

hydroo[®]

SDR00 SERIES

S3P

S3.5P

S4P

50Hz

**Deep-Well
Submersible
Pump 3"-3.5"-4"**



PRODUCTS

Presentation	03
3” S3P	04
3.5” S3.5P	07
4” S4P	10
3” S3P	18
3” S3.5P	19
4” S4P	20
4” HYA4	23
4” HY04	25

PRESENTATION

HYDROO has set up a worldwide distribution network with key partners and is providing value to pump engineers and end users. We have an extensive pump portfolio with high -end solutions for many applications, including water-supply booster sets, fire-fighting equipment, borehole, HVAC, drainage and sewage, utilities, irrigation, desalination and RO equipment, and OEM integration, among many others. We provide solutions for all markets for 50 Hz and 60 Hz, including customized versions.

HYDROO has a factory in Palol de Revardit (Catalonia- Spain). It’s been sized to guarantee our reliable, long-term, personalized manner and offer the best service to all our customers. We provide a wide range of products in an extremely short delivery time, thanks to our Lean manufacturing processes and our qualified professional and enthusiastic team.

Our commitment to ethics and legislation in relation to third parties is compiled in a public document of principles. The document has been agreed upon by the entire Hydroo team and its implementation is being co-ordinated by a committee to ensure the compliance and strengthening of the corporate culture in the whole company.

The expansion of Hydroo is based on excellence in operations and a successful business relationship with partners. Therefore, we face a strong growth in the target market. We are fully audited by SGS for ISO9001 and ISO14000 standards annually.

At HYDROO, we are committed to providing excellent service to our valued pump partners.

S3P
50Hz 3”
Submersible
Multistage
Technical Data

Applications

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

Operating conditions

Maximum fluid temperature up to +35°C.
Maximum sand content: 0.25%.
Maximum immersion: 80m.
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 99906 annex A

Outlet diameter

1”

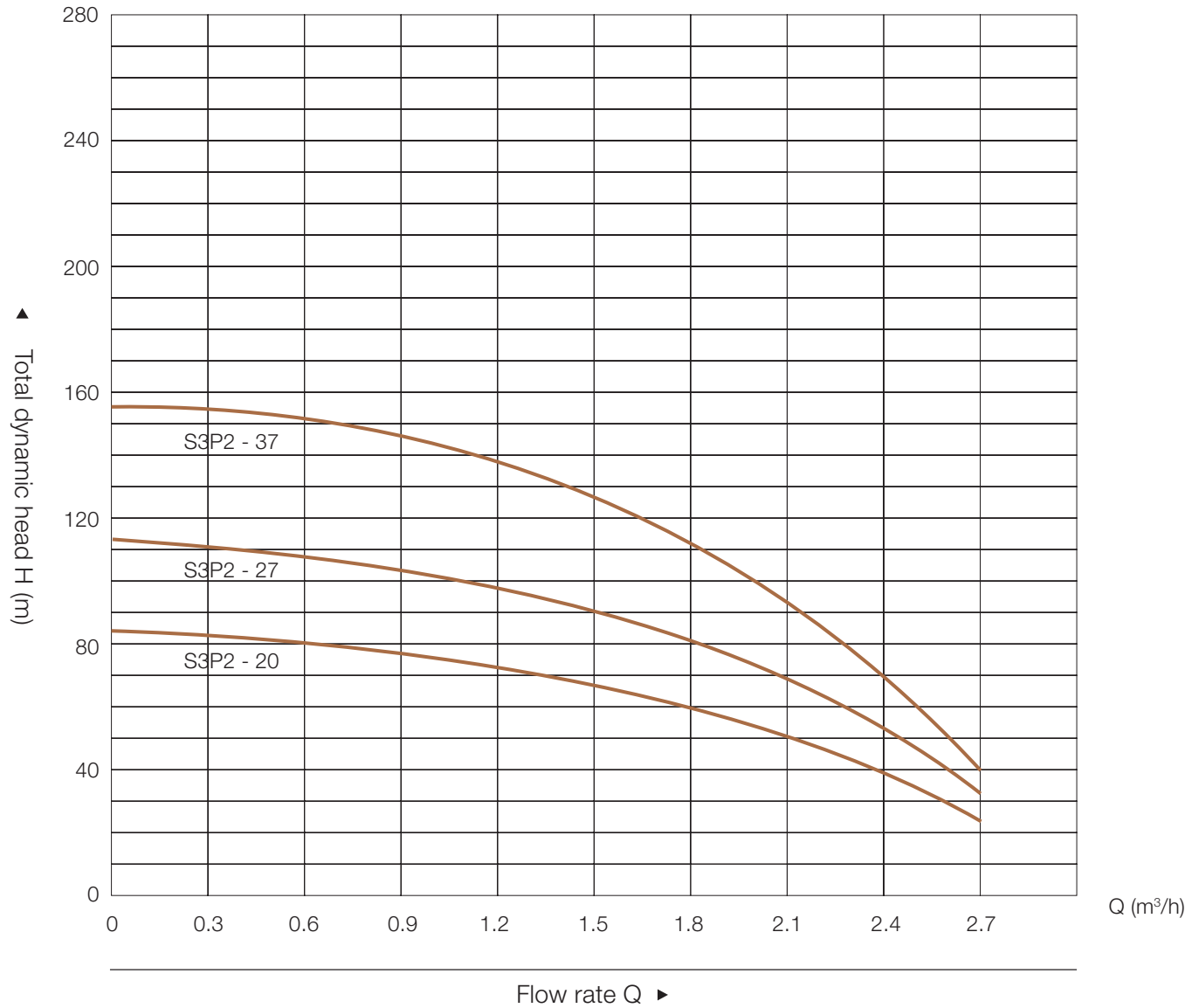
S3P2 - 10

S3P: Stainless steel submersible 3” borehole pump, sand resistant type, POM impeller
2: Rated flow (m³/h)
10: Number of impellers

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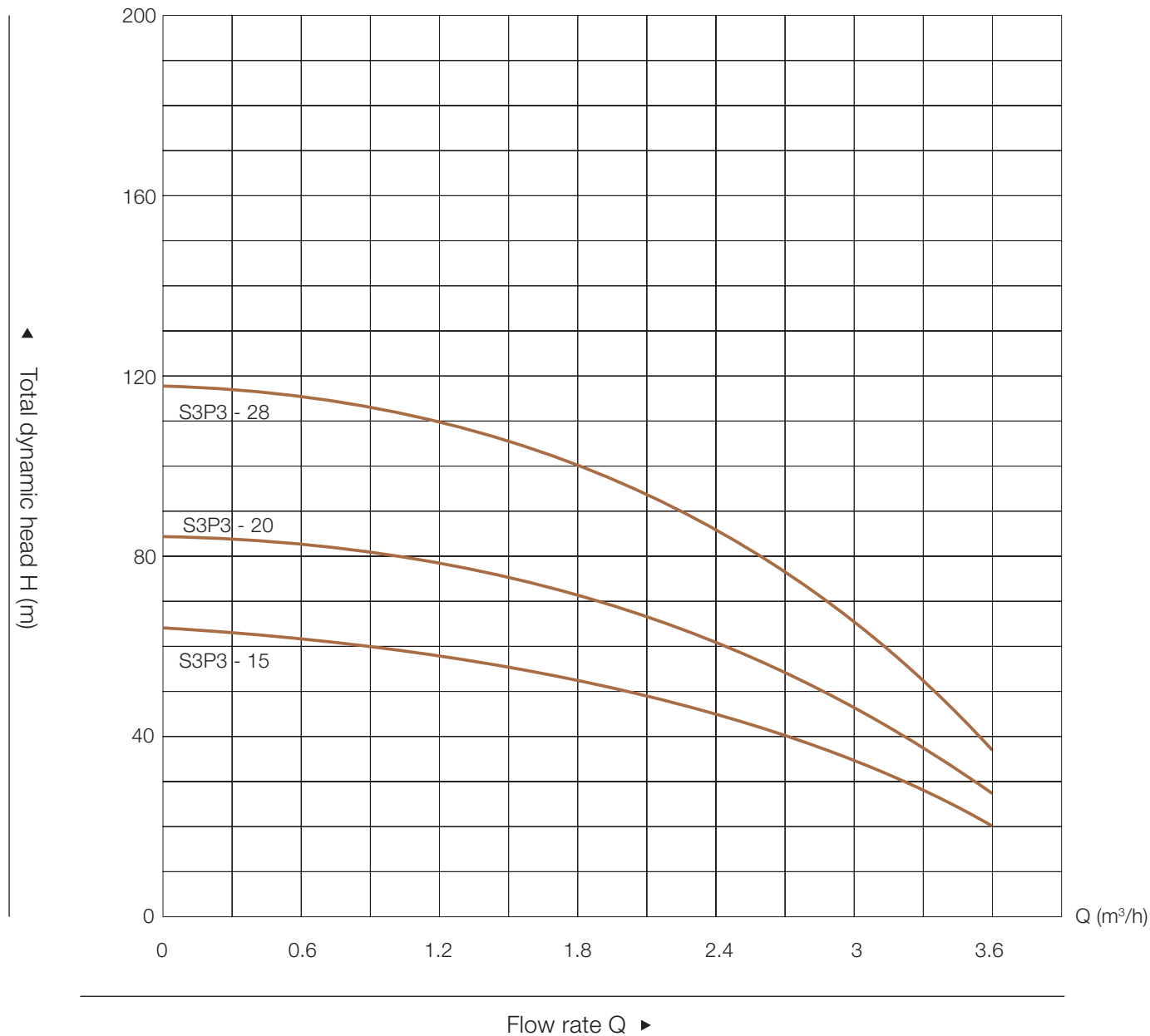


Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Diffuser	Polycarbonate
Impeller	POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	Rubber NBR
Motor extenal casing	AISI 304 SS
Mechanical seal	Special seal for deep well (carbor-sic/tc)
Shaft	AISI 304 SS
Bearing	NSK
Seal lubricant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



Performance table

Type	Motor power		Delivery N≈2850r/min										
Three Phase/ Single Phase	KW	H	Q(m³/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 table

Type	Motor power		Delivery N≈2850r/min													
Three Phase / Single Phase	KW	H	Q(m³/h)	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3	3.3	3.6
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

Tecnical Data

Applications

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

Operating conditions

Maximum fluid temperature up to +35°C
Maximum sand content: 3%
Maximum immersion: 120m.
Minimum well diameter: 3.5”

Motor and pump

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

Outlet diameter

1 1/4”

S3.5P2 - 9

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

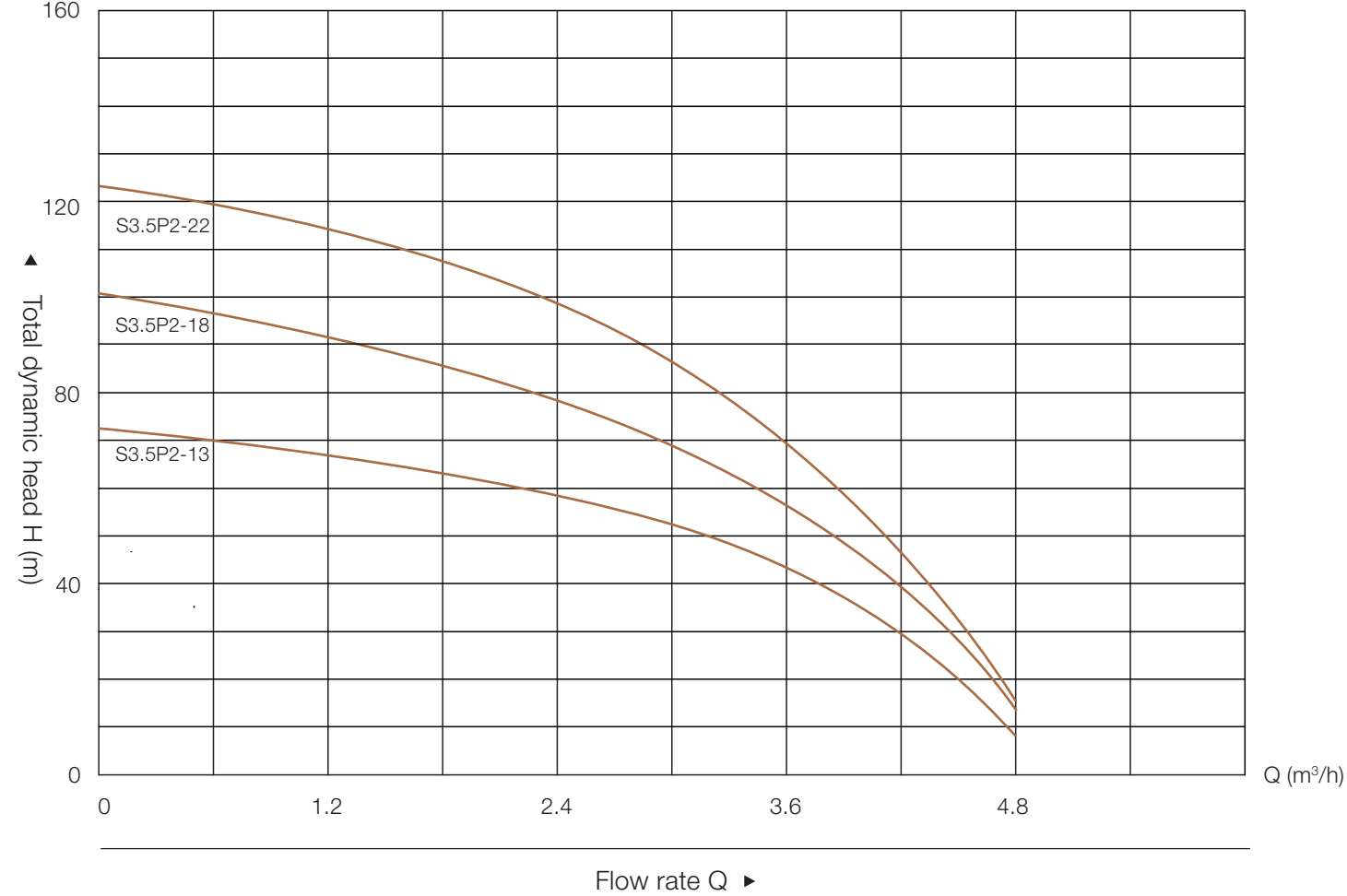
2: Rated flow (m3/h)

9: Number of impeller

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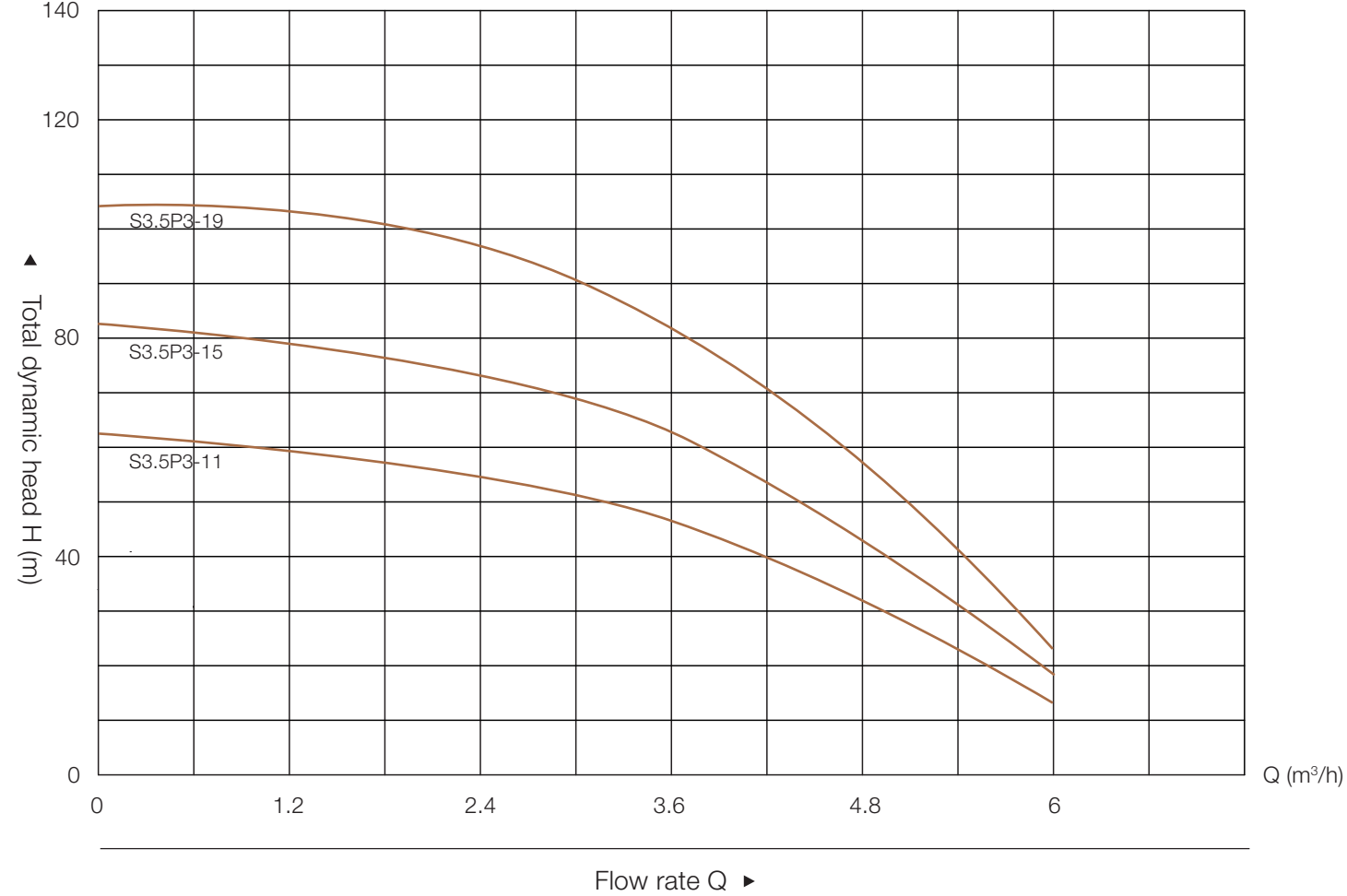


Components	Material
Pump casing	AISI 304 SS / 201 SS
Outlets	Cast-Cu
Inlets	Cast-Cu
Strainer	AISI 304 SS
Diffuser	Polycarbonate
Impeller	POM
Pump shaft	AISI 304 SS / 201 SS
Shaft coupling	AISI 304 SS / 201 SS
Motor casing	AISI 304 SS / 201 SS
Top chock	Cast-Cu / Cast-Iron
Mechanical seal	Graphite-Ceramic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



Performance table

Type	Motor power		Delivery N≈2850r/min									
Three Phase/ Single Phase	KW	HP	Q(m³/h) l./min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
				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 table

Type	Motor power		Delivery N≈2850r/min											
Three Phase/ Single Phase	KW	HP	Q(m³/h) l./min	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
				0	10	20	30	40	50	60	70	80	90	100
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

S4P 50Hz 4” Submersible Multistage

Tecnical Data

Applications

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

Operating conditions

Maximum fluid temperature up to +35°C
Maximum sand content: 1%
Maximum immersion: 80m. (S4P16 up to 120m.)
Minimum well diameter: 4”

Motor and pump

- Rewindable motor
- Three-phase: 350V-400V/50Hz
- Single-phase: 180V-230V/50Hz
- Equipped with start-up control box

Outlet diameter

S4P2, S4P3, S4P4: 1 1/4”
S4P6, S4P8, S4P10, S4P16: 2”

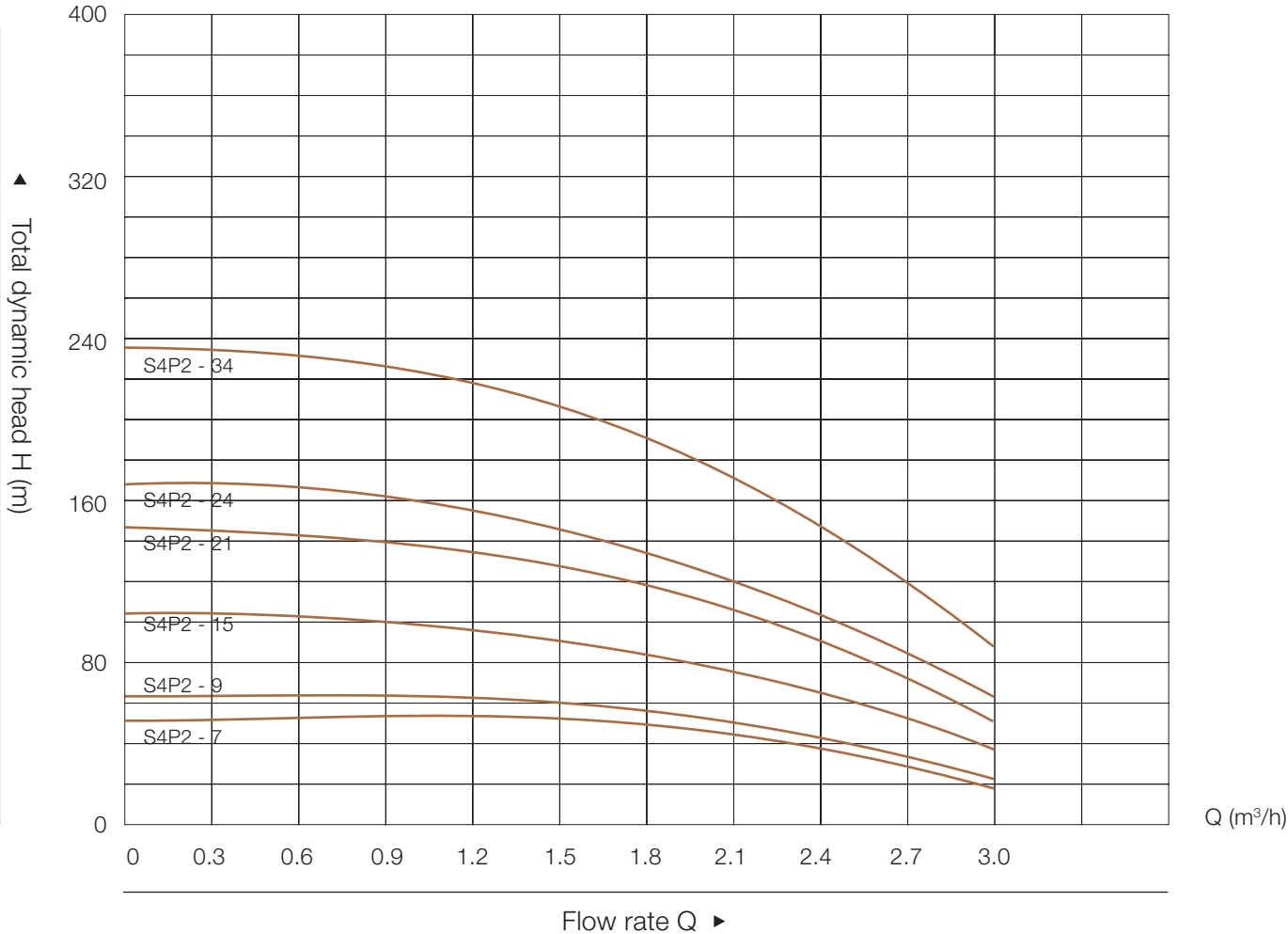
S4P2 - 7

- S4P:** Stainless steel submersible 4” borehole pump, sand-resistant type, POM impeller
- 2:** Rated flow (m³/h)
- 7:** Number of impellers

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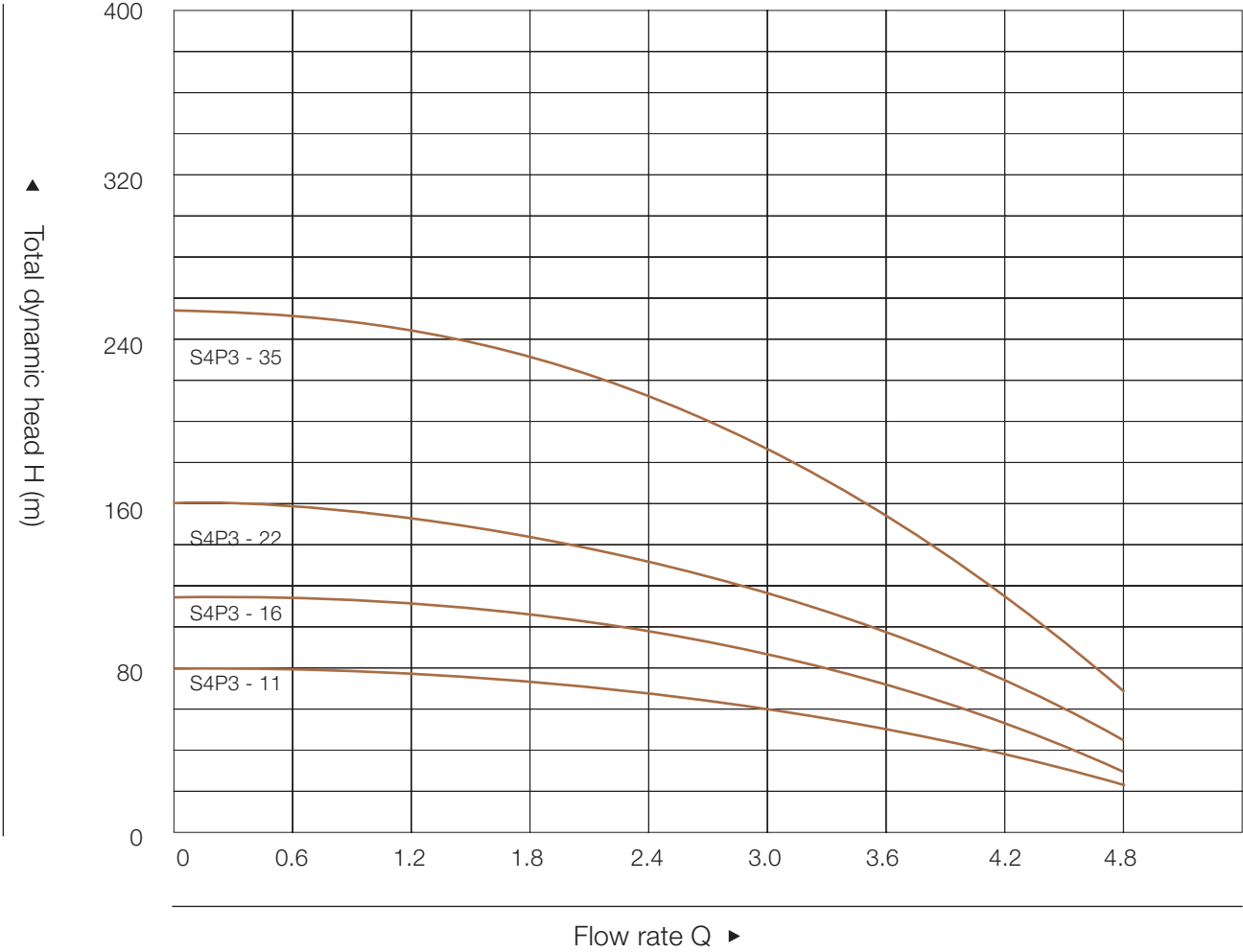


Components	Material
Delivery casing	AISI 304 SS
Strainer	AISI 304 SS
Diffuser	Polycarbonate
Impeller	POM
Shaft	AISI 304 SS
Shaft coupling	AISI 304 SS
Wear ring	Rubber
Motor extenal casing	AISI 304 SS
Mechanical seal	Special seal for deep well (carbor-sic/tc)
Shaft	AISI 304 SS
Bearing	NSK
Seal lubricant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



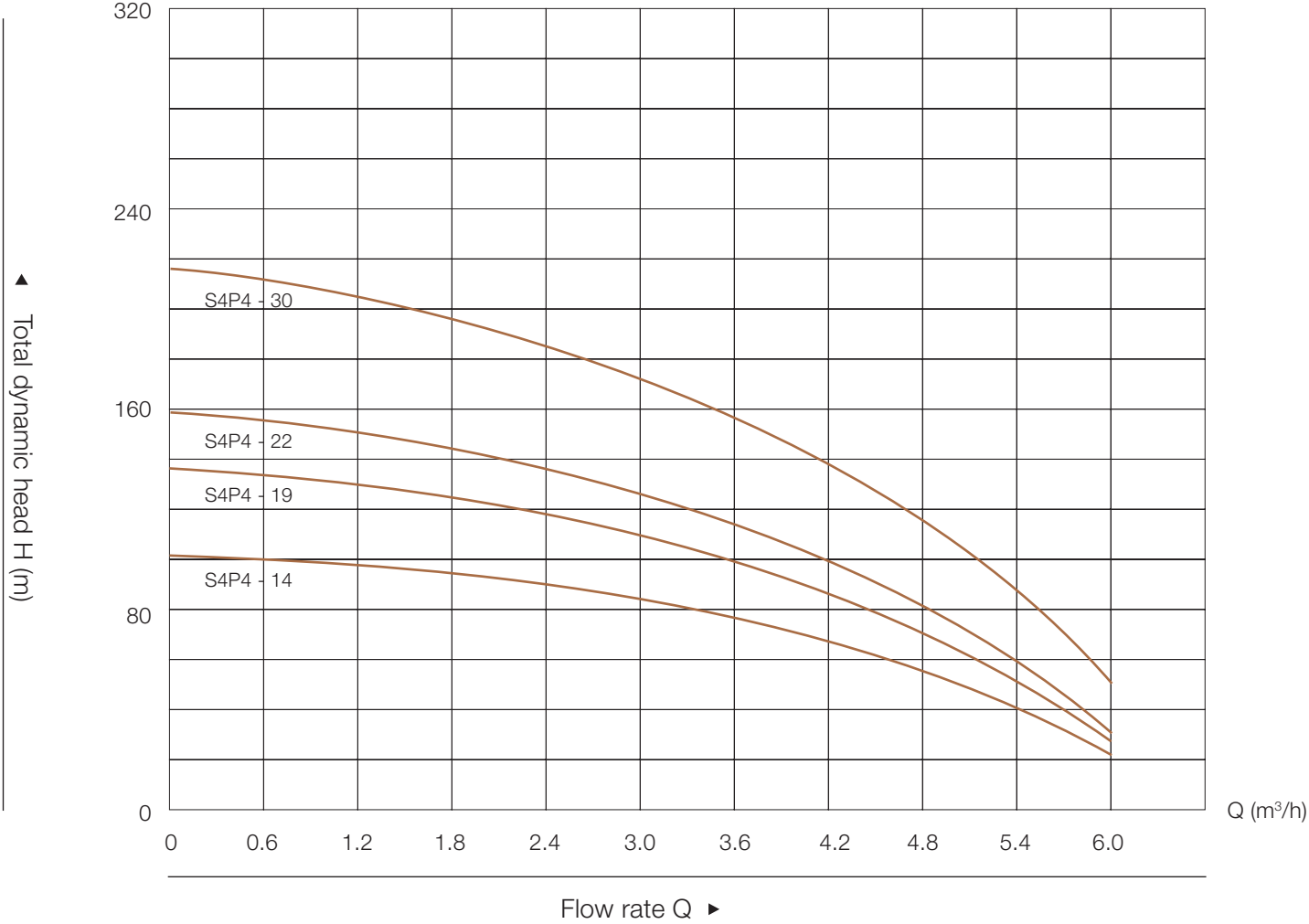
Performance table

Type	Motor power		Delivery N≈2850r/min											
Three Phase / Single Phase	KW	H	Q(m³/h)	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
S4P2-7	0.37	0.5	H(m)	49	49	48	48	46	44	42	39	34	29	24
S4P2-9	0.55	0.75		63	63	62	61	59	57	54	50	44	37	30
S4P2-15	0.75	1		105	104	103	102	99	95	90	83	73	62	50
S4P2-21	1.1	1.5		147	146	145	143	138	133	126	116	103	87	71
S4P2-24	1.5	2		168	167	165	163	158	152	144	132	117	100	81
S4P2-34	2.2	3		238	236	234	231	224	215	203	188	166	141	114



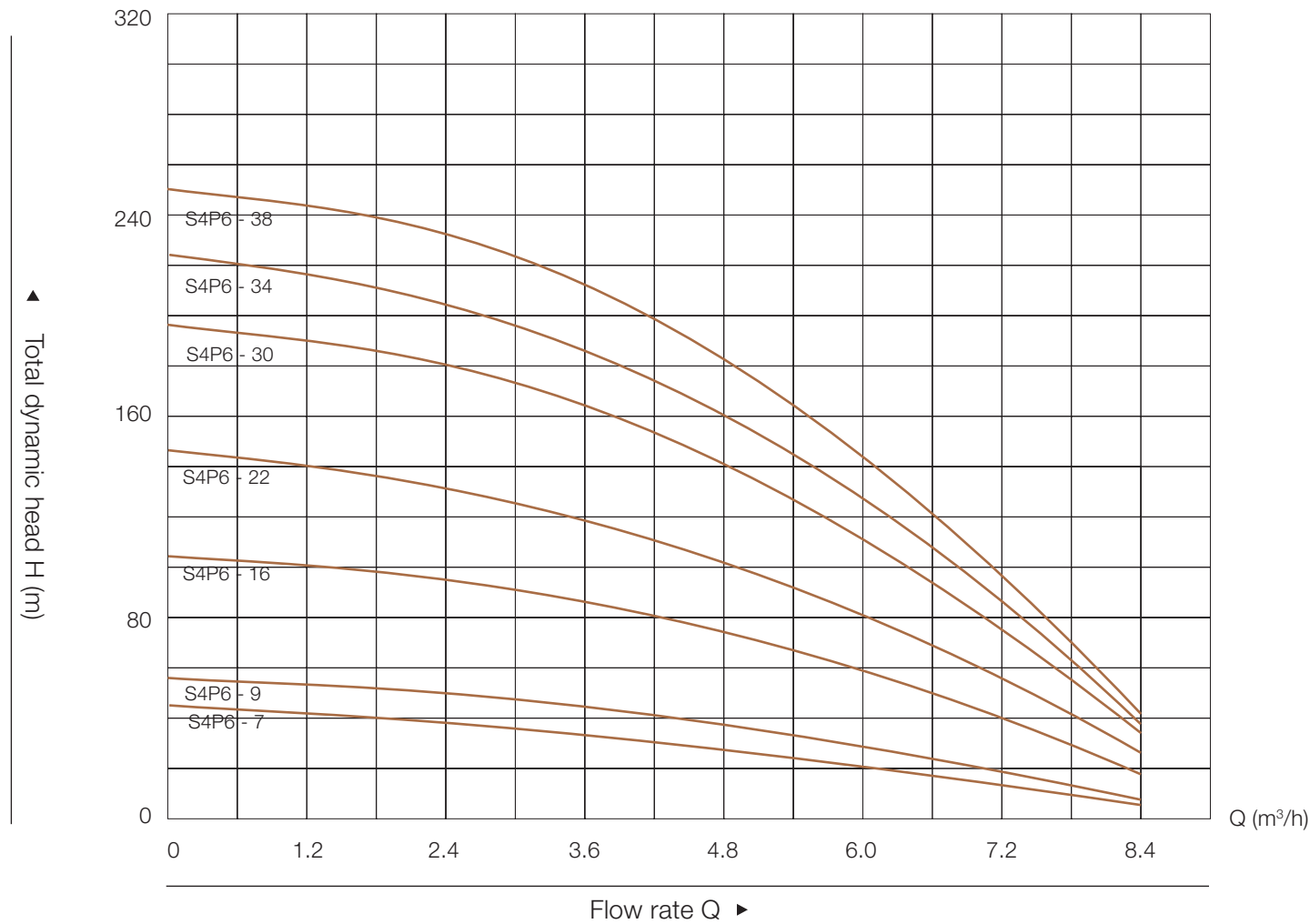
Performance table

Type	Motor power		Delivery N≈2850r/min									
Three Phase / Single Phase	KW	H	Q(m³/h)	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8
S4P3-11	0.75	1	H(m)	80	78	76	73	68	60	49	36	22
S4P3-16	1.1	1.5		116	114	111	107	99	88	72	53	32
S4P3-22	1.5	2		160	157	153	147	137	121	99	73	44
S4P3-35	3	4		255	250	243	233	217	192	157	116	70



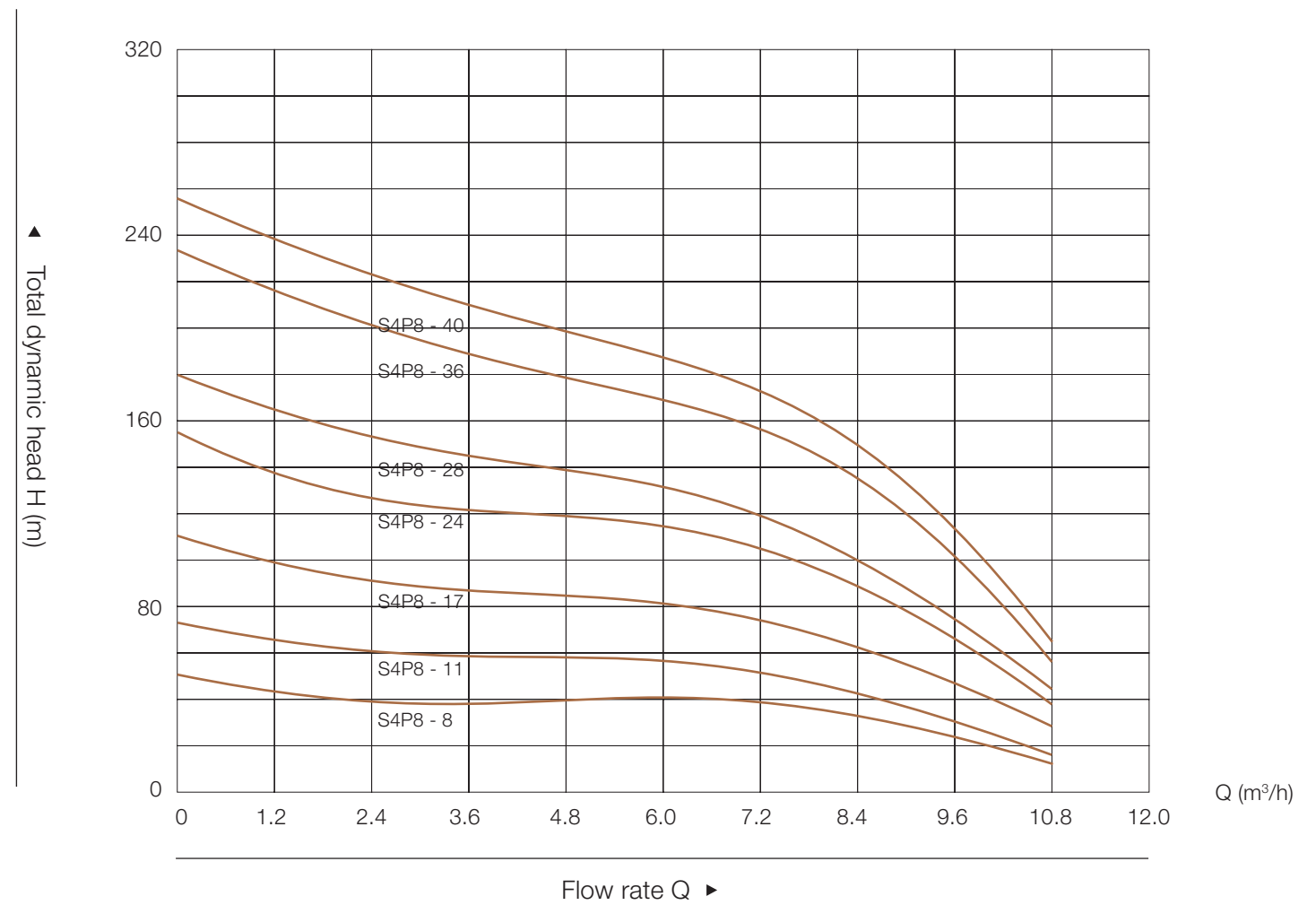
Performance table

Type	Motor power		Delivery N≈2850r/min											
Three Phase / Single Phase	KW	H	Q(m³/h)	0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
S4P4-14	1.1	1.5	H(m)	101	97	94	91	87	82	74	64	51	37	22
S4P4-19	1.5	2		137	132	127	124	118	111	100	87	70	51	30
S4P4-22	2.2	3		159	153	147	143	137	128	116	100	81	59	34
S4P4-30	3	4		217	208	201	195	187	175	158	137	110	80	47



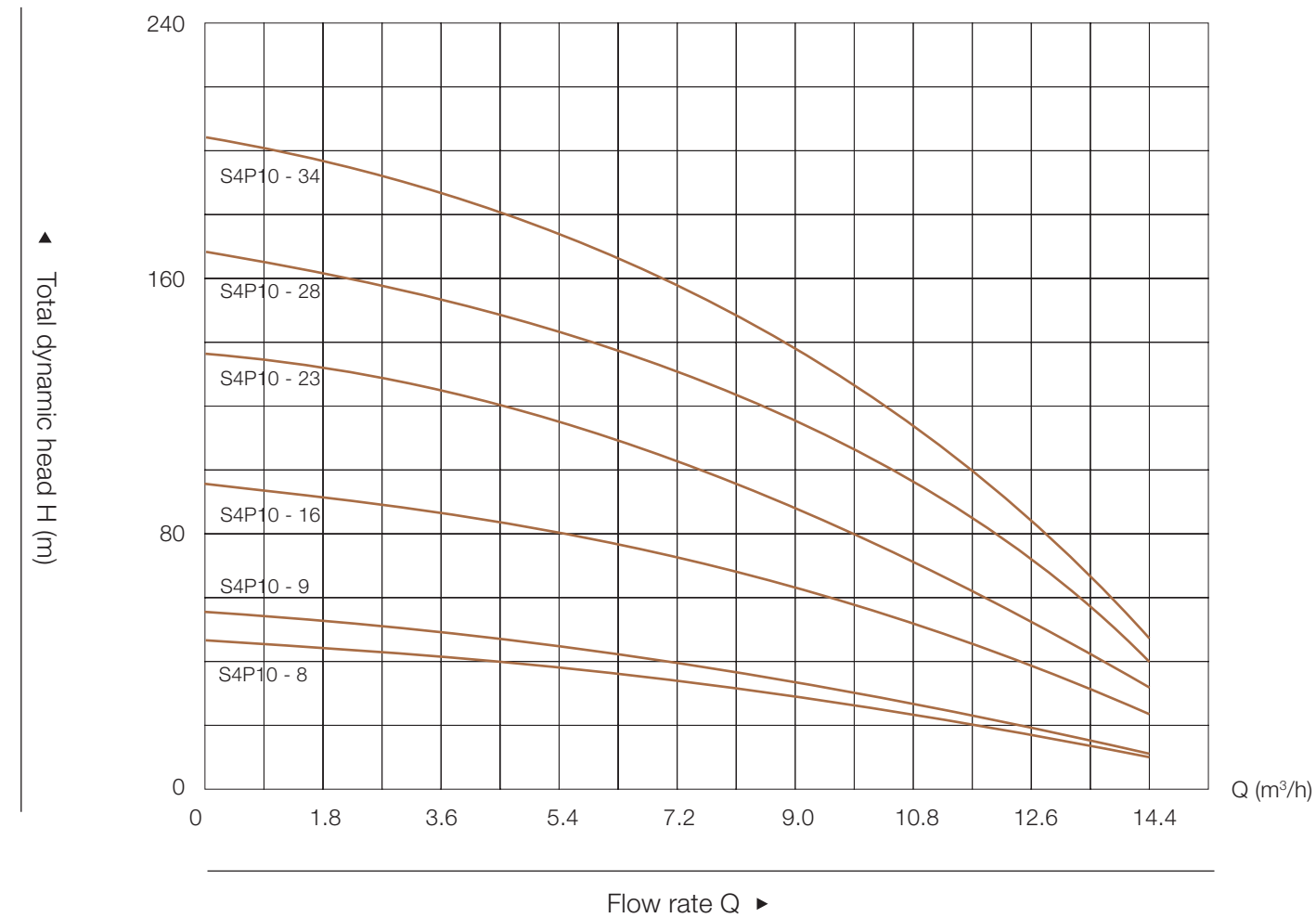
Performance table

Type	Motor power		Delivery N≈2850r/min								
Three Phase / Single Phase	KW	H	Q(m³/h)	0	1.2	2.4	3.6	4.8	6.0	7.2	8.4
S4P6-7	0.75	1	H(m)	46	43	40	37	33	26	18	8
S4P6-9	0.75	1		59	56	51	47	42	33	23	10
S4P6-16	1.5	2		105	99	91	84	75	59	40	18
S4P6-22	2.2	3		144	136	126	116	104	82	55	25
S4P6-30	3	4		197	186	171	158	141	111	75	34
S4P6-34	4	5.5		223	211	194	179	160	126	85	38
S4P6-38	4	5.5		249	236	217	200	179	141	95	43



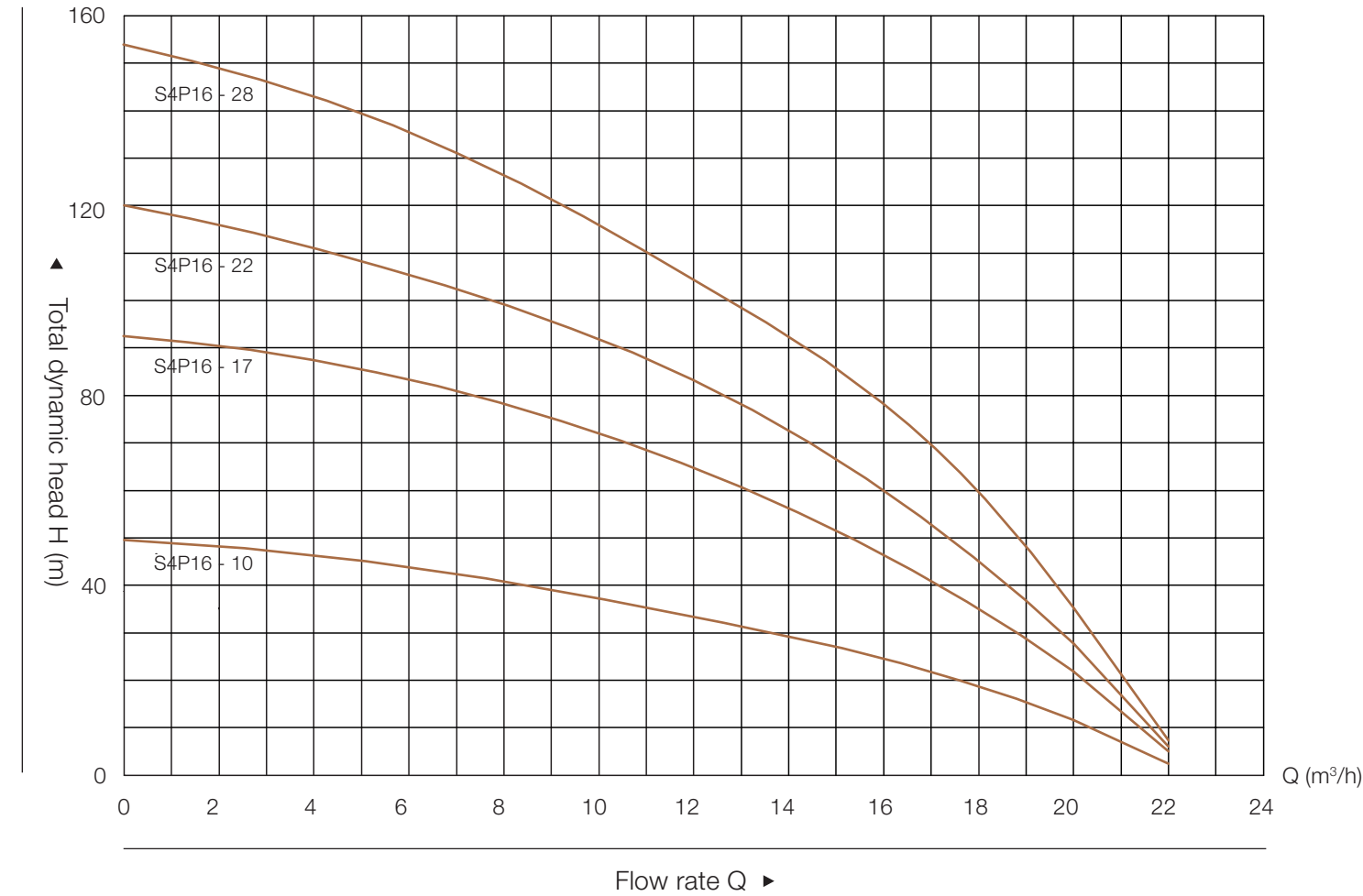
Performance table

Type	Motor power		Delivery N≈2850r/min										
Three Phase / Single Phase	KW	H	Q(m³/h)	0	1.2	2..4	3.6	4.8	6.0	7.2	8.4	9.6	10.8
S4P8-8	1.1	1.5	H(m)	52	48	45	42	40	37	34	28	21	13
S4P8-11	1.5	2		71	66	62	58	55	51	47	39	29	18
S4P8-17	2.2	3		109	103	96	90	84	79	72	61	45	28
S4P8-24	3	4		155	145	135	127	119	112	101	85	63	39
S4P8-28	4	5.5		180	169	158	148	139	131	118	100	73	45
S4P8-36	5.5	7.5		232	218	203	191	179	168	152	128	94	58
S4P8-40	5.5	7.5		258	242	225	212	198	187	169	143	105	65



Performance table

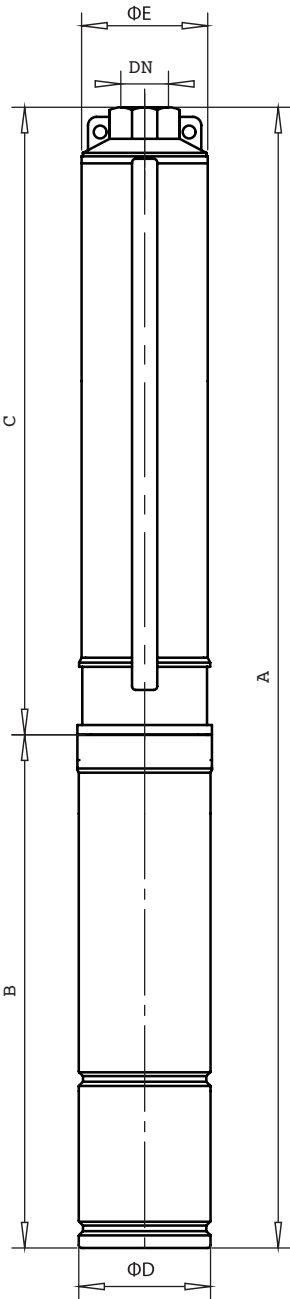
Type	Motor power		Delivery N≈2850r/min										
Three Phase / Single Phase	KW	H	Q(m³/h)	0	1.8	3.6	5.4	7.2	9.0	10.8	12.6	14.4	
S4P10-8	1.5	2	H(m)	48	46	44	40	37	32	27	20	12	
S4P10-9	1.5	2		54	51	49	46	42	37	30	22	13	
S4P10-16	3	4		96	91	87	81	75	65	54	40	23	
S4P10-23	4	5.5		138	121	125	116	108	93	77	57	33	
S4P10-28	5.5	7.5		168	160	152	142	131	114	94	70	40	
S4P10-34	7.5	10		204	194	185	172	159	138	114	85	49	



Performance table

Type	Motor power		Delivery N≈2850r/min											
Three Phase / Single Phase	KW	H	Q(m³/h)	0	6	8	10	12	14	16	18	20	21	22
S4P16-10	2.2	3	H(m)	49	44	40	37	34	30	25	19	11	7	1
S4P16-17	4	5.5		92	82	75	69	64	57	47	35	21	13	3
S4P16-22	5.5	7.5		120	106	98	89	83	74	61	45	27	16	4
S4P16-28	7.5	10		153	136	125	114	105	95	78	58	34	21	6

S3P
50Hz 3”
Installation
dimension

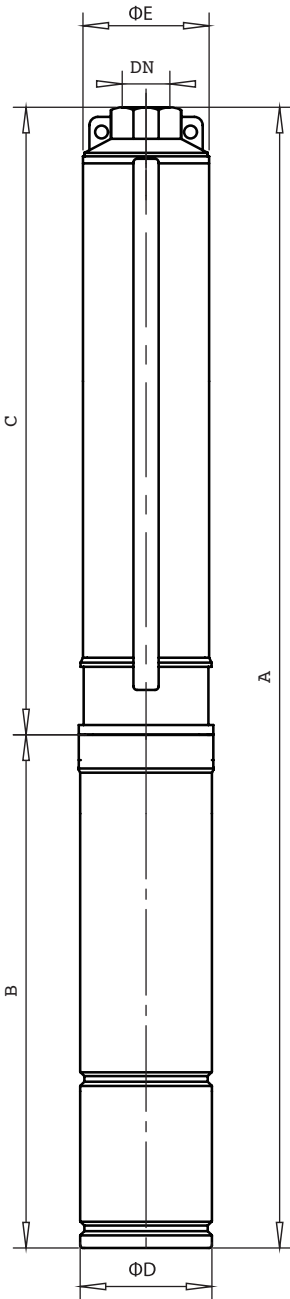


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Model	Size (mm)						Weight (kg)	
	A	B	C	DN	ΦE	ΦD	Pump with motor	Controller
S3P2-20	1093	407	686	1"	69	72	10.3	0.75
S3P2-27	1324	458	866	1"	69	72	12.5	0.75
S3P2-37	1636	523	1113	1"	69	72	15.2	0.75

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

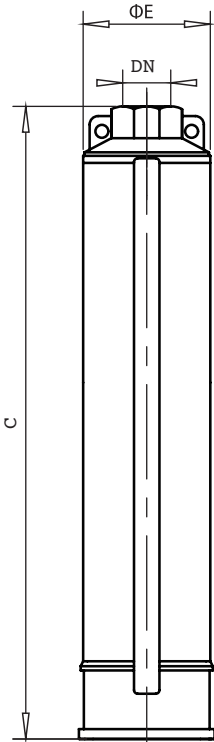


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Model	Size (mm)						Weight (kg)	
	A	B	C	DN	ΦE	ΦD	Pump with motor	Controller
S3.5P2-13	1011	400	611	1.5"	90	88	16	0.75
S3.5P2-18	1185	435	750	1.5"	90	88	18	0.75
S3.5P2-22	1382	486	896	1.5"	90	88	24	0.75

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

S4P
50Hz 4”
Installation
dimension

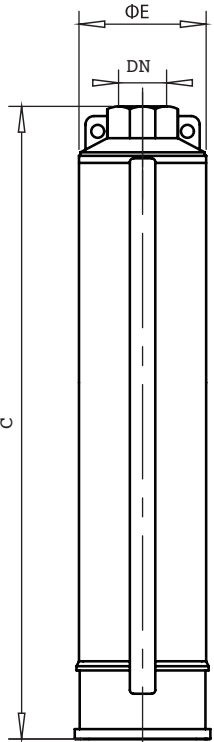


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Model	Size (mm)			Weight (kg)
	C	DN	ΦE	Pump
S4P2-7	387	1.25"	90	4.25
S4P2-9	437	1.25"	90	5.3
S4P2-11	487	1.25"	90	6.7
S4P2-15	623	1.25"	90	7.15
S4P2-21	808	1.25"	90	8.3
S4P2-24	882	1.25"	90	9.05
S4P2-34	1167	1.25"	90	12.2

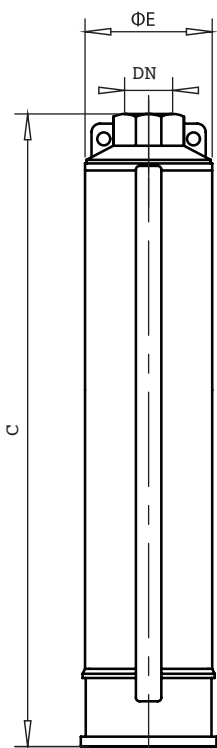
Model	Size (mm)			Weight (kg)
	C	DN	ΦE	Pump
S4P3-11	487	1.25"	90	6.5
S4P3-16	648	1.25"	90	7
S4P3-22	833	1.25"	90	9.85
S4P3-35	1192	1.25"	90	14.9

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Model	Size (mm)			Weight (kg)
	C	DN	ΦE	Pump
S4P4-14	656	1.25"	90	6.9
S4P4-19	839	1.25"	90	9.75
S4P4-22	926	1.25"	90	10
S4P4-30	1194	1.25"	90	14.5

Model	Size (mm)			Weight (kg)
	C	DN	ΦE	Pump
S4P6-7	453	2.0"	90	6.3
S4P6-9	516	2.0"	90	6.5
S4P6-16	773	2.0"	90	9.15
S4P6-22	997	2.0"	90	10.4
S4P6-30	1284	2.0"	90	15.1
S4P6-34	1409	2.0"	90	15.3
S4P6-38	1571	2.0"	90	15.5



Model	Size (mm)			Weight (kg)
	C	DN	ΦE	Pump
S4P8-8	533	2.0"	90	6.5
S4P8-11	682	2.0"	90	7.15
S4P8-17	906	2.0"	90	9.6
S4P8-24	1204	2.0"	90	14.2
S4P8-28	1389	2.0"	90	14.5
S4P8-36	1688	2.0"	90	15
S4P8-40	1873	2.0"	90	16.35

Model	Size (mm)			Weight (kg)
	C	DN	ΦE	Pump
S4P10-8	533	2.0"	90	7.5
S4P10-9	571	2.0"	90	8.9
S4P10-16	869	2.0"	90	11.8
S4P10-23	1166	2.0"	90	12.6
S4P10-28	1389	2.0"	90	13
S4P10-34	1613	2.0"	90	14.15

Model	Size (mm)			Weight (kg)
	C	DN	ΦE	Pump
S4P16-10	952	2.0"	90	13.8
S4P16-17	1434	2.0"	90	15
S4P16-22	1778	2.0"	90	16.7
S4P16-28	2192	2.0"	90	19.55

HYA4

4" Water cooled
Submersible motors
Canned type



Motors designed to work in 4" or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electrical features.

All parts in contact with water are in AISI 304 stainless steel which ensures resistance to corrosion even in the most extreme conditions of use.

Product features

Stator:
With 24 slots, specifically developed to achieve maximum electrical performance. Airtight sealed and resin encapsulated. A solution which ensures excellent heat exchange and extremely high mechanical resistance with high pressure, something typical of very deep immersions.

Removable Power Cable-Connector:
It ensures perfect sealing in the most critical conditions and it aids maintenance operations. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

Filling Liquid:
Mixture of water and propylene glycol to ensure adequate lubrication of the thrust bearing system together with the ability to lower the freezing point when stored in very cold places.

Vanne liquide de restauration :
It allows water in to restore internal level.

Shaft:
Carbon-steel alloys in the rotor area, to foster electrical features. AISI 304 stainless steel projection. DUPLEX, a special type of stainless steel, replaces AISI 304 in motors bigger than 3Hp. This steel combines excellent resistance to corrosion and high mechanical resistance, which is necessary where static torque becomes really important.

Thrust Bearing System:
Kingsbury-type with stainless steel thrust bearing runners oscillating on a self-aligning system. A specific runner lapping process makes this system extremely reliable and efficient.

100% Tested:
All motors are tested at the end of the line.

SINGLE PHASE SUBMERSIBLE MOTORS 50HZ 230V WATER COOLED

Type	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [μF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Lenght [m]
HYA4-037S230	0,5	0,37	230	1	3,5	12,5	2860	0,88	52	20	2000	237	6,8	4 x 1,5	1,7
HYA4-055S230	0,75	0,55	230	1	4,8	17,2	2855	0,88	57	25	2000	257	7,9	4 x 1,5	1,7
HYA4-075S230	1	0,75	230	1	5,7	19,7	2840	0,91	63	35	2000	272	9,1	4 x 1,5	1,7
HYA4-110S230	1,5	1,1	230	1	8,2	27,2	2845	0,91	64	40	2000	297	11,2	4 x 1,5	1,7
HYA4-150S230	2	1,5	230	1	10,5	36,4	2840	0,92	68	50	3000	332	13,4	4 x 1,5	1,7
HYA4-220S230	3	2,2	230	1	15,2	48,9	2840	0,91	69	70	3000	387	14,2	4 x 1,5	1,7
HYA4-370S230	5	3,7	230	1	25	98,8	2845	0,95	68	90	6500	634	27,8	4 x 2	2,7

THREE PHASE SUBMERSIBLE MOTORS 50HZ 230V WATER COOLED

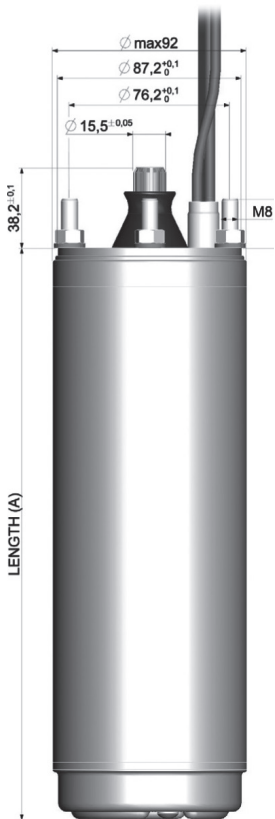
Type	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [μF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Lenght [m]
HYA4-037T230	0,5	0,37	230	3	2,3	9,3	2855	0,57	71	-	2000	212	5,8	4 x 1,5	1,7
HYA4-055T230	0,75	0,55	230	3	2,8	14,0	2855	0,65	76	-	2000	237	6,8	4 x 1,5	1,7
HYA4-075T230	1	0,75	230	3	3,4	16,1	2850	0,72	77	-	2000	257	7,9	4 x 1,5	1,7
HYA4-110T230	1,5	1,1	230	3	5	26,0	2820	0,77	72	-	2000	272	9,1	4 x 1,5	1,7
HYA4-150T230	2	1,5	230	3	6,6	28,6	2835	0,80	71	-	3000	297	11,2	4 x 1,5	1,7
HYA4-220T230	3	2,2	230	3	9,8	41,1	2835	0,80	70	-	3000	332	13,4	4 x 1,5	1,7
HYA4-300T230	4	3	230	3	13	78,5	2855	0,79	73	-	3000	387	18,9	4 x 1,5	1,7
HYA4-400T230	5,5	4	230	3	17,2	89,4	2845	0,76	77	-	6500	574	23,4	4 x 2	2,7
HYA4-550T230	7,5	5,5	230	3	24,5	113,4	2850	0,76	74	-	6500	634	27,8	4 x 2	2,7

THREE PHASE SUBMERSIBLE MOTORS 50HZ 400V WATER COOLED

Type	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [μF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Lenght [m]
HYA4-037T400	0,5	0,37	400	3	1,4	6,0	2850	0,54	70	-	2000	212	5,8	4 x 1,5	1,7
HYA4-055T400	0,75	0,55	400	3	1,7	8,3	2855	0,62	75	-	2000	237	6,8	4 x 1,5	1,7
HYA4-075T400	1	0,75	400	3	2,1	9,8	2825	0,76	68	-	2000	257	7,9	4 x 1,5	1,7
HYA4-110T400	1,5	1,1	400	3	3,2	16,1	2825	0,68	73	-	2000	272	9,1	4 x 1,5	1,7
HYA4-150T400	2	1,5	400	3	4,1	18,7	2840	0,75	71	-	3000	297	11,2	4 x 1,5	1,7
HYA4-220T400	3	2,2	400	3	5,9	28,1	2830	0,78	69	-	3000	332	13,4	4 x 1,5	1,7
HYA4-300T400	4	3	400	3	7,9	48,4	2850	0,76	72	-	3000	387	18,9	4 x 1,5	1,7
HYA4-400T400	5,5	4	400	3	10,1	51,5	2850	0,74	77	-	6500	574	23,4	4 x 2	2,7
HYA4-550T400	7,5	5,5	400	3	13,9	66,6	2850	0,77	74	-	6500	634	27,8	4 x 2	2,7
HYA4-750T400	10	7,5	400	3	16,9	91,5	2845	0,76	74	-	6500	734	31,4	4 x 2	2,7

TECHNICAL SPECIFICATIONS

Motor/Pump Flange	4” Nema Standard
Degree of protection	IP 68
Insulation Class	F
Voltage tolerance	- 10% / + 10%
Pumped liquid tempe- rature	0°C - 35°C 32°F - 95°F
Min. Cooling Flow	0,1 m/s 0,328 ft/s
Max. Starts / Hour	30
Mounting	Vertical And/Or Horizontal
Max. Immersion Depth	300M
Thrust Load From 0,5 Until 1,5 HP From 3 Until 4 HP From 5,5 Until 10 HP	2000N 3000N 5000N
Single Phase Version: PSC Type (Permanent Split Capacitor)	
Cables, Voltage, Thrust Loads [...] Special Versions Available.	



HY04

4” Rewindable
Oil filled
Submersible motors



hydroo®

Motors designed to work in 4” or wider wells. The use of very high quality Made in Italy materials and our strict tests together with consolidated know how ensure high mechanical resistance and high performing electric features.

All parts in contact with water are in AISI 304 stainless steel.The power cable with removable connector ensures perfect water-tightness.

Product features

External sleeve and bottom:
Made in AISI 304 stainless steel. More specifically, sleeve is made of AISI 304L (Low carbon) to avoid possible corrosions on the welding.

Upper Bracket:
Cast iron with cataphoresis treatment and protected with an AISI 304 stainless steel cover. Sleeve clamping is ensured by 4 inserts in low power motors and 6 inserts in motors bigger than 3Hp.

Mechanical Seal:
Graphite/ceramic in the standard version; SIC-SIC version available upon request.

Ball Bearings:
Duly oversized to ensure a long lasting motor.

Stator:
With 24 slots, specifically developed to achieve maximum electrical yield. Airtight sealed and immersed in selected mineral white and highly refined oil, suitable to be used in drinking water (F.D.A., Food and Drug Administration, approved)

Removable Power Cable-Connector:
It ensures perfect sealing in the most critical conditions and it aids maintenance operations. More specifically, the connector prevents oil from rising in the conductors up to the joint, thus enabling immersion at greater depths. The power cable complies with all major standards on the use in drinking water (KTW, ACS, WRAS).

Shaft:
Carbon-steel alloys in the rotor area, to foster electrical features. AISI 304 stainless steel projection. DUPLEX, a special type of stainless steel, replaces AISI 304 in motors bigger than 3Hp. This steel combines excellent resistance to corrosion and high mechanical resistance, which is necessary where static torque becomes really important.

100% tested:
All motors are tested at the end of the line. An extremely effective seal check is also carried out on all motors.

SINGLE PHASE SUBMERSIBLE MOTORS 50Hz 230V OIL FILLED

Type	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [μF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Lenght [m]
HYO4-037S230	0,5	0,37	230	1	3,6	12	2810	0,87	52	20	2000	311,3	6,45	4 x 1,5	1,7
HYO4-055S230	0,75	0,55	230	1	4,7	16,5	2810	0,88	57	25	2000	331,3	7,2	4 x 1,5	1,7
HYO4-075S230	1	0,75	230	1	5,9	18,9	2825	0,9	62	35	2000	356,3	8,45	4 x 1,5	1,7
HYO4-110S230	1,5	1,1	230	1	8,3	26,2	2840	0,91	64	40	2000	386,3	10,2	4 x 1,5	1,7
HYO4-150S230	2	1,5	230	1	10,7	35	2845	0,93	66	60	2000	436,3	11,65	4 x 1,5	1,7
HYO4-220S230	3	2,2	230	1	15,2	47	2820	0,93	67	80	2000	481,3	14,9	4 x 1,5	1,7
HYO4-370S230	5	3,7	230	1	24,5	95	2810	0,95	73	100+315/400	5000	699,5	24,15	4 x 2	2,7

THREE PHASE SUBMERSIBLE MOTORS 50Hz 230V OIL FILLED

Type	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [μF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Lenght [m]
HYO4-037T230	0,5	0,37	230	3	2,2	8,9	2855	0,75	57	-	2000	311,3	6,45	4 x 1,5	1,7
HYO4-055T230	0,75	0,55	230	3	3,4	13,5	2830	0,70	62	-	2000	331,3	7,2	4 x 1,5	1,7
HYO4-075T230	1	0,75	230	3	4,1	15,5	2820	0,74	62	-	2000	356,3	8,45	4 x 1,5	1,7
HYO4-110T230	1,5	1,1	230	3	5,9	25	2825	0,68	68	-	2000	371,3	9,35	4 x 1,5	1,7
HYO4-150T230	2	1,5	230	3	8,2	27,5	2830	0,64	70	-	2000	386,3	10,2	4 x 1,5	1,7
HYO4-220T230	3	2,2	230	3	10,6	39,5	2815	0,70	72	-	2000	436,3	11,65	4 x 1,5	1,7
HYO4-300T230	4	3	230	3	12,8	39,5	2830	0,81	75	-	3000	481,3	14,9	4 x 1,5	1,7
HYO4-400T230	5,5	4	230	3	15,6	86	2840	0,83	76	-	5000	609,5	20,05	4 x 2	2,7
HYO4-550T230	7,5	5,5	230	3	22,7	109	2825	0,78	79	-	5000	699,5	24,65	4 x 2	2,7

THREE PHASE SUBMERSIBLE MOTORS 50Hz 400V OIL FILLED

Type	P ₂ [Hp]	P ₂ [kW]	Voltage [V]	Ph	In [A]	Iavv [A]	rpm	φ cos	η [%]	Capacitor [μF]	Thrust load [N]	Length A [mm]	Weight [kg]	Cable section [mm²]	Cable Lenght [m]
HYO4-037T400	0,5	0,37	400	3	1,8	5,8	2850	0,54	58	-	2000	311,3	6,45	4 x 1,5	1,7
HYO4-055T400	0,75	0,55	400	3	2	8	2835	0,65	63	-	2000	331,3	7,2	4 x 1,5	1,7
HYO4-075T400	1	0,75	400	3	2,5	9,4	2825	0,77	63	-	2000	356,3	8,45	4 x 1,5	1,7
HYO4-110T400	1,5	1,1	400	3	3,4	15,5	2825	0,69	68	-	2000	371,3	9,35	4 x 1,5	1,7
HYO4-150T400	2	1,5	400	3	4,8	18	2835	0,63	71	-	2000	386,3	10,2	4 x 1,5	1,7
HYO4-220T400	3	2,2	400	3	6,1	39,5	2810	0,69	72	-	2000	436,3	11,65	4 x 1,5	1,7
HYO4-300T400	4	3	400	3	7,1	39,5	2835	0,69	75	-	3000	481,3	14,9	4 x 1,5	1,7
HYO4-400T400	5,5	4	400	3	9,2	49,5	2845	0,83	76	-	5000	609,5	20,05	4 x 2	2,7
HYO4-550T400	7,5	5,5	400	3	11,7	64	2835	0,86	79	-	5000	699,5	24,65	4 x 2	2,7
HYO4-750T400	10	7,5	400	3	16,4	88	2840	0,81	81	-	5000	799,5	28,95	4 x 2	2,7

TECHNICAL SPECIFICATIONS

Motor/Pump Flange	4” Nema Standard
Degree of protection	IP 68
Insulation Class	F
Voltage tolerance	- 10% / + 10%
Pumped liquid temperature	0°C - 35°C 32°F - 95°F
Min. Cooling Flow	0,1 m/s 0,328 ft/s
Max. Starts / Hour	30
Mounting	Vertical And/Or Horizontal
Max. Immersion Depth	200M
Thrust Load From 0,5 to 3 Hp From 3 to 4 Hp From 5,5 to 10 Hp	2000N 3000N 5000N
Single Phase Version: Psc Type (Permanent Split Capacitor)	
Rewindable Motor Version	
Cables, Voltage, Thrust Loads [...] Special Versions Available.	



Notes

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Be pumping partners

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