



TECHNICAL DATA

Performance range: flow up to 75 m³/h and max head of 670 m

Max. quantity of sand/silt: 50g/m³

Max. ambient temperature: 30°C (50°C available on request)

Outlet connection diameter (inside threaded): SS6 A – SS6 B : 2 ½"
SS6 C : 3"
SS6 D – SS6 E : 4"

Nr of starts: refer to the motor specification

Motor Cooling flow: refer to the motor specification

Installation: horizontal or vertical, refer to the motor specification

APPLICATIONS

Multistage mixed-flow borehole electric pumps, completely made in stainless steel (AISI 304L or AISI 316 on request), usable for wells from a minimum diameter equal to pump size or greater and capable of developing a wide range of Flows and Heads.

These pumps can be used in a wide range of lifting, distributing, and pressuring application: domestic and general water supply; sprinkler and drip irrigations systems; fire-fighting installations; lowering of groundwater level; industrial supplies as mining, hot springs, autoclaves and tanks.

These pumps are suitable both for standard water and for aggressive water applications by choosing the proper manufacturing material (AISI 304L or AISI 316) both for hydraulic part and motor.

Special version of motors with PE2+PA windings can be used on request for high-temperature water applications up to maximum 50°C.

Pumps can be installed both vertically and horizontally simply by removing the non-return valve and adding a cooling sleeve to the suction case (the only remark is to check the motor applicability to horizontal operations, refer to the motor specifications section).

CONSTRUCTION FEATURES OF PUMP

Mixed flow pumps with diffusers, impellers, brackets, suction case and discharge case completely made of stainless steel AISI 304 in order to provide maximum strength, durability, wear and tear resistance.

The impellers are balanced and locked to the shaft with a specially shaped collet and nut coupling, in order to guarantee ease-to-assembly feature and avoid vibration sensitive malfunctions and noise increase during rotation.

Rubber bearings that drive the shaft are water lubricated and have sand channels to make enable the sand particles leave the pump with the pumped liquid (maximum permissible sand content 50 gr/m³).

Built-in non returned valve provided in order to minimize local friction losses.

Stainless steel strainer provided in order to prevent particles over a certain size from entering the pump.

Coupling with 6", 8" or 10" motor depending on the power requested by hydraulic part:

- 6GF: 6" canned submersible motor
- TR6: 6" rewindable submersible motor
- TR8: 8" rewindable submersible motor
- TR10: 10" rewindable submersible motor

For inverter application refer to the detailed motor specification.

ON REQUEST:

- Pump body stainless steel AISI 316 for aggressive water application
- Impellers stainless steel AISI 316
- Motors in full stainless steel AISI 316 for aggressive water application
- Star/Delta starting version
- Special version of the motor for high temperature application
- Non-standard power coupling

PERFORMANCE 50 Hz - 2 POLES

| MODEL | ELECTRICAL DATA | | HYDRAULIC DATA | | | | | | | | | | STANDARD MOTOR COUPLING | |
|---------|-----------------|----|--------------------|-----|-------|-------|-----|-------|-------|------|--------|--------|-------------------------|------|
| | P2 NOMINAL | | Q=m ³ h | 0 | 20 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | | 75 |
| | kW | HP | Q=l/min | 0 | 333,3 | 666,6 | 750 | 833,3 | 916,6 | 1000 | 1083,3 | 1166,6 | | 1250 |
| SS6E 18 | 37 | 50 | H (m) | 270 | 231 | 187 | 178 | 170 | 161 | 151 | 138 | 122 | 102 | 6" |
| SS6E 19 | 37 | 50 | | 285 | 244 | 198 | 188 | 179 | 170 | 159 | 146 | 129 | 107 | 6" |
| SS6E 20 | 37 | 50 | | 300 | 257 | 208 | 198 | 189 | 179 | 167 | 154 | 136 | 113 | 6" |
| SS6E 21 | 37 | 50 | | 315 | 269 | 219 | 208 | 198 | 188 | 176 | 161 | 143 | 119 | 6" |
| SS6E 22 | 45 | 60 | | 330 | 282 | 229 | 218 | 207 | 197 | 184 | 169 | 150 | 124 | 8" |
| SS6E 23 | 45 | 60 | | 345 | 295 | 239 | 228 | 217 | 205 | 193 | 177 | 157 | 130 | 8" |
| SS6E 24 | 45 | 60 | | 360 | 308 | 250 | 238 | 226 | 214 | 201 | 184 | 163 | 135 | 8" |
| SS6E 25 | 55 | 75 | | 375 | 321 | 260 | 248 | 236 | 223 | 209 | 192 | 170 | 141 | 8" |
| SS6E 26 | 55 | 75 | | 390 | 334 | 271 | 258 | 245 | 232 | 218 | 200 | 177 | 147 | 8" |
| SS6E 27 | 55 | 75 | | 405 | 346 | 281 | 268 | 255 | 241 | 226 | 208 | 184 | 152 | 8" |
| SS6E 28 | 55 | 75 | | 420 | 359 | 292 | 278 | 264 | 250 | 234 | 215 | 191 | 158 | 8" |
| SS6E 29 | 55 | 75 | | 435 | 372 | 302 | 287 | 273 | 259 | 243 | 223 | 197 | 164 | 8" |
| SS6E 30 | 55 | 75 | | 450 | 385 | 312 | 297 | 283 | 268 | 251 | 231 | 204 | 169 | 8" |