

4" submersible pumps



Clean water
(Maximum
sand content 150 g/m³)



Domestic use



Civil use



Industrial use



PERFORMANCE RANGE

- Flow rate up to **450 l/min** (27 m³/h)
- Head up to **238 m**

APPLICATION LIMITS

- Maximum liquid temperature **+35 °C**
- Maximum sand content **150 g/m³**
- **200 m** immersion limit
- Installation:
 - vertical
 - horizontal, with the following limits: up to **10 stages**
- Starts/hour: **20** at regular intervals
- Minimum flow rate for motor cooling **8 cm/s**
- Continuous service **S1**

INSTALLATION AND USE

Suitable for use with clean water with a sand content of no more than **150 g/m³**. Because of their high efficiency and reliability, they are suitable for use in domestic, civil and industrial applications such as for the distribution of water in combination with pressure tanks, for irrigation, for washing plants etc.

PATENTS

- Patent n. **EP2419642**

CONSTRUCTION AND SAFETY STANDARDS

ELECTRIC MOTOR

- Three-phase 380 V - 60 Hz
- Single-phase 220 V - 60 Hz
- **Capacitor included in the packaging**

Length of power cable:

- **2 m** powers from 1.1 to 2.2 kW
- **3.6 m** powers from 3 to 7.5 kW.

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

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



OPTIONS AVAILABLE ON REQUEST

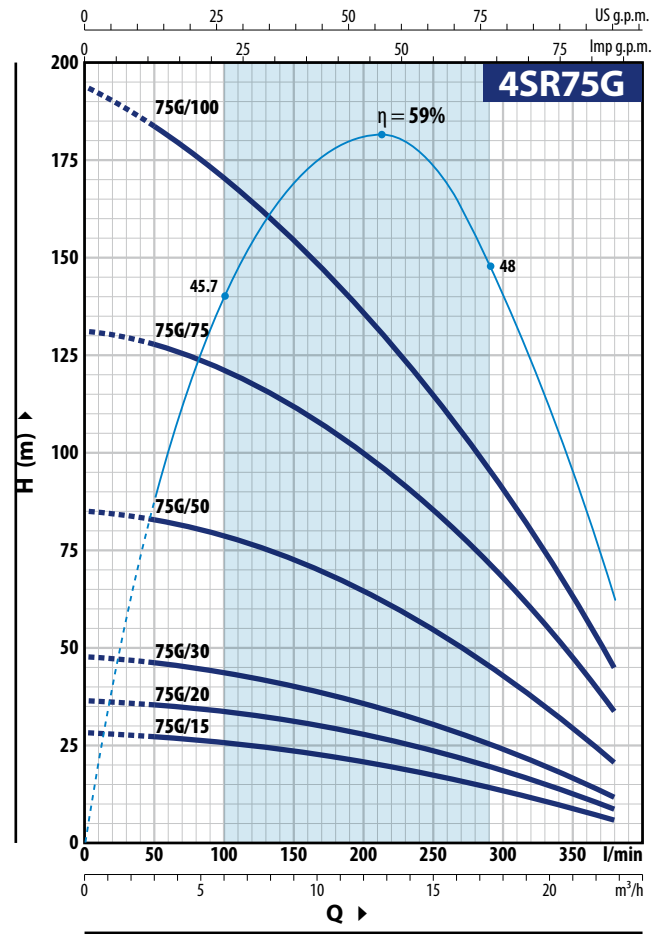
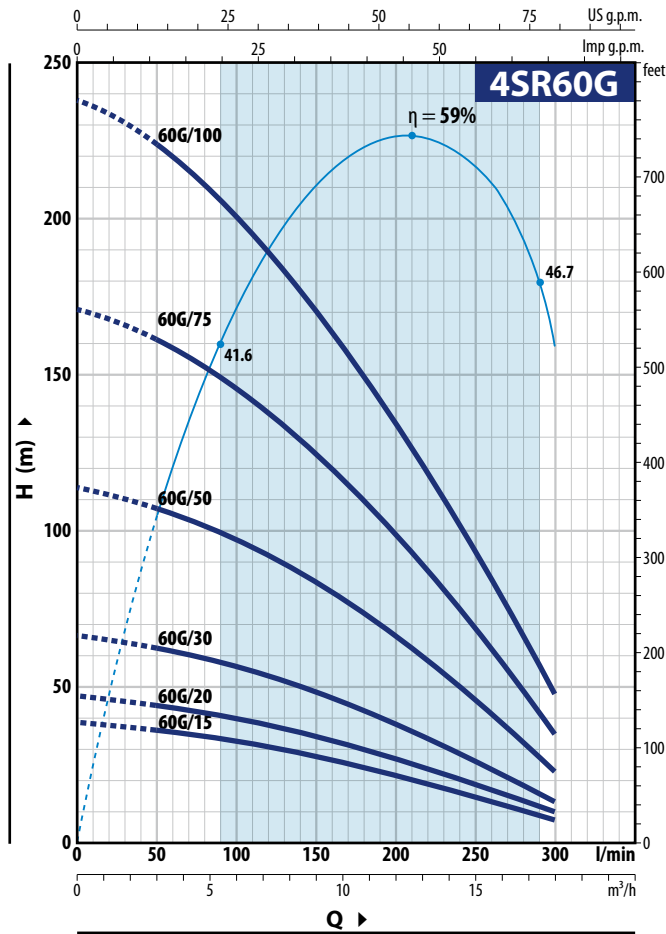
- Pump body with ISO 228/1 threaded ports
- Other voltages
- Kit of cooling jacket complete with filter and supports; recommended for powers from 2.2 kW to 7.5 kW



COOLING JACKET

CHARACTERISTIC CURVES AND PERFORMANCE DATA

60 Hz n = 3450 min⁻¹



4SR60G

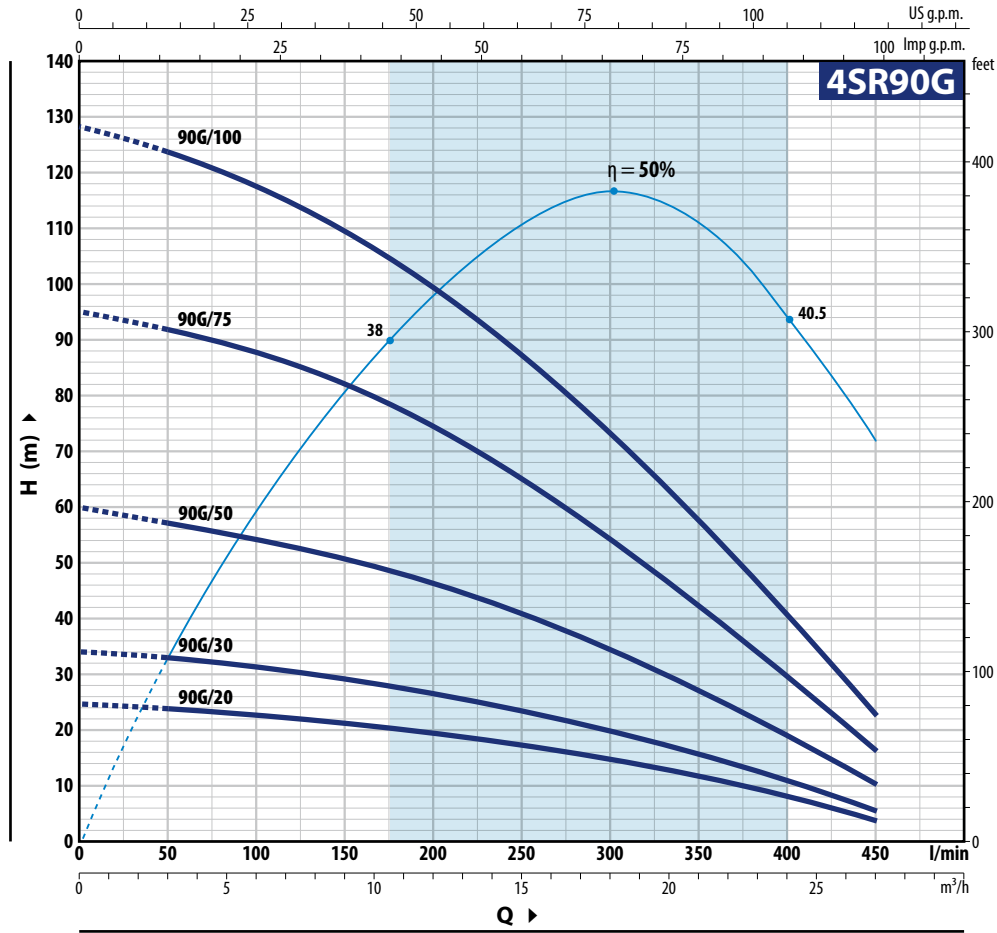
MODEL		N. STAGES	POWER (P ₂)		Q	H metres							
Single-phase	Three-phase		kW	HP		m ³ /h	0	3.0	6.0	9.0	12.0	15.0	18.0
					l/min	0	50	100	150	200	250	300	
4SRm 60G/15	4SR 60G/15	4	1.1	1.5	H metres	38	36	32	28	22	15	8	
4SRm 60G/20	4SR 60G/20	5	1.5	2		47	44	39.5	34	27.5	19	10	
4SRm 60G/30	4SR 60G/30	7	2.2	3		66	63	56	47.5	38	27	14	
-	4SR 60G/50	12	3.7	5		114	108	97	83	66	46	23	
-	4SR 60G/75	18	5.5	7.5		171	161	146	124	98	68	35	
-	4SR 60G/100	25	7.5	10		238	224	201	172	134	93	48	

4SR75G

MODEL		N. STAGES	POWER (P ₂)		Q	H metres								
Single-phase	Three-phase		kW	HP		m ³ /h	0	3.0	6.0	9.0	12.0	15.0	18.0	21.0
					l/min	0	50	100	150	200	250	300	350	380
4SRm 75G/15	4SR 75G/15	3	1.1	1.5	H metres	28	27	25.5	23.5	21	18	14	9	6
4SRm 75G/20	4SR 75G/20	4	1.5	2		36	36	34	32	28	23	18	12.5	9
4SRm 75G/30	4SR 75G/30	5	2.2	3		47	46	44	40	35	30	22.5	17	12
-	4SR 75G/50	9	3.7	5		85	83	79	72	64.5	54	42	28.5	21
-	4SR 75G/75	14	5.5	7.5		130	127	122	113	102	85	66	46	34
-	4SR 75G/100	19	7.5	10		192	185	173	156	135	112	87	61	46

Q = Flow rate H = Total manometric head

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



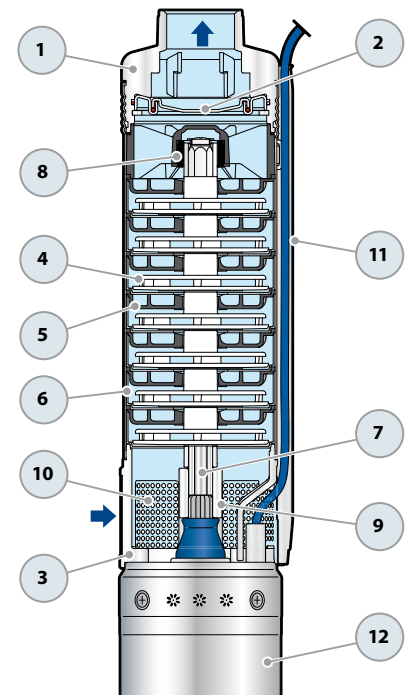
4SR90G

MODEL		N. STAGES	POWER (P ₂)		Q	H metres																				
Single-phase	Three-phase		kW	HP		0	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	0	50	100	150	200	250	300	350	400	450	
4SRm 90G/20	4SR 90G/20	3	1.5	2	H metres	25	24	23	22	20	18	15	12	8	4											
4SRm 90G/30	4SR 90G/30	4	2.2	3		34	33	32	30	27	24	20	16	11	6											
-	4SR 90G/50	7	3.7	5		60	58	54	50	47	42	34	26	18	11											
-	4SR 90G/75	11	5.5	7.5		95	92	88	83	75	66	56	42	29	17											
-	4SR 90G/100	15	7.5	10		128	124	117	110	100	88	74	57	40	23											

Q = Flow rate H = Total manometric head

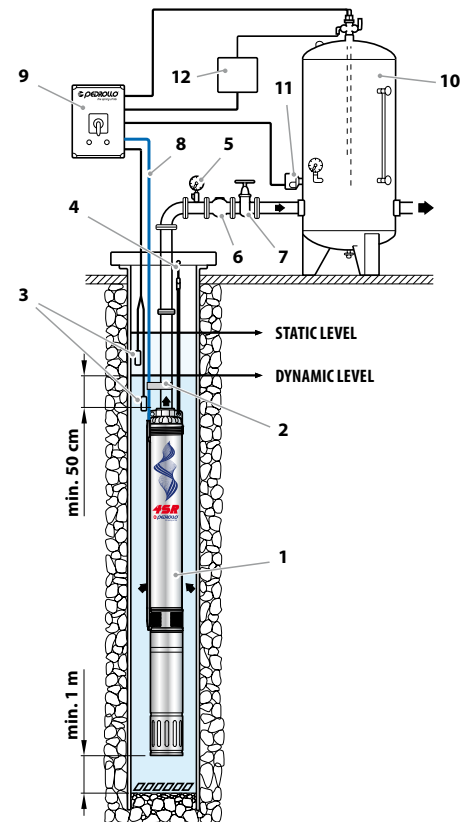
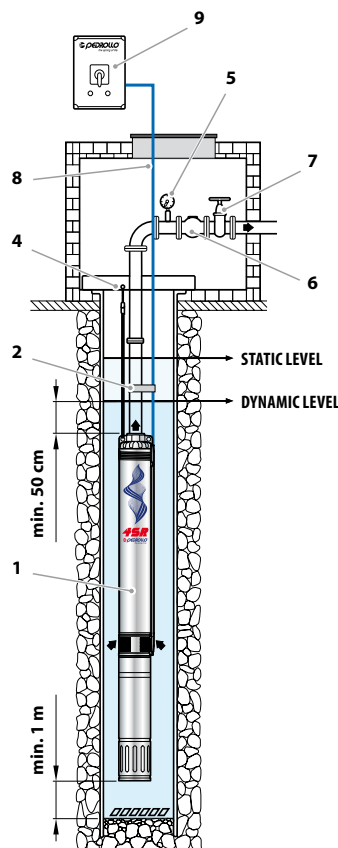
Tolerance of characteristic curves in compliance with EN ISO 9906 Grade 3B.

POS. COMPONENT	CONSTRUCTION CHARACTERISTICS
1 DELIVERY BODY	Precision cast 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	Stainless steel AISI 304, in compliance with NEMA standards
4 IMPELLER	Noryl
5 DIFFUSER	Noryl
6 STAGE 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 316L up to 2.2 kW; stainless steel AISI 304 for higher powers
10 FILTER	Stainless steel AISI 304
11 CABLE COVER	Stainless steel AISI 304
12 MOTOR 4"	4PD = rewindable oil filled submersible motor



STANDARD INSTALLATION

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

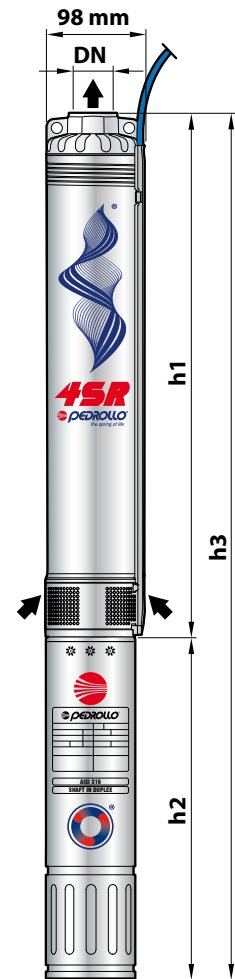


► The 4SR series pumps should be installed in boreholes of at least 4" (100 mm) in diameter. The pump should be lowered into the borehole, by means of the delivery pipe, to such a depth (min. 50 cm and at least one metre from the bottom) that it is completely immersed during operation when the level 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.

DIMENSIONS AND WEIGHT (pumps paired with 4PD submersible motor)

MODEL	DN	N. STAGES	DIMENSIONS mm			kg 1~
			h1	h2	h3	
4SRm 60G/15 - PD	2" NPT	4	365	396	761	14.2
4SRm 60G/20 - PD		5	416	437	853	16.1
4SRm 60G/30 - PD		7	518	492	1010	20.2
4SRm 75G/15 - PD		3	314	396	710	13.8
4SRm 75G/20 - PD		4	365	437	802	15.7
4SRm 75G/30 - PD		5	416	492	908	19.3
4SRm 90G/20 - PD		3	317	437	754	15.4
4SRm 90G/30 - PD		4	369	492	861	19.0

MODEL	DN	N. STAGES	DIMENSIONS mm			kg 3~
			h1	h2	h3	
4SR 60G/15 - PD	2" NPT	4	365	371	736	13.4
4SR 60G/20 - PD		5	416	396	812	14.6
4SR 60G/30 - PD		7	518	437	955	17.0
4SR 60G/50 - PD		12	810	505	1315	24.1
4SR 60G/75 - PD		18	1154	700	1854	35.7
4SR 60G/100 - PD		25	1548	800	2348	44.1
4SR 75G/15 - PD		3	314	371	685	13.0
4SR 75G/20 - PD		4	365	396	761	14.2
4SR 75G/30 - PD		5	416	437	853	16.1
4SR 75G/50 - PD		9	658	505	1163	22.7
4SR 75G/75 - PD		14	950	700	1650	33.6
4SR 75G/100 - PD		19	1206	800	2006	40.2
4SR 90G/20 - PD		3	317	396	713	13.9
4SR 90G/30 - PD		4	369	437	806	15.8
4SR 90G/50 - PD		7	525	505	1030	21.4
4SR 90G/75 - PD	11	770	700	1470	32.2	
4SR 90G/100 - PD	15	1016	800	1816	38.5	



DIMENSIONS AND WEIGHT (pump only)

MODEL	DN	N. STAGES	DIMENSIONS mm		kg
			h1	h	
4SR 60G/15 - HYD	2" NPT	4	365	368	4.0
4SR 60G/20 - HYD		5	416	419	4.4
4SR 60G/30 - HYD		7	518	521	5.3
4SR 60G/50 - HYD		12	810	813	8.0
4SR 60G/75 - HYD		18	1154	1157	11.0
4SR 60G/100 - HYD		25	1548	1551	15.1
4SR 75G/15 - HYD		3	314	317	3.6
4SR 75G/20 - HYD		4	365	368	4.0
4SR 75G/30 - HYD		5	416	419	4.4
4SR 75G/50 - HYD		9	658	661	6.6
4SR 75G/75 - HYD		14	950	953	8.9
4SR 75G/100 - HYD		19	1206	1209	11.2
4SR 90G/20 - HYD		3	317	320	3.7
4SR 90G/30 - HYD		4	369	372	4.1
4SR 90G/50 - HYD		7	525	528	5.3
4SR 90G/75 - HYD		11	770	773	7.5
4SR 90G/100 - HYD		15	1016	1019	9.5

