Submersible Wastewater Pumps with single Vane impeller
3” Discharge – 2” Solids

TP 53 M

Application
The HOMA TP 53 Series of submersible pumps are ideal for wastewater and sewage service in residential, commercial and industrial applications. The TP 53 is also excellent for drainage applications where large solids are present.

Typical Fluids Handled Are:
- Clear and Drainage Water
- Effluent and Sewage with Soft Solids
- Liquids to 140 F can be handled intermittantly
- PH Range 5 – 9 with Specific Gravity to 1.1

TP 50 Series pumps are typically used in:
- Residential and Commercial Sewage
- Industrial Wastewater
- Effluent Distribution Systems
- Agricultural Wastewater
- Pond or Lake Water
- Processing Plants
- Optional Factory Mutual (FM) label for Class I, Div 1 EX construction.

Features
- Integral Lift Handle is arched to permit self centering of lifting device
- Cast Iron Construction with Epoxy Coating for maximum corrosion resistance
- Extra Long Replaceable power cable of 33’ length is retained and sealed with a strain relief gland
- Standard Lower Seal material is Silicon Carbide
- Shown: Integral Mounting Stand for transportable applications. Optional: HOMA AutoCoupling System for permanent installations
- Oil Filled Seal Chamber positively lubricates seals and permits a seal leakage probe to be installed
- Single Vane impeller for large solids handling
- Upper and Lower High Capacity Ball Bearings assure long life and reliability
- Motor windings provided with Class H insulation and fully protected by embedded auto reset thermal switches
- Replaceable volute wear ring in single vane pump permits hydraulic efficiency to be restored for long service life
Motor Construction

Motor Type: enclosed submersible
NEMA Insulation Code: class H
Service Factor: 1.15
Standard Cable Length: 33 ft
Available Motor Voltages:
1 Phase: 115 V, 200 V, 230 V
3 Phase: 200 V, 220 V, 230 V, 380 V, 460 V, 575 V
Optional Explosion Proof construction:
Factory Mutual approved for Class I, Div. 1, Group C & D.

Materials

Motor housing, volute and impeller:
Cast iron ASTM A 48, Class 40B
Mechanical seals – impeller side:
Silicon Carbide vs Silicon Carbide
Shaft seal - motor side:
Other models: mechanical seal (Silicon Carbide vs Silicon Carbide)
TP53M16...M24...Lip Seal
O-Rings: Nitrile Rubber
Upper bearings:
Deep groove ball bearing
Lower bearings:
Other models:
Double row angular ball bearing
TP53M16...M24 (not FM models):
Deep groove Ball Bearing
Power cable sheathing:
Nitrile Rubber
Shaft: AISI 430 F
Fasteners: AISI 304 SS

Technical Data

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