

VALCO Vera™ range SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS FOR DEEP WELLS for min. 4-inch wells COMPLETE WITH 2 POLE MOTORS TO NEMA STANDARD.

Applications

Suitable to replace standard surface pumps, carrying the advantages of lesser space needed, less maintenance and complete absence of noise.

For domestic drinking potable water , residential, commercial, industrial, agricultural, geothermal, civil applications, to pump and explore geothermal resources for fluids in spas, industry, agriculture and private, community and district heating and in all cases where it is requested to lift water out from below the ground from aquifers and to push it above with pressure: boreholes, bored wells, riverbanks, in-line pressure boosting, dewatering, sprinkler and drip irrigation systems, horticulture, greenhouses and gardening, air conditioning, water supply to offshore oil platforms, pressure boosting pumping / increasing water pressure, fire fighting, hydrant systems, deluge systems, fountains and water features, large rural irrigation schemes, turf watering installations and stock watering plants, washing and hobby uses, jet washing, station washing, dairy washdown, vegetable washing, dewatering of mines and excavations, level control (wellpoint) of groundwater waterbeds, sump drainage, artificial snow, solar power, monitor system, in-ground tank installation, underground water storage tanks installation, rainwater collection, etc.

Pumping of clean water in domestic applications from boreholes and wells, agricultural, industry, processing of drinking water distribution, water supply, firefighting, boosters, fountains, municipal water supply, mains and municipal boosting, sump drainage, dam drainage, mine water supply, river water extraction.
Private, residential, commercial, industrial buildings, hospitals, airports, schools, nurseries, farms, etc.

Built-in check non-return valve to protect the pump against water hammer.
Floating Version (F) Sand Resistant: reduces sand locking.



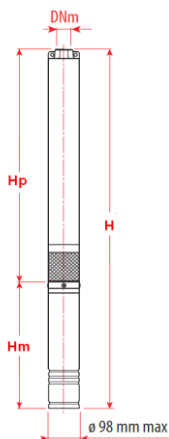
I-36063 Marostica (Vicenza) Italy
www.valco.eu

**Vera™ - VALCO BRAND SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS
FOR DEEP WELLS for min. 4-inch COMPLETE WITH 2 POLE MOTORS TO NEMA
STANDARD.**

Pump and motor construction data
with limits of use and operating conditions

Types		Pump height Hp (mm)	Pump and motor height H 1PH (mm)	Pump and motor height H 3PH (mm)	Pump weight (Kg)	Pump and motor weight 1PH (Kg)	Pump and motor weight 3PH (Kg)	Impeller radial MF=mixed flow	RA=	DNm	G
1 PH 230V 50Hz	3 PH 400V 50Hz										
4020-FP	4020-FPT	349	710	696	3,4	11,5	10,8	RA		1"1/4	
4050-FP	4050-FPT	270	631	617	2,7	10,8	10,1	RA		1"1/4	
4060-FP	4060-FPT	230	591	577	2,3	10,4	9,7	RA		1"1/4	
4090-FP	4090-FPT	218	579	565	2,2	10,3	9,6	RA		1"1/4	
4115-FP	4115-FPT	449	835	810	4,4	13,6	12,4	RA		1"1/4	
4135-FP	4135-FPT	349	735	710	3,5	12,7	11,5	RA		1"1/4	
4165-FP	4165-FPT	270	656	631	2,7	11,9	10,7	RA		1"1/4	
4180-FP	4180-FPT	262	648	623	2,6	11,8	10,6	RA		1"1/4	
4182-FP	4182-FPT	278	664	639	2,7	11,9	10,7	MF		2"	
4215-FP	4215-FPT	569	977	950	5,6	15,9	14,4	RA		1"1/4	
4230-FP	4230-FPT	430	838	811	4,4	14,7	13,2	RA		1"1/4	
4255-FP	4255-FPT	330	738	711	3,3	13,6	12,1	RA		1"1/4	
4275-FP	4275-FPT	306	714	687	3,0	13,3	11,8	RA		1"1/4	
42100-FP	42100-FPT	352	760	733	3,3	13,6	12,1	MF		2"	
42102-FP	42102-FPT	290	698	671	2,7	13,0	11,5	MF		2"	
4320-FP	4320-FPT	800	1231	1208	7,9	19,3	18,5	RA		1"1/4	
4322-FP	4322-FPT	569	1000	977	5,8	17,2	16,4	RA		1"1/4	
4355-FP	4355-FPT	430	861	838	4,3	15,7	14,9	RA		1"1/4	
4380-FP	4380-FPT	393	824	801	3,8	15,2	14,4	RA		1"1/4	
43105-FP	43105-FPT	463	894	871	4,3	15,7	14,9	MF		2"	
43125-FP	43125-FPT	370	801	778	3,4	14,8	14,0	MF		2"	
43127-FP	43127-FPT	402	833	810	3,4	14,8	14,0	MF		2"	
4400-FP	4400-FPT	1000	1464	1425	9,9	22,7	20,7	RA		1"1/4	
4415-FP	4415-FPT	728	1192	1153	7,4	20,2	18,2	RA		1"1/4	
4445-FP	4445-FPT	529	993	954	5,3	18,1	16,1	RA		1"1/4	
4465-FP	4465-FPT	481	945	906	4,7	17,5	15,5	RA		1"1/4	
4490-FP	4490-FPT	573	1037	998	5,3	18,1	16,1	MF		2"	
44110-FP	44110-FPT	450	914	875	4,1	16,9	14,9	MF		2"	
44130-FP	44130-FPT	435	899	860	3,5	16,3	14,3	MF		2"	
44132-FP	44132-FPT	470	934	895	3,9	16,7	14,7	MF		2"	
4500-FP	4500-FPT	1451	2013	1915	14,4	31,8	26,9	RA		1"1/4	
4520-FP	4520-FPT	1040	1602	1504	10,7	28,1	23,2	RA		1"1/4	
4545-FP	4545-FPT	728	1290	1192	7,3	24,7	19,8	RA		1"1/4	
4565-FP	4565-FPT	657	1219	1121	6,4	23,8	18,9	RA		1"1/4	
45100-FP	45100-FPT	794	1356	1258	7,3	24,7	19,8	MF		2"	
45120-FP	45120-FPT	609	1171	1073	5,5	22,9	18,0	MF		2"	
45150-FP	45150-FPT	557	1119	1021	4,4	21,8	16,9	MF		2"	
45152-FP	45152-FPT	674	1236	1138	5,4	22,8	17,9	MF		2"	
-	4600-FPT	1391	-	1910	14,3	-	29,3	RA		1"1/4	
-	4610-FPT	960	-	1479	9,8	-	24,8	RA		1"1/4	
-	4635-FPT	864	-	1383	8,5	-	23,5	RA		1"1/4	
-	4660-FPT	1048	-	1567	9,8	-	24,8	MF		2"	
-	4680-FPT	769	-	1288	6,9	-	21,9	MF		2"	
-	46110-FPT	740	-	1259	5,7	-	20,7	MF		2"	
-	45152-FPT	877	-	1396	7,0	-	22,0	MF		2"	
-	4700-FPT	1240	-	1824	12,6	-	30,9	RA		1"1/4	
-	4715-FPT	1128	-	1712	11,0	-	29,3	RA		1"1/4	
-	4765-FPT	1416	-	2000	13,1	-	31,4	MF		2"	
-	47100-FPT	1040	-	1624	9,4	-	27,7	MF		2"	
-	47155-FPT	983	-	1567	7,5	-	25,8	MF		2"	
-	47157-FPT	1182	-	1766	9,5	-	27,8	MF		2"	
-	4802-FPT	1511	-	2195	15,2	-	37,9	RA		1"1/4	
-	4805-FPT	1853	-	2537	17,2	-	41,5	MF		2"	
-	4820-FPT	1360	-	2044	12,1	-	36,4	MF		2"	
-	4860-FPT	1287	-	1971	9,7	-	34,0	MF		2"	
-	4862-FPT	1520	-	2204	12,0	-	36,3	MF		2"	
-	49A2-FPT	1984	-	2749	20,0	-	36,9	RA		1"1/4	
-	4900-FPT	2411	-	3176	22,2	-	50,5	MF		2"	
-	4910-FPT	1758	-	2523	15,6	-	43,9	MF		2"	
-	4930-FPT	1652	-	2417	12,4	-	40,7	MF		2"	
-	4932-FPT	1928	-	2693	15,1	-	43,4	MF		2"	
-	410A02-FPT	2457	-	-	24,8	-	-	RA		1"1/4	

Not in scale



VALCO Vera™ range - SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS FOR DEEP WELLS for min. 6-inch wells COMPLETE WITH 2 POLE MOTORS TO NEMA STANDARD.

Applications

Suitable to replace standard surface pumps, carrying the advantages of lesser space needed, less maintenance and complete absence of noise.

For domestic drinking potable water, residential, commercial, industrial, agricultural, geothermal, civil applications, to pump and explore geothermal resources for fluids in spas, industry, agriculture and private, community and district heating and in all cases where it is requested to lift water out from below the ground from aquifers and to push it above with pressure: boreholes, bored wells, riverbanks, in-line pressure boosting, dewatering, sprinkler and drip irrigation systems, horticulture, greenhouses and gardening, air conditioning, water supply to offshore oil platforms, pressure boosting pumping / increasing water pressure, fire fighting, hydrant systems, deluge systems, fountains and water features, large rural irrigation schemes, turf watering installations and stock watering plants, washing and hobby uses, jet washing, station washing, dairy washdown, vegetable washing, dewatering of mines and excavations, level control (wellpoint) of groundwater waterbeds, sump drainage, artificial snow, solar power, monitor system, in-ground tank installation, underground water storage tanks installation, rainwater collection, etc.

Pumping of clean water in domestic applications from boreholes and wells, agricultural, industry, processing of drinking water distribution, water supply, firefighting, boosters, fountains, municipal water supply, mains and municipal boosting, sump drainage, dam drainage, mine water supply, river water extraction.



I-36063 Marostica (Vicenza) Italy
www.valco.eu

**Vera™ - VALCO BRAND SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS
FOR DEEP WELLS for min. 6-inch COMPLETE WITH 2 POLE MOTORS TO NEMA
STANDARD.**

Pump and motor construction data
with limits of use and operating conditions

Built-in check non-return valve to protect the pump against water hammer

OPERATING CONDITIONS (LIMITS OF USE)

Maximum depth of immersion m	150
Maximum temperature of pumped liquid °C	+35
Minimum speed of the liquid around the motor m/s	0,1 for 4"; 0,15 for 6"
Density of pumped liquid with γ =water specific gravity kg/dm ³	1
Type of pumped liquid	Neutral clean water and fluid chemically and mechanically non-corrosive, non-aggressive, non-abrasive, non-explosive with hardness and grading of silt 60 g/m ³
Installation type	Submerged at least 1 m

CONSTRUCTION MATERIALS

Pump casing	Stainless steel DIN/EN 1.4301 (AISI 304)
Motor casing	Stainless steel DIN/EN 1.4301 (AISI 304)
Suction strainer	Stainless steel DIN/EN 1.4301 (AISI 304)
Coupling flange to NEMA standard	Stainless steel DIN/EN 1.4301 (AISI 304)
Impeller/s	Technopolymer PPO
Diffusers	Technopolymer PPO + Stainless steel DIN/EN 1.4301 (AISI 304)
Wear ring	Technopolymer PPO + Stainless steel DIN/EN 1.4301 (AISI 304)
Delivery/ discharge head*	Stainless steel DIN/EN 1.4301 (AISI 304)
Shaft (pump side)	Stainless steel DIN/EN 1.4011 (AISI 420)
Shaft guiding stage bushes	Stainless steel DIN/EN 1.4404 (AISI 316L)
Mechanical seal	Silicon carbide, NBR, stainless steel AISI 304
Bolts and nuts	Stainless steel A2 class
Gaskets	NBR rubber

* With built-in check non-return valve to protect the pump against water hammer

MOTOR

Asynchronous submersible motor with shaft sealing system and coupling to NEMA standards. In oil bath and rewindable	
Number of poles	2
Insulation class	F
Degree of protection IP	68
Service	Continuous duty
Maximum tolerance (fluctuation) from the nominal voltage	±10%
Starts per hour max	30

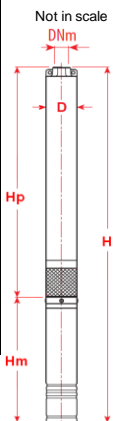
The overload motor protection must be provided by the user (we recommend the use of a control box)

I-36063 Marostica (Vicenza) Italy
www.valco.eu

**Vera™ - VALCO BRAND SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS
FOR DEEP WELLS for min. 6-inch COMPLETE WITH 2 POLE MOTORS TO NEMA
STANDARD.**

Pump and motor construction data
with limits of use and operating conditions

Types		Pump height Hp (mm)	Pump and motor height H 1 phase (mm)	Pump and motor height H 3 phase (mm)	Pump weight (Kg)	Pump and motor weight 1 phase (Kg)	Pump and motor weight 3 phase (Kg)	Impeller radial MF=mixed flow	RA=	Motor size
1 PH 230V 50Hz	3 PH 400V 50Hz									
6200-P4	6200-P4T	402	907	868	8,7	21,5	19,5	MF		4"
6300-P4	6300-P4T	478	1081	983	9,8	27,2	22,3	RA		4"
6335-P4	6335-P4T	459	1062	964	9,7	27,1	22,2	MF		4"
6345-P4	6345-P4T	408	1011	913	8,5	25,9	21	MF		4"
6410-P4	6410-P4T	516	1234	1076	10,4	34,5	25,4	RA		4"
6420-P4	6420-P4T	478	1196	1038	9,8	33,9	24,8	RA		4"
6422-P4	6422-P4T	516	1234	1076	10,8	34,9	25,8	MF		4"
6440-P4	6440-P4T	459	1177	1019	9,8	33,9	24,8	MF		4"
6455-P4	6455-P4T	408	1126	968	8,5	32,6	23,5	MF		4"
6457-P4	6457-P4T	408	1126	968	8,5	32,6	23,5	MF		4"
6510-P4	6510-P4T	592	1310	1217	11,8	35,9	30,1	RA		4"
6512-P4	6512-P4T	554	1272	1179	11,1	35,2	29,4	RA		4"
6523-P4	6523-P4T	630	1348	1255	12,4	36,5	30,7	RA		4"
6525-P4	6525-P4T	516	1234	1141	10,5	34,6	28,8	RA		4"
6527-P4	6527-P4T	573	1291	1198	11,1	35,2	29,4	MF		4"
6560-P4	6560-P4T	516	1234	1141	10,8	34,9	29,1	MF		4"
6580-P4	6580-P4T	468	1186	1093	9,4	33,5	27,7	MF		4"
6587-P4	6587-P4T	468	1186	1093	9,4	33,5	27,7	MF		4"
-	6605-P4T	744	-	1469	14,4	-	38,7	RA		4"
-	6620-P4T	630	-	1355	12,4	-	36,7	RA		4"
-	6630-P4T	592	-	1317	11,8	-	36,1	RA		4"
-	6640-P4T	554	-	1279	11,1	-	35,4	RA		4"
-	6650-P4T	630	-	1355	12,9	-	37,2	MF		4"
-	6680-P4T	528	-	1253	10,3	-	34,6	MF		4"
-	6682-P4T	528	-	1253	10,2	-	34,5	MF		4"
-	6705-PT	895	-	1555	16,9	-	62,9	RA		6"
-	6720-PT	744	-	1404	14,3	-	60,3	RA		6"
-	6723-PT	858	-	1518	17	-	63	MF		6"
-	6740-PT	744	-	1404	14,9	-	60,9	MF		6"
-	6775-PT	588	-	1248	11,2	-	57,2	MF		6"
-	6777-PT	588	-	1248	11,2	-	57,2	MF		6"
-	67110-PT	528	-	1188	10,2	-	56,2	MF		6"
-	6800-PT	1086	-	1786	22,2	-	70,2	RA		6"
-	6810-PT	972	-	1672	18,3	-	66,3	RA		6"
-	6825-PT	858	-	1558	16,3	-	64,3	RA		6"
-	6845-PT	858	-	1558	17,1	-	65,1	MF		6"
-	6870-PT	648	-	1348	12,1	-	60,1	MF		6"
-	68100-PT	648	-	1348	12	-	60	MF		6"
-	6905-PT	1200	-	1965	24,2	-	76,2	RA		6"
-	6920-PT	972	-	1737	18,2	-	70,2	RA		6"
-	6927-PT	1143	-	1908	22,5	-	74,5	MF		6"
-	6940-PT	972	-	1737	19,2	-	71,2	MF		6"
-	6980-PT	768	-	1533	13,9	-	65,9	MF		6"
-	69115-PT	708	-	1473	12,9	-	64,9	MF		6"
-	6A05-PT	1404	-	2224	27,7	-	84,7	RA		6"
-	6A15-PT	1086	-	1906	22,2	-	79,2	RA		6"
-	6A40-PT	1086	-	1906	21,4	-	78,4	MF		6"
-	6A70-PT	828	-	1648	15	-	72	MF		6"
-	6A95-PT	768	-	1588	13,8	-	70,8	MF		6"
-	6B00-PT	1693	-	2513	41	-	99	RA		6"
-	6B15-PT	1200	-	2020	24,1	-	82,1	RA		6"
-	6B17-PT	1480	-	2300	23,4	-	81,4	MF		6"
-	6B50-PT	1200	-	2020	23,4	-	81,4	MF		6"
-	6B52-PT	888	-	1708	15,9	-	73,9	MF		6"
-	6B120-PT	828	-	1648	14,8	-	72,8	MF		6"
-	6C00-PT	1987	-	2880	47,5	-	111,5	RA		6"
-	6C15-PT	1480	-	2363	28,9	-	92,9	RA		6"
-	6C23-PT	1764	-	2647	32,6	-	96,6	MF		6"
-	6C40-PT	1480	-	2363	27,7	-	91,7	MF		6"
-	6C42-PT	1068	-	1951	18,6	-	82,6	MF		6"
-	6C115-PT	1008	-	1891	15,7	-	79,7	MF		6"
-	6D00-PT	2301	-	3254	54,1	-	125,1	RA		6"
-	6D05-PT	1807	-	2760	43,1	-	114,1	RA		6"
-	6D16-PT	2187	-	3140	49,1	-	120,1	MF		6"
-	6D25-PT	1707	-	2660	31,5	-	102,5	MF		6"
-	6D27-PT	1248	-	2201	21,5	-	92,5	MF		6"
-	6D90-PT	1128	-	2081	17,8	-	88,8	MF		6"
-	6E0J-PT	2529	-	3547	59	-	138	RA		6"
-	6E00-PT	1987	-	3015	47,2	-	126,2	RA		6"
-	6E01B-PT	2472	-	3490	54,7	-	133,7	MF		6"
-	6E10-PT	2073	-	3091	46,9	-	125,9	MF		6"
-	6E12-PT	1480	-	2498	27,6	-	106,6	MF		6"
-	6E90-PT	1308	-	2326	21,9	-	100,9	MF		6"
-	6F0B-PT	2187	-	3283	51,3	-	138,3	RA		6"
-	6F0D-PT	2861	-	3959	62,5	-	149,5	MF		6"
-	6F15-PT	2301	-	3399	51,2	-	138,2	MF		6"
-	6F40-PT	1660	-	2758	30,6	-	117,6	MF		6"
-	6F90-PT	1480	-	2578	26,8	-	113,8	MF		6"
-	6G0AB-PT	2453	-	3686	57	-	156	RA		6"
-	6G0AD-PT	3431	-	4664	73,7	-	172,7	MF		6"
-	6G00-PT	2757	-	3990	59,8	-	158,8	MF		6"
-	6G25-PT	1959	-	3192	41,2	-	140,2	MF		6"
-	6G80-PT	1779	-	3012	37,1	-	136,1	MF		6"



Max diameter of the electric pumps D: 140 mm
DNm: G 3"