TPD 40-60/2-A-F-A-BUBE 400Y 50HZ

Grundfos pump 96401934

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https://www.lenntech.com/grundfos/TPD00/96401934/TPD-40-60-2-A-F-A-BUBE.html

info@lenntech.com
tel. +31 152 610 900
fax. +31 152 616 289

Position	Qty.	Description
	1	**TPD 40-60/2 A-F-A-BUBE**

Product No.: On request

Single-stage, close-coupled, volute twin-head pump with in-line suction and discharge ports of identical diameter. The twin-head pump is designed with two parallel power-heads. The pump is of the top-pull-out design, i.e. the power head (motor, pump head and impeller) can be removed for maintenance or service while the pump housing remains in the pipework.

Each power head is fitted with an unbalanced rubber bellows seal. The shaft seal is according to EN 12756. Pipework connection is via PN 6/10 DIN flanges (EN 1092-2 and ISO 7005-2).

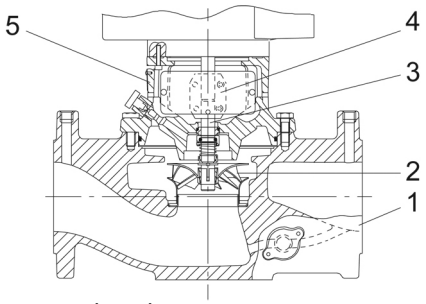
Each power head is fitted with a fan-cooled asynchronous motor of indentical size.

Further product details

The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

Pump

Pump housing and pump head are electrocoated to improve the corrosion resistance.
Electrocoating includes:
1) Alkaline-based cleaning.
2) Pretreatment with zinc phosphate coating.
3) Cathodic electrocoating (epoxy).
4) Curing of paint film at 200-250 °C.



1: Pump housing
2: Impeller
3: Shaft
4: Coupling
5: Pump head

The twin-head pump is designed with two parallel power-heads. A flap valve in the common discharge port is opened by the flow of the pumped liquid and prevents backflow of liquid into the idle pump head.

The pump housing is provided with a replaceable stainles steel/PTFE neck ring to reduce the amount of liquid running from the discharge side of the impeller to the suction side. The impeller is secured with a split cone with nut.

The pump is fitted with an unbalanced rubber bellows seal with torque transmission across the spring and around the bellows. Due to the bellows, the seal does not wear the shaft, and the axial movement is not prevented by deposits on the shaft.

Primary seal:

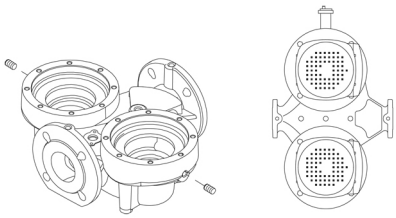
- Rotating seal ring material: tungsten carbide (WC)
- Stationary seat material: carbon graphite, resin-impregnated

This is a widely used material pairing. If the pumped liquid contains particles, wear on the seal faces must be expected. Due to the favourable lubricating properties of carbon graphite, the seal is suitable for use even under poor lubricating conditions, such as hot water. However, under such conditions, wear on the carbon graphite face reduces seal life.

Secondary seal material: EPDM (ethylene-propylene rubber)
EPDM has excellent resistance to hot water. EPDM is not suitable for mineral oils.

A circulation of liquid through the duct of the air vent screw ensures lubrication and cooling of the shaft seal.

The pump housing has two Rp 1/8 tappings for mounting of automatic air vents. Fit an air vent to the upper pump housing if the twin-head pump is to be installed in a horizontal pipeline with horizontal pump shaft.



The flanges have tappings for mounting of pressure gauges.

The motor stool forms connection between the pump housing and the motor, and is equipped with a manual air vent screw for venting of the pump housing and the shaft seal chamber. The sealing between motor stool and pump housing is an O-ring.

The central part of the motor stool is provided with guards for protection against the shaft and coupling. Motor and pump shaft are connected via a shell coupling.

Motor

The motor is a totally enclosed, fan-cooled motor with principal dimensions to IEC and DIN standards. Electrical tolerances comply with IEC 60034.

The motor is flange-mounted with tapped-hole flange (FT).
Motor-mounting designation in accordance with IEC 60034-7: IM B 14, IM V 18 (Code I) / IM 3601, IM 3611 (Code II).

The motor does not incorporate motor protection and must be connected to a motor-protective circuit breaker which can be manually reset. The motor-protective circuit breaker must be set according to the rated current of the motor (I1/1).

Technical data

Liquid:

Pumped liquid:	Water
Liquid temperature range:	0 .. 140 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³

Technical:

Rated flow:	9.69 m³/h
Rated head:	4.59 m
Actual impeller diameter:	70 mm
Primary shaft seal:	BUBE
Curve tolerance:	ISO9906:2012 3B

Materials:

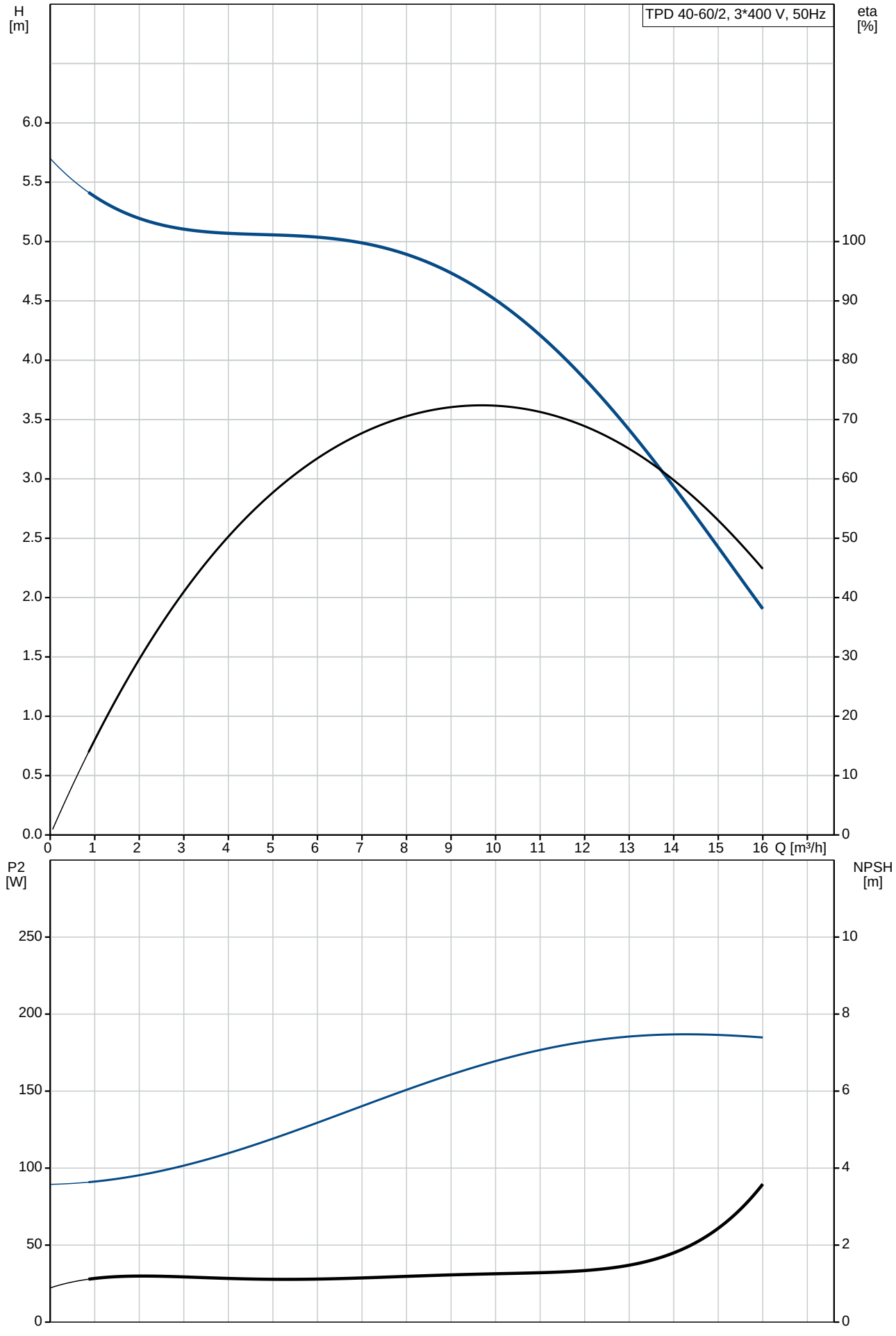
Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304

Installation:

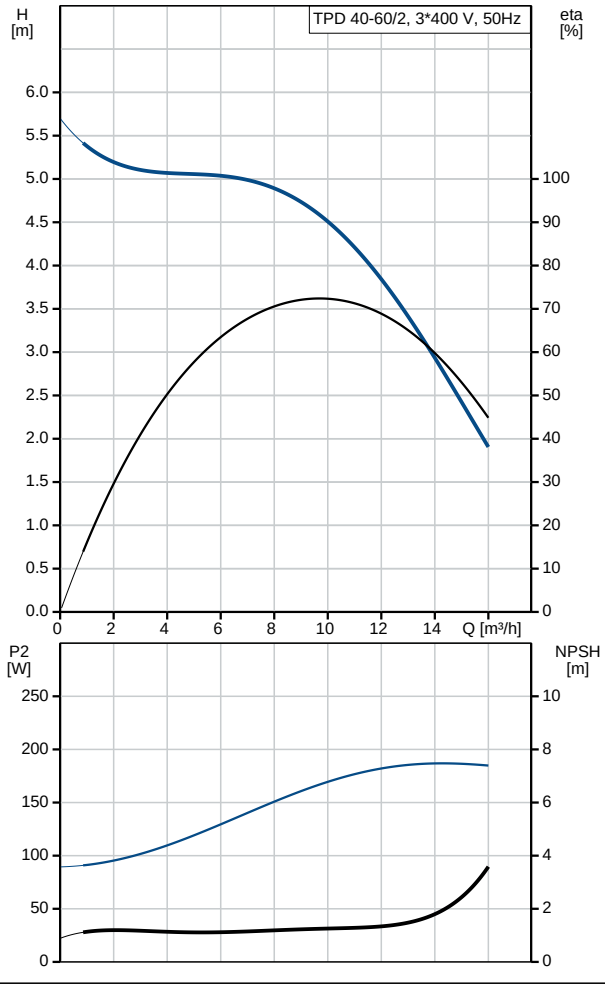
Range of ambient temperature:	-30 .. 40 °C
Maximum operating pressure:	10 bar

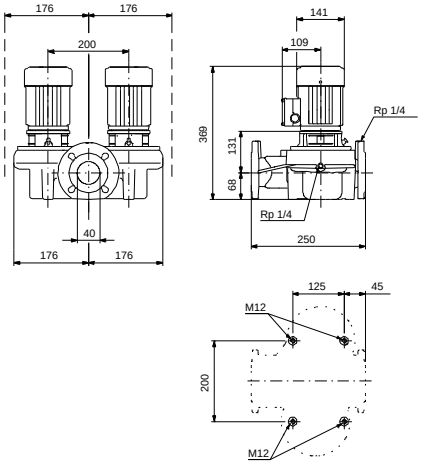
Position	Qty.	Description
		Flange standard: DIN Pipe connection: DN 40 Pump inlet: DN 40 Pump outlet: DN 40 Pressure rating: PN 6/10 (@): 250 mm Flange size for motor: FT85 **Electrical data:** Motor type: 71A Rated power - P2: 2 x 0.25 kW Mains frequency: 50 Hz Rated voltage: 3 x 220-255D/380-440Y V Rated current: 1.12/0.65 A Starting current: 570-620 % Cos phi - power factor: 0.83-0.71 Rated speed: 2840-2880 rpm Efficiency: 73% Motor efficiency at full load: 73 % Number of poles: 2 Enclosure class (IEC 34-5): 55 Dust/Jetting Insulation class (IEC 85): F **Others:** Minimum efficiency index, MEI ≥: 0.70 ErP status: EuP Standalone/Prod. Net weight: 40.6 kg Gross weight: 46.5 kg Shipping volume: 0.08 m^3

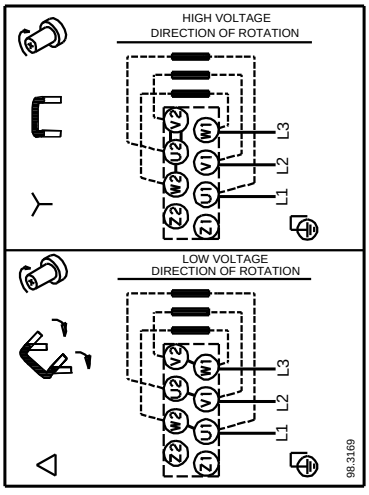
On request TPD 40-60/2 A-F-A-BUBE 50 Hz



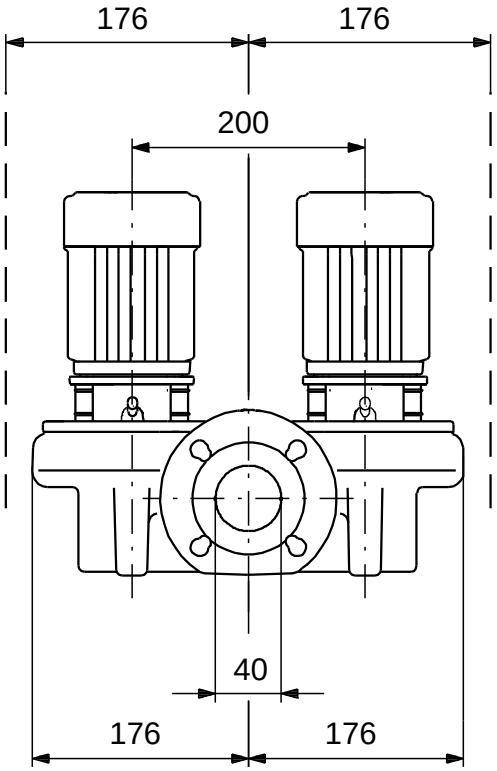
Description	Value
General information:	
Product name:	TPD 40-60/2 A-F-A-BUBE
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	9.69 m³/h
Rated head:	4.59 m
Head max:	60 dm
Actual impeller diameter:	70 mm
Primary shaft seal:	BUBE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
	ASTM A48-40 B
Impeller:	Stainless steel
	DIN W.-Nr. 1.4301
	AISI 304
Material code:	A
Installation:	
Range of ambient temperature:	-30 .. 40 °C
Maximum operating pressure:	10 bar
Flange standard:	DIN
Pipe connection:	DN 40
Pump inlet:	DN 40
Pump outlet:	DN 40
Pressure rating:	PN 6/10
(@)	250 mm
Flange size for motor:	FT85
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	0 .. 140 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	71A
Rated power - P2:	2 x 0.25 kW
Mains frequency:	50 Hz
Rated voltage:	3 x 220-255D/380-440Y V
Rated current:	1.12/0.65 A
Starting current:	570-620 %
Cos phi - power factor:	0.83-0.71
Rated speed:	2840-2880 rpm
Efficiency:	73%
Motor efficiency at full load:	73 %
Number of poles:	2
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	NONE
Motor No:	85105501
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	40.6 kg
Gross weight:	46.5 kg
Shipping volume:	0.08 m³
Sales region:	GB

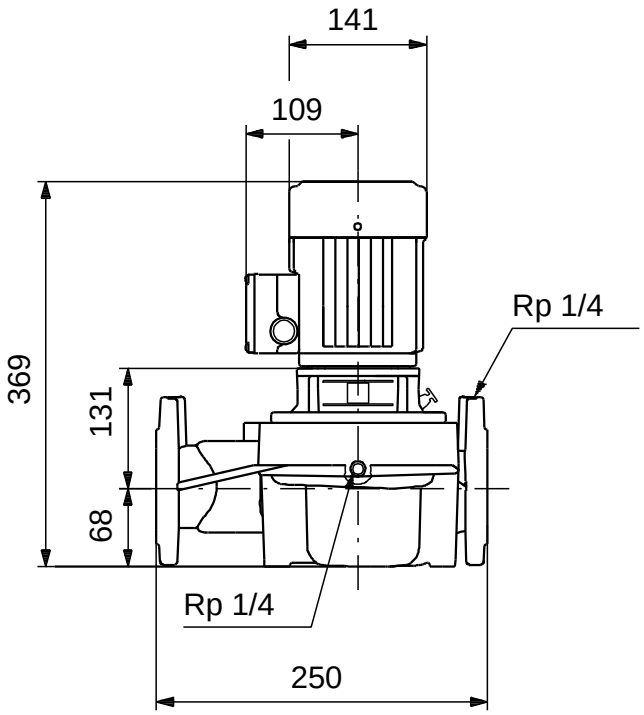


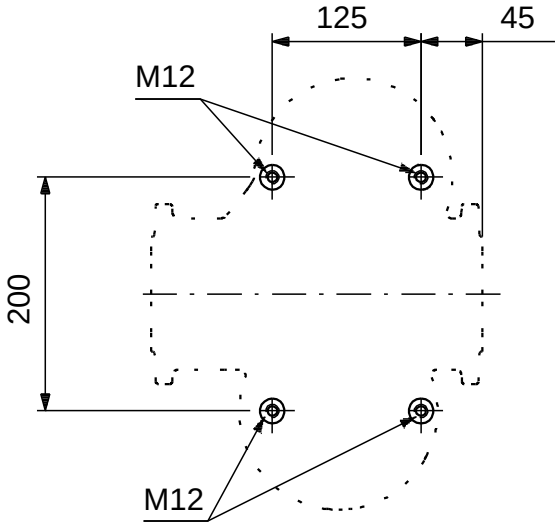




On request TPD 40-60/2 A-F-A-BUBE 50 Hz

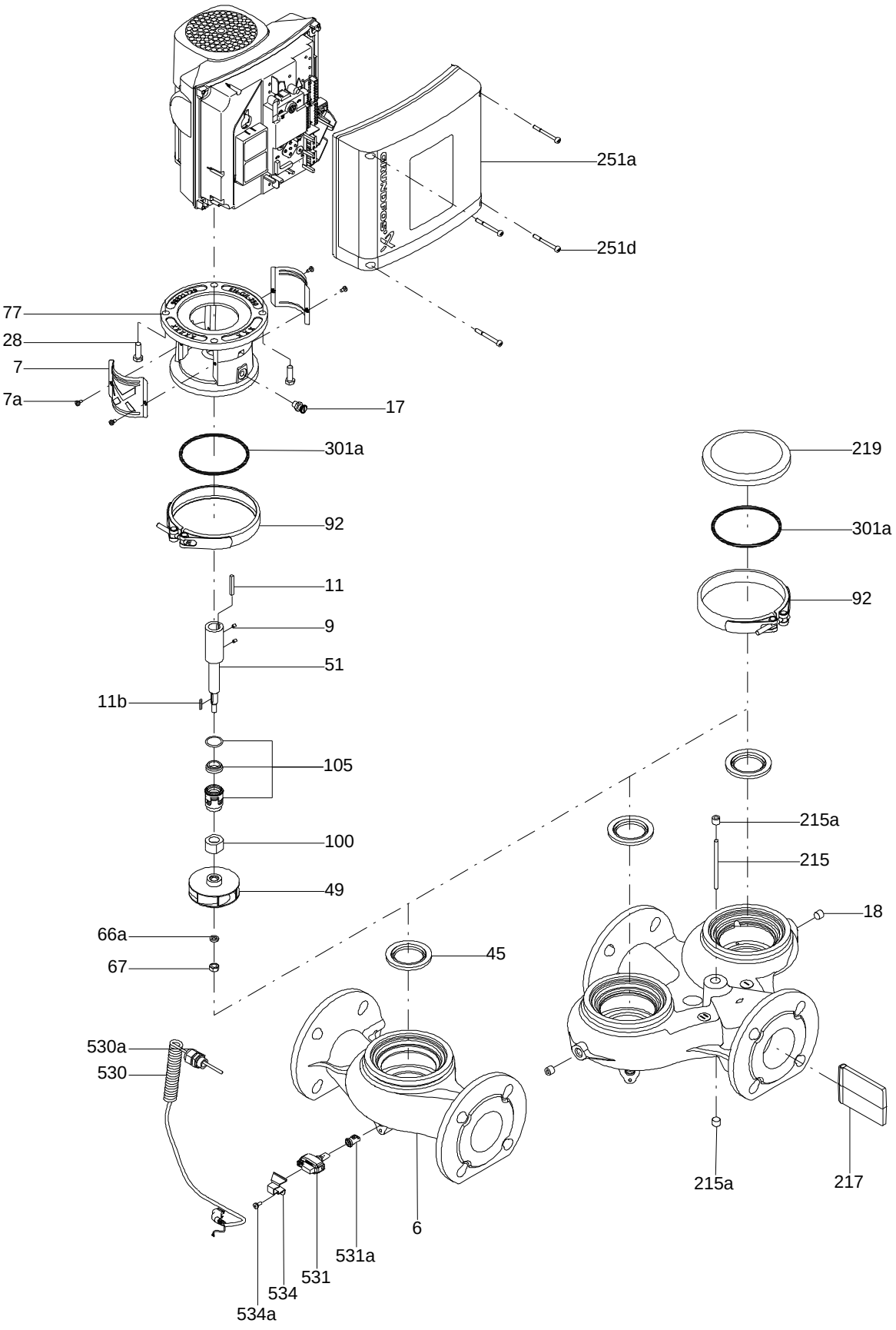




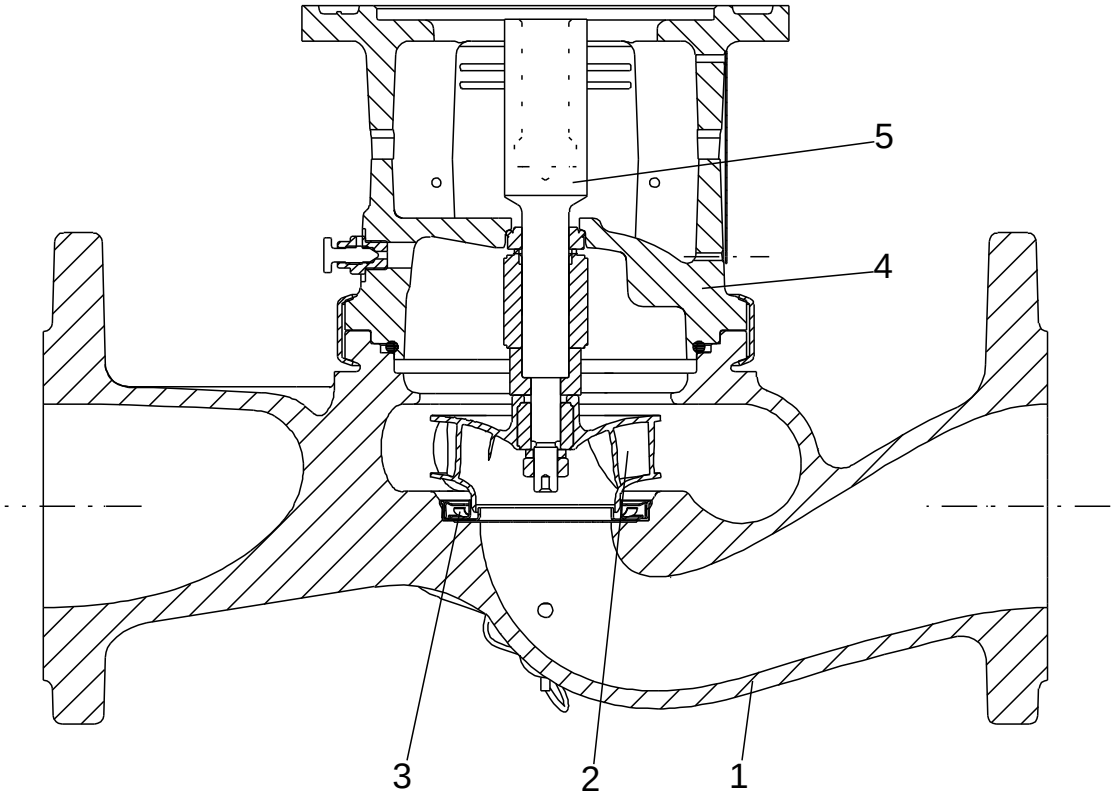


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

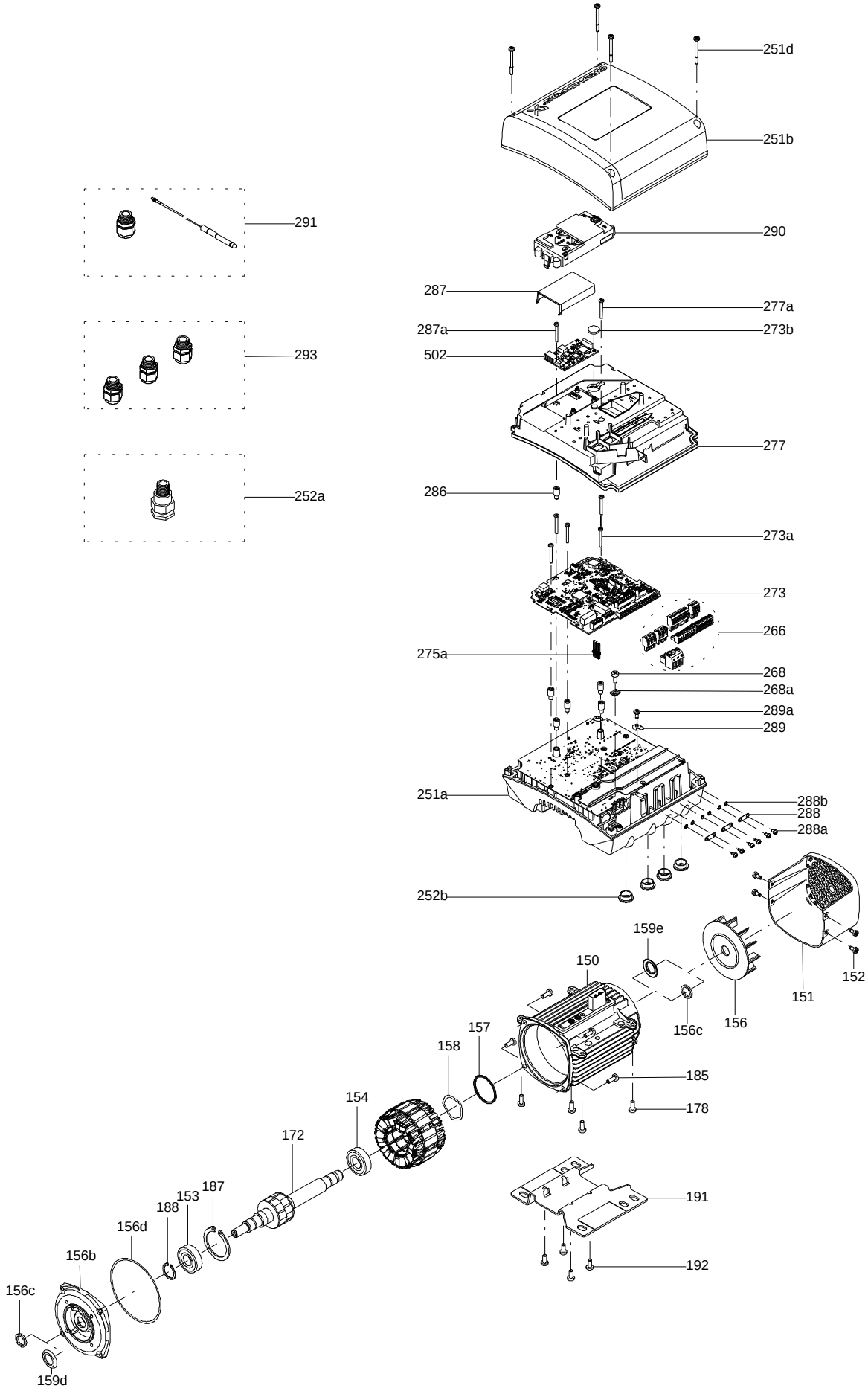


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list TPD 40-60/2, Product No. On request
Valid from 20.6.2010 (1024)

	Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+		Motor				2	pcs
-		Coupling cpl.				2	pcs
	9	Hex socket head cap screw		Designation: DIN 912		4	
				Length (mm): 20			
				Thread: M6			
	10	Shaft pin		Diameter: 5		1	
				Length (mm): 26			
	10a	Coupling half				2	
-		Motor stool cpl.				2	pcs
	2	Motor stool				1	
	26	Hex head screw				4	
	28	Hex head screw		Length (mm): 20		4	
				Thread: M8			
-		Pump housing cpl.				1	pcs
	6	Pump housing cpl.				1	
	65	Retainer for neck ring				1	
	215	Guide pin				1	
	217	Valve flap				1	
-		Coupling guard cpl.				2	pcs
	7	Coupling guard				2	
	7a	Pan head screw				4	
-		Shaft w/impeller cpl.				2	pcs
	48	Split cone nut				1	
	49	Impeller cpl.				1	
	49b	Split cone				1	
	51	Pump shaft				1	
	18	Air vent screw		Thread: 1/4"		2	pcs
	19	Plug				6	pcs
	72a	O-ring				2	pcs
	105	Shaft seal		Material type: EPDM		2	pcs

Disclaimer: The information about the Grundfos pump in this document may be outdated.
Data may be subject to alterations without further notice.
Please contact us to verify the data above is still accurate/up-to-date.

info@lenntech.com
https://www.lenntech.com
tel. +31 152 610 900
fax. +31 152 616 289