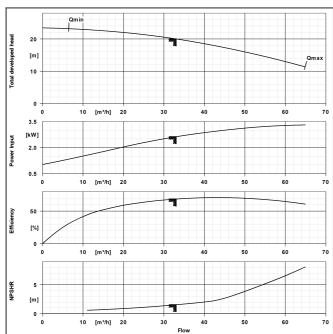
### **Compact Datasheet**



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Etaline 050-050-160 GG

ETL 050-050-160-GGSCV11 WSEDN4HBB



Design data pump

Pump standard EN 733 Pump design Close-coupled Nominal diameter Suction DN 50

nozzle

Suction nozzle design acc.to EN1092-2 Suction flange bolt hole EN1092-2

pattern as per standard

Nominal diameter Discharge **DN 50** 

nozzle

Discharge nozzle design EN1092-2

acc.to

Discharge flange bolt hole EN1092-2 pattern as per standard

PN 16

150 mm

11,5 mm

**BQEGG DW001** Code 11

Nominal pressure Suction

nozzle

Nominal pressure Discharge PN 16 nozzle

Material Shaft seal inboard

Shaft seal code

Shaft/Stem seal

Hydraulic impeller diameter

Free passage

Specification of wetted parts

Manufactured without paint wetting impairment substances

Inboard single mechanical seal

**Materials** 

Material Volute casing EN-GJL-250/A48 CL 35B Material Casing cover EN-GJL-250/A48 CL 35B

Version No.: 2

Material Support foot WITHOUT Material Shaft C45+N

Material Impeller EN-GJL-250/A48 CL 35B

Dimensioning operating point

Fluid Water Fluid variant Clean water

Specified ambient 20 °C

temperature

Specified fluid temperature 20 °C 33 m³/h Flow rate 20 m Head Efficiency Pump 68,5 % Minimum efficiency index MEI0,7

Maximum power input at duty 2,621 kW

point

Pump speed 2.512 1/min

Pump system design Single-pump system

NPSH required 1,56 m

**Driver** 

Drive concept Electric actuator **IEC** 

Drive standard, mechanical Drive standard electric **IEC** 

IE5 (Ultra Premium) Efficiency class

Rated speed Motor 3.000 1/min Rated frequency Motor 100Hz Rated voltage Motor 400 V Rated power Motor 7,5 kW Motor power reserve 138 %

determined

Rated current Motor 16,7 A

155 (F) nach IEC 60085 Thermal class

**Enclosure Motor** IP55 (TEFC) 3 PTC thermistors Temperature sensor motor

400 V Mains voltage Motor switching type Star

Operation on a frequency

inverter permitted

Terminal box position of motor (looking at the motor

shaft)

Required by design

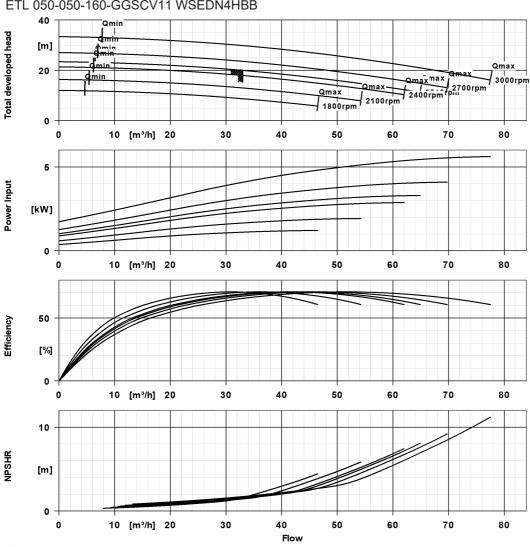
360°



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# Etaline 050-050-160 GG

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### **Curve Data**

Density Fluid handled 998 kg/m<sup>3</sup> Minimum efficiency index MEI 0,7 Kinematic viscosity Fluid Hydraulic impeller diameter 1 mm<sup>2</sup>/s 150 mm handled Head 20 m Flow rate 33 m³/h

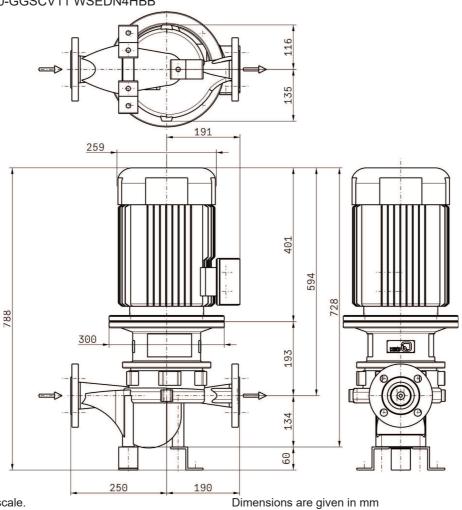
# Installation plan



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# Etaline 050-050-160 GG

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Drawing is not to scale.

### Motor Connections

Electric motor	No
Rated power Motor	7,5 kW
Rated speed Motor	3.000 1/min
Material Installation part Pump	WITHOUT

Nominal diameter Suction nozzle
Suction flange bolt hole pattern as
per standard
Nominal diameter Discharge nozzle
Discharge flange bolt hole pattern
as per standard
Nominal pressure Suction nozzle
Nominal pressure Discharge nozzle
PN 16
PN 16

# Installation plan



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Etaline 050-050-160 GG ETL 050-050-160-GGSCV11 WSEDN4HBB

### Net weight

Total weight Pump 35,56 kg Total weight Drive 56 kg Total weight Pump set 93,09 kg Total weight Assembly/transport aids 6,12 kg

### Connect pipelines stress-free

## Plan for additional connections see extra drawing

Dimensional tolerances for shaft axis height: DIN 747

Dimensions without tolerances, middle tolerances to: ISO 2768-m Connection dimensions for pumps: EN735

Dimensions without tolerances - welded parts: ISO 13920-B

Dimensions without tolerances - gray cast iron parts: ISO 8062-CT9

# Technical data sheet monitoring unit



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PumpMeter

### Design

Explosion protection type Monitoring unit

Length Connection cable Monitoring unit

5 m

#### **General description**

PumpMeter

Intelligent pressure transmitter PumpMeter with on-site display of operating point

#### General description:

PumpMeter is an intelligent pressure transmitter with on-site display of measured values and pump operating data. It is supplied completely assembled and parameterised for the individual pump. PumpMeter is ready for operation as soon as the M12 plug connector is plugged in. PumpMeter records the load profile of the pump during operation in order to indicate any potential for optimising the energy efficiency and availability of your pumping system.

## Display unit:

Backlit display for on-site display of measured values and pump operating data in a straightforward manner based on international symbols, rotatable in steps of 90°.

#### Values displayed:

Suction pressure, pressure at pump inlet in bar(g)
Discharge pressure, pressure at pump outlet in bar(g)
Differential pressure between pump inlet and outlet in bar
Qualitative indication of the operating point

Connection of display unit via M12 x 1 5-pin connector, for power supply and utilisation of communication interfaces. Data options available: measured discharge pressure or calculated differential pressure of the pump via analog 4 - 20 mA signal or serial interface RS 485 (Modbus RTU).

Communication via RS232 service interface for parameterisation. Parameters factory-set for the individual pump.

### Ambient conditions:

Enclosure: IP65 Ambient temperature -30°C ... 80°C (transport, storage) -10°C ... 60°C (operation)

Fluid temperature: -30°C to 140°C

#### Material resistance:

UV-resistant (suitable for outdoor installation) Resistant to most commonly used cleaning agents Resistant to oil mist

#### Silicone-free:

Manufactured without paint wetting impairment substances

Electrical data: Power supply:

24V DC ± 10%, min. 140 mA

Interfaces, alternatives: 4 - 20 mA, 3-wire (discharge pressure or differential pressure)

RS485, Modbus RTU (Slave)

# Technical data sheet monitoring unit



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Service interface: RS232

EMC:

EN 61326-1 (interference immunity for industrial environments, interference emission for residential environments)

#### Sensors

Two gauge pressure sensors - one sensor factory-mounted at the pump inlet and outlet, respectively, and connected to the analysing unit by plug-type connector.

Measuring accuracy (sum of all errors relative to the measuring range):

±1% for a fluid temperature of -10 to 100 °C

±2.5% for a fluid temperature of -30 to -10 °C and 100 to 140 °C

Measuring cell material: stainless steel (sealless)

Available measuring ranges:

- -1 ...10 bar (gauge pressure)
- -1 ...10 bar (gauge pressure)