

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 **430 l/min** (25.8 m³/h)
- Head up to **447 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
- Starts per hour: **20** at regular intervals
- Minimum motor cooling flow **8 cm/s**
- Continuous running duty **S1**

INCLUDES

ELECTRIC MOTOR

- ※ Three-phase 380 V - 60 Hz
- ※ Single-phase 220 V - 60 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 or frequency
- ※ Cooling jacket kit

PATENTS:

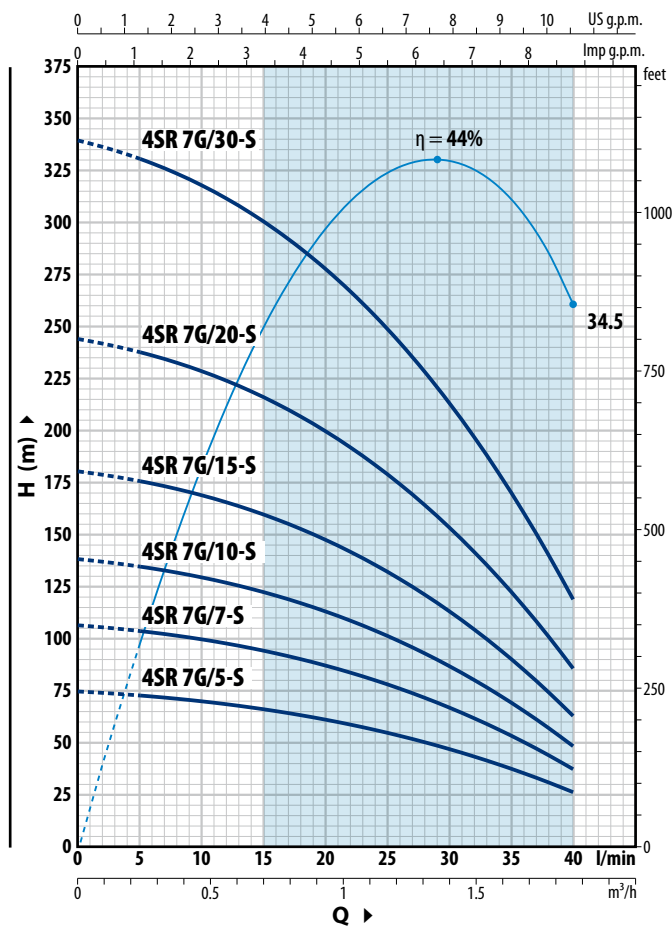
- European Patent No. EP3123031
- European Patent No. EP2419642 for 4SR-S
- Patent No. 10202100003057 for 4SR-S
- **4SR-S®** is a registered trademark No. 018702382
- **SABBIA®** is registered trademark no. 5456231



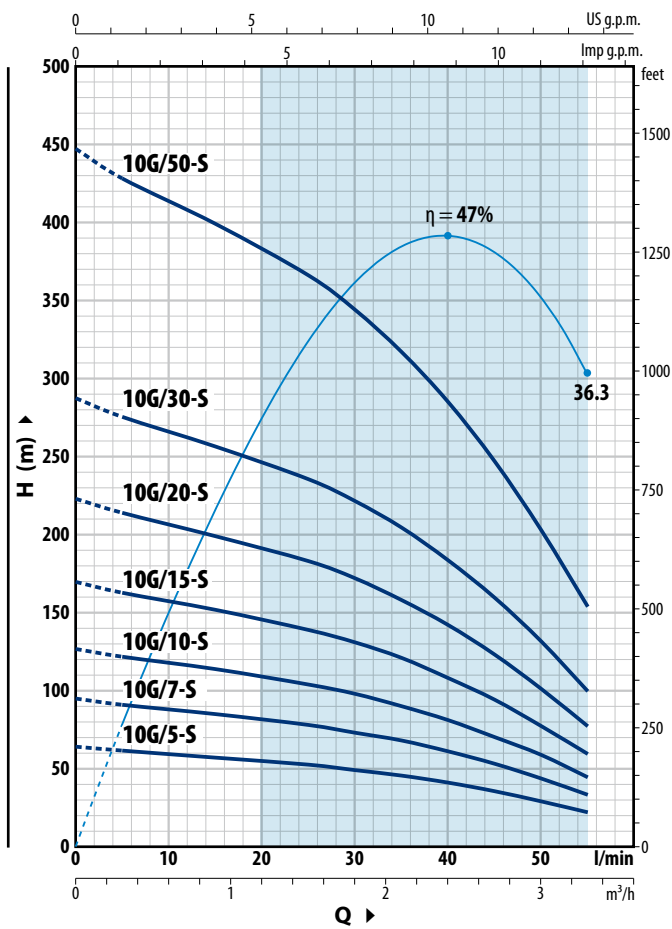
CURVES AND PERFORMANCE DATA

60 Hz

4SR7G-S



4SR10G-S



4SR7G-S

MODEL		N. STAGES	POWER (P ₂)		Q	m³/h						
Single-phase	Three-phase		kW	HP		0	0.3	0.6	0.9	1.2	1.8	2.4
4SRm 7G/5 - S	4SR 7G/5 - S	7	0.37	0.5	H m	0	5	10	15	20	30	40
4SRm 7G/7 - S	4SR 7G/7 - S	10	0.55	0.75		74	72	69.5	66	61	46.5	26
4SRm 7G/10 - S	4SR 7G/10 - S	13	0.75	1		106	104	100	94	87	66.5	37
4SRm 7G/15 - S	4SR 7G/15 - S	17	1.1	1.5		138	135	129	122	113	87	48.5
4SRm 7G/20 - S	4SR 7G/20 - S	23	1.5	2		181	176	169	160	148	113	63
4SRm 7G/30 - S	4SR 7G/30 - S	32	2.2	3		245	238	229	216	200	153	85
						340	331	319	301	278	214	119

4SR10G-S

MODEL		N. STAGES	POWER (P ₂)		Q	m³/h							
Single-phase	Three-phase		kW	HP		0	0.3	0.6	1.2	1.8	2.4	3.0	3.3
4SRm 10G/5 - S	4SR 10G/5 - S	6	0.37	0.50	H m	0	5	10	20	30	40	50	55
4SRm 10G/7 - S	4SR 10G/7 - S	9	0.55	0.75		64	61.5	59	55	49	41	29	22
4SRm 10G/10 - S	4SR 10G/10 - S	12	0.75	1		96	92	89	82	74	61	43.5	33
4SRm 10G/15 - S	4SR 10G/15 - S	16	1.1	1.5		128	123	118	110	98	82	58.5	44
4SRm 10G/20 - S	4SR 10G/20 - S	21	1.5	2		170	163	158	146	131	109	78	59
4SRm 10G/30 - S	4SR 10G/30 - S	27	2.2	3		224	214	207	192	172	143	102	77
4SRm 10G/50 - S	4SR 10G/50 - S	42	3.7	5		288	276	266	247	221	184	131	99
						447	429	414	384	344	286	204	155

Q = Flow rate H = Total manometric head

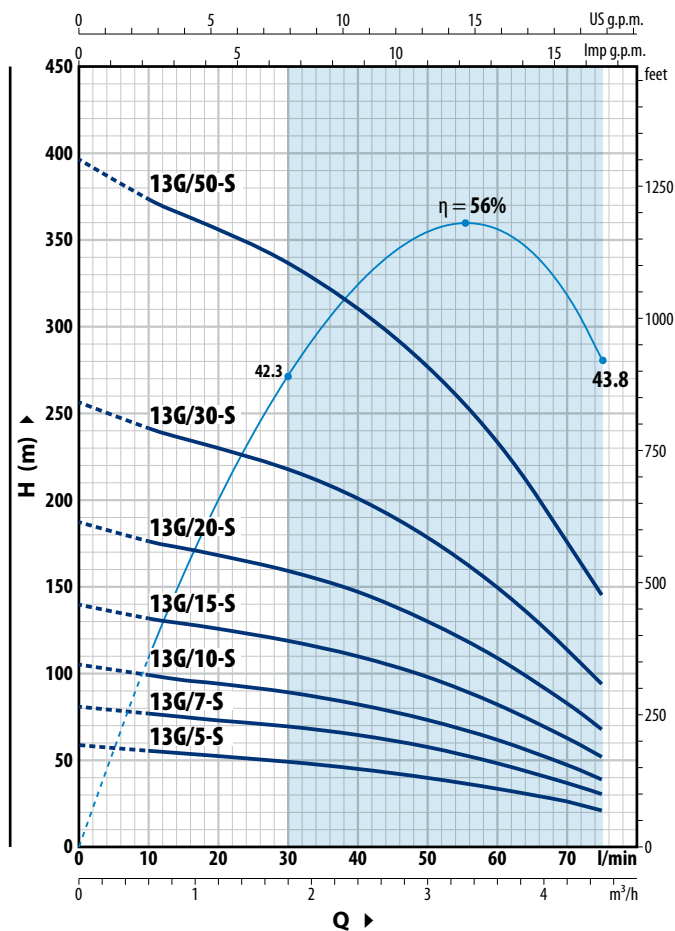
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

4SR-S 4" submersible pumps

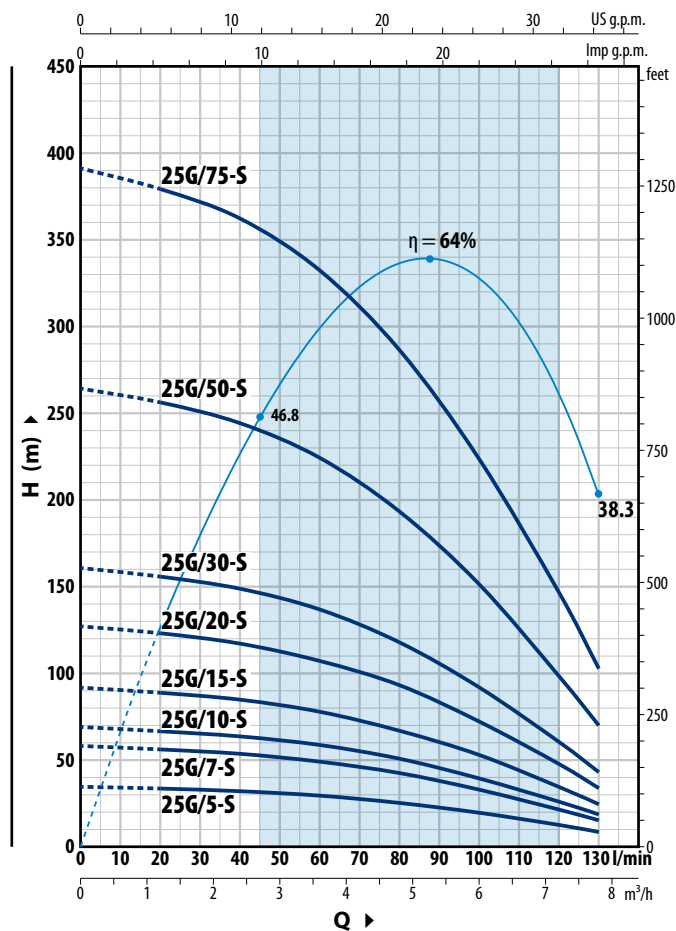
CURVES AND PERFORMANCE DATA

60 Hz

4SR13G-S



4SR25G-S



4SR13G-S

MODEL		N. STAGES	POWER (P ₂)		Q	m³/h								
Single-phase	Three-phase		kW	HP		0	0.6	1.2	1.8	2.4	3.0	3.6	4.2	4.5
4SRm 13G/5 - S	4SR 13G/5 - S	5	0.37	0.50	H m	0	10	20	30	40	50	60	70	75
4SRm 13G/7 - S	4SR 13G/7 - S	7	0.55	0.75		58.5	55	52.5	49.5	46	41	34	26	21.5
4SRm 13G/10 - S	4SR 13G/10 - S	9	0.75	1		82	77	74	69.5	64.5	57.5	48	36.5	30
4SRm 13G/15 - S	4SR 13G/15 - S	12	1.1	1.5		105	99	95	89	83	74	61.5	47	38.5
4SRm 13G/20 - S	4SR 13G/20 - S	16	1.5	2		140	132	126	119	110	98	82	62.5	51.5
4SRm 13G/30 - S	4SR 13G/30 - S	22	2.2	3		187	176	168	159	147	131	110	83	68.5
4SRm 13G/50 - S	4SR 13G/50 - S	34	3.7	5		257	242	231	219	202	180	151	114	94
						398	375	357	338	313	278	233	177	145

4SR25G-S

MODEL		N. STAGES	POWER (P ₂)		Q	m³/h							
Single-phase	Three-phase		kW	HP		0	1.2	2.4	3.6	4.8	6.0	7.2	7.8
4SRm 25G/5 - S	4SR 25G/5 - S	3	0.37	0.50	H m	0	20	40	60	80	100	120	130
4SRm 25G/7 - S	4SR 25G/7 - S	5	0.55	0.75		34.5	33.5	32	29.5	25.4	19.8	13	9
4SRm 25G/10 - S	4SR 25G/10 - S	6	0.75	1		58	56	53.5	49	42.5	33	21.6	15.5
4SRm 25G/15 - S	4SR 25G/15 - S	8	1.1	1.5		69.5	67	64	59	51	39.5	26	18.5
4SRm 25G/20 - S	4SR 25G/20 - S	11	1.5	2		92	90	85	78	67.5	53	34.5	24.5
4SRm 25G/30 - S	4SR 25G/30 - S	14	2.2	3		127	123	118	108	93	73	47.5	33.5
4SRm 25G/50 - S	4SR 25G/50 - S	23	3.7	5		162	157	150	137	118	93	60.5	43
-	4SR 25G/75 - S	34	5.5	7.5		266	258	246	226	195	152	100	70.5
						393	381	363	333	288	225	147	104

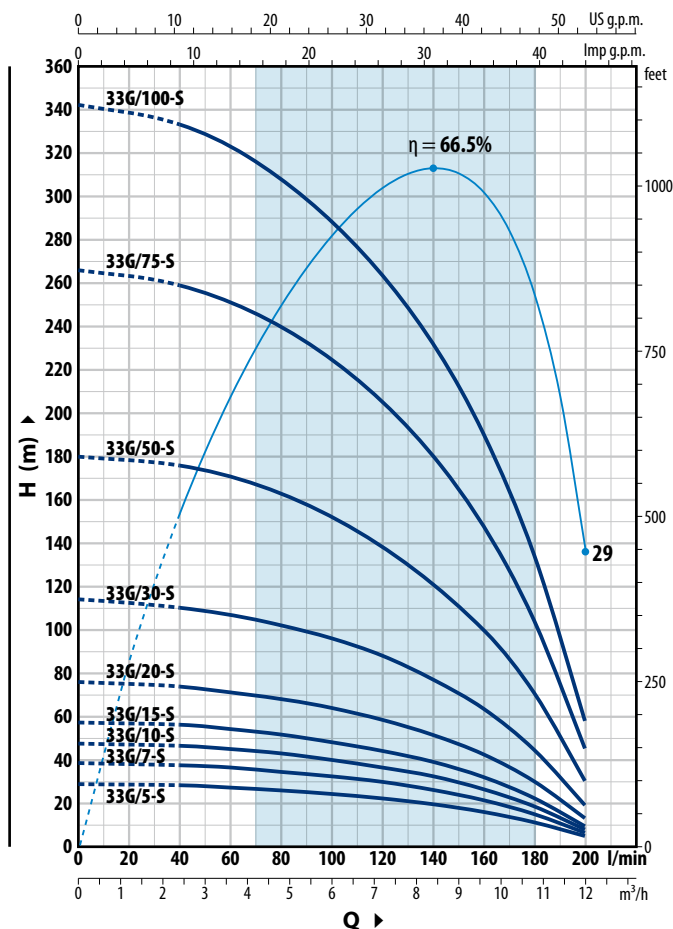
Q = Flow rate H = Total manometric head

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

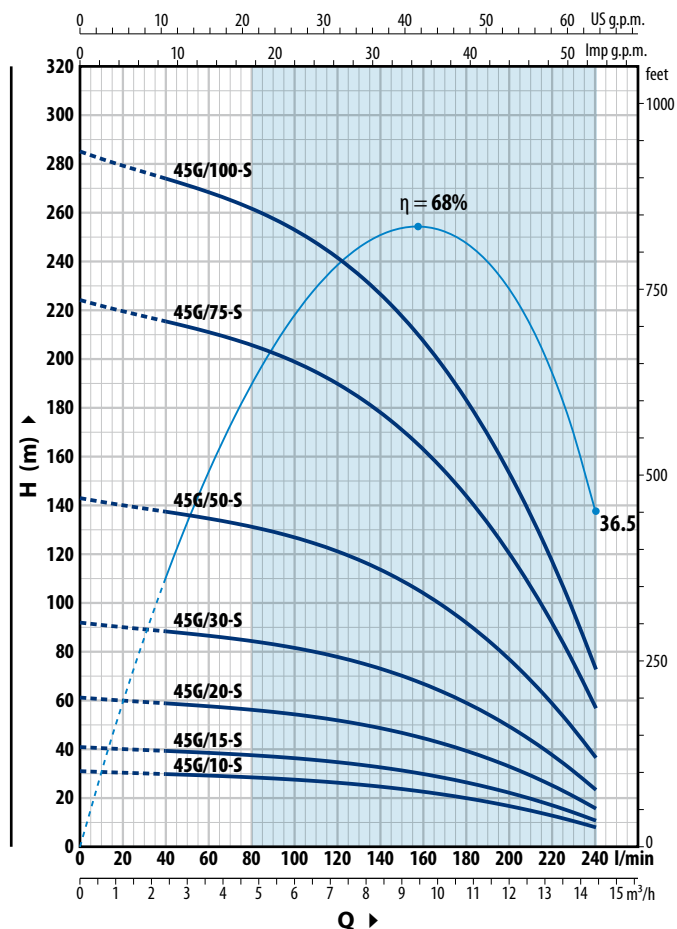
CURVES AND PERFORMANCE DATA

60 Hz

4SR33G-S



4SR45G-S



4SR33G-S

MODEL		N. STAGES	POWER (P ₂)		Q	m³/h										
Single-phase	Three-phase		kW	HP		0	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12.0	
4SRm 33G/5 - S	4SR 33G/5 - S	3	0.37	0.50	H m	0	40	60	80	100	120	140	160	180	200	
4SRm 33G/7 - S	4SR 33G/7 - S	4	0.55	0.75		28.5	28	26.8	25.7	24.1	22.1	19.4	15.9	11.1	5	
4SRm 33G/10 - S	4SR 33G/10 - S	5	0.75	1		38	37	36	34	32	29.5	25.9	21.2	14.9	6.5	
4SRm 33G/15 - S	4SR 33G/15 - S	6	1.1	1.5		47.5	46.5	44.5	43	40	37	32.5	26.5	18.6	8	
4SRm 33G/20 - S	4SR 33G/20 - S	8	1.5	2		57	55.5	53.5	51.5	48	44	39	32	22.3	9.5	
4SRm 33G/30 - S	4SR 33G/30 - S	12	2.2	3		76	74	72	68.5	64.5	59	52	42.5	29.5	13	
4SRm 33G/50 - S	4SR 33G/50 - S	19	3.7	5		114	111	107	103	96	88	78	63.5	44.5	19	
-	4SR 33G/75 - S	28	5.5	7.5		181	176	170	162	153	140	123	101	70.5	30.5	
-	4SR 33G/100 - S	36	7.5	10		267	259	251	239	225	206	182	148	104	45	
						343	333	322	308	289	265	233	191	134	57.5	

4SR45G-S

MODEL		N. STAGES	POWER (P ₂)		Q	m³/h						
Single-phase	Three-phase		kW	HP		0	2.4	4.8	7.2	9.6	12.0	14.4
4SRm 45G/10 - S	4SR 45G/10 - S	3	0.75	1	H m	0	40	80	120	160	200	240
4SRm 45G/15 - S	4SR 45G/15 - S	4	1.1	1.5		30.5	29.5	28	25.9	22.2	16.4	7.5
4SRm 45G/20 - S	4SR 45G/20 - S	6	1.5	2		41	39	37.5	34.5	29.5	21.8	10.5
4SRm 45G/30 - S	4SR 45G/30 - S	9	2.2	3		61	59	56	52	44.5	32.5	15.5
4SRm 45G/50 - S	4SR 45G/50 - S	14	3.7	5		92	88	84	78	66.5	49	23
-	4SR 45G/75 - S	22	5.5	7.5		143	137	131	121	104	76	36
-	4SR 45G/100 - S	28	7.5	10		224	216	206	190	163	120	57
						286	274	262	242	207	153	72.5

Q = Flow rate H = Total manometric head

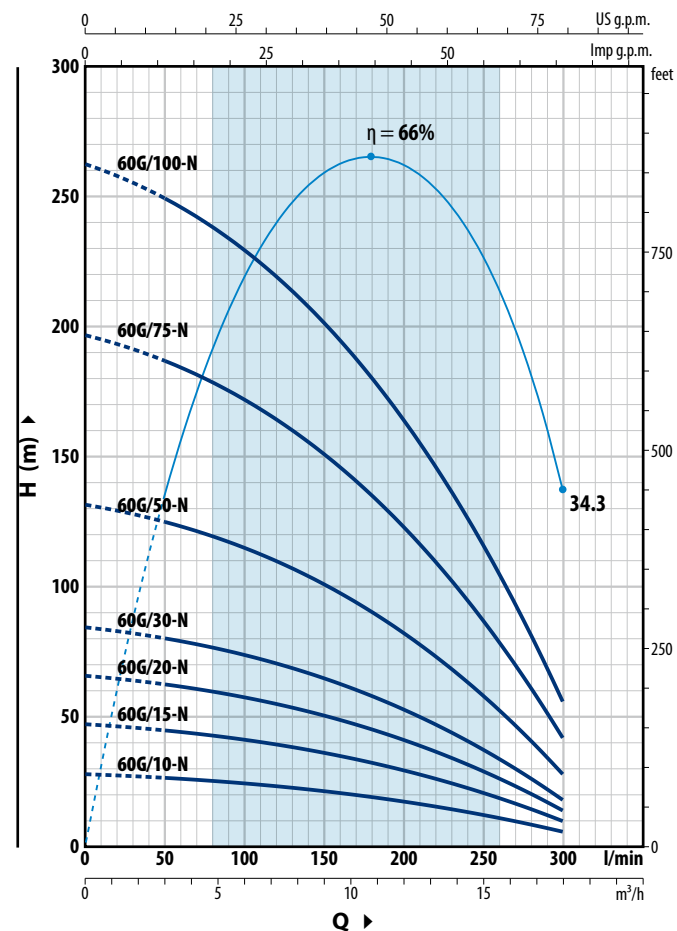
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

4SR-N 4" submersible pumps

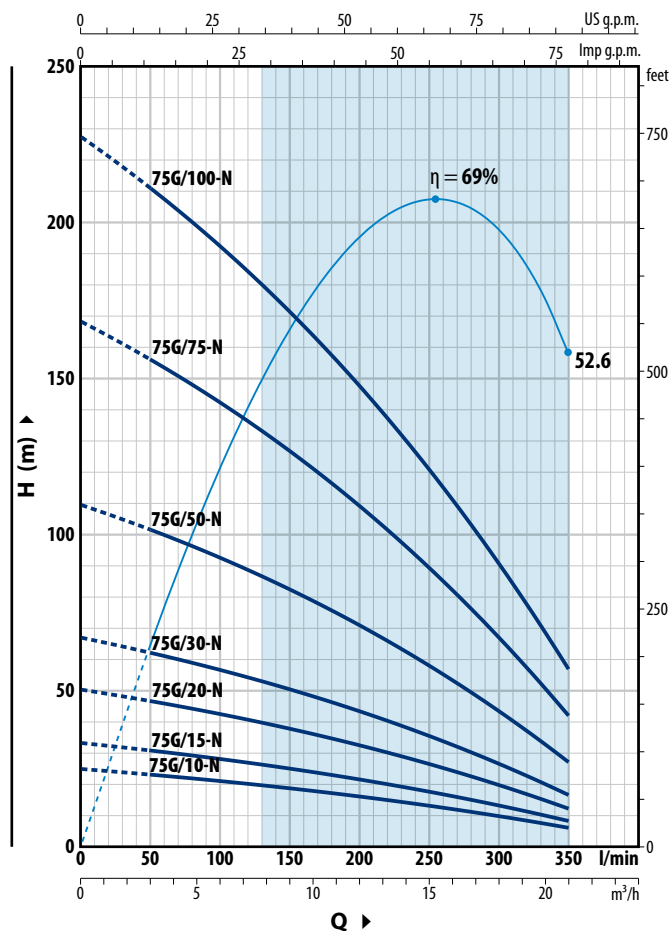
CURVES AND PERFORMANCE DATA

60 Hz

4SR60G-N



4SR75G-N



4SR60G-N

MODEL		N.	POWER (P ₂)		Q	m³/h	0	3	6	9	12	15	18
Single-phase	Three-phase	STAGES	kW	HP		l/min	0	50	100	150	200	250	300
4SRm 60G/10 -N	4SR 60G/10 -N	3	0.75	1	H m	28	26.5	24.6	21.6	17.6	12.4	6	
4SRm 60G/15 -N	4SR 60G/15 -N	5	1.1	1.5		47	44.5	41	36	29.5	20.7	10	
4SRm 60G/20 -N	4SR 60G/20 -N	7	1.5	2		65.5	62.5	57.5	50.5	41	29	14	
4SRm 60G/30 -N	4SR 60G/30 -N	9	2.2	3		84	80	74	65	53	37.5	18	
–	4SR 60G/50 -N	14	3.7	5		131	125	115	101	82	58	28	
–	4SR 60G/75 -N	21	5.5	7.5		197	187	172	151	123	87	42	
–	4SR 60G/100-N	28	7.5	10		263	249	229	201	164	116	56	

4SR75G-N

MODEL		N.	POWER (P2)		Q	m³/h	0	3	6	9	12	15	18	21
Single-phase	Three-phase	STAGES	kW	HP		l/min	0	50	100	150	200	250	300	350
4SRm 75G/10 -N	4SR 75G/10 -N	3	0.75	1	H m	25.5	23.5	21.4	19.1	16.4	13.5	10.1	6.5	
4SRm 75G/15 -N	4SR 75G/15 -N	4	1.1	1.5		33.5	31.5	28.5	25.4	21.9	17.9	13.5	8.5	
4SRm 75G/20 -N	4SR 75G/20 -N	6	1.5	2		50.5	47	43	38	33	26.9	20.2	12.5	
4SRm 75G/30 -N	4SR 75G/30 -N	8	2.2	3		67.5	62.5	57	51	44	36	27	17	
–	4SR 75G/50 -N	13	3.7	5		110	102	93	83	71	58.5	44	27.5	
–	4SR 75G/75 -N	20	5.5	7.5		169	156	143	127	109	90	67.5	42.5	
–	4SR 75G/100-N	27	7.5	10		228	211	192	171	148	121	91	57	

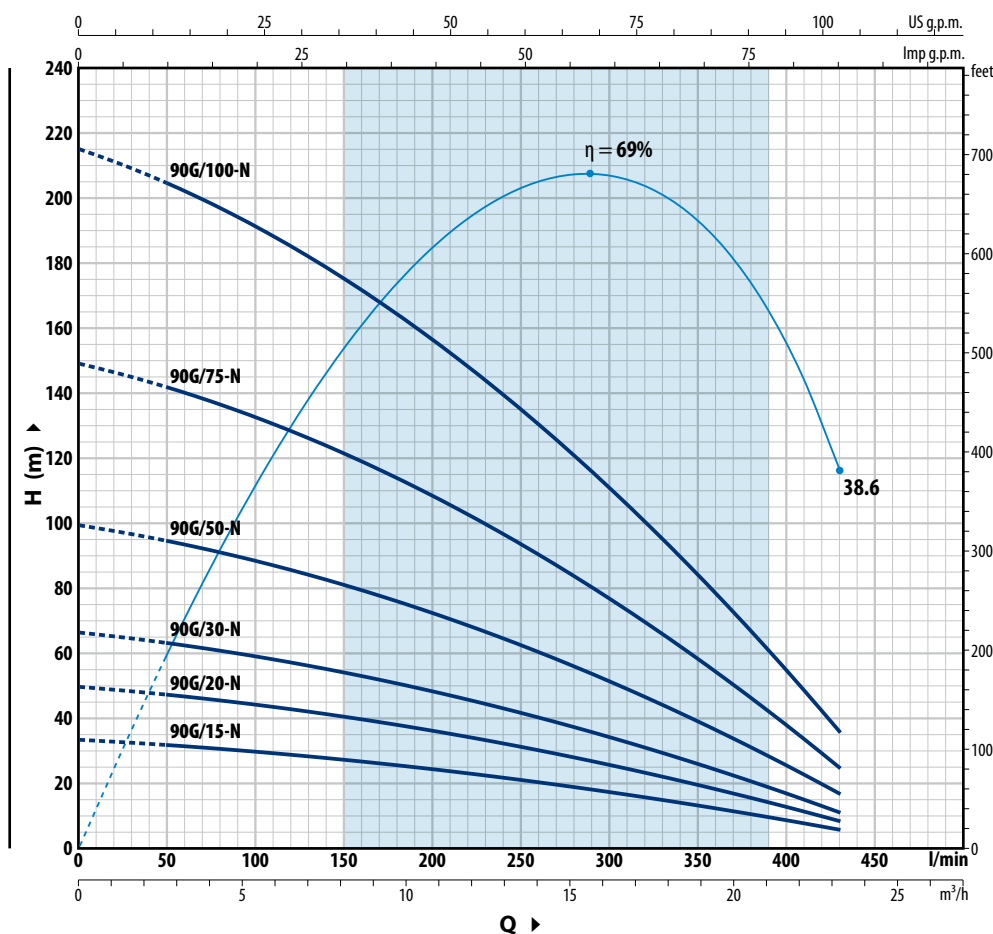
Q = Flow rate H = Total manometric head

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

CURVES AND PERFORMANCE DATA

60 Hz

4SR90G-N



4SR90G-N

MODEL		N. STAGES	POWER (P ₂)		Q													
Single-phase	Three-phase		kW	HP		m³/h	0	3	6	9	12	15	18	21	24	25.8		
						l/min	0	50	100	150	200	250	300	350	400	430		
4SRm 90G/15 -N	4SR 90G/15 -N	4	1.1	1.5	H m		33	31.5	29.5	26.9	24	20.7	17	12.9	8.5	5.5		
4SRm 90G/20 -N	4SR 90G/20 -N	6	1.5	2			49.5	47	44	40.5	36	31	25.5	19.3	12.5	8		
4SRm 90G/30 -N	4SR 90G/30 -N	8	2.2	3			66	63	59	54	48	41.5	34	25.7	16.5	11		
–	4SR 90G/50 -N	12	3.7	5			99	94	88	81	72	62	51	38.5	25	16.5		
–	4SR 90G/75 -N	18	5.5	7.5			149	142	132	121	108	93	76	58	37.5	24.5		
–	4SR 90G/100 -N	26	7.5	10			215	204	191	175	156	135	110	84	54	35.5		

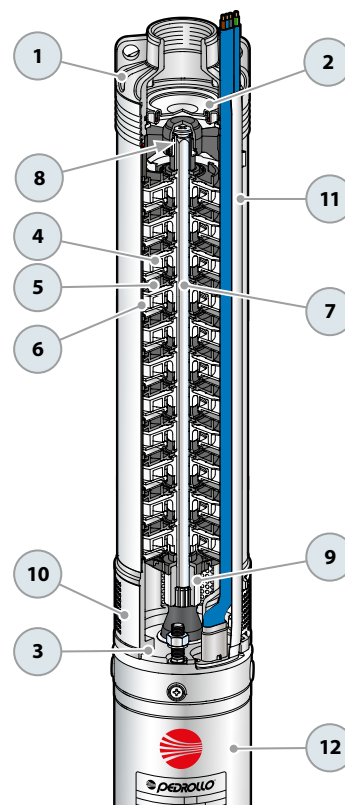
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4SR 4" submersible pumps

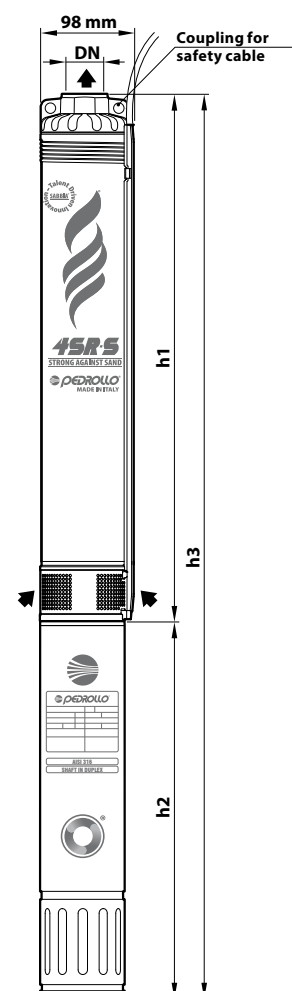
MATERIALS AND COMPONENTS

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



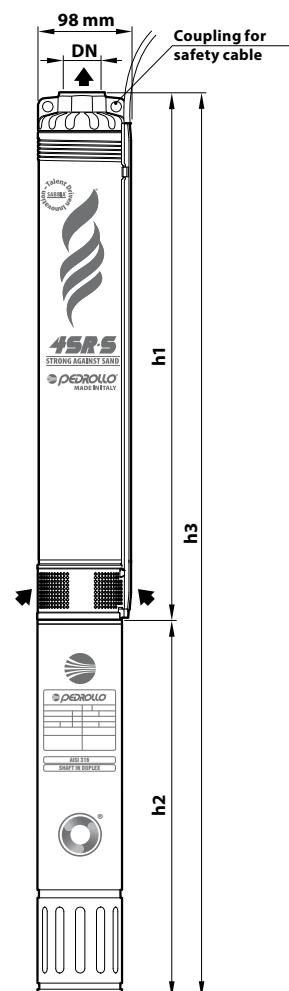
DIMENSIONS AND WEIGHTS (single-phase models)

TYPE Single-phase	DN	DIMENSIONS mm			kg
		h1	h2	h3	
4SRm 1/10 - S - PD	1 1/4"	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		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	2"	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		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



DIMENSIONS AND WEIGHTS (three-phase models)

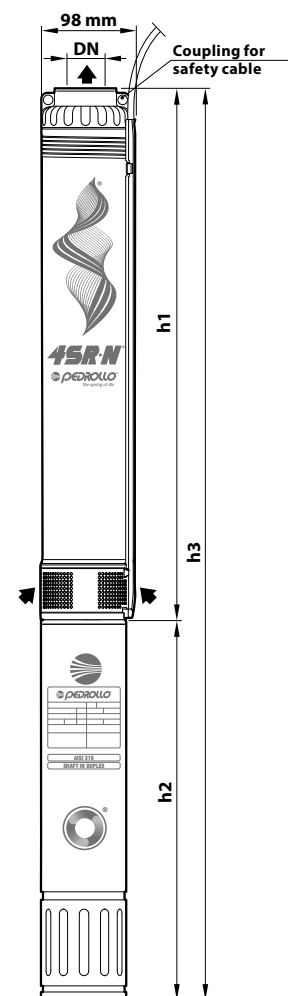
TYPE	DN	DIMENSIONS mm			kg
Three-phase		h1	h2	h3	
4SR 1/10 - S - PD	1 1/4"	362	311	673	10.6
4SR 1/15 - S - PD		488	331	819	13.5
4SR 1/20 - S - PD		588	356	944	14.2
4SR 1/29 - S - PD		767	371	1138	17.8
4SR 1/39 - S - PD		992	396	1388	22.8
4SR 1/50 - S - PD		1284	437	1721	28.1
4SR 1.5/7 - S - PD		303	311	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		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	2"	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		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



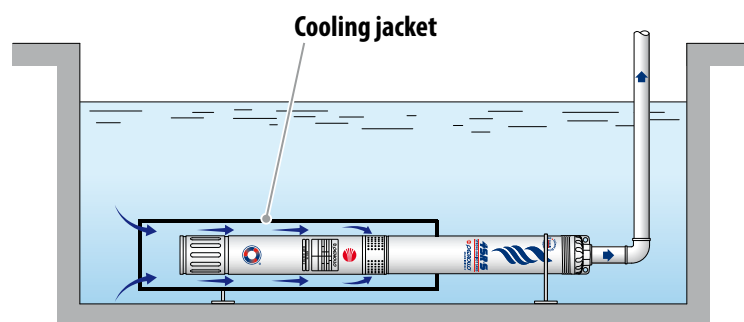
4SR 4" submersible pumps

DIMENSIONS AND WEIGHT

TYPE	DN	DIMENSIONS mm			kg
Single-phase		h1	h2	h3	
4SRm 10/5 - N - PD	2"	430	357	787	12.4
4SRm 10/7 - N - PD		532	397	929	16.7
4SRm 10/9 - N - PD		633	437	1070	18.9
4SRm 10/13- N - PD		837	492	1329	25.6
4SRm 12/5 - N - PD		488	357	845	13.0
4SRm 12/7 - N - PD		613	397	1010	15.5
4SRm 12/9 - N - PD		738	437	1175	18.5
4SRm 12/13- N - PD		989	492	1481	23.5
4SRm 15/6 - N - PD		550	397	947	16.0
4SRm 15/8 - N - PD		676	437	1113	19.5
4SRm 15/12- N - PD		926	492	1418	22.5
Three-phase					
4SR 10/5 - N - PD	2"	430	357	787	12.4
4SR 10/7 - N - PD		532	372	904	14.2
4SR 10/9 - N - PD		633	397	1030	15.9
4SR 10/13 - N - PD		837	437	1274	19.2
4SR 10/18 - N - PD		1092	450	1542	23.0
4SR 10/24 - N - PD		1398	625	2023	32.4
4SR 10/32 - N - PD		1805	725	2530	43.4
4SR 10/43 - N - PD		2366	845	3211	52.0
4SR 12/5 - N - PD		488	357	845	13.0
4SR 12/7 - N - PD		613	372	985	14.5
4SR 12/9 - N - PD		738	397	1135	17.0
4SR 12/13 - N - PD		989	437	1426	20.5
4SR 12/18 - N - PD		1302	450	1752	25.0
4SR 12/24 - N - PD		1677	625	2302	34.5
4SR 12/32 - N - PD		2178	725	2903	46.1
4SR 12/40 - N - PD		2679	845	3524	54.0
4SR 15/6 - N - PD		550	372	922	15.0
4SR 15/8 - N - PD		676	397	1073	17.9
4SR 15/12 - N - PD		926	437	1363	22.4
4SR 15/16 - N - PD		1176	450	1626	25.4
4SR 15/21 - N - PD		1489	625	2114	33.0
4SR 15/29 - N - PD		1990	725	2715	48.2
4SR 15/39 - N - PD		2616	845	3461	58.0



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.

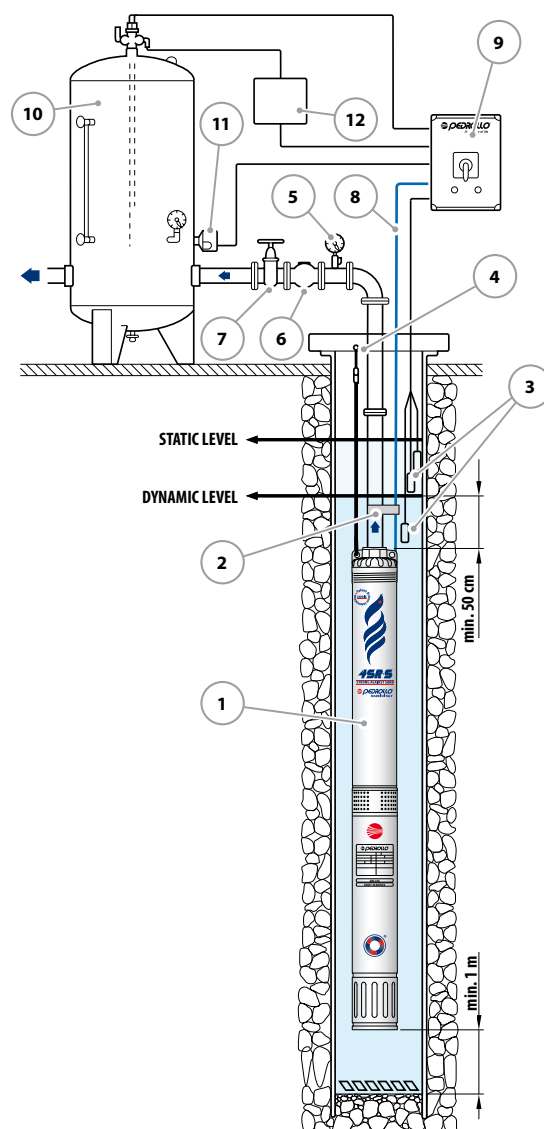
✘ Recommended for power ratings from 3 kW to 7.5 kW



✘ 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