

Product Catalogue





VEGA 4 SDM
Borehole Pump Kit

4 SD BOREHOLE RANGE (4")

Applications

For water supply from boreholes, wells or reservoirs For domestic use, for civil and Industrial applications For garden use and irrigation

Materials of

Materials of Construction

Components	Material					
Wet	End					
Pump external casing	AISI 304 SS					
Delivery casing	Cast-Cu ASTM C85500					
Suction lantern	Cast-Cu ASTM C85500					
Diffuser	Plastic.PC					
Impeller	Plastic.POM					
Shaft	AISI 304 SS					
Shaft coupling	AISI 304 SS					
Wearring	AISI 304 SS					
Mo	otor					
Motor external casing	AISI 304 SS					
Top shock	Cast-Cu ASTM C85500					
Top chock	Cast-Iron ASTM No.30					
Bottom support	AISI 304 SS					
Mechanicalseal	Graphite - Ceramic					
Shaft	AISI 304 SS - ASTM 5140					
Bearing	NSK					
Seal lubricant oil	Food grade oil					

Operating Conditions

Maximum fluid temperature: up to 35 °C

Maximum sand content: 0.25%

Minimum well diameter: 4"

Warranty:

1 year

According to our general sales conditions

Motor and Pump

Single-phase: 220-240V/50Hz

Three-phase: 380-415V/50Hz

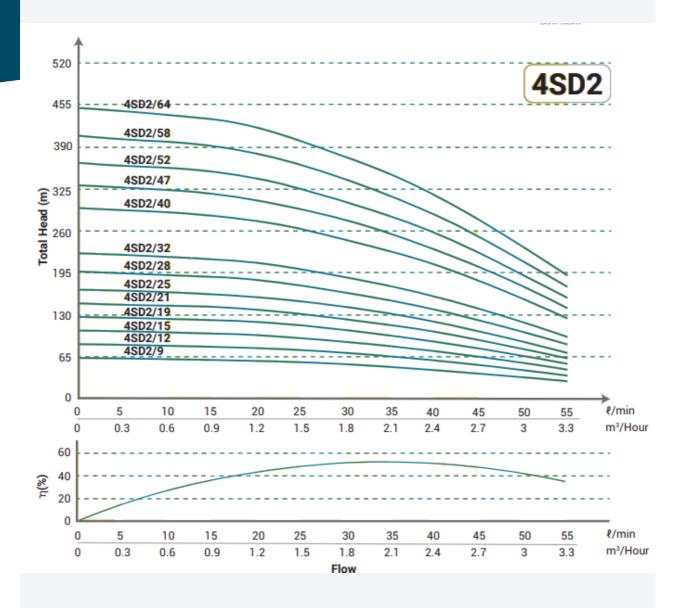
Solar: 220V-3 Phase

Equipped with start control box or digital auto-control box NEMA dimension standards

Curve tolerance according to ISO 9906



4 SD 2

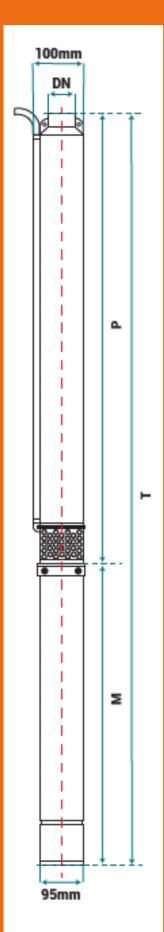


Performance Data 50Hz

MODEL (50Hz) P2			Delivery n≈2850 1/min													
MODEL	. (50112)	PZ		m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	2.7	3.0	3.3
1 - 220-240V	3 - 380 - 415V	kW	HP	l/min	0	5	10	15	20	25	30	35	40	45	50	55
4SDM2/9	4SD2/9	0.37	0.5		63	63	63	62	59	56	52	47	42	35	27	17
45DM2/12	45D2/12	0.55	0.75		84	84	84	82	79	75	69	63	56	47	36	23
4SDM2/15	45D2/15	0.75	1		98	98	98	96	92	87	81	73	65	54	42	27
4SDM2/19	45D2/19	1.1	1.5		134	134	132	130	125	118	109	100	88	74	57	36
45DM2/21	45D2/21	1.1	1.5		155	155	153	151	145	137	127	115	102	85	66	42
4SDM2/25	45D2/25	1.5	2	Œ	176	176	174	171	164	155	144	131	116	97	75	48
4SDM2/28	45D2/28	1.5	2		197	197	195	192	184	174	161	147	130	109	84	53
45DM2/32	45D2/32	2.2	3	НЕАБ	239	239	237	233	223	211	196	178	157	132	102	65
45DM2/40	45D2/40	2.2	3		281	281	279	274	263	249	230	210	185	155	120	76
-	45D2/47	3	4		323	323	321	315	302	286	265	241	213	178	138	88
-	45D2/52	4	5.5		366	366	362	356	342	323	299	273	241	202	156	99
-	45D2/58	4	5.5		408	408	404	397	381	360	334	304	269	225	174	111
-	4SD2/64	4	5.5		457	457	453	445	427	404	374	341	301	252	195	124



DIMENSIONS & WEIGHTS



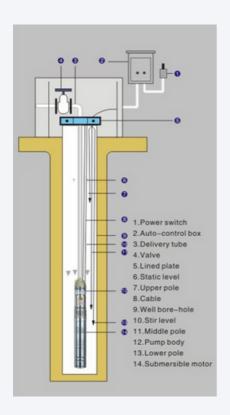
MO	DEL			DIME	ISIONS	(mm)		WEIGHTS (kg)				
		DN										
1-	3-		P	M(8)	Mπ	T(8)	Tm	P	M(8)	Mπ	T(8)	Tm
220-240V 45DM2/7	380 - 415V 4SD2/7	11/2"	392	299	299	691	691	3.3	5.5	5.8	8.8	9.1
45DM2/9	45D2/7 45D2/9	11/2"	440	314	314	754	754	3.8	6.7	6.7	10.5	10.5
45DM2/12	45D2/12	11/2"	514	329	329	843	843	4.6	7.3	7.3	11.9	11.9
45DM2/14	45D2/14	11/2"	562	344	344	906	906	5.0	8.0	8.0	13.0	13.0
45DM2/16	45D2/16	11/2"	611	359	344	970	955	5.5	8.7	8.0	14.2	13.5
4SDM2/19	45D2/19	11/2"	684	379	379	1063	1063	6.2	9.8	9.8	16.0	16.0
45DM2/22	45D2/22	11/2"	789	399	379	1188	1168	7.0	10.6	9.8	17.6	16.8
4SDM2/25	4SD2/25	11/2"	862	424	424	1286	1286	7.7	11.7	11.7	19.4	19.4
4SDM2/28	4SD2/28	11/2"	936	449	424	1385	1360	8.4	12.9	11.7	21.3	20.1
4SDM2/34	4SD2/34	11/2"	1082	502	514	1584	1596	9.7	15.7	15.7	25.4	25.4
4SDM2/40	4SD2/40	11/2"	1228	542	514	1770	1742	10.9	17.7	15.7	28.6	26.6
4SDM2/46	4SD2/46	11/2"	1406	594	554	2000	1960	12.4	19.8	17.7	32.2	30.1
-	4SD2/52	11/2"	1553	-	594	-	2147	13.9	-	19.8	-	33.7
-	4SD2/58	11/2"	1699	-	658	-	2357	15.8	-	21.4	-	37.2
-	4SD2/65	11/2"	1901	-	698	-	2599	17.5	-	23.7	-	41.2
4SDM3/5	4SD3/5	11/2"	355	299	299	654	654	2.8	5.5	5.8	8.3	8.6
4SDM3/7	4SD3/7	11/2"	409	314	314	723	723	3.4	6.7	6.7	10.1	10.1
4SDM3/10	4SD3/10	11/2"	490	329	329	814	819	4.1	7.3	7.3	11.4	11.4
4SDM3/11	4SD3/11	11/2"	517	344	344	861	861	4.4	8.0	8.0	12.4	12.4
4SDM3/13	4SD3/13	11/2"	571	359	344	930	915	4.9	8.7	8.0	13.6	12.9
4SDM3/15	4SD3/15	11/2"	624	379	379	1003	1003	5.4	9.8	9.8	15.2	15.2
4SDM3/18	45D3/18	11/2"	737	399	379	1136	1116	6.2	10.6	9.8	16.8	16.0
4SDM3/20	4SD3/20	11/2"	790	424	424	1214	1214	6.7	11.7	11.7	18.4	18.4
4SDM3/22	45D3/22	11/2"	844	449	424	1293	1268	7.3	12.9	11.7	20.2	19.0
4SDM3/26	4SD3/26	11/2"	952	502	514	1454	1466	8.3	15.7	15.7	24.0	24.0
45DM3/30	45D3/30	11/2"	1059	542	514	1601	1573	9.3	17.7	15.7	27.0	25.0
4SDM3/35	45D3/34	11/2"	1194	594	554	1664	1748	10.6	19.8	17.7	30.4	28.3
-	4SD3/40	11/2"	1360	-	594	-	1954	11.9	-	19.8	-	31.7
-	4SD3/45	11/2"	1494	-	658	-	2152	13.2	-	21.4	-	34.6
-	4SD3/50	11/2"	1629	-	698	-	2327	14.5	-	23.7	-	38.2
-	45D3/56	11/2"	1790	-	738	-	2528	16.1	-	25.5	-	41.6
-	45D3/62	11/2"	1983	-	788	-	2771	17.6	-	28.0	-	45.6
		as bu										
4SDM4/6	4SD4/6	11/2"	396	314	314	710	710	3.2	6.7	6.7	9.9	9.9
4SDM4/8	45D4/8	11/2"	454	329	329	783	783	3.7	7.3	7.3	11.0	11.0
45DM4/9	45D4/9	11/2"	484	344	344	828	828	4.0	8.0	8.0	12.0	12.0
4SDM4/10	4SD4/10	11/2"	513	359	344	872	857	4.3	8.7	8.0	13.0	12.3
4SDM4/12 4SDM4/14	4SD4/12	11/2"	571	379	379	950	950	4.8	9.8	9.8	14.6	14.6
4SDM4/14 4SDM4/16	4SD4/14 4SD4/16	11/2" 11/2"	630 688	399 424	379 424	1029	1009	5.3	10.6	9.8	15.9 17.6	15.1 17.6
4SDM4/18	45D4/16 45D4/18	11/Z"	778	449	424	1227	1202	6.4	12.9	11.7	19.3	18.1
45DM4/21	45D4/18 45D4/21	11/2"	866	502	514	1368	1380	7.2	15.7	15.7	22.9	22.9
45DM4/24	45D4/21 45D4/24	11/2"	953	542	514	1495	1467	8.1	17.7	15.7	25.8	23.8
45DM4/28	45D4/24 45D4/28	11/2"	1070	594	554	1664	1624	9.1	19.8	17.7	28.9	25.8
43DIVI4/28	45D4/28 45D4/32	11/2"	1167	-	594	-	1781	10.2	19.0	19.8	- 20.5	30.0
-	45D4/32 45D4/36	11/2"	1335		658	-	1993	11.3	-	21.4	-	32.7
-	45D4/40	11/2"	1452		698	-	2150	12.4	-	23.7	-	36.1
-	45D4/45	11/2"	1598	_	738	_	2336	13.7		25.5		39.2
-	45D4/45 45D4/50	11/2"	1744	-	788	-	2532	15.7	-	26.0	-	43.1
-	45D4/56	11/2"	1951	-	848	-	2799	16.7	-	30.0	-	46.7
-	45D4/62	11/2"	2126	-	908	-	3034	18.4	-	34.0	-	52.4
	4004/02	-4-	2120		500		2024	10.7		37.0		22.7

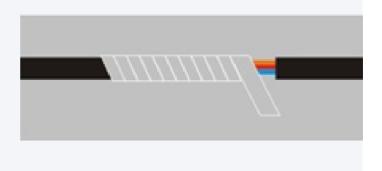
M(S) is single phase motor, M(T) is three phase motor. T(S) is single phase motor, T(T) is three phase motor



TECHNICAL DATA

INSTALLING A BOREHOLE PUMP AND MOTOR







MAXIMUM CABLE LENGTH FROM PUMP TO STARTER

Туре	kW	i"(A)	1.5 mm²	2.5 mm ²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²
	0.37	4.2	111	185	295				
	0.55	4.5	80	133	211	315			
2201//5011	0.75	6	58	96	153	229	377		
220V~/50H	1.1	9	48	79	153	190	316		
	1.5	10.3	34	57	92	137	228		
	2.2	14.6		43	68	102	169		
	0.37	1.4	768						
	0.55	2.2	489	811					
	0.75	2.3	416	691					
	1.1	3.4	281	467	744				
	1.5	4.2	219	363	579	862			
380V~/50H	2.2	5.5	153	254	405	605	997		
	3	7.9	113	188	300	447	736		
	4	9.6	89	147	235	350	578	909	
	5.5	13.6	66	109	174	260	427	671	
	7.5	17.6	49	81	130	193	319	501	746





4" OIL FILLED MOTOR 20 Bar Single Phase

Motor Technical Data

Single phase power: 0.37 to 2.2 kW

Speed: 2850 rpm

Voltage: 220 ~ 240V/50Hz

Insulation class: B

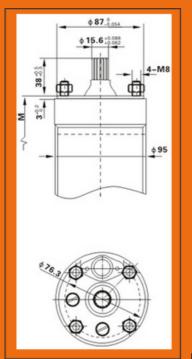
Protection grade: IP 68
Highest temperature of Liquid: 35oC

Maximum solid handling: 40g/m3

Motor casing: stainless steel

Maximum diameter: Φ 95 mm

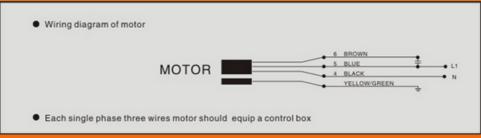
With sand proof cover/pressure balance membrane/mechanical seal for high performance. Flange and coupling according to NEMA standard.



Motor Dimensions

TYPE	MOTOR POWER		CAP	RUNNING	DIMEN	SIONS
Single Phase 220V~/50HZ	kW	HP	μf	Amps	Length (mm)	Weight (kg)
4SDm-0.37	0.37	0.5	20	3.7	314	6.7
4SDm-0.55	0.55	0.75	25	4.7	329	7.3
4SDm-0.75	0.75	1.0	35	6.2	344	8.0
4SDm-l.l	1.1	1.5	45	8.0	399	10.6
4SDm-l.5	1.5	2.0	55	10.5	424	11.7
4SDm-2.2	2.2	3.0	60	15	502	15.7

Motor Wiring

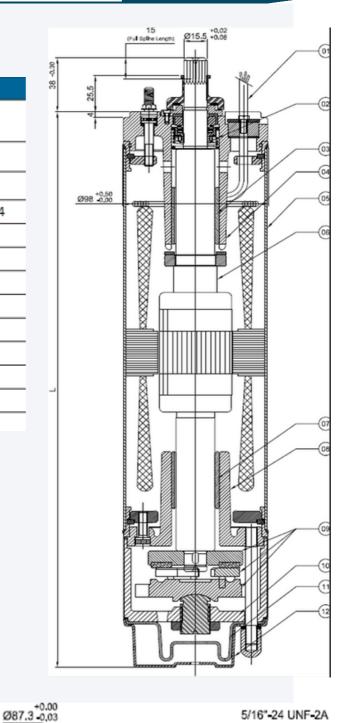




TECHNICAL DATA

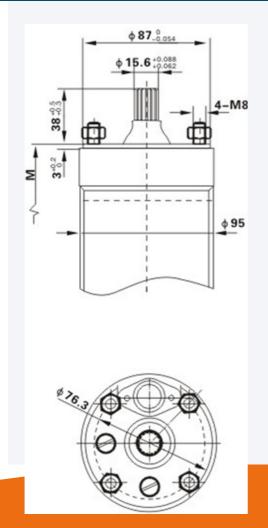
Motor Parts

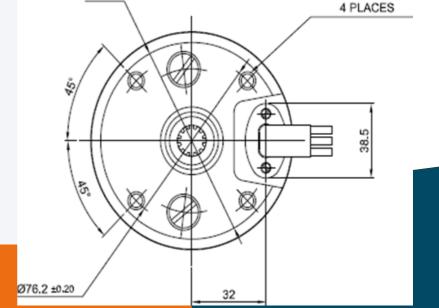
SERIAL NO.	PART NAME	MATERIAL		
01	Cable 3 Core/ 4 Core	EPR		
02	MechanicalSeal	Ceramic/Carbon		
03	Bearing Bush	Carbon		
04	Upper Housing	CI (FG-200)/S.S.304		
05	Motor Pipe	StainlessSteel		
06	Rotor shaft	S.S.420		
07	Bearing Bush	Carbon		
08	Lower Housing	CI (FG-200)		
09	Thrust Bearing set	Carbon/S.S. 420		
10	Lower Part - 2	CI (FG-200)		
11	Pressure Cup	N.B.R.		
12	Motor Base	S.S.304		
13	All Hardware	S.S.316		



5/16"-24 UNF-2A

Dimensional Drawings







PUMP CONTROLLER

MA ANALOGUE CONTROL BOX SINGLE PHASE

Technical data

This single phase control box is equipped with a capacitor and thermal over-load protector.



Application range

Type of motor: Single phase motor

Motor power: 0.37-2.2kW

Voltage: 220V ~ 240V

Frequency: 50Hz

Product functions

Provides basic protection against short circuiting and over current.



Grade protection: IP44

Environment temperature: -25°C to +55°C

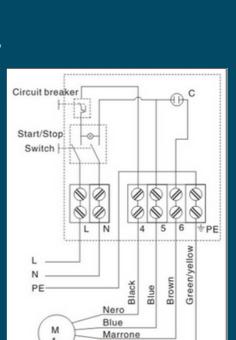
Environment humidity: (20-90)%RH

Operating method

Manual control

PO	WER	RUNNING CAPACITOR	МСВ
kW	HP	Microfarad (μF)	Amp
0.37	0.50	20	8
0.55	0.75	30	10
0.75	1.00	40	15
1.1	1.50	50	15
1.5	2.00	65	20
2.2	3.00	80	25





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