

ETLL032-032-105 GPSAV11D200552M AATB

Inline pump

Ident number 48270126

Operating data

| | | | |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------|
| Requested flow rate | | Actual flow rate | 6.22 m³/h |
| Requested developed head | | Actual developed head | 10.74 m |
| Pumped medium | Antifreeze on propylene glycol base, inhibited, closed system, e.g. Antifrogen L or similar products | Efficiency | 57.3 % |
| | Concentration 35% | MEI (Minimum Efficiency Index) | = 0.70 |
| | Not containing chemical and mechanical substances which affect the materials | Power absorbed | 0.33 kW |
| Ambient air temperature | 20.0 °C | Pump speed of rotation | 2843 rpm |
| Fluid temperature | -4.0 °C | Permissible operating pressure | 10.00 bar.g |
| Fluid density | 1045 kg/m³ | Discharge press. | 1.10 bar.g |
| Fluid viscosity | 12.10 mm²/s | Min. allow. mass flow for continuous stable operation | 0.03 kg/s |
| Suction pressure max. | 0.00 bar.g | Shutoff head | 13.41 m |
| Mass flow rate | 1.81 kg/s | Max. allow. mass flow | 4.10 kg/s |
| Max. power on curve | 0.37 kW | Design | Single system 1 x 100 % |
| Min. allow. flow for continuous stable operation | 0.09 m³/h | | |

Design

| | | | |
|------------------------------------------------|-------------------------------|----------------------------------|-------------------------------------------------------------------------------------|
| Pump standard | Without | Manufacturer | KSB |
| Design | Close-coupled in-line | Type | TYPE 2100 |
| Orientation | Horizontal | Material code | BQ1EGG |
| Suction nominal dia. | DN 32 | Shaft seal code | 11 |
| Suction nominal pressure | PN 6/10 | Sealing plan | Single-acting mechanical seal with vented chamber (A-type casing cover, taper bore) |
| Suction position | 180° (down) | | Conical seal chamber (A-type cover) |
| Suction flange drilled according to standard | EN1092-2 | Seal chamber design | |
| Discharge nominal dia. | DN 32 | Impeller diameter | 105.0 mm |
| Discharge nominal pressure | PN 6/10 | Direction of rotation from drive | Anticlockwise |
| Discharge position | top (0°/360°) | Bearing bracket construction | Close-coupled |
| Discharge flange drilled according to standard | EN1092-2 | Bearing type | Anti-friction bearings |
| Shaft seal | Single acting mechanical seal | Lubrication type | Grease |
| | | Color | Vermilion (RAL 2002) |

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Driver, accessories

| | | | |
|------------------------|-------------------------------------------------|--------------------------------------|-----------------------|
| Driver type | Electric motor | Cos phi at 4/4 load | 0.97 |
| Drive standard mech. | IEC | Motor efficiency at 4/4 load | 65.0 % |
| Model (make) | KSB | Temperature classes | "" |
| Drive supplied by | Standard motor supplied by KSB - mounted by KSB | aggregate | "" |
| Motor const. type | B14 | Temperature class motor | "" |
| Motor size | 63M | Temperature sensor | Without |
| Frequency | 50 Hz | Terminal box position | 0°/360° (top) |
| Rated voltage | 400 V | | Viewed from the drive |
| Rated power P2 | 0.55 kW | Motor winding | 230 / 400 V |
| Available reserve | 66.15 % | Number of poles | 2 |
| Rated current | 4.2 A | Connection mode | Star |
| Starting current ratio | 2.9 | Motor cooling method | Surface cooling |
| Insulation class | F to IEC 34-1 | Motor material | AC-46200F-D |
| Motor enclosure | IP55 | Frequency inverter operation allowed | FI allowed |
| | | Motor noise pressure level | 62 dBa |

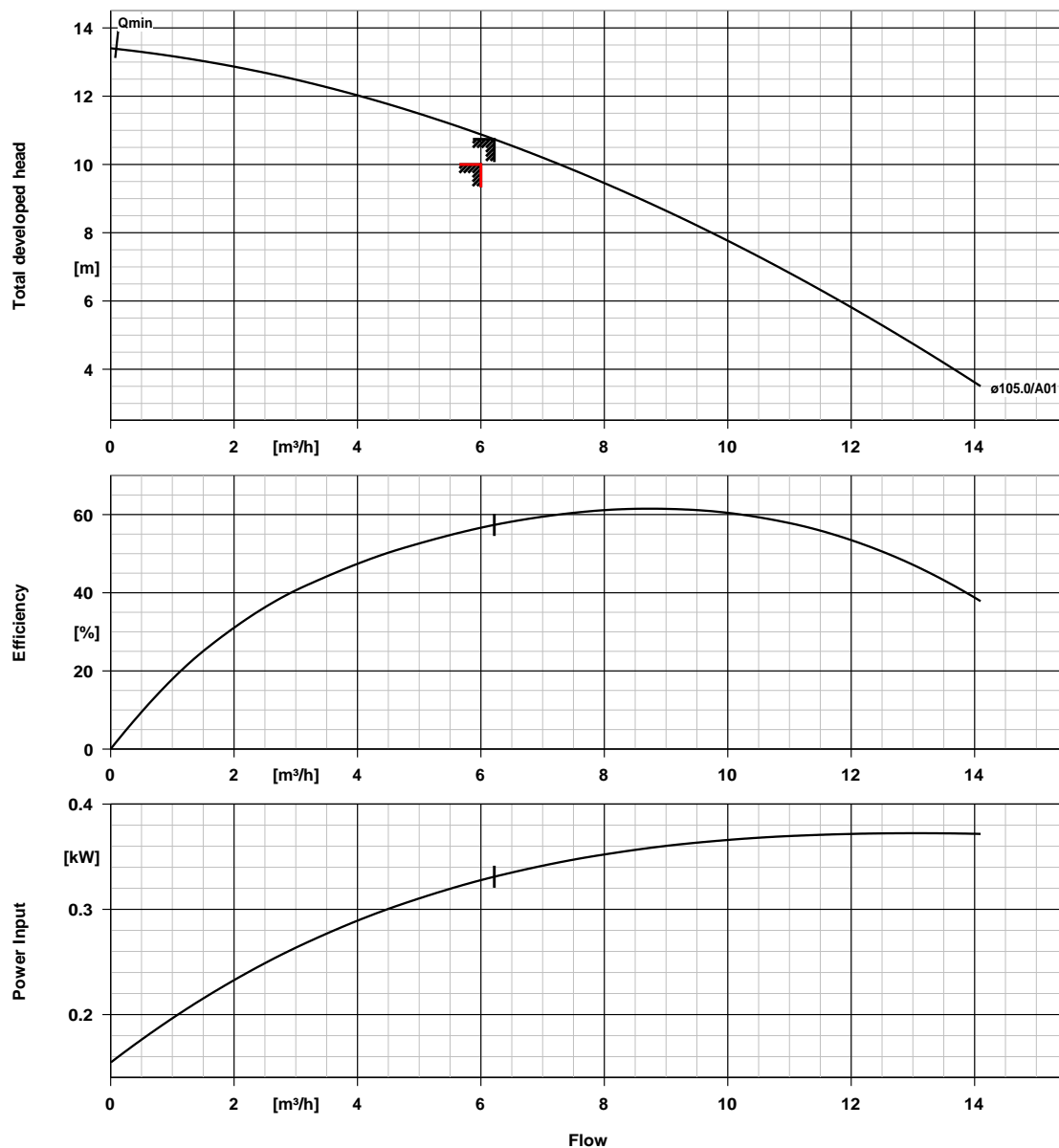
Materials GP

| | | | |
|---------------------|------------------------|-------------------|--------------------|
| Volute casing (102) | Cast iron EN-GJL-200 | Motor stool (341) | Aluminium AC-46500 |
| Shaft (210) | Stainless steel 1.4571 | O-Ring (412.50) | EPDM 70 PEROXYD |
| Impeller (230) | Polysulphon PSU-GF30 | Cap (580) | Polyamid 66 |

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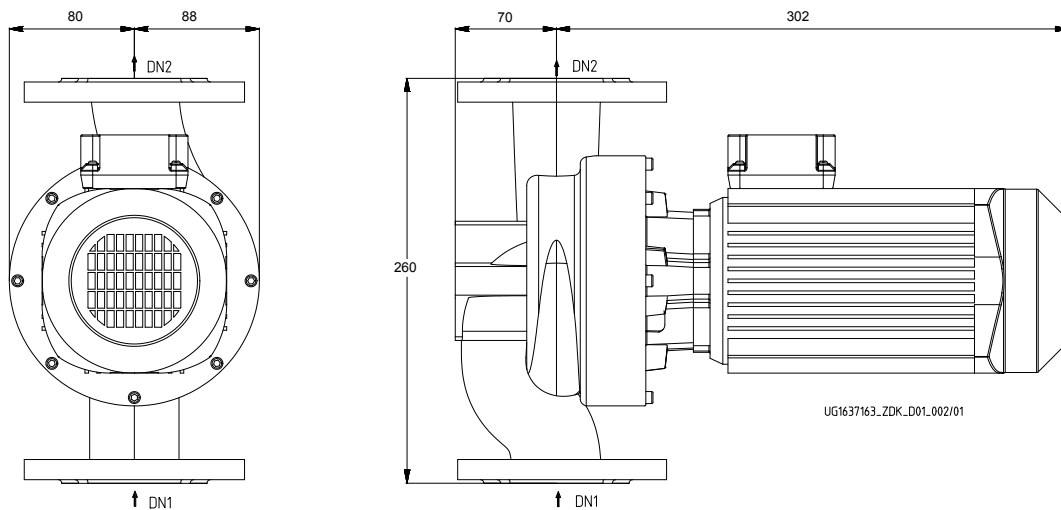
Curve data

| | | | |
|----------------------|-------------|--------------------------------|------------------|
| Speed of rotation | 2843 rpm | Requested developed head | 10.00 m |
| Fluid density | 1045 kg/m³ | Efficiency | 57.3 % |
| Viscosity | 12.10 mm²/s | MEI (Minimum Efficiency Index) | = 0.70 |
| Flow rate | 6.22 m³/h | Power absorbed | 0.33 kW |
| Requested flow rate | 6.00 m³/h | Curve number | K1159.452/75Ø105 |
| Total developed head | 10.74 m | Effective impeller diameter | 105.0 mm |

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Drawing is not to scale

Dimensions in mm

Motor

| | |
|--------------------------|-----------------------|
| Motor manufacturer | KSB |
| Motor size | 63M |
| Motor power | 0.55 kW |
| Number of poles | 2 |
| Speed of rotation | 2833 rpm |
| Position of terminal box | 0°/360° (top) |
| | Viewed from the drive |

Connections

| | |
|----------------------------|------------------|
| Suction nominal size DN1 | DN 32 / EN1092-2 |
| Discharge nominal size DN2 | DN 32 / EN1092-2 |
| Nominal pressure suct. | PN 6/10 |
| Rated pressure disch. | PN 6/10 |

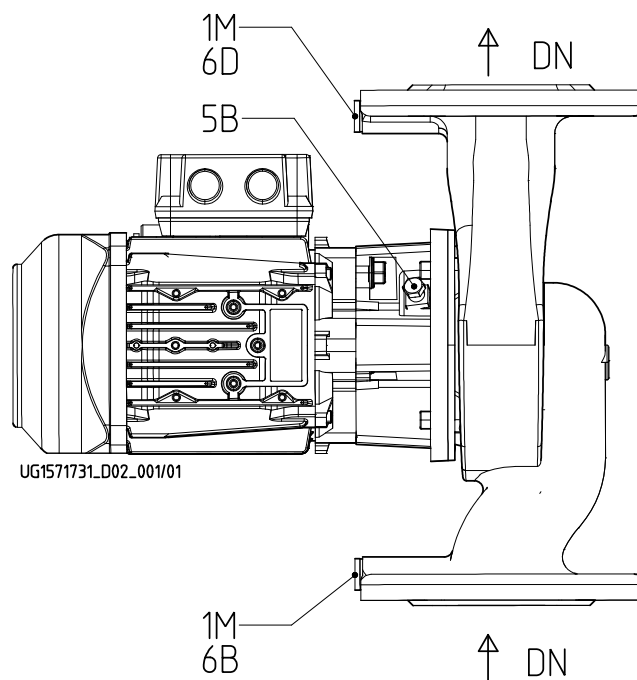
Connect pipes without stress or strain!

For auxiliary connections see separate drawing.

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Connections

| | | |
|--------------------------------------|-------|--------------------------|
| 1M Pressure gauge connection | G 1/4 | Drilled and plugged. |
| 6D Pumped medium - filling / venting | G 1/4 | Drilled and plugged. |
| 5B venting | | Closed with venting plug |
| 6B Pumped liquid drain | G 1/4 | Drilled and plugged. |