TPD 32-100/4-A-F-A-BQQE 1X230 50HZ

Grundfos pump 96384208



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https://www.lenntech.com/grundfos/TPD00/96384208/TPD-32-100-4-A-F-A-BQQE.html

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Position	Qty.	Description
	1	**TPD 32-100/4 A-F-A-BQQE**



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 16 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

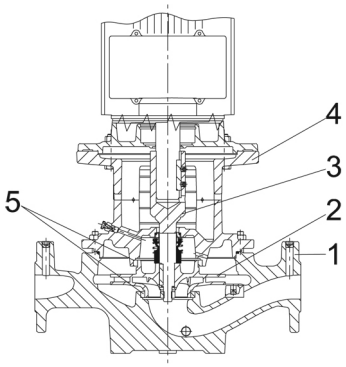
The product's minimum efficiency index (MEI) is greater or equal to 0.70. This is by the Commission Regulation (EU) considered as an indicative benchmark for best-performing water pump available on the market as from 1 January 2013.

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: Stub shaft
4: Pump head/motor stool
5: Wear rings

The twin-head pump is designed with two parallel power-heads. A non-return 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 brass neck ring to reduce the amount of liquid running from the outlet side of the impeller to the inlet side. The impeller is secured to the shaft with a 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: silicon carbide (SiC)
- Stationary seat material: silicon carbide (SiC)

Position	Qty.	Description

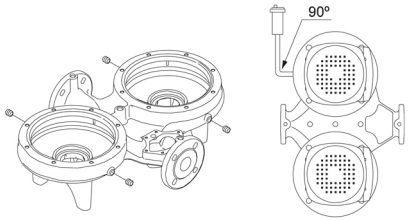
This material pairing is used where higher corrosion resistance is required. The high hardness of this material pairing offers good resistance against abrasive particles.

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 four 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. The pump shaft is fastened directly on the motor shaft with key and set screws.

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 free-hole flange (FF).

Motor-mounting designation in accordance with IEC 60034-7: IM B 5, IM V 1 (Code I) / IM 3001, IM 3011 (Code II).

The motor has built-in thermal protection (PTO current and temperature sensors) in accordance with IEC 60034-11 and requires no further motor protection. The protection reacts to both slow- and quick-rising temperatures, e.g. constant overload and stalled conditions.

As the thermal protection incorporates automatic reset, the motor must be connected in a way which ensures that the automatic reset cannot cause accidents.

Technical data

Liquid:

Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³

Technical:

Rated flow:	7.6 m³/h
Rated head:	7.3 m
Actual impeller diameter:	169 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B

Materials:

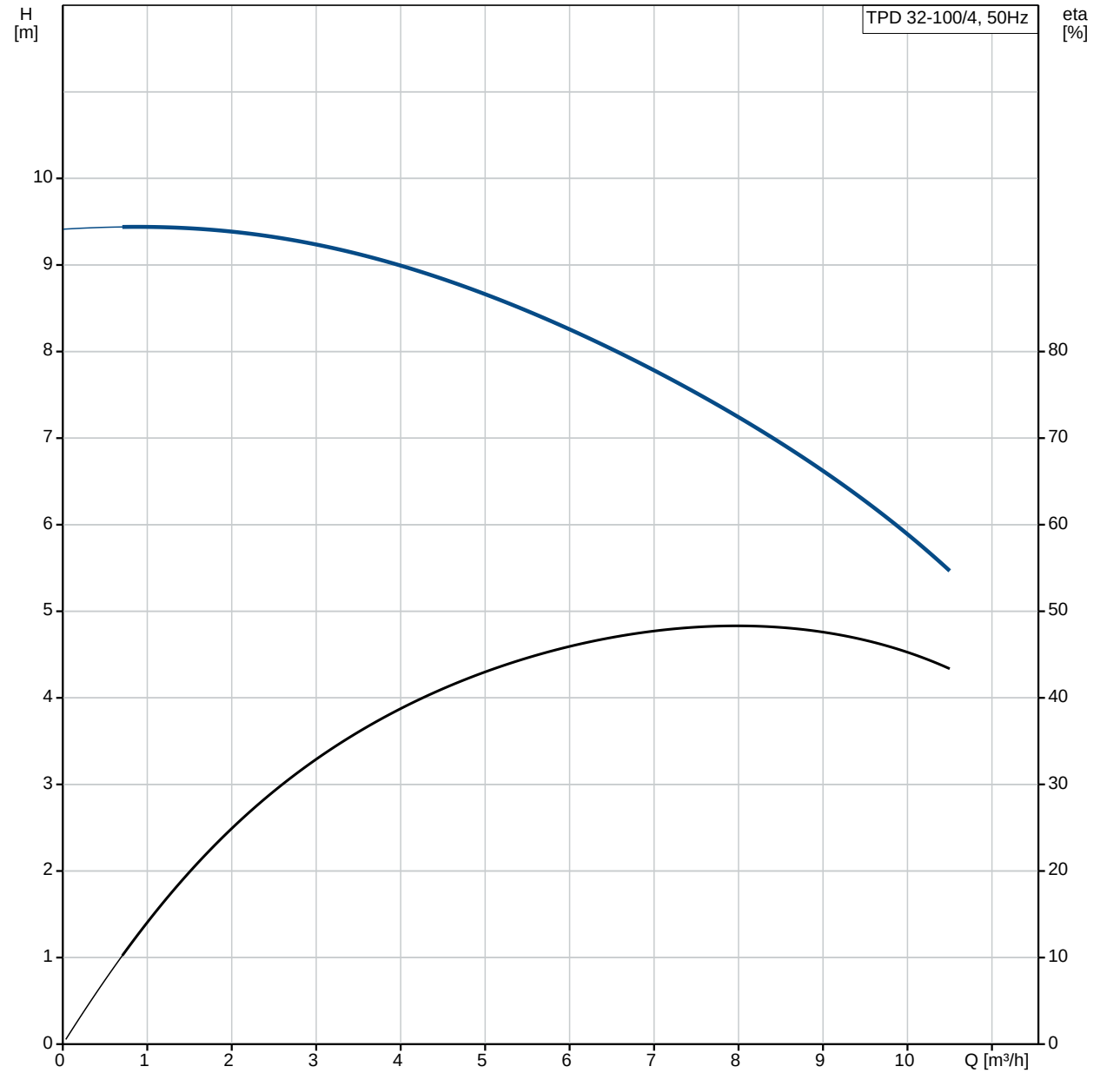
Pump housing:	Cast iron EN-JL1040 ASTM A48-40 B
Impeller:	Cast iron EN-JL1030 ASTM A48-30 B

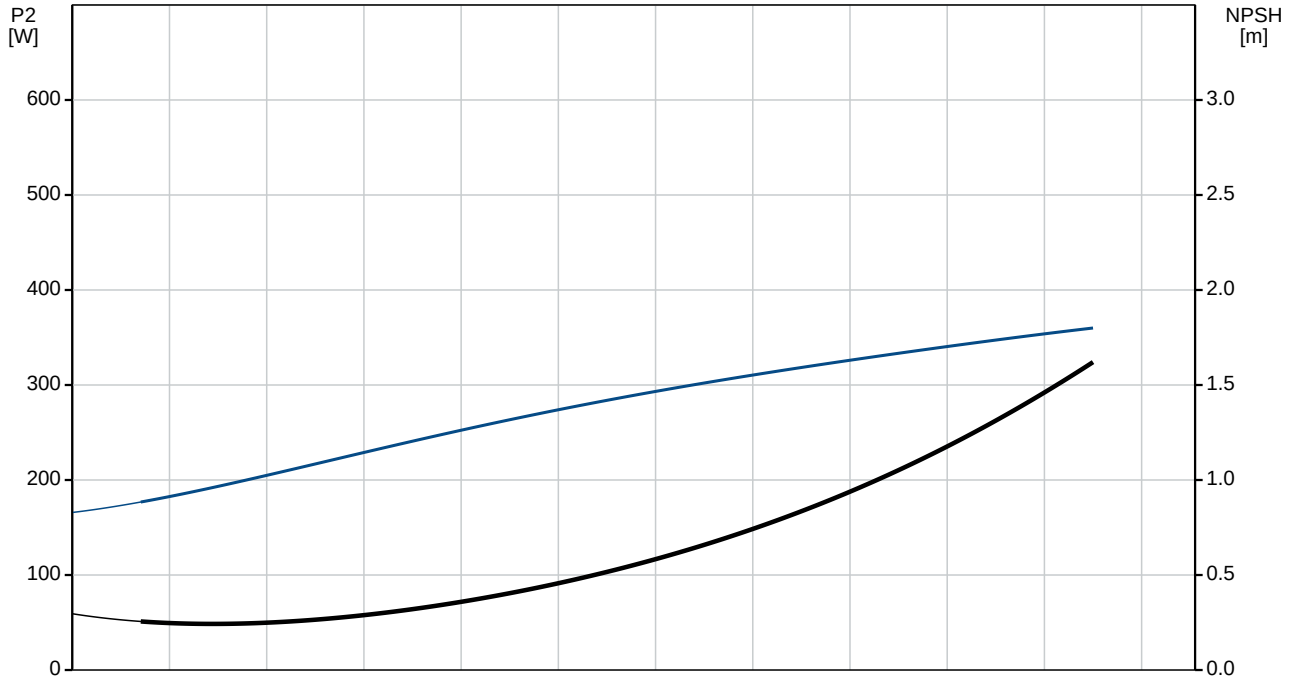
Installation:

Range of ambient temperature:	-30 .. 40 °C
Maximum operating pressure:	16 bar

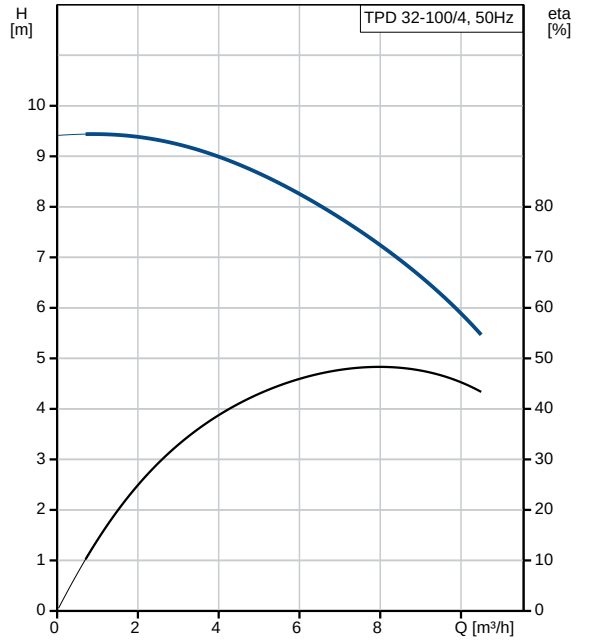
Position	Qty.	Description
		Flange standard: DIN Pipe connection: DN 32 Pump inlet: DN 32 Pump outlet: DN 32 Pressure rating: PN 16 (@): 340 mm Flange size for motor: FF165 **Electrical data:** Motor type: 80A Rated power - P2: 2 x 0.37 kW Power (P2) required by pump: 0.37 kW Mains frequency: 50 Hz Rated voltage: 1 x 220-230 V Rated current: 2.85 A Starting current: 240 % Cos phi - power factor: 0.97 Rated speed: 1350-1370 rpm Motor efficiency at full load: 62-60 % Number of poles: 4 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: 78 kg Gross weight: 92 kg Shipping volume: 0.39 m^3

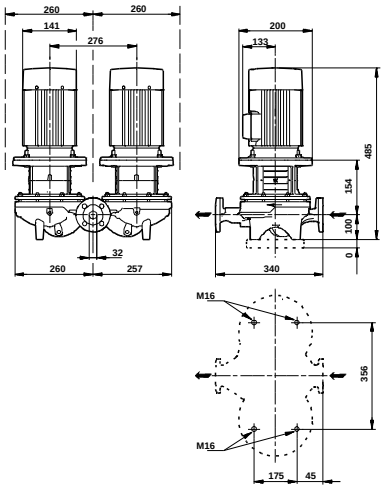
On request TPD 32-100/4 A-F-A-BQQE 50 Hz

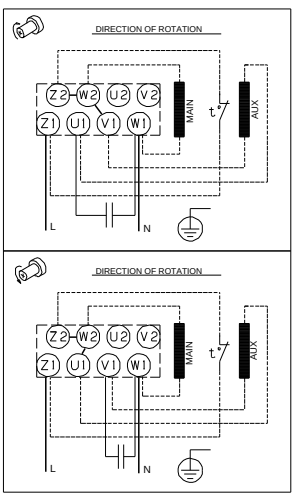




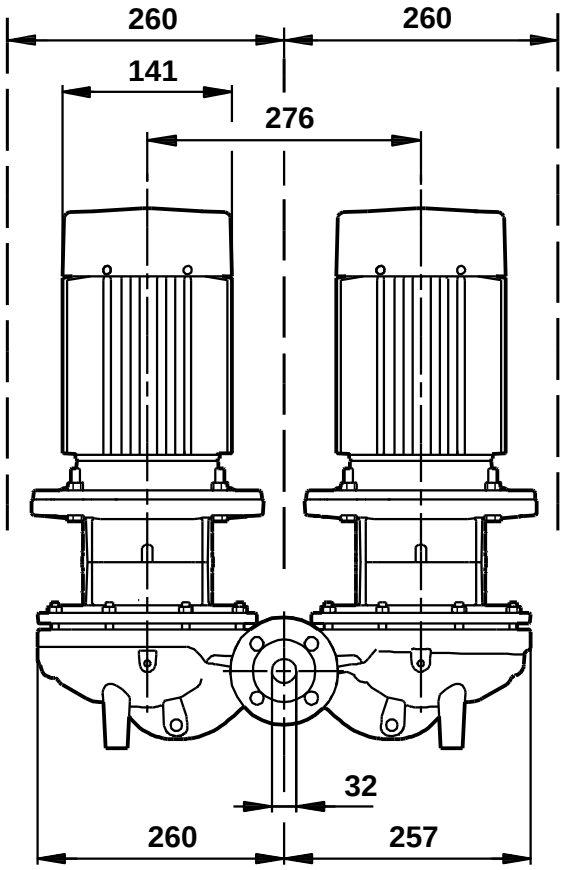
Description	Value
General information:	
Product name:	TPD 32-100/4 A-F-A-BQQE
Product No:	On request
EAN number:	On request
Technical:	
Rated flow:	7.6 m³/h
Rated head:	7.3 m
Head max:	100 dm
Actual impeller diameter:	169 mm
Primary shaft seal:	BQQE
Curve tolerance:	ISO9906:2012 3B
Pump version:	A
Model:	A
Materials:	
Pump housing:	Cast iron
	EN-JL1040
	ASTM A48-40 B
Impeller:	Cast iron
	EN-JL1030
	ASTM A48-30 B
Material code:	A
Installation:	
Range of ambient temperature:	-30 .. 40 °C
Maximum operating pressure:	16 bar
Flange standard:	DIN
Pipe connection:	DN 32
Pump inlet:	DN 32
Pump outlet:	DN 32
Pressure rating:	PN 16
(@)	340 mm
Flange size for motor:	FF165
Connect code:	F
Liquid:	
Pumped liquid:	Water
Liquid temperature range:	-25 .. 120 °C
Liquid temperature during operation:	20 °C
Density:	998.2 kg/m³
Electrical data:	
Motor type:	80A
Rated power - P2:	2 x 0.37 kW
Power (P2) required by pump:	0.37 kW
Mains frequency:	50 Hz
Rated voltage:	1 x 220-230 V
Rated current:	2.85 A
Starting current:	240 %
Cos phi - power factor:	0.97
Rated speed:	1350-1370 rpm
Motor efficiency at full load:	62-60 %
Number of poles:	4
Enclosure class (IEC 34-5):	55 Dust/Jetting
Insulation class (IEC 85):	F
Motor protec:	PTO
Motor No:	87100340
Others:	
Minimum efficiency index, MEI ≥:	0.70
ErP status:	EuP Standalone/Prod.
Net weight:	78 kg
Gross weight:	92 kg
Shipping volume:	0.39 m³

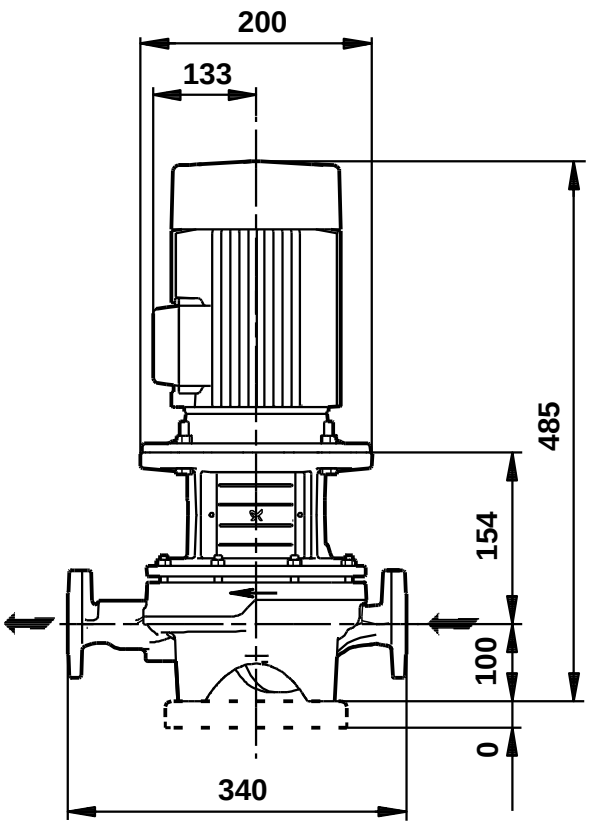


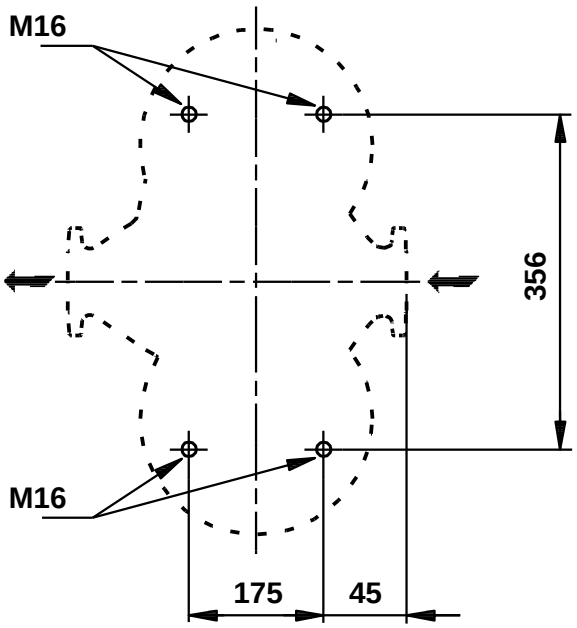




On request TPD 32-100/4 A-F-A-BQQE 50 Hz

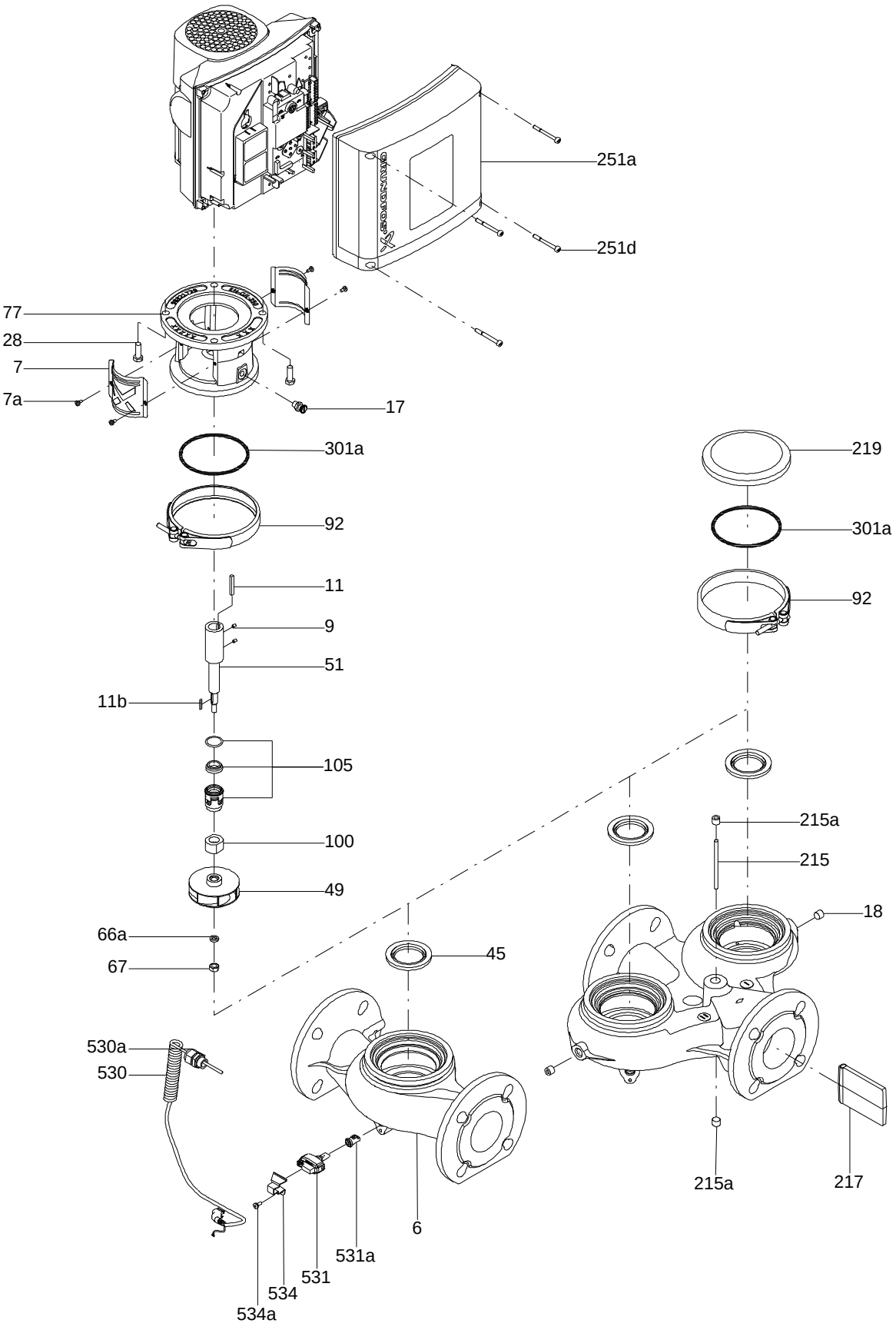




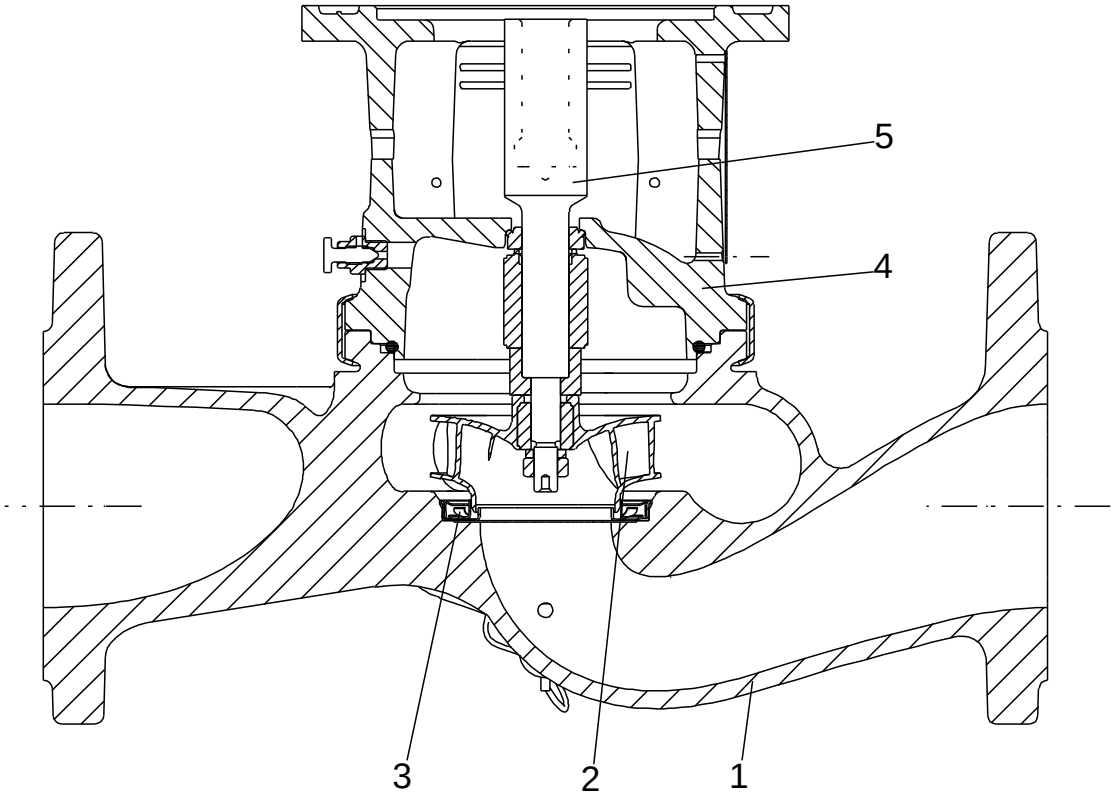


Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

Exploded view

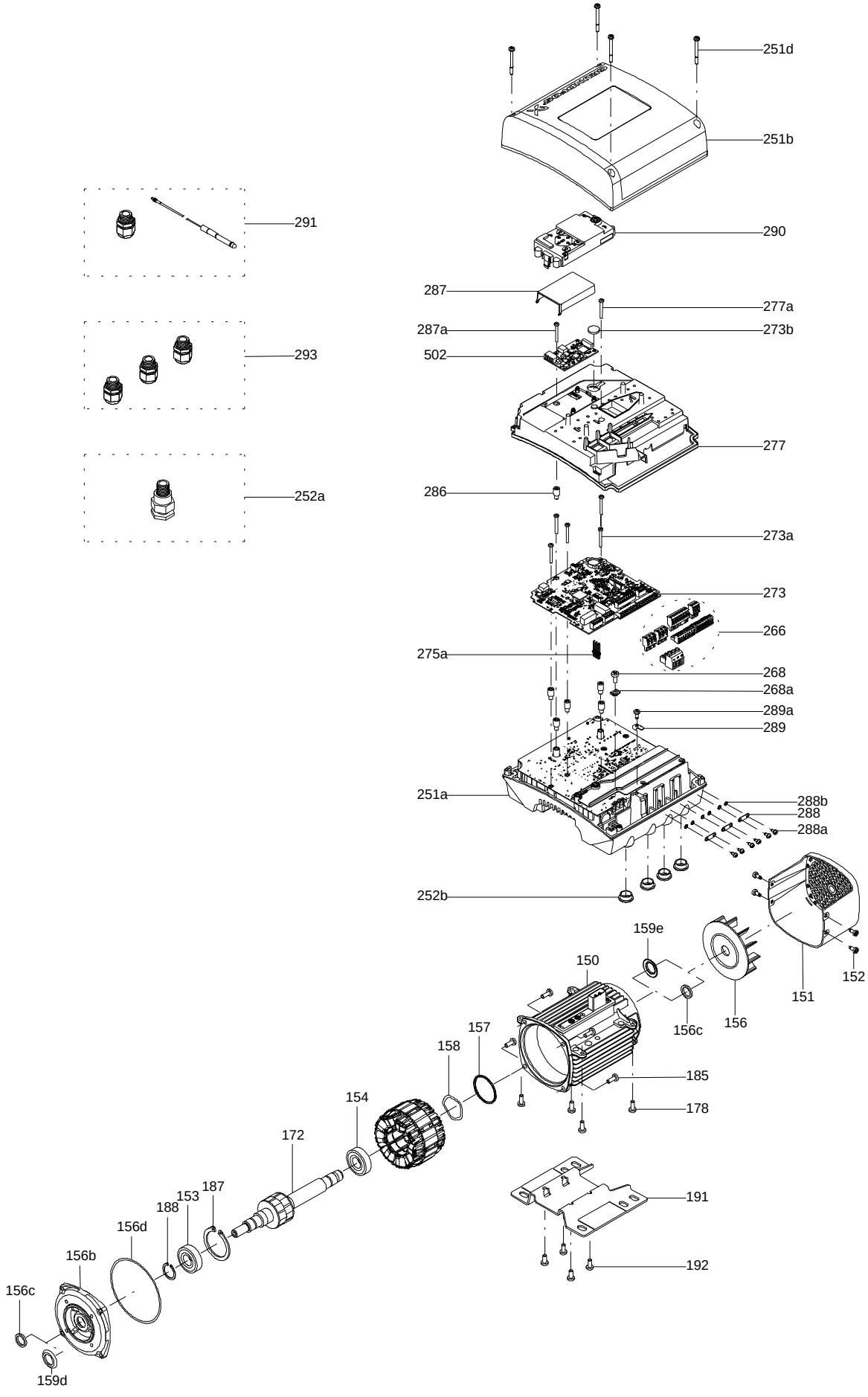


Sectional drawing (TM058200 for TPE2,TPE3)



TM058200

Exploded view (TM057026 for MGE model H/I)



Parts list TPD 32-100/4, Product No. On request
Valid from 20.6.2010 (1024)

	Pos	Description	Annotation	Données de classification	Référence	Quantité	Unité
+		Motor				2	pcs
-		Nut				2	pcs
	66	Washer				1	
	66a	Spring lock washer				1	
	67	Nut		Thread: M14		1	
-		Motor stool cpl.				2	pcs
	1a	Motor stool				1	
	7	Coupling guard				2	
	9	Hex socket head cap screw		Length (mm): 30		4	
				Thread: M10			
	77a	Pan head screw				4	
-		Pump housing cpl.				1	pcs
	6	Pump housing				1	
	9	Hex socket head cap screw		Designation: DIN 912		6	
				Length (mm): 20			
				Thread: M6			
	19	Pipe plug		Thread: R 3/8		2	
	19	Plug				5	
	66a	Nut		Thread: M10		12	
	210	Cover				1	
	212	Gasket				1	
	215	Shaft pin				1	
	216	Helical torsion spring				1	
	217	Valve flap				2	
-		Shaft seal cpl.				2	pcs
	72a	O-ring		Diameter: 177,39		1	
				Material type: EPDM			
				Thickness: 3,53			
	105	Shaft seal				1	
-		Stub shaft				2	pcs
	9	Socket set screw		Length (mm): 6		2	
				Thread: M6			
	11	Parallel key		Dimension: 6X6X35		1	
	51	Pump shaft				1	
	19	Plug				2	pcs
	49	Impeller		Outer diameter: 169		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.

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