

BE  
PUMPING  
PARTNERS

# S3P S3.5P SDROO Series

Deep-Well  
Submersible  
Pump 3"-3.5"



hydroo®

HYDROO is present in all the European markets by means of a distribution network focused on the service and the valuation of the pumping business. HYDROO conceives, researches, develops, designs, industrializes, and manufactures a wide range of pumping solutions for the most demanding applications in industrial markets, irrigation, water supply and water treatment as well as in residential and commercial buildings. The values of operational excellence, experience, reliability, and passion for a well-done job guide the daily work of the Hydroo team together with our partners and distributors. The global challenges of water management require excellence in pumping technologies and a joint effort between designers, manufacturers, and pumping engineers. To meet the needs of the market in the more demanding installations Hydroo is firmly committed to manufacturing the best pumping equipment on the market following and sharing our values worldwide.

The Hydroo values are presented in 5 great concepts that we summarize in our motto Hy5, which are our principles and commitments:

# BE PUMPING PARTNERS



L'Estany de Banyoles (Pla del Estany county, Catalonia)

The lake of Banyoles is an amazing natural space, of great geological, ecological, landscape and cultural value. You can walk and enjoy their most emblematic corners or practice numerous sports and leisure activities nearby.

**Coordinates:**  
Longitude: 2.75656  
Latitude: 42.13101



## hymotion

Value proposal based on the reliability of products enhancing the quality, the development of efficient supply chains, the productivity with the love of craftsmen at every step of the manufacturing and production lines. We move with the commitment to improve pumping systems, make them more efficient, more reliable, more digitized, more at the service of the human development.



## hylite

Contribution to preservation of the environment and to sustainability. We reduce the environmental impact and footprint of carbon. We contribute to the development of the circular economy. Our team stand out for the highest standards of energy efficiency.



## hyficient

The use of the most advanced analytical, development and simulation tools allows us to optimize our R&D teamwork results. We maximize the study of materials, efficient hydraulics, mechanical improvements and the optimization of our motors up to 200 kW. The results are robust, reliable, flexible, adjustable, multipurpose, and user-friendly pumping equipment.



## hynovative

Commitment to implementation of the innovation process as strategic pillar of the company. Transfer new ideas to realities that evolve pumping industry and internalize the process in each job position to offer market improvements.



## hyliance

We are the factory of our customers. Without solution of continuity between the value chain starting in the components production plants and ending with amortization of the pumping equipment operating at full performance for years and giving satisfaction to distributors, project engineers and pumping systems managers. We make real our catchphrase **Be Pumping Partners**.

# S3P

50Hz 3"  
Submersible  
Multistage

## Operating conditions

Maximum fluid temperature up to +35 °C.  
Maximum sand content: 150 gr/m<sup>3</sup>.  
Maximum immersion: 80 m.  
Minimum well diameter: 3".

## Motor and pump

-Rewindable motor  
-Three-phase: 350V - 400V/50Hz  
-Single-phase: 180V - 230V/50Hz  
-Equipped with start-up control box or digital auto-control box  
-Pumps are designed by casing stressed  
-NEMA dimension standards  
-Performance curve tolerance according to ISO 9906 annex A

## Outlet diameter

1"

## S3P2 - 10

**S3P:** Stainless steel submersible 3" borehole pump, sand resistant type, POM impeller  
**2:** Rated flow (m<sup>3</sup>/h)  
**10:** Number of impellers

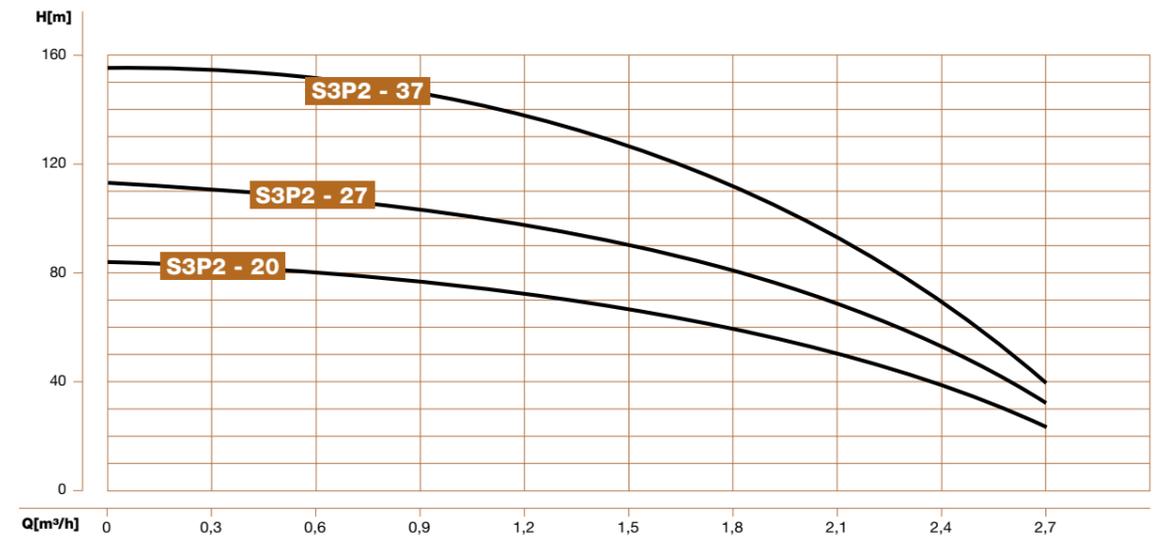


Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Diffuser	Polycarbonate
Impeller	POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	Rubber NBR
Motor extenal casing	AISI 304 SS
Mechanical seal	Special seal for deep well (carbor-sic/tc)
Shaft	AISI 304 SS
Bearing	NSK
Seal lubricant oil	Oil for food machinery and pharmaceutic use.

## Applications

- For water supply from wells or reservoirs.
- For domestic use, for civil and industrial applications.
- For garden use and irrigation.

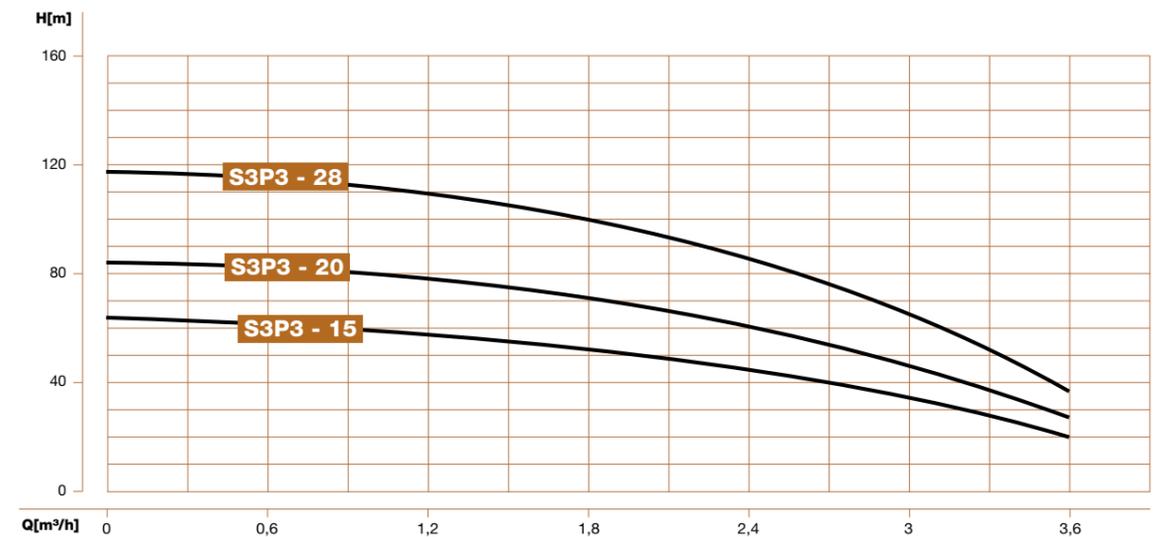
## Performance range



## Performance table

Type	Motor power		Delivery N≈2850r/min										
	KW	H	Q (m <sup>3</sup> /h)	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
S3P2-20	0.55	0.75	H(m)	84	82	78	76	72	66	58	48	36	20
S3P2-27	0.75	1		113	111	105	102	97	89	79	65	48	27
S3P2-37	1.1	1.5		155	152	144	140	133	122	107	89	66	37

## Performance range



## Performance table

Type	Motor power		Delivery N≈2850r/min													
	KW	H	Q (m <sup>3</sup> /h)	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	2.4	2.7	2.7
S3P3-15	0.55	0.75	H(m)	63	62	61	60	58	56	53	50	46	41	35	27	20
S3P3-20	0.75	1		84	83	82	80	78	74	71	67	61	54	46	37	27
S3P3-28	1.1	1.5		117	116	114	112	109	104	100	93	86	76	65	51	37

# S3.5P

50Hz 3.5"  
Submersible  
Multistage

## Operating conditions

Maximum fluid temperature up to +35 °C  
Maximum sand content: 150 gr/m<sup>3</sup>  
Maximum immersion: 120 m.  
Minimum well diameter: 3.5".

## Motor and pump

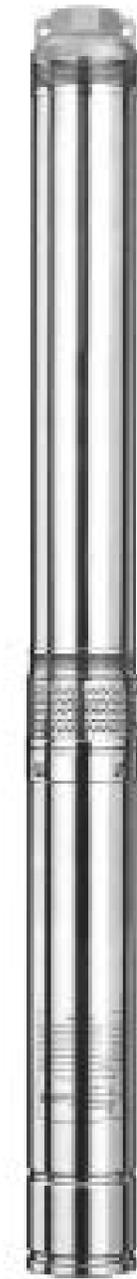
–Rewindable motor  
–Three-phase: 350 V - 415 V/50 Hz  
–Single-phase: 150 V - 240 V/50 Hz  
–Equipped with start-up control box

## Outlet diameter

1 1/4"

**S3.5P:** Stainless Steel submersible 3,5" borehole pump, sand-resistant type, POM impeller

**2:** Rated flow (m<sup>3</sup>/h)  
**9:** Number of impeller

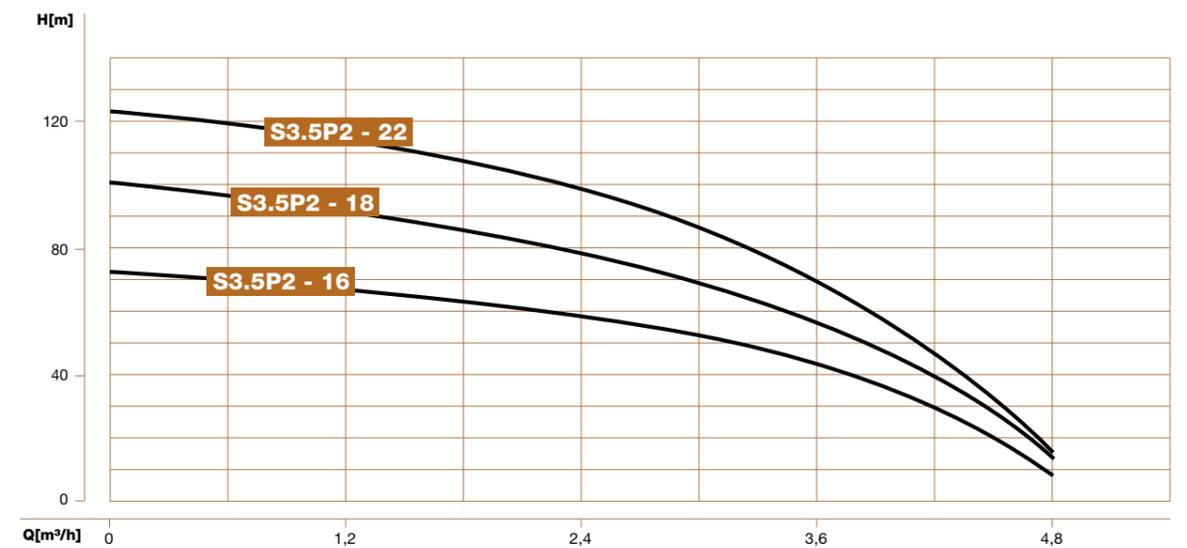


Components	Material
Pump casing	AISI 304 SS / 201 SS
Outlets	Cast-Cu
Inlets	Cast-Cu
Strainer	AISI 304 SS
Diffuser	Polycarbonate
Impeller	POM
Pump shaft	AISI 304 SS / 201 SS
Shaft coupling	AISI 304 SS / 201 SS
Motor casing	AISI 304 SS / 201 SS
Top chock	Cast-Cu / Cast-Iron
Mechanical seal	Graphite-Ceramic / TC
Motor shaft	AISI 304 SS
Bearing	NSK / C&U
Seal lubricant oil	10# White oil

## Applications

- For water supply from wells or reservoirs.
- For domestic use, for civil and industrial applications.
- For garden use and irrigation.

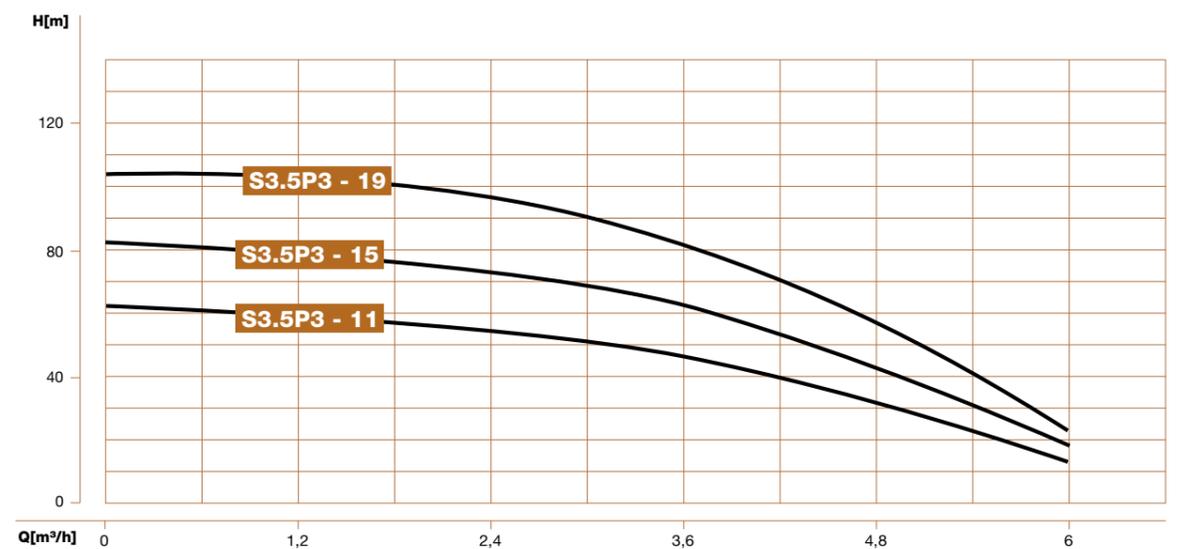
## Performance range



## Performance table

Type	Motor power		Q (m <sup>3</sup> /h) l./min	Delivery N≈2850r/min										
	KW	H		0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8		
Three Phase/ Single Phase				0	10	20	30	40	50	60	70	80		
S3.5P2-13	0.55	0.75	H(m)	73	70	66	64	57	52	44	29	9		
S3.5P2-18	0.95	1.3		101	97	92	89	79	68	57	40	13		
S3.5P2-22	1.1	1.5		123	119	112	109	97	83	70	48	15		

## Performance range

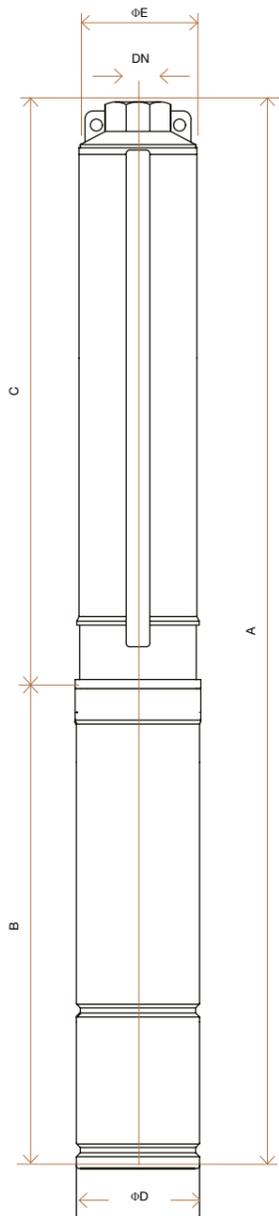


## Performance table

Type	Motor power		Q (m <sup>3</sup> /h)	Delivery N≈2850r/min											
	KW	H		0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	
Three Phase/ Single Phase				0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0	
S3.5P3-11	0.55	0.75	H(m)	62	61	59	58	54	50	45	40	33	22	13	
S3.5P3-15	0.95	1.3		82	81	79	78	74	68	62	55	45	30	18	
S3.5P3-19	1.1	1.5		103	102	100	100	93	87	78	70	57	38	23	

# S3P 50Hz 3"

## Installation dimension

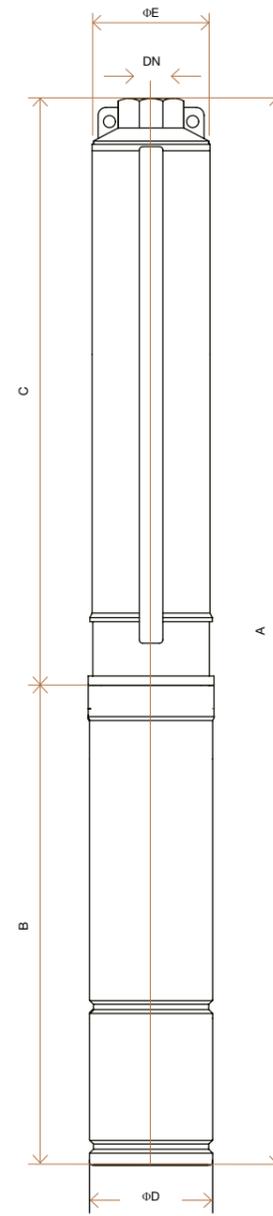


Model	Size (mm)						Weight (kg)	
	A	B	C	DN	ΦE	ΦD	Pump with motor	Controller
S3P2-20	1093	407	686	1"	69	72	10.3	0.75
S3P2-27	1324	458	866	1"	69	72	12.5	0.75
S3P2-37	1636	523	1113	1"	69	72	15.2	0.75

Model	Size (mm)						Weight (kg)	
	A	B	C	DN	ΦE	ΦD	Pump with motor	Controller
S3P3-15	1037	407	630	1"	69	72	10.1	0.75
S3P3-20	1219	458	761	1"	69	72	12.1	0.75
S3P3-28	1516	523	993	1"	69	72	14.7	0.75

# S3.5P 50Hz 3,5"

## Installation dimension



Model	Size (mm)						Weight (kg)	
	A	B	C	DN	ΦE	ΦD	Pump with motor	Controller
S3.5P2-13	1011	400	611	1.5"	90	88	16	0.75
S3.5P2-18	1185	435	750	1.5"	90	88	18	0.75
S3.5P2-22	1382	486	896	1.5"	90	88	24	0.75

Model	Size (mm)						Weight (kg)	
	A	B	C	DN	ΦE	ΦD	Pump with motor	Controller
S3.5P3-11	978	400	578	1.5"	90	88	15	0.75
S3.5P3-15	1179	435	744	1.5"	90	88	17.4	0.75
S3.5P3-19	1361	486	875	1.5"	90	88	19	0.75



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subject to amendments

# BE PUMPING PARTNERS

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