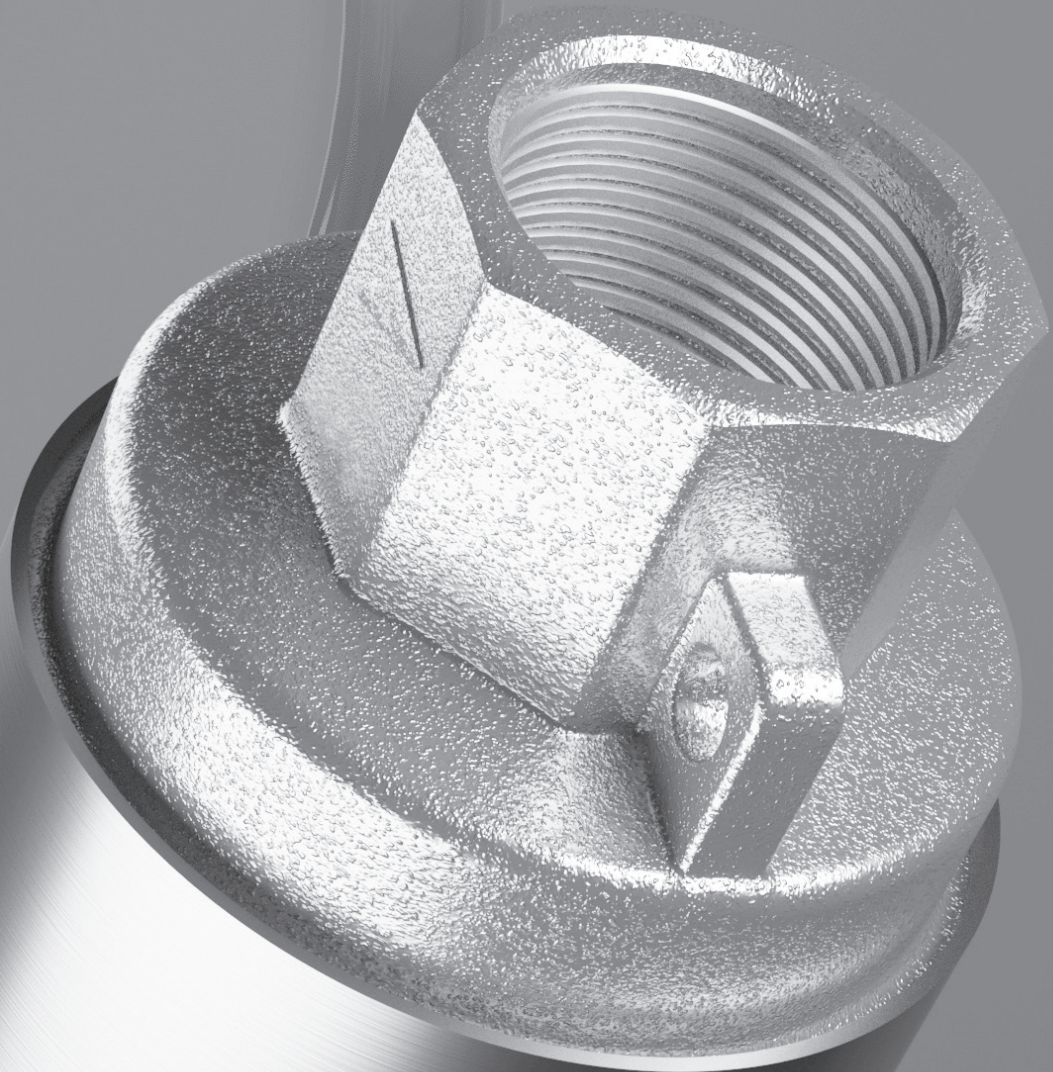


S4 60Hz

4" SUBMERSIBLE ELECTRIC PUMPS





TECHNICAL DATA

Flow rate: up to 120 GPM

Head up to: 1500 feet

Maximum immersion depth: 4GG - 4TW: 984 feet

Type of pumped liquid: Clean, free of solids and abrasive substances, non-viscous, non-aggressive, non-crystallized and chemically neutral

Sand quantity: 5.42 lb/in³

Liquid temperature: From +32°F to +104°F

Output connection:

S4 5-25: 1" 1/4 NPT

S4 35-90: 2" NPT

Pump maximum diameter: 3.9 inches

Impeller/s material: Technopolymer

Maximum number of starts: 20/hour

Protection class: IP68

Motor insulation class: F

Single phase power input: 1x115 V 60Hz / 1x230 V 60 Hz

Three phase power input: 3x230 V 60 Hz / 3x460 V 60 Hz

Possible type of installation: Fixed in vertical position. Horizontal installation is possible, it is recommended to install a cooling sleeve

Special versions on request: Different voltages, different cable lengths, version with 4GX

Certification: Pump end NSF61 & 372 approved.

4GG - 4TW motor: UL / CSA and NSF 61 & 372 approved

4" multi-impeller borehole pumps for clean water, designed for water boosting, gardening and irrigation, lifting water from boreholes in residential building service, commercial building service and irrigation systems also for agriculture. The S4 pumps must be installed in wells with a diameter of at least 4", or in tanks or cisterns and it increases the pressure of water that can then be used for example to water medium or large gardens or (in the case of models with a greater flow and head) in irrigation systems in agriculture.

Available as standard:

- Only pump end
- Pump body with water-filled motor 2WIRE
- Pump body with water-filled motor 3WIRE

CONSTRUCTION FEATURES OF THE PUMP

Technopolymer impellers housed with stainless steel adjustment rings. Pump liner, shaft, coupling with motor, integrated suction filter and cable guard are in stainless steel. Suction and delivery supports in micro-cast AISI 304 stainless steel. Removable built-in non-return valve in technopolymer or with stainless steel plate (depending on model, see the material table). Technopolymer impellers designed to ensure high levels of efficiency in accordance with PEI Directive starting from 25 GPM. NSF61 certificate is pending approval.

CONSTRUCTION FEATURES OF THE MOTOR

Pump can be coupled with 4" motors : 4GG, 4TW and 4GX.

4GG motors line includes single phase and three phase motors from 0.5 HP to 10 HP. 4TW is a single phase, 2 wire line from 0.5 HP to 1.5 HP. They are built based on resin canned stator technology. 4GG and 4GX single phase motors have to be installed with a control box, 4CBUS line sold separately, in the three-phase version the protection must be guaranteed by the user.

4TW motors are operated without starting control box, based on 2 wire technology with internal capacitor and thermal protector.

All parts in contact with water of 4GG and 4TW made in SS304, 4GX in full SS316.

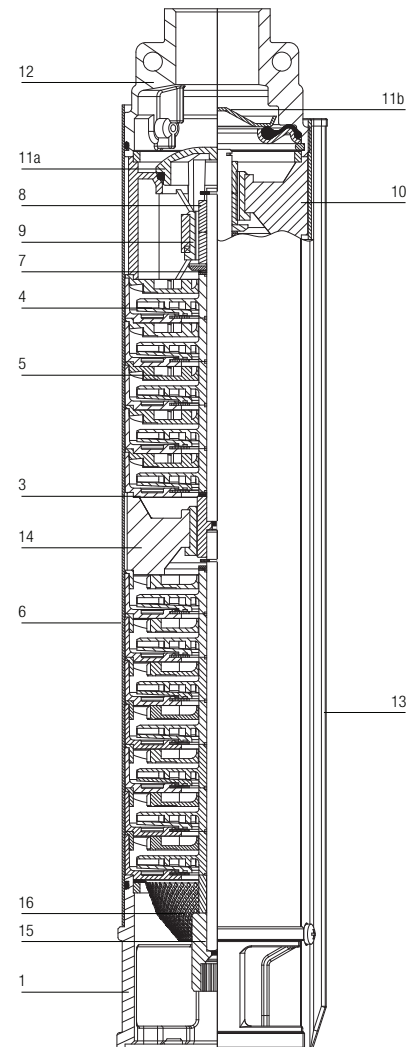
All motors come with CSA approval, NSF61 is pending in process.

Suitable for use with Variable Speed Drive (30-60 Hz).

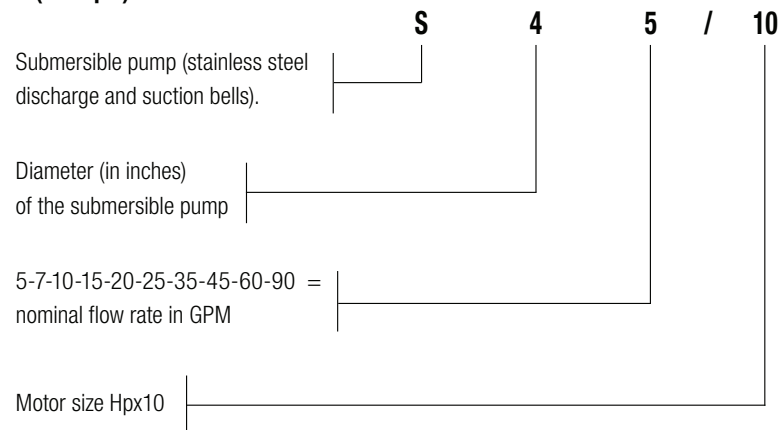
MATERIALS

| N° | PART* | MATERIALS |
|-----|---------------------------|-------------------------------|
| 1 | SUCTION | PRECISION CAST STEEL AISI 304 |
| 2 | SCREWS | STAINLESS STEEL AISI 304 |
| 3 | STAGE HOUSING | S4 5 UP TO 1.5HP |
| | | S4 7 UP TO 2HP |
| | | S4 10÷90 UP TO 3HP |
| | | S4 5/20 |
| | | S4 7/30 |
| 4 | IMPELLER | TECHNOPOLYMER |
| 5 | DIFFUSER | TECHNOPOLYMER |
| 6 | OUTER SLEEVE | STAINLESS STEEL AISI 304 |
| 7 | THRUST BEARING | STAINLESS STEEL AISI 304 |
| 8 | SHAFT SLEEVE | STAINLESS STEEL AISI 304 |
| 9 | BUSH BEARING | RUBBER TPU |
| 10 | UPPER SUPPORT | TECHNOPOLYMER |
| 11a | NON-RETURN VALVE | S4 5÷25 |
| | | S4 35÷90 UP TO 3HP |
| 11b | | S4 35÷90 ABOVE 3HP |
| 12 | DISCHARGE | PRECISION CAST STEEL AISI 304 |
| 13 | CABLE SHEATH | STAINLESS STEEL AISI 304 |
| 14 | INTERMEDIATE SHAFT SLEEVE | STAINLESS STEEL AISI 304 |
| 15 | SHAFT WITH COUPLING | STAINLESS STEEL AISI 304 |
| 16 | FILTER | STAINLESS STEEL AISI 304 |

* In contact with the liquid.

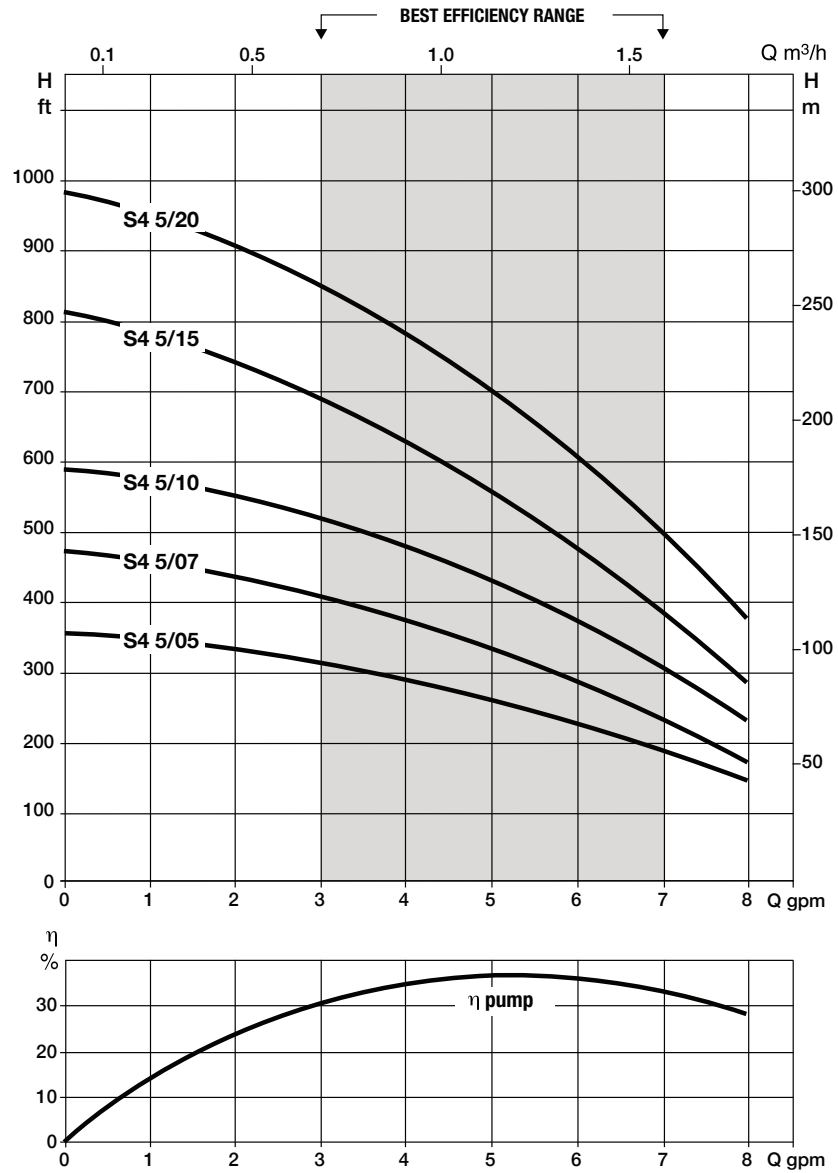
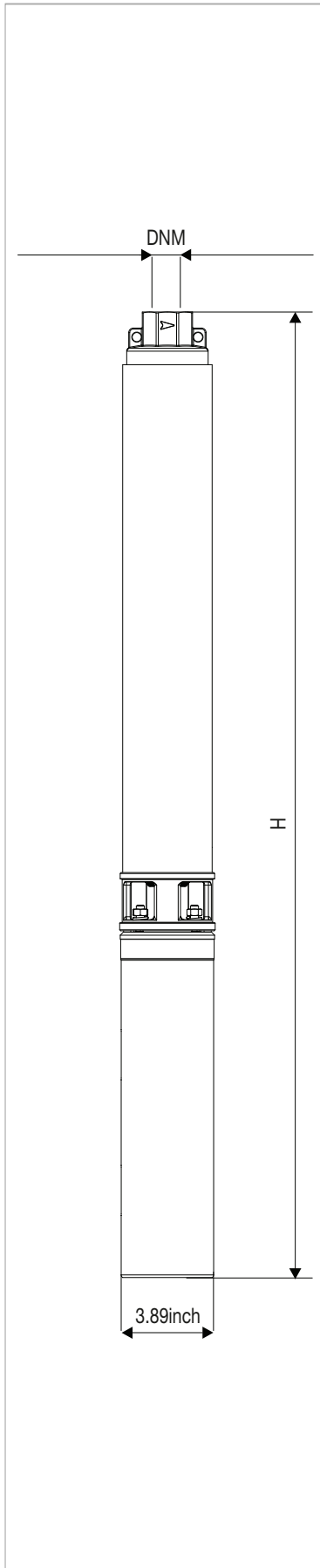


– Denomination index: (example)



S45

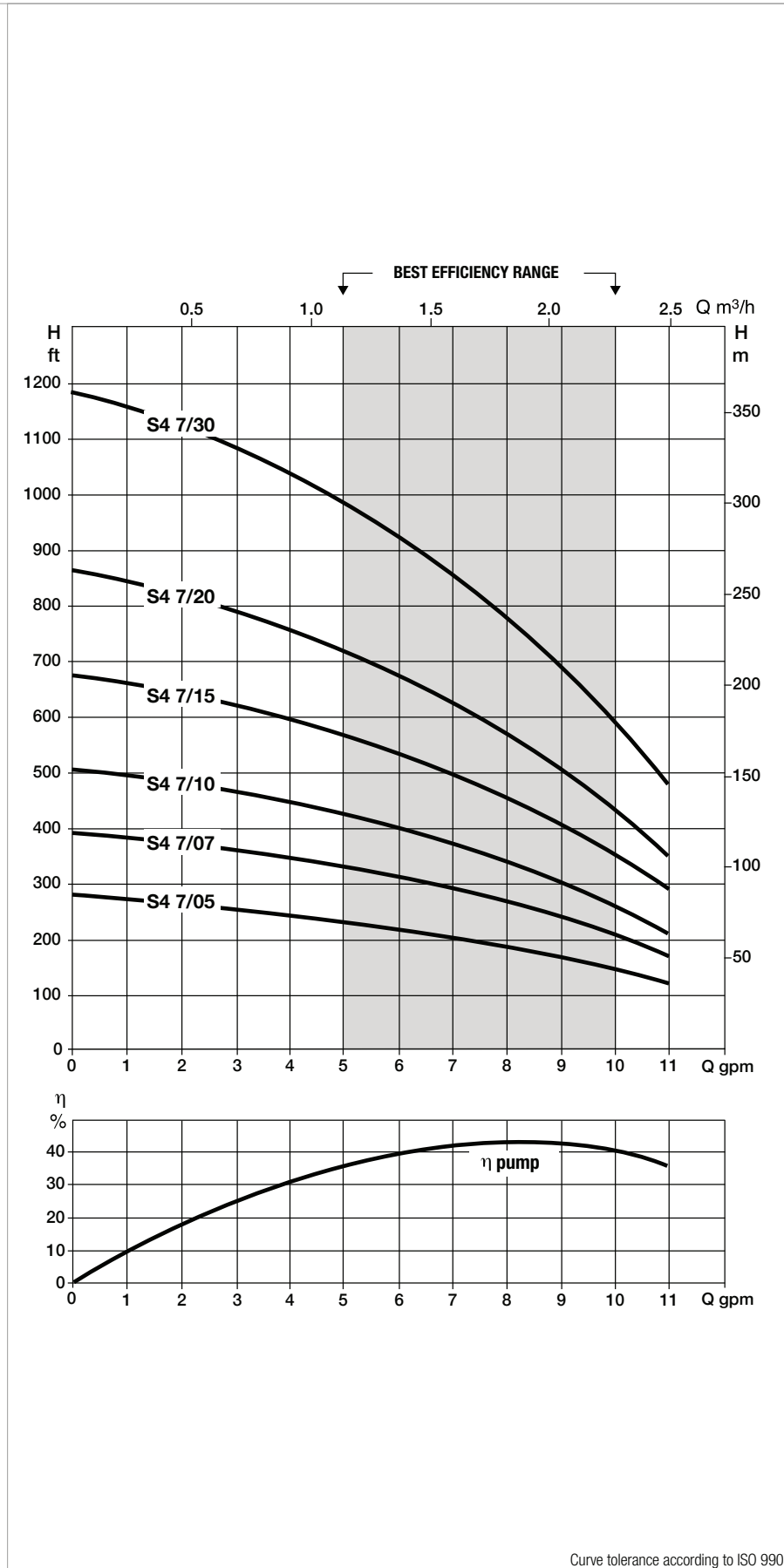
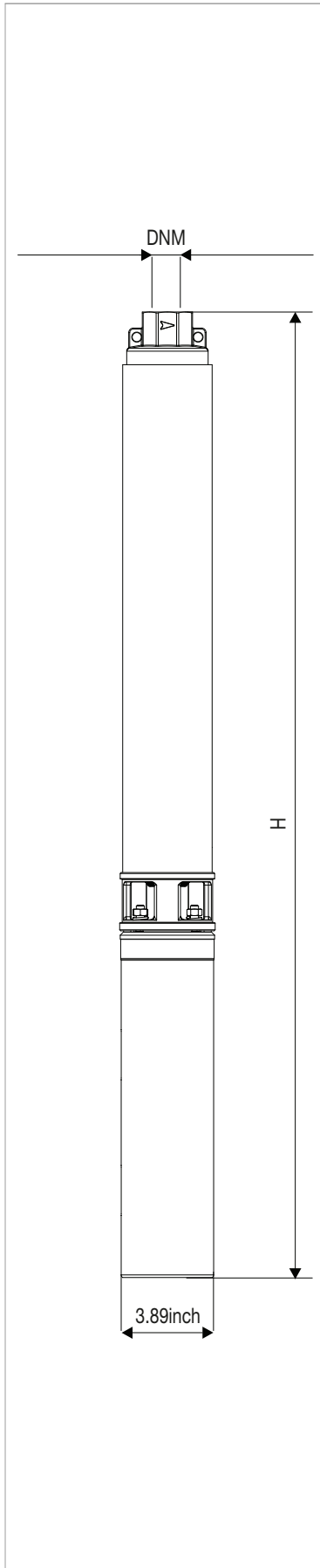
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S47

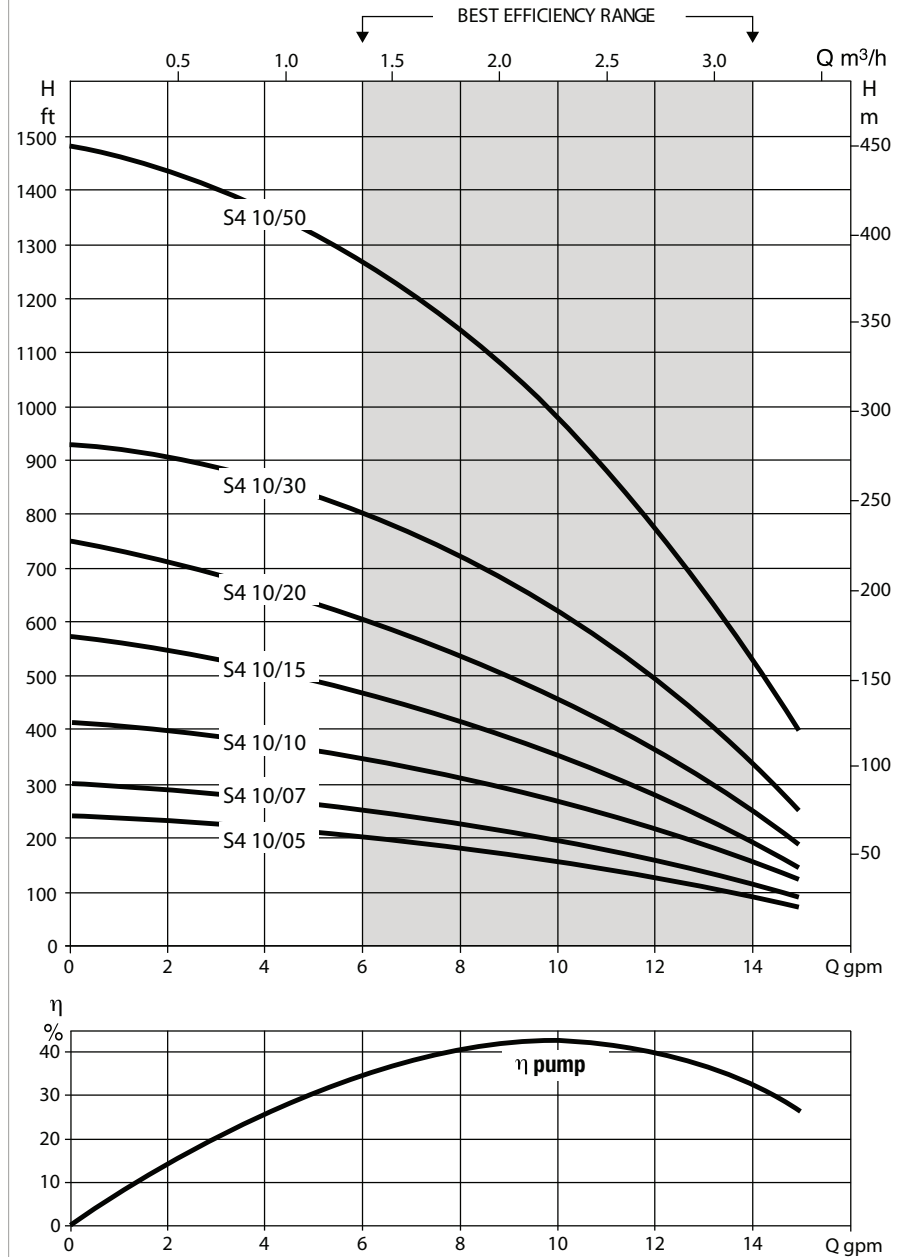
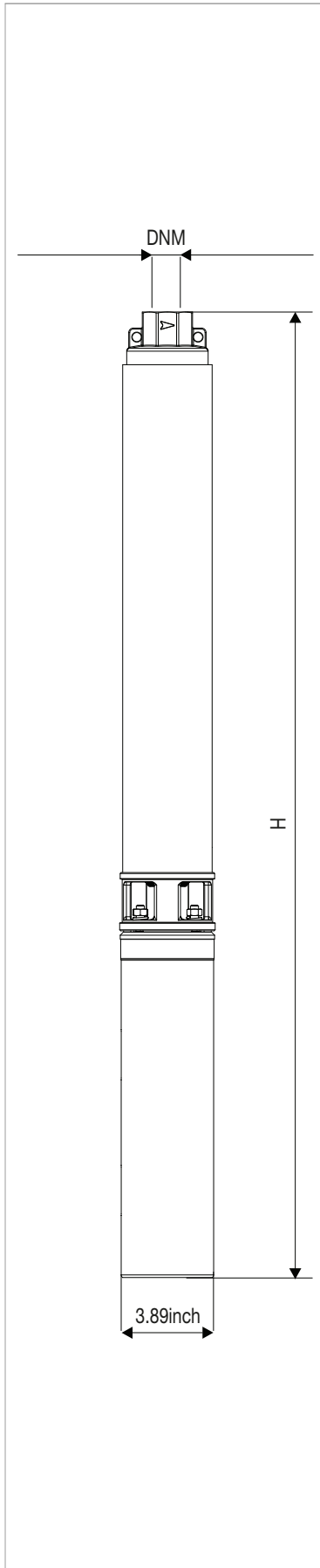
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 10

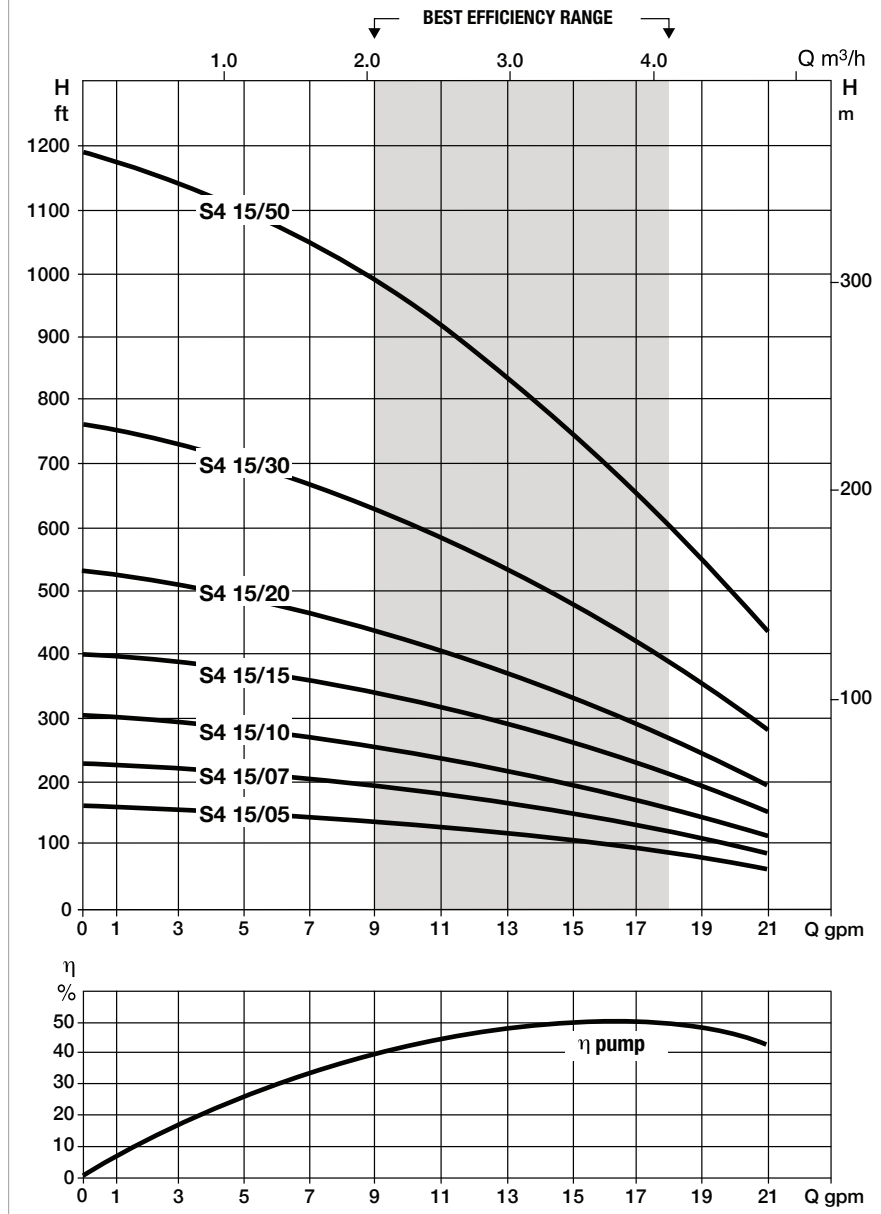
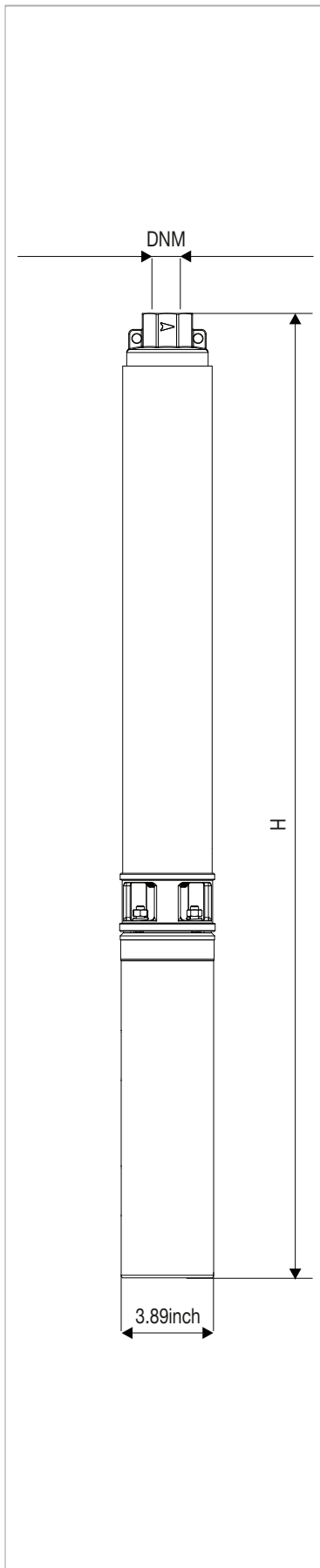
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 15

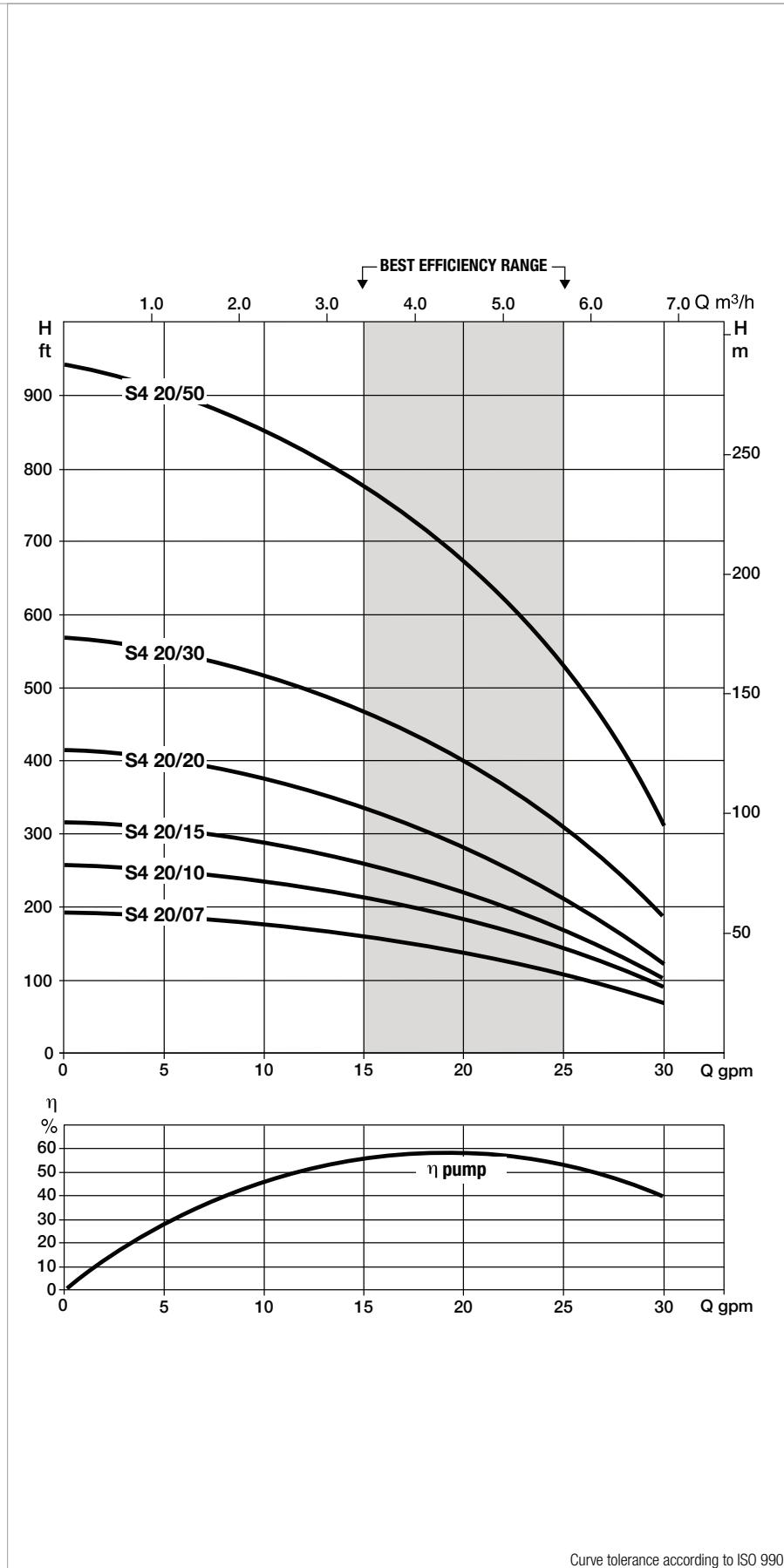
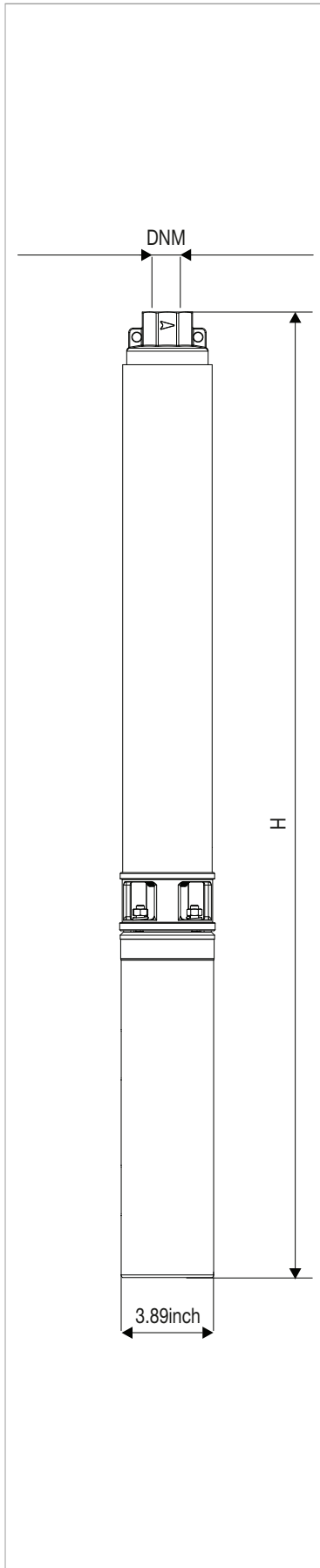
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 20

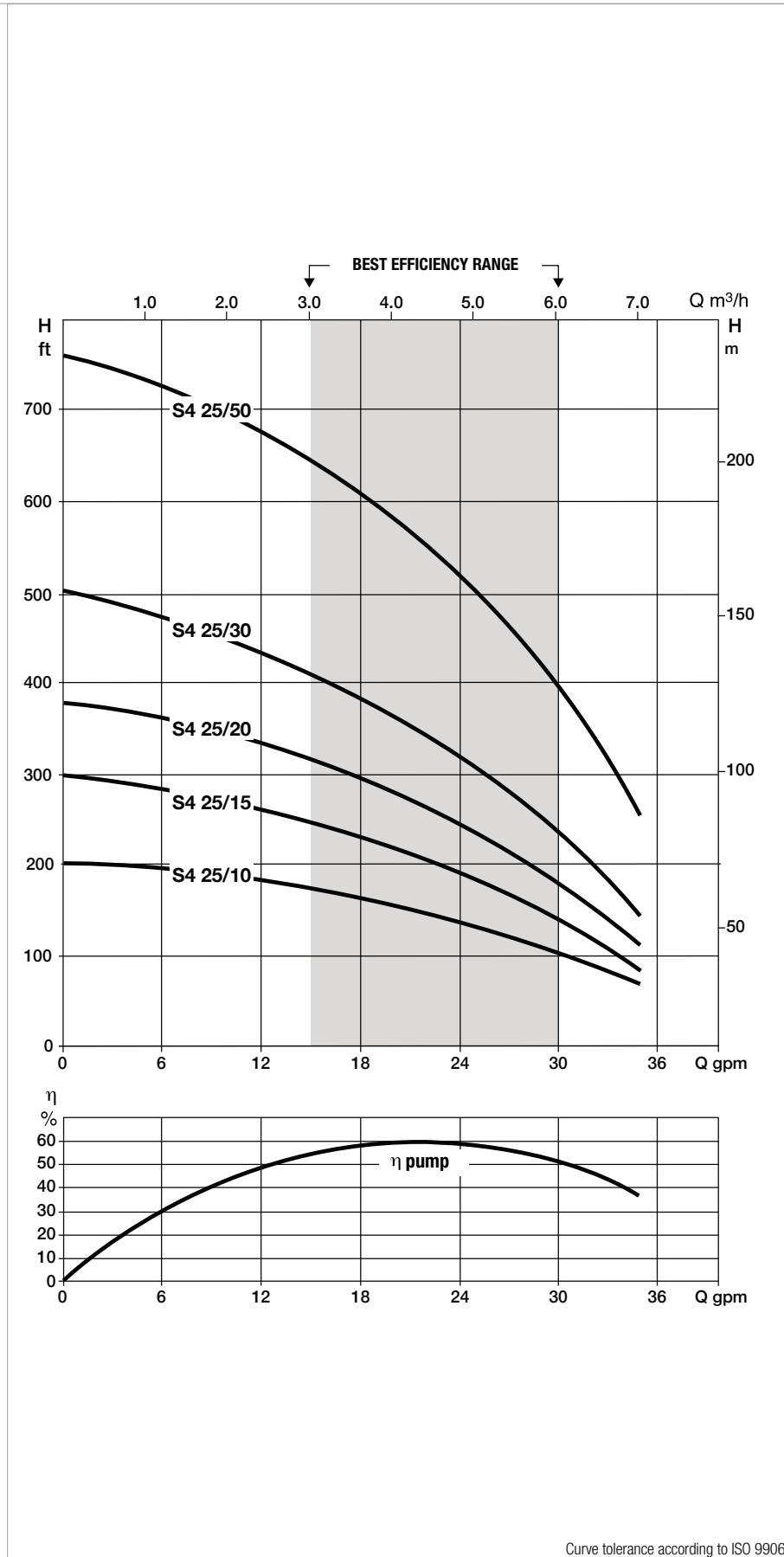
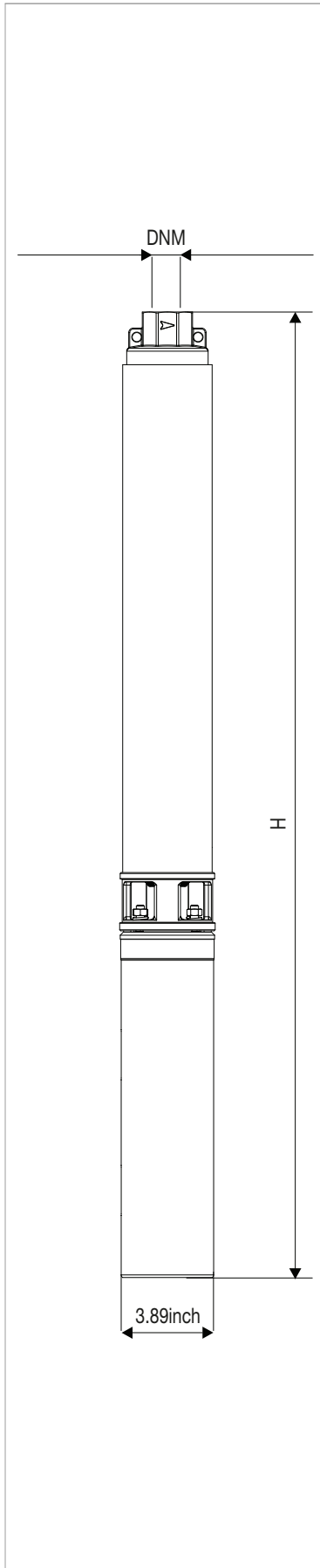
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 25

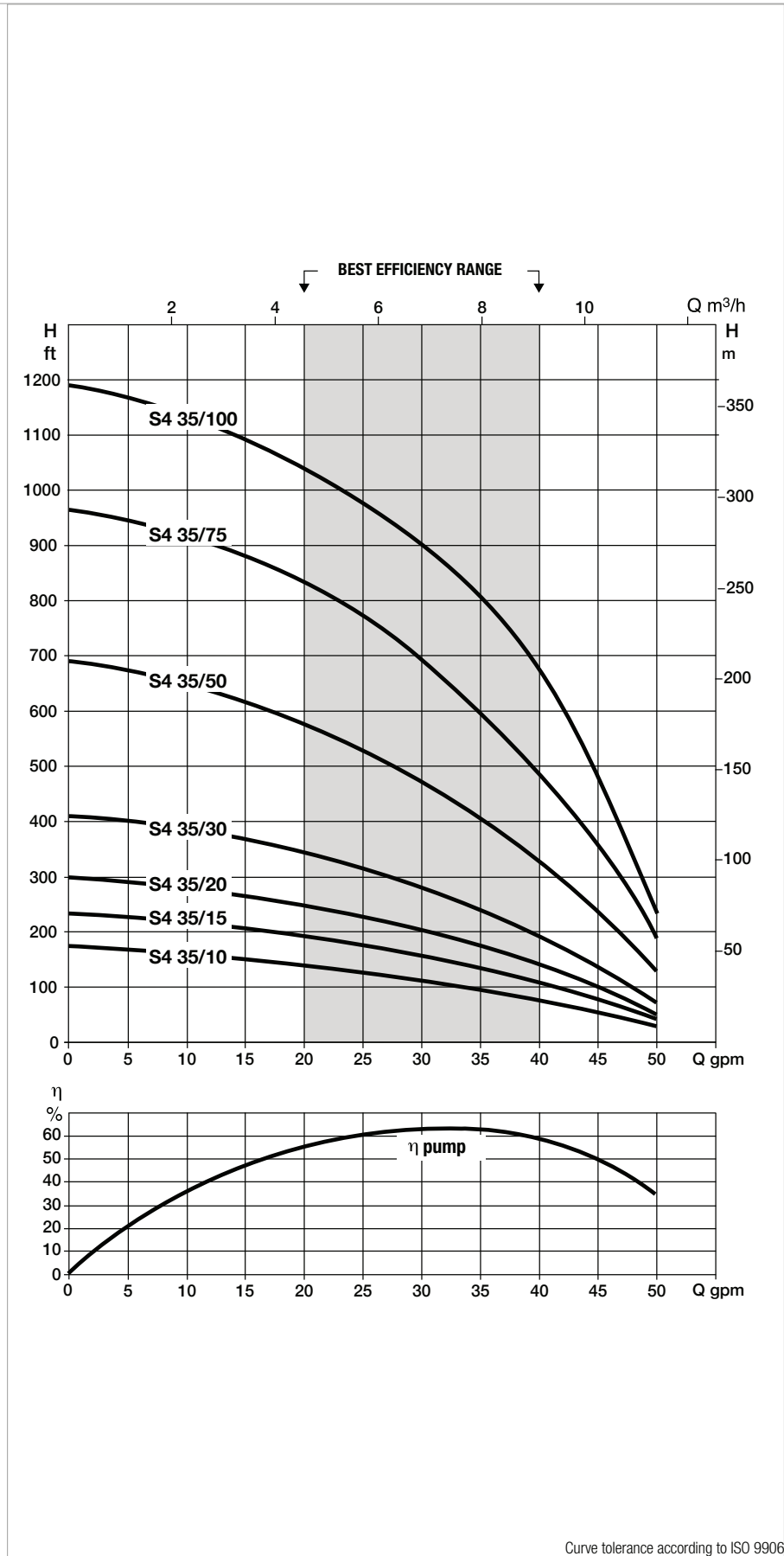
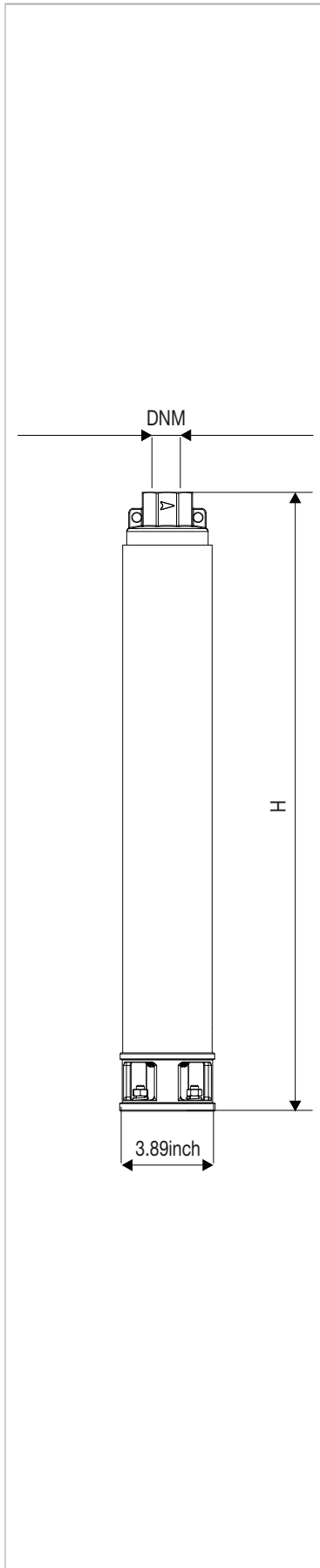
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 35

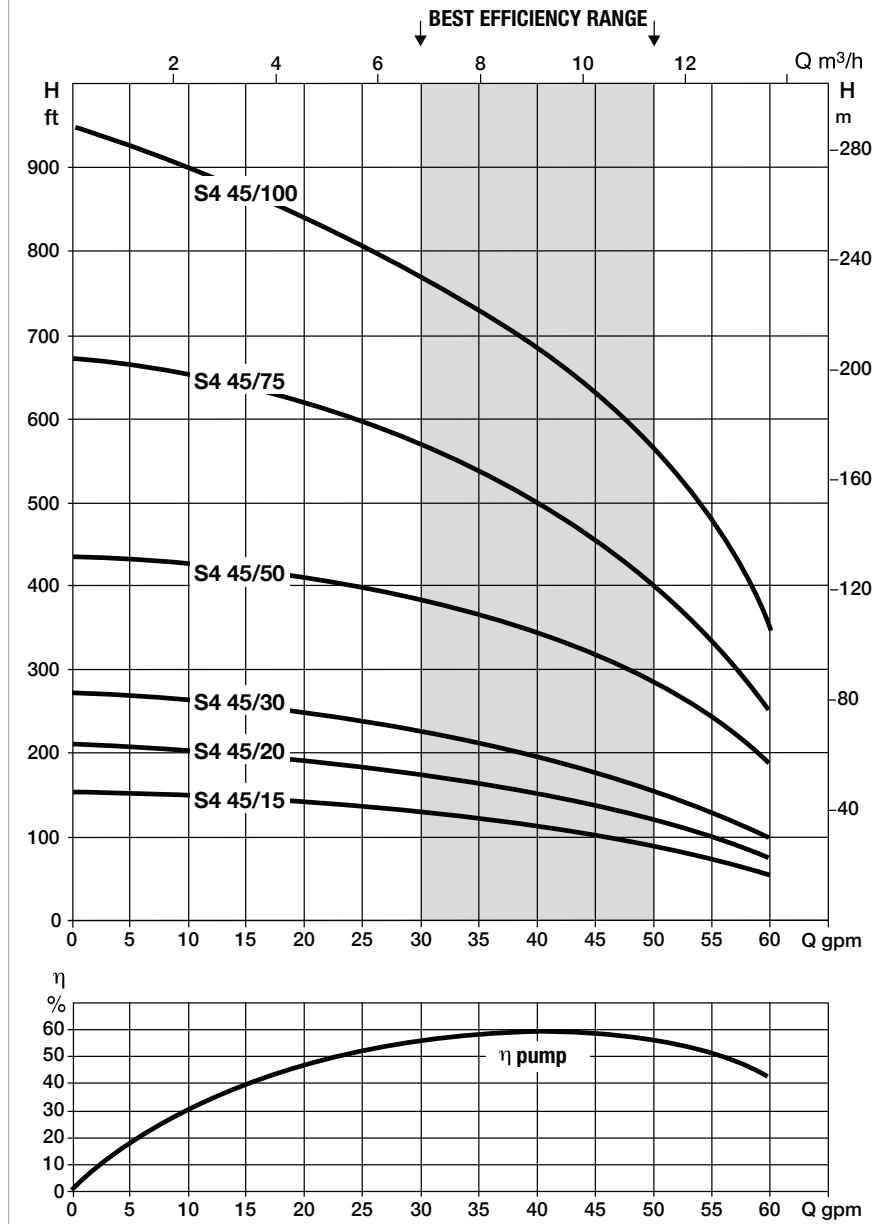
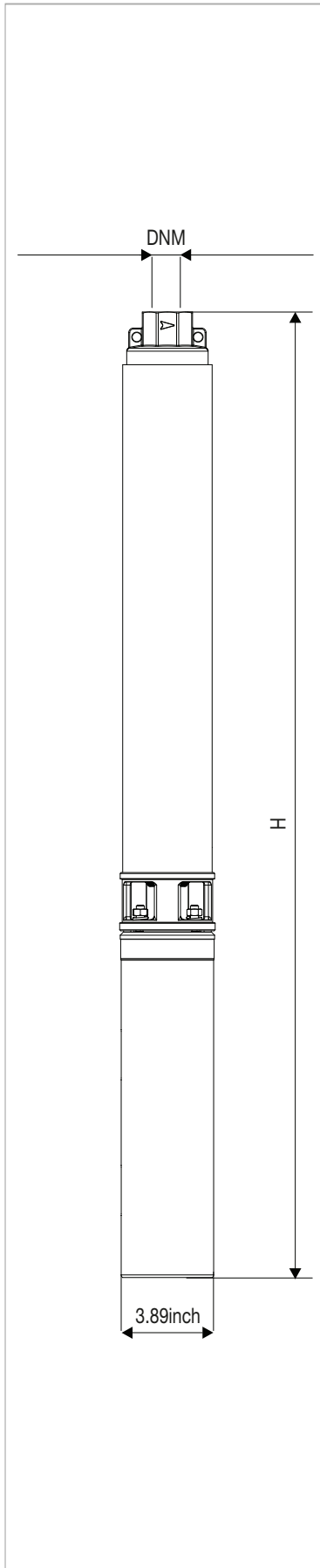
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 45

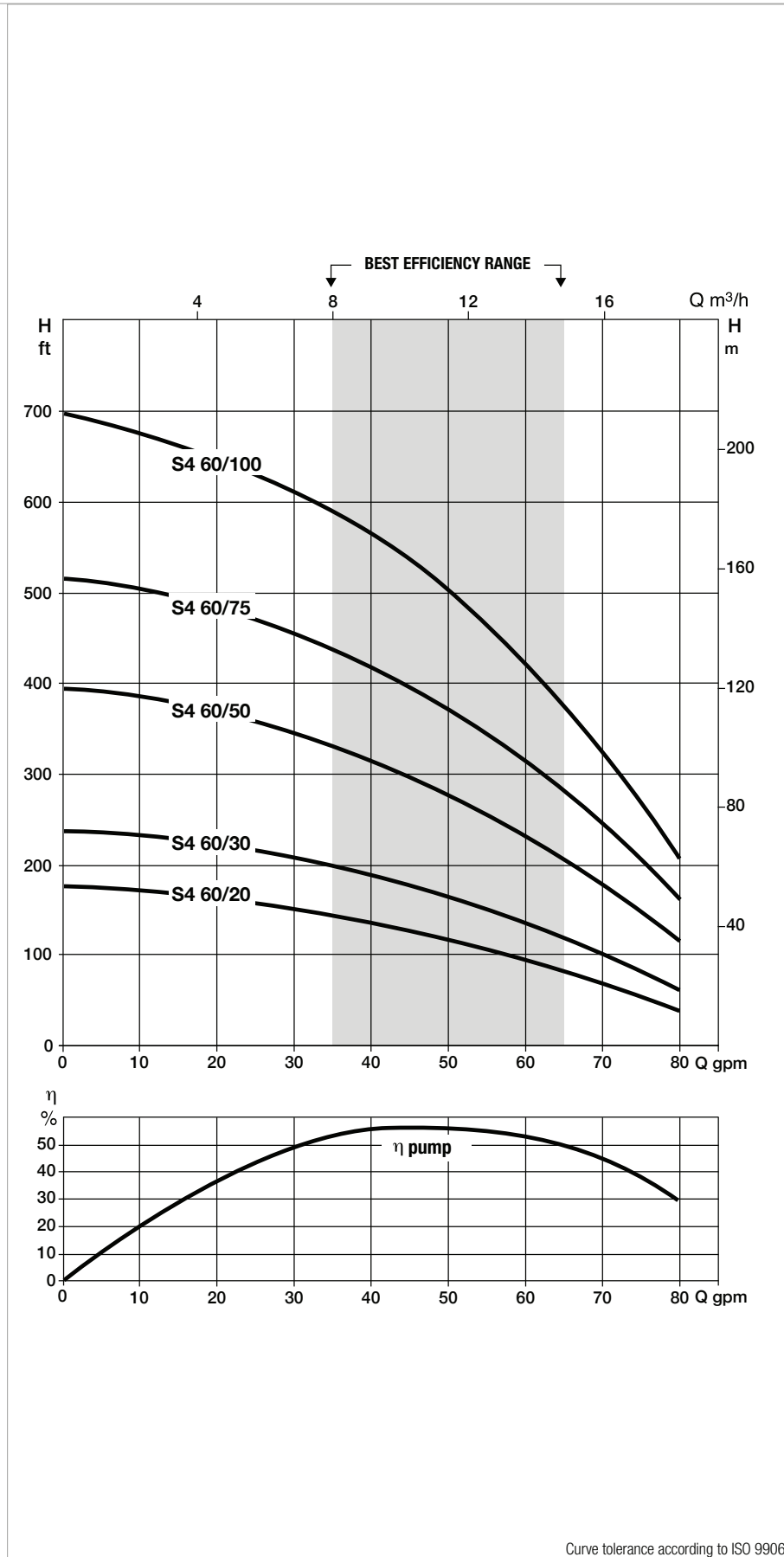
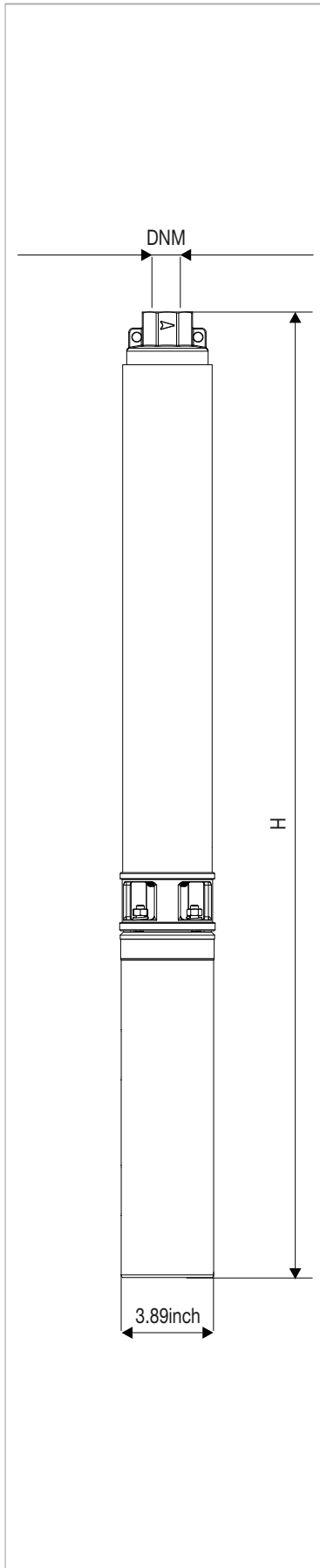
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 60

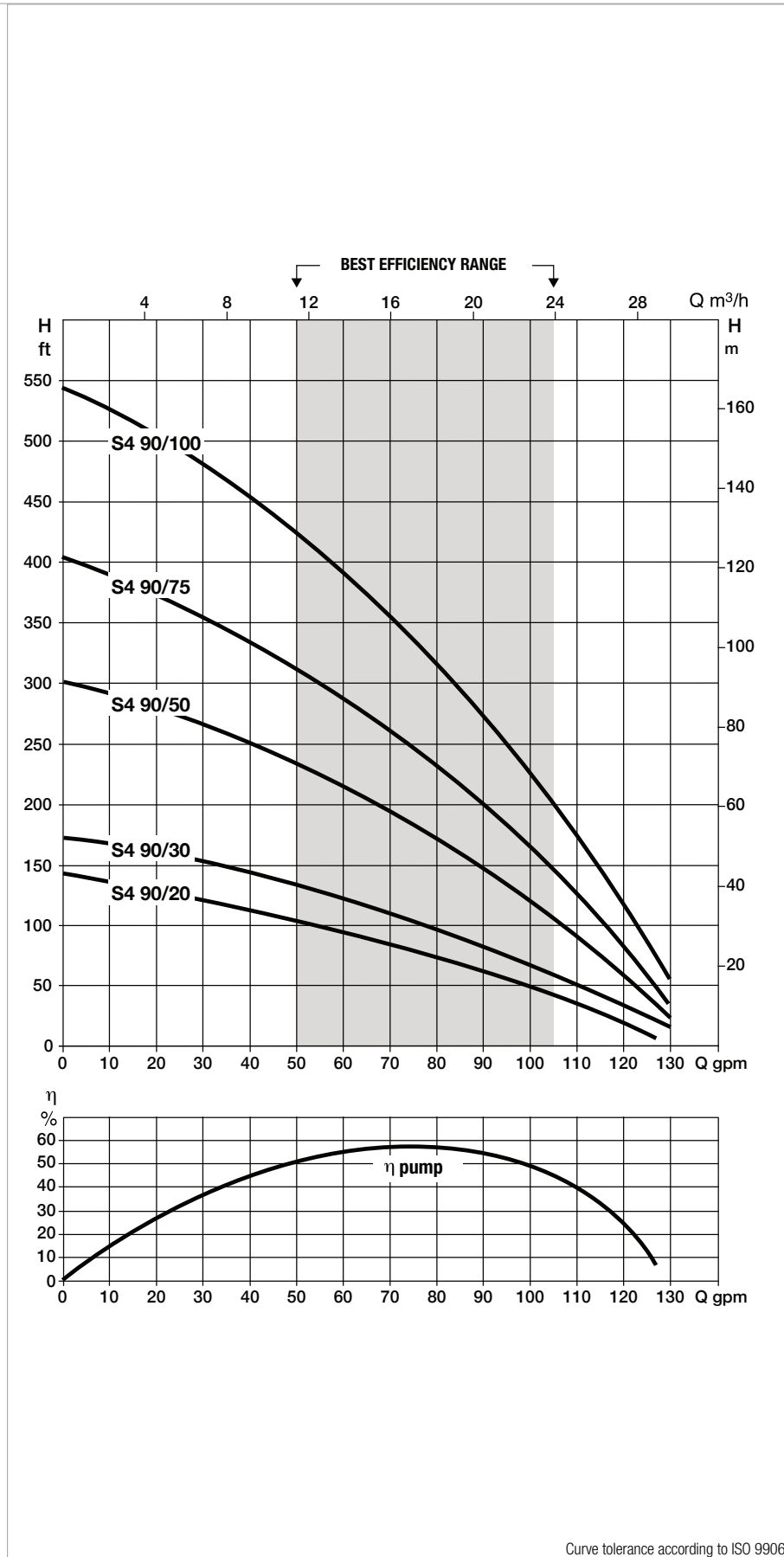
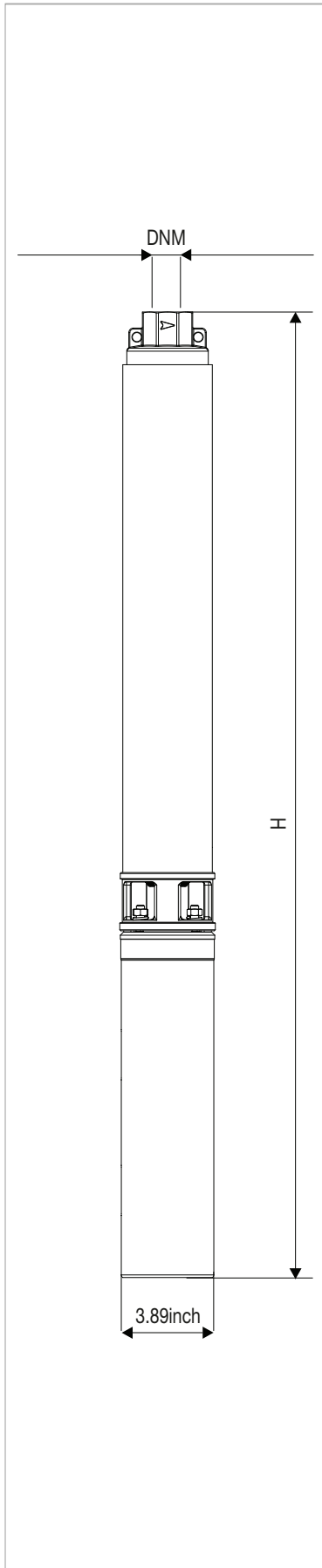
4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

S4 90

4" SUBMERSIBLE ELECTRIC PUMPS



Curve tolerance according to ISO 9906

HYDRAULIC EFFICIENCY

US DOE,s PUMPS ENERGY CONSERVATION STANDARDS

GENERAL INFORMATION

The “S4” pumps are compliant with US DOE,s Pumps energy conservation standards:

- §431.462 Clean water pump
- §431.464 Test procedure for the measurement of energy efficiency, energy consumption, and other performance factors of pumps.
- §431.465 Pumps energy conservation standards and their compliance dates.
- §431.466 Pumps labeling requirements.

The testing and labelling is done by DAB as per the following test procedure, no certification body involvement required for USA.

Appendix A to Subpart Y of Part 431—Uniform Test Method for the Measurement of Energy Consumption of Pumps.

For more info: www.ecfr.gov

| BEP US gpm | P2 kW | P2 HP | DAB Model (Pump End DAB) | STAGES | PEI pump end | PEI Hydraulic + 2W motor 230 V | PEI Hydraulic + 3W motor 230 V |
|---------------|----------|----------|-----------------------------|--------|--------------|-----------------------------------|-----------------------------------|
| 25 | 0,75 | 1 | S 25/10 | 7 | 0,98 | 1 | 0,98 |
| | 1,1 | 1,5 | S 25/15 | 10 | 0,88 | 0,97 | 0,92 |
| | 1,5 | 2 | S 25/20 | 13 | 0,87 | | |
| | 2,2 | 3 | S 25/30 | 17 | 0,93 | | |
| | 3,7 | 5 | S 25/50 | 26 | 0,9 | | |
| 35 | 0,75 | 1 | S 35/10 | 6 | 0,94 | | |
| | 1,1 | 1,5 | S 35/15 | 8 | 0,9 | | |
| | 1,5 | 2 | S 35/20 | 10 | 0,89 | | |
| | 2,2 | 3 | S 35/30 | 14 | 0,9 | | |
| | 3,7 | 5 | S 35/50 | 24 | 0,88 | | |
| | 5,5 | 7,5 | S 35/75 | 35 | 0,92 | | |
| | 7,5 | 10 | S 35/100 | 49 | 0,92 | | |
| 45 | 1,1 | 1,5 | S 45/15 | 5 | 0,98 | | |
| | 1,5 | 2 | S 45/20 | 7 | 0,96 | | |
| | 2,2 | 3 | S 45/30 | 9 | 0,97 | | |
| | 3,7 | 5 | S 45/50 | 14 | 0,92 | | |
| | 5,5 | 7,5 | S 45/75 | 22 | 0,94 | | |
| | 7,5 | 10 | S 45/100 | 30 | 0,94 | | |
| 60 | 1,5 | 2 | S 60/20 | 6 | 1 | | |
| | 2,2 | 3 | S 60/30 | 8 | 1 | | |
| | 3,7 | 5 | S 60/50 | 13 | 0,98 | | |
| | 5,5 | 7,5 | S 60/75 | 17 | 1 | | |
| | 7,5 | 10 | S 60/100 | 23 | 1 | | |
| 90 | 1,5 | 2 | S 90/20 | 5 | 1 | | |
| | 2,2 | 3 | S 90/30 | 6 | 1 | | |
| | 3,7 | 5 | S 90/50 | 10 | 1 | | |
| | 5,5 | 7,5 | S 90/75 | 14 | 1 | | |
| | 7,5 | 10 | S 90/100 | 19 | 0,96 | | |



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