



ITT

ROBOT PUMPS

Slurry Pump

RD6141LI

60 c/s

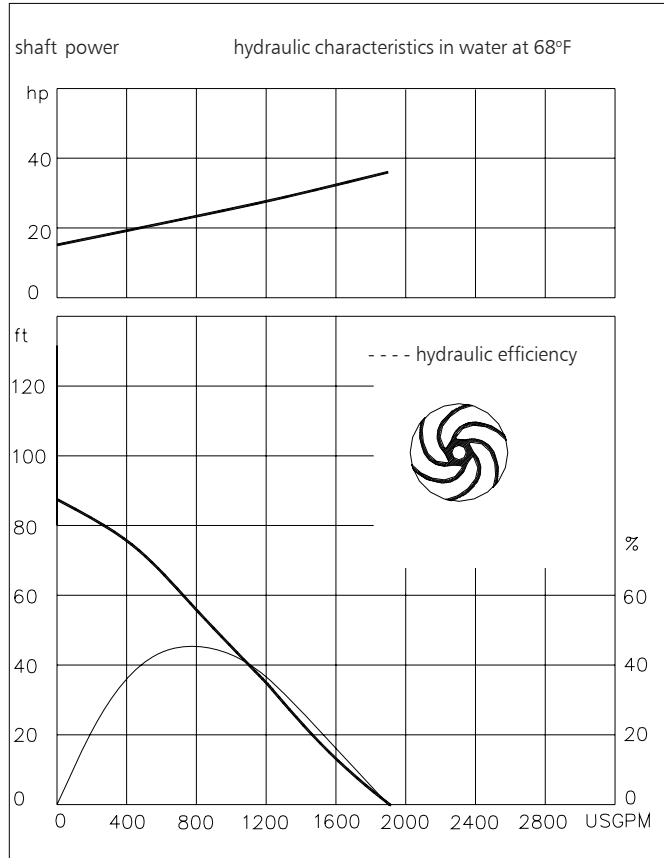
Vortex impeller pump in wear resistant Nihard 4 for reliable transport of highly abrasive solids in high concentrations.

Pump

- solids passage : 4"
- solids passage with agitator : 2"
- suction diameter : 5 3/4"
- discharge diameter : 6"
- impeller diameter : 252
- recommended minimum flow : 207 USGPM

Motor

- rated horse power : 52.3 hp
- rated electrical power : 45.4 kW
- rated kVA : 52.8 kVA
- mains : 60 c/s - 3 phase
- speed : 1750 rpm
- rated efficiency : 86 %
- rated power factor (cos phi) : 0.86
- degree of protection : IP 68
- isolation class : F (311 °F)
- max. water temperature : 104 °F
(higher temperatures on request)
- standard cable length : 33 ft
- max. submersion depth : 66 ft



15.9 USGPM = 1 l/s 1 hp = 0.736 kW 1 ft = 0.3 m 1 lb = 0.45 kg

Materials

- motor housing : 1
- seal housing : 7
- volute : 7
- hose adapter : 7
- impeller : 7
- agitator : 7
- shaft : 3 5
- bolts : 4 5
- cooling jacket : 4
- elastomers : 8+9
- electrical cable : 9
- seal lubrication : oil
- pump seal : silicon carbide-ceramic
- motor seal : carbon-ceramic
- primer : Alkyd primer
- top coating : Two component high-build polyurethane coating

| | | |
|----|-----------------|----------------------------|
| 1 | cast iron | ASTM A-48 Class 35 |
| 2 | sg cast iron | ASTM A445 Gr.60-46-18 |
| 3 | stainless steel | AISI 431 |
| 4 | stainless steel | AISI 304 |
| 5 | stainless steel | AISI 316 |
| 6 | bronze | ASTM B145 Gr. 4a |
| 7 | Nihard 4 | ASTM A532, class I, type D |
| 8 | nitrile | (NBR) |
| 9 | neoprene | (CR) |
| 10 | viton | (FPM) |

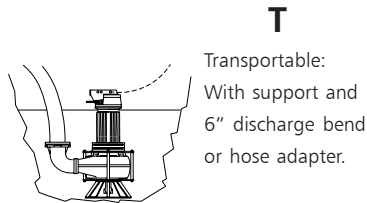
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Engineered for life



Installation options

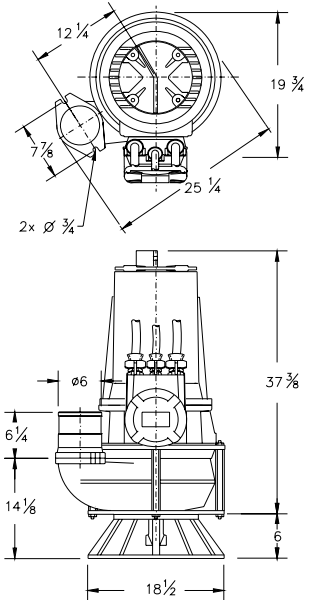
RD6141LI



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Transportable:
With support and
6" discharge bend
or hose adapter.

Without cooling system the motor is cooled by the surrounding water.
With cooling system the motor can run continuously above the water level.



Versions

K Basic version
standard with thermostiches
and agitator.

P FM approved version
Certified according to:
Class I, Division I, Groups C&D T4
Standard with thermostats and
waterdetector in motorhousing.

Weight

904 lbs

904 lbs

Optional:

Cooling system external cooling water flow min.
2.4 USGPM

Flexible protective sheating for cable
(AISI 316)

**Water detector in motor and oil
housing** (for explosion proof version only in oil
housing with external cable)

Motor connection details

| | | electrical cable size | | | | | |
|--------------|----------------------|-----------------------|----------------------|----------------------|----------------------|--|--|
| volt [V]* | rated current [A] | basic version | | FM approved version | | | |
| | | DOL-start | YD-start | DOL-start | YD-start | | |
| 380 | 80.1 | 1xAWG 2/4+1xAWG 14/4 | - | 1xAWG 2/4+1xAWG 14/7 | - | | |
| 440 | 69.2 | 1xAWG 2/4+1xAWG 14/4 | 2xAWG 6/4+1xAWG 14/4 | 1xAWG 2/4+1xAWG 14/7 | 2xAWG 6/4+1xAWG 14/7 | | |
| 460 | 66.2 | 1xAWG 2/4+1xAWG 14/4 | 2xAWG 6/4+1xAWG 14/4 | 1xAWG 2/4+1xAWG 14/7 | 2xAWG 8/4+1xAWG 14/7 | | |
| 575 | 52.9 | 1xAWG 4/4+1xAWG 14/4 | 2xAWG 8/4+1xAWG 14/4 | 1xAWG 4/4+1xAWG 14/7 | 2xAWG 8/4+1xAWG 14/7 | | |

starting current DOL-start : 4.5 x rated current

starting current YD-start : 1.5 x rated current

* other voltages on request

We reserve the right to alter specifications without prior notice.