



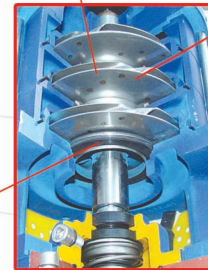
New Phenomenon In Fluid Technology
www.spico.ir

SPI CO

6 Months Guaranty



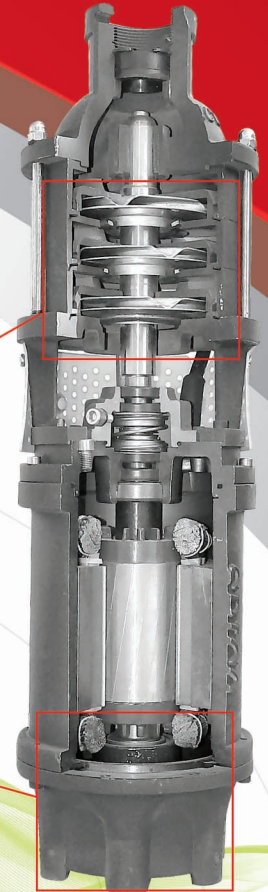
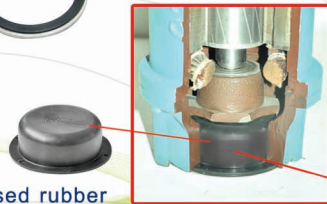
Steel impeller



rubber ring



compressed rubber



SO

2" SUBMERSIBLE DRAINAGE PUMPS USED TO PUMP CLEAN WATER

APPLICATION AND ABILITIES :

Submersible drainage pumps 2" model SO, supplied with the stainless steel impeller and silicone/carbide seals, are designed and manufactured according to the quality management standard ISO 9001-2008, the international European standard CE and complied with the Directives BS-EN-ISO 9906, EN-ISO 60335-2-41, EN-ISO 60335-1, which are compatible with the Iranian national standards of ISIRI 1562-2-41, ISIRI 1562-1, ISIRI 7817 and also the laboratory standard ISO - IEC 17025-2005. pump model SO is designed to transfer water from shallow wells and to be used in agricultural, industrial and domestic purposes.





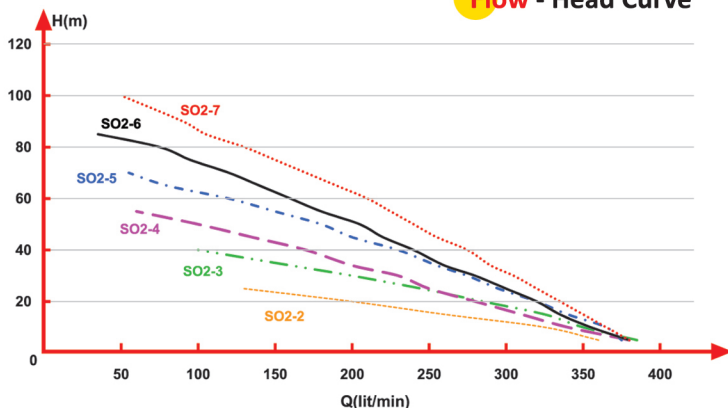
TECHNICAL FEATURES

- Aiming at solving the problems related to agricultural industry , 2" Submersible drainage pumps of **SPICO 220/380V** , are produced with a unique design and structure .
 - Impeller is made of stainless steel .
 - At the time of turning on and turning off the pump some destructive strokes are conveyed to the pump and to the joined pipe, which after some time the pipe may be disconnected from pump. **SPICO Co.** has designed bronze screws on both sides of delivery head so that by tightening them the pipe won't be released.
 - all spico diffusers have been equipped with rubber ring to prevent impeller and diffuser from corrosion.
 - Pump casing and the main components are made of the special cast iron of Ductile , high resistance to stroke and corrosion .
 - All cast iron parts are covered by a special paint of Epoxy (the paint used in coating Ships' hulks) which creates a good resistance to oxidation
 - All casting parts have been alloyed by professional experts to avoid any pores or minute leaks in them. However, **SPICO** performs Porosity Impregnation process for main casting parts by using special machines and resin. So the electro motor penetrability to water reaches zero.
 - Using anti-abrasion seals (Silicon Carbide) with high quality to increase pump lifetime .
 - Using stainless steel shaft and screws to resist against oxidation and corrosion
 - Using winding stators and rotors from the **METRA S.P.A** company of Italy with thermic overload protection from the **Thermic** company of Germany for single phase pumps, capacitors from the **Ducati S.P.A** company of Italy , mechanical seals of **Umbra S.P.A** , spring washer from the **Filtomatic S.P.A** company of Italy and bearings from the Nachi company of Japan increases the quality of the **SPICO** pumps and qualifies products according to European **CE** standard.
 - To supply high quality and more reliable pumps and to increase the mechanical seals lifetime, **SPICO** has applied a special chamber full of oil between pump and electro motor which are sealed by using two mechanical seals and two oil seals which the oil can be controlled by an Allen screw no.8.
 - All **SPICO** products have a serial no., engraved on pump casing, which is known as their identification no. This number specifies the production file and the technical ID of each pump which are kept in Company filing system.
 - All **SPICO** products , according to attached warranty terms , are guaranteed for six month from invoice date or 12 month from the manufacturing date of product.
- POINT :** To avoid bursting electromotor , a compressed rubber is placed under electromotor to transfer the pressure outwards when no control panel is used and the power is on even though the electromotor is burnt out for any reason .

ATN : It is recommended to use the special control panel designed to protect and start the pump.

| | SO 2-7-3 | SO 2-6-3 | SO 2-5-3 | SO 2-4-3 | SO 2-4-1 | SO 2-3-3 | SO 2-3-1 | SO 2-2-1 | |
|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Voltage | 380 | 380 | 380 | 380 | 220 | 380 | 220 | 220 | V |
| delivery size | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | inch |
| max head | 105 | 90 | 75 | 60 | 60 | 45 | 45 | 30 | m |
| head | 30-95 | 10-75 | 10-65 | 10-55 | 10-55 | 1-40 | 1-40 | 1-25 | m |
| max flow | 310-55 | 350-75 | 350-75 | 350-60 | 350-60 | 400-100 | 400-100 | 400-115 | Q(l/min) |
| power | 5.5 | 4 | 3 | 2.2 | 3 | 2.2 | 2.2 | 2 | P(KW) |
| max current | 10 | 9 | 7.2 | 5 | 18 | 5 | 16 | 11.5 | A |
| max motor speed | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 | rpm |
| Capacitor | -- | -- | -- | -- | 100 | -- | 100 | 50 | µF |
| weight | 51 | 46 | 44.5 | 40.5 | 41.5 | 38 | 39 | 36 | KG |

Flow - Head Curve



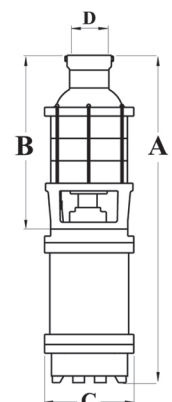
Impeller Model: S



Dimension

Unit : mm

| D | C | B | A | PUMP MODEL |
|----|-----|-----|-----|------------|
| 57 | 175 | 280 | 590 | SO 2-2 |
| 57 | 175 | 315 | 625 | SO 2-3 |
| 57 | 175 | 350 | 660 | SO 2-4 |
| 57 | 175 | 385 | 695 | SO 2-5 |
| 57 | 175 | 420 | 730 | SO 2-6 |
| 57 | 175 | 455 | 810 | SO 2-7 |



SO3-2-3

- Import Voltage 380V/220V
- Number Impeller
- opening Size (Inch)
- Pump Model

