

| Material Specification |                        |                      |     |
|------------------------|------------------------|----------------------|-----|
| Pos                    | Components             | Discharge            | Std |
| 1                      | Discharge              | Stainless Steel      | 304 |
| 2                      | Diffuser               | Stainless Steel      | 304 |
| 3                      | Impeller               | Stainless Steel      | 304 |
| 4                      | Split Cone             | Stainless Steel      | 304 |
| 5                      | Split Cone Nut         | Carbon/Graphite/PTFE |     |
| 6                      | Stop Ring              | Stainless Steel      | 304 |
| 7                      | Neck Ring Retainer     | Stainless Steel      | 304 |
| 8                      | Strainer               | Stainless Steel      | 304 |
| 9                      | Suction Interconnector | Stainless Steel      | 304 |
| 10                     | Coupling               | Stainless Steel      | 304 |
| 11                     | Pump Shaft             | Stainless Steel      | 431 |
| 12                     | Strap                  | Stainless Steel      | 304 |
| 13                     | Cable Guard            | Stainless Steel      | 304 |
| 14                     | Neck Ring              | SUS304+NBR           |     |
| 15                     | Nut                    | Stainless Steel      | 304 |
| 16                     | Bearing                | NBR                  | 304 |

Dayliff DS submersible multistage centrifugal pumps are specially designed for water supply from boreholes. They are manufactured to the highest standards that gives high energy efficiency, dependable performance and long service life in the most demanding of applications.

## Features

- All metal parts made of 304 stainless steel, except for the shaft, which is made of 431 stainless steel to give years of trouble free operation.
- Heavy duty stainless steel discharge head with built-in check valve for long life and ease of installation.
- Motor specifications are according to NEMA standards.
- High quality shaft bearings providing low friction and high wear resistance.
- Stainless steel strainer to restrict the entry of sand and other extraneous material.
- High efficiency oil filled motors with non-toxic oil meeting all installation conditions.
- Single phase pumps are supplied with a separate control box which incorporates an isolator, run indicator light, thermal overload protection and starting capacitor with auxiliary terminals for control probes, pressure switch or float switch can be connected directly to the mains power.
- Three phase pumps require a remote starter. A DAYLIFF electronic pump controller is recommended for comprehensive pump control including wireless low level, motor overload and irregular power supply protection.
- High capacity copper wound 2-pole asynchronous squirrel-cage motor with a steady operating curve
- Enclosure Class: IP68
- Insulation Class: F

## Operating Conditions

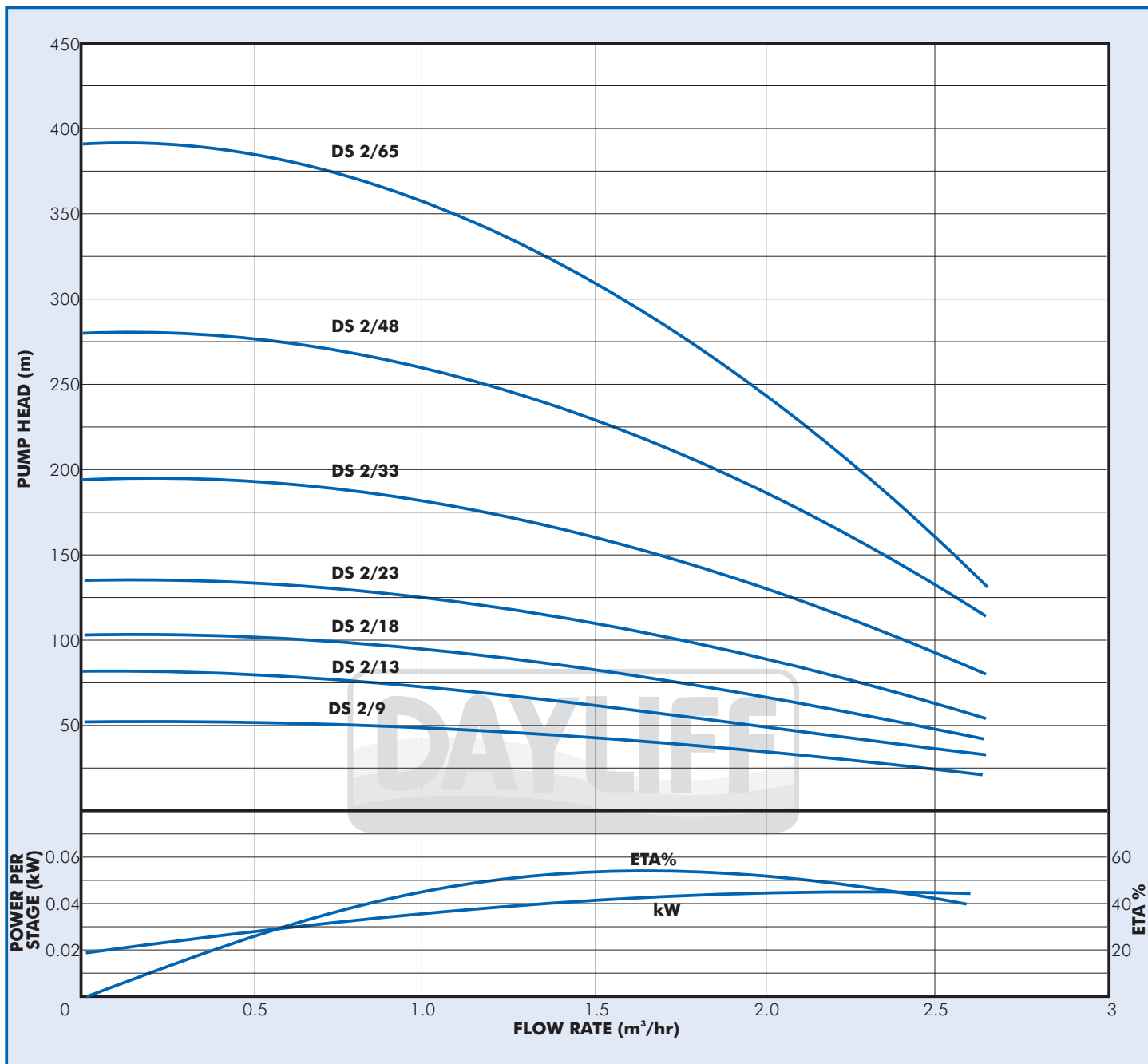
**Pumped Liquids:** Thin, clean, non-explosive liquids without solid particles or fibres.

**Max Liquid Temperature:** +30°C.

**Max Immersion Depth:** 300m

**Minimum Borehole Data:** 110mm(4" pumps), 160/200mm (6" pumps), 250mm(8" pumps)

**Max Sand Content:** 50g/m<sup>3</sup>



### Pump Data

| Model   | Motor |      | Full Load Current (A) |        | Start Current (A) |        | Dimensions (mm) |        |        |        | C   | Weight (kg) |        |
|---------|-------|------|-----------------------|--------|-------------------|--------|-----------------|--------|--------|--------|-----|-------------|--------|
|         | kW    | HP   | 1x240V                | 3x415V | 1x240V            | 3x415V | A               |        | B      |        |     | 1x240V      | 3x415V |
|         |       |      |                       |        |                   |        | 1x240V          | 3x415V | 1x240V | 3x415V |     |             |        |
| DS 2/9  | 0.37  | 0.5  | 3.5                   |        | 9                 |        | 681             |        | 325    |        | 356 | 9.5         |        |
| DS 2/13 | 0.55  | 0.75 | 4.3                   |        | 15                |        | 785             |        | 345    |        | 440 | 12          |        |
| DS 2/18 | 0.75  | 1.0  | 6.3                   |        | 20                |        | 920             |        | 375    |        | 545 | 13.4        |        |
| DS 2/23 | 1.1   | 1.5  | 8.5                   | 3.6    | 25                | 16     | 1045            | 1025   | 395    | 375    | 650 | 15.3        | 14.4   |
| DS 2/33 | 1.5   | 2.0  | 10.8                  | 4.6    | 35                | 20     | 1323            | 1278   | 440    | 395    | 883 | 21.2        | 19.3   |
| DS 2/48 | 2.2   | 3    | 14                    | 6.3    | 45                | 33     | 1756            | 1638   | 558    | 440    | 198 |             |        |
| DS 2/65 | 3     | 4    |                       | 7.9    |                   | 45     |                 | 2123   |        | 558    | 565 |             | 41     |

