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

C € Made in Italy

Vera™ Range VALCO BRAND SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS FOR DEEP WELLS for min. 3-inch COMPLETE WITH 2 POLE MOTORS TO NEMA STANDARD.

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

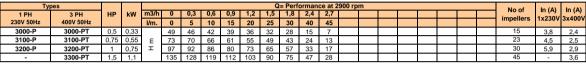
Vera™ - SUBMERSIBLE MULTISTAGE BOREHOLE ELECTRIC PUMPS FOR DEEP WELLS for min. 3inch COMPLETE WITH 2 POLE MOTORS TO NEMA STANDARD.

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 $waterbeds, sump \ drainage, artificial \ snow, solar \ power, \ monitor \ system, \ in-ground \ tank \ installation, underground \ water \ storage \ tanks \ installation, \ rainwater \ storage \ tanks \ storage \ tanks \ installation, \ rainwater \ storage \ tanks \ stora$ 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.



| OPERATING CONDITIONS (LIMITS OF USE) | 100 | | | | |
|--|--|--|--|--|--|
| Maximum depth of immersion m | 100 | | | | |
| Maximum temperature of pumped liquid °C | +35 | | | | |
| Minimum speed of the liquid around the motor m/s | 0,08 | | | | |
| Maximum working pressure (max allowed pressure in the pump casing) kPa/bar | Max pressure of the pump | | | | |
| Density of pumped liquid with y=water specific gravity kg/dm3 | 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 40g/m3 | | | | |
| Presence of solids in suspension | No | | | | |
| Installation type | Submerged at least 1 m | | | | |

| CONSTRUCTION MATERIALS | [a, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | | | | | |
|--|---|--|--|--|--|--|
| Motor casing | Stainless steel DIN/EN 1.4301 (AISI 304) | | | | | |
| Pump casing | Stainless steel DIN/EN 1.4301 (AISI 304) | | | | | |
| Delivery / discharge head with built-in check non-return valve | Brass* | | | | | |
| Coupling flange to NEMA standard | Brass* | | | | | |
| Suction strainer | Stainless steel DIN/EN 1.4016 (AISI 430 2B) | | | | | |
| Impeller/s | Noryl® | | | | | |
| Diffuser/s (wear ring) | Technopolymer self lubricating | | | | | |
| Shaft (pump side) | Stainless steel DIN/EN 1.4104 (AISI 430 F) | | | | | |
| Mechanical seal | Carbon-graphite ceramic** with labyrinth seal | | | | | |
| | with a sand slinger | | | | | |
| Bolts and nuts in contact with the liquid | Stainless steel A2 class | | | | | |
| Gaskets | NBR rubber | | | | | |
| | | | | | | |

^{*}Optional on demand in stainless steel

Optional on demand in silicon carbide - silicon carbide

| MOTOR | | | | | |
|--|-----------------|--|--|--|--|
| Asynchronous Electric motor rewindable in non-toxic liquid bath cooled by pumped liquid and coupling to NEMA standards | | | | | |
| Number of poles | 2 | | | | |
| Insulation class | В | | | | |
| 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)

Supplied as standard with 1,75 m electric cable

| | | Dimensions in mm | | | | Weight in Kg | | | |
|---------|------|------------------|------|-----|----|--------------|------|------|-------|
| Types | DNm | н | Нр | Hm | Dp | Dm | Mot. | Pump | Total |
| 3000-P | G 1" | 957 | 580 | 377 | | 72 | 6,0 | 3,3 | 9,3 |
| 3100-P | | 1177 | 780 | 397 | | | 6,4 | 4,4 | 10,8 |
| 3200-P | | 1416 | 1000 | 416 | | | 6,8 | 5,6 | 12,4 |
| 3000-PT | | 957 | 580 | 377 | 74 | | 6,0 | 3,3 | 9,3 |
| 3100-PT | | 1157 | 780 | 377 | | | 6,1 | 4,4 | 10,5 |
| 3200-PT | | 1397 | 1000 | 397 | | | 6,4 | 5,6 | 12,0 |
| 3300-PT | | 1796 | 1380 | 416 | | | 6,8 | 7,6 | 14,4 |

