

6" submersible pump



Clean water
(Maximum sand content 100 g/m³)



Civil use



Agricultural use



Industrial use



PERFORMANCE RANGE

- Flow rate up to **1200 l/min** (72 m³/h)
- Head up to **381 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **100 g/m³**
- **200 m** immersion limit
- Installation:
 - vertical
 - horizontal, with the following limits: up to **7 stages** or **11 kW**
- Starts/hour: **20** at regular intervals
- Minimum flow rate for motor cooling **16 cm/s** (50 cm/s for 30 kW)
- Continuous service **S1**

CONSTRUCTION AND SAFETY STANDARDS

ELECTRIC MOTOR

– Three-phase 380 V - 60 Hz

4 m long power cable

EN 60335-1
IEC 60335-1
CEI 61-150

EN 60034-1
IEC 60034-1
CEI 2-3



CERTIFICATIONS

Company with management system certified DNV ISO 9001: QUALITY

INSTALLATION AND USE

Suitable for use with clean water with a sand content of no more than **100 g/m³**. Because of their high efficiency and reliability, they are suitable for use in civil, agricultural and industrial applications such as the distribution of water in combination with pressure tanks, for irrigation and for pressure boosting in fire-fighting sets, etc.

GUARANTEE

2 years subject to terms and conditions

OPTIONS AVAILABLE ON REQUEST

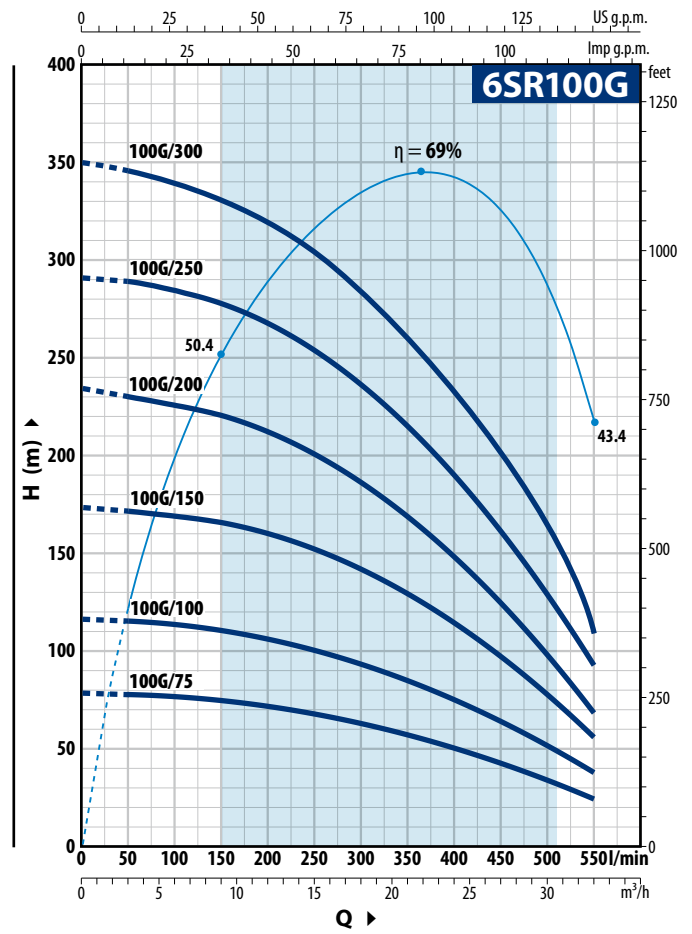
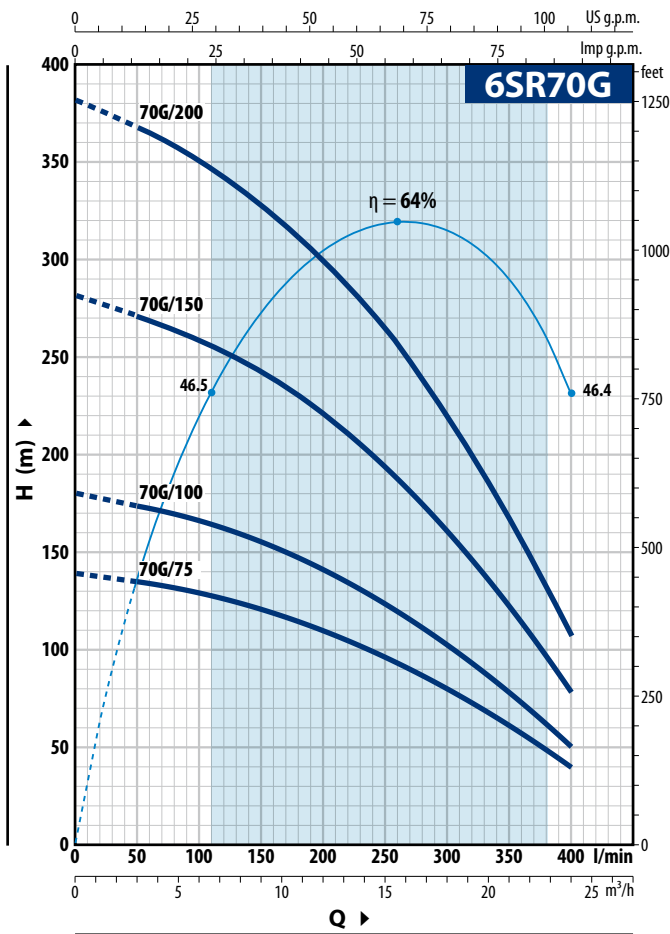
- Pump body with ISO 228/1 threaded ports
- Other voltages
- **Kit of cooling jacket complete with filter and supports**



COOLING JACKET

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 min⁻¹



6SR70G

MODEL Three-phase	N. STAGES	POWER (P ₂)		Q	H metres													
		kW	HP		0	3	6	9	12	15	18	21	24					
				0	0	50	100	150	200	250	300	350	400					
6SR 70G/75	7	5.5	7.5		140	135	130	122	110	98	80	60	40					
6SR 70G/100	9	7.5	10		182	174	168	155	140	125	104	80	50					
6SR 70G/150	14	11	15		281	270	260	240	220	198	162	122	78					
6SR 70G/200	19	15	20		381	365	351	325	300	265	220	168	108					

6SR100G

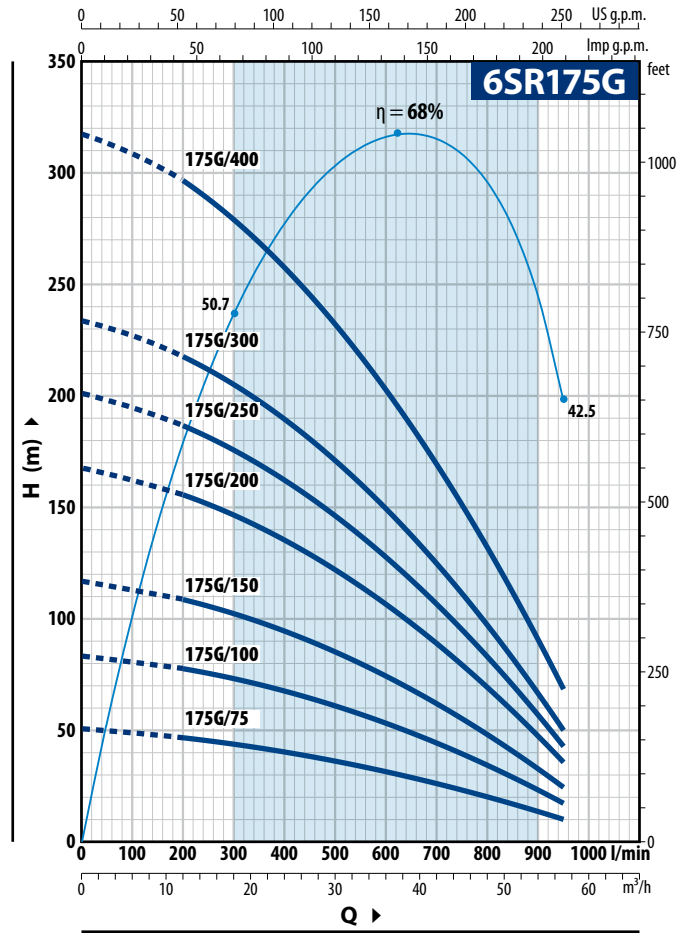
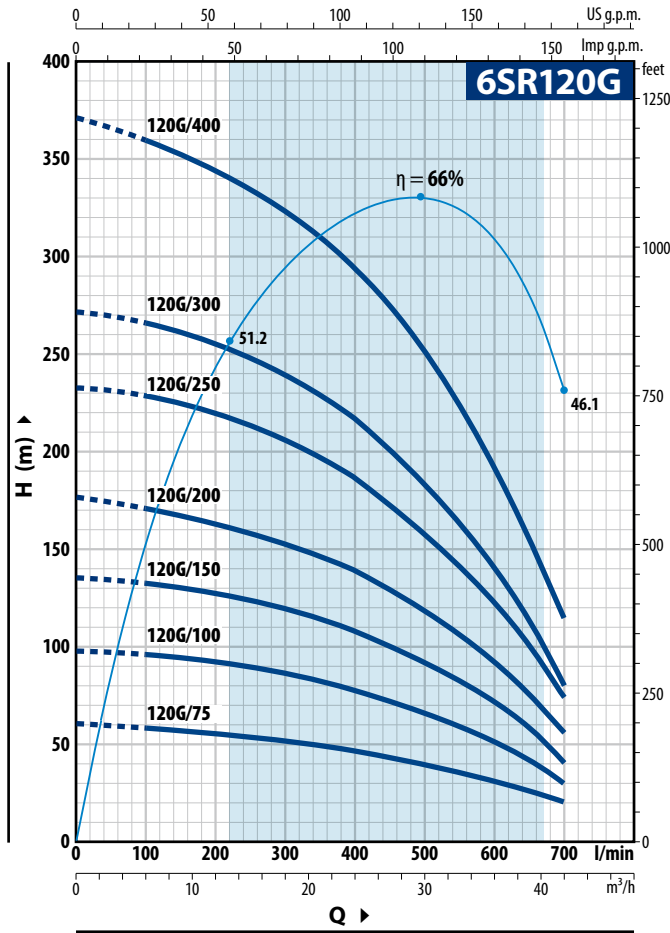
MODEL Three-phase	N. STAGES	POWER (P ₂)		Q	H metres														
		kW	HP		0	3	6	9	12	15	18	21	24	27	30	33			
				0	0	50	100	150	200	250	300	350	400	450	500	550			
6SR 100G/75	4	5.5	7.5		80	79	77	75	72	68	63	58	52	44	38	25			
6SR 100G/100	6	7.5	10		118	117	114	110	105	100	95	88	78	68	58	38			
6SR 100G/150	9	11	15		177	173	170	166	160	152	142	130	118	100	85	56			
6SR 100G/200	12	15	20		235	230	225	220	213	202	190	170	150	133	110	69			
6SR 100G/250	15	18.5	25		292	290	284	275	265	252	238	218	195	167	140	92			
6SR 100G/300	18	22	30		350	345	339	333	320	305	285	260	230	200	168	110			

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 min⁻¹



6SR120G

MODEL	N. STAGES	POWER (P ₂)		Q	H metres												
		kW	HP		0	6	12	18	24	30	36	42					
Three-phase					0	100	200	300	400	500	600	700					
6SR 120G/75	3	5.5	7.5		61	58	55	52	46	40	31	20					
6SR 120G/100	5	7.5	10		98	95	91	85	78	66	52	30					
6SR 120G/150	7	11	15		136	132	128	120	108	92	73	45					
6SR 120G/200	9	15	20		177	170	163	155	140	120	94	56					
6SR 120G/250	12	18.5	25		233	230	220	205	188	159	125	75					
6SR 120G/300	14	22	30		272	267	255	240	218	185	143	80					
6SR 120G/400	19	30	40		372	360	345	325	295	253	195	115					

6SR175G

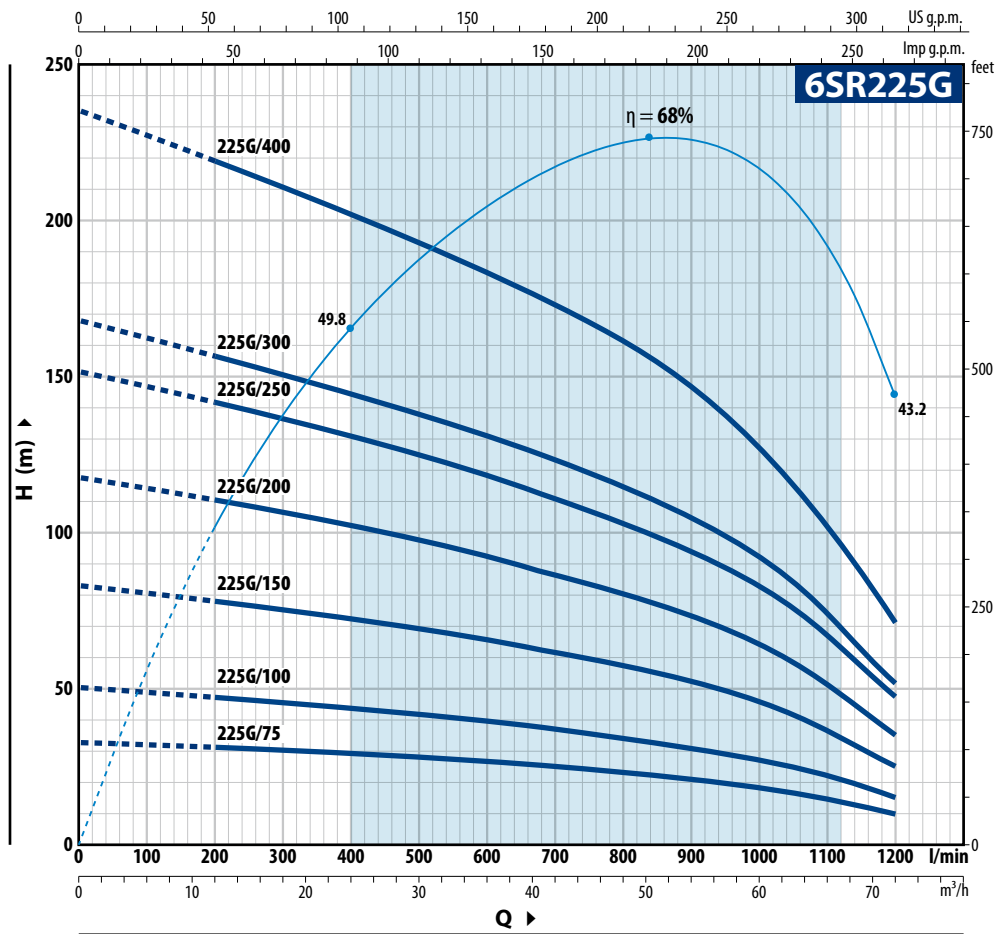
MODEL	N. STAGES	POWER (P ₂)		Q	H metres												
		kW	HP		0	12	18	24	30	36	42	48	54	57			
Three-phase					0	200	300	400	500	600	700	800	900	950			
6SR 175G/75	3	5.5	7.5		50	47	44	40	36	32	27	21	14.5	10			
6SR 175G/100	5	7.5	10		83	78	73	67	60.5	53	45	35.5	24.5	17			
6SR 175G/150	7	11	15		116	109	102.5	94	84.5	74.5	63	49.5	34.5	24			
6SR 175G/200	10	15	20		166	156	146.5	134.5	121	106.5	90.5	71	49.5	35			
6SR 175G/250	12	18.5	25		200	187	176	161.5	145	128	108.5	85	59	42			
6SR 175G/300	14	22	30		233	218	205.5	188.5	169.5	149.5	126.5	99.5	69	49			
6SR 175G/400	19	30	40		316	297	279	256	230	203	172	135	94	67			

Q = Flow rate H = Total manometric head

Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 min⁻¹



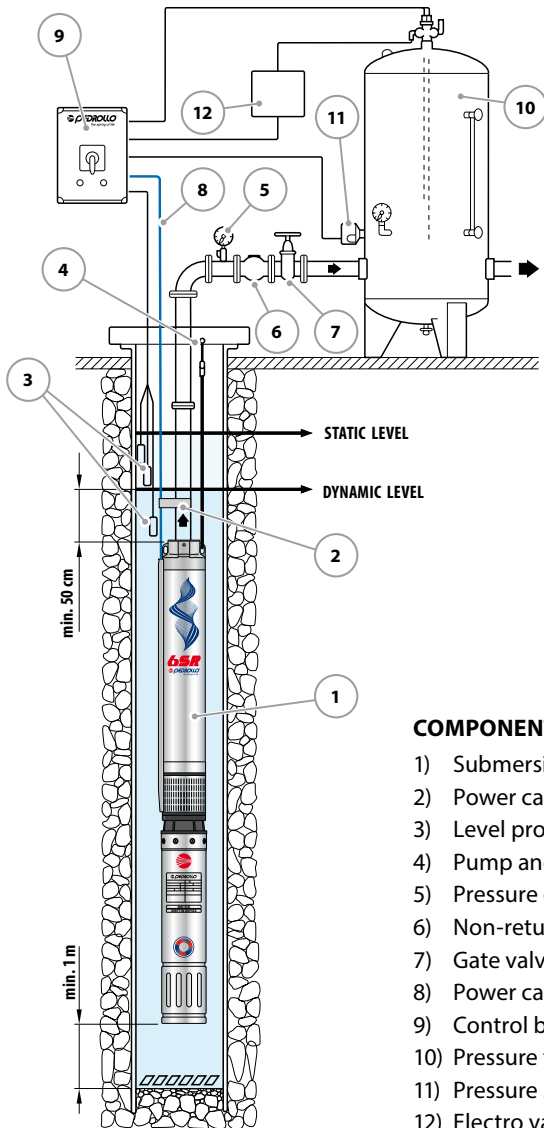
6SR225G

MODEL	N. STAGES	POWER (P ₂)		Q	Flow rate (Q)						
		kW	HP		0	12	24	36	48	60	72
Three-phase					0	200	400	600	800	1000	1200
6SR 225G/75	2	5.5	7.5	H metres	33	31	29	26	23	18	10
6SR 225G/100	3	7.5	10		50	47	43	39	34.5	27.5	15
6SR 225G/150	5	11	15		84	79	72	65.5	57.5	46	25
6SR 225G/200	7	15	20		117	110	101	91.5	80.5	64.5	35
6SR 225G/250	9	18.5	25		151	142	130	118	104	83	46
6SR 225G/300	10	22	30		167	157	144	131	115.5	92	51
6SR 225G/400	14	30	40		235	220	202	183.5	161.5	129	71

Q = Flow rate H = Total manometric head

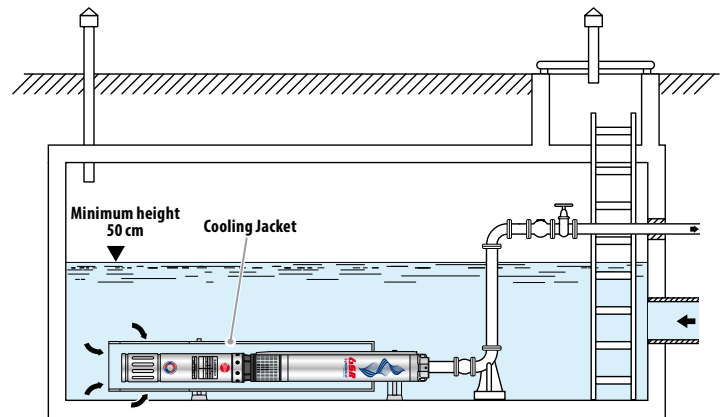
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

TYPICAL INSTALLATION



COMPONENTS

- 1) Submersible pump
- 2) Power cable clamps
- 3) Level probes
- 4) Pump anchorage
- 5) Pressure gauge
- 6) Non-return valve
- 7) Gate valve; for flow rate regulation
- 8) Power cable
- 9) Control box
- 10) Pressure tank
- 11) Pressure switch
- 12) Electro valve/electro-compressor



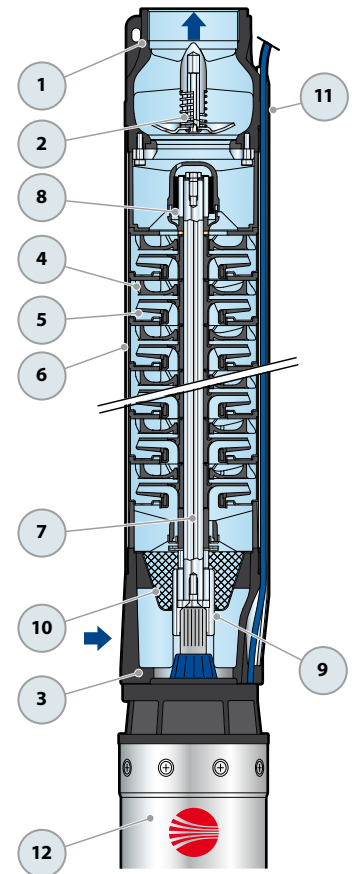
Cooling jacket

When the pump is installed in storage tanks, rivers or lakes an external jacket must be fitted to establish a flow of cooling water to prevent overheating of the motor.

➡ The **6SR** series pumps should be installed in boreholes of at least 6" (150 mm) in diameter. The pump should be lowered into the borehole, by means of the delivery pipe, to such a depth (min. 50 cm and at least one metre from the bottom) that it is completely immersed during operation when the level of water in the borehole may reduce. It is good practice to secure the pump by attaching a stainless steel cable to the anchorage points present on the delivery body.

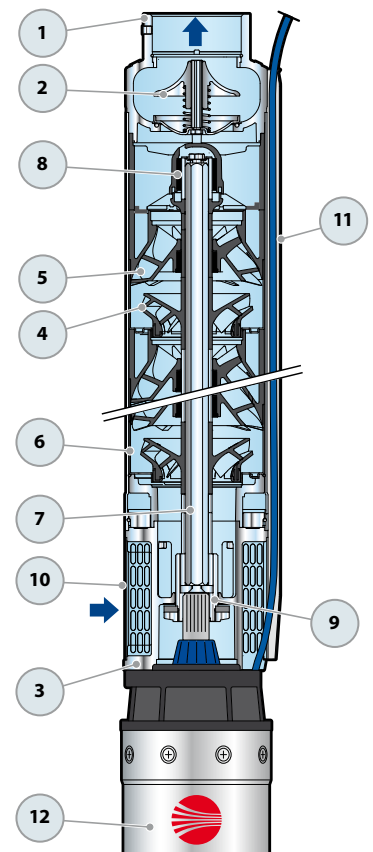
6SR12-18-27 (Radial impellers)

POS. COMPONENT	CONSTRUCTION CHARACTERISTICS
1 DELIVERY BODY	Cast iron with an Epoxy Electro Coating treatment complete with threaded delivery port in compliance with NPT ANSI B 1.20.1
2 NON-RETURN VALVE	Stainless steel AISI 304
3 MOTOR BRACKET	Cast iron with an Epoxy Electro Coating treatment in compliance with NEMA standards
4 IMPELLERS	Special-rubber coated Noryl
5 DIFFUSERS	Noryl
6 DIFFUSER CASING	Stainless steel AISI 304
7 PUMP SHAFT	Stainless steel AISI 304
8 PUMP BEARINGS	Elastomer housing with stainless steel AISI 316, chrome oxide coated, sand resistant shaft bushing
9 DRIVE COUPLING	Stainless steel AISI 420
10 FILTER	Stainless steel AISI 304
11 CABLE COVER	Stainless steel AISI 304
12 MOTOR 6"	6PD = rewindable oil filled submersible motor



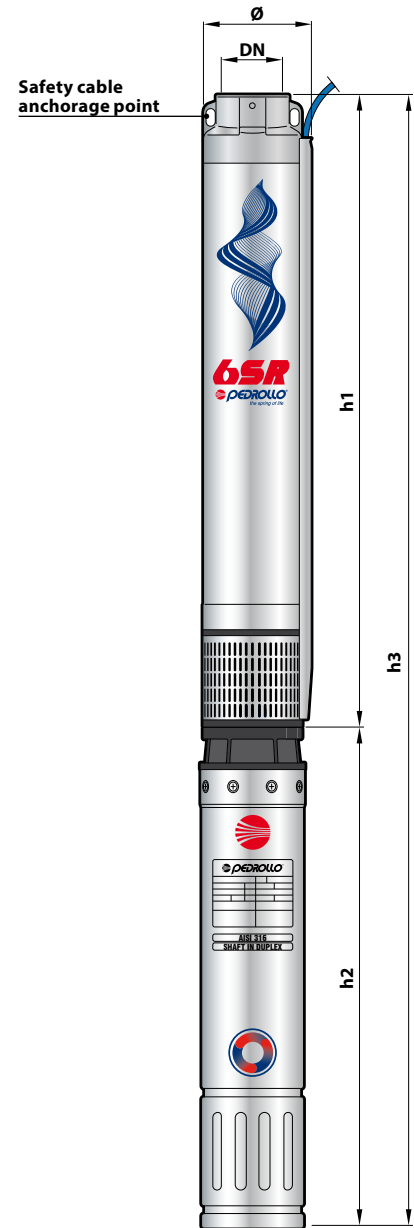
6SR36-44 (Semi-axial impellers)

POS. COMPONENT	CONSTRUCTION CHARACTERISTICS
1 DELIVERY BODY	Stainless steel AISI 304 complete with threaded delivery port in compliance with NPT ANSI B 1.20.1
2 NON-RETURN VALVE	Stainless steel AISI 304
3 MOTOR BRACKET	Cast iron in compliance with NEMA standards
4 IMPELLERS	Noryl e ricoperte in gomma speciale
5 DIFFUSERS	Noryl
6 DIFFUSER CASING	Stainless steel AISI 304
7 PUMP SHAFT	Stainless steel AISI 304
8 PUMP BEARINGS	Special technopolymer housing with stainless steel AISI 316, chrome oxide coated, sand resistant shaft bushing
9 DRIVE COUPLING	Stainless steel AISI 420
10 FILTER	Stainless steel AISI 304
11 CABLE COVER	Stainless steel AISI 304
12 MOTOR 6"	6PD = rewindable oil filled submersible motor



DIMENSIONS AND WEIGHT (pumps paired with 6PD submersible motor)

MODEL Three-phase	PORT DN	N. STAGES	DIMENSIONS mm			kg 3~	
			∅	h1	h2		h3
6SR 70G/75 - PD	3" NPT	7	149.5	676	625	1301	55.0
6SR 70G/100 - PD		9		763	660	1423	60.5
6SR 70G/150 - PD		14		1025	765	1790	77.5
6SR 70G/200 - PD		19		1241	820	2061	89.0
6SR 100G/75 - PD		4		545	625	1170	51.6
6SR 100G/100 - PD		6		632	660	1292	56.6
6SR 100G/150 - PD		9		807	765	1572	75.5
6SR 100G/200 - PD		12		938	820	1758	83.6
6SR 100G/250 - PD		15		1068	883	1951	92.6
6SR 100G/300 - PD		18		1198	953	2151	117.6
6SR 120G/75 - PD		3		530	625	1155	46.5
6SR 120G/100 - PD		5		636	660	1296	56.5
6SR 120G/150 - PD		7		742	765	1507	69.8
6SR 120G/200 - PD		9		891	820	1711	80.2
6SR 120G/250 - PD		12		1051	883	1934	91.6
6SR 120G/300 - PD		14		1157	953	2110	115.9
6SR 120G/400 - PD		19		1422	1098	2520	125.8
6SR 175G/75 - PD		3		710	625	1335	56.0
6SR 175G/100 - PD		5		936	660	1596	63.1
6SR 175G/150 - PD		7		1162	765	1927	80.1
6SR 175G/200 - PD		10		1501	820	2321	91.2
6SR 175G/250 - PD		12		1726	883	2609	107.5
6SR 175G/300 - PD		14		1952	953	2905	135.0
6SR 175G/400 - PD		19		2517	1098	3615	147.0
6SR 225G/75 - PD		2		597	625	1222	54.5
6SR 225G/100 - PD		3		710	660	1370	59.0
6SR 225G/150 - PD		5		936	765	1701	74.1
6SR 225G/200 - PD		7		1162	820	1982	87.1
6SR 225G/250 - PD	9	1388	883	2271	100.0		
6SR 225G/300 - PD	10	1501	953	2454	124.5		
6SR 225G/400 - PD	14	1952	1098	3050	139.0		



6PD = rewindable oil filled submersible motor

DIMENSIONS AND WEIGHT (pump only)

MODEL Pump	PORT DN	N. STAGES	DIMENSIONS mm		kg
			Ø	h1	
6SR 70G/75 - HYD	3" NPT	7	149.5	676	19.0
6SR 70G/100 - HYD		9		763	21.5
6SR 70G/150 - HYD		14		1025	27.5
6SR 70G/200 - HYD		19		1241	32.0
6SR 100G/75 - HYD		4		545	15.6
6SR 100G/100 - HYD		6		632	17.6
6SR 100G/150 - HYD		9		807	25.5
6SR 100G/200 - HYD		12		938	26.6
6SR 100G/250 - HYD		15		1068	27.6
6SR 100G/300 - HYD		18		1198	30.6
6SR 120G/75 - HYD		3		530	10.5
6SR 120G/100 - HYD		5		636	17.5
6SR 120G/150 - HYD		7		742	19.8
6SR 120G/200 - HYD		9		891	23.2
6SR 120G/250 - HYD		12		1051	26.6
6SR 120G/300 - HYD		14		1157	28.9
6SR 120G/400 - HYD		19		1422	34.8
6SR 175G/75 - HYD		3		710	20.0
6SR 175G/100 - HYD		5		936	24.1
6SR 175G/150 - HYD		7		1162	30.1
6SR 175G/200 - HYD		10		1501	34.2
6SR 175G/250 - HYD		12		1726	42.5
6SR 175G/300 - HYD		14		1952	48.0
6SR 175G/400 - HYD		19		2517	56.0
6SR 225G/75 - HYD		2		597	18.5
6SR 225G/100 - HYD		3		710	20.0
6SR 225G/150 - HYD		5		936	24.1
6SR 225G/200 - HYD		7		1162	30.1
6SR 225G/250 - HYD	9	1388	35.0		
6SR 225G/300 - HYD	10	1501	37.5		
6SR 225G/400 - HYD	14	1952	48.0		

