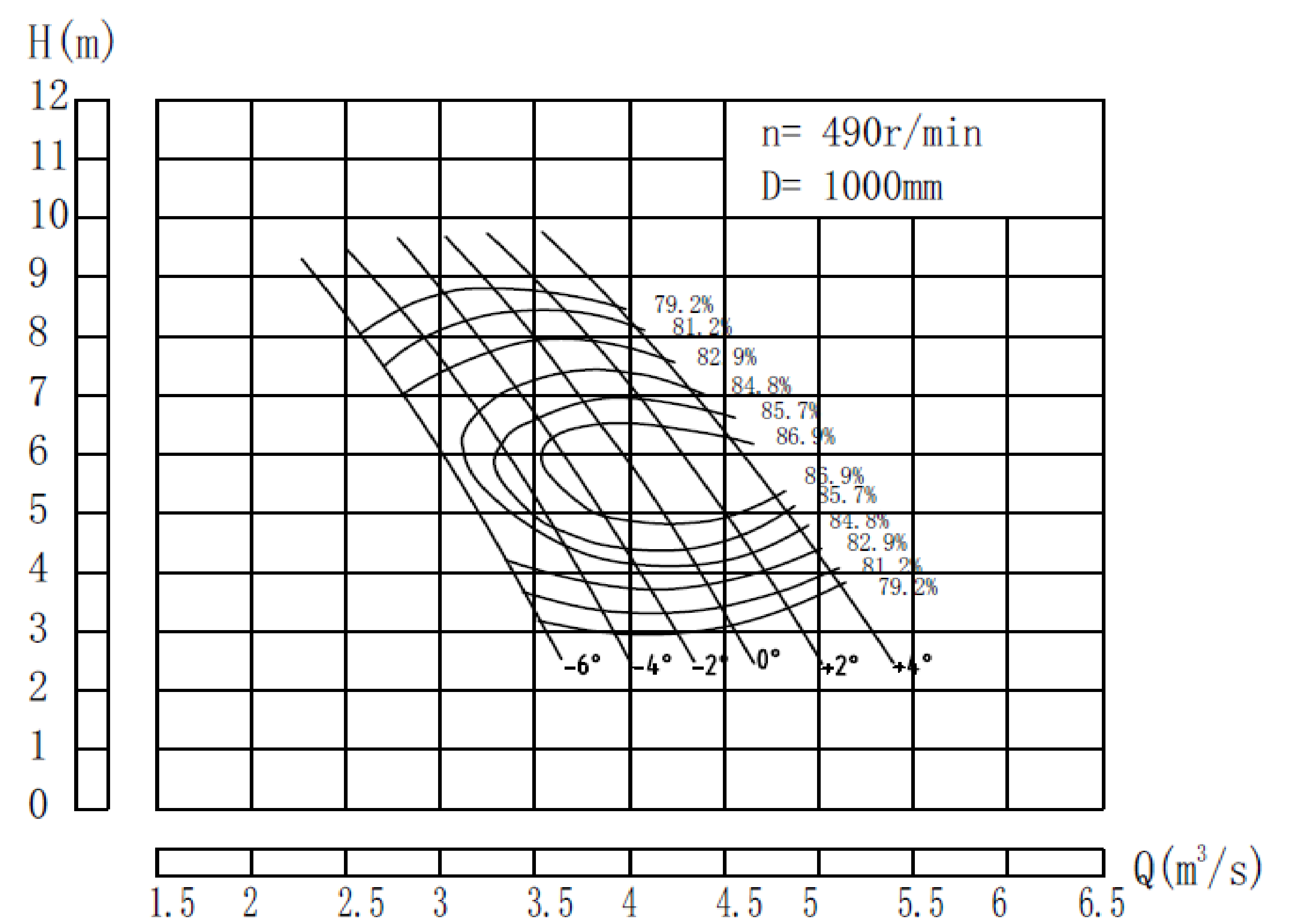
Performance Curve of VSP9400.1200/870



Performance Curve of VSP9450.1200/1000



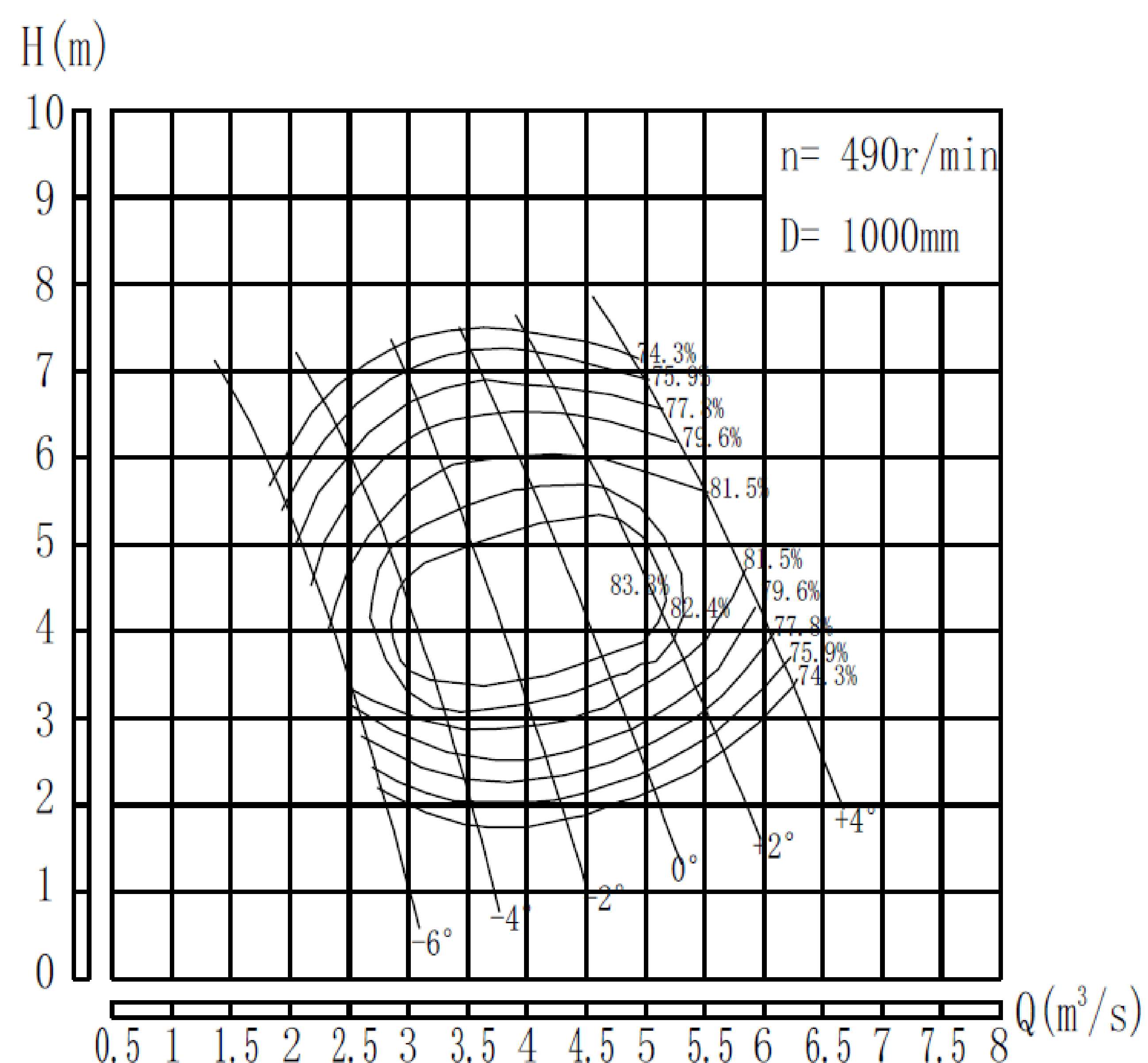
Performance Curve of VSP9400.1200/1000



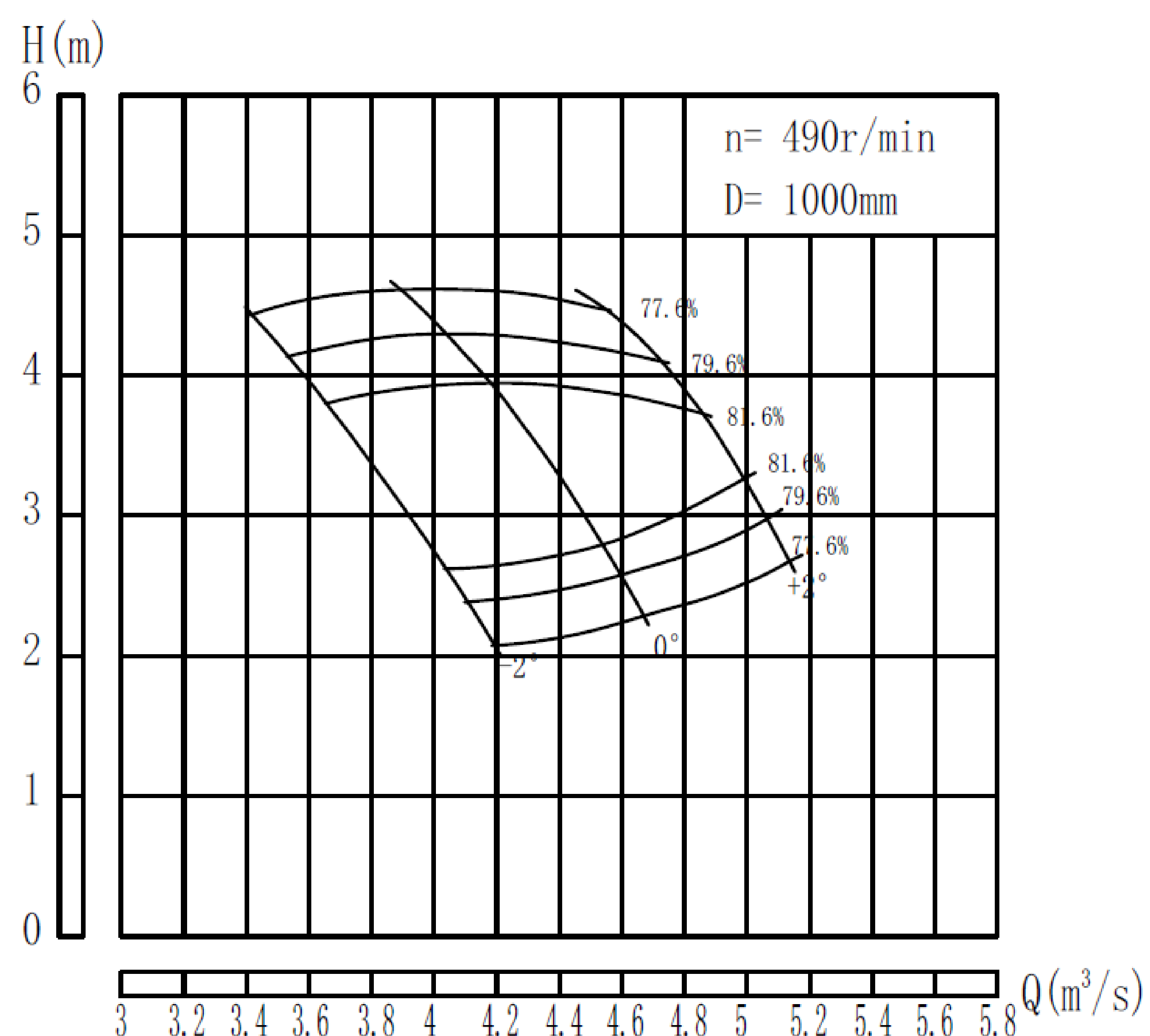
Performance Curve

Axial flow & Axial Mixed flow Overview curve

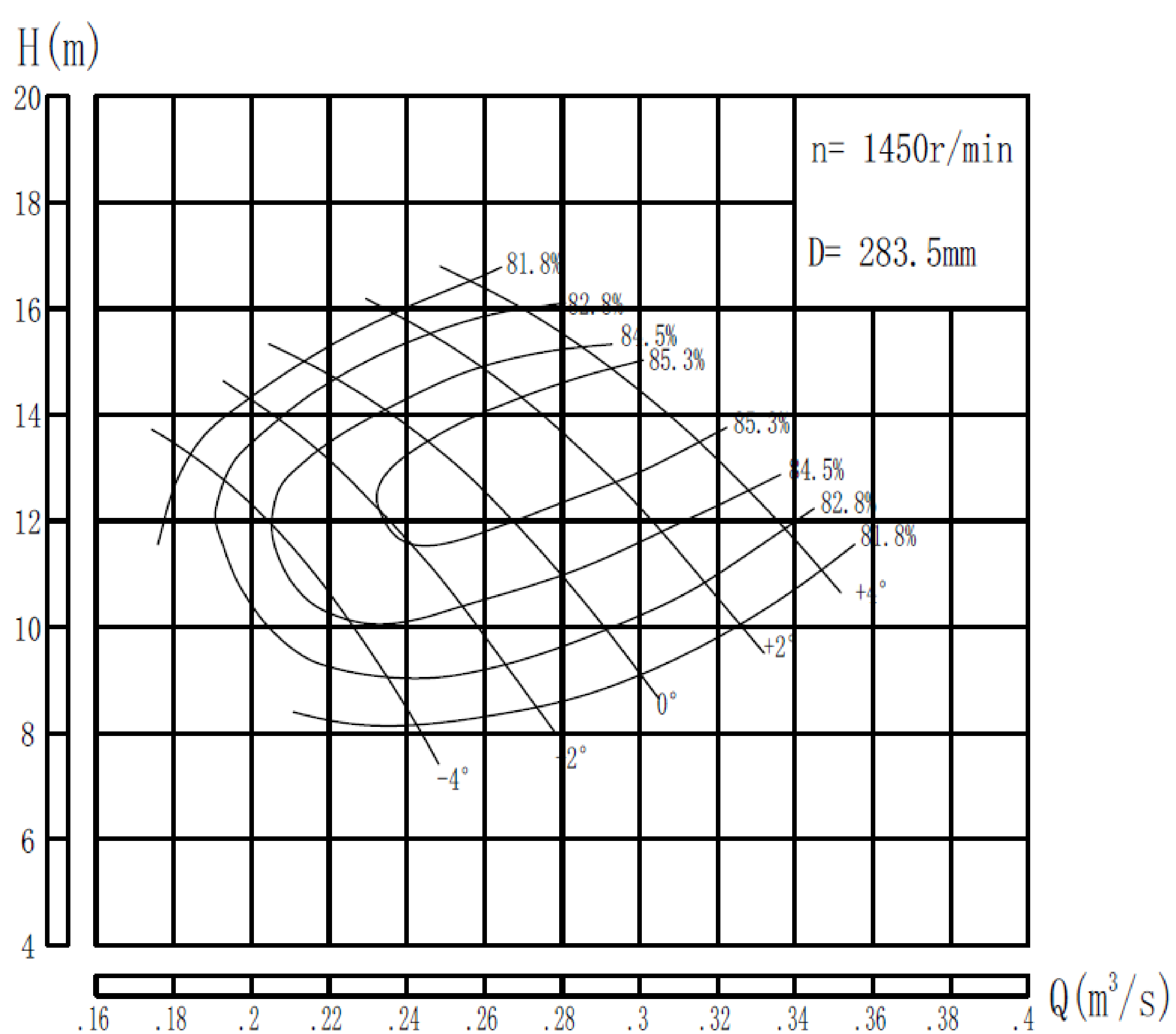
Performance Curve of VSP9500.1200/1000



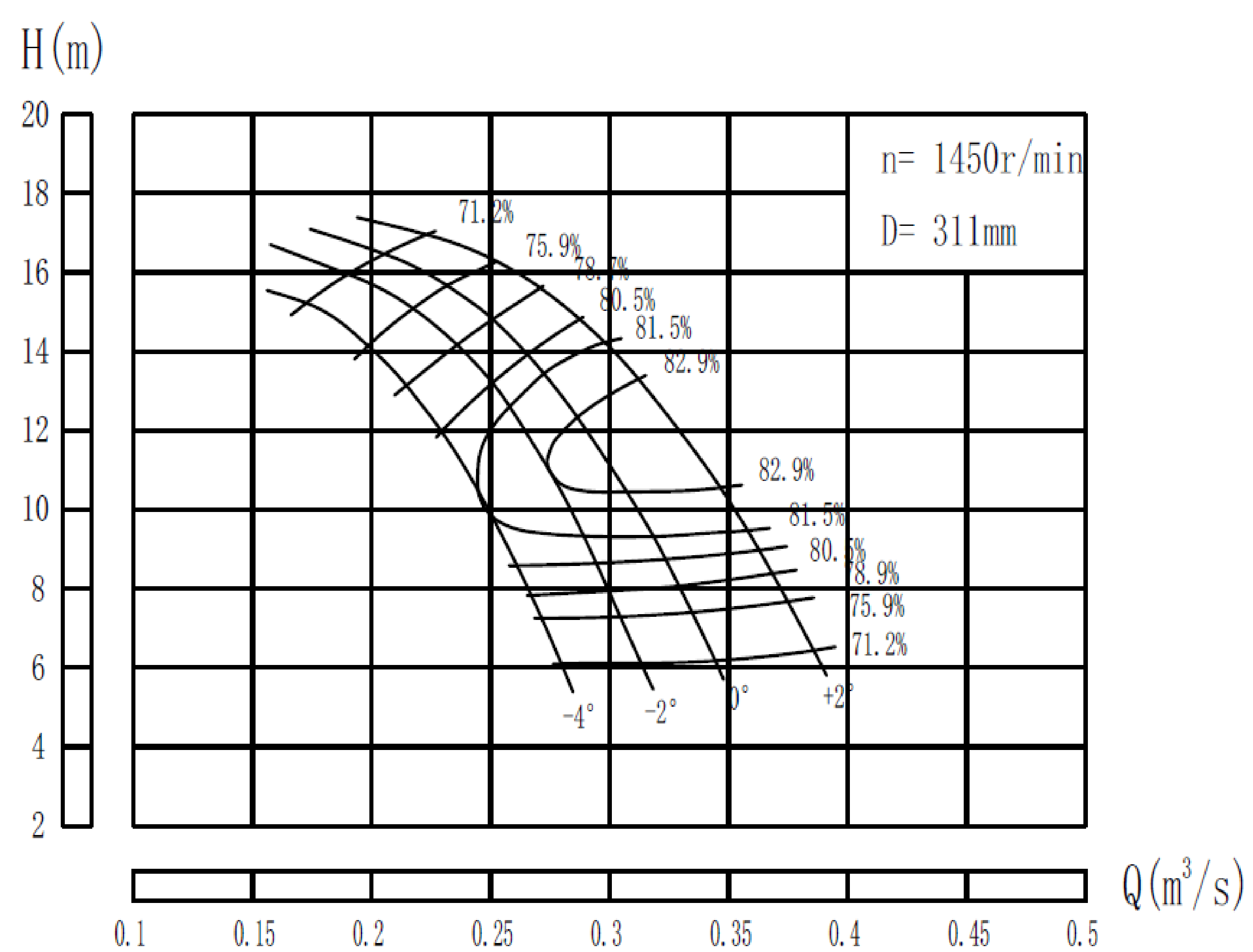
Performance Curve of VSP9280.1200/1000



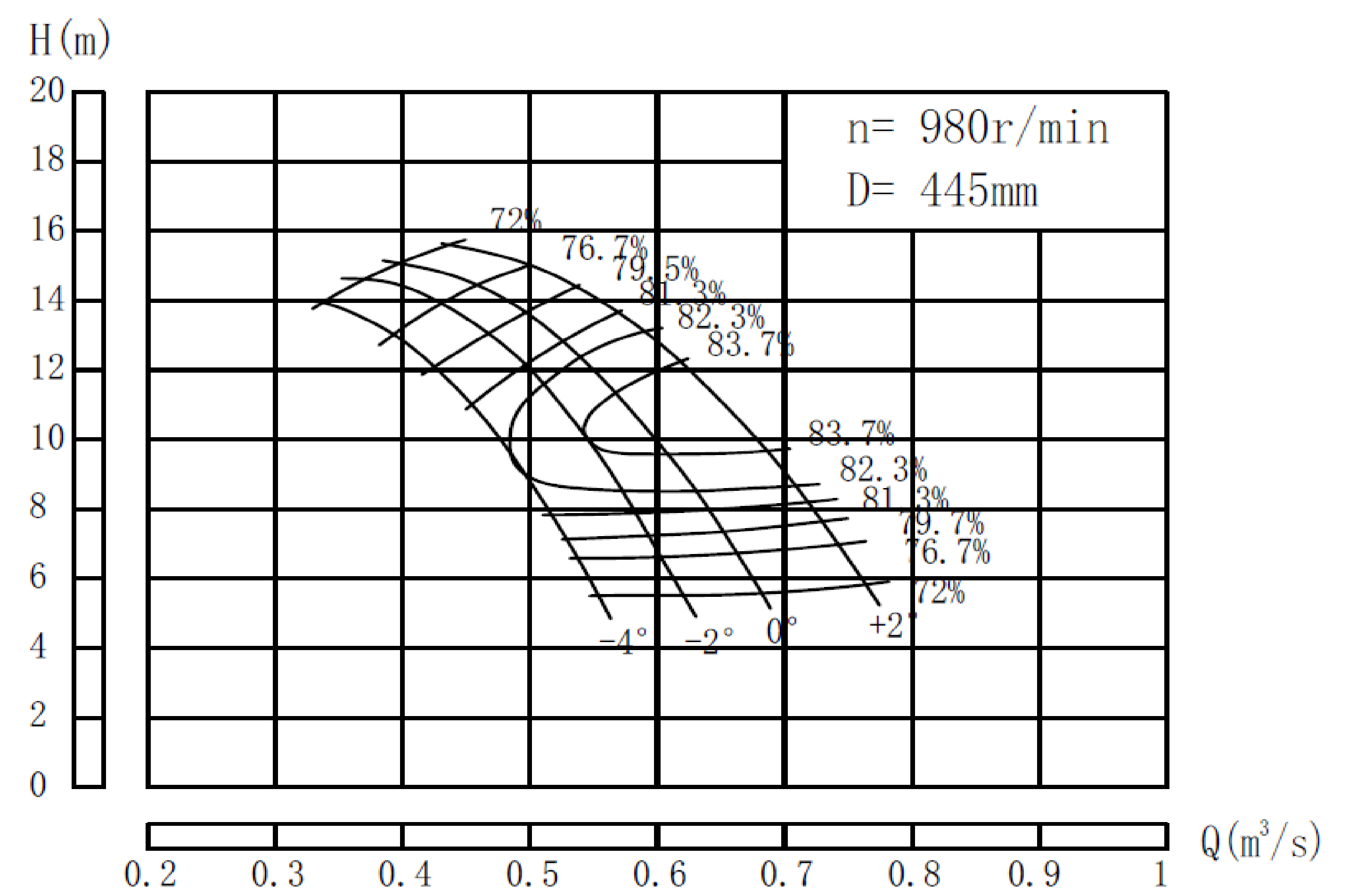
Performance Curve of VSPM9065.400/283



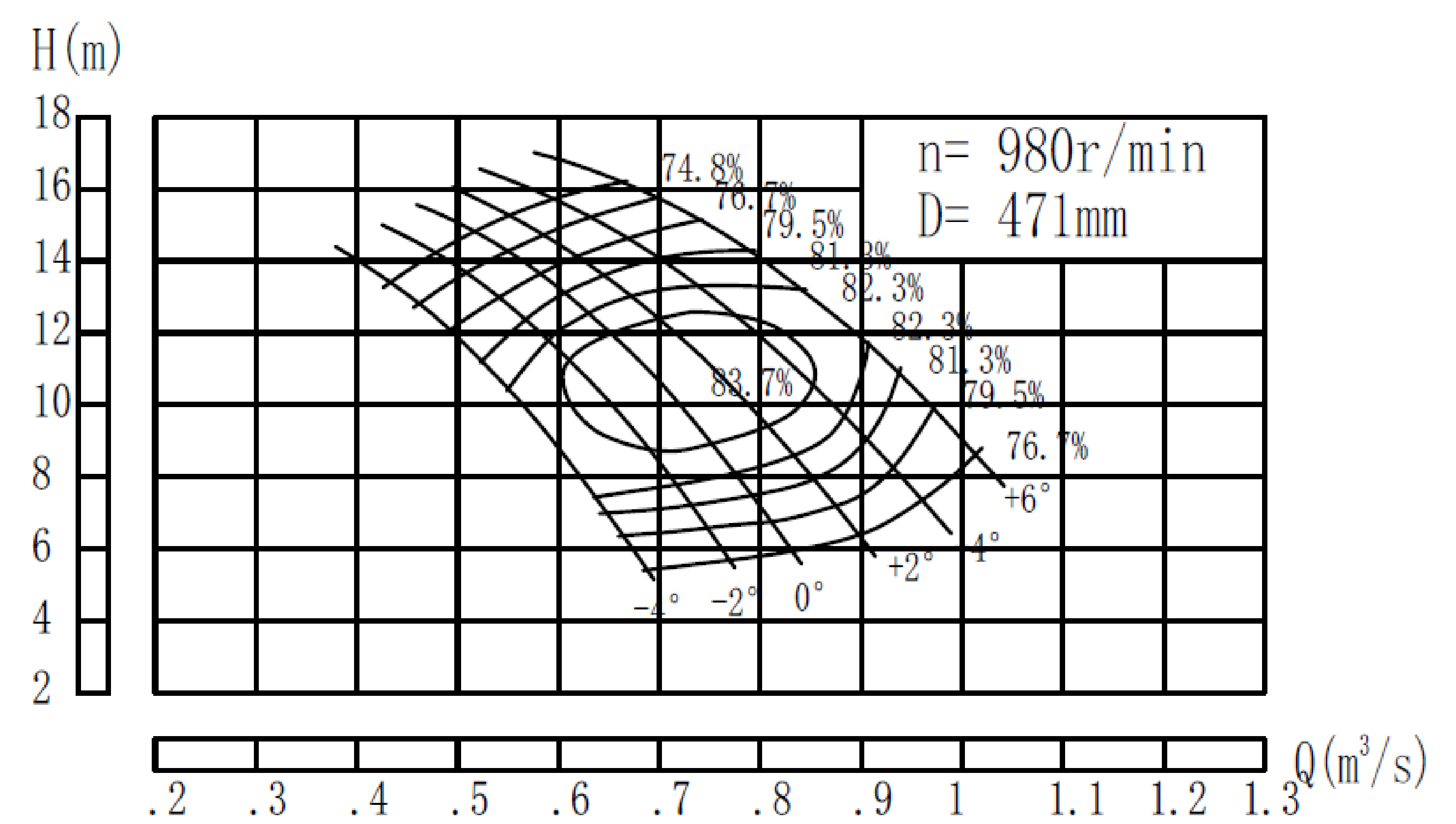
Performance Curve of VSPM9065.400/311



Performance Curve of VSPM9110.500/445



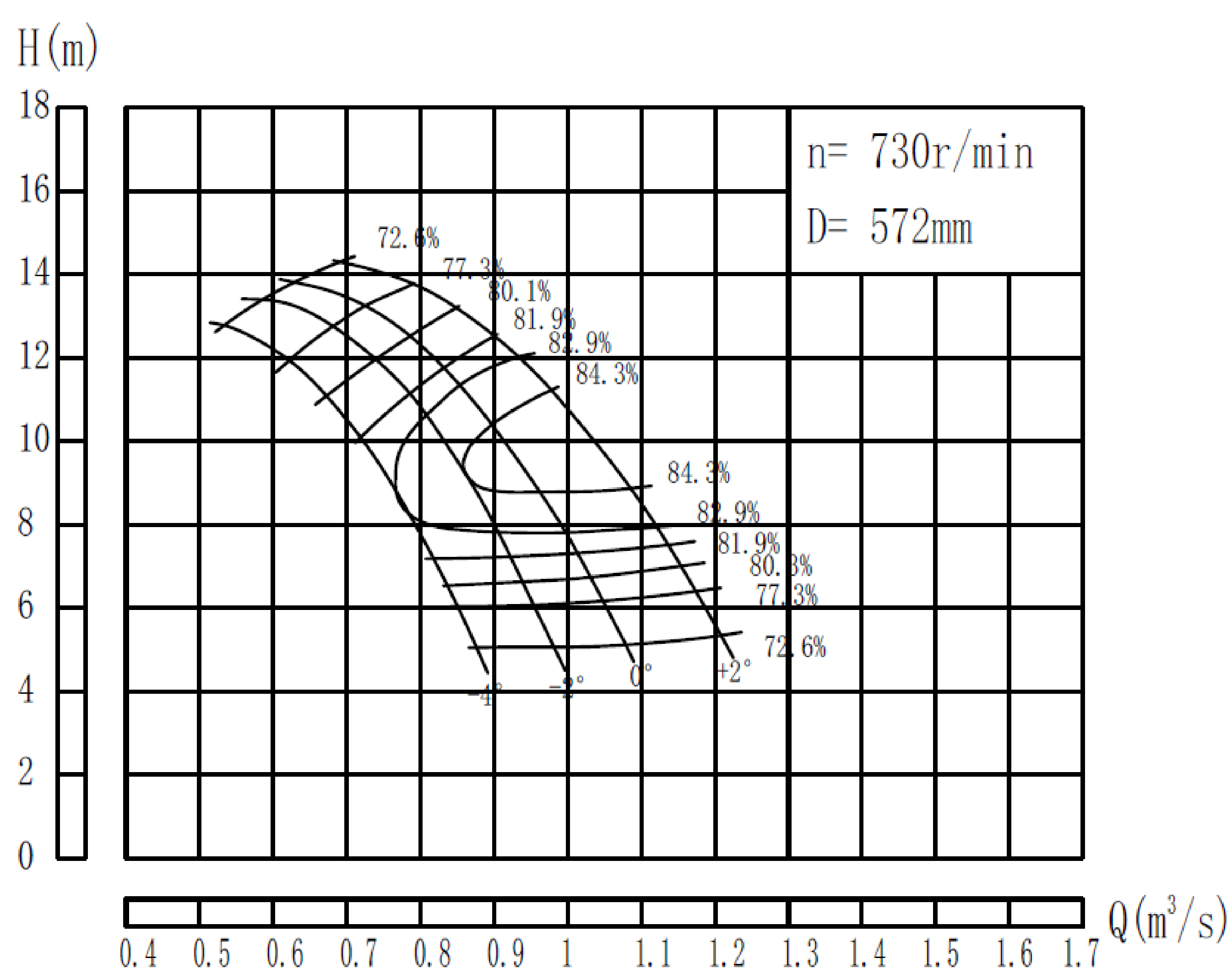
Performance Curve of VSPM9130.600/471



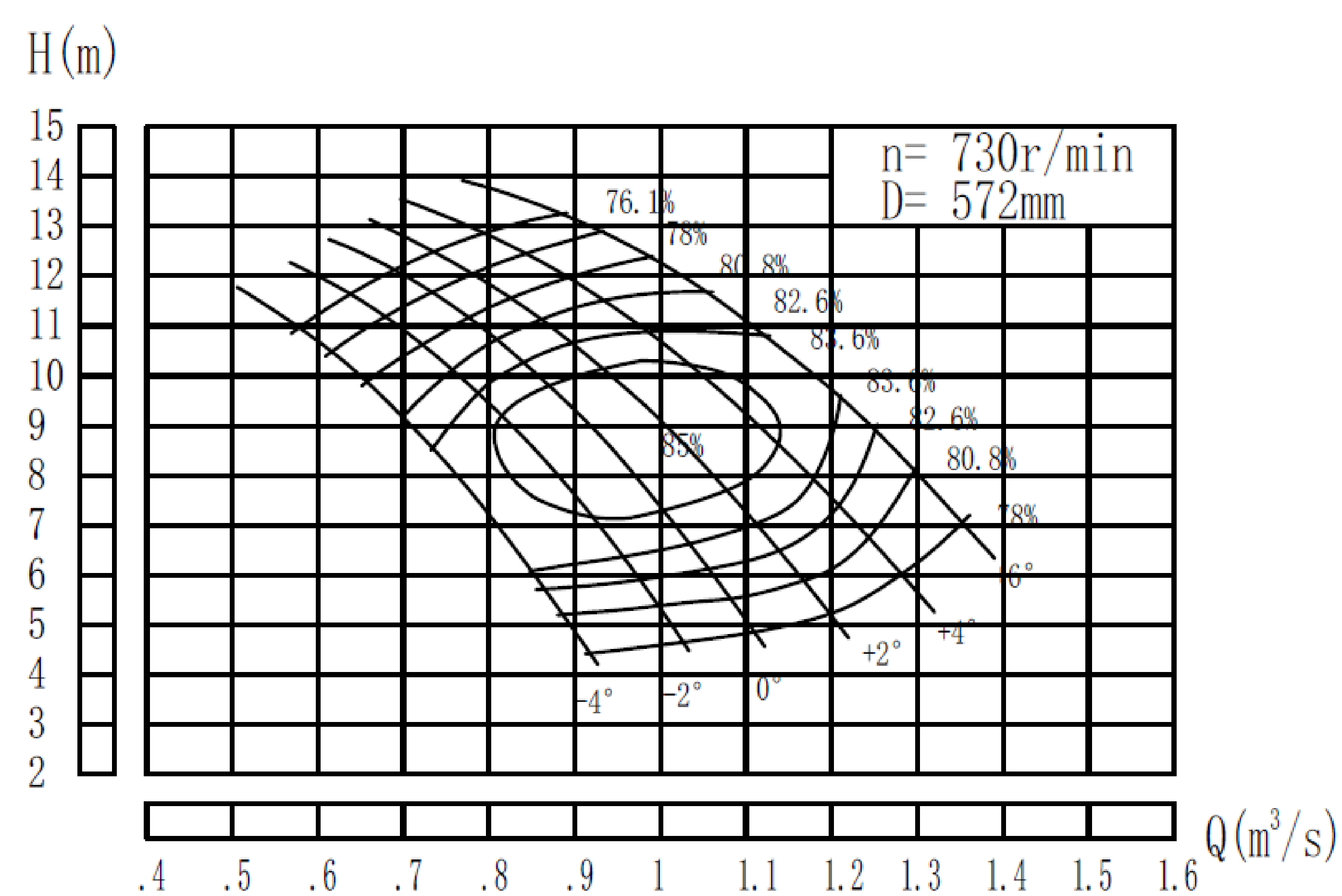
Performance Curve

Axial flow & Axial Mixed flow Overview curve

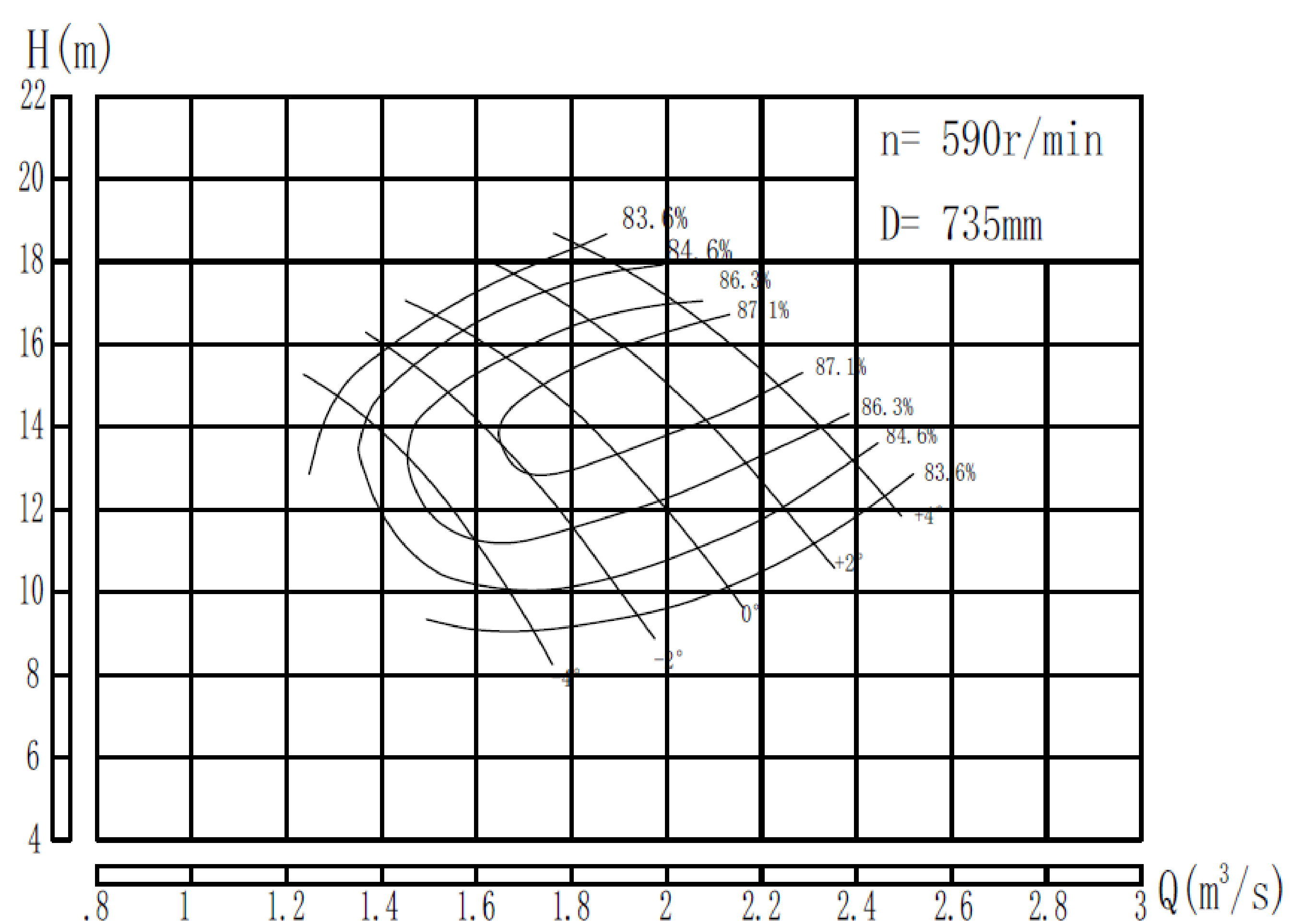
Performance Curve of VSPM9155.700/571



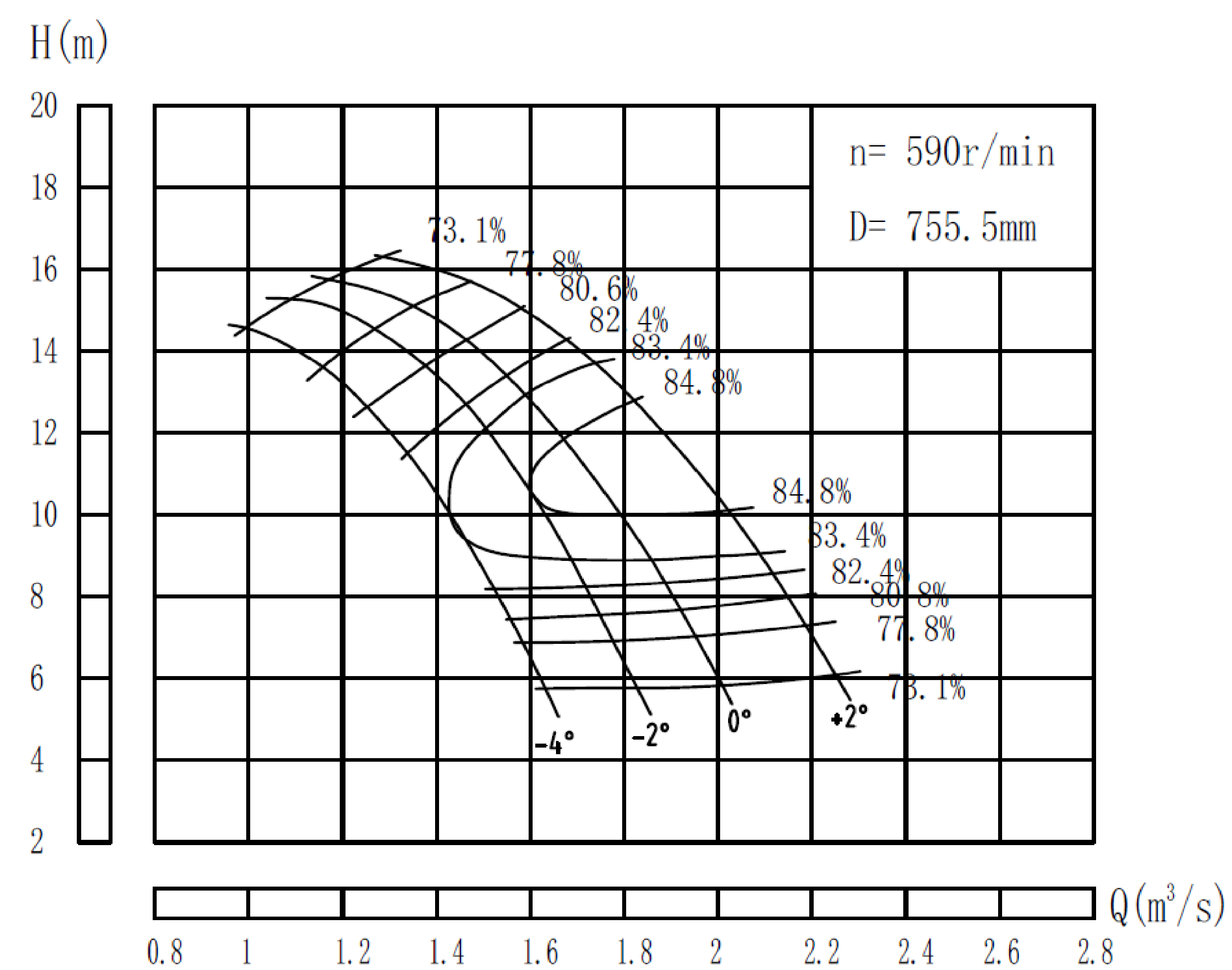
Performance Curve of VSPM9132.700/571



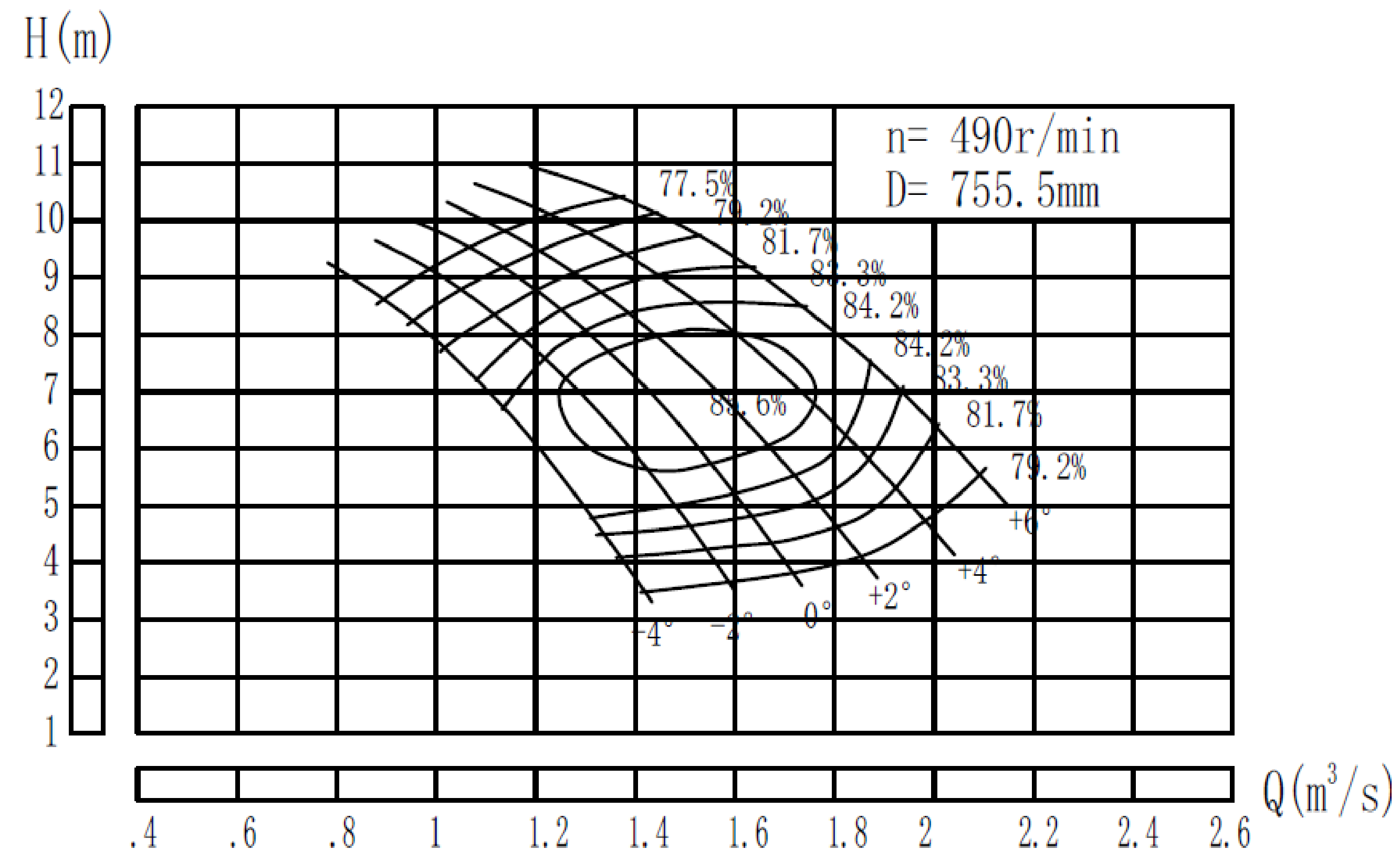
Performance Curve of VSPM9800.900/735



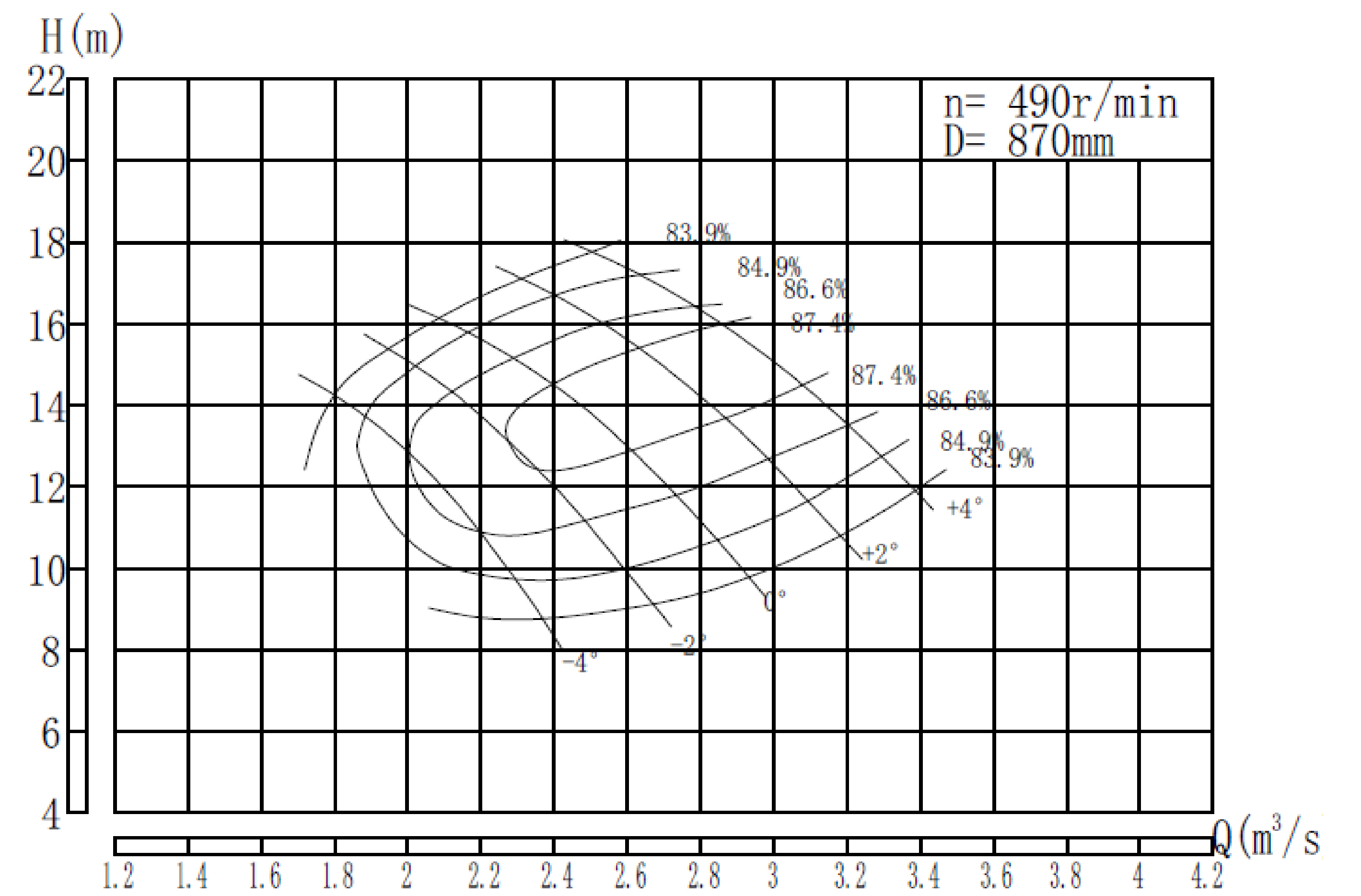
Performance Curve of VSPM9315.900/755



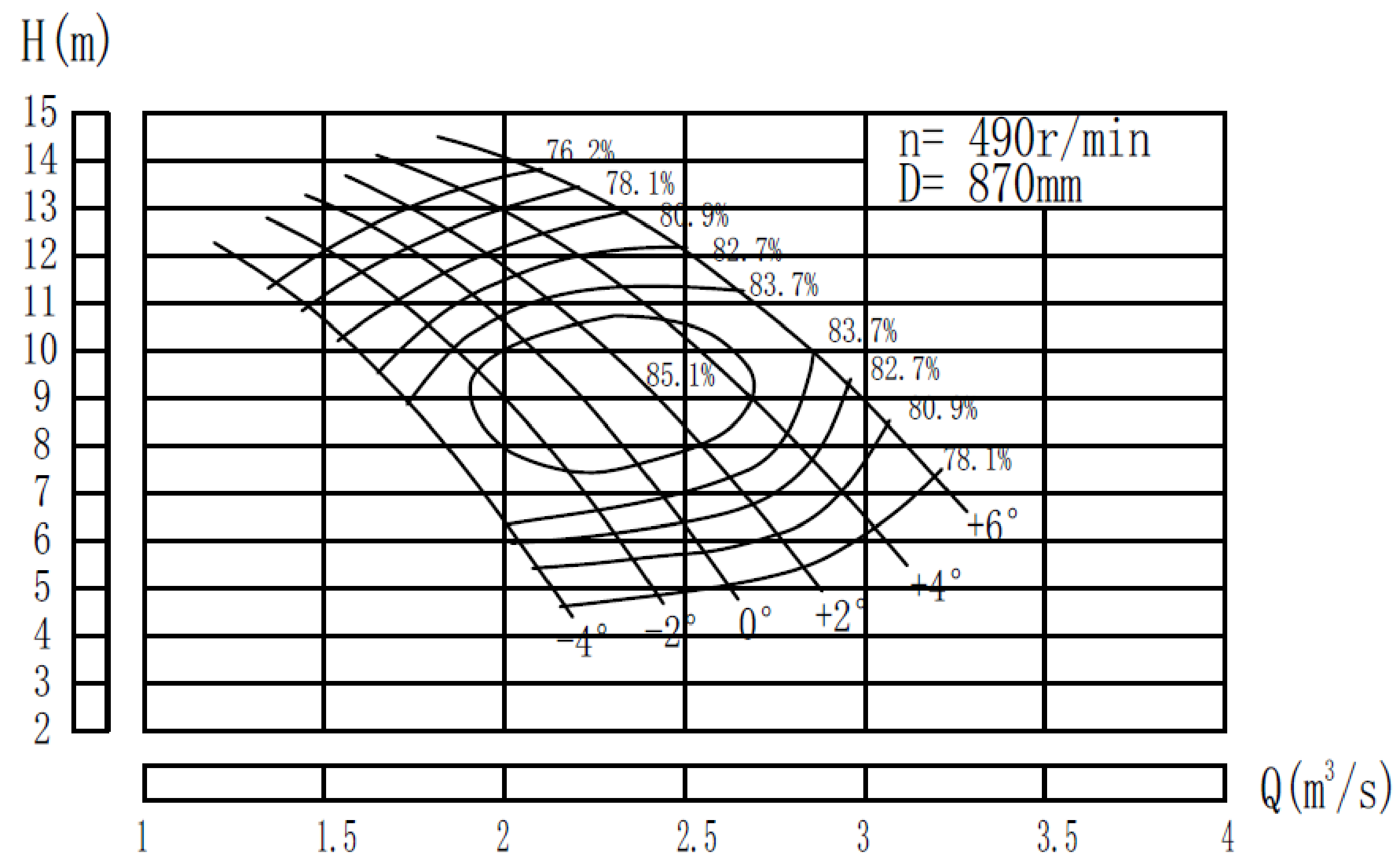
Performance Curve of VSPM9250.900/755



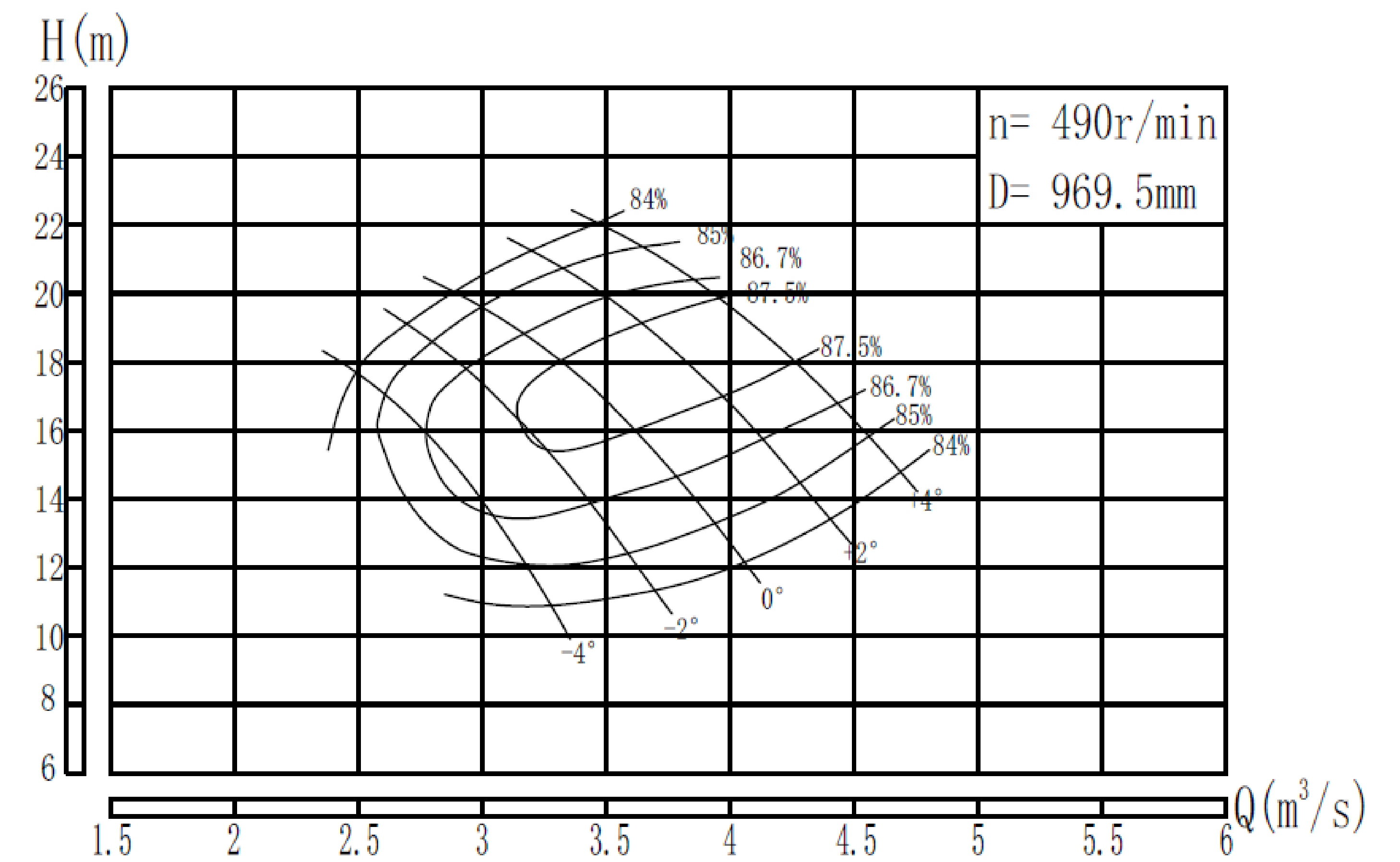
Performance Curve of VSPM9560.1000/870



Performance Curve of VSPM9375.1000/870



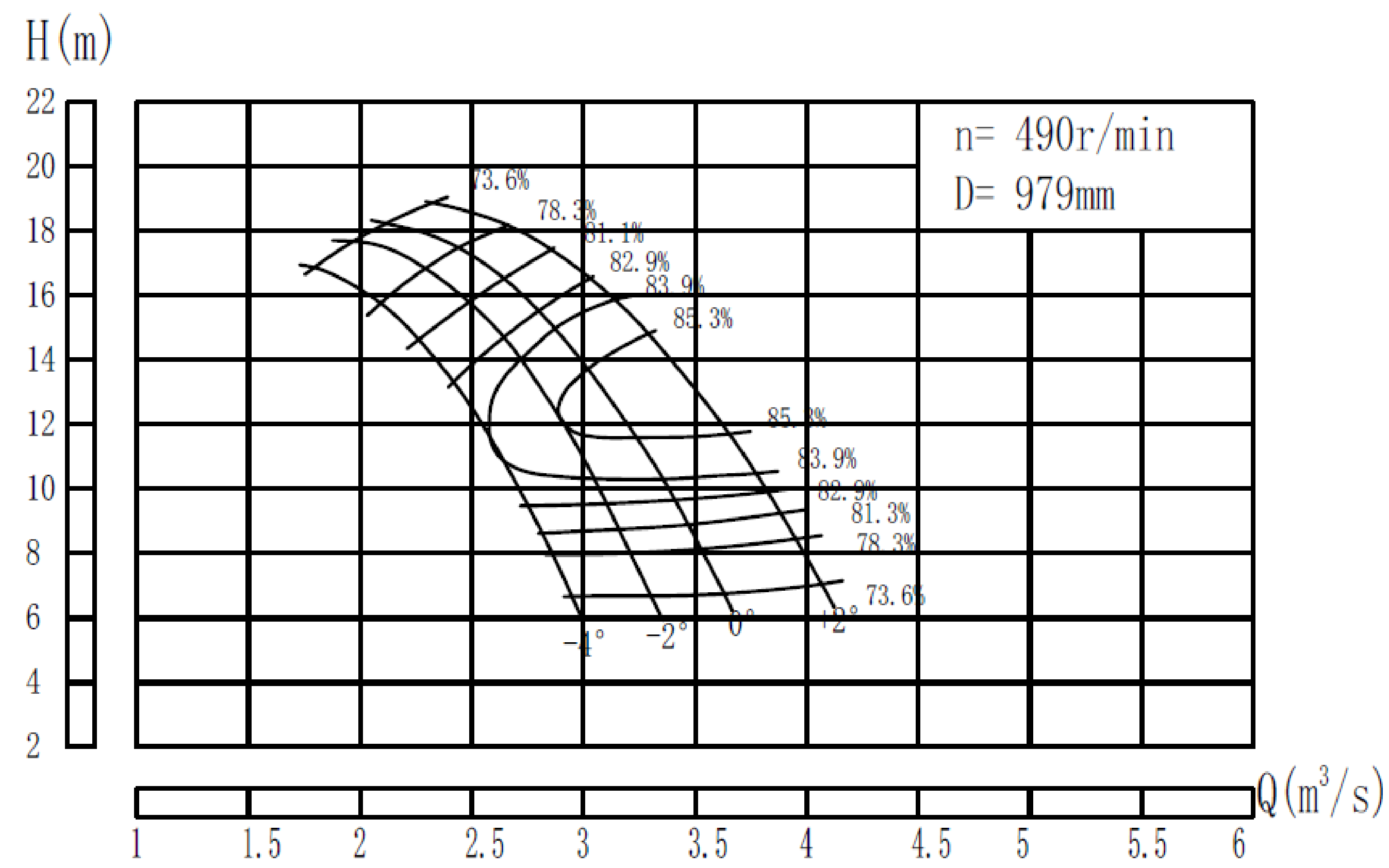
Performance Curve of VSPM9900.1200/969



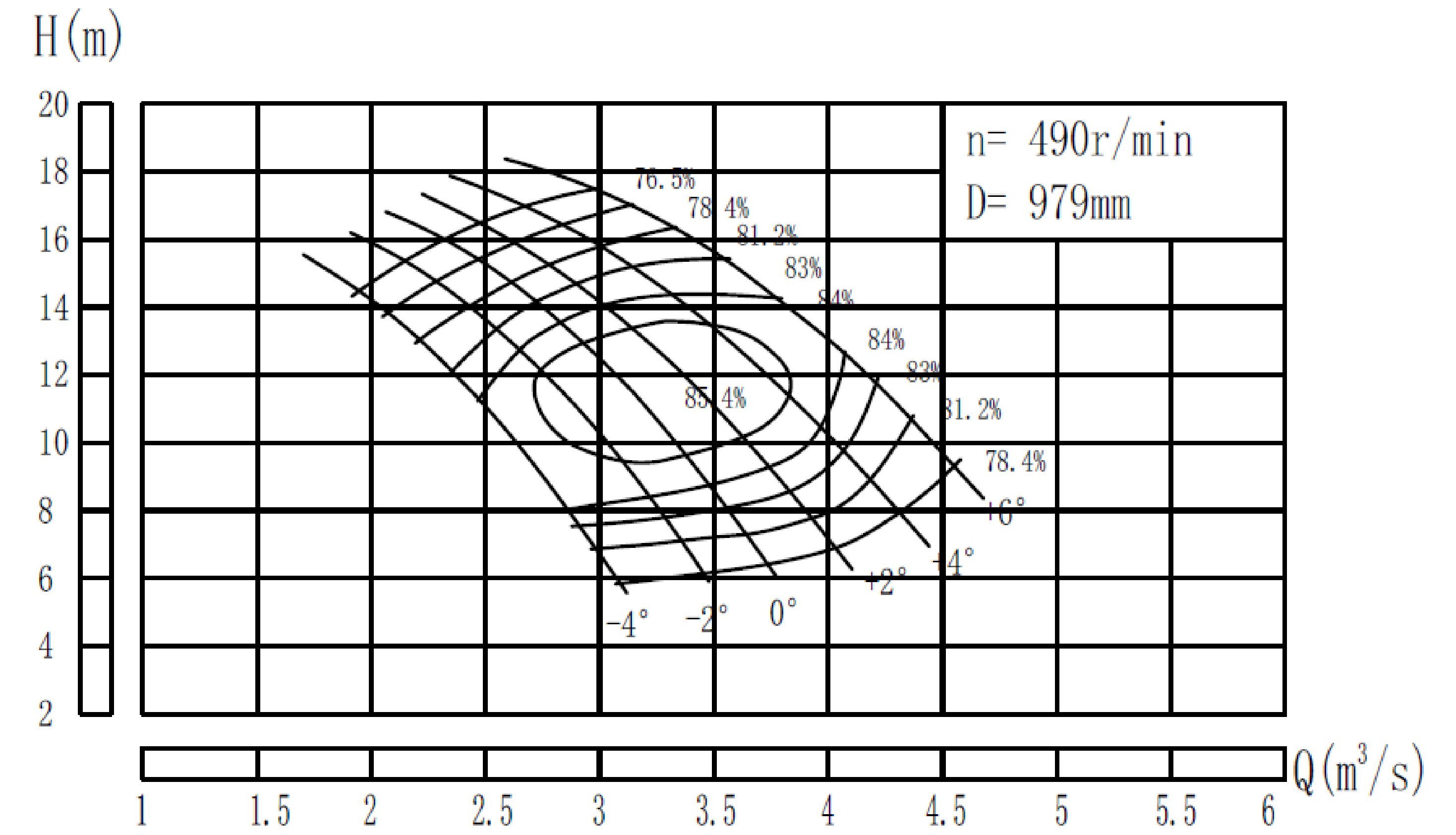
Performance Curve

Axial flow & Axial Mixed flow Overview curve

Performance Curve of VSPM9630.1200/978

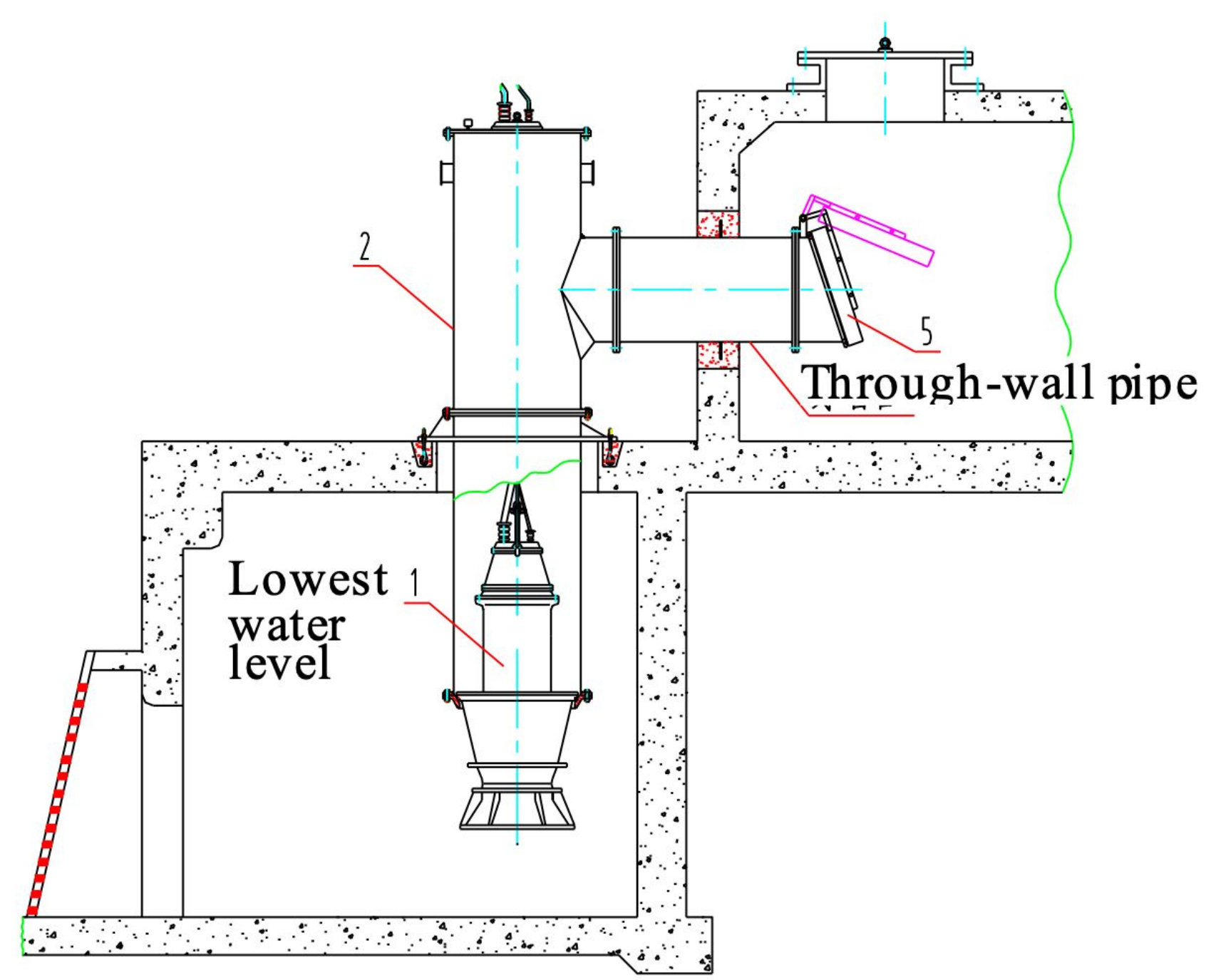


Performance Curve of VSPM9630.1200/979

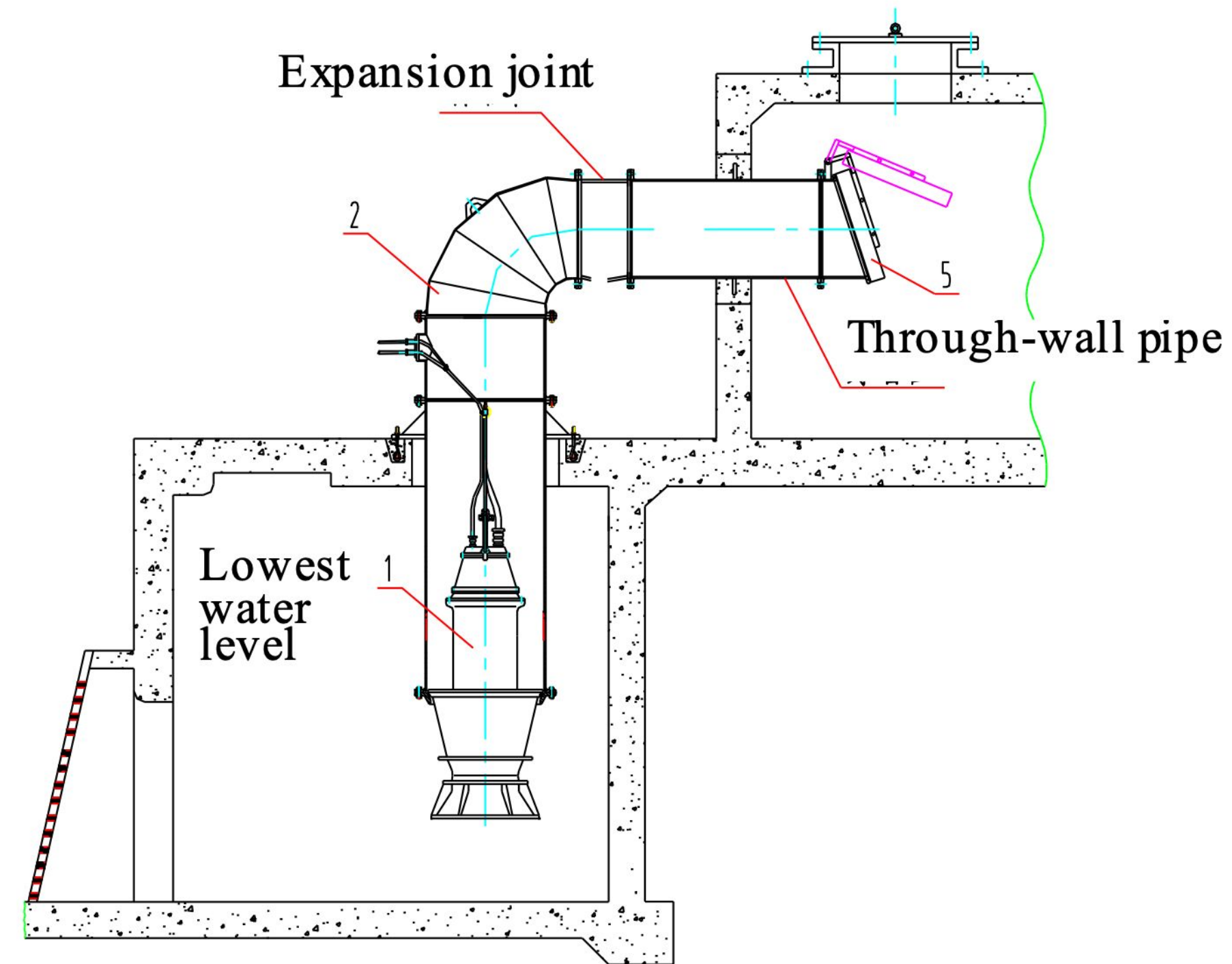


INSTALLATION TYPES

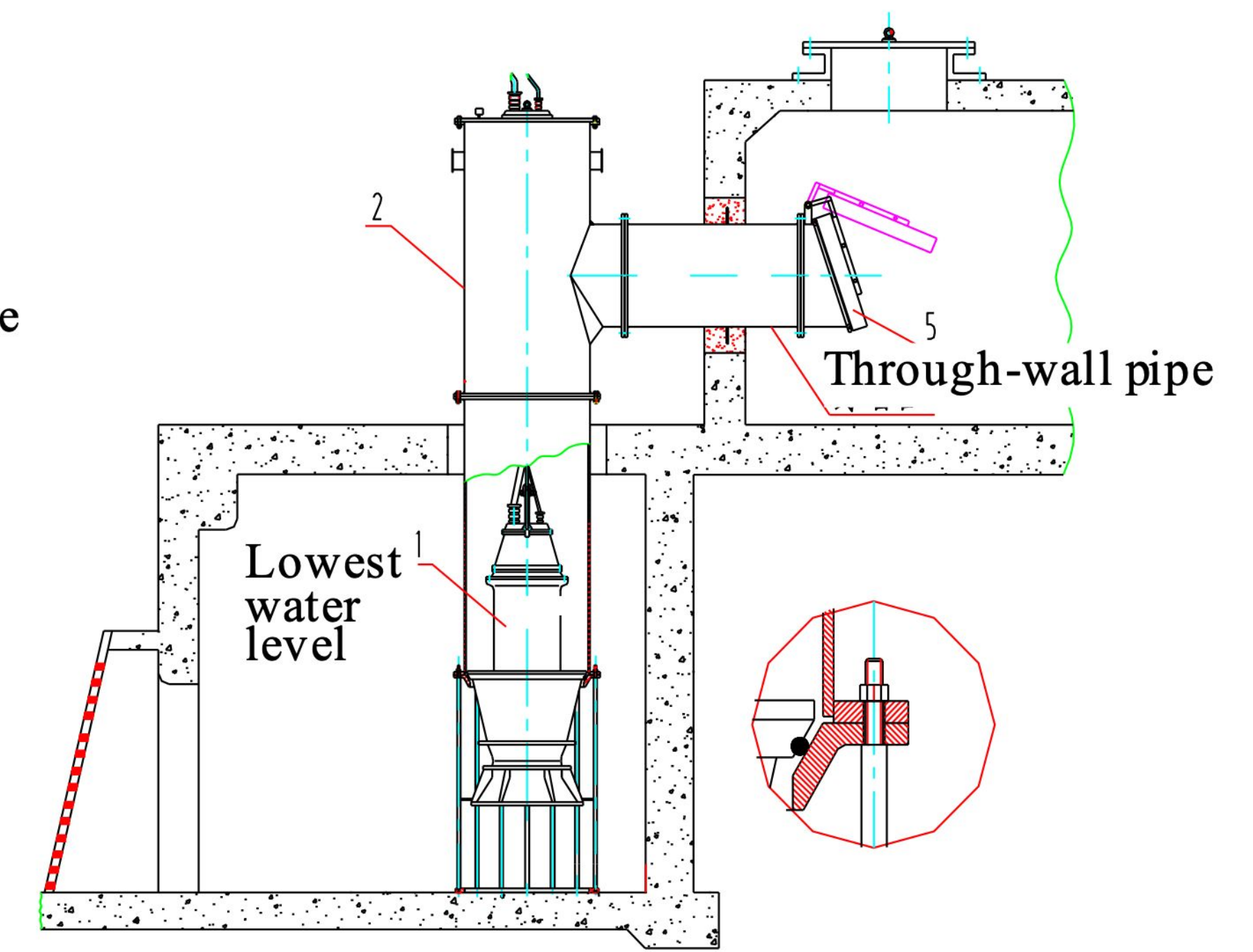
Structure Installation for Electric Submersible Pumps



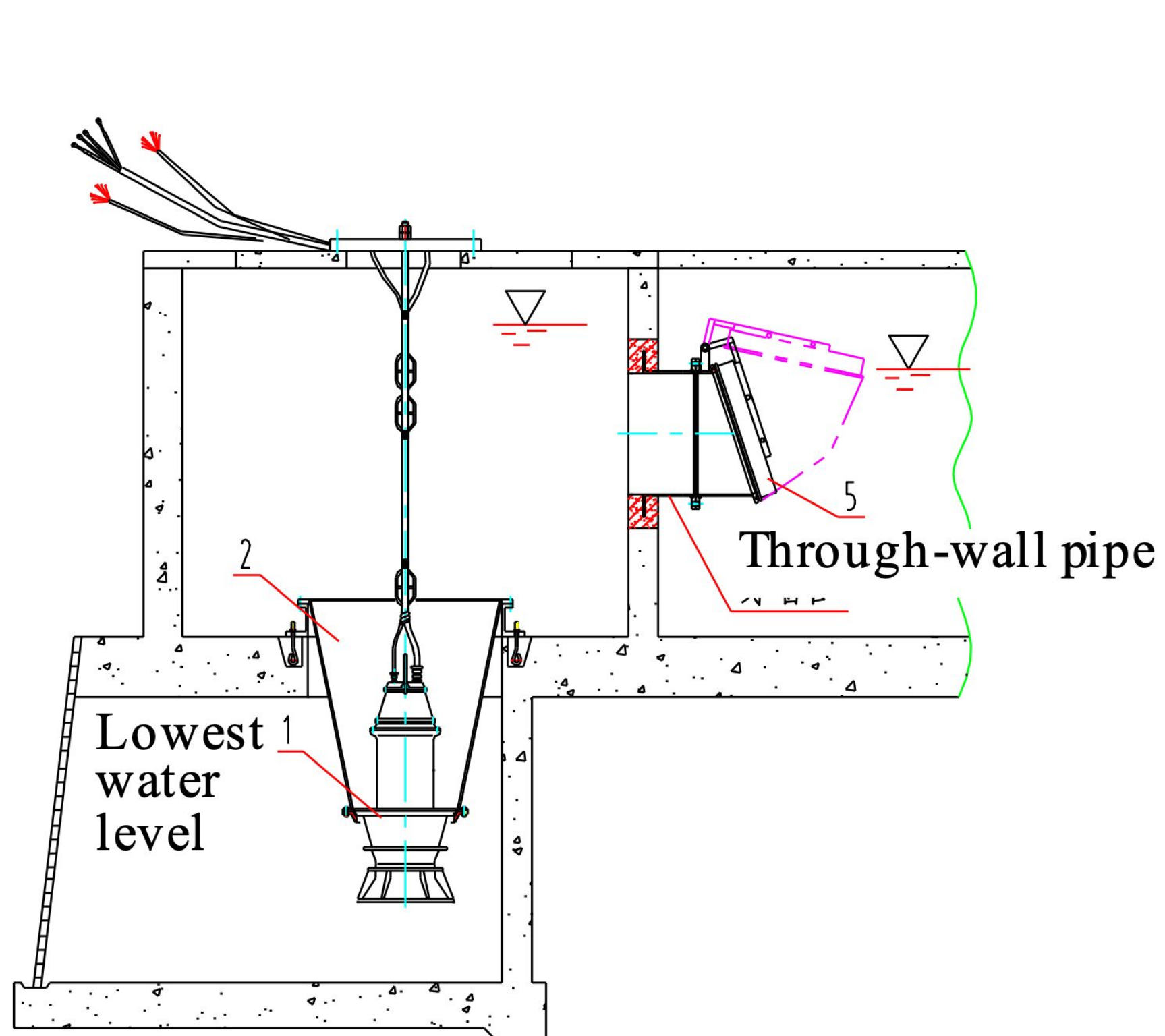
Shaft installation form (GT)



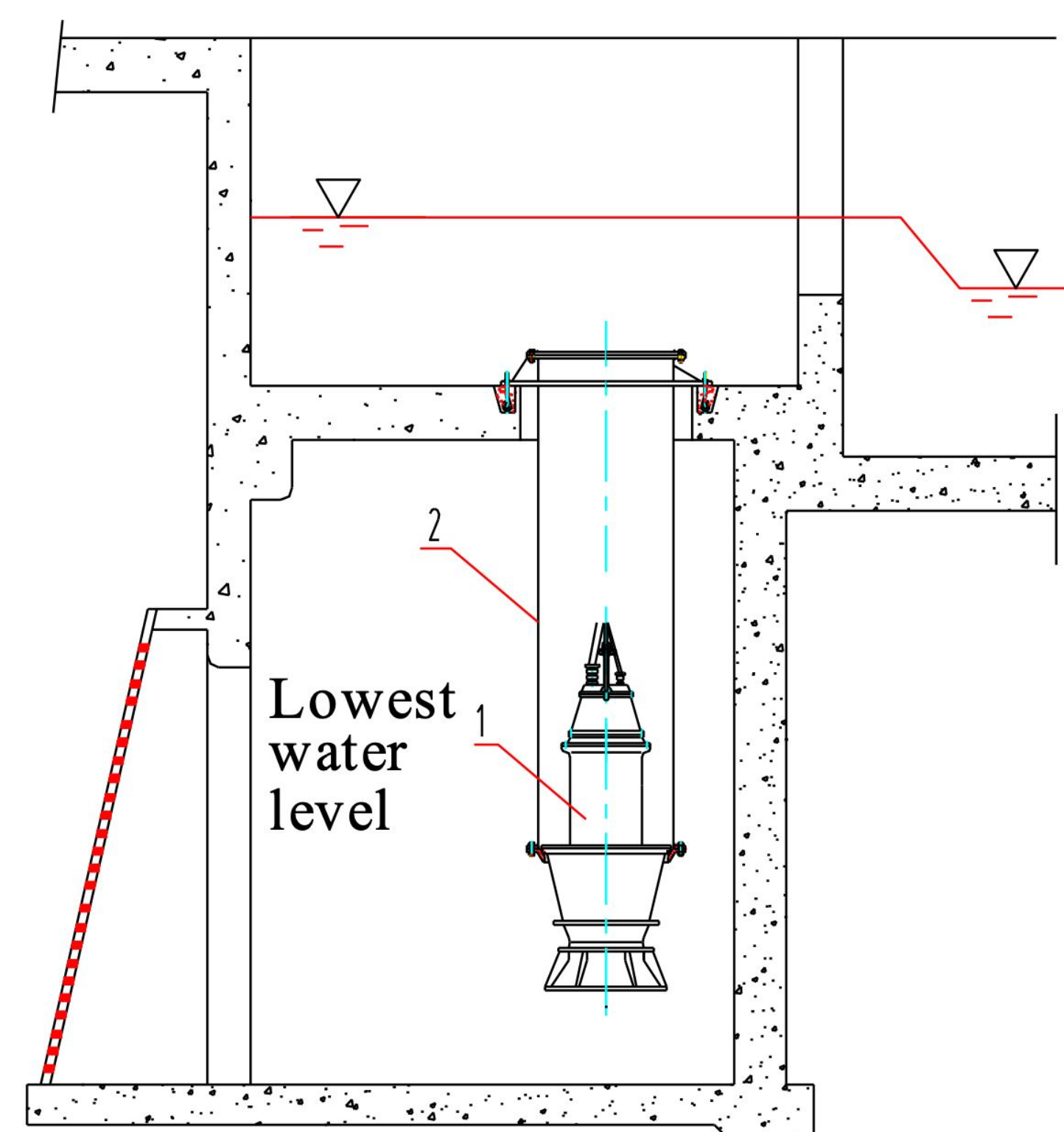
Shaft elbow installation form (GTW)



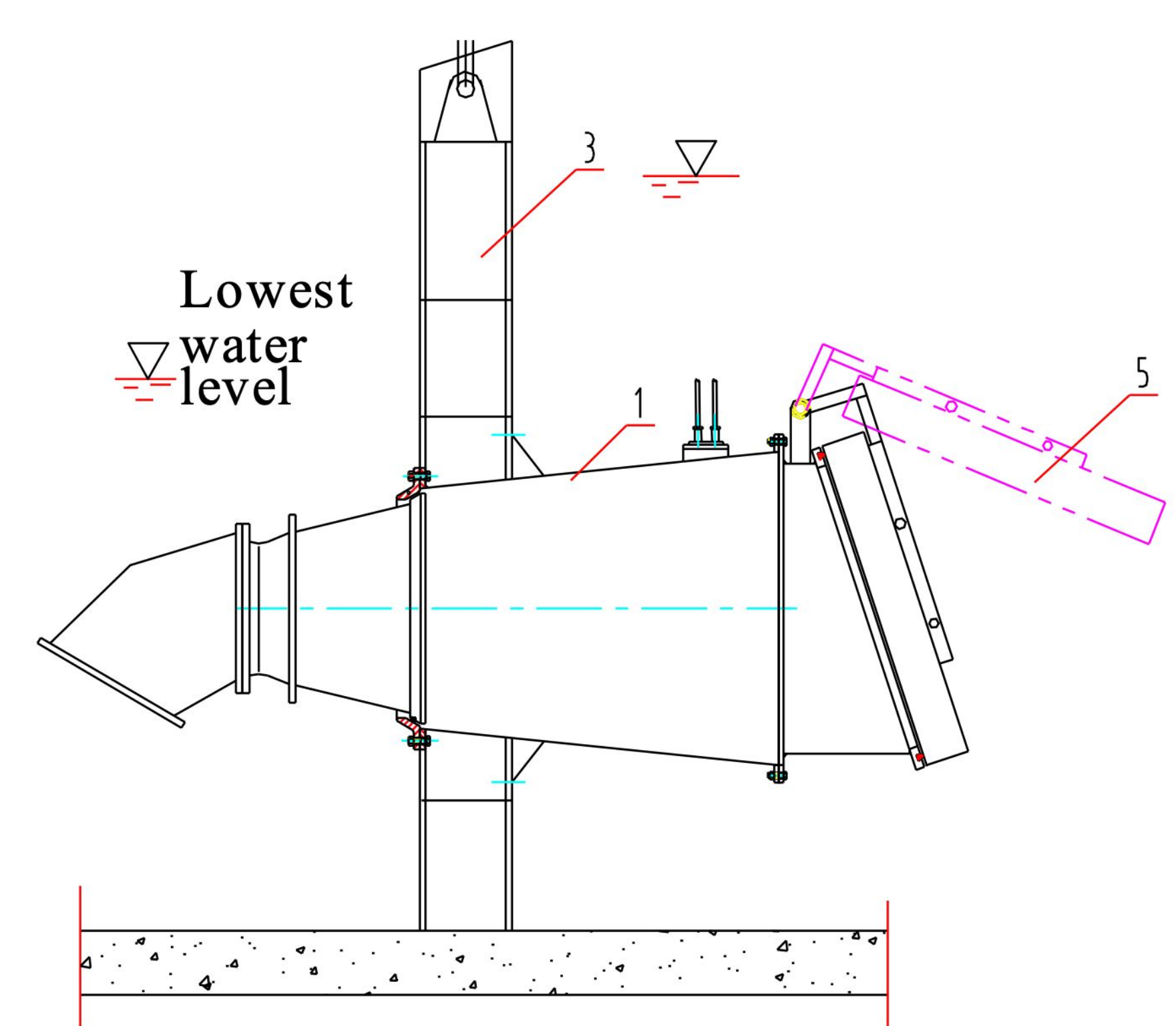
Shaft floor installation form (GD)



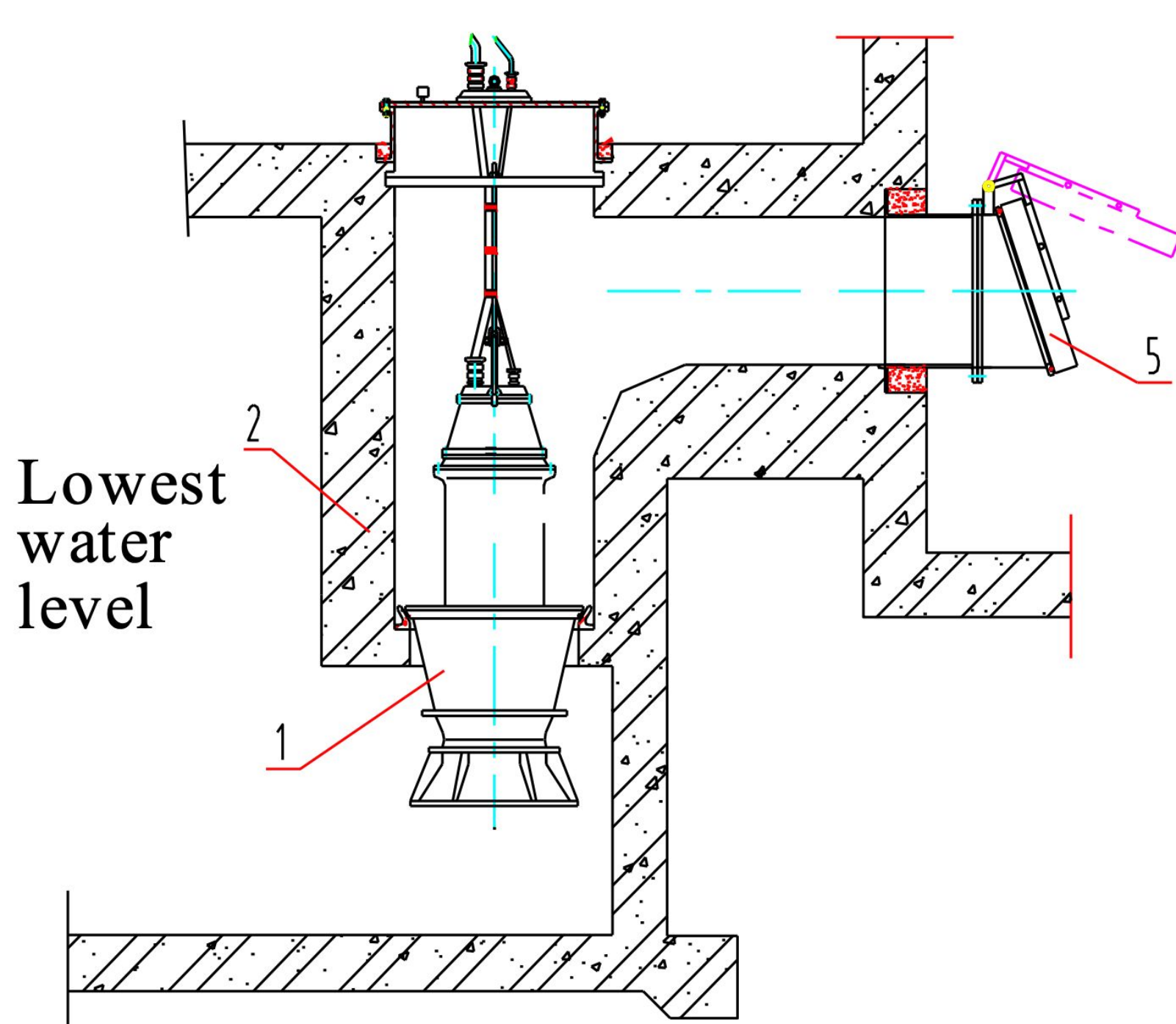
An open installation form (GK) used in installation of low-head pumps



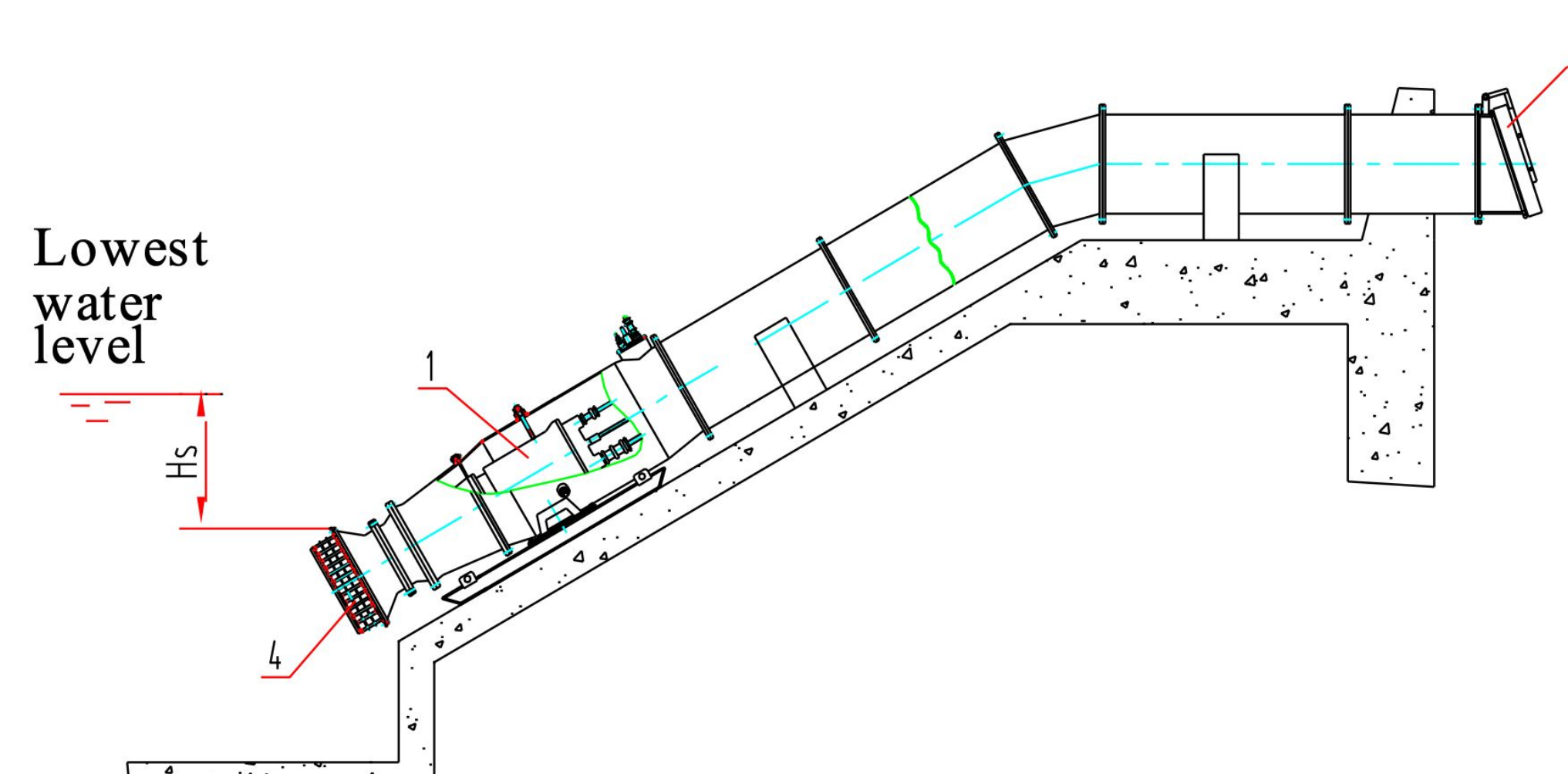
Another open installation form (GK)



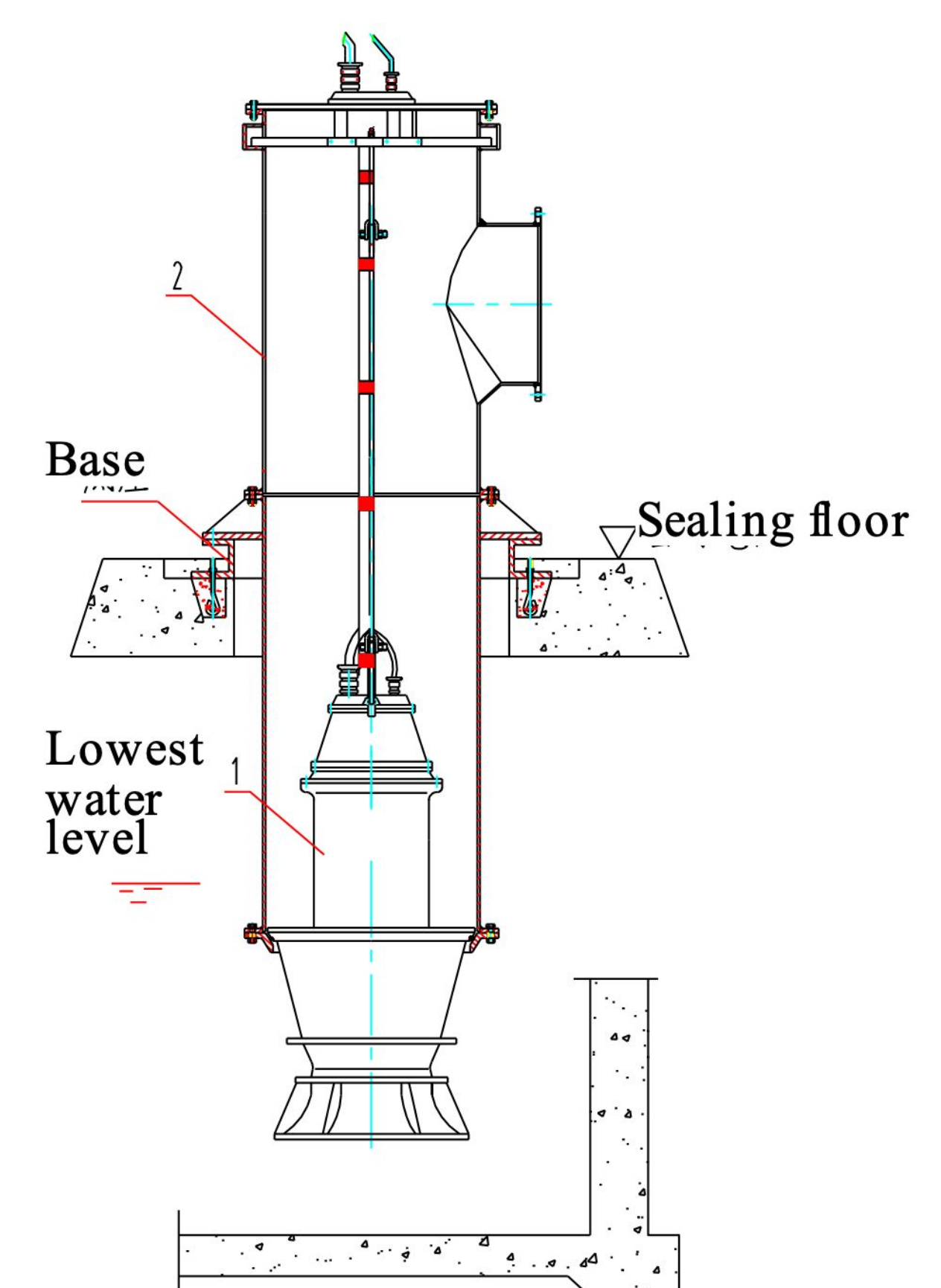
installation on gates (GZ)



Cement shaft installation form (SGT)



Inclined installation form (GW)



Shaft elbow installation form (GTW)

1. Electric submersible pump
2. Shaft
3. Gate
4. Filter screen
5. Flap valve

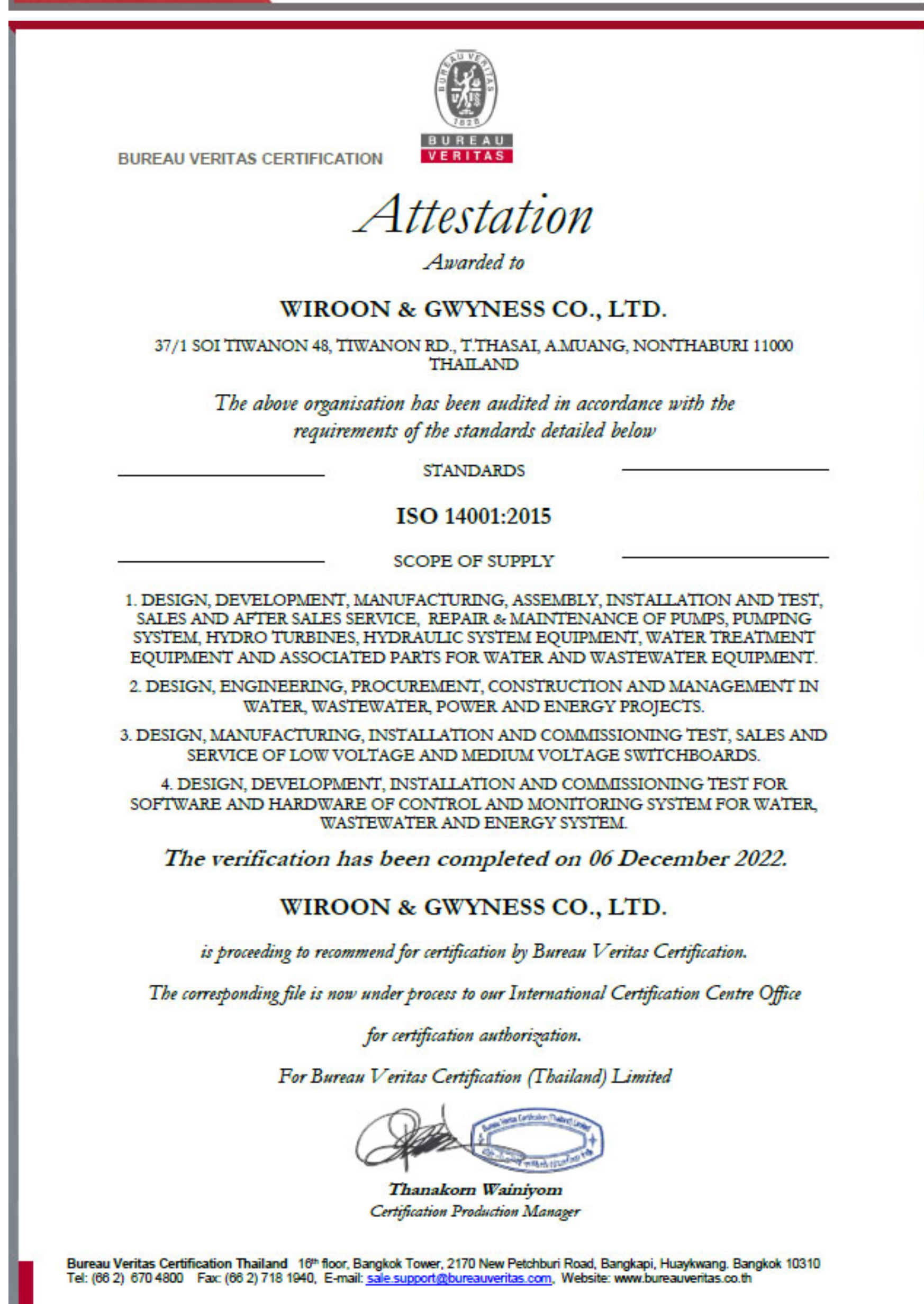
CERTIFICATION



ISO 9001 : 2015

Bureau Veritas Certify that the Management system has been audited and found to be in accordance with the requirement of the Management system standards detailed below

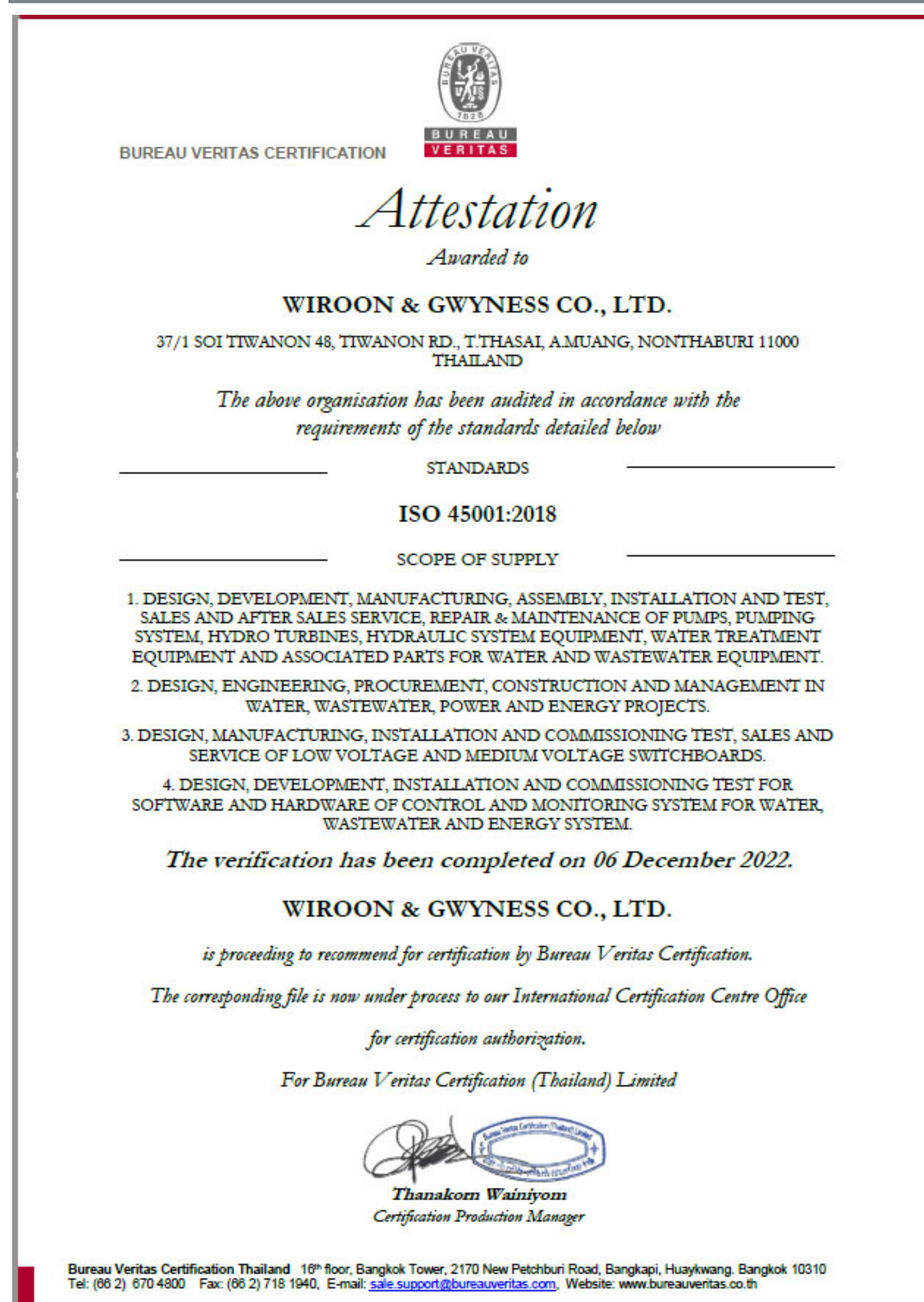
DESIGN, DEVELOPMENT, MANUFACTURING, ASSEMBLY, INSTALLATION AND TEST, SALES AND AFTER SALES SERVICE, REPAIR & MAINTENANCE OF PUMPS, PUMPING SYSTEM, HYDRO TURBINE, HYDRAULIC SYSTEM EQUIPMENT, WATER TREATMENT EQUIPMENT AND ASSOCIATED PARTS FOR WATER AND WASTEWATER EQUIPMENT.



ISO 14001 : 2015

Bureau Veritas Certify that the Management system has been audited and found to be in accordance with the requirement of the Management system standards detailed below

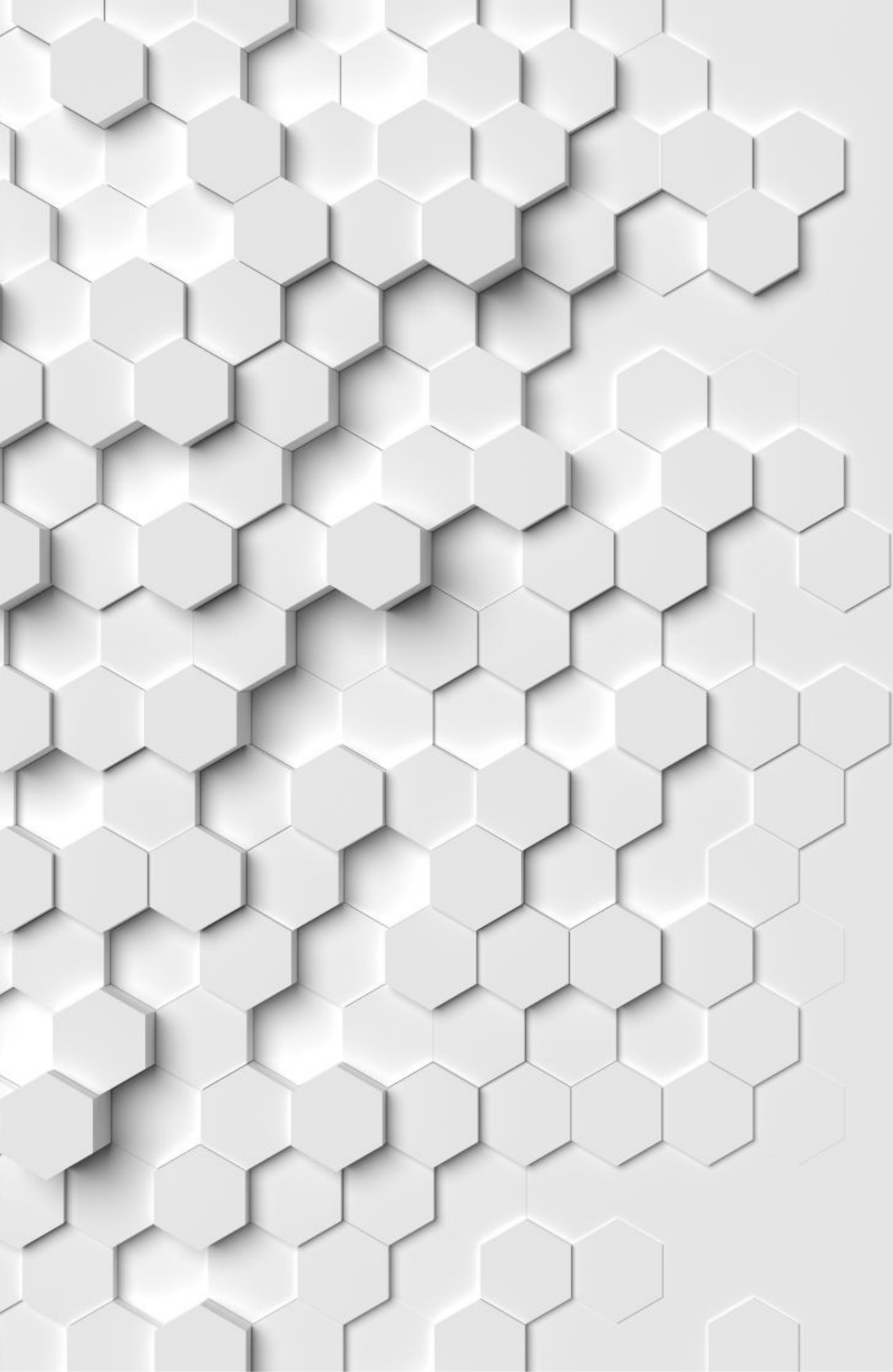
DESIGN, DEVELOPMENT, MANUFACTURING, ASSEMBLY, INSTALLATION AND TEST, SALES AND AFTER SALES SERVICE, REPAIR & MAINTENANCE OF PUMPS, PUMPING SYSTEM, HYDRO TURBINE, HYDRAULIC SYSTEM EQUIPMENT, WATER TREATMENT EQUIPMENT AND ASSOCIATED PARTS FOR WATER AND WASTEWATER EQUIPMENT.



ISO 45001 : 2018

Bureau Veritas Certify that the Management system has been audited and found to be in accordance with the requirement of the Management system standards detailed below

DESIGN, DEVELOPMENT, MANUFACTURING, ASSEMBLY, INSTALLATION AND TEST, SALES AND AFTER SALES SERVICE, REPAIR & MAINTENANCE OF PUMPS, PUMPING SYSTEM, HYDRO TURBINE, HYDRAULIC SYSTEM EQUIPMENT, WATER TREATMENT EQUIPMENT AND ASSOCIATED PARTS FOR WATER AND WASTEWATER EQUIPMENT.



wings
P U M P S



37/1 Tiwanon 48, Thasai, Nonthaburi
Tel: +66 02 580 8011 - 4
wgflow.com

