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Technical specification

BS 2071.010, BS 2071.010-U, BS 2071.010-W



PRODUCT DESCRIPTION

Applications

2071.010 is intended to be used for pumping of water which may contain abrasive particles.

The pump is available in the following versions:

LT = lowhead version MT = mediumhead version

Liquid temperature: max. 40°C (105°F)

The pump is also available in a version (2071.010-W) for liquid temperatures up to 90°C (195°F) and in a version (2071.010-U) with POLY-LIFE wear parts for extra resistance.

2071-010-W has certain operational limitations, which are stated on a plate on the pump.

Liquid density: max. 1100 kg/m³ (9.2 lb per US gal.)

The pumped liquid may contain particles up to a size which corresponds to the openings in the strainer.

The pH of the pumped liquid: 5—8.

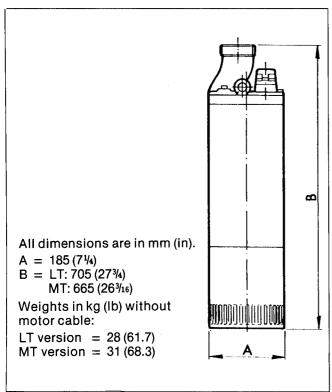
Depth of immersion: max. 20 m (66 ft).

For other applications, contact your nearest Flygt representative for information.

WARNING!

The pump may not be used in an explosive or flammable environment or for pumping flammable liquids.

Dimensions and weights



Motor data

3-phase motor

Motor type: Squirrel-cage AC motor, insulation class F

Rated output: 3.0 kW, $3 \sim 50$ Hz 2800 r/min

| Voltage V | Rated current A | Starting current A |
|-----------|-----------------|-----------------------|
| 220 | 11.0 | 60.1 |
| 380 | 6.6 | 34.6 |
| 400 | 6.3 | 30.0 |
| 415 | 6.0 | 31.0 |
| 440 | 5.7 | 32.9 |
| 500 | 5.0 | 24.7 |
| 550 | 4.6 | 27.1 |
| 660 | 3.8 | 20.0 |

Rated output: 4.6 kW (6.0 hp), $3 \sim 60 \text{ Hz}$ 3335 r/min

| Voltage V | Rated current A | Starting current A |
|-------------------|--------------------|----------------------|
| 230 460 575 | 16.0 8.1 6.5 | 78.0 43.0 29.0 |
| 600 | 6.2 | 30.0 |

Rated output: 3.1 kW (4.1 hp), 1~ 60 Hz 3430 r/min

| Voltage V | Rated current A | Starting current A |
|-----------|--------------------|-----------------------|
| 230 | 17.0 | 46.0 |

Materials

| | | DIN | BS | AISI |
|------------------|--|------------------------|--------------|-----------|
| Cast parts: | Aluminium (Hydronalium) | G-Al Mg5 Si 1 | 1490 LM 5 | ~ SEA 320 |
| Shaft: | Stainless steel | 1.4460 | _ | 329 |
| Impeller: | Forged and hardened spring steel | 1.8159 | 735 A50 | 6150 |
| | Forged stainless steel | 1.4571 | A 12 Ti | 316 Ti |
| Hydraulic parts: | | Nitrile-rubber-covered | | |
| DOLLY LIFE ! | | | | |

POLY-LIFE version: Polyurethane-lined

Seal surfaces, inner seal: Tungsten carbide-Tungsten carbide Tungsten carbide—Tungsten carbide Seal surfaces, outer seal:

Motor

Motor insulation to Class F means a maximum working temperature of 155°C (310°F) and permits a temperature rise of 100°C (210°F).

The temperature rise in Flygt motors does not normally exceed 80°C (175°F). The insulation material is chosen with the greatest care, and most materials are classified as Class H (180°C, 355°F) materials or very close to Class H. This means an expected service life far beyond what is required for Class F.

Monitoring equipment~

The stator incorporates two thermal switches connected inseries.

The thermal switches open at 125°C (260°F).

The monitoring equipment shall be of a design that makes automatic restart impossible.

See also "Electrical connections" and separate instructions for starter equipment.

Shaft seals

The pump has two pairs of mechanical seals with extremely wearresistant seal surfaces.

The seals work independently of each other and seal off the motor from the pump unit.



The junction box is completely sealed off against the surrounding liquid and against the motor unit.

Cooling

The pumped liquid is circulated from the pump casing up between the cooling jacket and the stator casing and carries away the heat generated by the motor.

Bearings

The upper bearing consists of a single row ball bearing.

The lower bearing consists of a double row angular contact ball bearing.

Oil casing

The oil lubricates and cools the seals and acts as a buffer between the pump casing and the electric motor.

Pressure build-up within the oil casing is reduced by means of a built-in air volume.

Impellers

The LT version is equipped with one impeller and the MT version has two impellers in series.

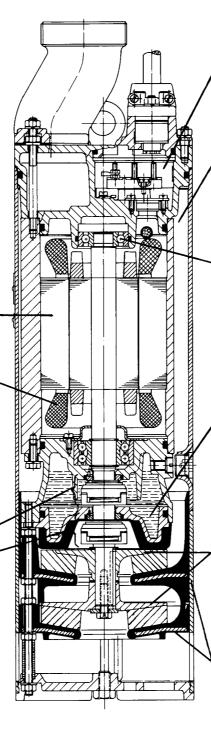
The impellers can be chosen in two different material variants.

Wear parts

The pump's easily replaceable wear parts are rubbercovered.

By means of a simple fine ajdustment, the pump's capacity can be maintained despite heavy wear.

When the parts are finally worn out, replacement is an easy matter.



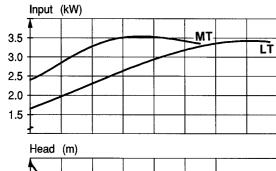
Performance curves

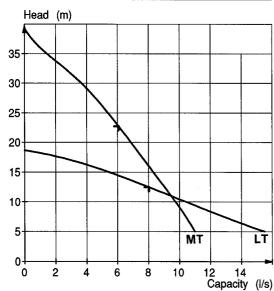
LT = Low-head version

MT = medium-head version

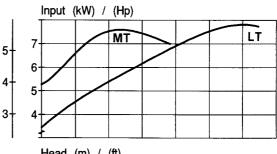
= Best operating point

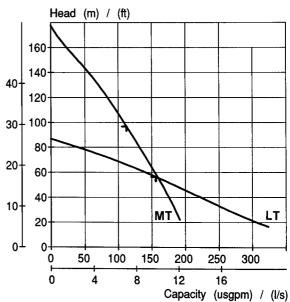
50 Hz, 3-phase





60 Hz, 3-phase





60 Hz, 1-phase

