3SR 3" submersible pumps

Clean water

Domestic use

Civil use



PERFORMANCE RANGE

- Flow rate up to **120 l/min** (7.2 m³/h)
- Head up to **267 m**

INSTALLATION AND USE

3-inch submersible pumps are designed to transfer clean water, making them perfect for household use, irrigation, and small community water systems.

KEY FEATURES

The increased efficiency of 3SR pumps not only saves electricity but also offers economic advantages. Their small size and light build allow for easy installation in wells 3 inches wide or more.
With a blend of hydraulic parts and a high-efficiency motor, 3SR pumps excel in the 3-inch category, capable of handling water with up to **150 g/m³** of sand.

ELECTRIC MOTOR

- **Rewindable** motor in oil bath (non-toxic food-safe oil) 2-pole, 50 Hz
- Voltage:
  - single-phase 230 V
  - three-phase 400 V
- Continuous running duty **S1**
- Insulation: Class F
- Protection rating: IP 68
- Shaft and sleeve: **AISI 304** stainless steel
- Flange coupling dimensions to NEMA standard
- Connector with power cable from:
  - **1.5 m** for power up to 0.75 kW
  - **2.0 m** for power ratings from 1.1 kW

APPLICATION LIMITS

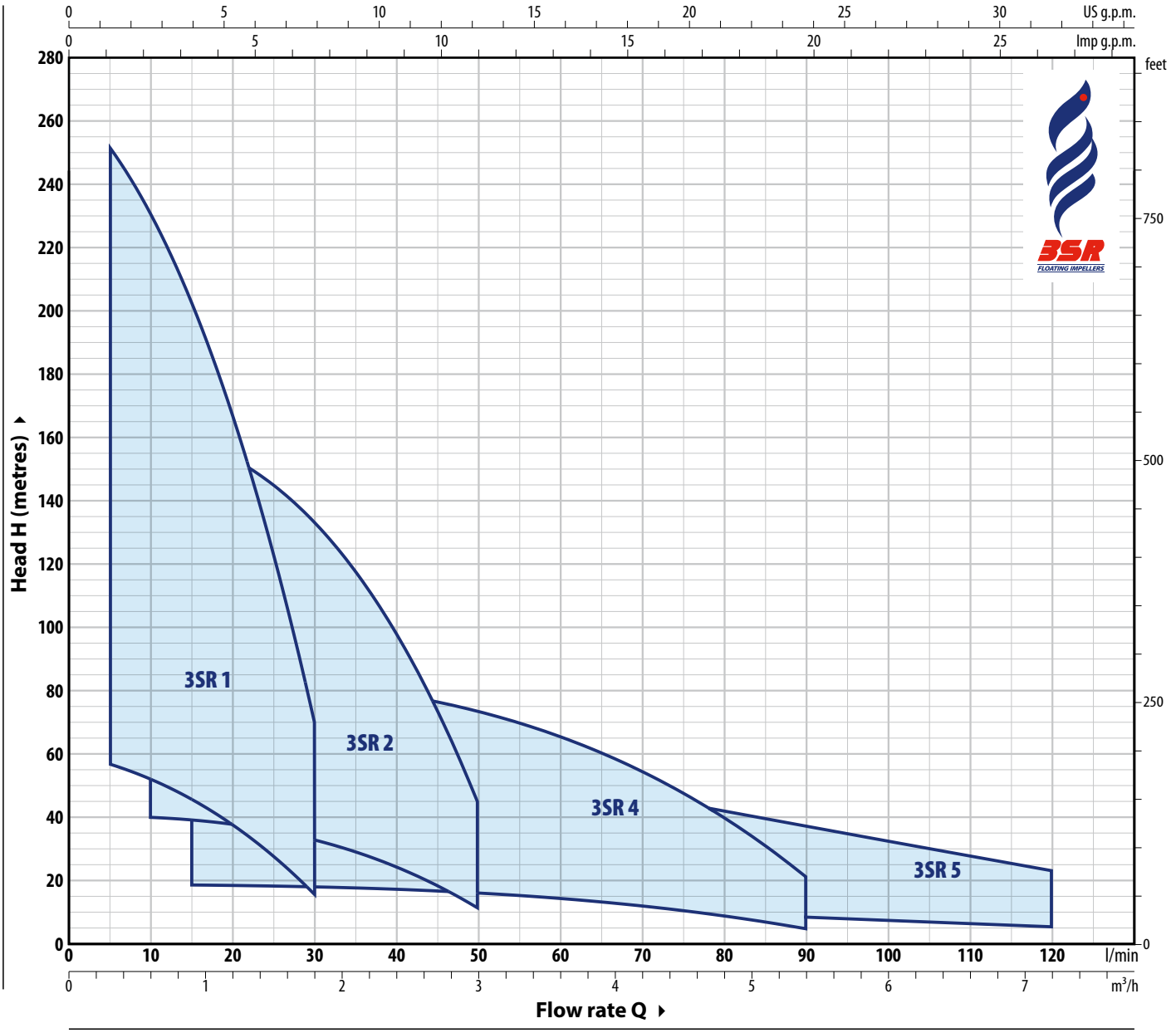
- Liquid temperature up to **+35 °C**
- Maximum sand content **150 g/m³**
- Capable of operating at depths of up to **100 metres** below water level (with an appropriately sized power cable)
- Vertical operation
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**

AVAILABLE UPON REQUEST

※ **10, 20, 30 or 40 metres** long power cable
※ Different voltage requirements 60 Hz frequency

PERFORMANCE RANGE

50 Hz



PATENTS:

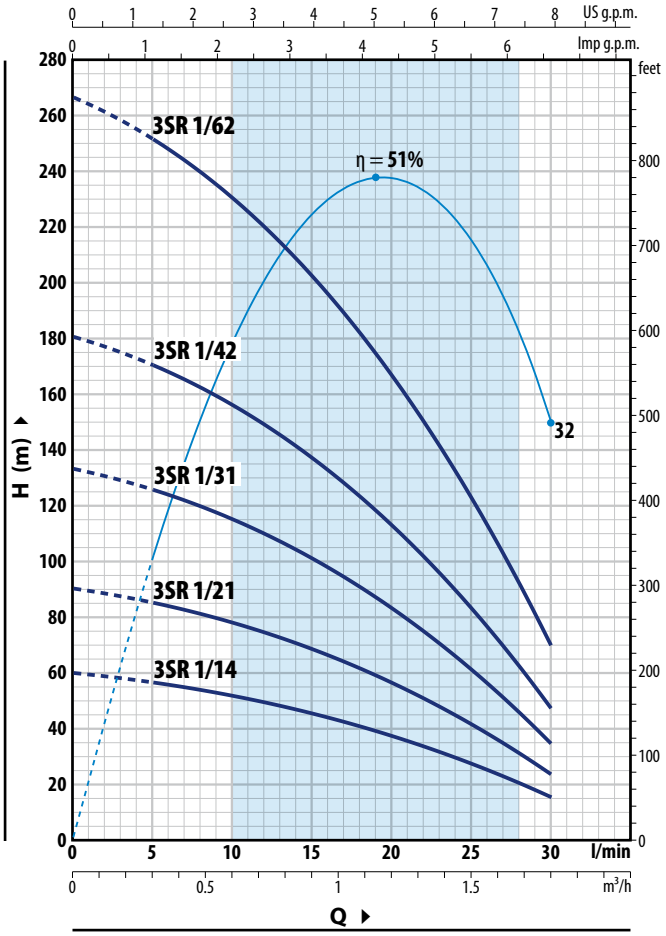
- Patent No. EP3123031, EP2419642

ECO FRIENDLY · ErP ready · RoHS 2 COMPLIANT · REACH COMPLIANT · EMC COMPLIANT

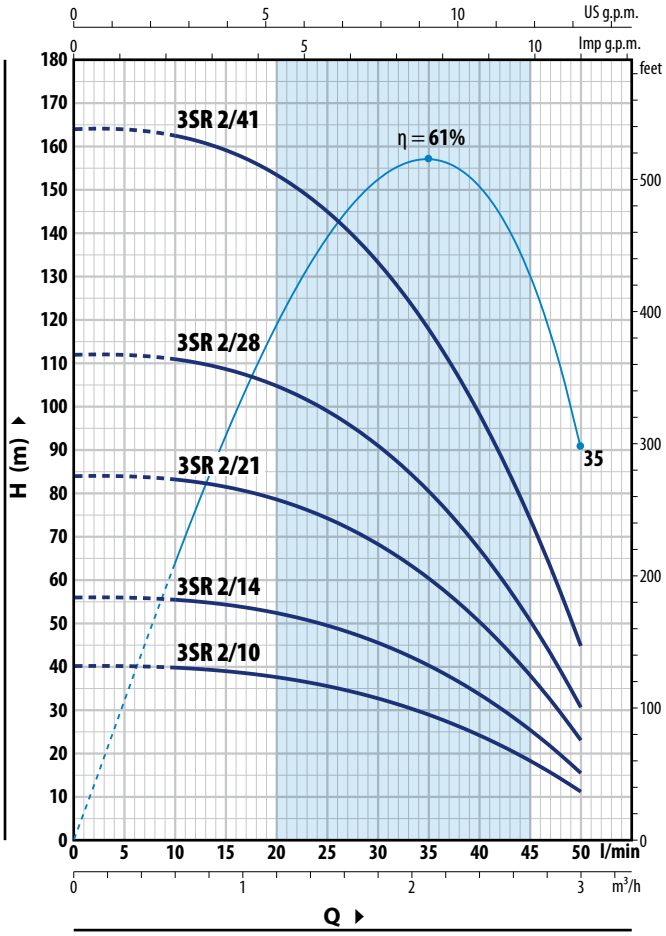
CURVES AND PERFORMANCE DATA

50 Hz

3SR 1



3SR 2



3SR 1

TYPE		POWER (P2)		Q	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**5**	**10**	**15**	**20**	**25**	**30**
3SRm 1/14	**3SR 1/14**	0.25	0.33			60	57	52	45.5	37.5	28	16
3SRm 1/21	**3SR 1/21**	0.37	0.50			90	85	78	68.5	56.5	41.5	24
3SRm 1/31	**3SR 1/31**	0.55	0.75	**H**	metres	133	126	115	101	83	61.5	35
3SRm 1/42	**3SR 1/42**	0.75	1			181	170	156	137	113	83	47.5
3SRm 1/62	**3SR 1/62**	1.1	1.5			267	252	230	203	167	123	70

3SR 2

TYPE		POWER (P2)		Q	m³/h	0	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**50**
3SRm 2/10	**3SR 2/10**	0.25	0.33			40	39.5	39	37.5	35.5	32.5	28.5	24	11
3SRm 2/14	**3SR 2/14**	0.37	0.50			56	55.5	54.5	52.5	49.5	45.5	40	33.5	15.5
3SRm 2/21	**3SR 2/21**	0.55	0.75	**H**	metres	84	83	81	79	74	68	60.5	50.5	23
3SRm 2/28	**3SR 2/28**	0.75	1			112	111	109	105	99	91	80	67	30.5
3SRm 2/41	**3SR 2/41**	1.1	1.5			164	162	159	153	145	133	118	98	45

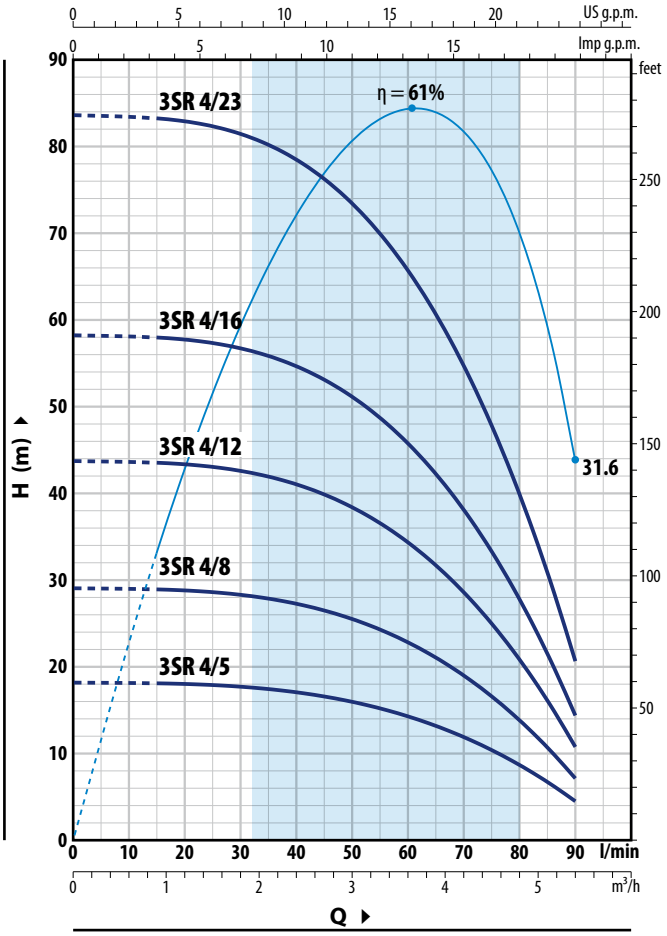
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

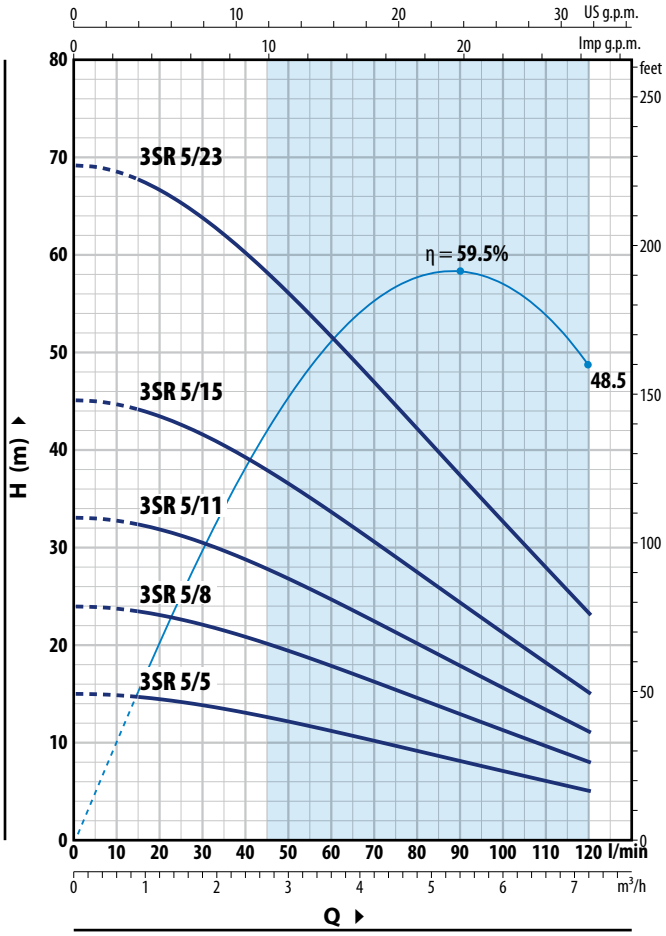
CURVES AND PERFORMANCE DATA

50 Hz

3SR 4



3SR 5



3SR 4

TYPE		POWER (P2)		Q m³/h	0	0.9	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4
Single-phase	Three-phase	kW	HP	Q l/min	**0**	**15**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**
3SRm 4/5	**3SR 4/5**	0.25	0.33		18	18	18	17.8	17.1	16	14.3	12	8.7	4.5
3SRm 4/8	**3SR 4/8**	0.37	0.50		29	29	29	28.5	27.5	25.6	23	19	14	7
3SRm 4/12	**3SR 4/12**	0.55	0.75	**H** metres	43.5	43.5	43.5	42.5	41	38.5	34.5	28.5	21	11
3SRm 4/16	**3SR 4/16**	0.75	1		58.5	58	58	57	54.5	51	46	38	28	14.5
3SRm 4/23	**3SR 4/23**	1.1	1.5		84	83	83	82	79	74	66	55	40	20.5

※ 3SR5

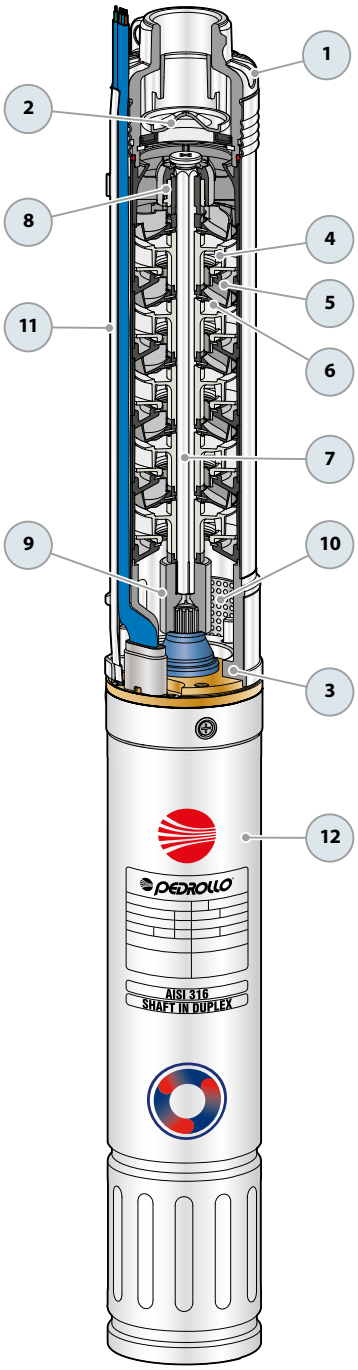
TYPE		POWER (P2)		Q m³/h	0	0.9	1.8	2.4	3	3.6	4.2	4.8	6	7.2
Single-phase	Three-phase	kW	HP	Q l/min	**0**	**15**	**30**	**40**	**50**	**60**	**70**	**80**	**100**	**120**
3SRm 5/5	**3SR 5/5**	0.25	0.33		15	14.5	13.8	13	12.1	11.2	10.1	9.1	7	5
3SRm 5/8	**3SR 5/8**	0.37	0.5		24	23.5	22.1	20.8	19.4	17.8	16.2	14.6	11.3	8
3SRm 5/11	**3SR 5/11**	0.55	0.75	**H** metres	33	32.5	30.5	28.5	26.7	24.5	22.3	20	15.5	11
3SRm 5/15	**3SR 5/15**	0.75	1		45	44	41.5	39	36.5	33.5	30.5	27.5	21.1	15
3SRm 5/23	**3SR 5/23**	1.1	1.5		69	67.5	63.5	60	56	51.5	46.5	42	32.5	23

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

1	**Delivery port**	Micro-cast **AISI 304** stainless steel with thread according to ISO 228/1
2	**Check valve**	Stainless steel **AISI 304**
3	**Motor bracket**	**AISI 304** micro-cast stainless steel, sized to NEMA standards
4	**Impellers**	Delrin® for 3SR 1-2-4 Noryl™ for 3SR 5
5	**Diffusers**	Noryl™ - **AISI 304** stainless steel
6	**Diffuser cover**	Noryl™ - **AISI 304** stainless steel for 3SR 1-2-4 Noryl™ for 3SR 5
7	**Pump shaft**	Stainless steel **AISI 304**
8	**Pump bearings**	Made of **AISI 316L** stainless steel coated with chromium oxide, for greater durability even in the presence of sand.
9	**Tow coupling**	Stainless steel **AISI 316L**
10	**Filter**	Stainless steel **AISI 304**
11	**Cable sheath**	Stainless steel **AISI 304**
12	**Motor 3"**	Rewindable oil-submerged motor



ABSORPTION

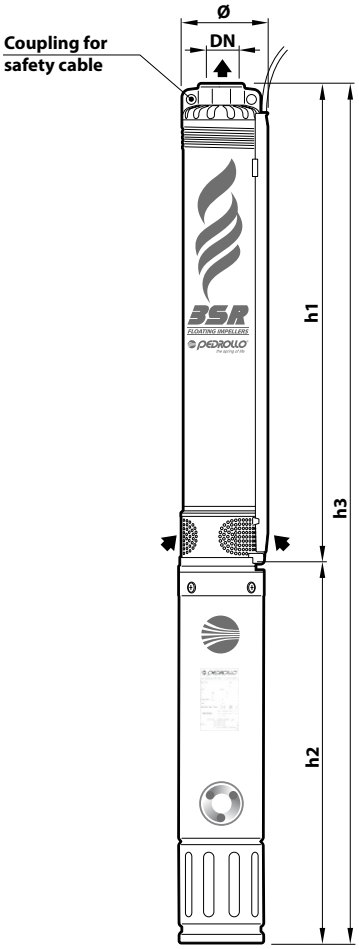
Single-phase versions - 230 V					
TYPE	**Power nominal P2**		**Axial Load**	**Capacitor** (VL=450V)	**ABSORPTION**
230 V / 50 Hz	kW	HP	N	µF	
3SRm 1/14	0.25	0.33		12.5	3.2 A
3SRm 1/21	0.37	0.50		12.5	3.4 A
3SRm 1/31	0.55	0.75	800	16	4.5 A
3SRm 1/42	0.75	1		20	6.0 A
3SRm 1/62	1.1	1.5		30	8.0 A
3SRm 2/10	0.25	0.33		12.5	3.2 A
3SRm 2/14	0.37	0.50		12.5	3.4 A
3SRm 2/21	0.55	0.75	800	16	4.5 A
3SRm 2/28	0.75	1		20	6.0 A
3SRm 2/41	1.1	1.5		30	8.0 A
3SRm 4/5	0.25	0.33		12.5	3.2 A
3SRm 4/8	0.37	0.50		12.5	3.4 A
3SRm 4/12	0.55	0.75	800	16	4.5 A
3SRm 4/16	0.75	1		20	6.0 A
3SRm 4/23	1.1	1.5		30	8.0 A
3SRm 5/5	0.25	0.33		12.5	3.2 A
3SRm 5/8	0.37	0.5		12.5	3.4 A
3SRm 5/11	0.55	0.75	800	16	4.5 A
3SRm 5/15	0.75	1		20	6.0 A
3SRm 5/23	1.1	1.5		30	8.0 A

Three-phase versions - 400 V				
TYPE	**Power nominal P2**		**Axial Load**	**ABSORPTION**
400 V / 50 Hz	kW	HP	N	
3SR 1/14	0.25	0.33		1.4 A
3SR 1/21	0.37	0.50		1.5 A
3SR 1/31	0.55	0.75	800	1.9 A
3SR 1/42	0.75	1		2.6 A
3SR 1/62	1.1	1.5		3.5 A
3SR 2/10	0.25	0.33		1.4 A
3SR 2/14	0.37	0.50		1.5 A
3SR 2/21	0.55	0.75	800	1.9 A
3SR 2/28	0.75	1		2.6 A
3SR 2/41	1.1	1.5		3.5 A
3SR 4/5	0.25	0.33		1.4 A
3SR 4/8	0.37	0.50		1.5 A
3SR 4/12	0.55	0.75	800	1.9 A
3SR 4/16	0.75	1		2.6 A
3SR 4/23	1.1	1.5		3.5 A
3SR 5/5	0.25	0.33		1.4 A
3SR 5/8	0.37	0.5		1.5 A
3SR 5/11	0.55	0.75	800	1.9 A
3SR 5/15	0.75	1		2.6 A
3SR 5/23	1.1	1.5		3.5 A

DIMENSIONS AND WEIGHT

TYPE	PORT	DIMENSIONS mm				kg
Single-ph.	**DN**	Ø	h1	h2	h3	1~
3SRm 1/14			415	388	803	9.9
3SRm 1/21			547	388	935	10.4
3SRm 1/31	**1″**	**76**	736	408	1144	12.0
3SRm 1/42			973	448	1421	14.2
3SRm 1/62			1380	488	1868	17.6
3SRm 2/10			377	388	765	9.6
3SRm 2/14			467	388	855	9.9
3SRm 2/21	**1″**	**76**	625	408	1033	11.2
3SRm 2/28			813	448	1261	13.1
3SRm 2/41			1136	488	1624	15.8
3SRm 4/5			311	388	699	9.2
3SRm 4/8			407	388	795	9.4
3SRm 4/12	**1″**	**76**	534	408	942	10.5
3SRm 4/16			662	448	1110	12.2
3SRm 4/23			915	488	1403	14.5
3SRm 5/5			399	388	787	9.7
3SRm 5/8			550	388	938	10.5
3SRm 5/11	**1″**	**76**	700	408	1108	11.9
3SRm 5/15			901	448	1349	14.1
3SRm 5/23			1303	488	1791	17.3

Three-ph.	**DN**	Ø	h1	h2	h3	3~
3SR 1/14			415	368	783	9.0
3SR 1/21			547	368	915	9.5
3SR 1/31	**1″**	**76**	736	388	1124	11.3
3SR 1/42			973	408	1381	13.3
3SR 1/62			1380	448	1828	16.7
3SR 2/10			377	368	745	8.7
3SR 2/14			467	368	835	9.0
3SR 2/21	**1″**	**76**	625	388	1013	10.6
3SR 2/28			813	408	1221	12.2
3SR 2/41			1136	448	1584	15.0
3SR 4/5			311	368	679	8.3
3SR 4/8			407	368	775	8.5
3SR 4/12	**1″**	**76**	534	388	922	9.8
3SR 4/16			662	408	1070	11.3
3SR 4/23			915	448	1363	13.6
3SR 5/5			399	368	767	9.2
3SR 5/8			550	368	918	10.0
3SR 5/11	**1″**	**76**	700	388	1088	11.4
3SR 5/15			901	408	1309	13.1
3SR 5/23			1303	448	1751	16.2



4SR 4" submersible pumps

Clean water

Domestic use

Civil use

Agricultural use



※ The new 4SR-S series floating impeller pumps, with their advanced hydraulic design and patented innovations, deliver outstanding performance and efficiency. They are exceptionally resistant to sand-related wear, offering a durability 10 times higher than other global market pumps!

※ The new 4SR-S pumps feature a patented inductor that improves priming capabilities in wells with air/water mix or water containing gasses.

PERFORMANCE RANGE

- Flow rate up to **350 l/min** (21 m³/h)
- Head up to **576 m**

INSTALLATION AND USE

They are recommended for pumping clean water. Due to their high efficiency and reliability, they are suitable for **domestic, civil and industrial** applications, for water distribution coupled with autoclaves, for irrigation, for washing systems, for pressure boosting, etc.

※ KEY FEATURES

Low energy consumption and remarkable durability, even in the presence of sand (up to **200 g/m³**), thanks to an innovative patented hydraulics system..

APPLICATION LIMITS

- Liquid temperature up to **+35 °C**
- Maximum sand content:
  - **200 g/m³** for 4SR-S
  - **150 g/m³** for 4SR-N
- Maximum operating depth below water level:
  - **200 m** with 4PD motors
  - **300 m** with 4PS motors
- Operation:
  - in vertical position
  - horizontally with the following limits:
    4SR-S - 1 / 1.5 / 2 / 4 up to **23 stages**
    4SR-S 6 / 8 up to **17 stages**
    4SR-N 10 / 12 / 15 up to **13 stages**
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**
- Continuous running duty **S1**

INCLUDES

ELECTRIC MOTOR

※ Three-phase 400 V - 50 Hz
※ Single-phase 230 V - 50 Hz
※ **Capacitor included in packaging**
※ Power cable:
  - **2 m** for power ratings from 0.75 to 2.2 kW
  - **3.6 m** for power ratings from 3 to 7.5 kW.

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency
※ Cooling jacket kit

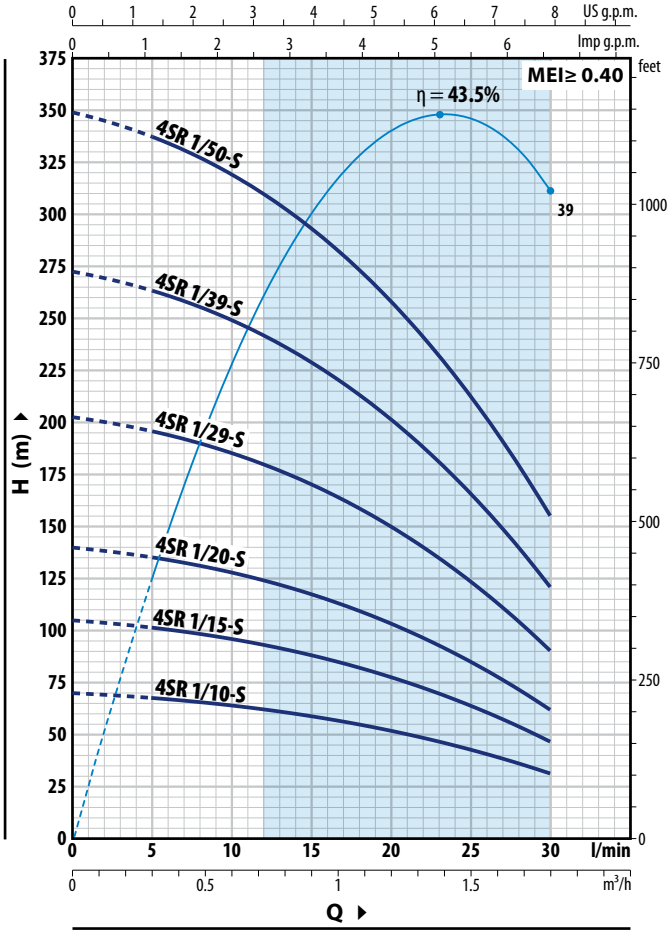
PATENTS:

- European Patent No. EP3123031
- European Patent No. EP2419642 for 4SR-S
- Patent No. 10202100003057 for 4SR-S
- **4SR-S®** is a registered trademark No. 018702382
- **SABBIA®** is registered trademark no. 5456231

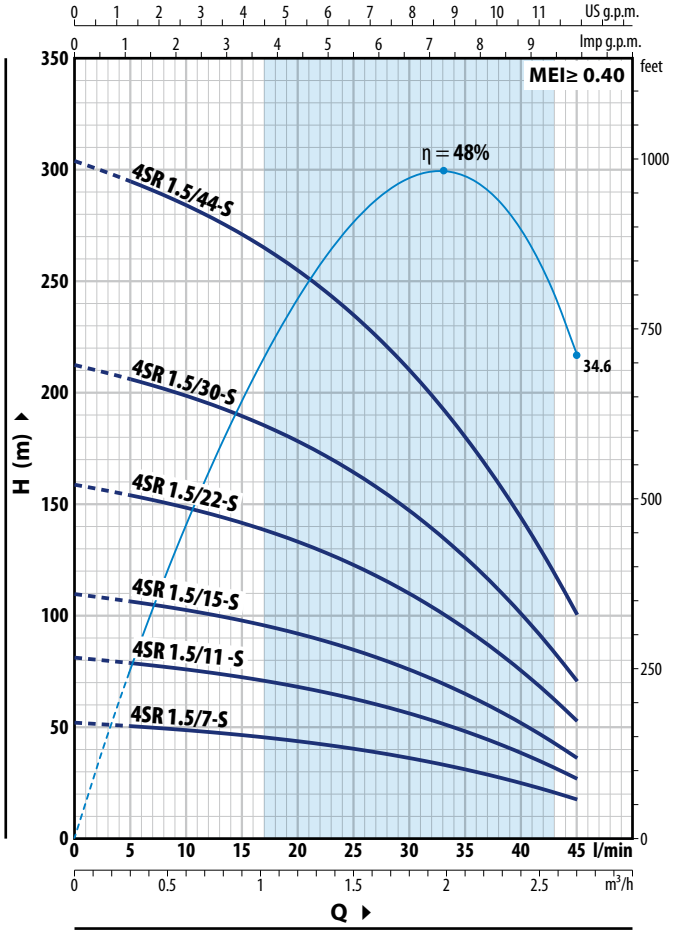
CURVES AND PERFORMANCE DATA

50 Hz

4SR 1-S



4SR 1.5-S



4SR 1-S

TYPE		POWER (P2)		Q	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**5**	**10**	**15**	**20**	**25**	**30**
4SRm 1/10 - S	**4SR 1/10 - S**	0.37	0.50	**H**	metres	70	67.5	64	58.5	51.5	42.5	31
4SRm 1/15 - S	**4SR 1/15 - S**	0.55	0.75			105	101	96	88	78	64	46.5
4SRm 1/20 - S	**4SR 1/20 - S**	0.75	1			140	135	128	117	103	85	62
4SRm 1/29 - S	**4SR 1/29 - S**	1.1	1.5			203	196	185	170	150	123	90
4SRm 1/39 - S	**4SR 1/39 - S**	1.5	2			273	264	249	229	202	166	121
4SRm 1/50 - S	**4SR 1/50 - S**	2.2	3			350	338	320	294	258	213	155

4SR 1.5-S

TYPE		POWER (P2)		Q	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**5**	**10**	**15**	**20**	**25**	**30**	**35**	**40**	**45**
4SRm 1.5/7 - S	**4SR 1.5/7 - S**	0.37	0.50	**H**	metres	51.5	50	48.5	46	43.5	40	36	30.5	24.5	17
4SRm 1.5/11 - S	**4SR 1.5/11 - S**	0.55	0.75			81	78	75	72	67.5	62.5	55.5	48	38	26.5
4SRm 1.5/15 - S	**4SR 1.5/15 - S**	0.75	1			109	106	102	97	92	84	76	64.5	51.5	36
4SRm 1.5/22 - S	**4SR 1.5/22 - S**	1.1	1.5			158	154	148	141	133	122	109	94	75	52.5
4SRm 1.5/30 - S	**4SR 1.5/30 - S**	1.5	2			213	206	199	190	178	164	147	126	100	70
4SRm 1.5/44 - S	**4SR 1.5/44 - S**	2.2	3			304	295	284	271	255	235	210	180	144	100

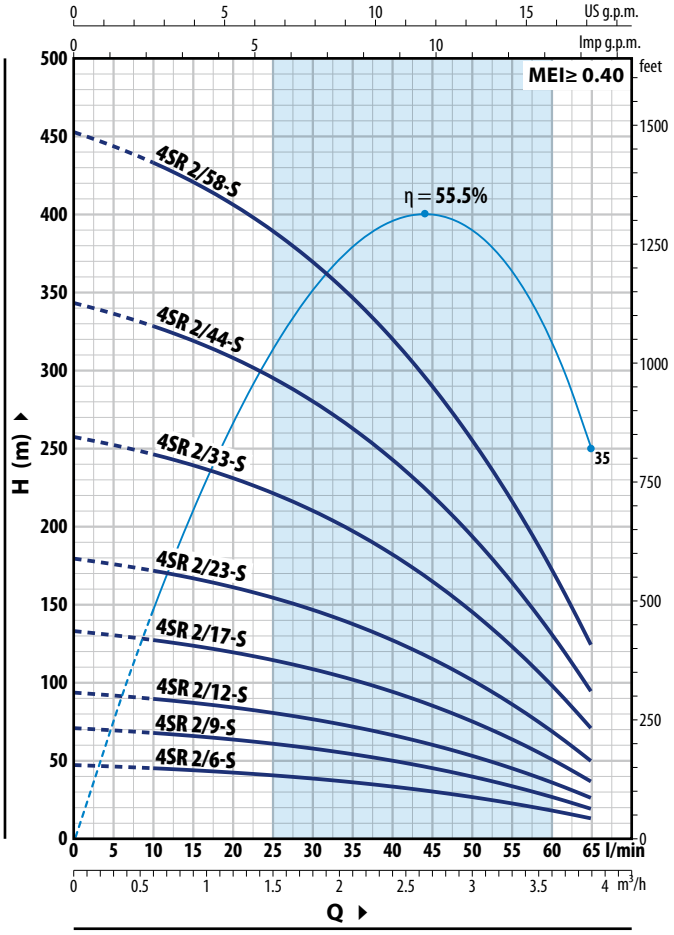
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

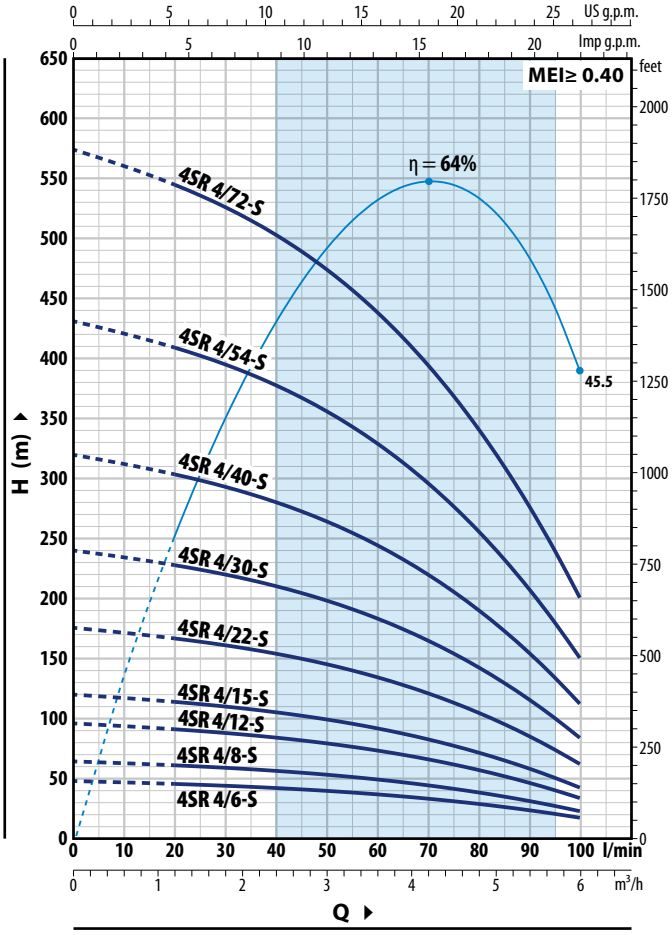
CURVES AND PERFORMANCE DATA

50 Hz

4SR 2-S



4SR 4-S



4SR 2-S

TYPE		POWER (P2)		Q m³/h	0	0.6	1.2	1.8	2.4	3.0	3.6	3.9
Single-phase	**Three-phase**	**kW**	**HP**	l/min	**0**	**10**	**20**	**30**	**40**	**50**	**60**	**65**
4SRm 2/6 - S	**4SR 2/6 - S**	0.37	0.50		47	45	42	38	33	26.4	18	13
4SRm 2/9 - S	**4SR 2/9 - S**	0.55	0.75		70	67	63	57.5	49.5	39.5	26.8	19.5
4SRm 2/12 - S	**4SR 2/12 - S**	0.75	1		94	90	84	76	66	53	36	25.5
4SRm 2/17 - S	**4SR 2/17 - S**	1.1	1.5	**H** metres	133	127	119	108	94	75	50.5	36.5
4SRm 2/23 - S	**4SR 2/23 - S**	1.5	2		179	172	161	146	127	101	68.5	49
4SRm 2/33 - S	**4SR 2/33 - S**	2.2	3		257	246	231	210	182	145	98	71
–	**4SR 2/44 - S**	3	4		343	328	308	280	243	194	131	94
–	**4SR 2/58 - S**	4	5.5		452	433	406	369	320	256	173	124

4SR 4-S

TYPE		POWER (P2)		Q m³/h	0	1.2	1.8	2.4	3.0	3.6	4.2	4.8	5.4	6.0
Single-phase	**Three-phase**	**kW**	**HP**	l/min	**0**	**20**	**30**	**40**	**50**	**60**	**70**	**80**	**90**	**100**
4SRm 4/6 - S	**4SR 4/6 - S**	0.55	0.75		48	45.5	44	42	39.5	36.5	33	28.5	23.2	17
4SRm 4/8 - S	**4SR 4/8 - S**	0.75	1		64	60.5	58.5	56	53	49	44	38	31	22.5
4SRm 4/12 - S	**4SR 4/12 - S**	1.1	1.5		96	91	88	84	79	73	66	57	46.5	33.5
4SRm 4/15 - S	**4SR 4/15 - S**	1.5	2		120	114	110	105	99	92	83	71	58	42
4SRm 4/22 - S	**4SR 4/22 - S**	2.2	3	**H** metres	176	167	161	154	145	134	121	105	85	61.5
–	**4SR 4/30 - S**	3	4		240	228	220	210	198	183	165	143	116	84
–	**4SR 4/40 - S**	4	5.5		320	304	293	280	264	244	220	190	154	112
–	**4SR 4/54 - S**	5.5	7.5		432	410	396	379	357	330	297	257	209	151
–	**4SR 4/72 - S**	7.5	10		576	547	528	505	476	440	396	342	278	202

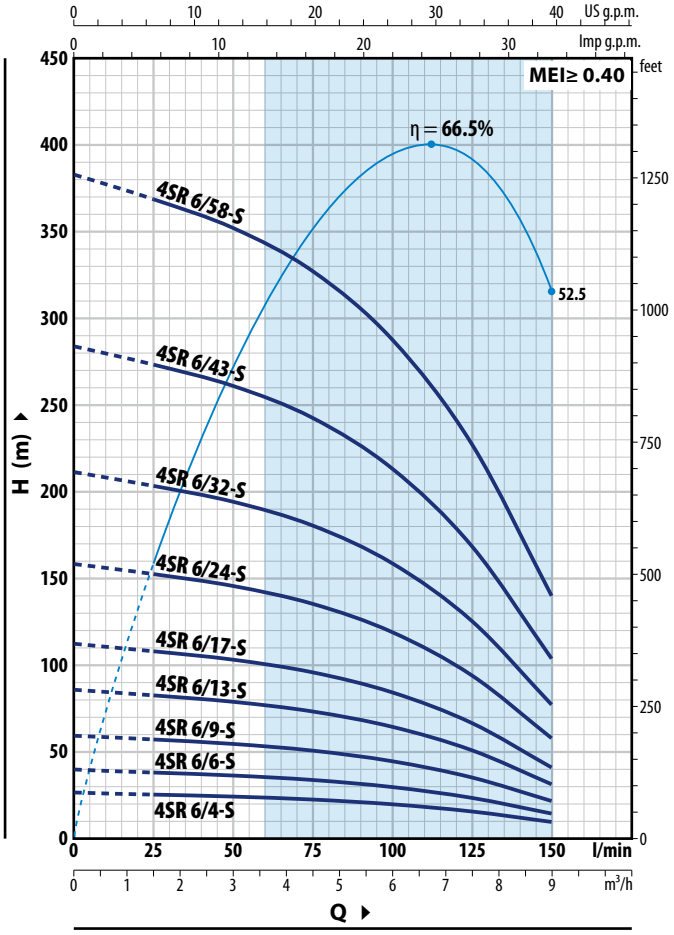
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

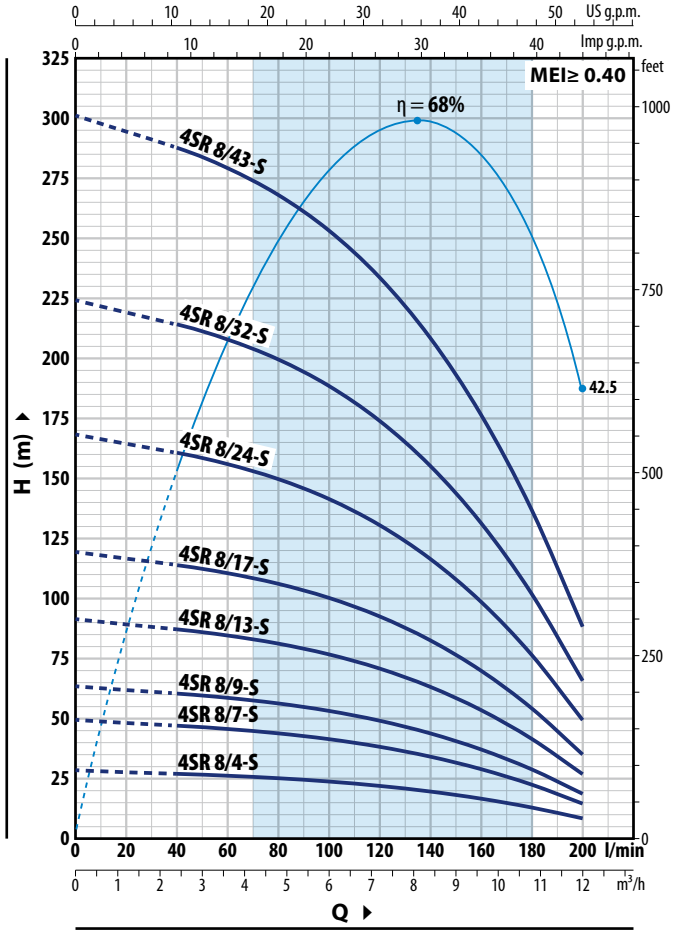
CURVES AND PERFORMANCE DATA

50 Hz

4SR 6-S



4SR 8- S



4SR 6-S

TYPE		POWER (P2)		Q m³/h	0	1.5	3.0	4.5	6.0	7.5	9.0
Single-phase	**Three-phase**	**kW**	**HP**	l/min	**0**	**25**	**50**	**75**	**100**	**125**	**150**
4SRm 6/4 - S	**4SR 6/4 - S**	0.55	0.75	H metres	26.5	25.5	24.3	22.5	19.8	15.7	9.5
4SRm 6/6 - S	**4SR 6/6 - S**	0.75	1		39.5	38	36.5	34	29.5	23.5	14.5
4SRm 6/9 - S	**4SR 6/9 - S**	1.1	1.5		59.5	57	54.5	50.5	44.5	35.5	21.5
4SRm 6/13 - S	**4SR 6/13 - S**	1.5	2		86	83	79	73	64.5	51	31.5
4SRm 6/17 - S	**4SR 6/17 - S**	2.2	3		112	108	103	96	84	66.5	41
–	**4SR 6/24 - S**	3	4		158	152	146	135	119	94	58
–	**4SR 6/32 - S**	4	5.5		211	203	194	180	159	125	77
–	**4SR 6/43 - S**	5.5	7.5		284	273	261	242	213	168	104
–	**4SR 6/58 - S**	7.5	10		383	368	352	327	287	227	140

4SR 8-S

TYPE		POWER (P2)		Q m³/h	0	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0
Single-phase	**Three-phase**	**kW**	**HP**	l/min	**0**	**40**	**60**	**80**	**100**	**120**	**140**	**160**	**180**	**200**
4SRm 8/4 - S	**4SR 8/4 - S**	0.75	1	H metres	28	27	26	25	23.6	21.8	19.4	16.4	12.7	8
4SRm 8/7 - S	**4SR 8/7 - S**	1.1	1.5		49	47	45.5	43.5	41.5	38	34	28.5	22.3	14.5
4SRm 8/9 - S	**4SR 8/9 - S**	1.5	2		63	60.5	58.5	56	53	49	43.5	37	28.5	18.5
4SRm 8/13 - S	**4SR 8/13 - S**	2.2	3		91	87	85	81	77	71	63	53.5	41.5	26.5
–	**4SR 8/17 - S**	3	4		119	114	111	106	100	92	82	70	54	35
–	**4SR 8/24 - S**	4	5.5		168	161	156	150	141	131	116	99	76	49
–	**4SR 8/32 - S**	5.5	7.5		224	214	208	200	189	174	155	131	102	65.5
–	**4SR 8/43 - S**	7.5	10		301	288	280	268	253	234	209	177	137	88

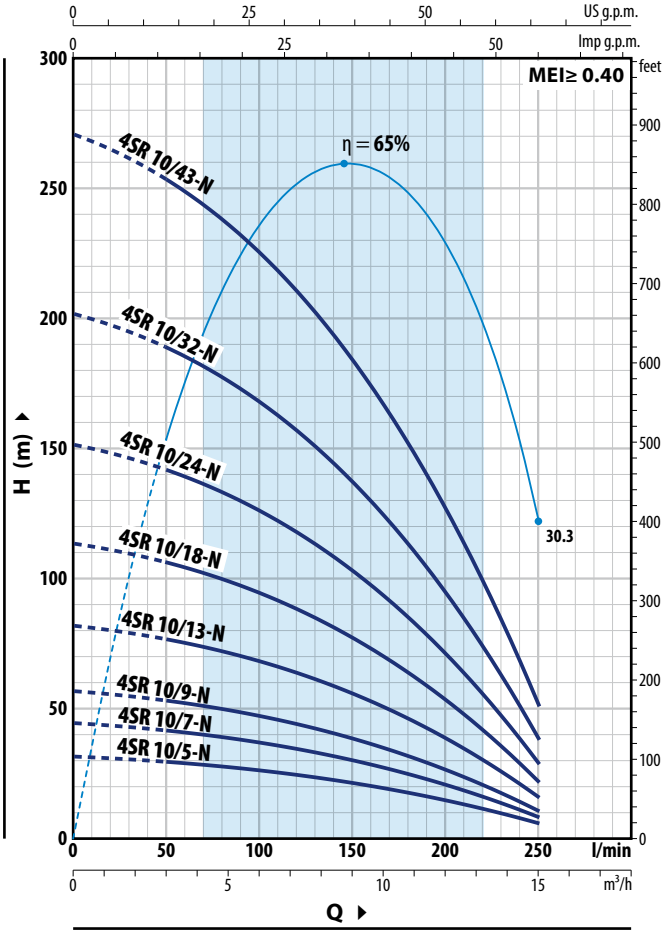
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

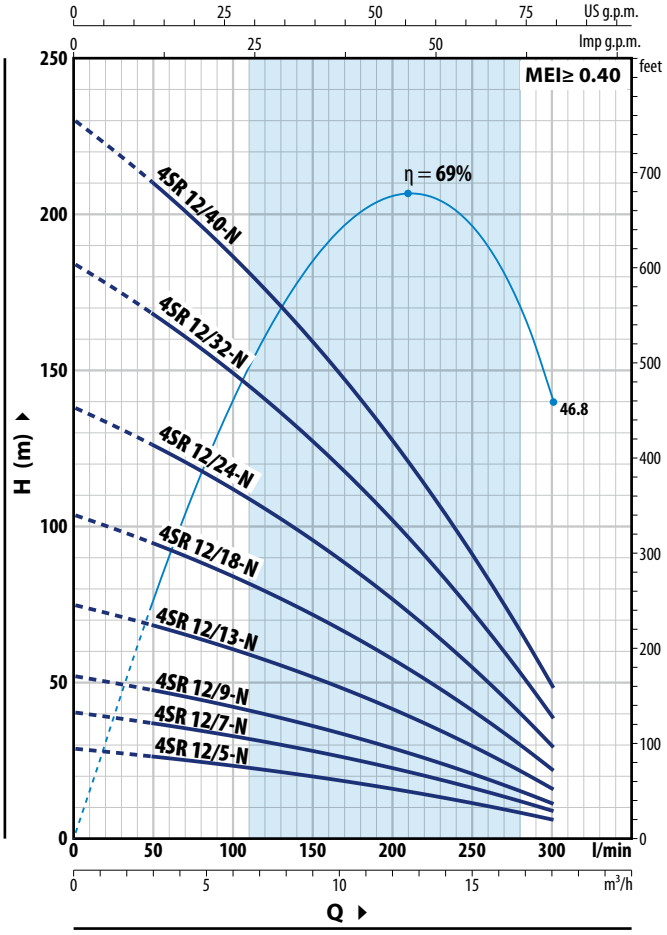
CURVES AND PERFORMANCE DATA

50 Hz

4SR 10-N



4SR 12-N



4SR 10-N

TYPE		POWER (P2)		Q m³/h	0	3.0	6.0	7.5	9.0	10.5	12.0	13.5	15.0
Single-phase	Three-phase	kW	HP	l/min	**0**	**50**	**100**	**125**	**150**	**175**	**200**	**225**	**250**
4SRm 10/5 - N	**4SR 10/5 - N**	0.75	1	H metres	31.5	29.5	26.2	24	21.4	18.3	14.7	10.6	6
4SRm 10/7 - N	**4SR 10/7 - N**	1.1	1.5		44	41.5	36.5	33.5	30	25.6	20.6	14.8	8.5
4SRm 10/9 -N	**4SR 10/9 - N**	1.5	2		56.5	53	47	43	38.5	33	26.5	19.1	10.5
4SRm 10/13 - N	**4SR 10/13 - N**	2.2	3		82	77	68	62.5	55.5	47.5	38	27.5	15.5
–	**4SR 10/18 - N**	3	4		113	106	94	86	77	66	53	38	21
–	**4SR 10/24 - N**	4	5.5		151	141	126	115	103	88	71	51	28.5
–	**4SR 10/32 - N**	5.5	7.5		202	189	168	154	137	117	94	68	38
–	**4SR 10/43 - N**	7.5	10		271	254	226	206	184	157	126	91	51

4SR 12-N

TYPE		POWER (P2)		Q m³/h	0	3	6	9	12	15	18
Single-phase	Three-phase	kW	HP	l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**
4SRm 12/5 - N	**4SR 12/5 - N**	0.75	1	H metres	29	26	23.2	19.8	15.9	11.3	6
4SRm 12/7 - N	**4SR 12/7 - N**	1.1	1.5		40.5	36.5	32.5	27.5	22.2	15.8	8.5
4SRm 12/9 - N	**4SR 12/9 - N**	1.5	2		52	47	42	35.5	28.5	20.3	11
4SRm 12/13 - N	**4SR 12/13 - N**	2.2	3		75	68	60.5	51.5	41	29.5	15.5
–	**4SR 12/18 - N**	3	4		104	94	84	71	57	40.5	21.5
–	**4SR 12/24 - N**	4	5.5		138	126	112	95	76	54	29
–	**4SR 12/32 - N**	5.5	7.5		184	168	149	127	101	72	38.5
–	**4SR 12/40 - N**	7.5	10		230	210	186	159	127	90	48

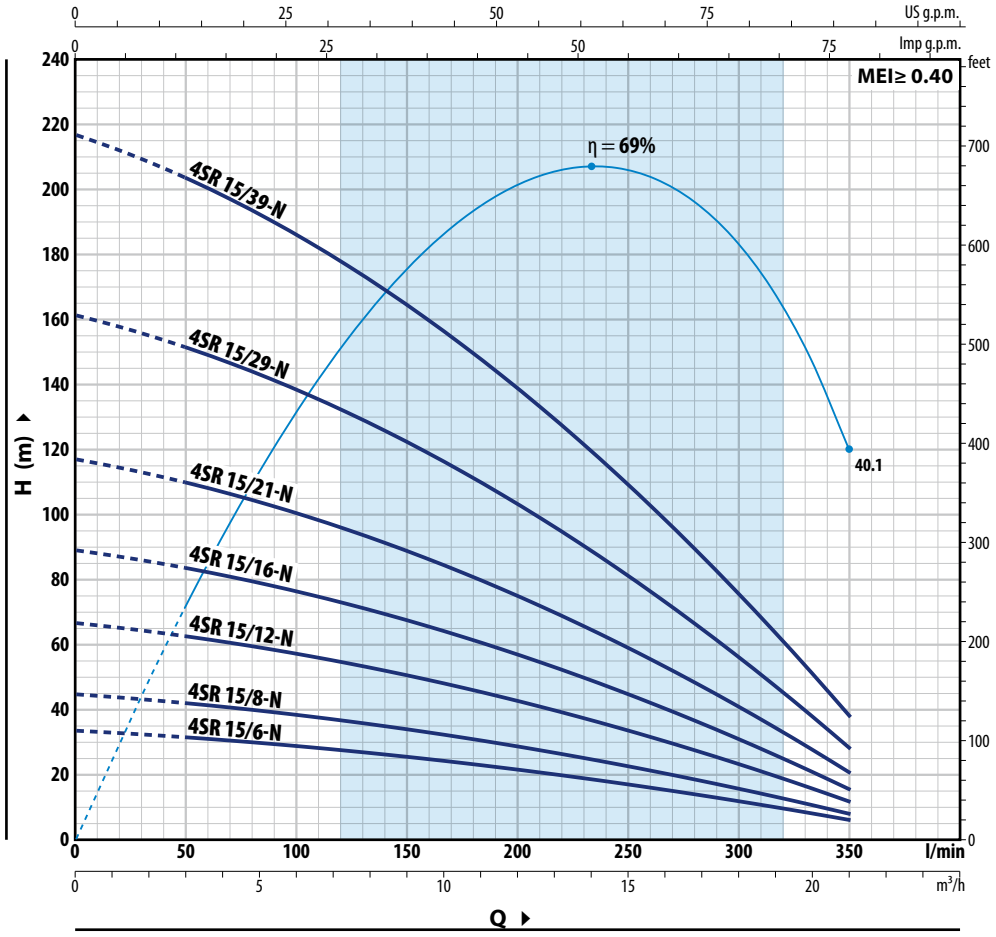
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

CURVES AND PERFORMANCE DATA

50 Hz

4SR 15-N



4SR 15-N

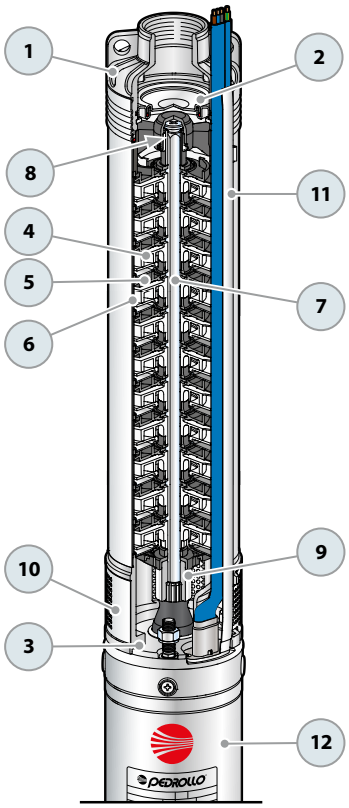
TYPE		POWER (P2)		Q	m³/h	0	3.0	6.0	9.0	12	15	18	21.0
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**
4SRm 15/6 - N	**4SR 15/6 - N**	1.1	1.5			33.5	31.5	28.5	25.3	21.3	16.7	11.6	6
4SRm 15/8 - N	**4SR 15/8 - N**	1.5	2			44.5	41.5	38	33.5	28.5	22.3	15.4	7.5
4SRm 15/12 - N	**4SR 15/12 - N**	2.2	3			66.5	62.5	57	50.5	42.5	33.5	23.1	11.5
–	**4SR 15/16 - N**	3	4	**H**	metres	89	83	76	67.5	57	44.5	31	15.5
–	**4SR 15/21 - N**	4	5.5			117	110	100	88	75	58.5	40.5	20
–	**4SR 15/29 - N**	5.5	7.5			161	151	138	122	103	81	56	28
–	**4SR 15/39 - N**	7.5	10			217	203	186	164	139	109	75	37.5

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

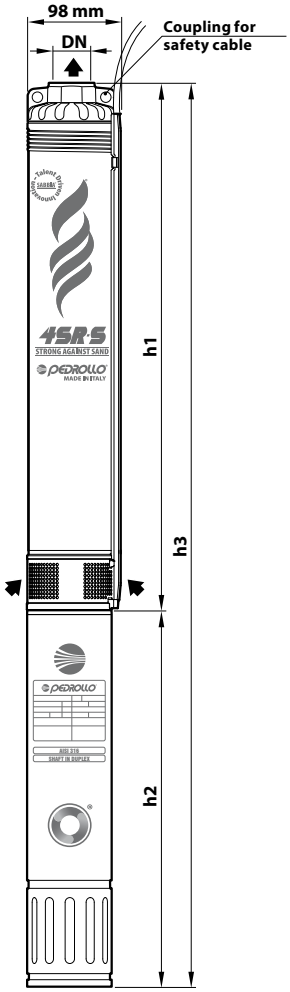
1	**Delivery port**	Micro-cast **AISI 304** stainless steel with thread according to ISO 228/1
2	**Check valve**	Stainless steel **AISI 304**
3	**Motor bracket**	Stainless steel **AISI 304**, sized to NEMA standards
4	**Impeller**	Delrin® for 4SR-S, Noryl™ for 4SR-N
5	**Diffuser**	Noryl™
6	**Stadium box**	Stainless steel **AISI 304**
7	**Pump shaft**	Stainless steel **AISI 304**
8	**Pump bearings**	Made of **AISI 316L** stainless steel coated with chromium oxide to resist sand
9	**Tow coupling**	Stainless steel
10	**Filter**	Stainless steel **AISI 304**
11	**Cable sheath**	Stainless steel **AISI 304**
12	**Motor 4"**	※ **4PD = rewindable oil filled motor** ※ **4PS = encapsulated water filled motor**



DIMENSIONS AND WEIGHTS (single-phase models)

TYPE Single-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg
4SRm 1/10 - S - PD		362	311	673	10.8
4SRm 1/15 - S - PD		488	331	819	13.2
4SRm 1/20 - S - PD		588	356	944	15.9
4SRm 1/29 - S - PD		767	396	1163	19.9
4SRm 1/39 - S - PD		992	437	1429	24.4
4SRm 1/50 - S - PD		1284	492	1776	31.3
4SRm 1.5/7 - S - PD		303	311	614	10.1
4SRm 1.5/11 - S - PD		382	331	713	11.8
4SRm 1.5/15 - S - PD		488	356	844	14.0
4SRm 1.5/22 - S - PD		627	396	1023	17.8
4SRm 1.5/30 - S - PD		787	437	1224	21.4
4SRm 1.5/44 - S - PD	**1¼"**	1163	492	1655	29.2
4SRm 2/6 - S - PD		283	311	594	10.0
4SRm 2/9 - S - PD		343	331	674	11.4
4SRm 2/12 - S - PD		402	356	758	13.3
4SRm 2/17 - S - PD		528	396	924	16.1
4SRm 2/23 - S - PD		647	437	1084	20.1
4SRm 2/33 - S - PD		873	492	1365	24.9
4SRm 4/6 - S - PD		313	331	644	11.2
4SRm 4/8 - S - PD		363	356	719	12.9
4SRm 4/12 - S - PD		462	396	858	15.5
4SRm 4/15 - S - PD		563	437	1000	18.4
4SRm 4/22 - S - PD		737	492	1229	23.2
4SRm 6/4 - S - PD		289	331	620	11.0
4SRm 6/6 - S - PD		352	356	708	12.7
4SRm 6/9 - S - PD		446	396	842	15.2
4SRm 6/13 - S - PD		598	437	1035	18.4
4SRm 6/17 - S - PD	**2"**	723	492	1215	22.7
4SRm 8/4 - S - PD		289	356	645	12.1
4SRm 8/7 - S - PD		382	396	778	15.0
4SRm 8/9 - S - PD		446	437	883	17.0
4SRm 8/13 - S - PD		598	492	1090	21.0

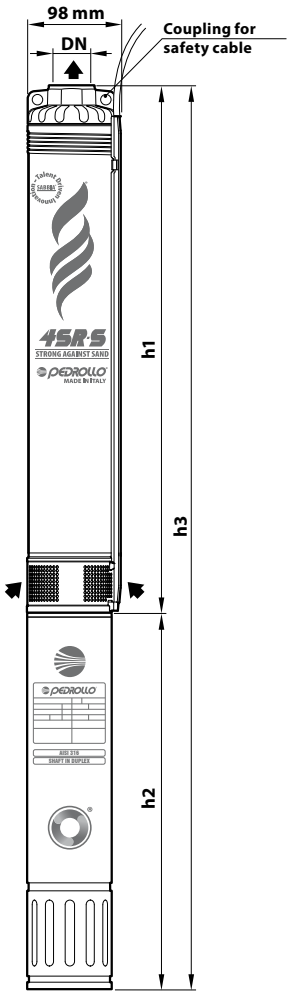
TYPE Single-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg
4SRm 1/10 - S - PS		362	237	599	12.3
4SRm 1/15 - S - PS		488	257	745	14.4
4SRm 1/20 - S - PS		588	272	860	16.6
4SRm 1/29 - S - PS		767	312	1079	20.6
4SRm 1/39 - S - PS		992	352	1344	25
4SRm 1/50 - S - PS		1284	402	1686	30.6
4SRm 1.5/7 - S - PS		303	237	540	10.1
4SRm 1.5/11 - S - PS		382	257	639	12.2
4SRm 1.5/15 - S - PS		488	272	760	14.8
4SRm 1.5/22 - S - PS		627	312	939	18.4
4SRm 1.5/30 - S - PS		787	352	1139	22.6
4SRm 1.5/44 - S - PS	**1¼"**	1163	402	1565	28.8
4SRm 2/6 - S - PS		283	237	520	10.2
4SRm 2/9 - S - PS		343	257	600	11.8
4SRm 2/12 - S - PS		402	272	674	14.0
4SRm 2/17 - S - PS		528	312	840	17.0
4SRm 2/23 - S - PS		647	352	999	20.6
4SRm 2/33 - S - PS		873	402	1275	24.8
4SRm 4/6 - S - PS		313	257	570	11.5
4SRm 4/8 - S - PS		363	272	635	13.6
4SRm 4/12 - S - PS		462	312	774	15.3
4SRm 4/15 - S - PS		563	352	915	18.8
4SRm 4/22 - S - PS		737	402	1139	24.0
4SRm 6/4 - S - PS		289	257	546	11.1
4SRm 6/6 - S - PS		352	272	624	13.2
4SRm 6/9 - S - PS		446	312	758	15.8
4SRm 6/13 - S - PS		598	352	950	19.0
4SRm 6/17 - S - PS	**2"**	723	402	1125	22.8
4SRm 8/4 - S - PS		289	272	561	12.3
4SRm 8/7 - S - PS		382	312	694	15.4
4SRm 8/9 - S - PS		446	352	798	17.8
4SRm 8/13 - S - PS		598	402	1000	20.2



DIMENSIONS AND WEIGHTS (three-phase models)

TYPE Three-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg
4SR 1/10 - S - PD		362	311	673	10.6
4SR 1/15 - S - PD		488	331	819	13.5
4SR 1/20 - S - PD		588	356	944	14.2
4SR 1/29 - S - PD		767	371	1138	17.8
4SR 1/39 - S - PD		992	396	1388	22.8
4SR 1/50 - S - PD		1284	437	1721	28.1
4SR 1.5/7 - S - PD		303	311	614	10.0
4SR 1.5/11 - S - PD		382	331	713	11.7
4SR 1.5/15 - S - PD		488	356	844	13.8
4SR 1.5/22 - S - PD		627	371	998	16.2
4SR 1.5/30 - S - PD		787	396	1183	19.3
4SR 1.5/44 - S - PD		1163	437	1600	26.6
4SR 2/6 - S - PD		283	311	594	9.8
4SR 2/9 - S - PD		343	331	674	11.4
4SR 2/12 - S - PD	**1¼"**	402	356	758	13.1
4SR 2/17 - S - PD		528	371	899	15.0
4SR 2/23 - S - PD		647	396	1043	17.7
4SR 2/33 - S - PD		873	437	1310	22.3
4SR 2/44 - S - PD		1163	450	1613	27.8
4SR 2/58 - S - PD		1432	625	2057	34.4
4SR 4/6 - S - PD		313	331	644	11.0
4SR 4/8 - S - PD		363	356	719	12.4
4SR 4/12 - S - PD		462	371	833	15.5
4SR 4/15 - S - PD		563	396	959	16.3
4SR 4/22 - S - PD		737	437	1174	20.3
4SR 4/30 - S - PD		963	450	1413	23.7
4SR 4/40 - S - PD		1284	625	1909	35.0
4SR 4/54 - S - PD		1684	725	2409	47.0
4SR 4/72 - S - PD		2134	845	2979	54.0
4SR 6/4 - S - PD		289	331	620	10.8
4SR 6/6 - S - PD		352	356	708	12.0
4SR 6/9 - S - PD		446	371	817	13.9
4SR 6/13 - S - PD		598	396	994	16.3
4SR 6/17 - S - PD		723	437	1160	20.0
4SR 6/24 - S - PD		969	450	1419	23.5
4SR 6/32 - S - PD		1247	625	1872	32.0
4SR 6/43 - S - PD		1618	725	2343	45.0
4SR 6/58 - S - PD	**2"**	2161	845	3006	55.0
4SR 8/4 - S - PD		289	356	645	11.6
4SR 8/7 - S - PD		382	371	753	13.4
4SR 8/9 - S - PD		446	396	842	15.1
4SR 8/13 - S - PD		598	437	1035	18.2
4SR 8/17 - S - PD		723	450	1173	21.1
4SR 8/24 - S - PD		969	625	1594	30.0
4SR 8/32 - S - PD		1247	725	1972	40.6
4SR 8/43 - S - PD		1618	845	2463	49.0

TYPE Three-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg
4SR 1/10 - S - PS		362	237	599	12.2
4SR 1/15 - S - PS		488	237	725	13.9
4SR 1/20 - S - PS		588	257	845	15.6
4SR 1/29 - S - PS		767	272	1039	18.8
4SR 1/39 - S - PS		992	297	1289	22.6
4SR 1/50 - S - PS		1284	352	1636	29.8
4SR 1.5/7 - S - PS		303	237	540	10.1
4SR 1.5/11 - S - PS		382	237	619	11.1
4SR 1.5/15 - S - PS		488	257	745	13.8
4SR 1.5/22 - S - PS		627	272	899	16.4
4SR 1.5/30 - S - PS		787	297	1084	20.5
4SR 1.5/44 - S - PS		1163	352	1515	28.0
4SR 2/6 - S - PS		283	237	520	10.2
4SR 2/9 - S - PS		343	237	580	10.7
4SR 2/12 - S - PS	**1¼"**	402	257	659	13.2
4SR 2/17 - S - PS		528	272	800	15.5
4SR 2/23 - S - PS		647	297	944	17.8
4SR 2/33 - S - PS		873	352	1225	24.0
4SR 2/44 - S - PS		1163	484	1647	31.6
4SR 2/58 - S - PS		1432	574	2006	41.7
4SR 4/6 - S - PS		313	237	550	11.2
4SR 4/8 - S - PS		363	257	620	12.6
4SR 4/12 - S - PS		462	272	734	14.2
4SR 4/15 - S - PS		563	297	860	16.2
4SR 4/22 - S - PS		737	352	1089	20.8
4SR 4/30 - S - PS		963	484	1447	28.4
4SR 4/40 - S - PS		1284	574	1858	40.4
4SR 4/54 - S - PS		1684	664	2348	40.0
4SR 4/72 - S - PS		2134	764	2898	54.4
4SR 6/4 - S - PS		289	237	526	10.0
4SR 6/6 - S - PS		352	257	609	12.4
4SR 6/9 - S - PS		446	272	718	14.0
4SR 6/13 - S - PS		598	297	895	17.3
4SR 6/17 - S - PS		723	352	1075	20.4
4SR 6/24 - S - PS		969	484	1453	27.3
4SR 6/32 - S - PS		1247	574	1821	35.2
4SR 6/43 - S - PS		1618	664	2282	45.0
4SR 6/58 - S - PS	**2"**	2161	764	2925	55.0
4SR 8/4 - S - PS		289	257	546	11.1
4SR 8/7 - S - PS		382	272	654	14.3
4SR 8/9 - S - PS		446	297	743	15.0
4SR 8/13 - S - PS		598	352	950	18.8
4SR 8/17 - S - PS		723	484	1207	25.8
4SR 8/24 - S - PS		969	574	1543	33.7
4SR 8/32 - S - PS		1247	664	1911	39.4
4SR 8/43 - S - PS		1618	764	2382	49.0

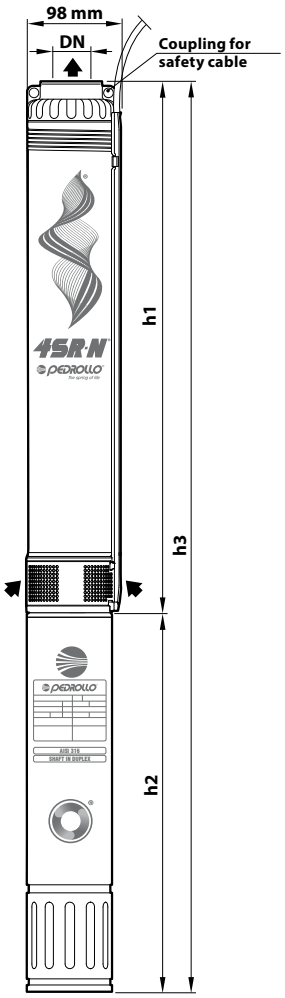


※ 4PD = rewindable in oil filled motor

※ 4PS = encapsulated water filled motor

DIMENSIONS AND WEIGHT

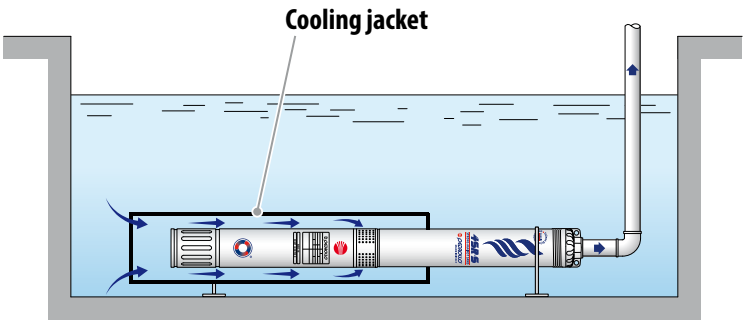
TYPE	DN	DIMENSIONS mm			kg	TYPE	DN	DIMENSIONS mm			kg
Single-phase ※		h1	h2	h3		**Single-phase ※**		h1	h2	h3	
4SRm 10/5 - N - PD		430	357	787	12.4	**4SRm 10/5 - N - PS**		430	272	702	13.0
4SRm 10/7 - N - PD		532	397	929	16.7	**4SRm 10/7 - N - PS**		532	312	844	17.7
4SRm 10/9 - N - PD		633	437	1070	18.9	**4SRm 10/9 - N - PS**		633	352	985	20.6
4SRm 10/13 - N - PD		837	492	1329	25.6	**4SRm 10/13 - N - PS**		837	402	1239	24.9
4SRm 12/5 - N - PD		488	357	845	13.0	**4SRm 12/5 - N - PS**		488	272	760	13.5
4SRm 12/7 - N - PD	**2"**	613	397	1010	15.5	**4SRm 12/7 - N - PS**	**2"**	613	312	925	16.5
4SRm 12/9 - N - PD		738	437	1175	18.5	**4SRm 12/9 - N - PS**		738	352	1090	20.0
4SRm 12/13 - N - PD		989	492	1481	23.5	**4SRm 12/13 - N - PS**		989	402	1391	23.0
4SRm 15/6 - N - PD		550	397	947	16.0	**4SRm 15/6 - N - PS**		550	312	862	16.0
4SRm 15/8 - N - PD		676	437	1113	19.5	**4SRm 15/8 - N - PS**		676	352	1028	19.5
4SRm 15/12 - N - PD		926	492	1418	22.5	**4SRm 15/12 - N - PS**		926	402	1328	22.5
Three-phase ※						**Three-phase ※**					
4SR 10/5 - N - PD		430	357	787	12.4	**4SR 10/5 - N - PS**		430	257	687	11.8
4SR 10/7 - N - PD		532	372	904	14.2	**4SR 10/7 - N - PS**		532	272	804	13.9
4SR 10/9 - N - PD		633	397	1030	15.9	**4SR 10/9 - N - PS**		633	297	930	16.9
4SR 10/13 - N - PD		837	437	1274	19.2	**4SR 10/13 - N - PS**		837	352	1189	20.9
4SR 10/18 - N - PD		1092	450	1542	23.0	**4SR 10/18 - N - PS**		1092	484	1576	26.8
4SR 10/24 - N - PD		1398	625	2023	32.4	**4SR 10/24 - N - PS**		1398	574	1972	37.4
4SR 10/32 - N - PD		1805	725	2530	43.4	**4SR 10/32 - N - PS**		1805	664	2469	43.8
4SR 10/43 - N - PD		2366	845	3211	52.0	**4SR 10/43 - N - PS**		2366	764	3130	52.4
4SR 12/5 - N - PD		488	357	845	13.0	**4SR 12/5 - N - PS**		488	257	745	12.0
4SR 12/7 - N - PD		613	372	985	14.5	**4SR 12/7 - N - PS**		613	272	885	14.5
4SR 12/9 - N - PD		738	397	1135	17.0	**4SR 12/9 - N - PS**		738	297	1035	18.0
4SR 12/13 - N - PD	**2"**	989	437	1426	20.5	**4SR 12/13 - N - PS**	**2"**	989	352	1341	22.0
4SR 12/18 - N - PD		1302	450	1752	25.0	**4SR 12/18 - N - PS**		1302	484	1786	25.6
4SR 12/24 - N - PD		1677	625	2302	34.5	**4SR 12/24 - N - PS**		1677	574	2251	38.0
4SR 12/32 - N - PD		2178	725	2903	46.1	**4SR 12/32 - N - PS**		2178	664	2842	46.5
4SR 12/40 - N - PD		2679	845	3524	54.0	**4SR 12/40 - N - PS**		2679	764	3443	54.0
4SR 15/6 - N - PD		550	372	922	15.0	**4SR 15/6 - N - PS**		550	272	822	14.0
4SR 15/8 - N - PD		676	397	1073	17.9	**4SR 15/8 - N - PS**		676	297	973	17.5
4SR 15/12 - N - PD		926	437	1363	22.4	**4SR 15/12 - N - PS**		926	352	1278	21.5
4SR 15/16 - N - PD		1176	450	1626	25.4	**4SR 15/16 - N - PS**		1176	484	1660	27.5
4SR 15/21 - N - PD		1489	625	2114	33.0	**4SR 15/21 - N - PS**		1489	574	2063	36.5
4SR 15/29 - N - PD		1990	725	2715	48.2	**4SR 15/29 - N - PS**		1990	664	2654	45.0
4SR 15/39 - N - PD		2616	845	3461	58.0	**4SR 15/39 - N - PS**		2616	764	3380	53.5



※ 4PD = rewindable oil filled motor

※ 4PS = encapsulated water filled motor

EXAMPLES OF INSTALLATION



COOLING JACKET

※ When the pump is installed in reservoirs, rivers, or lakes, it requires an external cooling jacket (flow generator) to ensure sufficient water flow across the motor surface, preventing overheating.

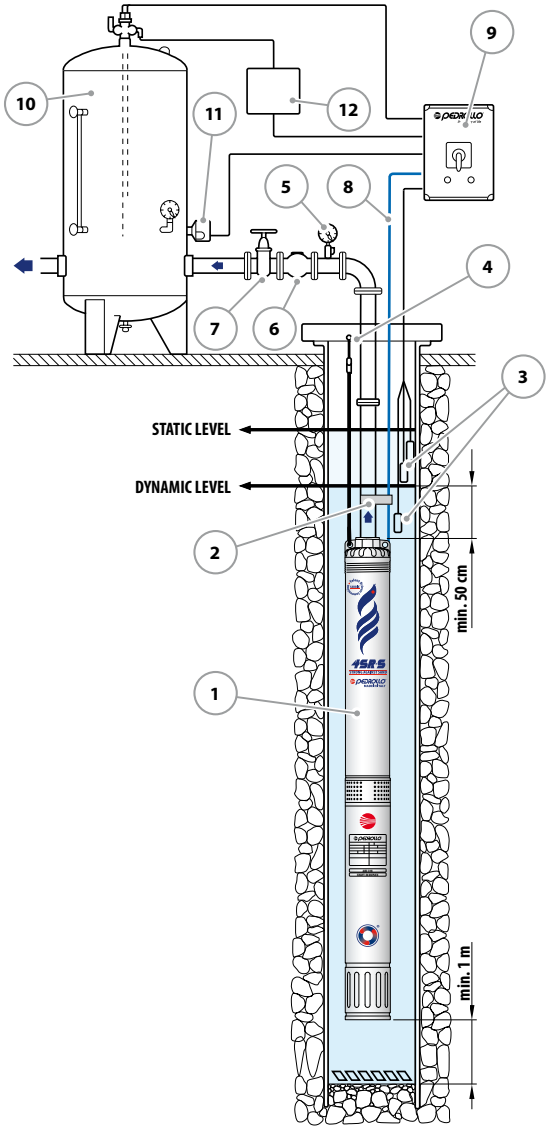
※ Recommended for power ratings from 3 kW to 7.5 kW



※ The **4SR** pumps are suitable for wells with a minimum diameter of **4"** (**100 mm**).

※ The submersible pump must be lowered into the well through the delivery pipe to a depth that ensures it remains fully submerged, maintaining at least 50 cm or one metre from the bottom of the well, even if liquid levels decrease during operation.

※ It is advisable to secure the submersible pump using a stainless-steel cable connected to appropriate attachments on the delivery port.



COMPONENTS

1) Submersible pump
2) Fixing Ties
3) Level control probes
4) Bracket and anchor cable
5) Pressure Gauge
6) Check valve
7) Flow control gate valve
8) Electrical power supply cable
9) Control panel
10) Autoclave tank
11) Pressure switch
12) Solenoid valve/electric compressor

6SR 6" submersible pumps

Clean water
(Maximum sand content 100 g/m³)

Civil use

Agricultural use



※ 6SR submersible pumps: designed with special materials to resist sand abrasion for long-lasting performance

PERFORMANCE RANGE

- Flow rate up to **1000 l/min** (60 m³/h)
- Head up to **390 m**

INSTALLATION AND USE

Designed to transfer clean water with sand content up to **100 g/m³**. Highly efficient and reliable, they are suitable for industrial, civil, and agricultural applications, such as water distribution coupled with pressure tanks, irrigation, pressure boosting, fire-fighting systems, and more.

INCLUDES

※ Three-phase electric motor 400 V - 50 Hz
The pump can be supplied with motor:
– **6PD** rewindable and oil filled
– **6PSR** rewindable and water filled
※ **4 m** power cable

APPLICATION LIMITS

- Liquid temperature up to **+35 °C**
- Maximum sand content **100 g/m³**
- Maximum operating depth below water level:
  – **200 m** with 6PD motors
  – **150 m** with 6PSR motors
- Operation:
  – in vertical position
  – horizontally with the following limits: up to **12 stages** or up to **11 kW**
- Starts per hour: **20** at regular intervals
- Minimum cooling flow **8 cm/s**
- Continuous running duty **S1**

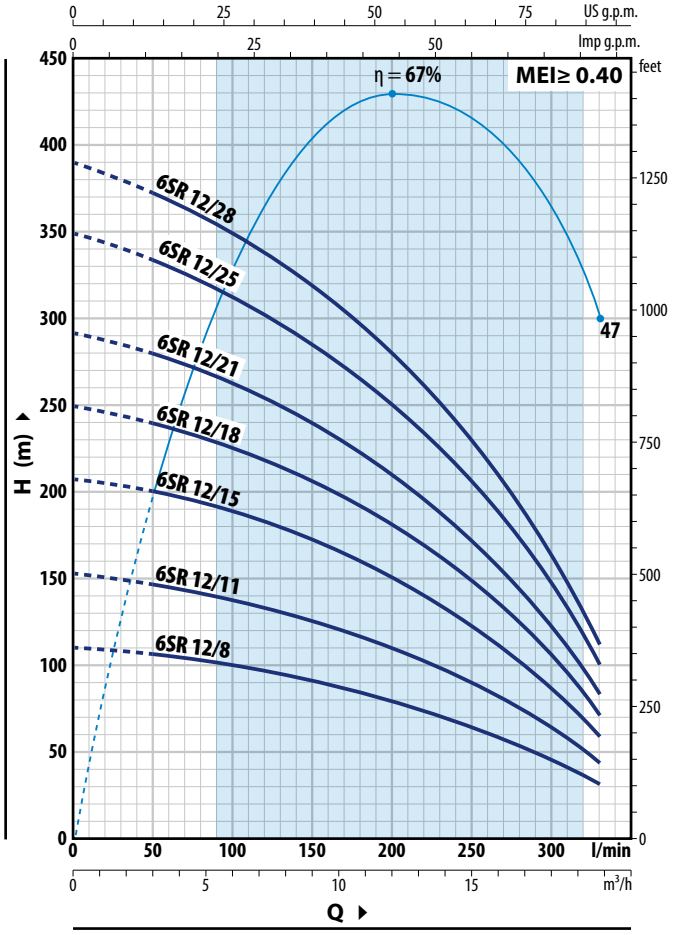
AVAILABLE UPON REQUEST

※ 6SR-HYD pumps with double cable cover for coupling with 400/690 V ⅄/Δ dual voltage motors (star/delta)
※ Other voltages
※ Cooling jacket kit complete with filter and supinlets

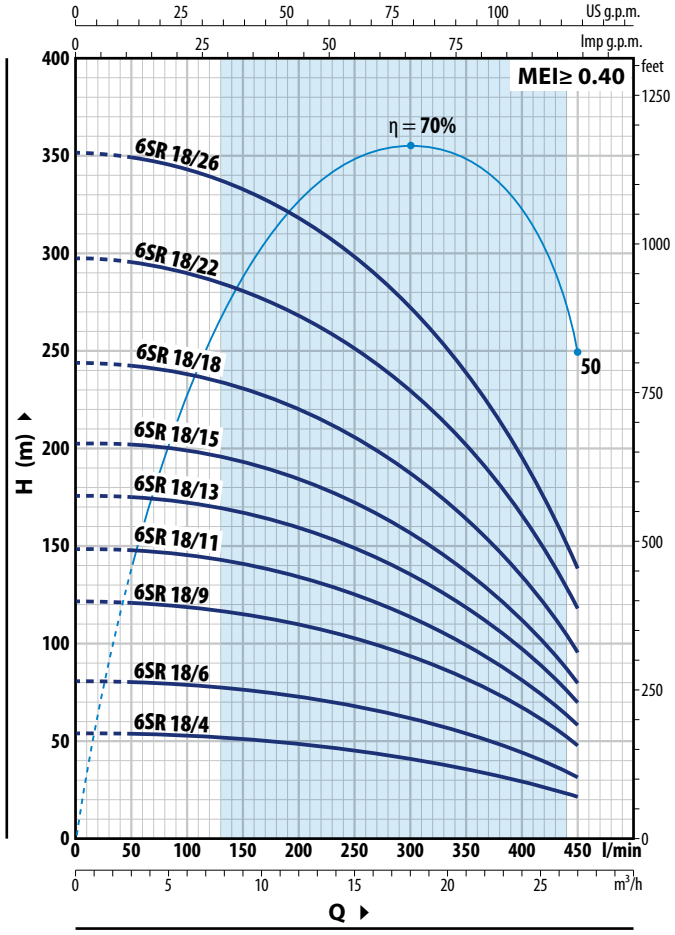
CURVES AND PERFORMANCE DATA

50 Hz

6SR 12



6SR 18



6SR 12

TYPE	POWER (P2)		Q m³/h	0	3.0	6.0	9.0	12.0	15.0	18.0	19.8
Three-phase	kW	HP	l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**330**
6SR 12/8	4	5.5		111	106	100	91	80	66	47	32
6SR 12/11	5.5	7.5		153	146	138	125	110	91	65	44
6SR 12/15	7.5	10		208	199	189	171	150	124	88	60
6SR 12/18	9.2	12.5	**H** metres	250	239	225	205	180	149	106	72
6SR 12/21	11	15		292	279	263	239	210	174	124	84
6SR 12/25	13	17.5		349	331	313	285	250	206	147	100
6SR 12/28	15	20		390	371	350	319	280	231	165	112

6SR 18

TYPE	POWER (P2)		Q m³/h	0	3	6	9	12	15	18	21	24	27
Three-phase	kW	HP	l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**450**
6SR 18/4	4	5.5		54	53.8	53	51	49	46	42	37	30	22
6SR 18/6	5.5	7.5		81	80.5	79	77	74	69	63	55	45	32
6SR 18/9	7.5	10		122	121	119	116	111	103	94	83	68	48
6SR 18/11	9.2	12.5		149	148	145.5	141	135	126	115	101	83	59
6SR 18/13	11	15	**H** metres	176	175	172	167	160	149	136	120	98	70
6SR 18/15	13	17.5		203	202	199	193	185	172	157	138	113	80
6SR 18/18	15	20		244	242	238	231	221	206	188	165	135	96
6SR 18/22	18.5	25		298	296	291	282	270	252	230	202	165	118
6SR 18/26	22	30		352	350	344	334	320	298	272	239	195	139

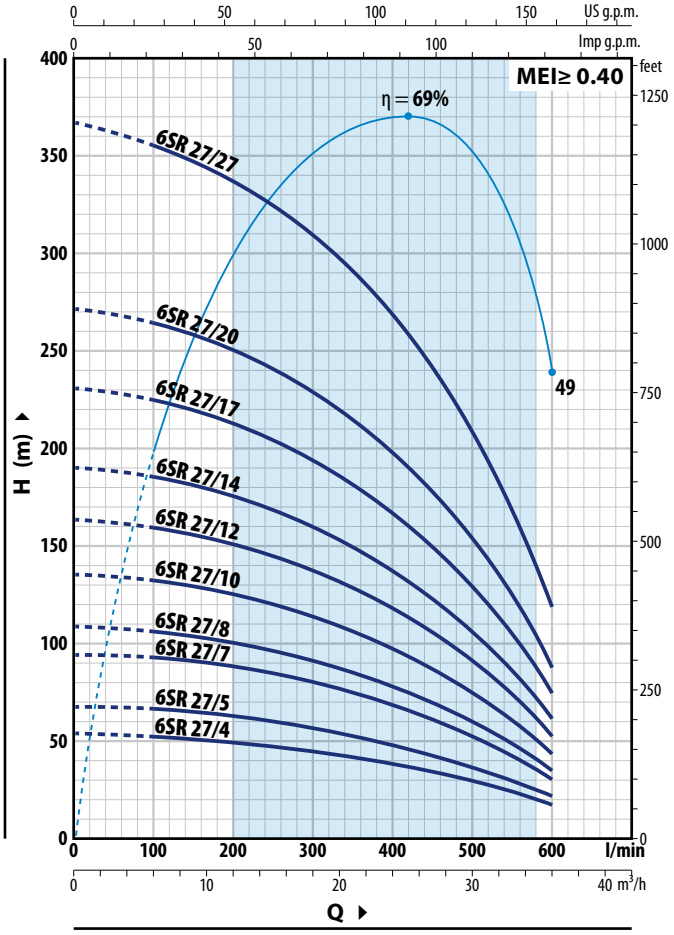
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

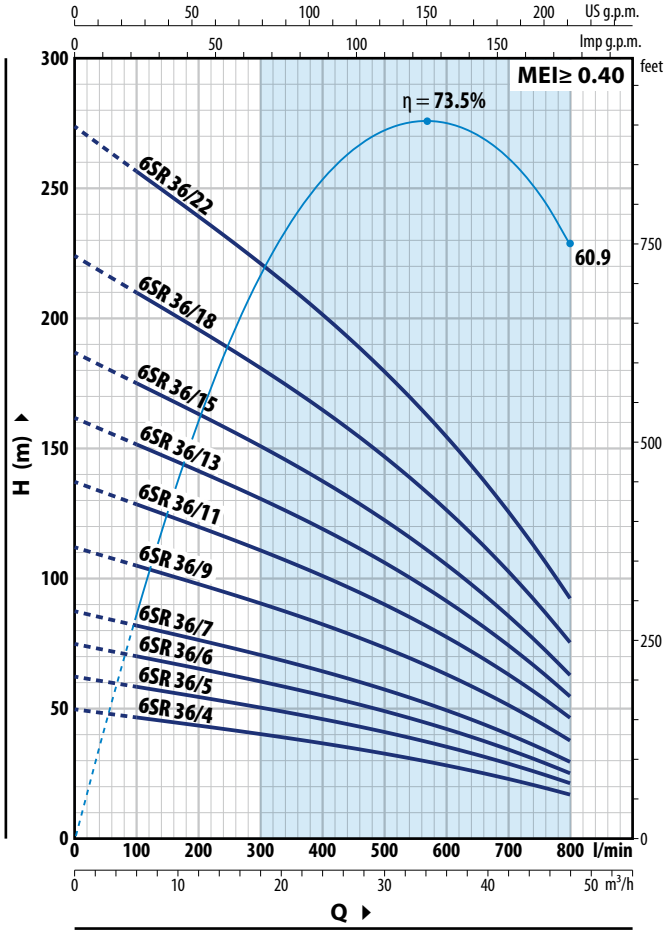
CURVES AND PERFORMANCE DATA

50 Hz

6SR 27



6SR 36



6SR 27

TYPE	POWER (P2)		Q m³/h	0	6	12	18	24	30	36
Three-phase	kW	HP	l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**
6SR 27/4	4	5.5	H metres	54	53	49	45	40	30	18
6SR 27/5	5.5	7.5		68	66	62	57	50	37	22
6SR 27/7	7.5	10		95	92	87	80	70	52	31
6SR 27/8	9.2	12.5		109	106	99	91	80	59	35
6SR 27/10	11	15		136	132	124	114	100	74	44
6SR 27/12	13	17.5		164	159	149	137	120	89	53
6SR 27/14	15	20		191	185	174	160	140	104	62
6SR 27/17	18.5	25		231	224	211	194	170	126	75
6SR 27/20	22	30		272	264	248	228	200	148	88
6SR 27/27	30	40		367	356	335	308	270	205	119

6SR 36

TYPE	POWER (P2)		Q m³/h	0	6	12	18	24	30	36	42	48
Three-phase	kW	HP	l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**800**
6SR 36/4	4	5.5	H metres	50	46.5	43.5	40	36.5	32.5	28	23	17
6SR 36/5	5.5	7.5		62.5	58.5	54.5	50.5	46	41	35	28.5	21
6SR 36/6	5.5	7.5		75	70	65.5	60.5	55	49	42	34.5	25
6SR 36/7	7.5	10		87	82	76	70	64	57	49	40	29.5
6SR 36/9	9.2	12.5		112	105	98	91	83	74	63.5	51.5	37.5
6SR 36/11	11	15		137	128	120	111	101	90	77	63	46
6SR 36/13	13	17.5		162	152	142	131	119	106	91	74.5	54.5
6SR 36/15	15	20		187	175	163	151	138	123	105	86	63
6SR 36/18	18.5	25		224	210	196	181	165	147	127	103	75
6SR 36/22	22	30		274	257	239	221	202	180	155	126	92

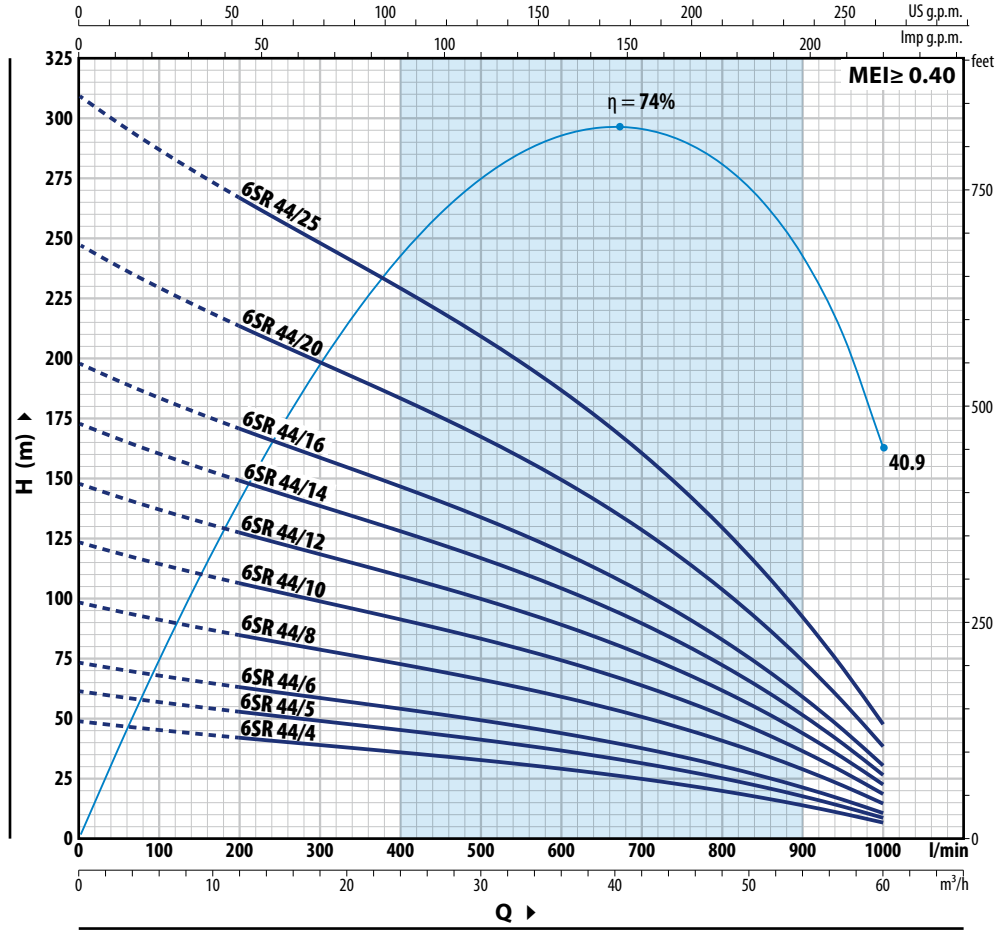
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

CURVES AND PERFORMANCE DATA

50 Hz

6SR 44



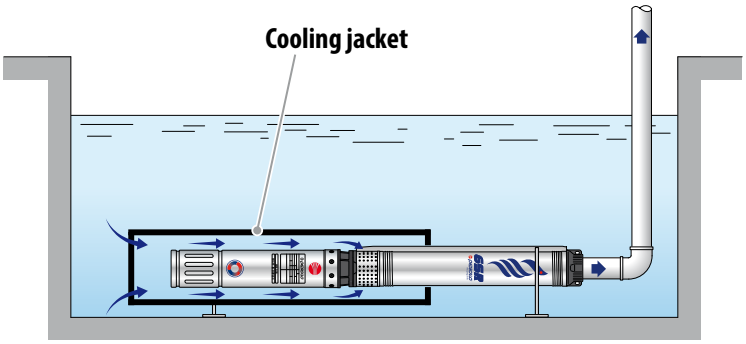
6SR 44

TYPE	POWER (P2)		Q m³/h	0	12	18	24	30	36	42	48	54	60
Three-phase	kW	HP	l/min	**0**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**900**	**1000**
6SR 44/4	4	5.5		49.5	43	40	37	33.5	30	25.8	21	15	8
6SR 44/5	5.5	7.5		62	53.5	49.5	46	42	37.5	32.5	26	18.7	10
6SR 44/6	7.5	10		74	64	59.5	55	50.5	45	38.5	31.5	22.4	11.5
6SR 44/8	9.2	12.5		99	86	80	74	67	60	51.5	41.5	30	15.5
6SR 44/10	11	15		124	107	99	92	84	75	64.5	52	37.5	19.5
6SR 44/12	13	17.5	**H** metres	149	128	119	110	101	90	77	62.5	45	23.5
6SR 44/14	15	20		174	150	139	129	118	105	90	73	52.5	27.5
6SR 44/16	18.5	25		198	171	159	147	134	120	103	83	59.5	31
6SR 44/20	22	30		248	214	199	184	168	150	129	104	75	39
6SR 44/25	30	40		310	267	249	230	210	188	161	130	93	49

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

EXAMPLES OF INSTALLATION



COOLING JACKET

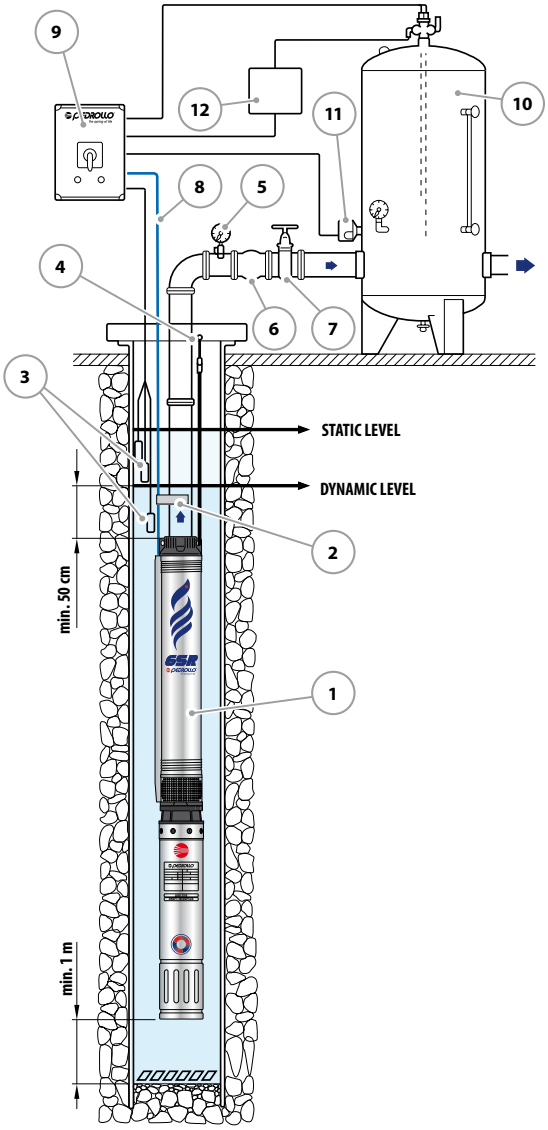
※ When the pump is installed in reservoirs, rivers, or lakes, it requires an external cooling jacket (flow generator) to ensure sufficient water flow across the motor surface, preventing overheating.



※ The **6SR** pumps are suitable for wells with a minimum diameter of **6"** (**153 mm**).

※ The submersible pump must be lowered into the well through the delivery pipe to a depth that ensures it remains fully submerged, maintaining at least 50 cm or one metre from the bottom of the well, even if liquid levels decrease during operation.

※ It is advisable to secure the submersible pump using a stainless-steel cable connected to appropriate attachments on the delivery port.

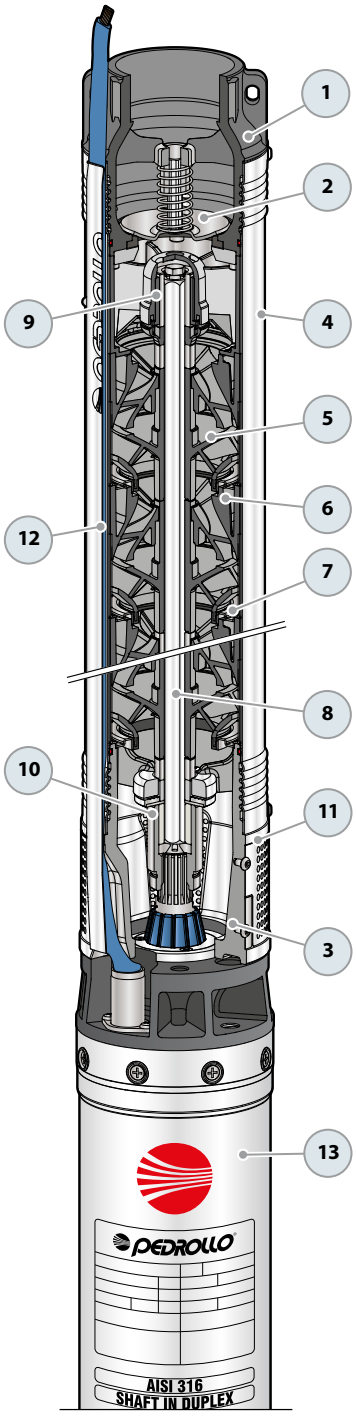


COMPONENTS

1) Submersible pump
2) Fixing Ties
3) Level control probes
4) Bracket and anchor cable
5) Pressure Gauge
6) Check valve
7) Flow control gate valve
8) Electrical power supply cable
9) Control panel
10) Autoclave tank
11) Pressure switch
12) Solenoid valve/electric compressor

MATERIALS AND COMPONENTS

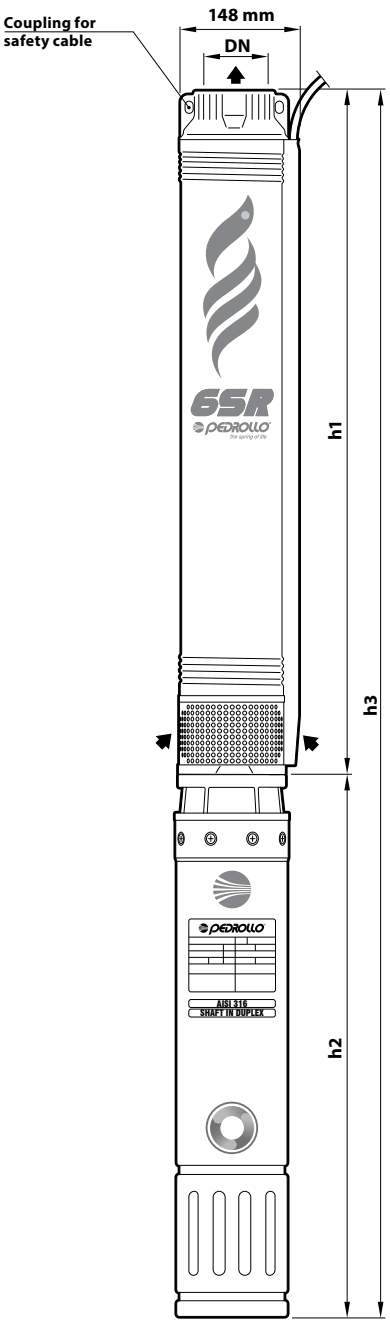
1	**Delivery port**	Cast iron with cataphoresis treatment with thread according to ISO 228/1
2	**Check valve**	Stainless steel **AISI 304** stainless steel
3	**Motor bracket**	Cast iron with cataphoresis treatment sized to NEMA standards
4	**External sleeve**	**AISI 304** stainless steel
5	**Impellers**	Noryl™ and coated with special sand-resistant elastomer
6	**Diffusers**	Noryl™
7	**Diffuser boxes**	**AISI 304** stainless steel
8	**Pump shaft**	**AISI 304** stainless steel
9	**Pump bearings**	Made of **AISI 316L** stainless steel coated with chromium oxide to resist sand
10	**Tow coupling**	**AISI 420** stainless steel
11	**Filter**	**AISI 304** stainless steel
12	**Cable sheath**	**AISI 304** stainless steel
13	**Motor 6"**	※ **6PD = rewindable oil filled motor** ※ **6PSR = rewindable in water filled motor**



DIMENSIONS AND WEIGHT

TYPE **Three-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
6SR 12/8 - PD		714	595	1309	55.0
6SR 12/11 - PD		845	625	1470	58.3
6SR 12/15 - PD		1063	660	1723	67.8
6SR 12/18 - PD		1193	700	1893	74.6
6SR 12/21 - PD		1324	765	2089	83.6
6SR 12/25 - PD		1497	820	2317	92.4
6SR 12/28 - PD		1627	820	2447	94.8
6SR 18/4 - PD		541	595	1136	50.5
6SR 18/6 - PD		628	625	1253	53.0
6SR 18/9 - PD		758	660	1418	60.4
6SR 18/11 - PD		845	700	1545	66.5
6SR 18/13 - PD		976	765	1741	76.4
6SR 18/15 - PD		1063	820	1883	83.6
6SR 18/18 - PD	**3"**	1193	820	2013	85.9
6SR 18/22 - PD		1367	883	2250	98.8
6SR 18/26 - PD		1541	953	2494	109.1
6SR 27/4 - PD		579	595	1174	51.0
6SR 27/5 - PD		632	625	1257	52.9
6SR 27/7 - PD		738	660	1398	59.8
6SR 27/8 - PD		790	700	1490	65.2
6SR 27/10 - PD		896	765	1661	72.6
6SR 27/12 - PD		1047	820	1867	82.8
6SR 27/14 - PD		1153	820	1973	84.5
6SR 27/17 - PD		1311	883	2194	97.0
6SR 27/20 - PD		1470	953	2423	106.9
6SR 27/27 - PD		1840	1098	2938	130.1

TYPE **Three-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
6SR 12/8 - PSR		714	620	1334	71.6
6SR 12/11 - PSR		845	620	1465	73.9
6SR 12/15 - PSR		1063	670	1733	84.7
6SR 12/18 - PSR		1193	700	1893	91.0
6SR 12/21 - PSR		1324	750	2074	100.3
6SR 12/25 - PSR		1497	780	2277	106.4
6SR 12/28 - PSR		1627	840	2467	115.2
6SR 18/4 - PSR		541	620	1161	67.1
6SR 18/6 - PSR		628	620	1248	68.6
6SR 18/9 - PSR		758	670	1428	77.3
6SR 18/11 - PSR		845	700	1545	82.9
6SR 18/13 - PSR		976	750	1726	93.1
6SR 18/15 - PSR		1063	780	1843	97.6
6SR 18/18 - PSR	**3"**	1193	840	2033	106.3
6SR 18/22 - PSR		1367	890	2257	116.4
6SR 18/26 - PSR		1541	975	2516	130.5
6SR 27/4 - PSR		579	620	1199	67.6
6SR 27/5 - PSR		632	620	1252	68.5
6SR 27/7 - PSR		738	670	1408	76.7
6SR 27/8 - PSR		790	700	1490	81.6
6SR 27/10 - PSR		896	750	1646	89.3
6SR 27/12 - PSR		1047	780	1827	96.8
6SR 27/14 - PSR		1153	840	1993	104.9
6SR 27/17 - PSR		1311	890	2201	114.6
6SR 27/20 - PSR		1470	975	2445	127.3
6SR 27/27 - PSR		1840	1215	3055	165.9



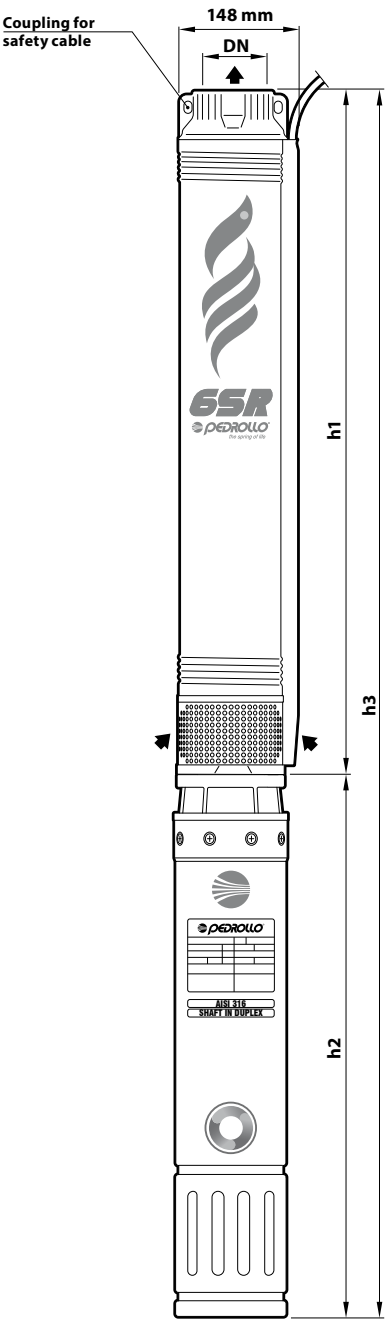
※ 6PD = rewindable oil filled motor

※ 6PSR = rewindable water filled motor

DIMENSIONS AND WEIGHT

TYPE **Three-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
6SR 36/4 - PD		761	595	1356	54.9
6SR 36/5 - PD		859	625	1484	57.6
6SR 36/6 - PD		958	625	1583	59.1
6SR 36/7 - PD		1056	660	1716	66.3
6SR 36/9 - PD		1253	700	1953	73.9
6SR 36/11 - PD		1450	765	2215	83.8
6SR 36/13 - PD		1646	820	2466	92.5
6SR 36/15 - PD		1843	820	2663	96.7
6SR 36/18 - PD		2138	883	3021	109.1
6SR 36/22 - PD		2532	953	3485	123.5
6SR 44/04 - PD	**3"**	761	595	1356	54.9
6SR 44/05 - PD		859	625	1484	57.6
6SR 44/06 - PD		958	660	1618	62.8
6SR 44/08 - PD		1154	700	1854	72.4
6SR 44/10 - PD		1351	765	2116	82.1
6SR 44/12 - PD		1548	820	2368	91.0
6SR 44/14 - PD		1745	820	2565	95.1
6SR 44/16 - PD		1942	883	2825	107.0
6SR 44/20 - PD		2335	953	3288	119.5
6SR 44/25 - PD		2827	1098	3925	144.2

TYPE **Three-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
6SR 36/4 - PSR		761	620	1381	71.5
6SR 36/5 - PSR		859	620	1479	73.2
6SR 36/6 - PSR		958	620	1578	74.7
6SR 36/7 - PSR		1056	670	1726	83.2
6SR 36/9 - PSR		1253	700	1953	90.3
6SR 36/11 - PSR		1450	750	2200	100.5
6SR 36/13 - PSR		1646	780	2426	106.5
6SR 36/15 - PSR		1843	840	2683	117.1
6SR 36/18 - PSR		2138	890	3028	126.7
6SR 36/22 - PSR		2532	975	3507	143.9
6SR 44/04 - PSR	**3"**	761	620	1381	71.5
6SR 44/05 - PSR		859	620	1479	73.2
6SR 44/06 - PSR		958	670	1628	79.7
6SR 44/08 - PSR		1154	700	1854	88.8
6SR 44/10 - PSR		1351	750	2101	98.8
6SR 44/12 - PSR		1548	780	2328	105.0
6SR 44/14 - PSR		1745	840	2585	115.5
6SR 44/16 - PSR		1942	890	2832	124.6
6SR 44/20 - PSR		2335	975	3310	139.9
6SR 44/25 - PSR		2827	1215	4042	175.2



※ 6PD = rewindable oil filled motor

※ 6PSR = rewindable water filled motor

6ST 6" stainless steel submersible pumps



Clean water

Agricultural use

Civil use

Industrial use

※ For reliable performance in tough conditions, our stainless steel pumps, such as the 6ST series, are recommended for their high quality, ensuring a long service life with exceptional mechanical strength and corrosion resistance.

PERFORMANCE RANGE

- Flow rate up to **1300 l/min** (78 m³/h)
- Head up to **490 m**

INSTALLATION AND USE

Experience exceptional energy savings with our completely stainless steel 6" submersible borehole pumps, the **6ST** series. Engineered with optimized diffuser and impeller geometry, they deliver unmatched efficiency.

Designed to transfer clean water with sand content up to **100 g/m³.** Highly efficient and reliable, they are suitable for **industrial, civil, and agricultural applications**, such as water distribution coupled with pressure tanks, irrigation, pressure boosting, fire-fighting systems, and more.

INCLUDES

※ Three-phase electric motor 400 V - 50 Hz The pump can be supplied with motor:
  – **6PD** rewindable and oil filled
  – **6PSR** rewindable and water filled

※ **4 m** power cable

APPLICATION LIMITS

- Liquid temperature up to **+35 °C**
- Sand content max. **100 g/m³**
- Maximum operating depth below water level:
  – **200 m** with 6PD motors
  – **150 m** with 6PSR motors
- Vertical operation
- Starts per hour: **20** at regular intervals
- Minimum cooling flow **8 cm/s**
- Continuous running duty **S1**

AVAILABLE UPON REQUEST

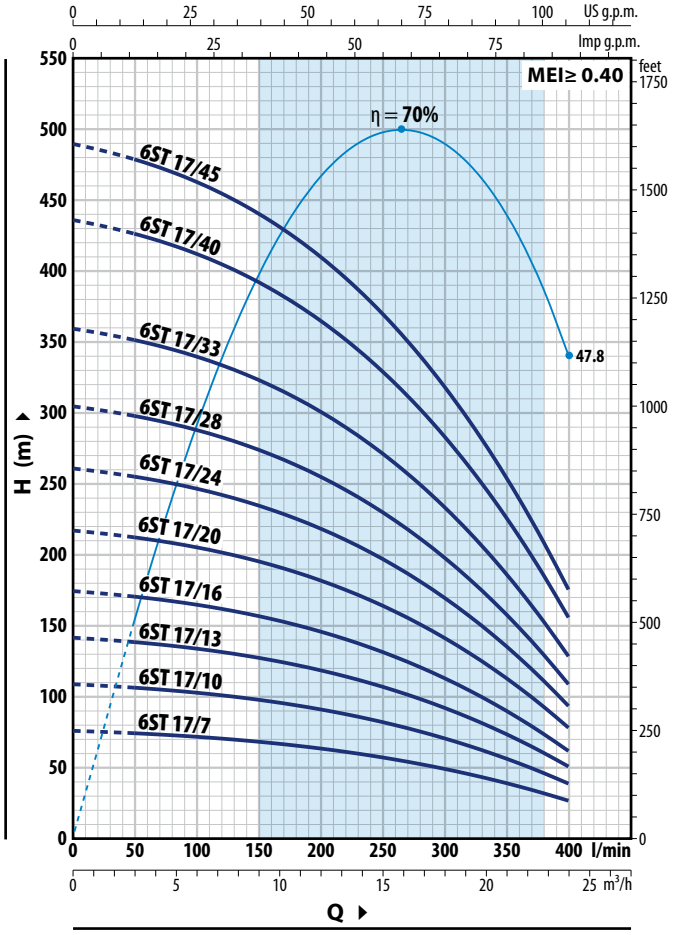
※ 6ST pumps with double cable cover for coupling with 400/690 V ⅄/Δ dual voltage motors (star/delta)

※ Other voltages

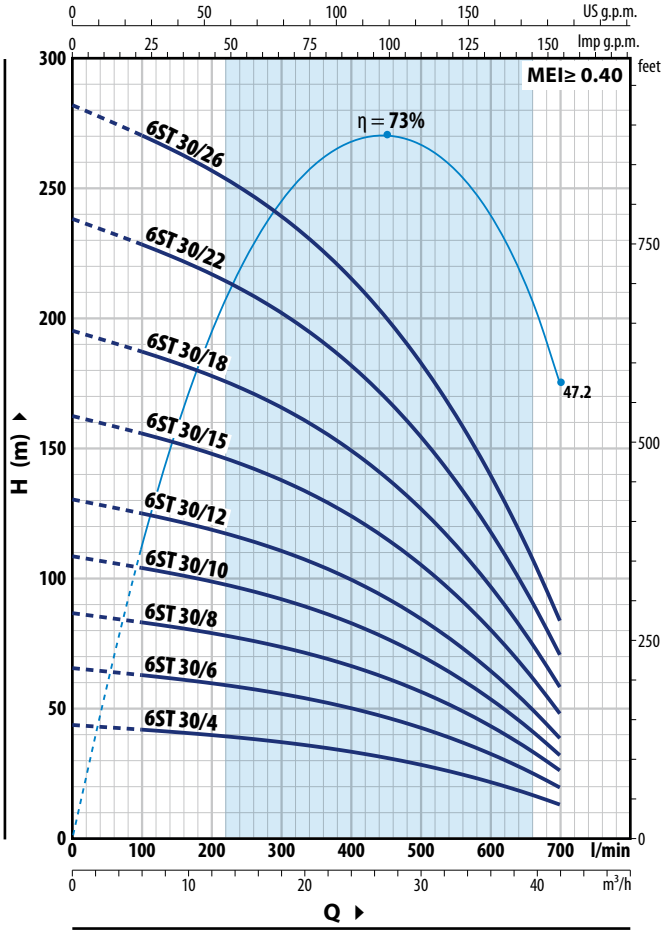
PERFORMANCE RANGE

50 Hz

6ST 17



6ST 30



6ST 17

TYPE	POWER (P2)		Q m³/h	0	3	6	9	12	15	18	21	24
Three-phase	kW	HP	l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**
6ST 17/7	4	5.5		76	75	72	68.5	64	57.5	49.5	39.5	27.5
6ST 17/10	5.5	7.5		109	107	103	98	91	82	71	56.5	39
6ST 17/13	7.5	10		142	139	134	127	119	107	92	73	50.5
6ST 17/16	9.2	12.5		174	170	165	157	146	132	113	90	62.5
6ST 17/20	11	15		218	213	206	196	182	165	142	113	78
6ST 17/24	13	17.5	**H** metres	262	256	247	235	219	198	170	136	94
6ST 17/28	15	20		305	298	288	274	255	230	198	158	109
6ST 17/33	18.5	25		360	352	340	323	301	272	234	187	129
6ST 17/40	22	30		436	426	412	392	365	329	283	226	156
6ST 17/45 (1)	26	35		490	479	464	441	411	370	319	254	175

6ST 30

TYPE	POWER (P2)		Q m³/h	0	6	12	18	24	30	36	42
Three-phase	kW	HP	l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**	**700**
6ST 30/4	4	5.5		43.5	41.5	39.5	37	33	28	21.5	13
6ST 30/6	5.5	7.5		65	62.5	59.5	55	49.5	42	32.5	19.5
6ST 30/8	7.5	10		87	83	79	74	66.5	56.5	43	25.5
6ST 30/10	9.2	12.5		108	104	99	92	83	70	54	32
6ST 30/12	11	15	**H** metres	130	125	119	110	99	84	64.5	38.5
6ST 30/15	13	17.5		163	156	148	138	124	106	81	48
6ST 30/18	15	20		195	187	178	166	149	127	97	58
6ST 30/22	18.5	25		239	229	217	202	182	155	118	71
6ST 30/26	22	30		282	270	257	239	215	183	140	84

Q = Flow rate **H** = Total manometric head

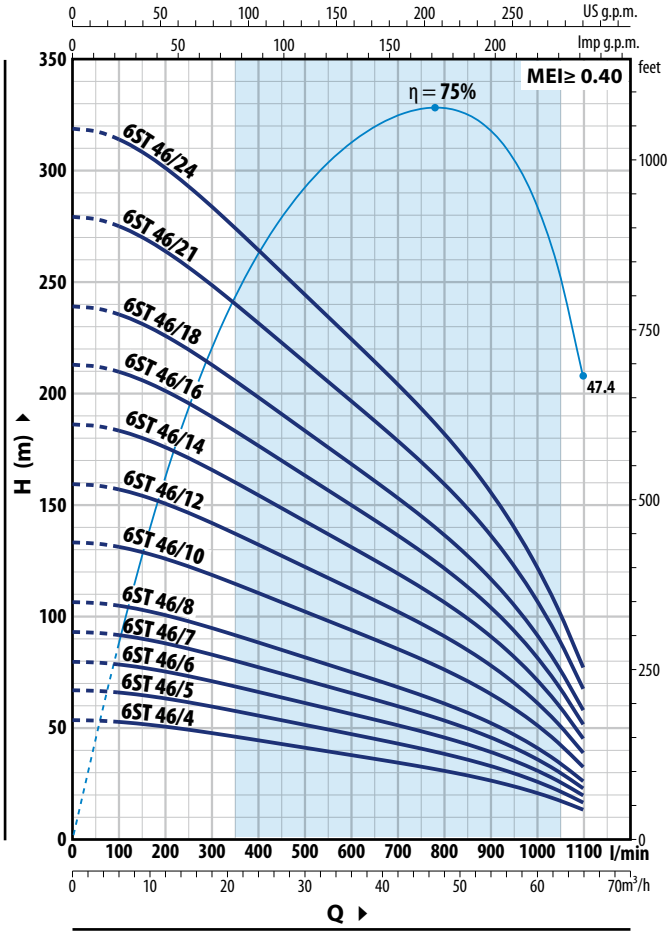
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

(1) For pumps equipped with 6PD motor: 40 HP motor

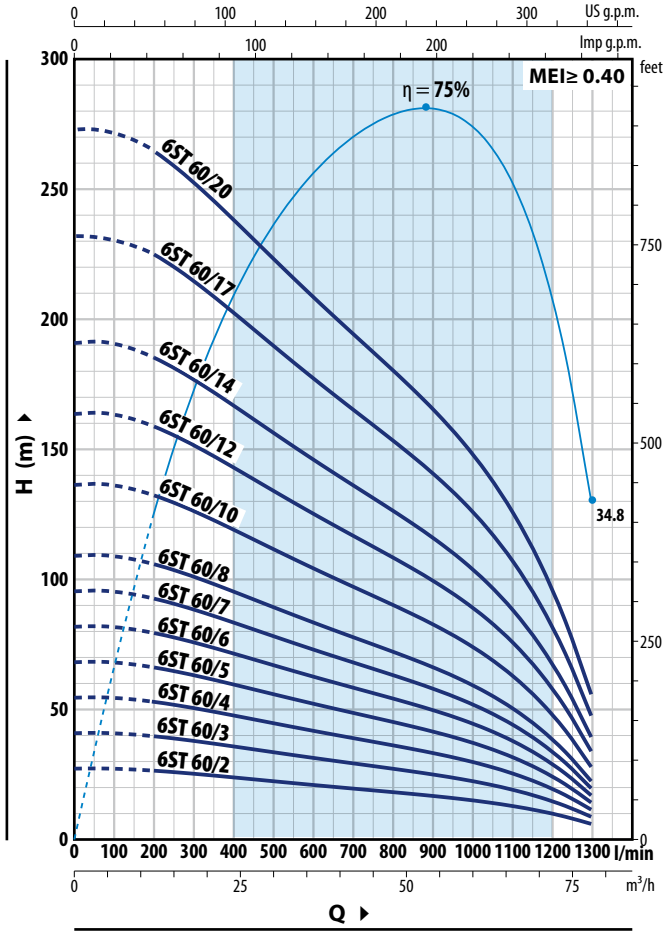
PERFORMANCE RANGE

50 Hz

6ST 46



6ST 60



6ST 46

TYPE	POWER(P2)		Q	m³/h	0	6	12	18	24	30	36	42	48	54	60	66
Three-phase	kW	HP		l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**900**	**1000**	**1100**
6ST 46/4	5.5	7.5	**H** metres		53	52.5	50.5	47.5	44	41	37.5	34	30.5	26	20.4	13
6ST 46/5	7.5	10			66.5	65.5	63	59	55	51	47	42.5	38	32.5	25.5	16
6ST 46/6	9.2	12.5			80	79	75	71	66	61	56	51	45.5	39	30.5	19.5
6ST 46/7	11	15			93	92	88	83	77	71	65.5	59.5	53	45.5	36	22.5
6ST 46/8	13	17.5			106	105	101	95	88	82	75	68	61	52	41	26
6ST 46/10	15	20			133	131	126	118	110	102	94	85	76	65	51	32
6ST 46/12	18.5	25			160	157	151	142	132	122	112	102	91	78	61.5	38.5
6ST 46/14	22	30			186	183	176	166	154	143	131	119	106	91	72	45
6ST 46/16	22	30			213	210	201	189	177	163	150	136	122	104	82	51.5
6ST 46/18 (1)	26	35			239	236	226	213	199	184	169	153	137	117	92	58
6ST 46/21	30	40			279	275	264	249	232	214	197	179	160	137	107	67.5
6ST 46/24	37	50			319	314	302	284	265	245	225	205	182	156	123	77

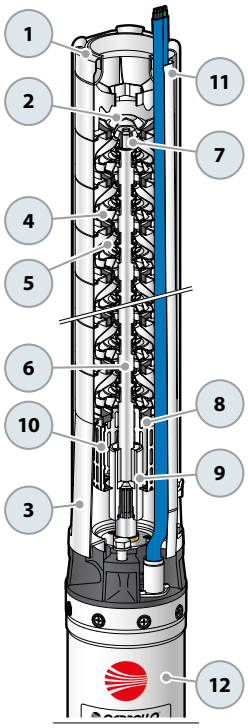
6ST 60

TYPE	POWER(P2)		Q	m³/h	0	12	18	24	30	36	48	60	72	78
Three-phase	kW	HP		l/min	**0**	**200**	**300**	**400**	**500**	**600**	**800**	**1000**	**1200**	**1300**
6ST 60/2	4	5.5	**H** metres		27.5	26.5	25.3	24	22.4	21	18	15	9.7	5.5
6ST 60/3	5.5	7.5			41	39.5	38	36	33.5	31.5	27	22.3	14.5	8.5
6ST 60/4	7.5	10			54.5	53	50.5	47.5	44.5	42	36	29.5	19.4	11
6ST 60/5	9.2	12.5			68.5	66	63	59.5	56	52.5	45	37	24.2	14
6ST 60/6	11	15			82	79	76	72	67	62.5	54.5	44.5	29	17
6ST 60/7	13	17.5			96	93	89	84	78	73	63.5	52	34	19.5
6ST 60/8	15	20			109	106	101	95	89	84	72.5	59.5	39	22.5
6ST 60/10	18.5	25			137	132	126	119	112	105	90	74	48.5	28
6ST 60/12	22	30			164	159	152	143	134	125	109	89	58	33.5
6ST 60/14 (1)	26	35			191	185	177	167	157	146	127	104	68	39
6ST 60/17	30	40			232	225	215	203	190	178	154	126	82	47.5
6ST 60/20	37	50			273	265	253	239	224	209	181	149	97	56

(1) For pumps equipped with 6PD motor: 40 HP motor

MATERIALS AND COMPONENTS

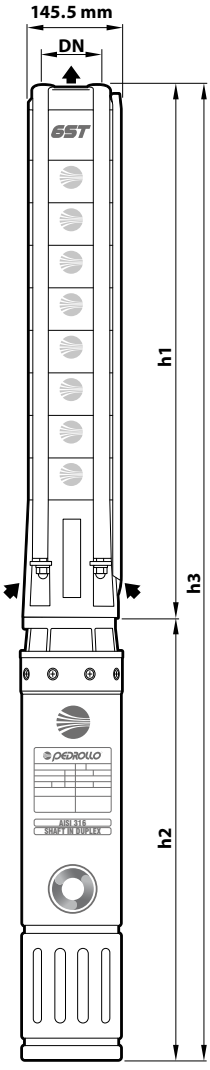
1	**Delivery port**	**AISI 304** stainless steel with thread according to ISO 228/1
2	**Check valve**	Stainless steel **AISI 304**
3	**Motor bracket**	Stainless steel **AISI 304**
4	**Impellers**	Stainless steel **AISI 304**
5	**Diffusers**	Stainless steel **AISI 304**
6	**Pump shaft**	Stainless steel **AISI 304**
7	**Pump bearings**	Special elastomer
8	**Wear rings**	Special elastomer
9	**Tow coupling**	Stainless steel **AISI 304**
10	**Filter**	Stainless steel **AISI 304**
11	**Cable sheath**	Stainless steel **AISI 304**
12	**Motor 6"**	**※ 6PD = rewindable oil filled motor** **※ 6PSR = rewindable oil water motor**



DIMENSIONS AND WEIGHT

TYPE	DN	DIMENSIONS mm			kg
Three-phase ※		h1	h2	h3	
6ST 17/7 - PD		695	595	1290	48.8
6ST 17/10 - PD		876	625	1501	55.3
6ST 17/13 - PD		1058	660	1718	63.3
6ST 17/16 - PD		1239	700	1939	69.4
6ST 17/20 - PD		1481	765	2246	79.2
6ST 17/24 - PD		1723	820	2543	95.0
6ST 17/28 - PD		1965	820	2785	99.8
6ST 17/33 - PD		2268	883	3151	117.4
6ST 17/40 - PD		2691	953	3644	132.3
6ST 17/45 - PD		2994	1098	4092	154.3
6ST 30/4 - PD		655	595	1250	46.2
6ST 30/6 - PD		847	625	1472	54.2
6ST 30/8 - PD		1039	660	1699	62.1
6ST 30/10 - PD		1231	700	1931	68.2
6ST 30/12 - PD		1423	765	2188	76.8
6ST 30/15 - PD		1711	820	2531	93.2
6ST 30/18 - PD		1999	820	2819	98.7
6ST 30/22 - PD		2383	883	3266	117.0
6ST 30/26 - PD		2767	953	3720	131.0
6ST 46/4 - PD		723	625	1348	52.1
6ST 46/5 - PD		836	660	1496	56.6
6ST 46/6 - PD	**3"**	949	700	1649	61.3
6ST 46/7 - PD		1062	765	1827	69.4
6ST 46/8 - PD		1175	820	1995	81.6
6ST 46/10 - PD		1401	820	2221	87.0
6ST 46/12 - PD		1627	883	2510	102.9
6ST 46/14 - PD		1853	953	2806	112.8
6ST 46/16 - PD		2079	953	3032	118.2
6ST 46/18 - PD		2305	1098	3403	138.6
6ST 46/21 - PD		2644	1098	3742	146.1
6ST 46/24 - PD		2983	1233	4216	162.7
6ST 60/2 - PD		497	595	1092	43.4
6ST 60/3 - PD		610	625	1235	48.5
6ST 60/4 - PD		723	660	1383	54.4
6ST 60/5 - PD		836	700	1536	59.1
6ST 60/6 - PD		949	765	1714	67.3
6ST 60/7 - PD		1062	820	1882	79.4
6ST 60/8 - PD		1175	820	1995	81.6
6ST 60/10 - PD		1401	883	2284	97.5
6ST 60/12 - PD		1627	953	2580	108.4
6ST 60/14 - PD		1853	1098	2951	128.8
6ST 60/17 - PD		2192	1098	3290	137.4
6ST 60/20 - PD		2531	1233	3764	153.9

TYPE	DN	DIMENSIONS mm			kg
Three-phase ※		h1	h2	h3	
6ST 17/7 - PSR		695	620	1315	66.7
6ST 17/10 - PSR		876	620	1496	70.3
6ST 17/13 - PSR		1058	670	1728	81.0
6ST 17/16 - PSR		1239	700	1939	88.6
6ST 17/20 - PSR		1481	750	2231	100.4
6ST 17/24 - PSR		1723	780	2503	108.2
6ST 17/28 - PSR		1965	840	2805	120.4
6ST 17/33 - PSR		2268	890	3158	136.9
6ST 17/40 - PSR		2691	975	3666	156.3
6ST 17/45 - PSR		2994	1075	4069	172.3
6ST 30/4 - PSR		655	620	1275	65.5
6ST 30/6 - PSR		847	620	1467	69.2
6ST 30/8 - PSR		1039	670	1709	79.8
6ST 30/10 - PSR		1231	700	1931	87.4
6ST 30/12 - PSR		1423	750	2173	98.0
6ST 30/15 - PSR		1711	780	2491	106.4
6ST 30/18 - PSR		1999	840	2839	119.3
6ST 30/22 - PSR		2383	890	3273	137.0
6ST 30/26 - PSR		2767	975	3742	155.1
6ST 46/4 - PSR		723	620	1343	67.1
6ST 46/5 - PSR		836	670	1506	74.3
6ST 46/6 - PSR	**3"**	949	700	1649	80.4
6ST 46/7 - PSR		1062	750	1812	90.6
6ST 46/8 - PSR		1175	780	1955	95.8
6ST 46/10 - PSR		1401	840	2241	107.6
6ST 46/12 - PSR		1627	890	2517	119.0
6ST 46/14 - PSR		1853	975	2828	133.4
6ST 46/16 - PSR		2079	975	3054	142.2
6ST 46/18 - PSR		2305	1075	3380	156.6
6ST 46/21 - PSR		2644	1215	3859	182.1
6ST 46/24 - PSR		2983	1295	4278	198.7
6ST 60/2 - PSR		497	620	1117	61.3
6ST 60/3 - PSR		610	620	1230	63.5
6ST 60/4 - PSR		723	670	1393	72.1
6ST 60/5 - PSR		836	700	1536	78.3
6ST 60/6 - PSR		949	750	1699	88.4
6ST 60/7 - PSR		1062	780	1842	93.6
6ST 60/8 - PSR		1175	840	2015	102.2
6ST 60/10 - PSR		1401	890	2291	113.6
6ST 60/12 - PSR		1627	975	2602	129.0
6ST 60/14 - PSR		1853	1075	2928	143.4
6ST 60/17 - PSR		2192	1215	3407	172.4
6ST 60/20 - PSR		2531	1295	3826	189.9



※ 6PD = rewindable submersible oil filled motor

※ 6PSR = rewindable submersible water filled motor

4HR 4" submersible pumps in micro-cast stainless steel

Clean water
Agricultural use
Civil use
Industrial use



※ Featuring high mechanical resistance against both sand abrasion and corrosion, even in marine environments or brackish water installations, the 4HR pump is the ideal choice when durability and quality are paramount.

PERFORMANCE RANGE

- Flow rate up to **420 l/min** (25.2 m³/h)
- Head up to **176 m**

INSTALLATION AND USE

Submersible pump designed for 4" wells, constructed with durable micro-cast stainless steel.

Designed to transfer clean or brackish water with sand content up to 100 g/m³. Highly efficient and reliable, they are suitable for industrial, civil, and agricultural applications, such as water distribution coupled with pressure tanks, irrigation, pressure boosting, fire-fighting systems, and more.

INCLUDES

※ Electric motor
- Single-phase 230 V - 50 Hz
- Three-phase 400 V - 50 Hz

The pump can be supplied with a motor:
- **4PD** rewindable and oil filled
- **4PS** encapsulated and water filled

※ Power cable from:
- **2 m** for power ratings from 0.37 to 2.2 kW
- **3.6 m** for power ratings from 3 to 7.5 kW.

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Sand content max. **100 g/m³**
- Maximum operating depth below water level:
  - **200 m** with 4PD motors
  - **300 m** with 4PS motors
- Operation:
  - in vertical position
  - horizontally up to **12 stages**
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**
- Continuous running duty **S1**

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency

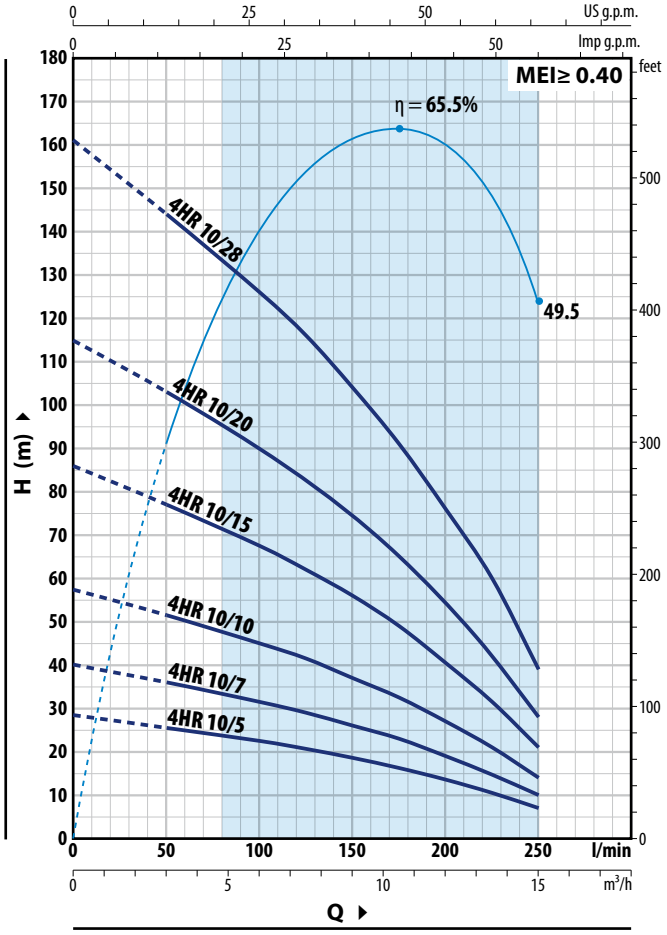
PATENTS - TRADE MARKS - MODELS

- Registered Community Model No. 004128619-0001

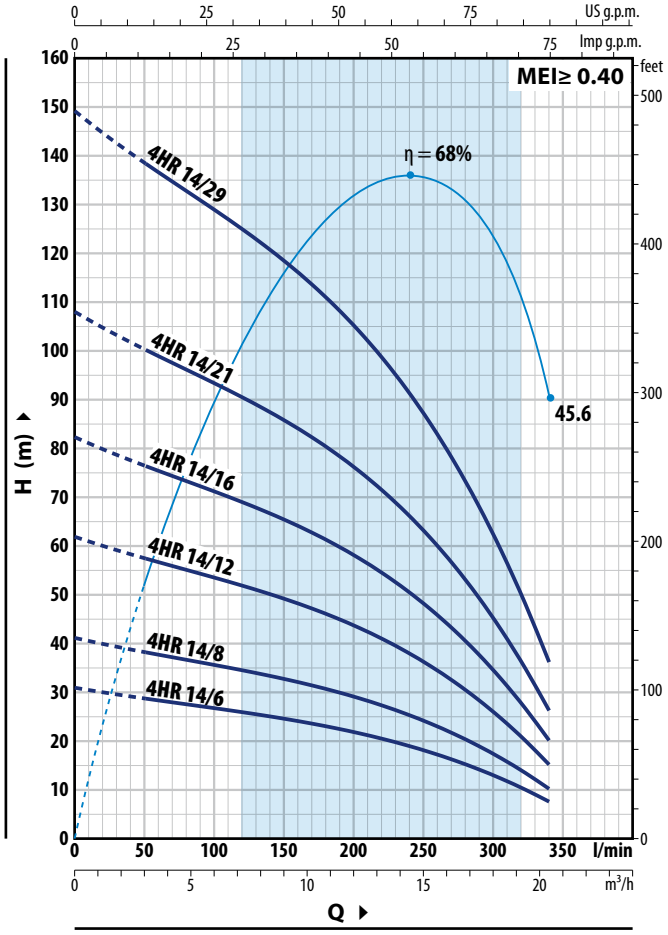
PERFORMANCE RANGE

50 Hz

4HR 10



4HR 14



4HR 10

TYPE		POWER (P2)		Q	m³/h	0	3.0	6.0	7.5	9.0	10.5	12.0	13.5	15.0
Single-phase	Three-phase	kW	HP		l/min	**0**	**50**	**100**	**125**	**150**	**175**	**200**	**225**	**250**
4HRm 10/5	4HR 10/5	0.75	1	H	metres	28.5	25.5	22.5	20.7	18.6	16.3	13.6	10.5	7
4HRm 10/7	4HR 10/7	1.1	1.5			40	36	31.5	29	26	23	19	14.7	10
4HRm 10/10	4HR 10/10	1.5	2			57.5	51.5	45	41.5	37	32.5	27	21	14
4HRm 10/15	4HR 10/15	2.2	3			86	77	67.5	62	56	49	40.5	31.5	21
–	4HR 10/20	3	4			115	103	90	83	74	65	54.5	42	28
–	4HR 10/28	4	5.5			161	144	126	116	104	91	76	60	39

4HR 14

TYPE		POWER (P2)		Q	m³/h	0	3.0	6.0	9.0	12.0	15.0	18.0	19.2	20.4
Single-phase	Three-phase	kW	HP		l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**320**	**340**
4HRm 14/6	4HR 14/6	1.1	1.5	H	metres	31	28.5	26.7	24.5	21.8	18	13	10.4	7.5
4HRm 14/8	4HR 14/8	1.5	2			41	38.5	35.5	32.5	29	24	17.2	13.8	10
4HRm 14/12	4HR 14/12	2.2	3			62	57.5	53.5	49	43.5	36	25.8	20.7	15
–	4HR 14/16	3	4			82	77	71	65.5	58	48	34.5	27.5	20
–	4HR 14/21	4	5.5			108	100	93	86	76	63	45	36.5	26.5
–	4HR 14/29	5.5	7.5			149	139	129	119	105	87	62.5	50	36.5

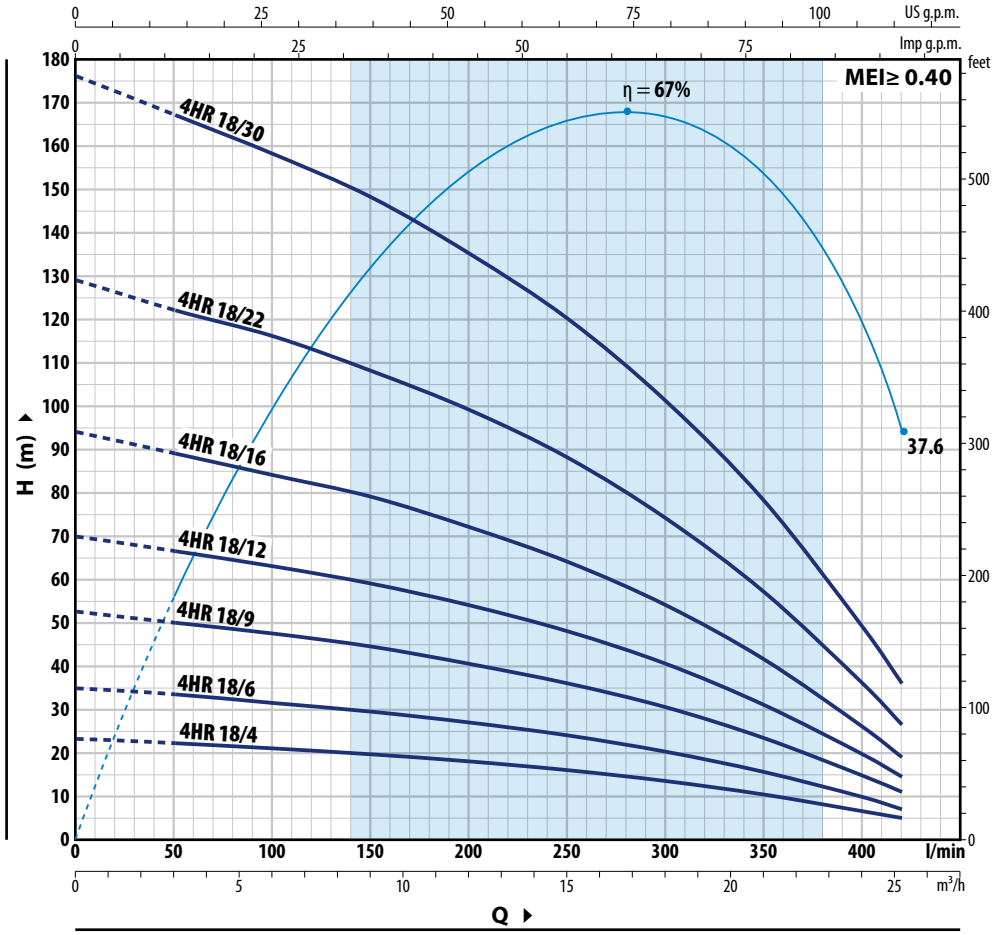
Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

PERFORMANCE RANGE

50 Hz

4HR 18



4HR 18

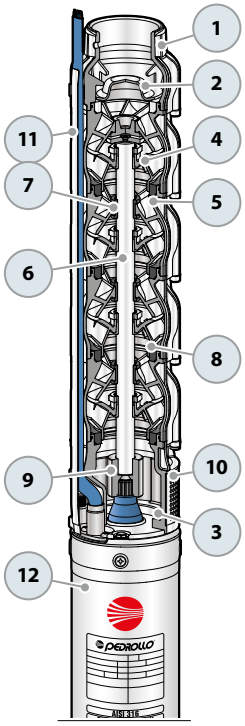
TYPE		POWER (P2)		Q	m³/h	0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	25.2
Single-phase	**Three-phase**	**kW**	**HP**		l/min	**0**	**50**	**100**	**150**	**200**	**250**	**300**	**350**	**400**	**420**
4HRm 18/4	**4HR 18/4**	1.1	1.5			23.4	22	21	19.7	18	16	13.5	10.4	6.6	5
4HRm 18/6	**4HR 18/6**	1.5	2			35	33.5	31.5	29.5	27	24	20.3	15.6	9.8	7
4HRm 18/9	**4HR 18/9**	2.2	3			52.5	50	47.5	44.5	40.5	36	30.5	23.4	14.8	11
–	**4HR 18/12**	3	4	**H**	metres	70	66.5	63	59	54	48	40.5	31	19.7	14.5
–	**4HR 18/16**	4	5.5			94	89	84	79	72	64	54	41.5	26	19
–	**4HR 18/22**	5.5	7.5			129	122	116	108	99	88	74	57	36	26.5
–	**4HR 18/30**	7.5	10			176	167	158	148	135	120	101	78	49	36

Q = Flow rate **H** = Total manometric head

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

MATERIALS AND COMPONENTS

1	**Delivery port**	Micro-cast **AISI 304** stainless steel with thread according to ISO 228/1
2	**Check valve**	Stainless steel **AISI 304**
3	**Motor bracket**	**AISI 304** micro-cast stainless steel sized to NEMA standards
4	**Impellers**	**AISI 304** micro-cast stainless steel
5	**Diffusers**	**AISI 304** micro-cast stainless steel
6	**Pump shaft**	Stainless steel **AISI 304**
7	**Pump bearings**	Special elastomer
8	**Wear rings**	Special elastomer
9	**Tow coupling**	Stainless steel **AISI 304**
10	**Filter**	Stainless steel **AISI 304**
11	**Cable sheath**	Stainless steel **AISI 304**
12	**Motor 4"**	**※ 4PD = rewindable oil filled motor** **※ 4PS = encapsulated water filled motor**



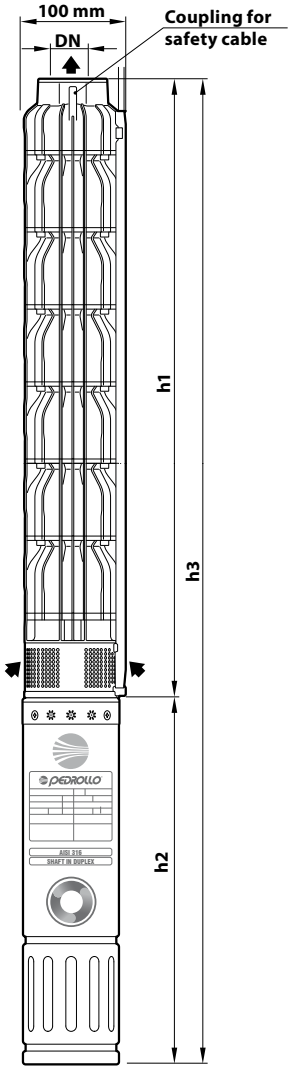
DIMENSIONS AND WEIGHT

TYPE **Single-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
4HRm 10/5 - PD		511	356	867	19.0
4HRm 10/7 - PD		657	396	1053	22.5
4HRm 10/10 - PD		876	437	1313	29.0
4HRm 10/15 - PD		1241	492	1733	39.2
4HRm 14/6 - PD		584	396	980	20.5
4HRm 14/8 - PD	**2"**	730	437	1167	25.0
4HRm 14/12 - PD		1022	492	1514	33.5
4HRm 18/4 - PD		438	396	834	18.1
4HRm 18/6 - PD		584	437	1021	22.8
4HRm 18/9 - PD		803	492	1295	29.5

TYPE **Single-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
4HRm 10/5 - PS		511	272	783	20.3
4HRm 10/7 - PS		657	312	969	24.8
4HRm 10/10 - PS		876	352	1228	32.7
4HRm 10/15 - PS		1241	402	1643	38.0
4HRm 14/6 - PS		584	312	896	22.0
4HRm 14/8 - PS	**2"**	730	352	1082	26.9
4HRm 14/12 - PS		1022	402	1424	33.0
4HRm 18/4 - PS		438	312	750	19.4
4HRm 18/6 - PS		584	352	936	24.3
4HRm 18/9 - PS		803	402	1205	29.1

TYPE **Three-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
4HR 10/5 - PD		511	356	867	18.0
4HR 10/7 - PD		657	371	1028	22.0
4HR 10/10 - PD		876	396	1272	26.8
4HR 10/15 - PD		1241	437	1678	37.0
4HR 10/20 - PD		1606	450	2056	45.0
4HR 10/28 - PD		2190	625	2815	61.8
4HR 14/6 - PD		584	371	955	20.0
4HR 14/8 - PD		730	396	1126	23.2
4HR 14/12 - PD		1022	437	1459	30.4
4HR 14/16 - PD	**2"**	1314	450	1764	36.8
4HR 14/21 - PD		1679	625	2304	50.2
4HR 14/29 - PD		2263	725	2988	68.2
4HR 18/4 - PD		438	371	809	17.0
4HR 18/6 - PD		584	396	980	20.5
4HR 18/9 - PD		803	437	1240	27.0
4HR 18/12 - PD		1022	450	1472	31.8
4HR 18/16 - PD		1314	625	1939	43.7
4HR 18/22 - PD		1752	725	2477	59.4
4HR 18/30 - PD		2336	845	3181	74.0

TYPE **Three-phase ※**	DN	DIMENSIONS mm h1	h2	h3	kg
4HR 10/5 - PS		511	257	768	18.3
4HR 10/7 - PS		657	272	929	22.0
4HR 10/10 - PS		876	297	1173	26.4
4HR 10/15 - PS		1241	352	1593	38.7
4HR 10/20 - PS		1606	484	2090	49.2
4HR 10/28 - PS		2190	574	2764	65.1
4HR 14/6 - PS		584	272	856	18.6
4HR 14/8 - PS		730	297	1027	24.2
4HR 14/12 - PS		1022	352	1374	32.1
4HR 14/16 - PS	**2"**	1314	484	1798	40.6
4HR 14/21 - PS		1679	574	2253	53.5
4HR 14/29 - PS		2263	664	2927	68.6
4HR 18/4 - PS		438	272	710	17.5
4HR 18/6 - PS		584	297	881	22.0
4HR 18/9 - PS		803	352	1155	28.5
4HR 18/12 - PS		1022	484	1506	35.6
4HR 18/16 - PS		1314	574	1888	45.8
4HR 18/22 - PS		1752	664	2416	60.4
4HR 18/30 - PS		2336	764	3100	73.2



※ 4PD = rewindable oil filled motor

※ 4PS = encapsulated water filled motor

6HR Microcast stainless steel 6" submersible pumps



Clean water

Agricultural use

Civil use

Industrial use

※ Distinguished by their exceptional mechanical resilience, our pumps excel in combating both sand wear and corrosion, making them perfect for coastal installations and brackish water environments. They are the optimal choice when seeking a high-quality product that ensures long-term operation.

PERFORMANCE RANGE

- Flow rate up to **1500 l/min** (90 m³/h)
- Head up to **375 m**

INSTALLATION AND USE

Submersible pump designed for 6" wells, constructed with durable micro-cast stainless steel.

Designed to transfer clean or brackish water with sand content up to **100 g/m³**. Highly efficient and reliable, they are suitable for industrial, civil, and agricultural applications, such as water distribution coupled with pressure tanks, irrigation, pressure boosting, fire-fighting systems, and more.

INCLUDES

※ Three-phase electric motor 400 V - 50 Hz The pump can be supplied with motor:
  – 6PD rewindable and oil filled
  – 6PSR rewindable and water filled

※ **4 m** power cable

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Sand content max. **100 g/m³**
- Maximum operating depth below water level:
  – **200 m** with 6PD motors
  – **150 m** with 6PSR motors
- Operation:
  – in vertical position
  – horizontally with the following limits:
  6HR34 up to **11 stages** / 6HR44 up to **10 stages**
  6HR54 up to **9 stages** / 6HR64 up to **7 stages**
- Starts per hour: **20** at regular intervals
- Minimum cooling flow **8 cm/s**
- Continuous running duty **S1**

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency
※ Counterflange kit
※ 6HR-HYD pumps with double cable cover for coupling with 400/690 V dual voltage motors ⅄/▲ (star/delta)

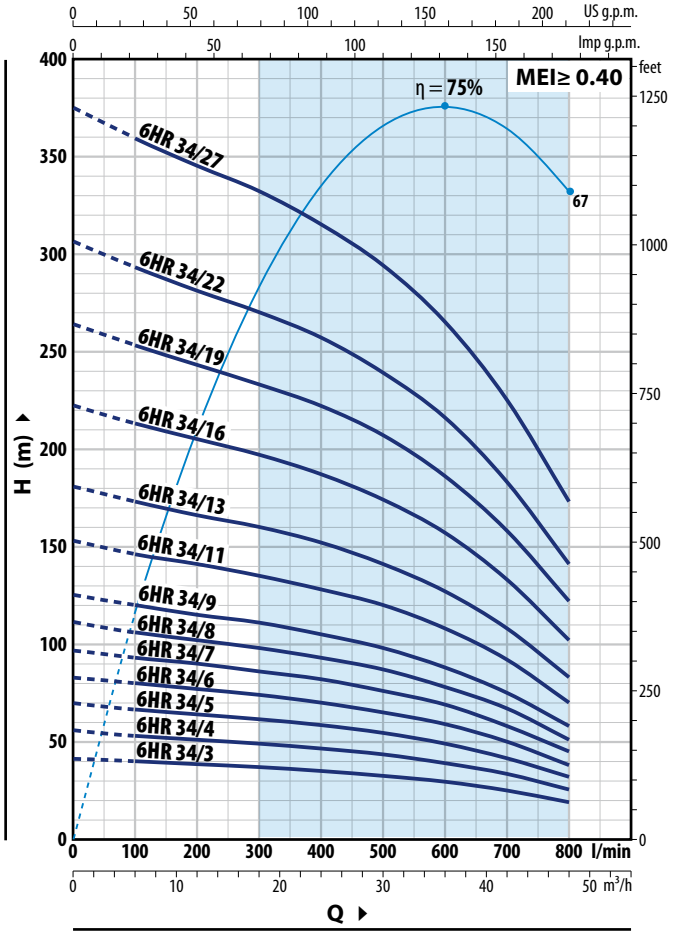
PATENTS - TRADE MARKS - MODELS

- Registered Community Model No. 004675106-0002

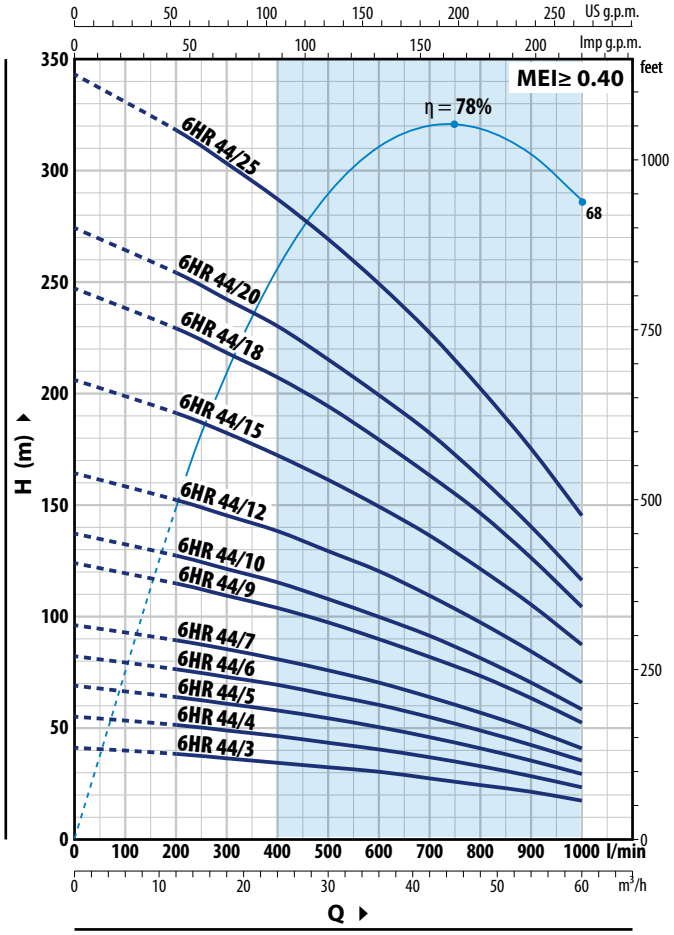
PERFORMANCE RANGE

50 Hz

6HR 34



6HR 44



6HR 34

TYPE	POWER (P2)		Q m³/h	0	6	12	18	24	30	36	42	48
Three-phase	kW	HP	l/min	**0**	**100**	**200**	**300**	**400**	**500**	**600**	**700**	**800**
6HR 34/3	4	5.5		41.5	40	38.5	37	35	32.5	29.5	25	19
6HR 34/4	5.5	7.5		55.5	53	51	49	46.5	43.5	39	33.5	25.5
6HR 34/5	7.5	10		69.5	66.5	64	61.5	58.5	54.5	49	41.5	32
6HR 34/6	9.2	12.5		83	80	77	74	70	65	59	50	38
6HR 34/7	11	15		97	93	90	86	82	76	69	58	45
6HR 34/8	11	15		111	106	102	98	93	87	78	67	51
6HR 34/9	13	17.5	**H** metres	125	120	115	111	105	98	88	75	58
6HR 34/11	15	20		153	146	141	135	128	120	108	92	70
6HR 34/13	18.5	25		181	173	166	160	152	141	127	108	83
6HR 34/16	22	30		222	213	205	197	187	174	157	133	102
6HR 34/19 (1)	26	35		264	253	243	233	222	207	186	158	122
6HR 34/22	30	40		306	293	281	270	257	239	216	183	141
6HR 34/27	37	50		375	359	345	332	315	294	265	225	173

6HR 44

TYPE	POWER (P2)		Q m³/h	0	12	18	24	30	36	42	48	54	60
Three-phase	kW	HP	l/min	**0**	**200**	**300**	**400**	**500**	**600**	**700**	**800**	**900**	**1000**
6HR 44/3	5.5	7.5		41	38	36	34	32	30	27	24	21	17
6HR 44/4	7.5	10		55	51	48.5	46	43	40	36.5	32.5	28	23
6HR 44/5	7.5	10		68.5	63.5	60.5	57.5	54	50	45.5	40.5	35	29
6HR 44/6	9.2	12.5		82	76	72.5	69	64.5	60	54.5	48.5	42	35
6HR 44/7	11	15		96	89	85	80.5	75.5	70	63.5	56.5	49	40.5
6HR 44/9	13	17.5		123.5	114.5	109	103.5	97	89.5	81.5	73	63	52
6HR 44/10	15	20	**H** metres	137	127	121	115	107.5	99.5	91	81	70	58
6HR 44/12	18.5	25		164	152	145	138	129	120	109	97	84	70
6HR 44/15	22	30		206	191	182	172	161	149	136	121	105	87
6HR 44/18 (1)	26	35		247	229	218	207	194	179	163	146	126	104
6HR 44/20	30	40		274	254	242	230	215	199	182	162	140	116
6HR 44/25	37	50		343	318	303	287	269	249	227	202	175	145

Q = Flow rate **H** = Total manometric head

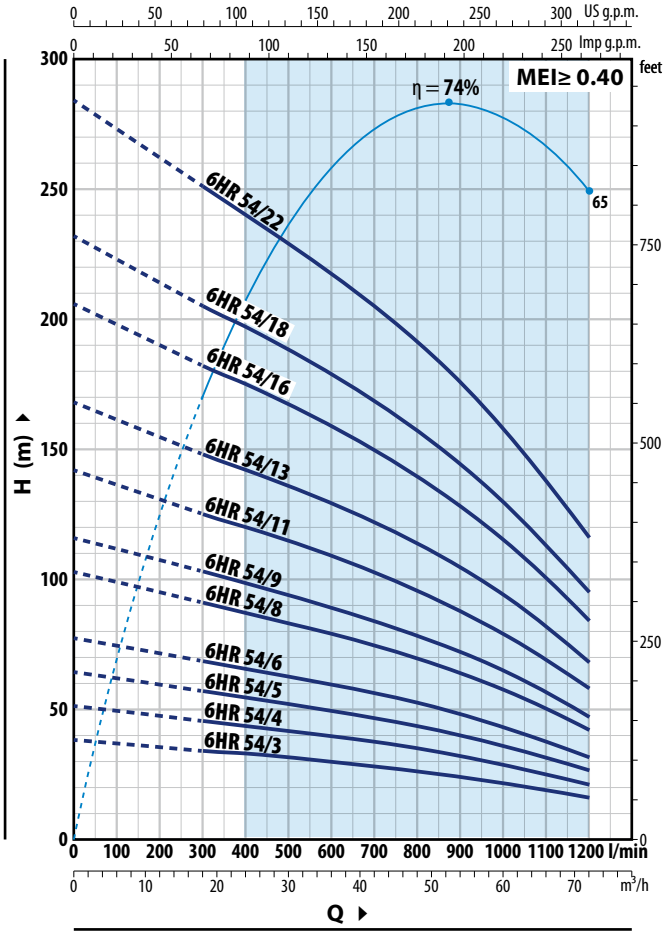
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

(1) For pumps equipped with 6PD motor: 40 HP motor

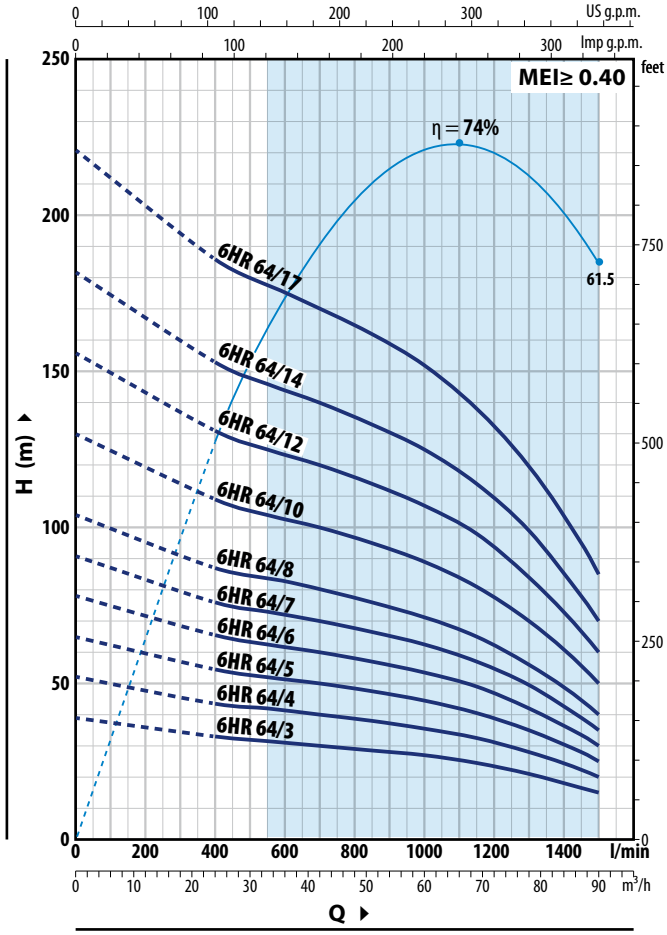
PERFORMANCE RANGE

50 Hz

6HR 54



6HR 64



6HR 54

TYPE	POWER(P2)		Q	m³/h	0	18	24	30	36	42	48	54	60	66	72
Three-phase	kW	HP		l/min	0	300	400	500	600	700	800	900	1000	1100	1200
6HR 54/3	5.5	7.5	H metres		38.5	34	33	31.5	29.5	28	26	24	21.5	19	16
6HR 54/4	7.5	10			51.5	45.5	43.5	41.5	39.5	37.5	35	32	29	25	21
6HR 54/5	9.2	12.5			64.5	57	54.5	52	49.5	46.5	43.5	40	36	31.5	26.5
6HR 54/6	11	15			77.5	68.5	65.5	62.5	59.5	56	52.5	48	43	37.5	31.5
6HR 54/8	13	17.5			103	91	87	83	79	74.5	69.5	64	57.5	50.5	42
6HR 54/9	15	20			116	103	98	94	89	84	78	72	65	57	47
6HR 54/11	18.5	25			142	125	120	115	109	103	96	88	79	69	58
6HR 54/13	22	30			168	148	142	136	129	121	113	104	94	82	68
6HR 54/16 (1)	26	35			206	182	175	167	159	149	139	128	115	101	84
6HR 54/18	30	40			232	205	197	188	178	168	157	144	130	113	95
6HR 54/22	37	50			284	251	240	229	218	205	192	176	158	138	116

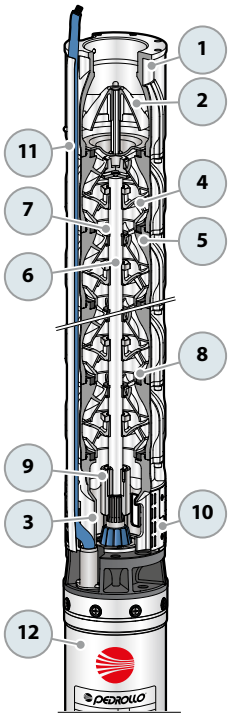
6HR 64

TYPE	POWER(P2)		Q	m³/h	0	24	33	42	51	60	69	78	87	90
Three-phase	kW	HP		l/min	0	400	550	700	850	1000	1150	1300	1450	1500
6HR 64/3	7.5	10	H metres		39	33	31.5	30	28.5	27	24.5	21	16.5	15
6HR 64/4	9.2	12.5			52	43.5	42	40	38	35.5	32.5	28	22.5	20
6HR 64/5	11	15			65	54.5	52	50	47.5	44.5	40.5	35	28	25
6HR 64/6	13	17.5			78	65.5	62.5	60	57	53.5	49	42	33.5	30
6HR 64/7	15	20			91	76	73	70	66.5	62.5	57	49.5	39	35
6HR 64/8	18.5	25			104	87	84	80	76	71	65	56	45	40
6HR 64/10	22	30			130	109	104	100	95	89	81	70	56	50
6HR 64/12 (1)	26	35			156	131	125	120	114	107	98	84	67	60
6HR 64/14	30	40			182	153	146	140	133	125	114	99	78	70
6HR 64/17	37	50			221	186	178	170	162	152	138	120	95	85

(1) For pumps equipped with 6PD motor: 40 HP motor

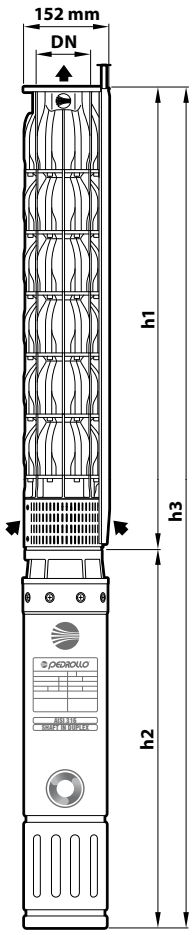
MATERIALS AND COMPONENTS

1	**Delivery port**	Micro-cast **AISI 304** stainless steel with thread according to ISO 228/1
2	**Check valve**	Stainless steel **AISI 304**
3	**Motor bracket**	**AISI 304** micro-cast stainless steel sized to NEMA standards
4	**Impellers**	**AISI 304** micro-cast stainless steel
5	**Diffusers**	**AISI 304** micro-cast stainless steel
6	**Pump shaft**	Stainless steel **AISI 304**
7	**Pump bearings**	Special elastomer
8	**Wear rings**	Special elastomer
9	**Tow coupling**	Stainless steel **AISI 304**
10	**Filter**	Stainless steel **AISI 304**
11	**Cable sheath**	Stainless steel **AISI 304**
12	**Motor 6"**	**※ 6PD = rewindable oil filled motor** **※ 6PSR = rewindable water filled motor**

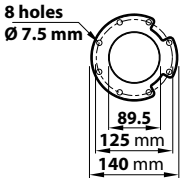


DIMENSIONS AND WEIGHT

TYPE Three-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg	TYPE Three-phase ※	DN	DIMENSIONS mm h1	h2	h3	kg
6HR 34/3 - PD		581	595	1176	53.1	**6HR 34/3 - PSR**		581	620	1201	69.7
6HR 34/4 - PD		682	625	1307	58.4	**6HR 34/4 - PSR**		682	620	1302	74.0
6HR 34/5 - PD		783	660	1443	65.0	**6HR 34/5 - PSR**		783	670	1453	81.9
6HR 34/6 - PD		884	700	1584	72.4	**6HR 34/6 - PSR**		884	700	1584	88.8
6HR 34/7 - PD		985	765	1750	83.0	**6HR 34/7 - PSR**		985	750	1735	99.7
6HR 34/8 - PD		1086	765	1851	85.8	**6HR 34/8 - PSR**		1086	750	1836	102.5
6HR 34/9 - PD		1187	820	2007	94.4	**6HR 34/9 - PSR**		1187	780	1967	108.4
6HR 34/11 - PD		1389	820	2209	101.2	**6HR 34/11 - PSR**		1389	840	2229	121.6
6HR 34/13 - PD		1591	883	2474	115.8	**6HR 34/13 - PSR**		1591	890	2481	133.4
6HR 34/16 - PD		1894	953	2847	132.6	**6HR 34/16 - PSR**		1894	975	2869	153.0
6HR 34/19 - PD		2197	1098	3295	158.1	**6HR 34/19 - PSR**		2197	1075	3272	176.1
6HR 34/22 - PD		2500	1098	3598	166.8	**6HR 34/22 - PSR**		2500	1215	3715	202.8
6HR 34/27 - PD		3005	1233	4238	190.2	**6HR 34/27 - PSR**		3005	1295	4300	228.2
6HR 44/3 - PD		581	625	1206	54.1	**6HR 44/3 - PSR**		581	620	1201	69.68
6HR 44/4 - PD		682	660	1342	62.1	**6HR 44/4 - PSR**		682	670	1352	78.96
6HR 44/5 - PD		783	660	1443	64.9	**6HR 44/5 - PSR**		783	670	1453	81.8
6HR 44/6 - PD		884	700	1584	72.3	**6HR 44/6 - PSR**		884	700	1584	88.7
6HR 44/7 - PD		985	765	1750	82.9	**6HR 44/7 - PSR**		985	750	1735	99.62
6HR 44/9 - PD		1187	820	2007	94.4	**6HR 44/9 - PSR**		1187	780	1967	108.4
6HR 44/10 - PD		1288	820	2108	98.3	**6HR 44/10 - PSR**		1288	840	2128	118.7
6HR 44/12 - PD		1490	883	2373	112.9	**6HR 44/12 - PSR**		1490	890	2380	130.5
6HR 44/15 - PD		1793	953	2746	129.7	**6HR 44/15 - PSR**		1793	975	2768	150.1
6HR 44/18 - PD	**3"**	2096	1098	3194	155.2	**6HR 44/18 - PSR**	**3"**	2096	1075	3171	173.2
6HR 44/20 - PD		2298	1098	3396	160.9	**6HR 44/20 - PSR**		2298	1215	3513	196.9
6HR 44/25 - PD		2803	1233	4036	184.4	**6HR 44/25 - PSR**		2803	1295	4098	222.4
6HR 54/3 - PD		599	625	1224	54.3	**6HR 54/3 - PSR**		599	620	1219	69.9
6HR 54/4 - PD		706	660	1366	62.4	**6HR 54/4 - PSR**		706	670	1376	79.3
6HR 54/5 - PD		813	700	1513	69.8	**6HR 54/5 - PSR**		813	700	1513	86.2
6HR 54/6 - PD		920	765	1685	80.5	**6HR 54/6 - PSR**		920	750	1670	97.2
6HR 54/8 - PD		1134	820	1954	92.1	**6HR 54/8 - PSR**		1134	780	1914	106.1
6HR 54/9 - PD		1241	820	2061	96.1	**6HR 54/9 - PSR**		1241	840	2081	116.5
6HR 54/11 - PD		1455	883	2338	110.8	**6HR 54/11 - PSR**		1455	890	2345	128.4
6HR 54/13 - PD		1669	953	2622	124.9	**6HR 54/13 - PSR**		1669	975	2644	145.3
6HR 54/16 - PD		1990	1098	3088	149.6	**6HR 54/16 - PSR**		1990	1075	3065	167.6
6HR 54/18 - PD		2204	1098	3302	156.5	**6HR 54/18 - PSR**		2204	1215	3419	192.5
6HR 54/22 - PD		2632	1233	3865	177.4	**6HR 54/22 - PSR**		2632	1295	3927	215.4
6HR 64/3 - PD		599	660	1259	58.0	**6HR 64/3 - PSR**		599	670	1269	76.3
6HR 64/4 - PD		706	700	1406	66.9	**6HR 64/4 - PSR**		706	700	1406	83.3
6HR 64/5 - PD		813	765	1578	75.6	**6HR 64/5 - PSR**		813	750	1563	92.3
6HR 64/6 - PD		920	820	1740	86.2	**6HR 64/6 - PSR**		920	780	1700	100.2
6HR 64/7 - PD		1027	820	1847	89.2	**6HR 64/7 - PSR**		1027	840	1867	109.6
6HR 64/8 - PD		1134	883	2017	100.9	**6HR 64/8 - PSR**		1134	890	2024	118.5
6HR 64/10 - PD		1348	953	2301	115.1	**6HR 64/10 - PSR**		1348	975	2323	135.5
6HR 64/12 - PD		1562	1098	2660	138.0	**6HR 64/12 - PSR**		1562	1075	2637	152.4
6HR 64/14 - PD		1776	1098	2874	143.9	**6HR 64/14 - PSR**		1776	1215	2991	174.9
6HR 64/17 - PD		2097	1233	3330	161.6	**6HR 64/17 - PSR**		2097	1295	3392	199.6



COUNTERFLANGE



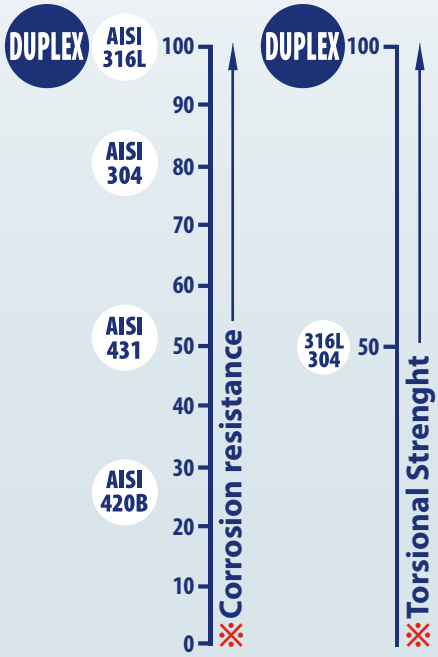
※ 6PD = rewindable oil filled motor

※ 6PSR = rewindable water filled motor

4PD 4" submersible motors

※ **High-quality submersible motors made of premium AISI 316 and DUPLEX materials for a long service life**





※ **DUPLEX stainless steel shaft**

※ **AISI 316 casing**

※ **DUPLEX steel is recognized for its outstanding mechanical strength, which is twice that of AISI 304/316L steel.**

ELECTRIC MOTOR

Our **4"** submersible oil-filled motors are crafted from top-tier materials and designed with industry expertise. They ensure exceptional performance, superior quality, and maintenance-free longevity.

TECHNICAL DATA

- 2 poles, 50 Hz (n ≈ 2900 min^{-1})
- Voltage:
  - single-phase 230 V
  - three-phase **400 V**
- Power from **0.37** to **7.5 kW**
- Continuous running duty **S1**
- Class F insulation and IP 68 protection

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency

MATERIALS AND COMPONENTS

※ **Rewindable** motor in oil bath (non-toxic food-safe oil)
※ Sleeve: AISI 316 stainless steel
※ Coupling dimensions in compliance with NEMA standards.
※ Power cable included:
  – **2 m** for power ratings from 0.37 to 2.2 kW
  – **3.6 m** for powers from 3 to 7.5 kW
※ Shaft: 'DUPLEX' stainless steel

APPLICATION LIMITS

- Liquid temperature up to **+40 °C**
- Depth of use up to **200 m** below water level
- Starts per hour: max. **20** at regular intervals
- Minimum cooling flow **8 cm/s**

CORROSION CONTROL

The sacrificial anode, composed of a 'cadmium-free' zinc-aluminum alloy safe for potable water, is simple to attach to 4PD motors. It shields against corrosion, especially from stray currents or aggressive water, thus greatly extending the lifespan of the motor and pump components.

Available upon request - code ASS4PDA01



PERFORMANCE DATA

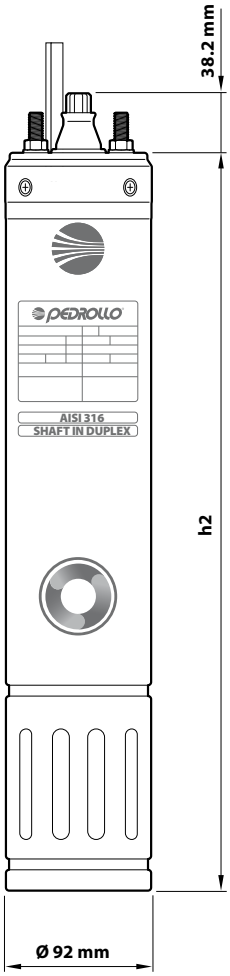
50 Hz

※ Single-phase versions - 230 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolutions	Starting current / Current nominal	Power factor	Capacitor (VL=450V)	h2	Weight
Single-phase	kW	HP	N	min⁻¹		Cos φ	µF	mm	kg
4PDm / 0.50	**0.37**	**0.50**	2000	2820	3.2	0.9	20	311	6.8
4PDm / 0.75	**0.55**	**0.75**		2830	3.2	0.9	25	331	7.9
4PDm / 1	**0.75**	**1**		2835	3	0.93	35	356	8.9
4PDm / 1.5	**1.1**	**1.5**		2850	3.1	0.93	40	396	10.7
4PDm / 2	**1.5**	**2**		2850	3.3	0.92	60	437	12.8
4PDm / 3	**2.2**	**3**		2830	3.2	0.95	75	492	14.9

※ Three-phase versions - 400 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolutions	Starting current / Current nominal	Power factor	h2	Weight
Three-phase	kW	HP	N	min⁻¹		Cos φ	mm	kg
4PD / 0.50	**0.37**	**0.50**	2000	2850	3.3	0.6	311	7.0
4PD / 0.75	**0.55**	**0.75**		2840	4.1	0.65	331	7.7
4PD / 1	**0.75**	**1**		2840	3.7	0.72	356	8.8
4PD / 1.5	**1.1**	**1.5**		2825	4.5	0.75	371	9.5
4PD / 2	**1.5**	**2**		2835	4	0.73	396	10.7
4PD / 3	**2.2**	**3**		2815	4.5	0.74	437	12.6
4PD / 4	**3**	**4**	3000	2840	5.5	0.81	450	13.7
4PD / 5.5	**4**	**5.5**	5000	2845	5.3	0.78	625	20.5
4PD / 7.5	**5.5**	**7.5**		2850	5.2	0.75	725	28.5
4PD / 10	**7.5**	**10**		2850	5.2	0.76	845	32.0



ABSORPTION

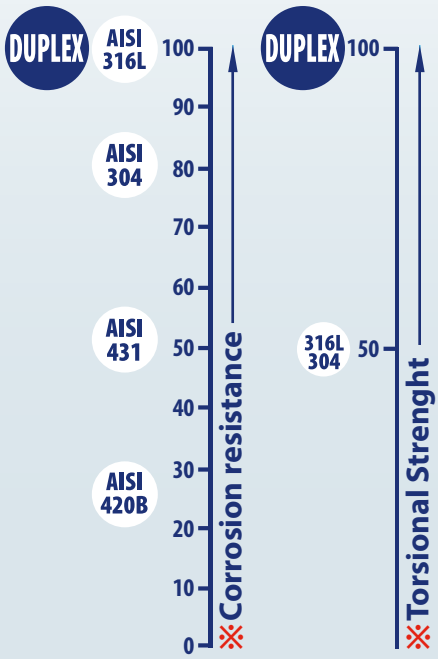
TYPE	VOLTAGE
Single-phase	**230 V**
4PDm / 0.50	3.6 A
4PDm / 0.75	4.7 A
4PDm / 1	5.9 A
4PDm / 1.5	8.3 A
4PDm / 2	10.7 A
4PDm / 3	15.2 A

TYPE	VOLTAGE	
Three-phase	**230 V**	**400 V**
4PD / 0.50	3.1 A	1.8 A
4PD / 0.75	3.5 A	2.0 A
4PD / 1	4.3 A	2.5 A
4PD / 1.5	5.9 A	3.4 A
4PD / 2	8.3 A	4.8 A
4PD / 3	10.6 A	6.1 A
4PD / 4	12.3 A	7.1 A
4PD / 5.5	17.0 A	9.8 A
4PD / 7.5	23.3 A	13.5 A
4PD / 10	–	17.5 A

4PS 4" 'encapsulated' submersible motors

※ **Encapsulated water-filled motors ensure absolute operational safety**





※ **DUPLEX stainless steel shaft**

※ **AISI 316 casing**

※ **DUPLEX steel is recognized for its outstanding mechanical strength, which is twice that of AISI 304/316L steel.**

ELECTRIC MOTOR

The **4PS** series encapsulated 4" submersible motors are ideal for applications where reliable, maintenance-free operation is crucial.

Featuring a special "canned" construction, these motors eliminate the need for mechanical sealing, ensuring total safety against water infiltration into the electrical winding.

TECHNICAL DATA

- 2 poles, 50 Hz (n ≈ 2900 min^{-1})
- Voltage:
  - single-phase 230 V
  - three-phase 400 V
- Power from **0.37** to **7.5 kW**
- Continuous running duty **S1**
- Class F insulation and IP 68 protection

AVAILABLE UPON REQUEST

※ Other voltages

MATERIALS AND COMPONENTS

※ Encapsulated water filled submersible motors
※ **Sleeve: AISI 316 stainless steel**
※ **Shaft: 'DUPLEX' stainless steel**
※ Mating dimensions according to **NEMA**standard .
※ Power cable included:
  – **2 m** for power ratings from 0.37 to 2.2 kW
  – **3.6 m** for power ratings from 3 to 7.5 kW.

APPLICATION LIMITS

- Liquid temperature up to **+35 °C**
- Depth of use up to **300 m** below water level
- Starts per hour: max. **20** at regular intervals
- Minimum cooling flow **8 cm/s**

WARRANTY

- 3-Year Warranty Included in Our Standard Terms and Conditions

PERFORMANCE DATA

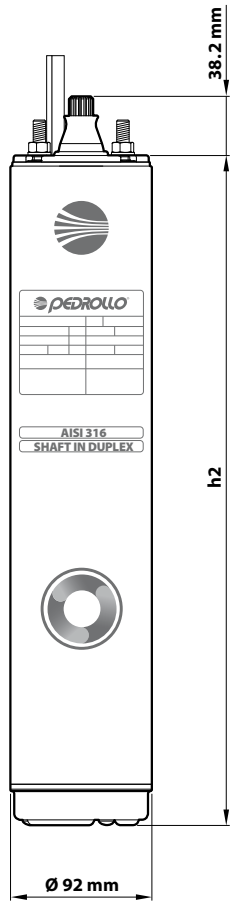
50 Hz

※ Single-phase versions - 230 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolutions	Starting current / Current nominal	Power factor	Capacitor (VL=450V)	h2	Weight
Single-phase	kW	HP	N	min⁻¹		Cos φ	µF	mm	kg
4PSm / 0.50	**0.37**	**0.50**	2000	2845	3.4	0.88	20	237	8.6
4PSm / 0.75	**0.55**	**0.75**		2840	3.8	0.93	25	257	9.0
4PSm / 1	**0.75**	**1**		2835	3.8	0.92	35	272	9.6
4PSm / 1.5	**1.1**	**1.5**		2820	3.3	0.91	40	312	11.5
4PSm / 2	**1.5**	**2**	3000	2830	3.2	0.94	60	352	13.2
4PSm / 3	**2.2**	**3**		2810	3.6	0.94	70	402	15.5

※ Three-phase versions - 400 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolutions	Starting current / Current nominal	Power factor	h2	Weight
Three-phase	kW	HP	N	min⁻¹		Cos φ	mm	kg
4PS / 0.50	**0.37**	**0.50**	2000	2855	4.2	0.64	237	8.1
4PS / 0.75	**0.55**	**0.75**		2835	4.1	0.70	237	8.1
4PS / 1	**0.75**	**1**		2830	4.4	0.68	257	9.0
4PS / 1.5	**1.1**	**1.5**		2825	4.6	0.69	272	9.6
4PS / 2	**1.5**	**2**	3000	2820	4.7	0.73	297	10.7
4PS / 3	**2.2**	**3**		2805	5.2	0.74	352	13.1
4PS / 4	**3**	**4**		2845	5.7	0.82	484	18.3
4PS / 5.5	**4**	**5.5**	6500	2850	5.9	0.78	574	22.5
4PS / 7.5	**5.5**	**7.5**		2845	5.9	0.84	664	26.7
4PS / 10	**7.5**	**10**		2830	5.8	0.84	764	31.6



ABSORPTION

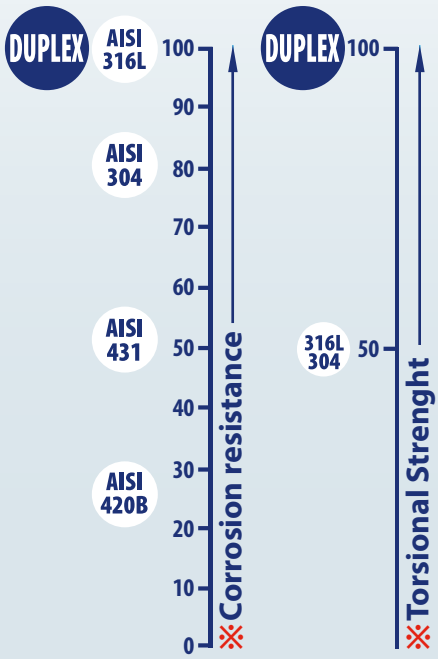
TYPE	VOLTAGE
Single-phase	**230 V**
4PSm / 0.50	3.5 A
4PSm / 0.75	4.4 A
4PSm / 1	5.9 A
4PSm / 1.5	8.1 A
4PSm / 2	10.7 A
4PSm / 3	16.2 A

TYPE	VOLTAGE
Three-phase	**400 V**
4PS / 0.50	1.6 A
4PS / 0.75	1.8 A
4PS / 1	2.5 A
4PS / 1.5	3.4 A
4PS / 2	4.3 A
4PS / 3	6.0 A
4PS / 4	6.9 A
4PS / 5.5	9.6 A
4PS / 7.5	12.4 A
4PS / 10	16.9 A

6PD 6" submersible motors

※ **High-quality submersible motors made of premium AISI 316 and DUPLEX materials for a long service life**





※ **DUPLEX stainless steel shaft**

※ **AISI 316 casing**

※ **DUPLEX steel is recognized for its outstanding mechanical strength, which is twice that of AISI 304/316L steel.**

ELECTRIC MOTOR

6" submersible oil-filled motors are crafted from top-tier materials and designed with industry expertise.

They ensure exceptional performance, superior quality, and maintenance-free longevity.

TECHNICAL DATA

- 2 poles, 50 Hz (n ≈ 2900 min^{-1})
- Three-phase voltage 400 V
- Power from **4** to **37 kW**
- Continuous running duty **S1**
- Class F insulation and IP 68 protection

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency
※ Motors with double power cable for star/delta starting(**Y/Δ**)

MATERIALS AND COMPONENTS

※ Rewindable oil filled submersible motors (non-toxic food-safe oil).
※ **Sleeve: AISI 316 stainless steel**
※ **Shaft: 'DUPLEX' stainless steel**
※ Coupling dimensions in compliance with NEMA standards.
※ Power cable included:
  – **3 m** for power up to 15 kW
  – **4 m** for powers from 18.5 to 37 kW.

APPLICATION LIMITS

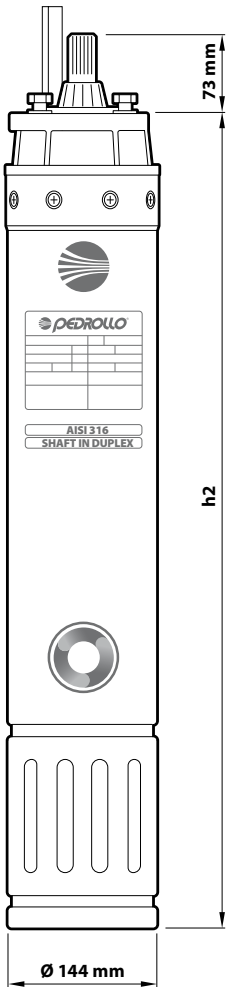
- Liquid temperature up to **+35 °C**
- Depth of use up to **200 m** below water level
- Starts per hour: **30** at regular intervals
- Minimum cooling flow **8 cm/s**

PERFORMANCE DATA

50 Hz

※ Three-phase versions - 400 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolutions	Starting current / Current nominal	Yield	Power factor	Rated torque	Starting torque / Torque rated	h2	Weight
Three-phase	kW	HP	N	min⁻¹		η	Cos φ	Nm		mm	kg
6PD / 5.5	**4**	**5.5**	10000	2840	5.1	74%	0.86	13.5	1.65	595	33.4
6PD / 7.5	**5.5**	**7.5**		2840	5.1	74%	0.84	18.5	1.60	625	34.4
6PD / 10	**7.5**	**10**		2850	4.7	78%	0.83	25.1	1.55	660	38.1
6PD / 12.5	**9.2**	**12.5**		2880	4.5	81%	0.77	30.5	1.60	700	42.6
6PD / 15	**11**	**15**		2850	5.2	85%	0.82	36.9	2.20	765	48.3
6PD / 20	**15**	**20**		2840	5.0	82%	0.86	50.5	2.60	820	58.0
6PD / 25	**18.5**	**25**	20000	2850	5.9	84%	0.84	62.0	2.30	883	62.8
6PD / 30	**22**	**30**		2850	5.5	84%	0.83	73.8	2.45	953	79.4
6PD / 40	**30**	**40**		2860	5.5	85%	0.83	100.2	1.90	1098	91.0
6PD / 50	**37**	**50**		2840	5.1	84%	0.83	124.5	2.10	1233	92.0



ABSORPTION

TYPE	VOLTAGE
Three-phase	**400 V**
6PD / 5.5	9.3 A
6PD / 7.5	12.9 A
6PD / 10	17.1 A
6PD / 12.5	21.8 A
6PD / 15	23.8 A
6PD / 20	31.6 A
6PD / 25	38.5 A
6PD / 30	46.5 A
6PD / 40	63.0 A
6PD / 50	78.0 A

6PSR 6" submersible water filled motors

※ **Rewindable water filled motors ensure absolute operational safety**



ELECTRIC MOTOR

Rewindable water-filled motors. The wound stator consists of copper wire coated with water-repellent thermoplastic material with high dielectric properties.

TECHNICAL DATA

- 2-pole electric motor, 50 Hz (n ≈ 2900 min^{-1})
- Three-phase voltage **400 V**
- Power from **5.5** to **37 kW**
- Insulation: class Y
- Protection rating: IP 68

AVAILABLE UPON REQUEST

※ Different voltage requirements 60 Hz frequency
※ Motors with double power cable for starting star/triangle**(Y/Δ)**

MATERIALS AND COMPONENTS

※ **Rewindable** submersible motors in a **water filled**.
※ **Sleeve: AISI 304 stainless steel**
※ **Motor mounts and base: cast iron G25**
※ **Shaft: AISI 431 stainless steel**
※ Coupling dimensions in compliance with NEMA standards .
※ Power cable included:
※ **3 m** for power ratings from 5.5 kW to 18.5 kW
※ **5 m** for powers from 22 to 37 kW.

APPLICATION LIMITS

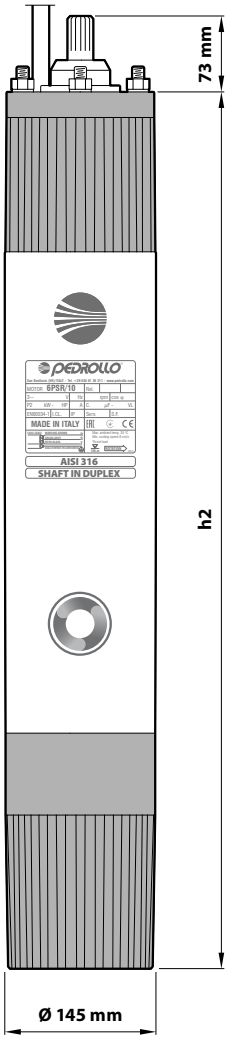
- Liquid temperature up to **+30 °C**
- Depth of use up to **150 m** below water level
- Starts per hour: 20 at regular intervals
- Minimum cooling flow **8 cm/s**
- Continuous running duty **S1**

PERFORMANCE DATA

50 Hz

※ Three-phase versions - 400 V / 50 Hz

TYPE	Rated power P2		Axial load	Revolu-tions	Starting current / Current nominal	Yield	Power factor	Rated torque	Starting torque / Torque rated	h2	Weight
Three-phase	kW	HP	N	min⁻¹		η	Cos φ	Nm		mm	kg
6PSR / 7.5	**5.5**	**7.5**	20000	2850	5.1	78%	0.85	19	1.7	620	53.0
6PSR / 10	**7.5**	**10**		2855	5.1	79%	0. 85	25	1.7	670	58.0
6PSR / 12.5	**9.2**	**12.5**		2860	4.9	80%	0.84	31	1.7	700	62.0
6PSR / 15	**11**	**15**		2865	5	81%	0.85	37	1.8	750	68.0
6PSR /17.5	**13**	**17.5**		2860	5.1	81.5%	0.85	43	1.7	780	71.0
6PSR /20	**15**	**20**		2865	4.8	83%	0.86	49	1.6	840	78.0
6PSR / 25	**18.5**	**25**		2840	5	82%	0.85	61	1.7	890	84.0
6PSR / 30	**22**	**30**	28000	2860	5.2	82.5%	0.86	74	1.6	975	94.0
6PSR / 35	**26**	**35**		2860	5.2	83.5%	0.85	87	1.6	1075	104.0
6PSR / 40	**30**	**40**		2860	5.2	83.5%	0.86	103	1.6	1215	122.0
6PSR / 50	**37**	**50**		2860	5.3	83.5%	0.86	125	1.7	1295	130.0



ABSORPTION

TYPE	VOLTAGE
Three-phase	**400 V**
6PSR / 7.5	13.0 A
6PSR / 10	16.0 A
6PSR / 12.5	20.0 A
6PSR / 15	23.0 A
6PSR / 17.5	27.5 A
6PSR / 20	30.0 A
6PSR / 25	38.0 A
6PSR / 30	45.0 A
6PSR / 35	53.0 A
6PSR / 40	60.5 A
6PSR / 50	75.5 A