VECTOR ELECTRIC INTERNATIONAL

# NORYL SUBMERSIBLE PUMPS

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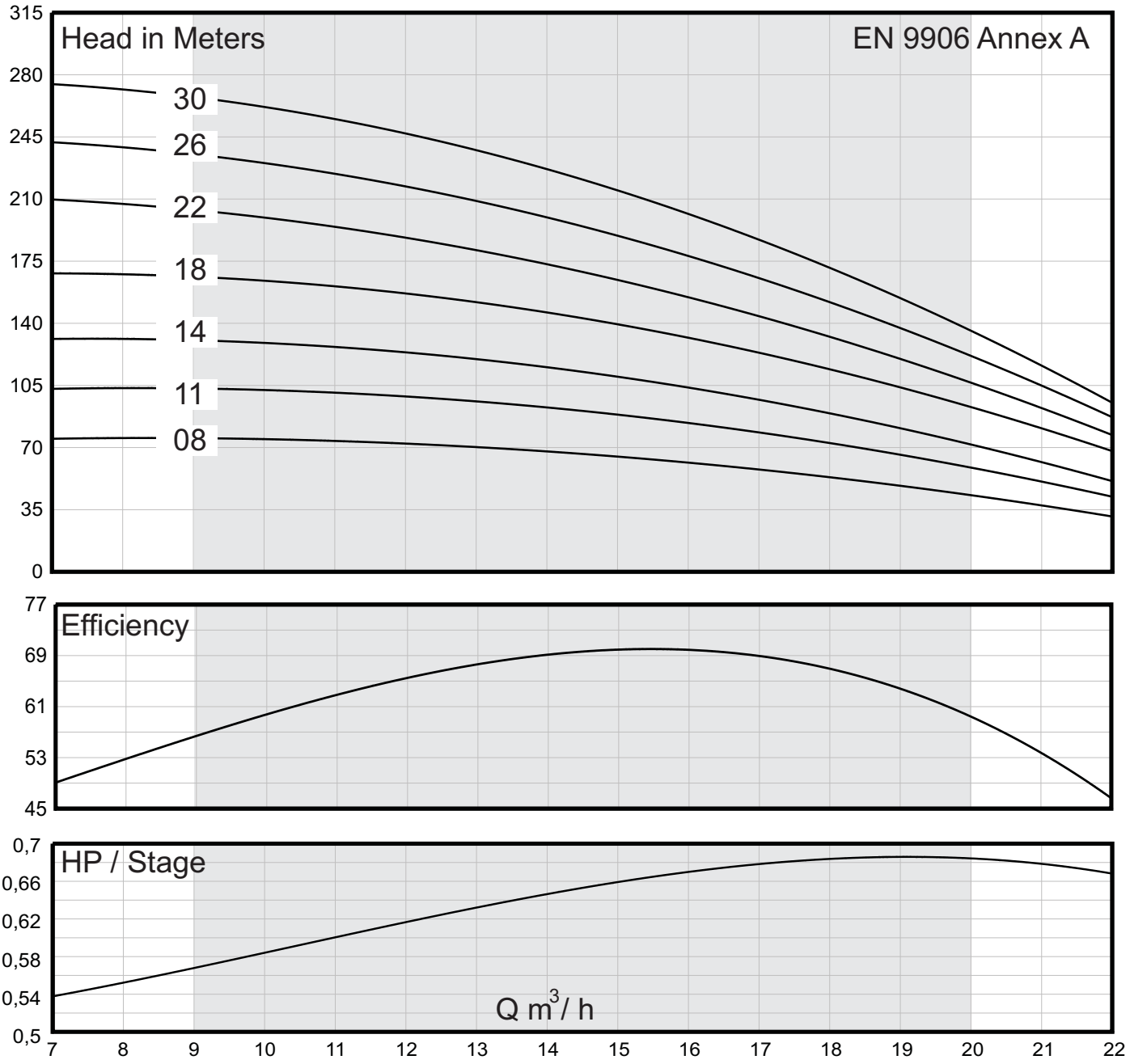
# VE 6 N 42

## Submersible Pumps




| TYPE & STAGES | POWER | | l/sec | 0,0 | 1,9 | 2,2 | 2,5 | 2,7 | 2,8 | 3,0 | 3,3 | 3,6 | 3,9 | 4,0 | 4,4 | 4,7 | 5,0 | 5,3 | 5,6 | 6,1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | HP | kW | $m^3/h$ | 0,0 | 7,0 | 8,0 | 9,0 | 9,6 | 10,1 | 10,8 | 12,0 | 13,0 | 14,0 | 14,4 | 16,0 | 17,0 | 18,0 | 19,0 | 20,0 | 22,0 |
| VE 6 N 42 / 08 | 5,5 | 4 | Head In Meters | 83 | 77 | 75 | 74 | 74 | 74 | 73 | 71 | 70 | 69 | 67 | 62 | 58 | 53 | 48 | 42 | 31 |
| VE 6 N 42 / 11 | 7,5 | 5,5 | | 115 | 105 | 104 | 102 | 102 | 101 | 100 | 97 | 96 | 93 | 92 | 85 | 79 | 72 | 65 | 58 | 42 |
| VE 6 N 42 / 14 | 10 | 7,5 | | 144 | 132 | 131 | 130 | 129 | 128 | 126 | 123 | 120 | 116 | 115 | 103 | 96 | 89 | 80 | 70 | 52 |
| VE 6 N 42 / 18 | 13 | 9,2 | | 186 | 169 | 168 | 165 | 165 | 163 | 161 | 157 | 152 | 146 | 145 | 131 | 123 | 112 | 103 | 94 | 68 |
| VE 6 N 42 / 22 | 15 | 11 | | 230 | 209 | 207 | 202 | 201 | 199 | 197 | 190 | 182 | 173 | 171 | 154 | 141 | 129 | 118 | 108 | 79 |
| VE 6 N 42 / 26 | 18 | 13 | | 266 | 242 | 239 | 233 | 231 | 229 | 225 | 218 | 212 | 201 | 198 | 176 | 162 | 150 | 135 | 122 | 90 |
| VE 6 N 42 / 30 | 20 | 15 | | 303 | 275 | 271 | 265 | 263 | 261 | 258 | 251 | 241 | 230 | 225 | 199 | 182 | 167 | 151 | 132 | 103 |

# VE 6 N 42
## Submersible Pumps

### TECHNICAL SPECIFICATIONS

**LIQUID BEING POMPED**
Chemically and mechanically non aggressive.
Temperature min=0 C max=40 C.
Maximum allowable solid quantity = 25 g/$m^3$
Maximum allowable solid dimension: Max 2 mm

**OPERATING RANGE AT 2900 RPM:**
Power = 5,5 HP - 20 HP
Qmax= 22 $m^3$/ h

**AT THE BEST EFFICIENCY POINT:**
Q= 16 $m^3$/ h
H= 199 m

**MAXIMUM EXTERNAL PUMP DIAMETER:**
145 mm (Including cable guard)

**OUTLET DIAMETER:**
2 1/2"

**MAXIMUM DEPTH OF APPLICATION:**
Up to 400 m below the water level

**MAXIMUM WORKING PRESSURE:**
40 atm

**MINIMUM LIQUID LEVEL:**
800 mm

**MAXIMUM HEAD:**
275 m

**IMPELLER TYPE:**
Radial

### MATERIAL LIST

| PART NAME | MATERIAL |
|---|---|
| Shaft | Stainless steel (AISI 304) |
| Coupling | Stainless steel (AISI 420) |
| Coupling screw | Stainless steel (AISI 304) |
| Bushing | Stainless steel (AISI 304) |
| Support | Cast Iron (GG25) |
| Diffusor cover | Noryl |
| Impeller | Noryl |
| Diffuser | Noryl |
| Bearing housing | Resine |
| Bearing | Resine |
| Bushing | Noryl |
| Bushing | Stainless steel (AISI 420) |
| Washer | Stainless steel (AISI 304) |
| Screw | Stainless steel (AISI 304) |
| Retainer | Stainless steel (AISI 304) |
| Valve housing | Stainless steel (AISI 304) |
| Valve | Stainless steel (AISI 304) |
| Oring | Rubber |
| Housing | Stainless steel (AISI 304) |
| Valve body | Cast Iron (GG25) |
| Strainer | Stainless steel (AISI 304) |
| Cable guard | Resine |

### OPTIONS

Motor-pump : Cooling shroud

### INFORMATIONS

Rotation: Counterclockwise
Shaft End: NEMA Standard
Shaft Diameter: Hexagonal 17 mm

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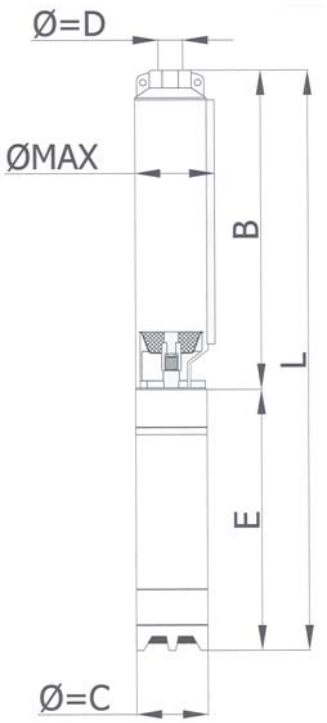


| TYPE & STAGES | POWER | | PUMP & MOTOR DIMENSIONS ( mm ) | | | | | PUMP & MOTOR WEIGHT ( kg ) | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | HP | kW | L | E | B | Ø GROUP | Ø = D | MOTOR | PUMP | TOTAL |
| VE 6 N 42 / 08 | 5,5 | 4 | 1178 | 618 | 560 | 145 | 2 1/2" | 45 | 11 | 56 |
| VE 6 N 42 / 11 | 7,5 | 5,5 | 1415 | 650 | 765 | 145 | 2 1/2" | 50 | 13 | 63 |
| VE 6 N 42 / 14 | 10 | 7,5 | 1575 | 690 | 885 | 145 | 2 1/2" | 55 | 15 | 70 |
| VE 6 N 42 / 18 | 12,5 | 9,2 | 1840 | 730 | 1110 | 145 | 2 1/2" | 60 | 18 | 78 |
| VE 6 N 42 / 22 | 15 | 11 | 2050 | 780 | 1270 | 145 | 2 1/2" | 65 | 21 | 86 |
| VE 6 N 42 / 26 | 17,5 | 12,7 | 2250 | 820 | 1430 | 145 | 2 1/2" | 70 | 23 | 93 |
| VE 6 N 42 / 30 | 20 | 15 | 2470 | 880 | 1590 | 145 | 2 1/2" | 77 | 25 | 102 |