

Distribution & Conditioning Systems & Equipment & Components: UNSPC Code: 40

Major Category - Industrial Pumps and Compressors; UNSPC Code: 4015

Product Category: PUMPS UNSPSC : 401515

Self Priming Centrifugal Pump UNSPSC : 40151519 ---- ITC (HS)-84137099

| S. No. | Parameter | Type of Field | Value 1 | Value 2 | Value 3 | Value 4 | Value 5 | Value 6 | Remarks/Validation | Unit |
|---------------------|--|---------------|---|---------------------------------|---------|-----------------------------|---------|---------|--------------------|------|
| GENERIC | | | | | | | | | | |
| 1 | Application | CH | Centrifugal Pump for handling various types of liquids other than clear,cold and fresh water, Handling chemicals, effluents, sewage, ash-water. De-watering foundation, trenches and pits. Flood water handling. Pumping water from docks, ports, vessels. De-watering from basements, multi-storeys, shopping malls, godowns. Cooling water for marine engines and shovels | | | | | | M | |
| 2 | Pump Specification | CH | Rotodynamic Special purpose pumps in compliance to IS 5120 Latest | | | | | | M | |
| 3 | Pump Type | CH | Self Priming Bare shaft Pump | Self Priming Motor Coupled Pump | | Self Priming Monoblock Pump | | | G | |
| 4 | Size (Dia) of solids in liquid to be handled | N | 7 | 8.5 | 10.5 | 14.5 | 15.5 | 23 | G | mm |
| | | | 34 | 40 | 60 | 65 | | | | |
| 5 | Suction Pipe size in mm | N | 40 | 50 | 80 | 100 | 150 | 200 | G | mm |
| 6 | Delivery pipe size in mm | N | 40 | 50 | 80 | 100 | 150 | 200 | G | mm |
| 7 | Speed in RPM | N | 1450 | 2760 | 2900 | | | | F | RPM |
| CONSTRUCTION | | | | | | | | | | |
| 1 | Casing | CH | Robust in construction and tested to withstand a hydrostatic pressure of 1.5 times of maximum discharge pressure experienced | | | | | | M | |
| 2 | Casing Ring | CH | yes | | | | | | M | |
| 3 | Bearing Cover | CH | yes | | | | | | M | |
| 4 | Bearing pedestal | CH | yes | | | | | | M | |
| 5 | Deflector | CH | Stainless Steel as per AISI - 316L | | | | | | M | |
| 6 | Grease Nipple | CH | yes | | | | | | M | |

| | | | | | | | | | | | |
|----------------------|--|----|---|-------------|--|-----------------|--------|----|----|-------|--|
| 7 | Impeller Diameter in mm | CH | yes | | | | | | M | | |
| 8 | Impeller Key | CH | yes | | | | | | M | | |
| 9 | Impeller nut | CH | yes | | | | | | M | | |
| 10 | Mechanical seal, rotating element | CH | yes | | | | | | M | | |
| 11 | Mechanical seal, stationary element | CH | yes | | | | | | M | | |
| 12 | Non Return valve housing | CH | yes | | | | | | M | | |
| 13 | Pump Shaft | CH | Carbon Steel | | | Stainless Steel | | | | F | |
| 14 | Impeller Type | CH | Non clog impeller to handle suspended soft solids | | | | | | | M | |
| 15 | Impeller Material | CH | Stainless Steel as per AISI - 316L | | Cast Iron | | Bronze | | G | | |
| 16 | Motor Body | | Cast Iron | | | | | NA | F | | |
| 17 | Motor Type | CH | AC Motor ISI Marked 1 Phase , 230 V ± 10%, 50Hz±3%Hz | | AC Motor ISI Marked 3 Phase , 415 V ± 10%, 50Hz±3%Hz | | | NA | G | | |
| 18 | Motor rating in KW | N | 0.37 ≤N≤19.5 | | | | NA | G | KW | | |
| 19 | Motor Enclosure | CH | Totally enclosed drip proof | | | | NA | F | | | |
| 20 | Class of Insulation | CH | F Class (Motor coupled only) | B / F Class | | | | NA | F | | |
| 21 | Degree of Protection | CH | IP 55 | IP 44 | | | | NA | F | | |
| PERFORMANCE | | | | | | | | | | | |
| 1 | Discharge Capacity in litres/second | N | 2.7≤N≤80 | | | | | | G | LPS | |
| 2 | Total head in metres | N | 6≤N≤30 | | | | | | G | meter | |
| CERTIFICATION | | | | | | | | | | | |
| 1 | Availability of Type Test Report to prove conformity of declared parameters to the specification from any ILAC/NABL accredited/Central Govt lab as per specification | CH | | | | | | | | M | |
| 2 | Test certificate No and date | CH | | | | | | | | M | |
| 3 | Name of the Lab where test Conducted | CH | | | | | | | | M | |
| 4 | Test Report to be furnished to the buyer on demand | CH | yes | | | | | | | M | |
| 5 | Warranty Period | N | 1 | 3 | 5 | | | | G | years | |