

# teknopomp

Teknolojik Pompa ve Hidrofor Sistemleri



CLOSE COUPLED CENTRIFUGAL PUMPS

# TNM



Teknopomp Teknolojik Pompa ve Hidrofor Sistemleri



## TNM- CLOSE COUPLED CENTRIFUGAL PUMPS

### Fields of Application

- TNM pumps are for non-corrosive, not containing solid particles or fiber, clean or slightly dirty (solid particle rate is up to 0,02).
- In water transfer, heating and cooling systems, circulation and fluid transfer, industrial applications.
- 0-450 m<sup>3</sup>/h capacity, 100 m total head.
- Up to 45 kW motor power
- Up to 90°C operation temperature, 10 bar operation pressure

### Structure

- TNM series pumps are volute casing, single stage, end suction, close-coupled centrifugal pumps with closed impeller and mechanical seal.
- Suction and discharge flanges are appropriate for TS EN 1092-2 / PN 16.
- It is used with STANDARD electric motors suitable for VDI standards and IEC structure sizes.
- Thanks to its design allowing to dismantle from the back, the motor, motor carrier, stuff bearing, and impeller can be removed without separating the scroll from the pipe installation.
- Axial force is balanced through back wear ring/balance holes system.

#### Shaft seals:

- Singular mechanical seals that are washed with the thrusted water, non- frigorific and out of balance type.

### Operation Limits

- Operating temperature between -10 and +90°C (please contact us for higher temperatures)
- Ambient temperature up to 40°C
- Max. suction elevation up to 7 m (please consult our firm for suction depth control)
- Maximum permissible operation pressure: 10 bar (16 bar)

### Pump-Motor Coupling

TNM pumps are coupled with a standard electric motor in B5 structure form via a special adaptor. They are in 380 V – 50 Hz. IE3 and IP 55 protection class. Electric motors are appropriate for running with frequency converter.

### Optional Qualities

- Special mechanical seal selection based on liquid type
- AISI 316 pump shaft
- Other motor protection classes
- Exproof motor (suitable for ATEX – 94/9 EEC instructions)
- Other motor voltages
- Operating at 60 Hz.

(Please consult our firm for other operating values controls.)

### Pump Flanges

Appropriate for DIN 2533

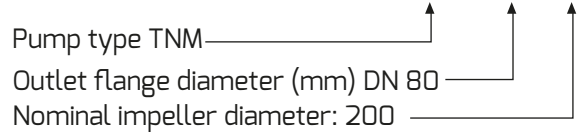
Pump Naming

TNM 80 - 200

Pump type TNM

Outlet flange diameter (mm) DN 80

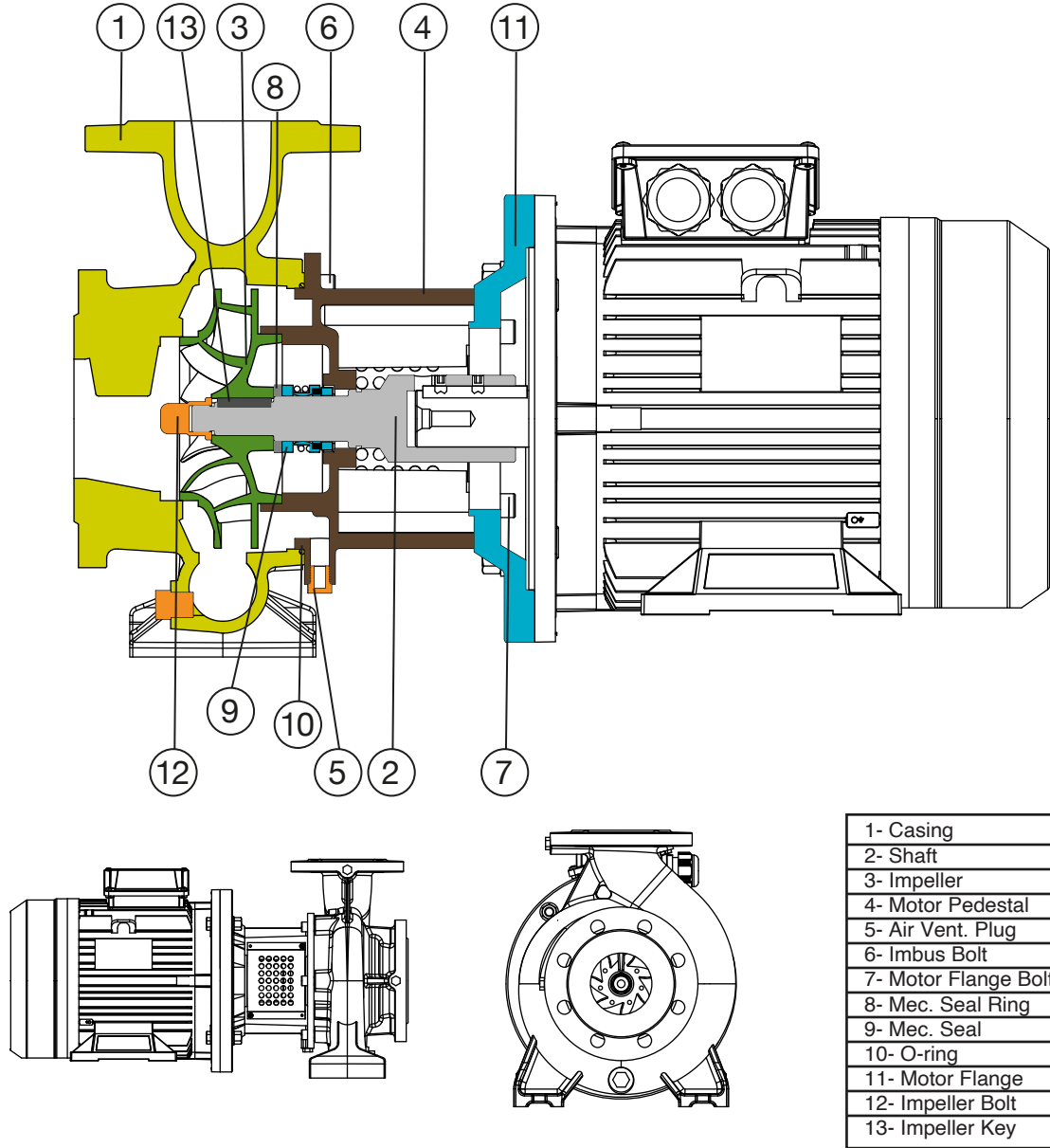
Nominal impeller diameter: 200





**TNM- CLOSE COUPLED CENTRIFUGAL PUMPS**

**Sectional Drawing and Part List**



1- Casing
2- Shaft
3- Impeller
4- Motor Pedestal
5- Air Vent. Plug
6- Imbus Bolt
7- Motor Flange Bolt
8- Mec. Seal Ring
9- Mec. Seal
10- O-ring
11- Motor Flange
12- Impeller Bolt
13- Impeller Key

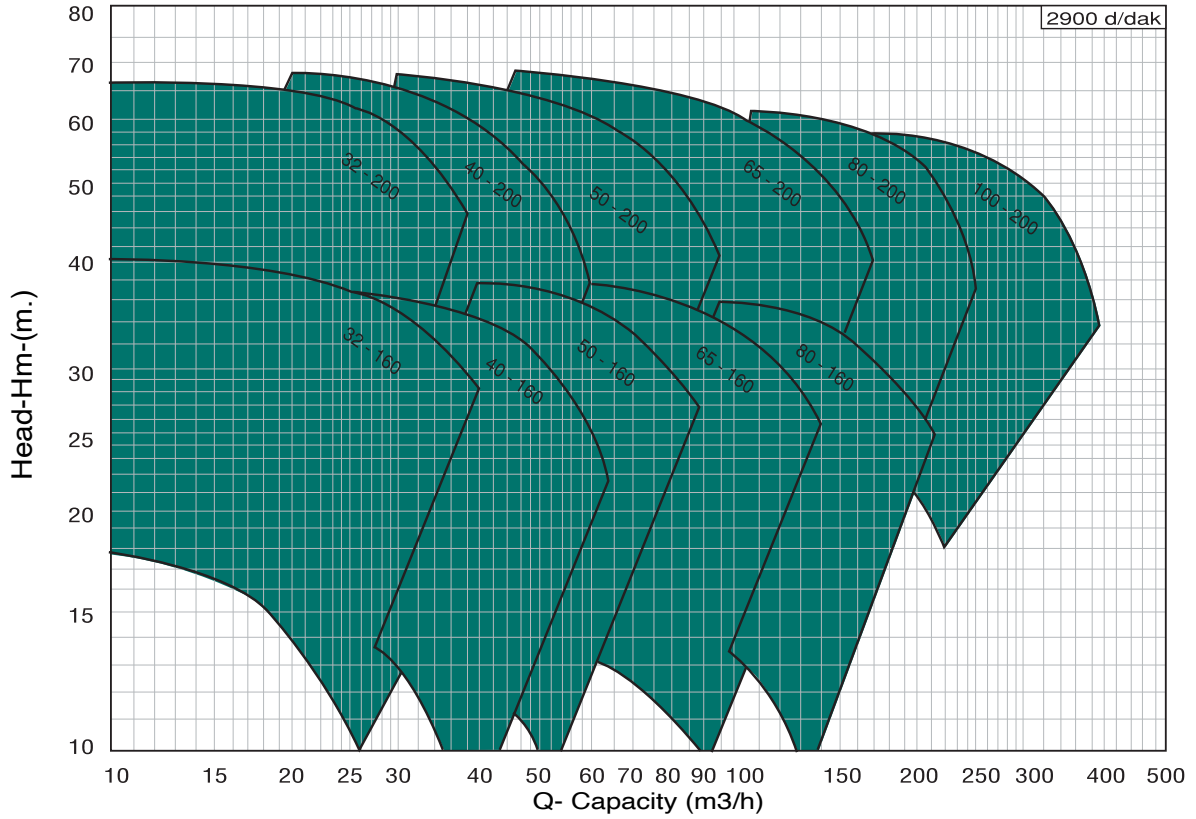
NAME OF THE PART	MATERIAL			
	Standard Prod.	Bronze-Impeller Prod.	Full Bronze Production	Stainless Steel
Body	GG 25	GG 25	Bronze	AISI 304 - 316
Impeller	GG 25	Bronze	Bronze	AISI 304 - 316
Wear ring	Bronze	Bronze	Bronze	AISI 420
Pump shaft	AISI 420	AISI 420	AISI 420	AISI 304 - 316



**TNM- CLOSE COUPLED CENTRIFUGAL PUMPS**

**Technical Data**

**Pump Performance Field (2900RPM)**



**Pump Performance Field (1450RPM)**

