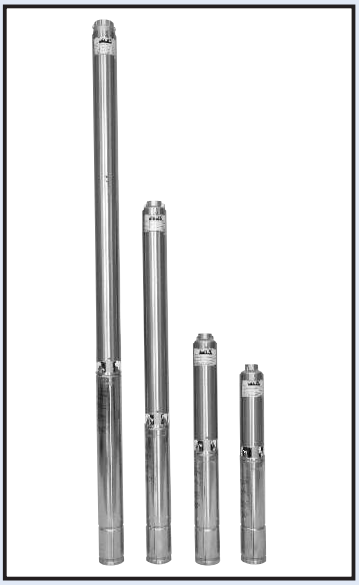
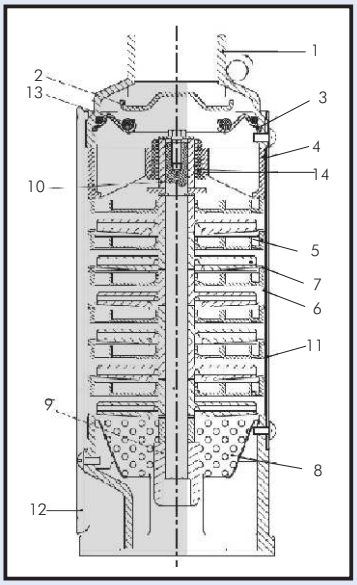
Submersible Borehole Pumps DSP





Material Specification

Pos	Part Name	Material
1	Discharge Head	AISI 304 SS
2	Check Valve Cone	AISI 304 SS
3	Check Valve Retaining Ring	AISI 304 SS
4	Bearing Spider	Glass Filled Polycarbonate
5	Diffuser	Glass Filled Polycarbonate
6	Bowl	AISI 304 SS
7	Impeller	Noryl
8	Strainer	AISI 304 SS
9	Pump Shaft/Coupling	AISI 304 SS
10	Shaft Sleeve	AISI 304 SS or Noryl
11	Pump Casting	AISI 304 SS
12	Cable Guard	AISI 304 SS
13	O-Ring	NBR
14	Bearing	Polyacetal

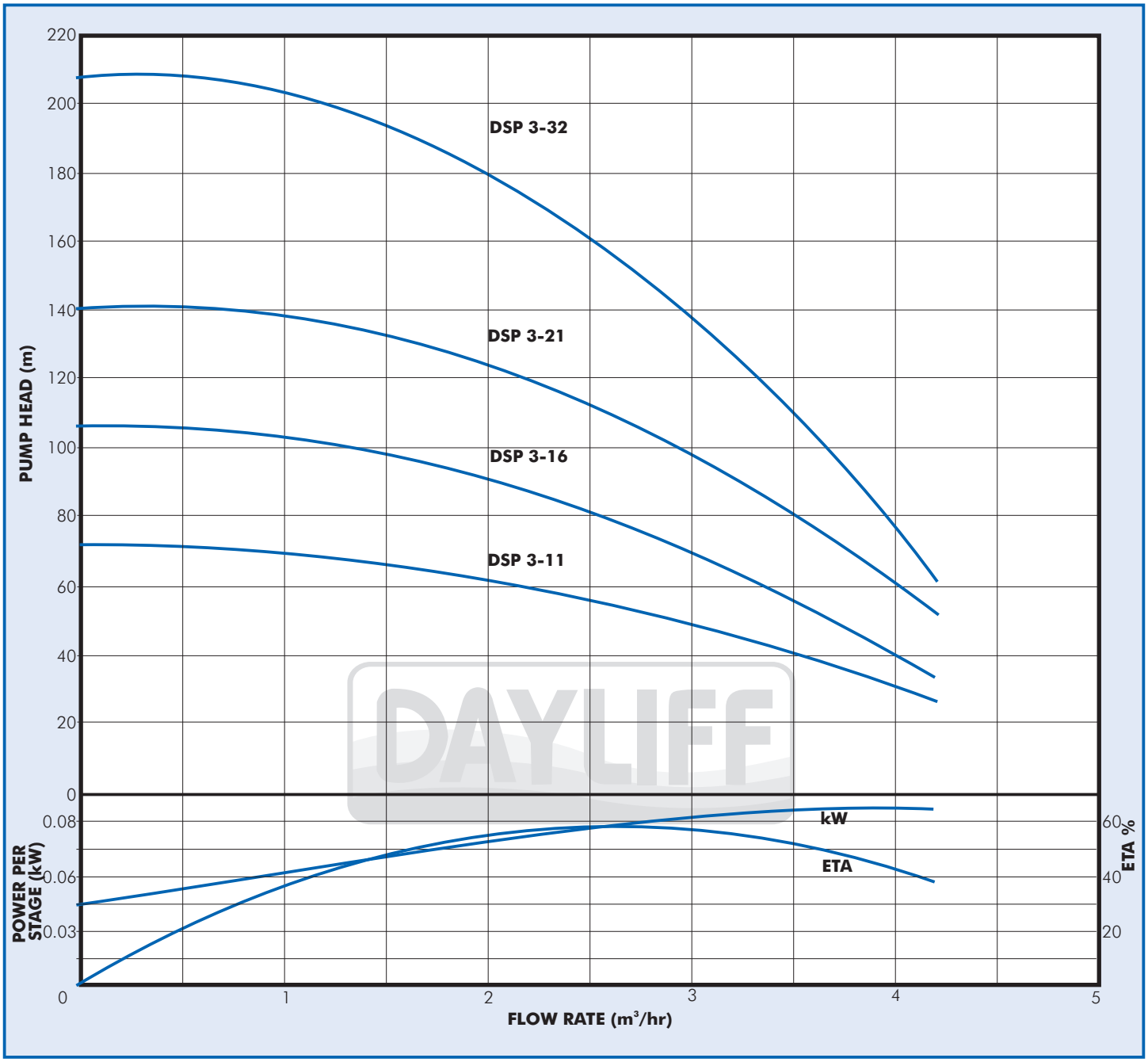
Dayliff DSP Submersible multistage centrifugal pumps are specially designed for water supply from boreholes and wells.

Features

- Discharge head and motor adaptor are precision machined cast 304 stainless steel for superior strength and durability. The motor adaptor is NEMA standard.
- Impellers are floating type made with Noryl for superior sand handling. Together with glass filled polycarbonate diffusers, the pump is super strong for maximum wear and abrasion resistance. The materials are FDA compliant.
- Impeller stages are made from 304 stainless steel, minimising wear from abrasion.
- Shaft coupling is made from 304 stainless steel for easy alignment to the motor shaft.
- Strainer is made from stamped 304 stainless steel for rigidity.
- Non-Return valve made from 304 stainless steel, fitted in the discharge to prevent water back flow and control water hammer.
- Pump stages are sleeved by a 1.5mm thick 304 polished stainless steel casing for rigidity and protection.
- Bearing is made with Polyacetal for strong wear and abrasive resistance.
- 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.
- Enclosure Class: IP68
- Insulation Class: F

Operating Conditions

Pumped liquid: Thin, clean, chemically non aggressive liquids with a maximum sand content 50g/m^3.
Max. Water temperature: +35^{0}C
Max. Immersion depth: 200m
Min. borehole diameter: 110mm



Pump Data

Model	Voltage (V)	Power		Current (A)	Istart	DN (")	Dimensions (mm)			Weight (kg)
		kW	HP		I		A	C	D	
DSP 3-11	1x240	0.75	1	4.3	4.7	1¼	342	98	722	12
DSP 3-11	3x415	0.75	1	2.3	3.9	1¼	342	98	707	12
DSP 3-16	1x240	1.1	1.5	8.1	4.0	1¼	430	98	835	14
DSP 3-16	3x415	1.1	1.5	3.1	3.9	1¼	430	98	810	13
DSP 3-21	1x240	1.5	2	10.4	3.7	1¼	519	98	959	17
DSP 3-21	3x415	1.5	2	4	3.5	1¼	519	98	924	15
DSP 3-32	1x240	2.2	3	15	3.1	1¼	749	98	1244	21
DSP 3-32	3x415	2.2	3	5.6	3.9	1¼	749	98	1189	19

