



FLOW

4" Submersible
pumps and motors



Motors are designed with quality material and unique features to assure years of dependable operation.

NEMA Standard flange connector.

Oil-filled motor keeps windings cool, permanently lubricated bearings to provide reliable pump service.

Watertight double-insulated cable entry system prevents capillary action and protects against moisture.

A rubber diaphragm is provided to guard against pressure and volume variations due to thermal expansion of oil inside the motor.

Specification

- Insulation class: F
- Protection class: Ip68.
- Water temperature: up to 35°C
- PH: 6.5 – 8.0.
- Maximum No. of starts per hour: 30.
- Maximum immersion depth: 350 m.
- Fluid-lubricated thrust bearings.
- Lip seal protected by sand guard.
- Extractable supply cable.
- Fitted with watertight connector.
- Power: single-phase: 0.37 Kw ~ 2.2Kw
three-phase: 0.55 Kw ~ 7.5 Kw.
- Power supply:
single-phase 230V ± 10%, 50Hz. 220V ± 10%, 60Hz
three-phase 230V ± 10%, 50Hz. 220V ± 10%, 60Hz
three-phase 400V ± 10%, 50Hz. 380V ± 10%, 60Hz

Direct motor start

- Axial load: 1500 N (0.37 Kw ~ 0.75 Kw);
2500 N (1.1 Kw ~ 2.2 Kw).
4500 N (3 Kw ~ 5.5 Kw).
9000 N (7.5 Kw)
- Special features on request
- Other voltages
- The length of cable is optional
- Motor adapter : AISI 304 SS

A Series Plug-In Type Connection



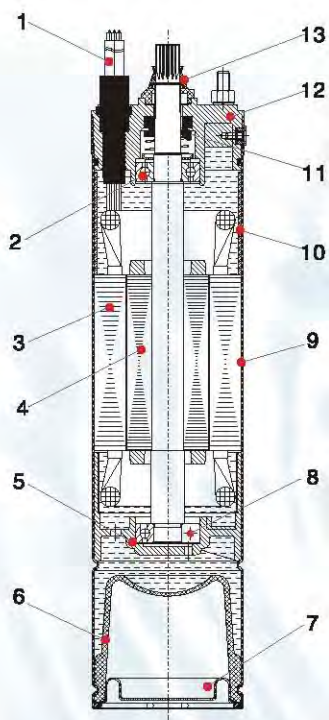
B Series Seal Seal type cable connection



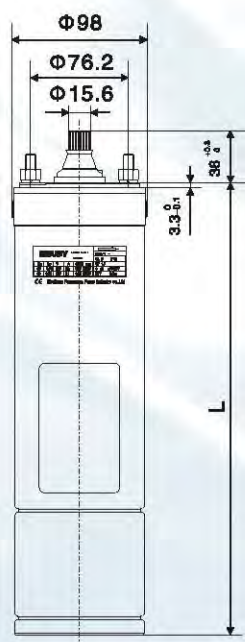
SUBMERSIBLE MOTOR 4SD

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Materials of construction



Item No.	Part name	Material
1	Cable	Chloroprene Cable
2	Bearing	Ball Bearing
3	Stator	
4	Rotor	(Shaft: AISI 420 S.S. or AISI 304 S.S.)
5	Bearing house	Aluminum die casting
6	Pressure Regulator	NBR
7	End Cover	AISI 304 S.S.
8	Bearing	Angular contact bearing
9	Motor Casing	AISI 304 S.S.
10	Guard ring	Plastic PPS
11	Mechanical seal	Carbon VS Ceramics
12	Upper support	Cast - Cu AISI 280 Or Cast iron
13	Sand guard	NBR

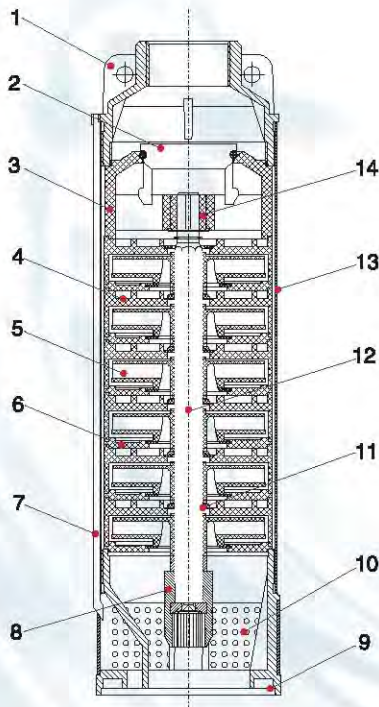


Model		Motor power		50Hz			60Hz		
		Kw	HP	L	N.W	G.W	L	N.W	G.W
				mm	kg	kg	mm	kg	kg
Single phase	4SDM 0.37	0.37	0.55	333	7.5	8.1	328	7.2	7.8
	4SDM 0.55	0.55	0.75	353	8.3	8.9	343	7.8	8.4
	4SDM 0.75	0.75	1	378	9.0	9.7	368	8.5	9.2
	4SDM 1.1	1.1	1.5	442	11.0	11.7	432	10.5	11.2
	4SDM 1.5	1.5	2	472	12.4	13.2	457	11.6	12.3
	4SDM 2.2	2.2	3	517	14.8	15.9	517	14.8	15.9
Three phase	4SD 0.5	0.55	0.75	333	7.3	7.9	328	7.1	7.7
	4SD 0.75	0.75	1	363	9.0	9.6	353	8.5	9.1
	4SD 1.1	1.1	1.5	407	9.7	10.4	407	9.7	10.4
	4SD 1.5	1.5	2	442	11.1	11.8	427	10.2	10.9
	4SD 2.2	2.2	3	502	13.8	14.8	482	12.8	13.8
	4SD 3	3	4	552	16.6	17.7	532	15.5	16.6
	4SD 4	4	5.5	602	19.0	20.2	592	18.5	19.7
	4SD 5.5	5.5	7.5	746	27.3	28.5	726	26.0	27.2
	4SD 7.5	7.5	10	853	31.4	32.8	833	31.2	32.6

Specification

- Capacity: up to 27 m³/h
- Head: up to 330 meters
- Power: 0.37Kw (1/2HP) to 7.5Kw (10HP)
- Power supply:
 - single-phase 220V \pm 10%, 50Hz. 220V \pm 10%, 60Hz
 - three-phase 380V \pm 10%, 50Hz. 380V \pm 10%, 60Hz
 - three-phase 400V \pm 10%, 50Hz. 400V \pm 10%, 60Hz
- Water temperature: up to 35°C
- The solids in the water is less than 0.02%(heavy proportion)
- PH :6.5–8.0
- Maximum immersion depth:350 meters

Materials of construction



Item No.	Part name	Material
1	Discharge head	Cast-Cu AISI280 or AISI304SS
2	Check Valve	ABS
3	Bearing Spider-Upper	Plastic PC
4	Diffuser	Plastic PC
5	Impeller	Plastic POM
6	Diffuser cover	Plastic PC
7	Cable guards	AISI304SS
8	Coupling	AISI420SS
9	Motor Adapter	Cast-Cu AISI280 or AISI304SS
10	Suction screen	AISI304SS
11	Coupling	AISI304SS
12	Shaft	AISI304SS
13	Pump casing	AISI304SS
14	Bearing	Proprietary Engineered Polymer

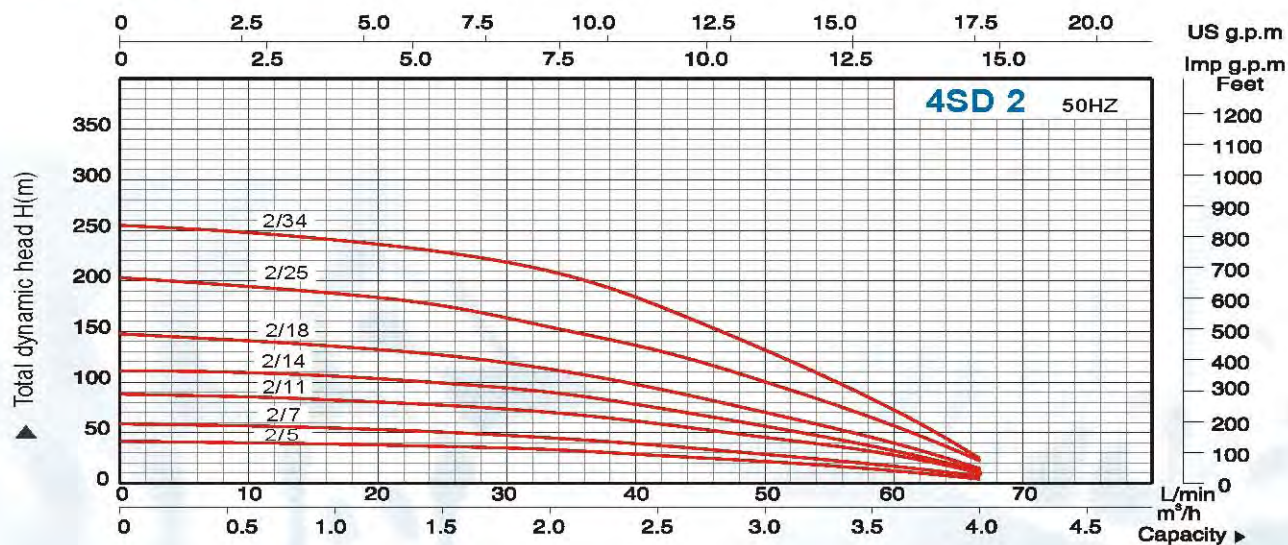
Special features on request

- Other voltages
- The length of cable is optional

4SD 2 DEEP WELL SUBMERSIBLE PUMP

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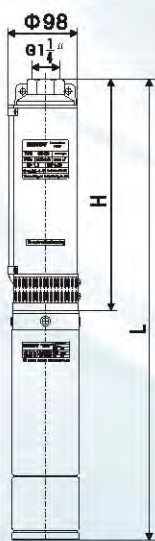
Performance curves



Performance table

Model (50Hz)		Motor Power		Capacity						
Single phase	Three phase	Kw	HP	l/min m³/h	0	17	25	33	50	58
					0	1	1.5	2	3	3.5
4SDM2/5		0.37	0.5	Head (m)	41	39	38	34	24	15
4SDM2/7	4SD2/7	0.55	0.75		55	52	50	45	30	20
4SDM2/11	4SD2/11	0.75	1		88	83	78	70	48	32
4SDM2/14	4SD2/14	1.1	1.5		115	108	103	90	60	37
4SDM2/18	4SD2/18	1.5	2		148	137	128	115	71	44
4SDM2/25	4SD2/25	2.2	3		206	193	175	160	103	65
	4SD2/34	3	4		255	240	225	210	130	85

Dimensions & weights

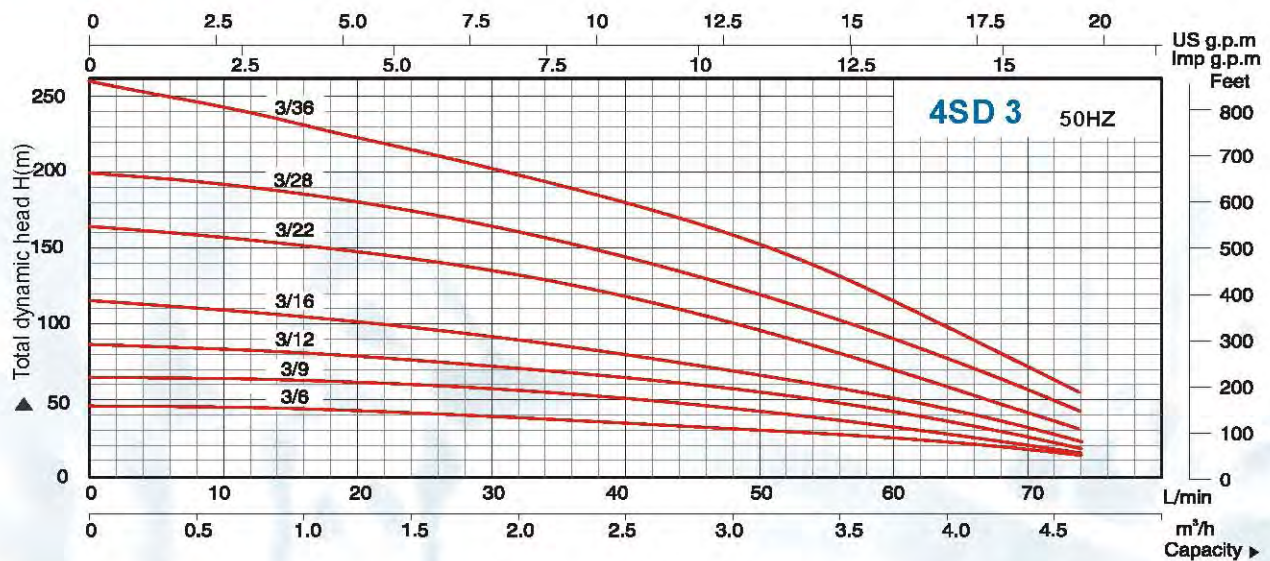


Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SDM2/5	299	612	2.8	9.3	10.0	660 X φ 110
4SDM2/ 7	351	704	3.0	11.3	12.1	750X φ 110
4SDM2/11	456	834	3.4	12.4	13.2	880X φ 110
4SDM2/14	535	977	3.8	14.8	15.8	1025X φ 110
4SDM2/18	641	1113	4.5	16.9	18.0	1160X φ 110
4SDM2/25	825	1142	5.9	20.8	20.1	1390X φ 110
4SD2/7	351	684	3.0	10.3	11.0	730X φ 110
4SD2/11	456	819	3.4	12.4	14.4	865X φ 110
4SD2/14	535	942	3.8	13.7	14.6	990X φ 110
4SD2/18	641	1083	4.5	15.6	16.6	1130X φ 110
4SD2/25	825	1327	5.9	19.7	21.0	1375X φ 110
4SD2/34	1099	1651	9.3	25.9	27.5	1700X φ 110

4SD 3 DEEP WELL SUBMERSIBLE PUMP

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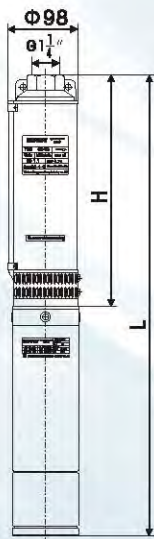
Performance curves



Performance table

Model(50Hz)		Motor Power		Capacity						
Single phase	Three phase			l/min	0	33	42	50	58	67
		Kw	HP	m³/h	0	2	2.5	3	3.5	4
4SDM 3/6	4SD 3/6	0.55	0.75	Head (m)	46	41	38	30	27	21
4SDM 3/9	4SD 3/9	0.75	1		64	54	50	43	36	28
4SDM 3/12	4SD 3/12	1.1	1.5		87	75	71	60	54	43
4SDM 3/16	4SD 3/16	1.5	2		115	101	93	80	73	58
4SDM 3/22	4SD 3/22	2.2	3		156	137	128	110	90	60
	4SD 3/28	3	4		202	170	150	130	110	78
	4SD 3/36	4	5.5		260	210	190	170	140	100

Dimensions & weights

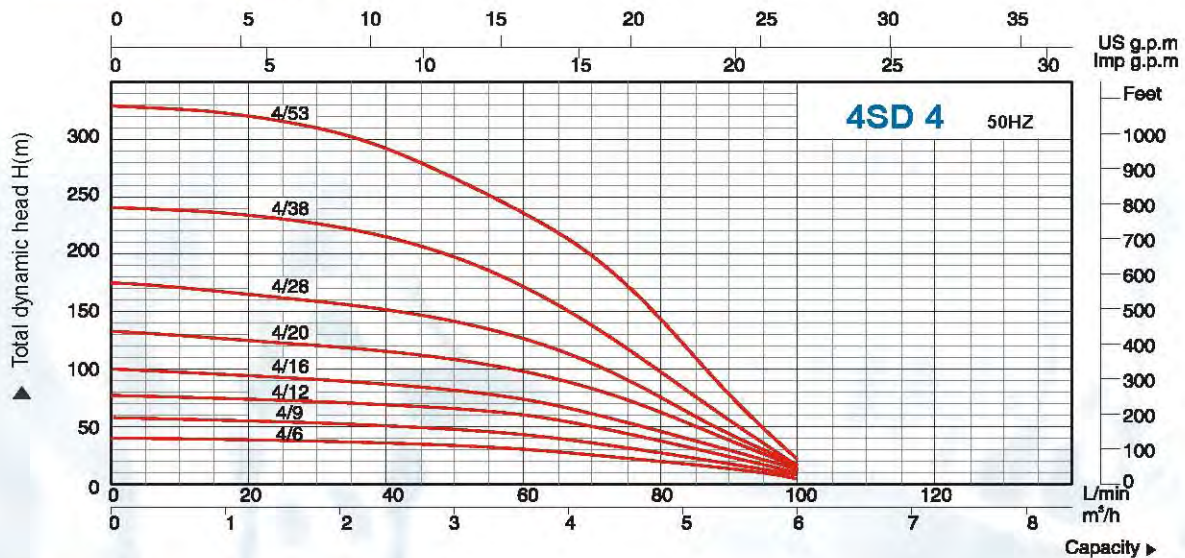


Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SDM3/6	339	692	2.7	11	11.7	740x φ 110
4SDM3/9	426	804	3.3	12.8	13.1	850x φ 110
4SDM3/12	514	956	3.8	14.8	15.7	1000x φ 110
4SDM3/16	630	1102	4.1	16.4	17.5	1150x φ 110
4SDM3/22	804	1321	5.7	20.5	21.7	1365x φ 110
4SD3/6	339	672	7.0	10	10.7	720x φ 110
4SD3/9	426	789	8.4	12.3	13.1	835x φ 110
4SD3/12	514	921	3.8	13.5	14.4	965x φ 110
4SD3/16	630	1072	4.1	15.2	16.2	1120x φ 110
4SD3/22	804	1306	5.7	19.5	20.6	1150x φ 110
4SD3/28	1010	1562	8.0	24.7	26.2	1610x φ 110
4SD3/36	1243	1845	9.8	28.8	30.9	1890x φ 110

4SD 4 DEEP WELL SUBMERSIBLE PUMP

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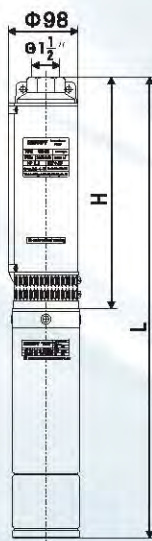
Performance curves



Performance table

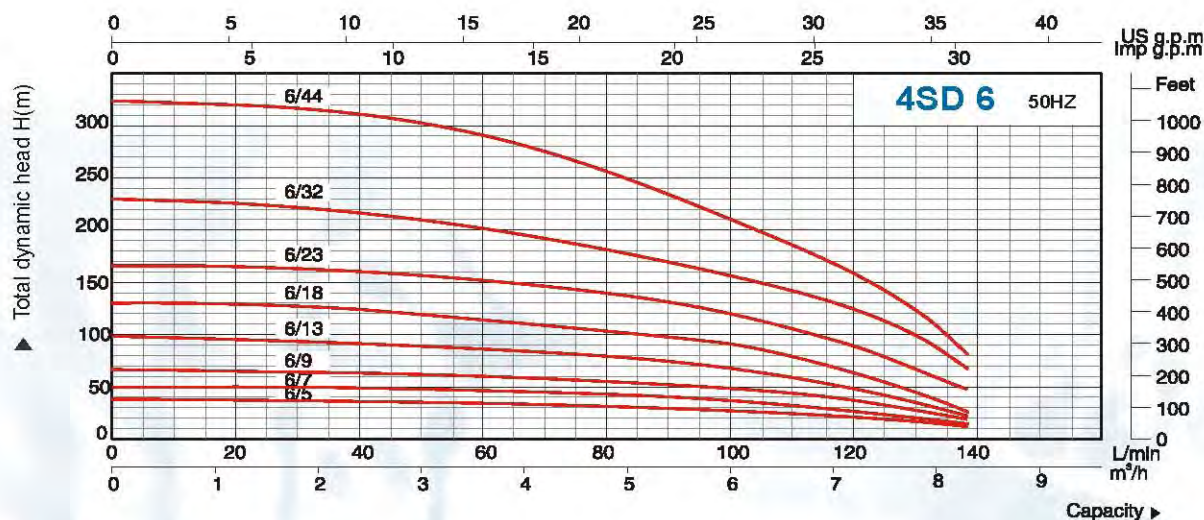
Model(50Hz)		Motor power		Capacity						
Single phase	Three phase			l/min	0	33	50	67	83	92
		Kw	HP	m³/h	0	2	3	4	5	5.5
4SDM4/6	4SD 4/6	0.55	0.75	Head (m)	40	36	33	30	22	11
4SDM4/9	4SD 4/9	0.75	1		58	52	48	39	24	15
4SDM4/12	4SD 4/12	1.1	1.5		77	70	68	55	35	22
4SDM4/16	4SD 4/16	1.5	2		100	90	85	70	43	26
4SDM4/20	4SD 4/20	2.2	3		130	117	108	88	57	30
	4SD 4/28	3	4		175	155	142	120	65	35
	4SD 4/38	4	5.5		240	220	190	150	82	40
	4SD 4/53	5.5	7.5		330	305	265	210	120	53

Dimensions & weights



Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SDM4/6	362	715	3.2	11.5	12.2	765x φ 110
4SDM4/9	460	838	3.8	12.8	13.6	885x φ 110
4SDM4/12	557	999	4.4	15.4	16.7	1045x φ 110
4SDM4/16	687	1159	4.8	17.0	18.1	1205x φ 110
4SDM4/20	817	1334	6.1	20.9	22.2	1385x φ 110
4SD4/6	362	695	3.2	10.5	11.2	740x φ 110
4SD4/9	460	823	3.8	12.8	13.6	870x φ 110
4SD4/12	557	964	4.4	14.1	15.0	1010x φ 110
4SD4/16	687	1129	4.8	15.7	16.8	1175x φ 110
4SD4/20	817	1319	6.1	19.7	21.0	1365x φ 110
4SD4/28	1114	1666	9.2	25.8	27.4	1720x φ 110
4SD4/38	1439	2041	11.8	30.8	33.8	2095x φ 110
4SD4/53	1927	2673	15.2	42.5	45	2720x φ 110

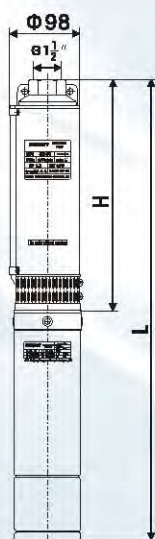
Performance curves



Performance table

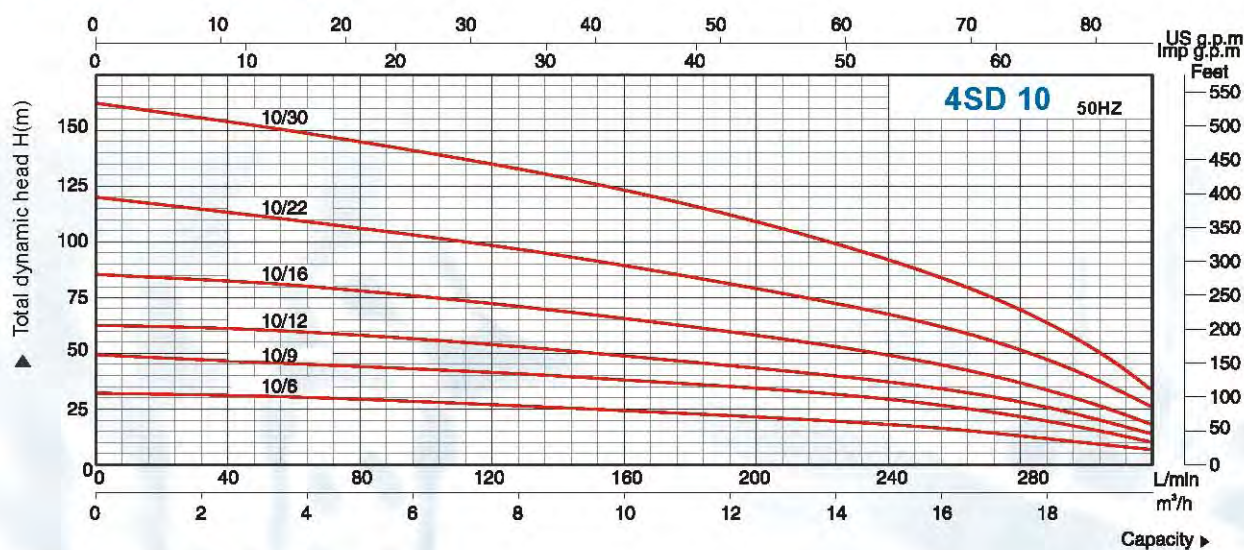
Model(50Hz)		Motor power		Capacity						
Single phase	Three phase			l/min	0	50	67	100	117	133
		Kw	HP	m³/h	0	3	4	6	7	8
4SDM6/5	4SD6/5	0.75	1	Head (m)	37	35	34	27	22	14
4SDM6/7	4SD6/7	1.1	1.5		52	49	46	40	32	18
4SDM6/9	4SD6/9	1.5	2		75	68	58	51	40	27
4SDM6/13	4SD6/13	2.2	3		100	95	90	76	55	41
	4SD6/18	3	4		130	125	120	110	85	48
	4SD6/23	4	5.5		166	160	155	130	95	63
	4SD6/32	5.5	7.5		230	220	200	155	130	90
	4SD6/44	7.5	10		320	300	275	210	170	120

Dimensions & weights



Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SDM6/5	352	730	2.7	11.7	12.4	780x Ø 110
4SDM6/7	427	869	3.1	14.1	15.0	915x Ø 110
4SDM6/9	502	974	3.5	15.9	16.9	1020x Ø 110
4SDM6/13	652	1169	4.5	18.9	20.4	1220x Ø 110
4SD6/5	352	715	2.7	11.8	12.5	765x Ø 110
4SD6/7	427	834	3.1	12.8	13.1	880x Ø 110
4SD6/9	502	944	3.5	14.6	15.5	990x Ø 110
4SD6/13	652	1154	4.5	17.9	19.5	1200x Ø 110
4SD6/18	832	1384	6.9	22.8	24.8	1440x Ø 110
4SD6/23	1019	1621	8.5	23.5	28.0	1675x Ø 110
4SD6/32	1357	2103	11.2	38.5	40.5	2150x Ø 110
4SD6/44	1807	2648	14.6	46	48.5	2695x Ø 110

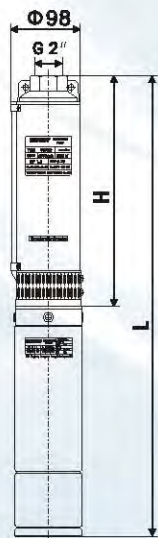
Performance curves



Performance table

Model(50Hz)		Motor power		Capacity						
Single phase	Three phase			l/min	0	83	133	167	234	267
		Kw	HP	m³/h	0	5	8	10	14	16
4SDM10/6	4SDM10/6	1.5	2	Head (m)	32.5	29	27	24	20	17
4SDM10/9	4SDM10/9	2.2	3		48.5	43.5	40	36	30	25.5
	4SD10/12	3	4		65	58	54	48	40	34
	4SD10/16	4	5.5		87	77.5	72	64	53.5	45.5
	4SD10/22	5.5	7.5		120	106	99	88	73	65
	4SD10/30	7.5	10		162	145	133	125	100	85

Dimensions & weights

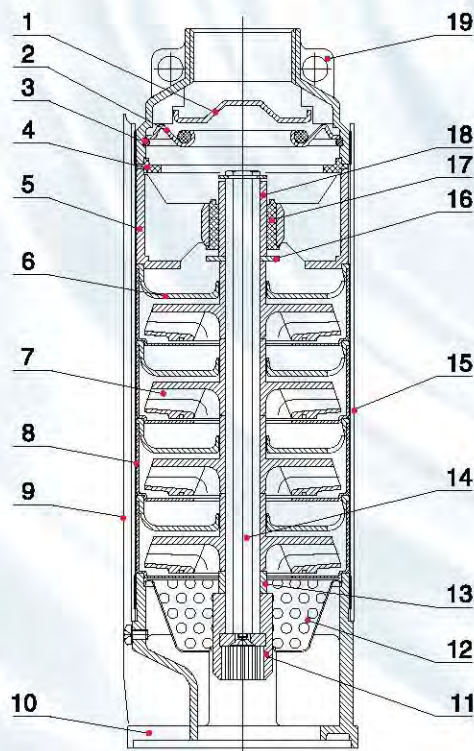


Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SDM10/6	640	1112	4.3	16.7	17.3	1145x φ 110
4SDM10/9	847	1364	5.4	20.2	21.5	1395x φ 110
4SD10/6	640	1082	4.3	15.4	16.4	1110x φ 110
4SD10/9	847	1349	5.4	19.2	20.5	1380x φ 110
4SD10/12	1093	1645	8.3	24.9	26.4	1680x φ 110
4SD10/16	1370	1972	10.4	29.4	31.2	2005x φ 110
4SD10/22	1828	2574	14.4	41.7	44.1	2620x φ 110
4SD10/30	2422	3275	17.8	49.2	52.2	3335x φ 110

Specification

- Capacity: up to 24 m³/h
- Head: up to 330 meters
- Power: 0.37Kw (1/2HP) to 7.5Kw (10HP)
- Power supply:
 - single-phase 230V ± 10%, 50Hz. 220V ± 10%, 60Hz
 - three-phase 230V ± 10%, 50Hz. 220V ± 10%, 60Hz
 - three-phase 400V ± 10%, 50Hz. 380V ± 10%, 60Hz
- Water temperature: up to 35°C
- The solids in the water is less than 0.02% (heavy proportion)
- PH : 6.5–8.0
- Maximum immersion depth: 350 meters

Materials of construction



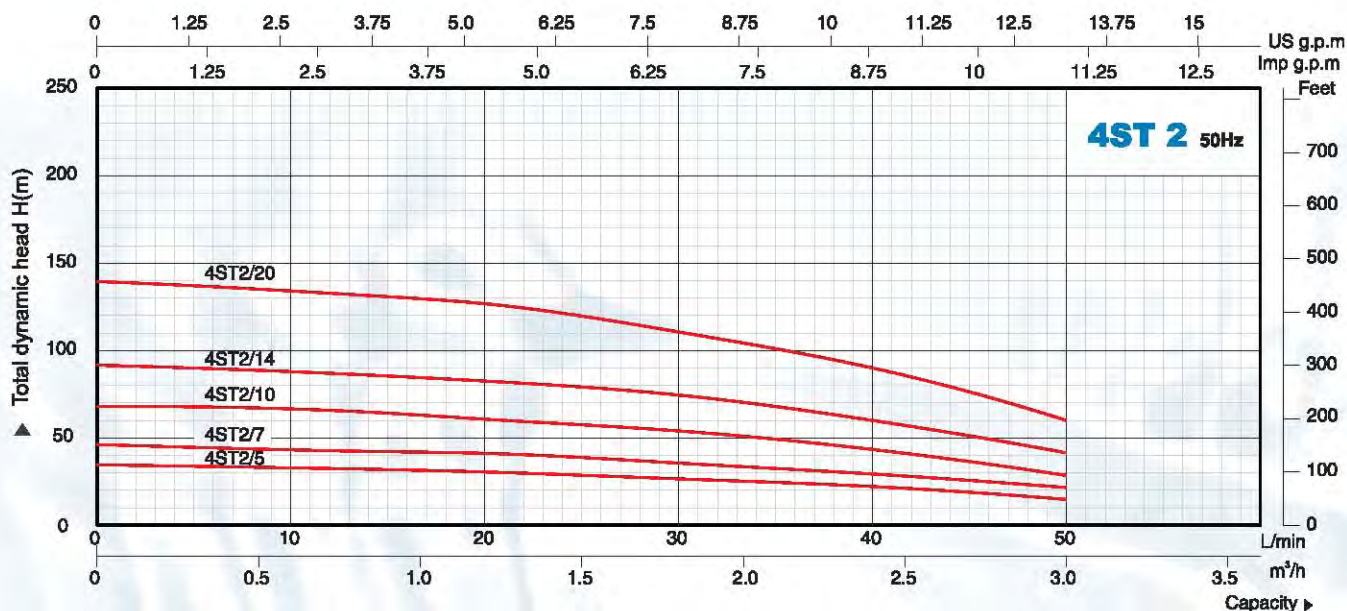
The fit dimension between pump and motor is complied with NEMA standard

Item No.	Part name	Material
1	Check Valve	AISI304SS
2	Valve seat	AISI304SS
3	Check Valve Cone	AISI304SS
4	Spider-upper ring	Glass Filled PC
5	Bearing Spider	Glass Filled PC
6	Diffuser	Glass Filled PC
7	Impeller	Glass Filled PPO
8	Bowl	AISI304SS
9	Cable guards	AISI304SS
10	Motor Adapter	AISI304SS
11	Coupling spline	AISI304SS
12	Suction screen	AISI304SS
13	Sleeve	Glass Filled PPO
14	Shaft	AISI420SS
15	Pump Casing	AISI304SS
16	Washer	AISI304SS
17	Bearing	PU
18	Shaft Sleeve	AISI304SS
19	Discharge head	AISI304SS

Special features on request

- Other voltages
- The length of cable is optional

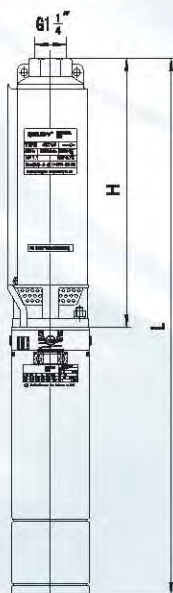
Performance curves



Performance table

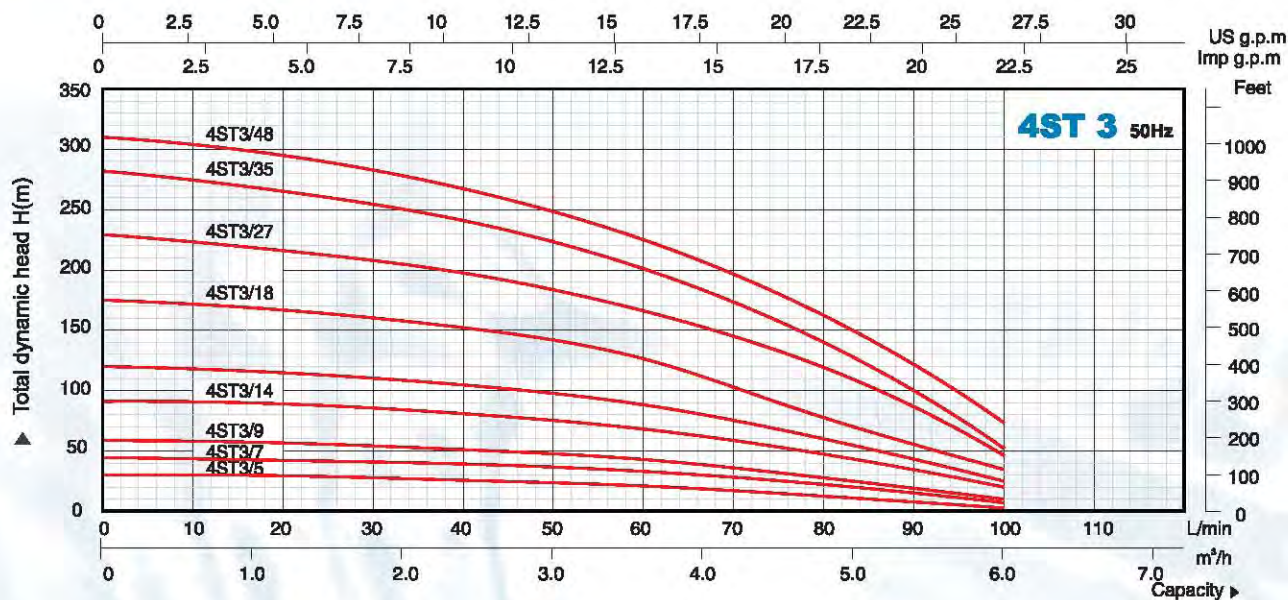
Model(50Hz)		Motor power		Capacity									
Single phase	Three phase			l/min	0	15	20	25	30	35	40	45	50
		Kw	HP	m³/h	0	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0
4STM2/5	4ST2/5	0.37	0.5	Head (m)	34	32	31	29	27	25	23	19	16
4STM2/7	4ST2/7	0.37	0.5		46	43	42	39	36	33	29	26	22
4STM2/10	4ST2/10	0.55	0.75		67	64	61	58	54	49	43	36	28
4STM2/14	4ST2/14	0.75	1.0		92	86	83	79	74	67	60	52	42
4STM2/20	4ST2/20	1.1	1.5		139	131	127	120	111	101	90	75	60

Dimensions & weights



Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM2/5	236	569	2.5	10.0	10.6	614x φ 110
4STM2/7	271	604	2.8	10.3	11.0	650x φ 110
4STM2/10	324	677	3.4	11.7	12.5	722x φ 110
4STM2/14	394	772	4.0	13.0	13.8	817x φ 110
4STM2/20	499	941	5.0	16.0	17.0	986x φ 110
4ST2/5	236	554	2.5	9.0	9.6	600x φ 110
4ST2/7	271	589	2.8	9.3	9.9	635x φ 110
4ST2/10	324	657	3.4	10.7	11.5	702x φ 110
4ST2/14	394	757	4.0	13.0	13.8	802x φ 110
4ST2/20	499	906	5.0	14.7	15.6	950x φ 110

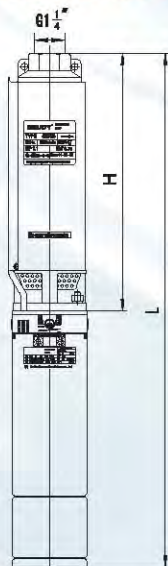
Performance curves



Performance table

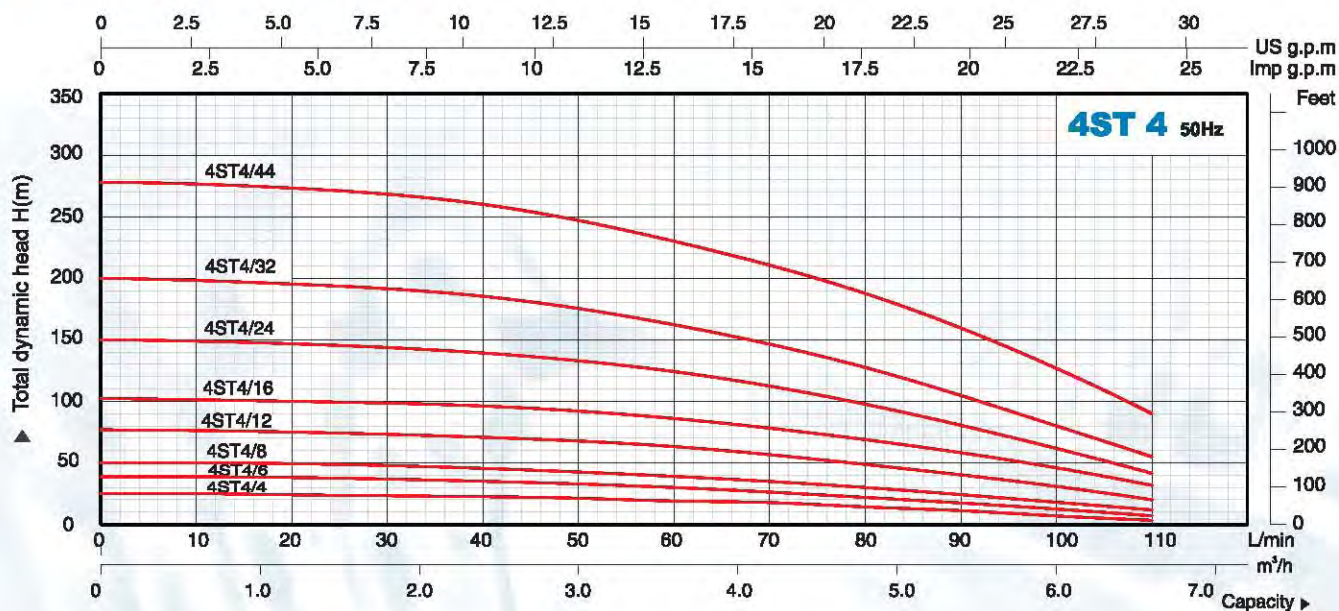
Model(50Hz)		Motor power		Capacity													
Single phase	Three phase			l/min	0	25	30	35	40	45	50	60	70	80	90	100	
		Kw	HP	m³/h	0	1.5	1.8	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0	
4STM3/5	4ST3/5	0.37	0.5	Head (m)	33	29	28	27	26	25	24	21	18	13	8	3	
4STM3/7	4ST3/7	0.55	0.75		46	43	42	41	39	38	36	33	28	22	15	7	
4STM3/9	4ST3/9	0.75	1.0		59	55	54	52	51	49	47	43	37	28	20	10	
4STM3/14	4ST3/14	1.1	1.5		93	87	86	83	81	79	76	68	58	47	33	20	
4STM3/18	4ST3/18	1.5	2.0		120	113	111	108	105	102	98	88	75	60	42	25	
4STM3/27	4ST3/27	2.2	3.0		175	164	161	157	152	147	141	127	109	87	61	35	
	4ST3/35	3.0	4.0		228	212	208	203	197	191	184	166	145	119	85	46	
	4ST3/48	4.0	5.5		309	289	283	276	267	258	248	225	197	162	120	73	

Dimensions & weights



Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM3/5	257	590	2.8	10.3	10.9	635x φ 110
4STM3/7	301	654	3.1	11.4	12.1	700x φ 110
4STM3/9	344	722	3.4	12.4	13.2	767x φ 110
4STM3/14	452	894	4.2	15.2	16.1	940x φ 110
4STM3/18	538	1010	4.9	17.3	18.3	1055x φ 110
4STM3/27	767	1284	6.4	21.2	22.8	1330x φ 110
4ST3/5	257	575	2.8	9.3	9.6	620x φ 110
4ST3/7	301	634	3.1	10.4	11.1	680x φ 110
4ST3/9	344	707	3.4	12.4	13.1	752x φ 110
4ST3/14	452	859	4.2	13.9	14.8	904x φ 110
4ST3/18	538	980	4.9	16.0	17.0	1025x φ 110
4ST3/27	767	1269	6.4	20.2	21.7	1314x φ 110
4ST3/35	934	1486	8.2	24.8	26.5	1531x φ 110
4ST3/48	1253	1855	10.3	29.3	31.3	1900x φ 110

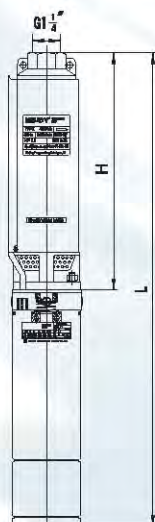
Performance curves



Performance table

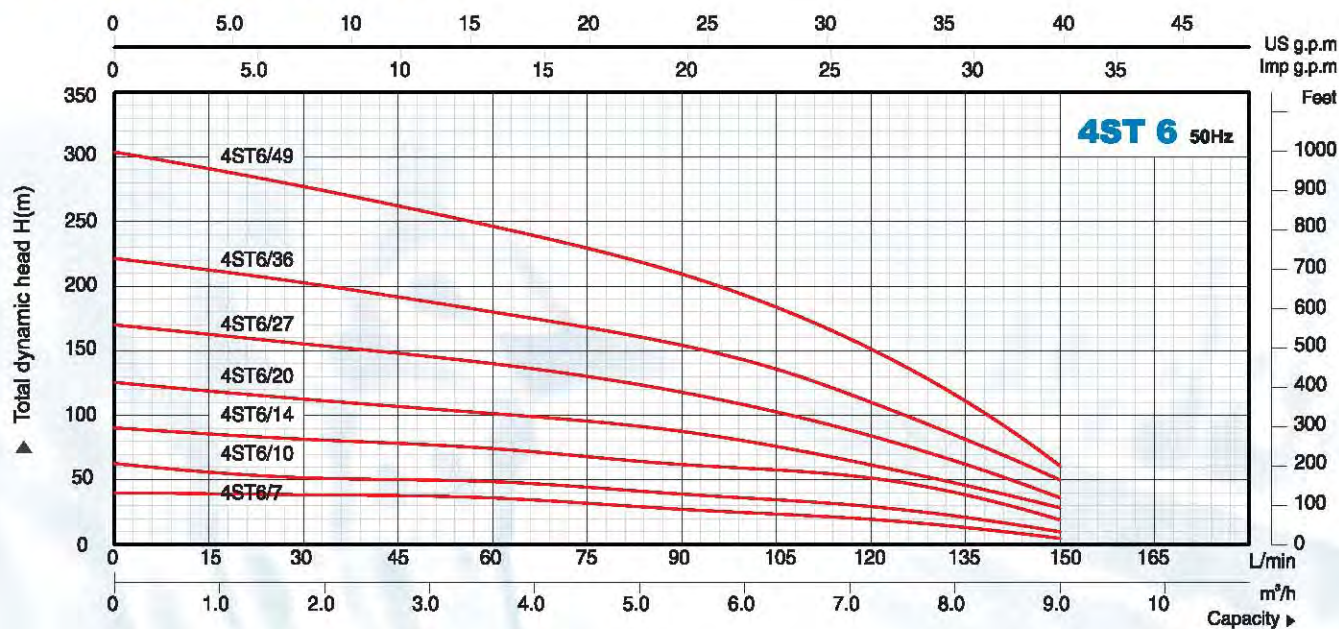
Model(50Hz)		Motor power		Capacity										
Single phase	Three phase			l/min	0	35	40	45	50	60	70	80	90	100
		Kw	HP	m³/h	0	2.1	2.4	2.7	3.0	3.6	4.2	4.8	5.4	6.0
4STM4/4	4ST4/4	0.37	0.5	Head (m)	26	23	22	22	21	19	17	14	11	7
4STM4/6	4ST4/6	0.55	0.75		38	36	35	33	32	30	26	22	18	12
4STM4/8	4ST4/8	0.75	1.0		51	47	46	44	43	39	35	30	24	18
4STM4/12	4ST4/12	1.1	1.5		77	72	71	69	68	63	57	49	41	31
4STM4/16	4ST4/16	1.5	2.0		102	98	96	94	92	86	77	68	57	46
4STM4/24	4ST4/24	2.2	3.0		151	142	139	136	132	122	111	97	80	62
	4ST4/32	3.0	4.0		203	188	185	180	175	162	146	127	105	80
	4ST4/44	4.0	5.5		278	265	260	254	247	230	210	187	159	127

Dimensions & weights



Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM4/4	247	580	2.5	10.0	10.7	625x φ 110
4STM4/6	296	649	3.0	11.3	12.1	695x φ 110
4STM4/8	345	723	3.4	12.4	13.2	768x φ 110
4STM4/12	433	875	4.2	15.2	16.1	920x φ 110
4STM4/16	542	1014	5.2	17.6	18.6	1060x φ 110
4STM4/24	777	1294	6.8	21.6	23.2	1340x φ 110
4ST4/4	247	565	2.5	9.0	9.6	610x φ 110
4ST4/6	296	629	3.0	10.3	11.1	675x φ 110
4ST4/8	345	708	3.4	12.4	13.2	753x φ 110
4ST4/12	433	840	4.2	13.9	14.8	885x φ 110
4ST4/16	542	984	5.2	16.3	17.3	1030x φ 110
4ST4/24	777	1279	6.8	20.6	22.3	1324x φ 110
4ST4/32	965	1517	9.0	25.6	27.3	1560x φ 110
4ST4/44	1296	1898	11.6	30.6	32.5	1943x φ 110

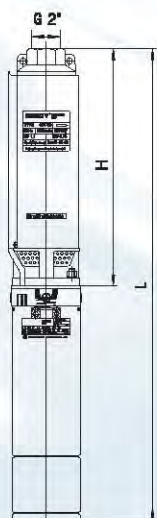
Performance curves



Performance table:

Model(50Hz)		Motor power		Capacity									
Single phase	Three phase			l/min	0	50	60	70	80	90	100	120	140
		Kw	HP	m³/h	0	3.0	3.6	4.2	4.8	5.4	6.0	7.2	8.4
4STM6/7	4ST6/7	0.75	1.0	Head (m)	42	36	34	32	30	28	25	19	11
4STM6/10	4ST6/10	1.1	1.5		62	53	51	48	45	41	38	29	18
4STM6/14	4ST6/14	1.5	2.0		90	77	74	71	68	63	59	46	28
4STM6/20	4ST6/20	2.2	3.0		125	107	102	97	92	86	80	62	40
	4ST6/27	3.0	4.0		169	145	139	131	123	115	107	84	55
	4ST6/36	4.0	5.5		221	190	181	173	164	154	143	112	72
	4ST6/49	5.5	7.5		302	257	246	234	222	209	193	151	96

Dimensions & weights



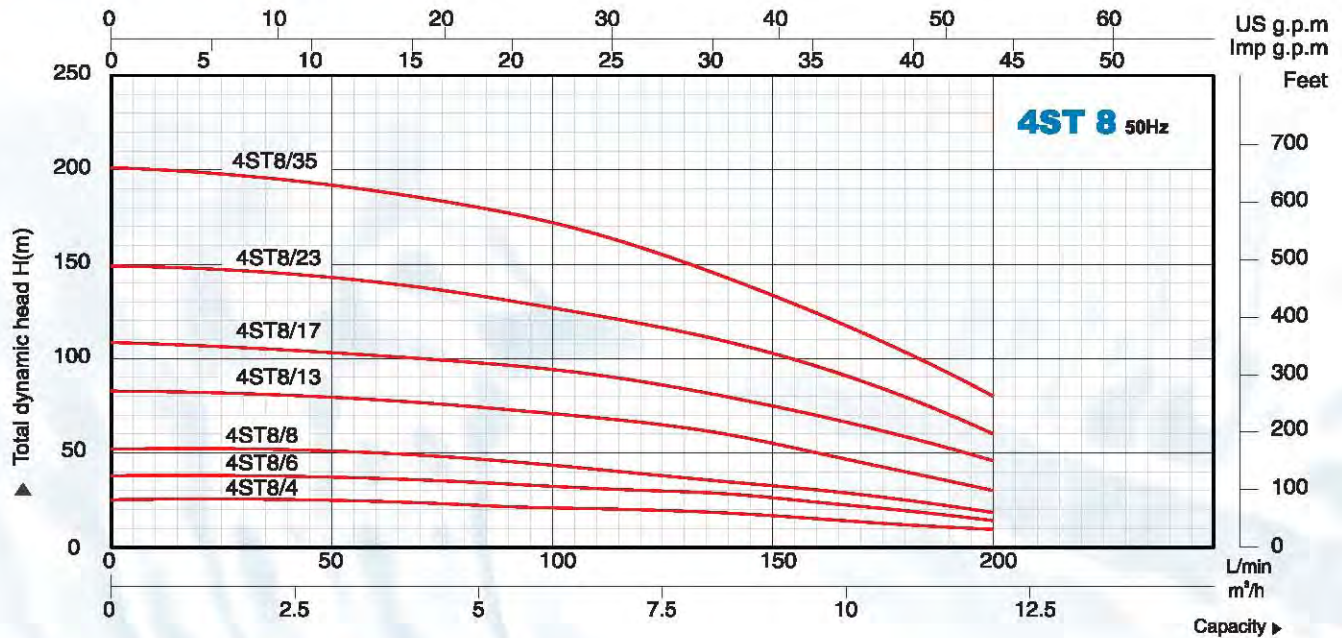
Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM6/7	390	768	3.7	12.7	13.5	815x φ 110
4STM6/10	483	925	4.6	15.6	16.5	970x φ 110
4STM6/14	607	1079	5.7	18.1	19.1	1124x φ 110
4STM6/20	831	1348	7.5	22.3	24.0	1393x φ 110
4ST6/7	390	753	3.7	12.7	13.5	798x φ 110
4ST6/10	483	890	4.6	14.3	15.2	935x φ 110
4ST6/14	607	1049	5.7	16.8	17.8	1095x φ 110
4ST6/20	831	1333	7.5	21.3	23.0	1378x φ 110
4ST6/27	1048	1600	9.6	26.2	27.9	1645x φ 110
4ST6/36	1318	1920	12.2	31.2	33.2	1965x φ 110
4ST6/49	1802	2548	15.9	43.2	45.6	2593x φ 110

4ST 8

DEEP WELL SUBMERSIBLE PUMP

FLOW

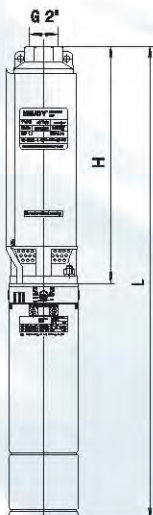
Performance curves



Performance table

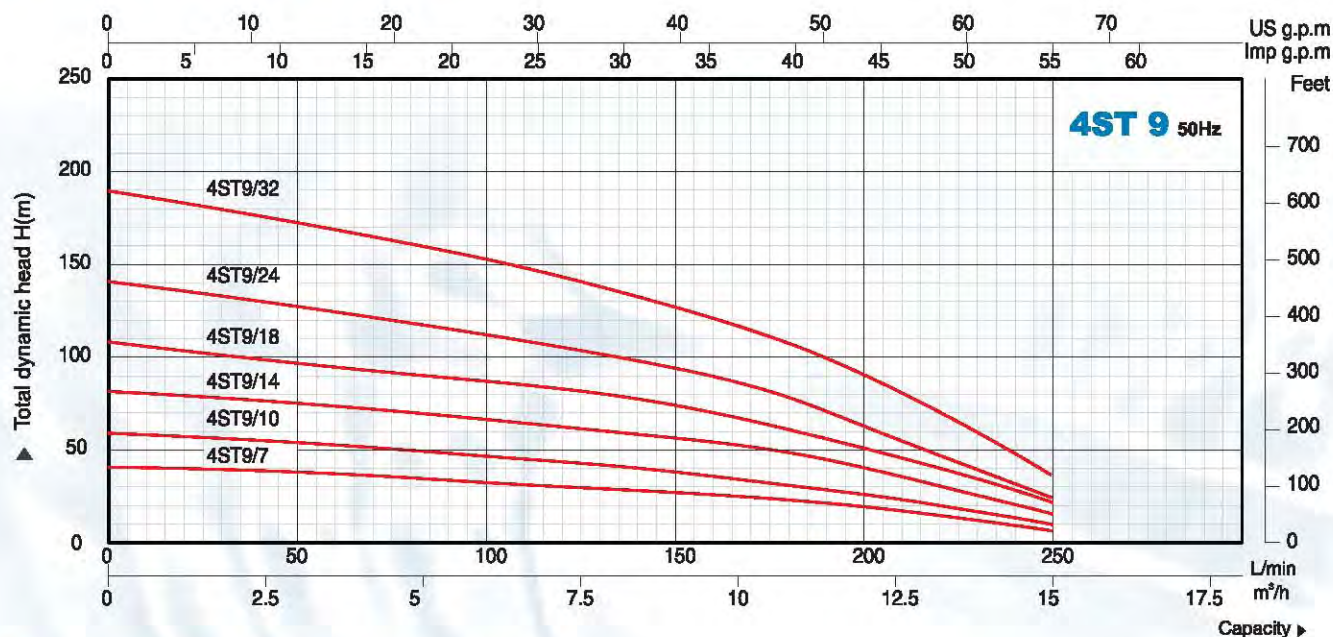
Model(50Hz)		Motor power		Capacity									
Single phase	Three phase			l/min	0	80	90	100	120	140	160	180	200
		Kw	HP	m³/h	0	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12
4STM8/4	4ST8/4	0.75	1.0	Head (m)	26	23	22	21	20	18	16	12	9
4STM8/6	4ST8/6	1.1	1.5		38	35	34	33	31	28	24	19	14
4STM8/8	4ST8/8	1.5	2.0		52	47	45	44	41	37	31	25	18
4STM8/13	4ST8/13	2.2	3.0		82	75	73	71	66	59	50	40	30
	4ST8/17	3.0	4.0		108	98	96	94	87	79	70	58	46
	4ST8/23	4.0	5.5		148	134	131	127	118	108	95	79	60
	4ST8/32	5.5	7.5		202	182	178	172	160	143	125	105	80

Dimensions & weights



Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM8/4	294	672	2.8	11.8	12.6	717x φ 110
4STM8/6	356	798	3.4	14.4	15.2	845x φ 110
4STM8/8	418	890	4.0	16.4	17.3	935x φ 110
4STM8/13	573	1090	5.5	20.3	21.3	1135x φ 110
4ST8/4	294	657	2.8	11.8	12.6	702x φ 110
4ST8/6	356	763	3.4	13.1	13.9	808x φ 110
4ST8/8	418	860	4.0	15.1	16.0	905x φ 110
4ST8/13	573	1075	5.5	19.3	20.3	1120x φ 110
4ST8/17	697	1249	6.6	23.2	24.7	1294x φ 110
4ST8/23	921	1523	8.4	27.4	29.1	1568x φ 110
4ST8/32	1238	1984	11.0	38.3	40.5	2029x φ 110

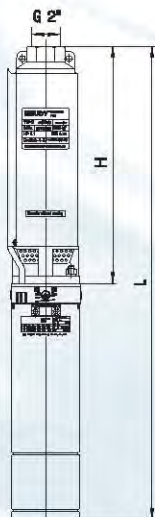
Performance curves



Performance table

Model(50Hz)		Motor power		Capacity											
Single phase	Three phase			l/min	0	80	90	100	120	140	160	180	200	220	240
		Kw	HP	m³/h	0	4.8	5.4	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4
4STM9/7	4ST9/7	1.1	1.5	Head (m)	41	35	34	33	32	29	26	23	18	14	8
4STM9/10	4ST9/10	1.5	2.0		58	49	48	47	44	41	37	32	27	20	13
4STM9/14	4ST9/14	2.2	3.0		83	71	69	67	63	58	54	48	40	31	20
	4ST9/18	3.0	4.0		107	92	90	87	83	77	70	62	52	39	26
	4ST9/24	4.0	5.5		141	118	116	113	106	97	88	77	63	49	33
	4ST9/32	5.5	7.5		189	162	157	153	144	134	122	107	90	70	47

Dimensions & weights



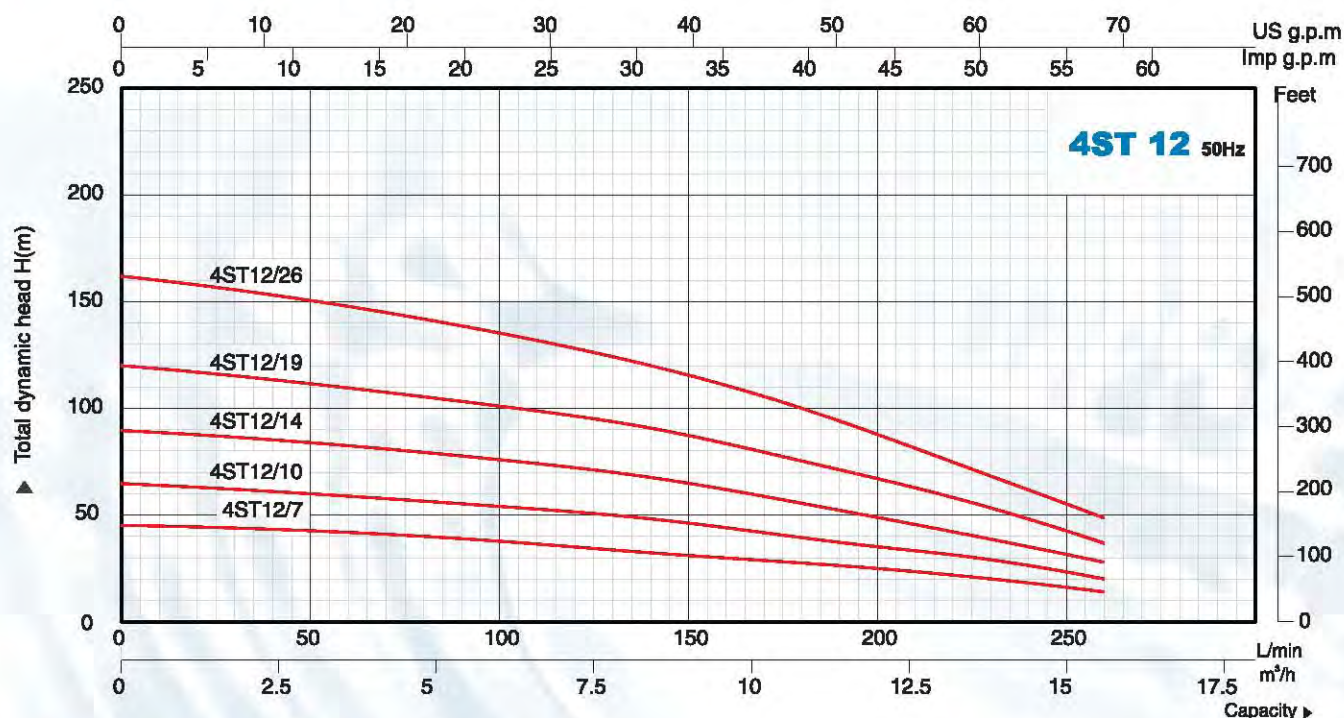
Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM9/7	537	979	5.3	16.3	17.3	1024x ϕ 110
4STM9/10	693	1165	6.7	19.1	20.3	1210x ϕ 110
4STM9/14	901	1418	8.5	23.3	25.0	1463x ϕ 110
4ST9/7	537	944	5.3	15.0	16.0	989x ϕ 110
4ST9/10	693	1135	6.7	17.8	19.0	1180x ϕ 110
4ST9/14	901	1403	8.5	22.3	24.0	1448x ϕ 110
4ST9/18	1147	1699	10.4	27.0	28.8	1745x ϕ 110
4ST9/24	1449	2051	13.2	32.2	34.5	2096x ϕ 110
4ST9/32	1866	2612	17.0	44.3	46.8	2657x ϕ 110

4ST 12

DEEP WELL SUBMERSIBLE PUMP

FLOW

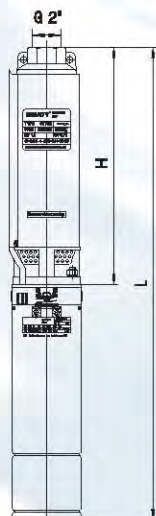
Performance curves



Performance table

Model(50Hz)		Motor power		Capacity										
Single phase	Three phase			l/min	0	100	120	140	160	180	200	220	240	260
		Kw	HP	m³/h	0	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6
4STM12/7	4ST12/7	1.5	2.0	Head (m)	45	37	36	33	31	28	25	22	18	14
4STM12/10	4ST12/10	2.2	3.0		64	54	52	48	44	41	36	32	26	20
	4ST12/14	3.0	4.0		89	76	72	67	62	56	49	43	35	28
	4ST12/19	4.0	5.5		120	102	97	91	89	76	68	58	48	37
	4ST12/26	5.5	7.5		163	136	129	120	111	100	87	75	61	48

Dimensions & weights



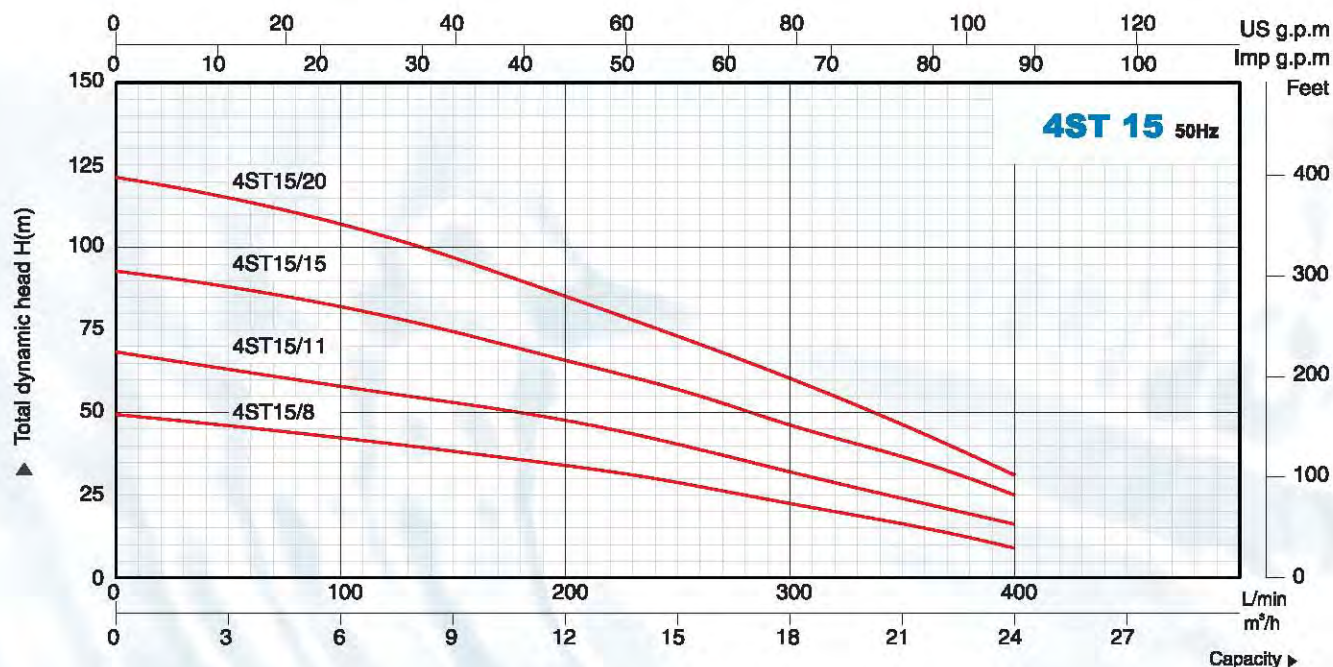
Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM12/7	534	1006	5.3	17.7	18.7	1050x φ 110
4STM12/10	690	1207	6.7	21.5	23.0	1250x φ 110
4ST12/7	534	976	5.3	16.4	17.4	1020x φ 110
4ST12/10	690	1192	6.7	20.5	21.9	1237x φ 110
4ST12/14	989	1541	8.6	25.2	26.8	1586x φ 110
4ST12/19	1195	1797	11.0	30.0	32.0	1840x φ 110
4ST12/26	1559	2305	14.3	41.6	44.0	2350x φ 110

4ST 15

DEEP WELL SUBMERSIBLE PUMP

FLOW

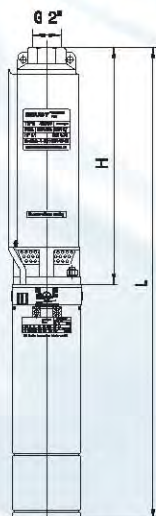
Performance curves



Performance table:

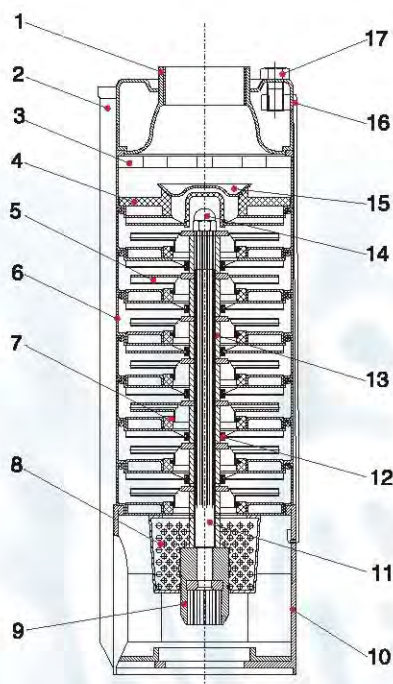
Model(50Hz)		Motor power		Capacity										
Single phase	Three phase			l/min	0	160	200	220	240	260	300	320	360	400
		Kw	HP	m³/h	0	9.6	12	13.2	14.4	15.6	18	19.2	21.6	24
4STM15/8	4ST15/8	2.2	3.0	Head (m)	49	38	34	32	30	28	23	20	15	9
	4ST15/11	3.0	4.0		67	53	48	45	42	39	33	30	23	16
	4ST15/15	4.0	5.5		93	73	66	62	59	55	47	43	34	25
	4ST15/20	5.5	7.5		122	95	86	81	76	72	61	56	44	32

Dimensions & weights



Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4STM15/8	676	1193	6.3	21.1	22.7	1240x ϕ 110
4ST15/8	676	1178	6.3	20.1	21.7	1223x ϕ 110
4ST15/11	880	1432	8.1	24.7	26.4	1477x ϕ 110
4ST15/15	1149	1751	10.5	29.5	31.4	1795x ϕ 110
4ST15/20	1489	2235	13.5	40.8	43.1	2280x ϕ 110

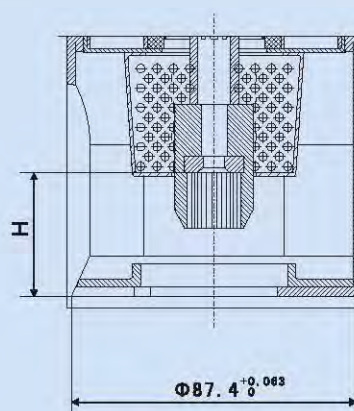
Materials of construction



Item No.	Part name	Material
1	Discharge head	AISI304SS
2	Cable guards	AISI304SS
3	Shield ring	AISI301SS
4	Spider-Uppering	NBR
5	Impeller	AISI304SS
6	Diffuser & Casing	AISI304SS
7	O-ring	NBR
8	Suction screen	AISI304SS
9	Coupling spline	AISI304SS
10	Motor Adapter	AISI304SS
11	Shaft	AISI304SS
12	Axial bearing	NBR
13	Bearing spacer	AISI304SS
14	Nut	AISI304SS
15	Check Valve	AISI304SS
16	Strap	AISI304SS
17	Bolt	AISI304SS

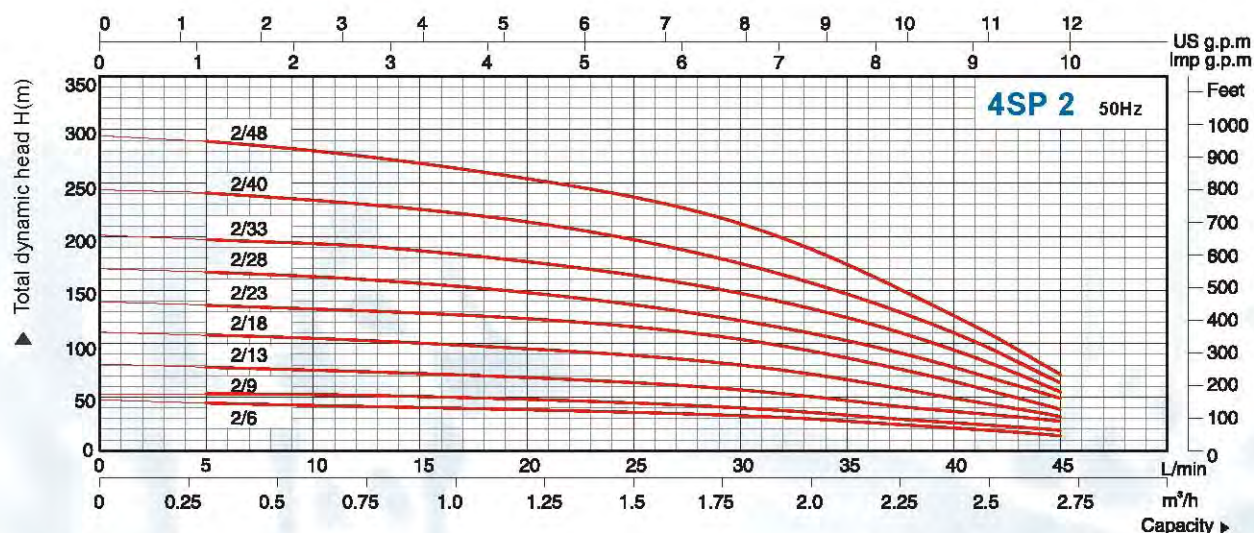
Special features on request

- Other voltages



- Shaft in bottom position= Max $37.5 \frac{0}{-1}$
- Shaft in top position= Max $38.4 \frac{+1}{0}$

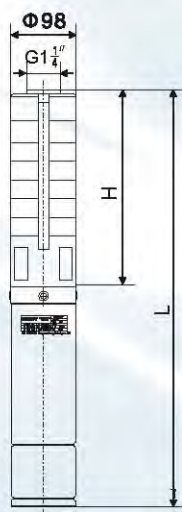
Performance curves



Performance table

Model(50HZ)		Motor power		Capacity											
Single phase	Three phase			l/min	0	5	10	15	20	25	30	35	40	45	
		Kw	HP	m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	
4SPM2/6		0.37	0.5	Head (m)	48	37	35	32	30	28	26	23	17	10	
4SPM2/9		0.37	0.5		55	54	53	51	48	45	40	33	25	14	
4SPM2/13	4SP2/13	0.55	0.75		80	78	76	73	69	64	57	48	36	21	
4SPM2/18	4SP2/18	0.75	1		110	108	105	101	96	89	80	67	50	29	
4SPM2/23	4SP2/23	1.1	1.5		140	139	135	129	122	114	102	85	64	37	
4SPM2/28	4SP2/28	1.5	2		171	168	163	158	149	139	124	103	78	45	
4SPM2/33	4SP2/33	1.5	2		202	199	193	186	176	163	146	122	92	53	
4SPM2/40	4SP2/40	2.2	3		245	241	234	225	213	198	177	148	112	65	
4SPM2/48	4SP2/48	2.2	3		294	289	281	270	255	237	212	177	134	78	

Dimensions & weights

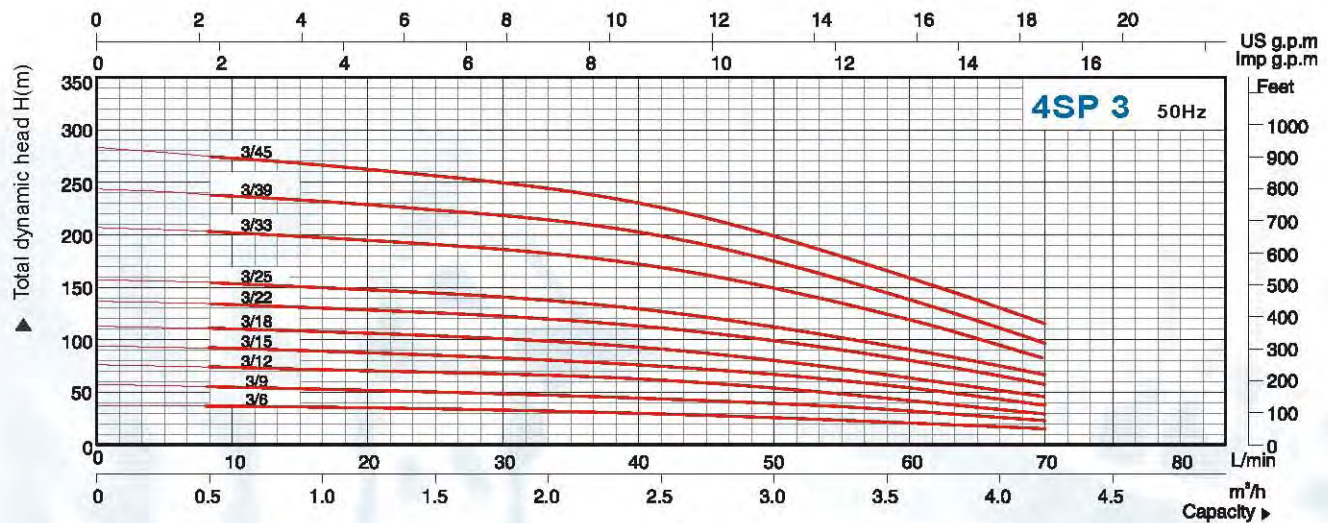


Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SPM2/6	280	613	2.4	9.9	10.5	660x φ 110
4SPM2/9	343	676	3	10.5	11.2	720x φ 110
4SPM2/13	427	780	4	12.3	13.1	825x φ 110
4SPM2/18	532	910	5.1	14.1	15.0	955x φ 110
4SPM2/23	637	1079	5.8	16.8	17.3	1125x φ 110
4SPM2/28	742	1214	6.9	19.3	20.5	1260x φ 110
4SPM2/33	847	1319	7.9	20.3	21.6	1365x φ 110
4SPM2/40	1029	1546	9.2	24.0	25.6	1590x φ 110
4SPM2/48	1197	1714	10.8	25.6	27.2	1760x φ 110
4SP2/13	427	760	4	11.3	12.1	805x φ 110
4SP2/18	532	895	5.1	14.1	15.0	940x φ 110
4SP2/23	637	1044	5.8	15.5	16.5	1090x φ 110
4SP2/28	742	1184	6.9	18.0	19.1	1230x φ 110
4SP2/33	847	1289	7.9	19.0	19.9	1000x φ 110
4SP2/40	994	1496	9.2	24.0	25.4	1540x φ 110
4SP2/48	1162	1664	10.8	24.6	26.2	1710x φ 110

4SP 3 DEEP WELL SUBMERSIBLE PUMP

FLOW

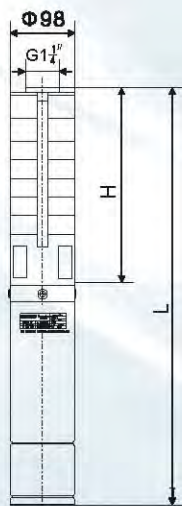
Performance curves



Performance table

Model(50Hz)		Motor power		Capacity								
Single phase	Three phase			l/min m³/h	0	10	20	30	40	50	60	70
4SPM 3/6		0.37	0.5	Head (m)	38	36	35	33	31	28	23	16
4SPM 3/9	4SP 3/9	0.55	0.75		57	54	52	50	46	41	34	24
4SPM 3/12	4SP 3/12	0.75	1		76	73	70	67	62	55	46	33
4SPM 3/15	4SP 3/15	1.1	1.5		95	91	87	83	78	69	57	41
4SPM 3/18	4SP 3/18	1.1	1.5		114	109	105	100	93	83	68	49
4SPM 3/22	4SP 3/22	1.5	2		139	133	128	122	114	101	83	60
4SPM 3/25	4SP 3/25	1.5	2		158	152	146	138	129	115	95	68
4SPM 3/33	4SP 3/33	2.2	3		208	200	192	182	171	153	125	89
	4SP 3/39	3	4		246	236	227	216	202	180	148	108
	4SP 3/45	3	4		284	274	261	245	230	203	165	123

Dimensions & weights

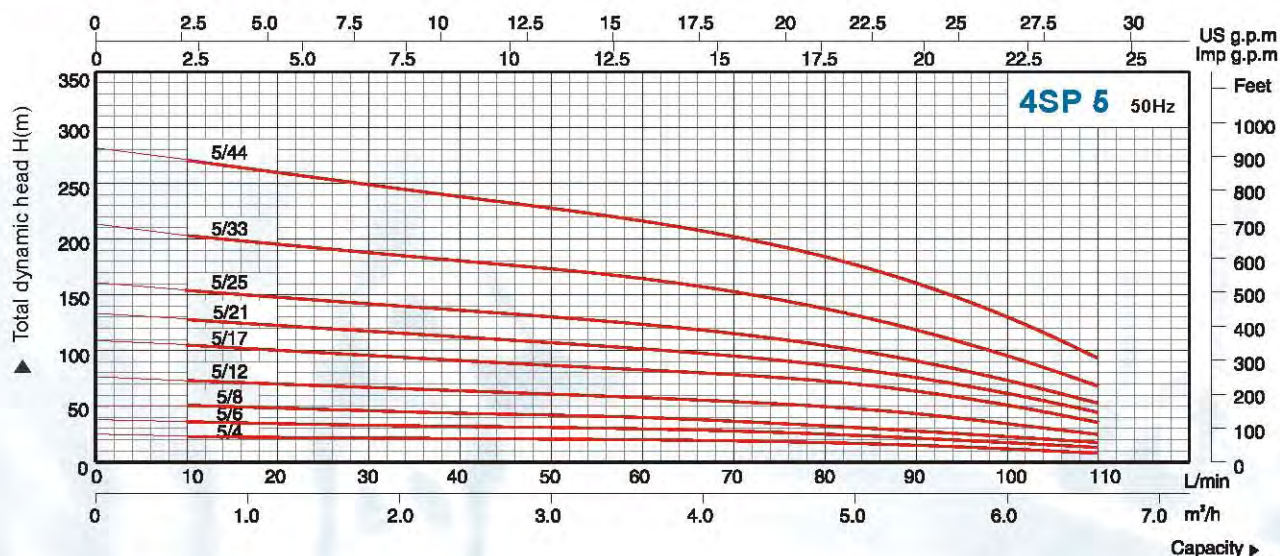


Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SPM3/6	280	613	2.4	9.9	10.5	660x φ 110
4SPM3/9	343	696	3	11.3	12.0	740x φ 110
4SPM3/12	406	784	3.8	12.8	13.6	830x φ 110
4SPM3/15	469	911	4.5	15.5	16.4	955x φ 110
4SPM3/18	532	974	5.1	16.1	17.0	1020x φ 110
4SPM3/22	616	1088	5.7	18.1	19.2	1135x φ 110
4SPM3/25	679	1151	6.3	18.7	19.8	1195x φ 110
4SPM3/33	847	1364	7.9	22.7	24.0	1410x φ 110
4SP3/9	343	676	3	10.3	11.0	720x φ 110
4SP3/12	406	769	3.8	12.8	13.6	815x φ 110
4SP3/15	469	876	4.5	14.2	15.1	920x φ 110
4SP3/18	532	939	5.1	14.8	15.7	985x φ 110
4SP3/22	616	1058	5.7	16.8	17.8	1105x φ 110
4SP3/25	679	1121	6.3	17.4	18.5	1165x φ 110
4SP3/33	847	1349	7.9	21.7	23.0	1395x φ 110
4SP3/39	973	1525	9.8	26.4	27.8	1570x φ 110
4SP3/45	1099	1651	10.8	27.4	29.0	1695x φ 110

4SP 5 DEEP WELL SUBMERSIBLE PUMP

FLOW

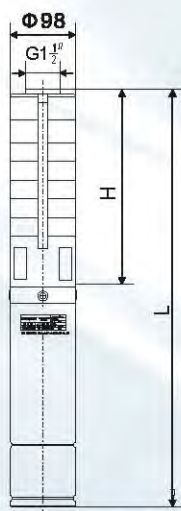
Performance curves



Performance table

Model(50Hz)		Motor power		Capacity											
Single phase	Three phase			l/min m³/h	0	20	30	40	50	60	70	80	90	100	110
4SPM 5/4		0.37	0.5	Head (m)	26	24	23	22	21	20	19	17	14	11	8
4SPM 5/6	4SP 5/6	0.55	0.75		38	35	34	33	31	30	28	25	21	17	12
4SPM 5/8	4SP 5/8	0.75	1		51	47	45	44	42	40	37	33	28	23	17
4SPM 5/12	4SP 5/12	1.1	1.5		76	71	68	66	63	59	55	50	43	35	25
4SPM 5/17	4SP 5/17	1.1	1.5		109	100	96	93	89	84	78	71	61	50	35
4SPM 5/21	4SP 5/21	1.5	2		134	124	118	113	107	100	94	85	75	62	44
4SPM 5/25	4SP 5/25	1.5	2		160	147	141	136	130	124	115	104	90	73	52
4SPM 5/33	4SP 5/33	2.2	3		211	194	187	180	172	163	152	137	118	96	69
	4SP 5/44	3	4		281	259	249	240	230	218	202	183	158	128	92

Dimensions & weights

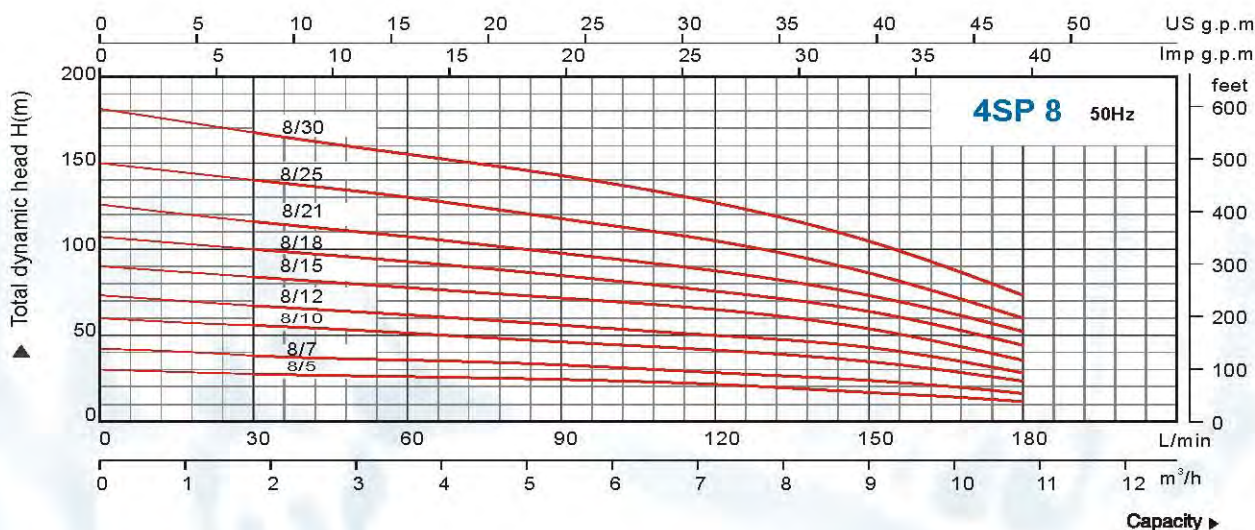


Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SPM5/4	238	571	2.0	9.5	10.1	615x φ 110
4SPM5/6	280	633	2.4	10.7	11.3	680x φ 110
4SPM5/8	322	700	2.8	11.8	12.5	745x φ 110
4SPM5/12	406	784	3.8	14.8	15.6	830x φ 110
4SPM5/17	511	953	4.8	15.8	16.7	1000x φ 110
4SPM5/21	595	1067	5.5	17.9	18.9	1115x φ 110
4SPM5/25	679	1151	6.3	18.7	19.8	1195x φ 110
4SPM5/33	847	1364	7.9	22.7	24.0	1410x φ 110
4SP5/6	280	613	2.4	9.7	10.3	660x φ 110
4SP5/8	322	685	2.8	11.8	12.5	730x φ 110
4SP5/12	406	813	3.8	13.5	14.3	860x φ 110
4SP5/17	511	918	4.8	14.5	15.4	965x φ 110
4SP5/21	595	1037	5.5	16.6	17.6	1085x φ 110
4SP5/25	679	1121	6.3	17.4	18.5	1165x φ 110
4SP5/33	847	1340	7.9	21.7	23.0	1385x φ 110
4SP5/44	1078	1630	10.1	26.7	28.2	1675x φ 110

4SP 8 DEEP WELL SUBMERSIBLE PUMP

FLOW

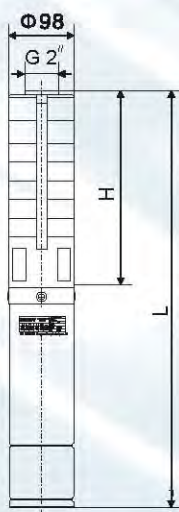
Performance curves



Performance table

Model		Motor power		Capacity							
Single phase	Three phase	Kw	HP	l/min m³/h	0	30	60	90	120	150	180
					0	1.8	3.6	5.4	7.2	9	10.8
4SP(M)8/5	4SP8/5	0.75	1	Head (m)	30	28	26	24	21	17	12
4SP(M)8/7	4SP8/7	1.1	1.5		42	39	36	33	29	24	17
4SP(M)8/10	4SP8/10	1.5	2		60	55	51	48	42	35	24
4SP(M)8/12	4SP8/12	2.2	3		74	67	62	57	50	43	28
4SP(M)8/15	4SP8/15	2.2	3		90	84	78	72	65	54	36
	4SP8/18	3	4		108	100	93	85	76	63	44
	4SP8/21	4	5.5		126	117	108	99	89	73	51
	4SP8/25	4	5.5		150	140	130	117	105	86	60
	4SP8/30	5.5	7.5		181	168	155	142	127	105	73

Dimensions & weights

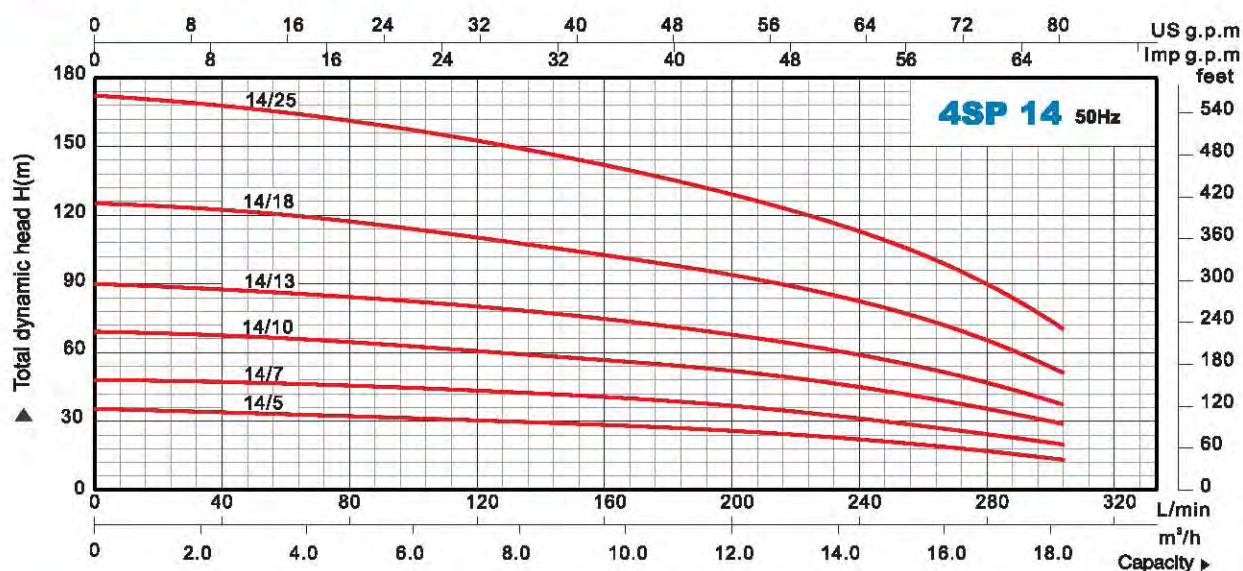


Model (50Hz)	H (mm)	L (mm)	N.W kg		G.W (kg)	Packing dimension (mm)
			H	L		
4SPM8/5	282	660	2.4	11.4	12.1	705x φ 110
4SPM8/7	313	691	2.9	13.9	14.6	735x φ 110
4SPM8/10	395	867	3.7	16.1	17.0	915x φ 110
4SPM8/12	474	991	4.2	19.0	19.9	1035x φ 110
4SPM8/15	556	1073	5.1	19.9	20.9	1120x φ 110
4SP8/5	282	645	2.4	11.4	12.1	690x φ 110
4SP8/7	313	720	2.9	12.6	13.3	765x φ 110
4SP8/10	395	837	3.7	14.8	15.6	885x φ 110
4SP8/12	474	967	4.2	18.0	18.9	1015x φ 110
4SP8/15	556	1049	5.1	18.9	19.9	1095x φ 110
4SP8/18	638	1190	5.8	22.4	23.5	1235x φ 110
4SP8/21	720	1322	6.5	25.5	26.7	1370x φ 110
4SP8/25	829	1431	7.6	26.6	27.9	1480x φ 110
4SP8/30	966	1712	8.9	40.3	42.0	1760x φ 110

4SP 14 DEEP WELL SUBMERSIBLE PUMP

FLOW

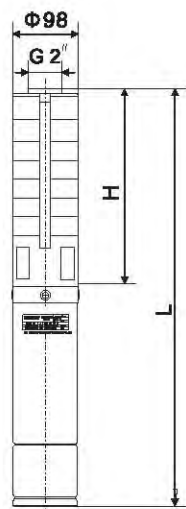
Performance curves



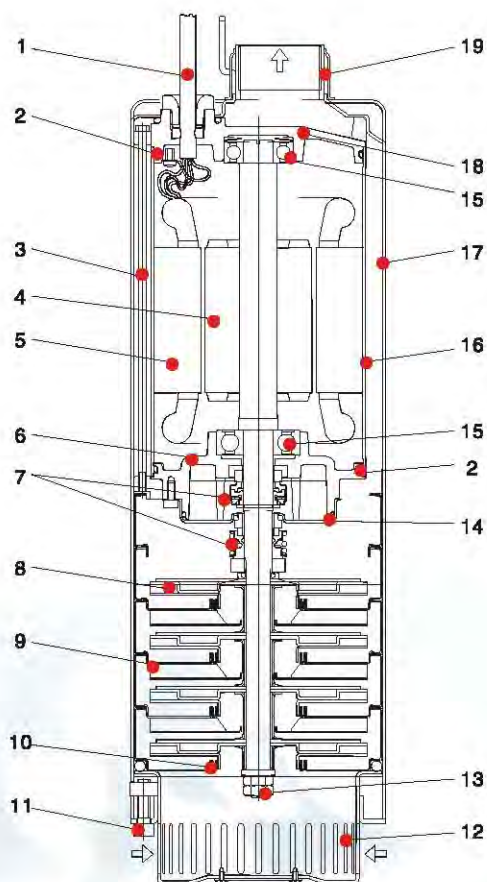
Performance table

Model(50Hz)		Motor		Capacity											
Single phase	Three phase	Model	Power		l/min	0	33	67	100	133	167	200	233	267	300
			Kw	HP	m³/h	0	2	4	6	8	10	12	14	16	18
4SPM14/5	4SP14/5	4SD(M)	1.5	2	Head (m)	35	34	33	31	30	28	26	23	19	14
4SPM14/7	4SP14/7		2.2	3		48	47	46	44	42	40	37	33	27	20
	4SP14/10	4SD	3	4		69	67	66	63	58	56	52	46	38	28
	4SP14/13		4	5.5		90	88	86	82	78	73	68	60	50	37
	4SP14/18		5.5	7.5		125	122	119	113	107	101	94	83	69	51
	4SP14/25		7.5	10		172	169	164	156	148	140	129	115	94	70

Dimensions & weights



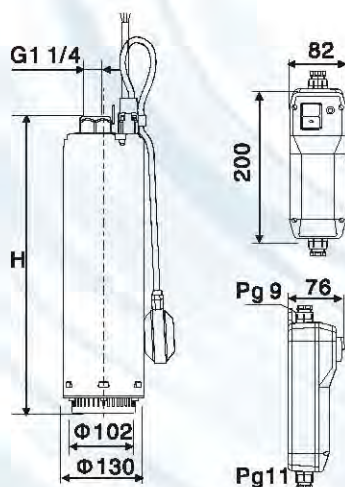
Model (50Hz)	Motor Model	H (mm)	L (mm)	N.W kg	
				H	L
4SPM14/5	4SD(M)	510	979	6.5	18.9
4SPM14/7		640	1154	8	22.8
4SP14/5	4SD	510	949	6.5	17.6
4SP14/7		640	1139	8	21.8
4SP14/10		835	1384	10	26.6
4SP14/13		1030	1629	12	27
4SP14/18		1355	2098	15	42.3
4SP14/25		1810	2660	36	67.4



Materials of construction

Item No.	Part name	Material
1	Cable	
2	"O"ring	NBR
3	Bolt	AISI304SS
4	Rotor	(Shaft:AISI420SS)
5	Stator	
6	Bearing house	Cast-cu or AISI304SS
7	Mechanical seal	Carbon VS Ceramics
8	Impeller	AISI304SS
9	Diffuser	AISI304SS
10	Seal ring	F4
11	Bolt	AISI304SS
12	Suction screen	AISI304SS
13	Nut	AISI304SS
14	Plate	AISI304SS
15	Ball bearing	
16	Motor Casing	AISI304SS
17	Pump casing	AISI304SS
18	Up-Bearing house	Cast-cu or AISI304SS
19	Discharge head	AISI304SS

Dimensions & weights



MXSM...CG
With float switch
pump (on demand)

Model		H	Kg							Packing dimension
			MXS		MXSM		MXSM.CG			
			mm	N.W	G.W	N.W	G.W	N.W	G.W	mm
50Hz	203	410	12.4	13.0	13.4	14.0	13.7	14.3	440×210×250	
	204	434	12.8	13.5	13.9	14.6	14.2	14.9	455×210×250	
	205	458	14.7	15.4	15.8	16.5	16.1	16.8	490×210×250	
	206	506	16.0	16.8	17.4	18.2	17.7	18.5	535×210×250	
	207	530	16.5	17.4	17.9	18.8	18.2	19.1	585×210×250	
	208	554	17.8	18.7	19.2	20.1	19.5	20.4	585×210×250	
	404	458	15.0	15.7	16.4	17.1	16.6	17.3	490×210×250	
	405	482	16.3	17.0	17.7	18.4	18.0	18.7	510×210×250	
	406	506	16.8	17.6	18.2	19	18.5	19.3	535×210×250	
	407	554	18.9	20.8	21.1	22	21.4	22.3	585×210×250	
	408	578	19.4	20.2	21.6	22.4	21.9	22.7	610×210×250	
	803	453	15.8	16.5	17.2	17.9	17.5	18.3	490×210×250	
	804	506	16.6	17.4	18.8	19.6	19.1	19.9	535×210×250	
60Hz	202	386	11.9	12.5	12.9	13.5	13.2	13.8	410×210×250	
	203	410	13.7	14.3	14.8	15.4	15.1	15.7	440×210×250	
	204	458	15.8	16.5	17.2	17.9	17.5	18.3	490×210×250	
	205	482	16.3	17.1	17.7	18.4	18.0	18.8	510×210×250	
	206	530	18.5	19.4	20.6	21.5	20.9	21.8	585×210×250	
	402	386	13.2	13.8	14.3	14.9	14.6	15.2	410×210×250	
	403	434	15.3	16.0	16.7	17.4	17.0	17.7	455×210×250	
	404	482	17.4	18.2	19.6	20.4	19.9	20.7	510×210×250	
	405	506	18.9	19.8	21.0	21.8	21.3	22.2	535×210×250	
	802	448	16.4	17.1	17.6	18.3	17.9	18.6	490×210×250	
	803	482	18.4	19.2	20.5	21.3	20.8	21.5	510×210×250	

Performance table

50Hz

3 ~	230 v	400 v	1 ~	230 v	Capacitor		P1		P2		Q m³/h l/min	0	1	1.5	2	2.5	3	3.5	4	4.5
	A	A		A	µF	V	Kw	Kw	HP	0		16.6	25	33.3	41.6	50	58.3	66.6	75	
MXS 203	2.4	1.4	MXSM 203	3.5	20	450	0.8	0.55	0.75	Head (m)	33	31	29.5	27.5	25	22	19	16	12	
MXS 204	2.7	1.6	MXSM 204	4.1	20	450	0.85	0.55	0.75		44	41.5	39.5	36.5	33.5	29.5	25.5	21	16	
MXS 205	3.3	1.9	MXSM 205	5	20	450	1.1	0.75	1		53	49.5	47	44	40	35	30	25	19	
MXS 206	3.8	2.2	MXSM 206	6	25	450	1.3	0.9	1.2		65	61	58	54	49	43	37	30.5	23	
MXS 207	4.3	2.45	MXSM 207	6.3	30	450	1.35	0.9	1.2		76.5	71	67.5	62.5	57.5	52.5	46	40	32.5	
MXS 208	4.8	2.75	MXSM 208	7.2	30	450	1.35	1.1	1.5		87.5	81	77	71.5	66	60	52.5	46	37	

3 ~	230v	400v	1 ~	230v	Capacitor		P1	P2		Q m³/h l/min	0	2.5	3	3.5	4	4.5	5	6	7	8
	A	A		A	µF	V	Kw	Kw	HP		0	41.6	50	58.3	66.6	75	83.3	100	116	133
MXS 404	3.8	2.2	MXSM 404	6	25	450	1.3	0.9	1.2	Head (m)	43	39	38	36.5	35	33	30	25.5	19.5	13
MXS 405	4.5	2.6	MXSM 405	7	25	450	1.55	1.1	1.5		53	48	46.5	45	43	40	37.5	32	24	15
MXS 406	4.8	2.8	MXSM 406	7.6	30	450	1.65	1.1	1.5		66	60	58	56	54	51.5	49	42	34	20.5
MXS 407	5.7	3.3	MXSM 407	9.5	35	450	1.95	1.5	2		77	70	68	65.5	63	60	57	49	39.5	24
MXS 408	6.6	3.8	MXSM 408	10.5	35	450	2.2	1.5	2		88	80	77.5	75	72	68.5	65	56	45	27.5

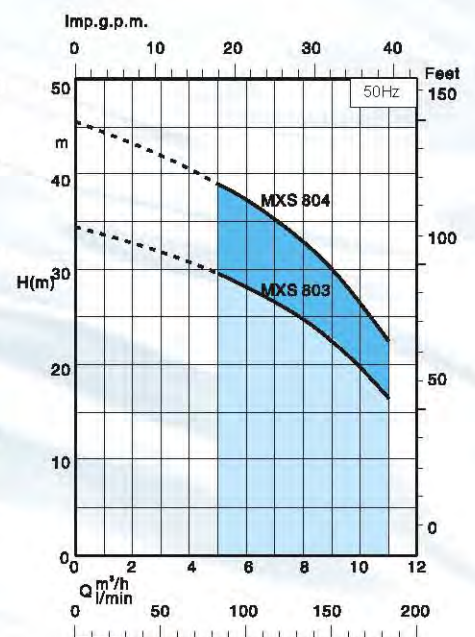
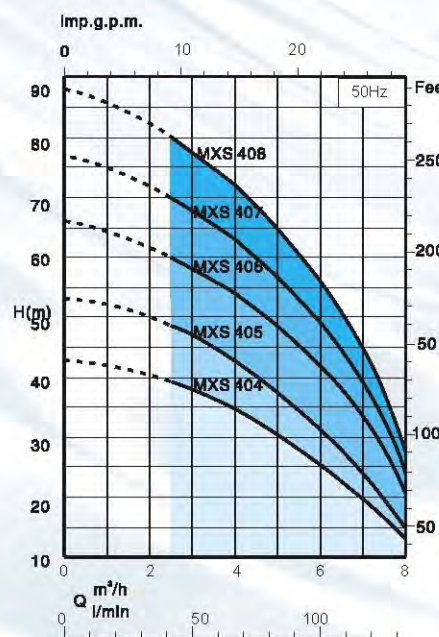
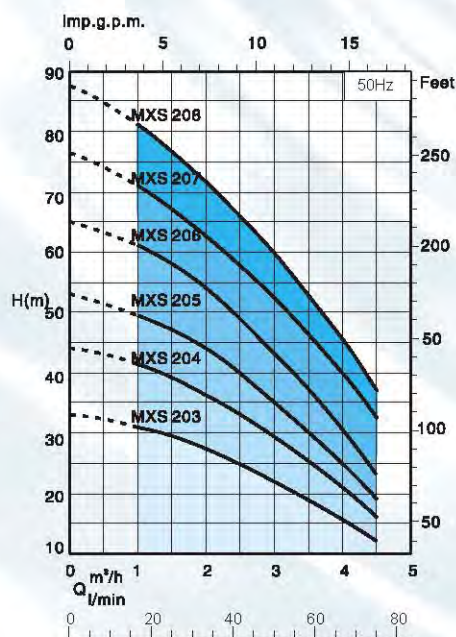
3 ~	230v	400v	1 ~	230v	Capacitor	P1	P2		Q m³/h										
	A	A		A	μF	V	Kw	Kw	HP		0	5	6	7	8	9	10	11	
MXS803	4.5	2.6	MXSM803	7	25	450	1.55	1.1	1.5	Head (m)	34.5	29.5	28	26.5	24.5	22.5	20	16.5	
MXS804	6.6	3.8	MXSM804	10	35	450	1.95	1.5	2		45.5	39	37	35	32.5	30	26.5	22.5	

P1 Max.p power i nput

P 2 Rated motor power output.

Performance curves

n ≈ 2900r/min



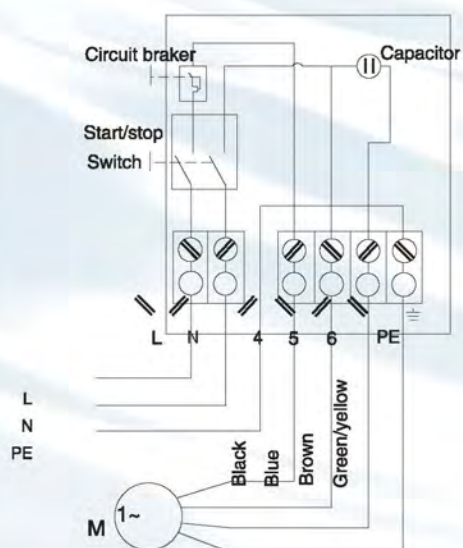
Application:

Protection and control of a single-phase submersible electric pump .

Specification:

- Maximum relative humidity: 50% at +40℃,
- Wall mounted with fins.
- Plastic enclosure.
- Incorporated capacitor.
- Main switch with manual–reset thermal device.
- Protection and power indicator light.

Panel Model	Rated power		Voltage	Rated current	Capacitor		Dimension	G.W
	Kw	HP	v	A	μF	V	mm	kg
KZ0.5	0.37	0.55	230	4	15	450	200x155x80	0.50
KZ0.75	0.55	0.75	230	5	20	450	200x155x80	0.51
KZ1	0.75	1	230	8	30	450	200x155x80	0.55
KZ1.5	1.1	1.5	230	10	35	450	200x155x80	0.59
KZ2	1.5	2	230	12	45	450	200x155x80	0.63
KZ3	2.2	3	230	16	50	450	200x155x80	0.63



Technical data

Single Phase motor intelligent controller.

Single phase capacitance operating motor is equipped with a external capacitance and automatic memory program in the intelligent controller which can automatically break down power supply (Auto, recover) when motor over loading

Suitable Application range :

- Type of motor: single phase capacitance motor
- Motor Power: 0.37 ~2.2 KW
- Voltage: 220V ~240V/AC
- Frequency: 50Hz, 60Hz

Product Functions

- Protect against short circuit
- Protect against over current
- Protect against lightning strike
- Protect against pump dry-running
- Voltage Current digital display.

Technical character s

- Manual /Auto control
- Double Liquid level auto control
- Pulse electrode probe check

Technical Index

- Action time of short circuit < 0.1 sec
- Action time of over current: 5 sec
- Recovery time of over current: 30 min.
- Action time of dry-running protection: 6 sec.
- Recovery time of dry-running: 30 min
- Double liquid level transfer distance : > 1000m

Installation environment index

- Grade of protection: IP20
- Environment temperature: - 25℃~ + 55℃
- Environment humidity: (20 ~90) % RH



Single phase voltage 220V 50 Hz	Motor power		Capacitor 450V	Dimension	G.W
	Kw	HP	μ F	mm	kg
A2-0.37	0.37	0.5	15	228x160x83	1.3
A2-0.55	0.55	0.75	20		
A2-0.75	0.75	1	30		
A2-1.1	1.1	1.5	35		
A2-1.5	1.5	2	45		
A2-2.2	2.2	3	50		

Suitable Application range :

- Type of motor: three phase capacitance motor
- Motor Power: 0.75Kw ~18.5Kw
- Voltage: 380V~415V/AC
- Frequency: 50Hz, 60Hz

Product Functions

- Protect against short circuit
- Protect against over current
- Protect against open phase
- Protect against lightning strike
- Protect against pump dry-running
- Voltage Current digital display.

Technical characters

- Manual /Auto control
- Double liquid level auto control
- Pulse electrode probe check



Technical data

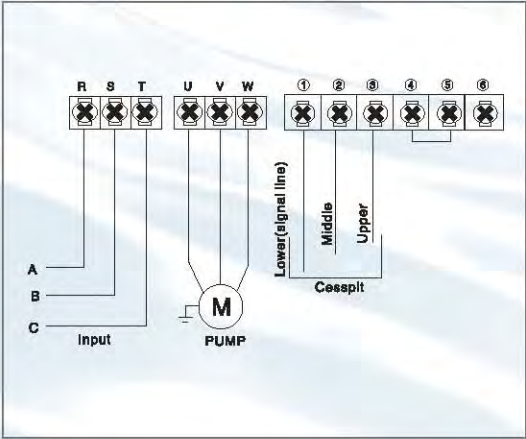
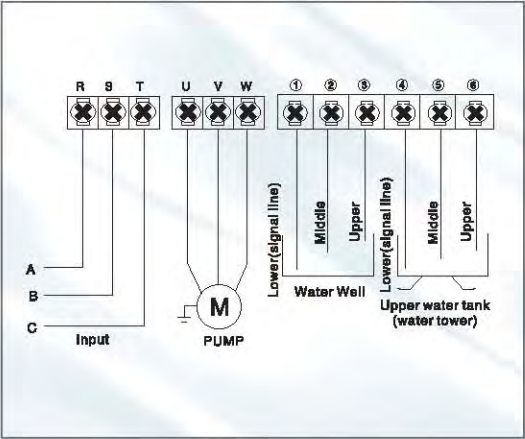
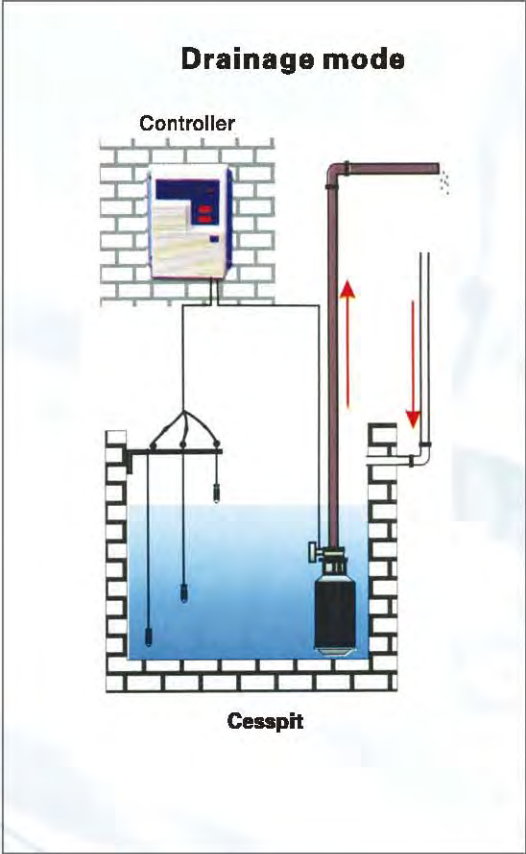
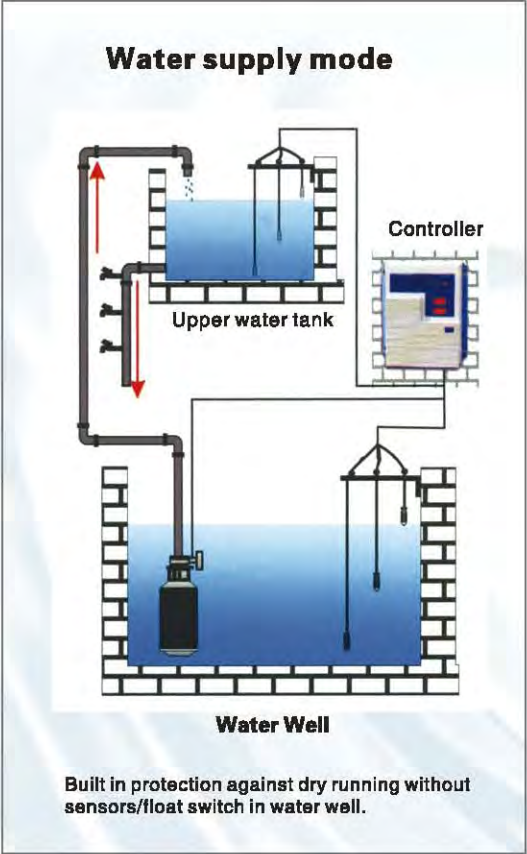
- Action time of short circuit < 0.1 sec
- Action time of open phase: < 2 sec
- Action time of over current: 5 sec
- Recovery time of over current: 30 min
- Action time of dry-running protection: 6 sec.
- Recovery time of dry-running: 30 min
- Double liquid level transfer distance : > 1000m

Installation environment index

- Grade of protection: IP20
- Environment temperature: -25℃~ +55℃
- Environment humidity: (20~90)%RH

Three phase	Motor power		Dimension	G.W
	Kw	HP	mm	kg
A6-1	0.75~4	1~5	228x160x82	1.3
A6-2	5.5~7.5	7.5~10	228x160x82	1.3
A8-1	0.75~4	1~5	370x276x125	3.3
A8-2	5.5~11	7.5~15	370x276x125	3.3
A8-3	15	20	370x276x125	3.3

Typical Application Of A6/A8 Intelligent Pump Controller





Technical characteristic

- Control characteristic: double liquid-level automatic control
- Control method: Manual/Auto control
- Liquid control characteristic: pulse electrode probe check
- Pressure control characteristic: pressure switch(N/C)&pressure tank

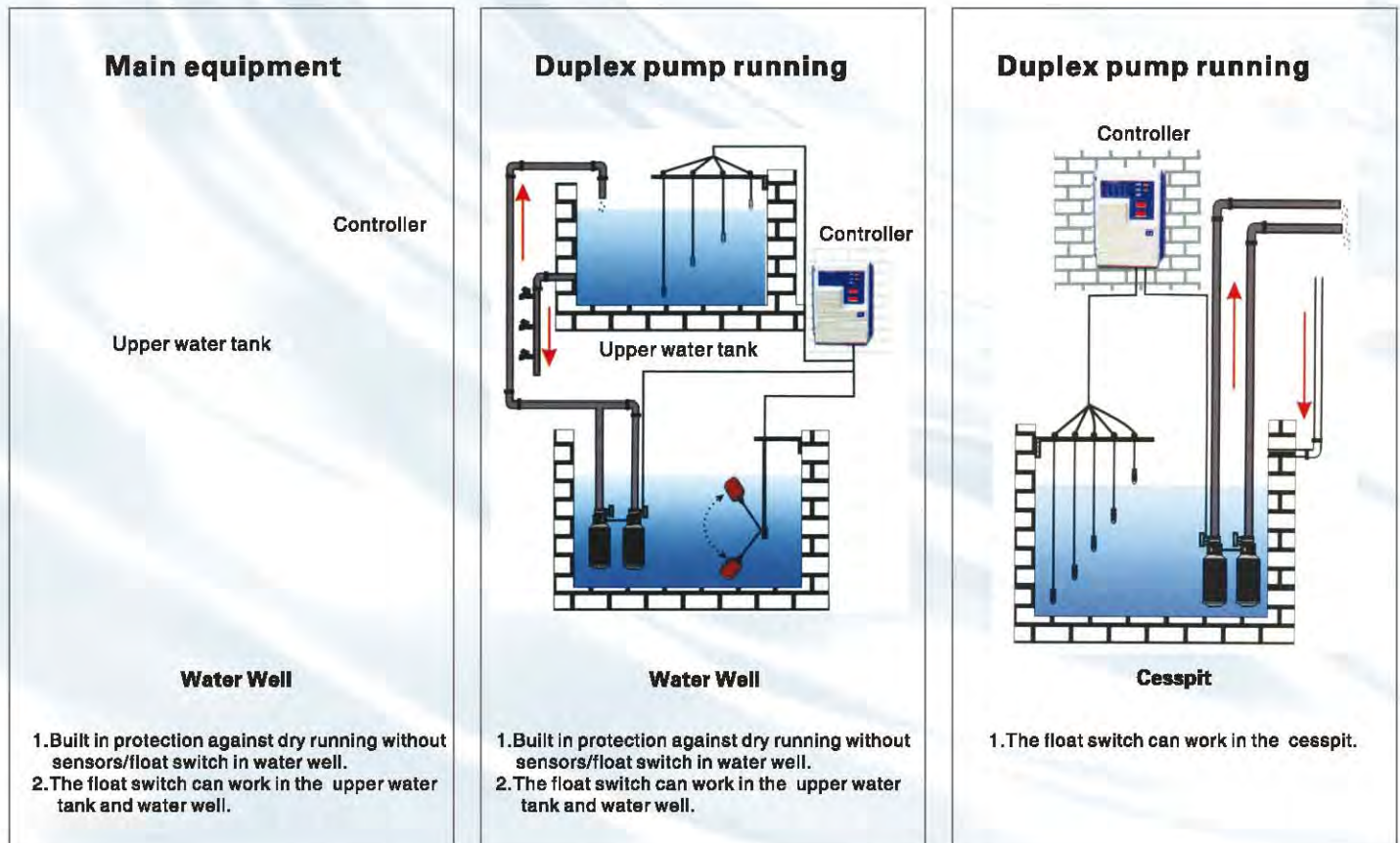
Main technical specification

- Rated output power: 0.75–4KW、5.5–11KW、15KW (refer to the name plate)
- Rated working voltage: AC380V/50Hz
- Trip response time of over current: 5sec–5min (inverse response property
the stronger the current the shorter the response time)
- Trip response time of open phase: <2sec
- Trip response time of short circuit: <0.1sec
- Trip response time of under volt: <5sec
- Trip response time of dry-running: 6sec
- Set voltage of Under .V: 323V
- Recovery time of over-current: 30minutes
- Recovery time of dry-running: 30minutes
- Liquid-level transfer distance: ≤ 1000 meters
- Operating environment: apply to conventional working environment
- Protection Class: IP20
- Operating temperature: -25°C — $+55^{\circ}\text{C}$
- Operating humidity: 20%—90%RH, no drops concentered
- Vibration of standard altitude: 3000meters below sea level, the vibration is under 0.6G

Product Features

- Specially designed for duplex pump control & protection
- Built in FUNCTION SWITCH to apply different application
- Applied for irrigation/ sewage / drainage with overflow alarm, supporting duplex pump running together if more pressure demanding;
- Applied for water supply, supporting duplex pump running together if more water demanding
- Equipped with manual or automatic mode switch.
- Automatically stops the pump in event of water flow shortage, thereby protecting it from dry running without the installation of sensors in the well.
- Automatic alarm and protection against short circuit, over-current and open phase occurrence. Under/ Voltage protection.
- Real-time display by digital voltmeter/ampere meter.
- Visual alarm signals malfunction occurrence.
- Calibration of protection parameters and memory function by single key operation.
- Warning light signals in event of incomplete calibration of protection parameters.
- Starts and stops the pump according to set liquid or pressure levels.

Typical Application Of A9 Intelligent Pump Controller



FLOW



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