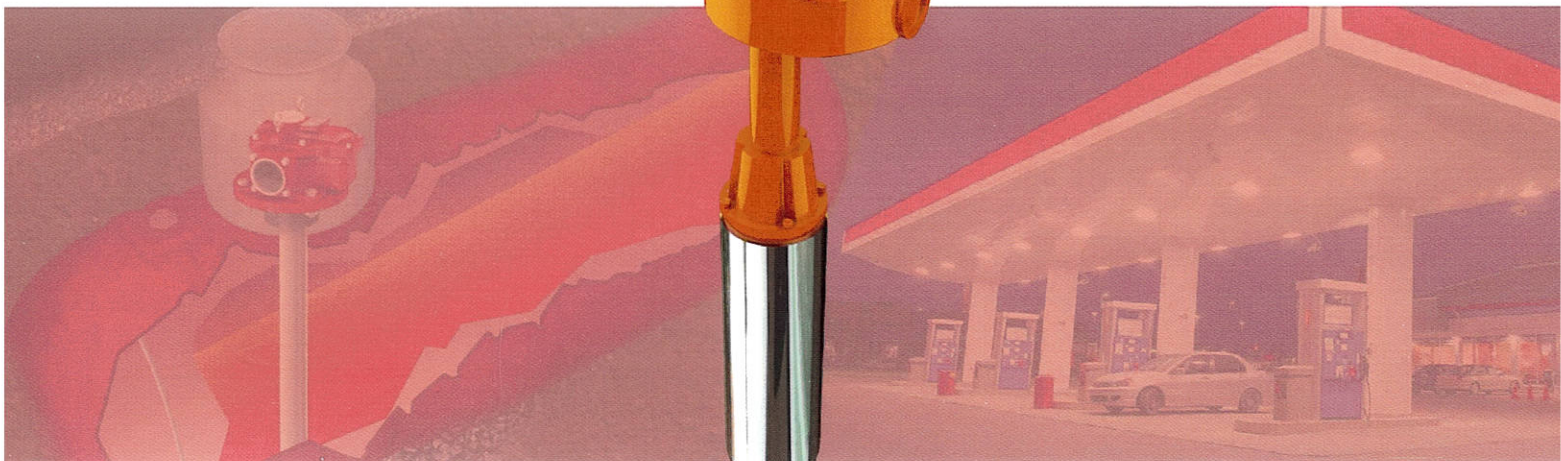
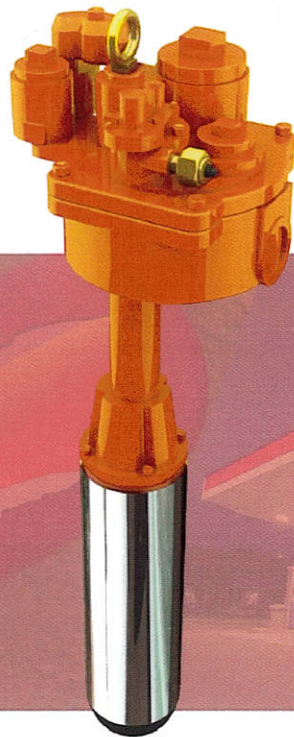


4008-500-517

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Red-Robe Submersible Pump Series Make Refuel More Efficient



Safety

Energy-Efficient

Selected by 100,000 Fuel Stations

Red-Robe which has been applied to 100,000 Fuel Stations around the world can create more economic benefits.

Red-Robe Submersible pump

By turbo-charging technology to pressurize oil, Red-Robe Submersible Turbine Pump uses this difference to pressure oil through the pipeline to the oil end. Due to high efficiency and energy saving, can create economic benefits that has been applied 100,000 gas stations around the world. It's started in the 1980s and has been well received in the world.



Characteristic

1. The simple design of pumping oil can minimize the pressure loss and maximize the effective flow.
2. The overall pump and motor components are portable and have the power to drive the extractor.
3. When pulling out the pump pipe and motor components, the automatic unloading can prevent the overflow.
4. The pump head integrates all connected parts, making the installation and maintenance simply and safely.
5. The enhanced check valve can greatly facilitate the relief of pressure and avoid the overflow during the maintenance.
6. The integrated design of pump head, built-in wire and junction box without adjusting, greatly simplifies the installation.
7. An independent vacuum sensor siphon system for cleaning, and two siphon mouths are reserved.
8. The outlet is allowed to be horizontal or vertical, which makes the layout and construction more convenient.

Characteristic

1. Include standard, enhanced, smart and large flow models to meet the needs of different customers.
2. The maximum flow rate ranges from 200 L/M to 1000 L/M, with power ranging from 0.75hp to 5hp.
3. Can be widely used in diesel, gasoline, kerosene, gasoline mixture, ethanol, methanol, etc.
4. Have high precision mechanical and electronic pressure detecting device.
5. Possess variable speed smart submersible turbine pump.



High Flow Submersible Pump

When it needs high flow or high speed to deliver oil, Red-Robe submersible pump is available for 3HP or 5HP, 50Hz or 60Hz, and it has the working performance of high efficiency, reliability, low noise.



Characteristic

1. Reliable motor with turbine technology makes higher efficiency, faster oil delivery and lower cost. with three-phase power, lower malfunction, the motor is used in various voltage and oil.
2. Red-Robe submersible pump was emphasized on the convenience of maintenance in design, which it shortens the maintenance time and promotes the benefit.
3. The motor adopts carbon bearing and stainless steel shell, making the working more reliable and the performance more stable.

Motor of Submersible Pump

1. Rated speed 2900rpm/50Hz, turbocharged structure, thermal protection function.
2. 3HP: working pressure 36psi, max. flow 600L/min, outlet pressure 276Kpa.
3. 5HP: working pressure 42psi, max. flow 1000L/min, outlet pressure 276Kpa.

Power Supply

1. Three-phase AC power.
2. Voltage: 208-230VAC, 460VAC or 575VAC.
3. Power: 3HP, 5HP



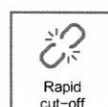
Specifications

Type	Power (HP)	Voltage (V)	Flow Rate (L/m)	Outlet Pressure (KPa)	Working Qty. of Nozzles
QYB75	0.75	220/380	228	207	4
QYB150	1.5	220/380	304	207	6
QYB200	2	220/380	380	276	8
QYB300	3	380	600	276	12
QYB500	5	380	1000	276	16
QYB200B	2	380	0-380	0-276	8
QYB300B	3	380	0-600	0-276	12
QYB500B	5	380	0-1000	0-276	16

The standard of expansion tube size range: 1.7m-2.7 m.

Remark: ""QYB"" for Submersible Turbine Pump, ""P"" for Red-Robe Manifold, ""STP"" for Blue-Robe Manifold, ""FSP"" for Motor, ""T"" for Three-phase Motor, ""B"" for Three-phase Varial Speed, Others for Singel Phase Motor.

Emergency Cut-off Valve

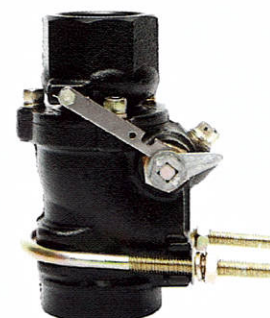


Characteristic

the emergency shut-off valve is installed on the inlet of the pipeline for the submersible pump type fuel dispenser. In case of accidents, for instance, the dispenser collapses or catches a fire, the valve can rapidly shut off the oil flow automatically.

Specifications

Main Material	Gray cast iron
Nominal Pressure	0.2MPa
Size Inlet and Outlet	NPT 1.5
Flow Range	120L/min
Applicable Medium	gasoline, diesel, kerosene
Operating Environment	-20~+55
Rate of Valve Closure	0.5S



ESV40



ESV40A

Red-Robe which has been applied to 100,000 Fuel Stations around the world can create more economic benefits.

Smart Frequency Submersible Pump

Improve refueling capacity when peak demand comes, Red-Robe Submersible Pump has invented Smart Frequency Submersible Pump according to the requirements of Sinopec and PetroChina, which improve the refueling speed at peak demand, and accord with with the design concept of Smart Type Petrol Station. Red-Robe Submersible Pump have launched 3HP and 5HP Smart Frequency Submersible Pump.



Performance / Characteristic

1. 10%-30% energy saving at off-peak time.
2. Constant Flow - 2HP, 3HP and 5HP optional depends on peak demand. 2HP for 8 nozzles, 3HP for 12 nozzles, 5HP for 16 nozzles refueling at same time.
3. Constant Flow ensure speed refueling and improve profit.
4. Able to diagnose the malfunction.
5. Improve using life, expand alarm function when leak detection is failure.

Power Supply

1. Powered by IQ Control Box of Red-Robe Submersible Pump.
2. Single phase or three phase.
3. 200-250VAC, 360-440VAC, single phase or three phase, 50Hz or 60 Hz

Smart Frequency Submersible Pump Motor

1. 2HP, 3HP, 5HP frequency motor with overheat protection.
2. Flow Range: 2HP 300L/min, 3HP 600L/min, 5HP 1000L/min.
3. Pressure: Working Pressure: 24psi-42psi.

Mechanical Leak Detector

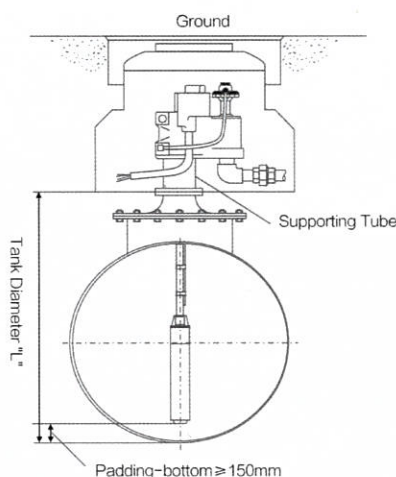
Red-Robe Submersible Pump configure mechanical leak detector which has unique structure and long service life with gasoline and diesel models, to satisfied different requirements. Make max. profit with it's high detect accuracy, safety and environmental protection.



Instruction

1. 11.4L/min leak on pipeline will be detected under pressure 10psi by all types of leak detectors
2. When leakage, all types of leak detectors will control fuel output to less than 11.4L/min.
3. After pick up the nozzle, all types of leak detectors need 2-3 seconds to work.
4. All types of leak detectors start work when pipeling pressure above 1psi.
5. All types of Leak Detectors are capable of detecting leaks of all pipelines up to 3 meters above the Leak Detector installation location.
6. When the line pressure drops below 3psi, all types of leak detectors will be turned off.

Installtion Instruction



Pipeline Computation

Type	Voltage	L1(mm)	L2(mm)
QYB150	220V	L-530	L-590
	380V	L-538	L-598
QYB150A	220V	L-540	L-470
	380V	L-548	L-478
L for tank diameter(The height from flange to bottom)			
L1 for the length of 1.5" oil inlet pipe			
L2 for the length of 1/2" wire inlet pipe			

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