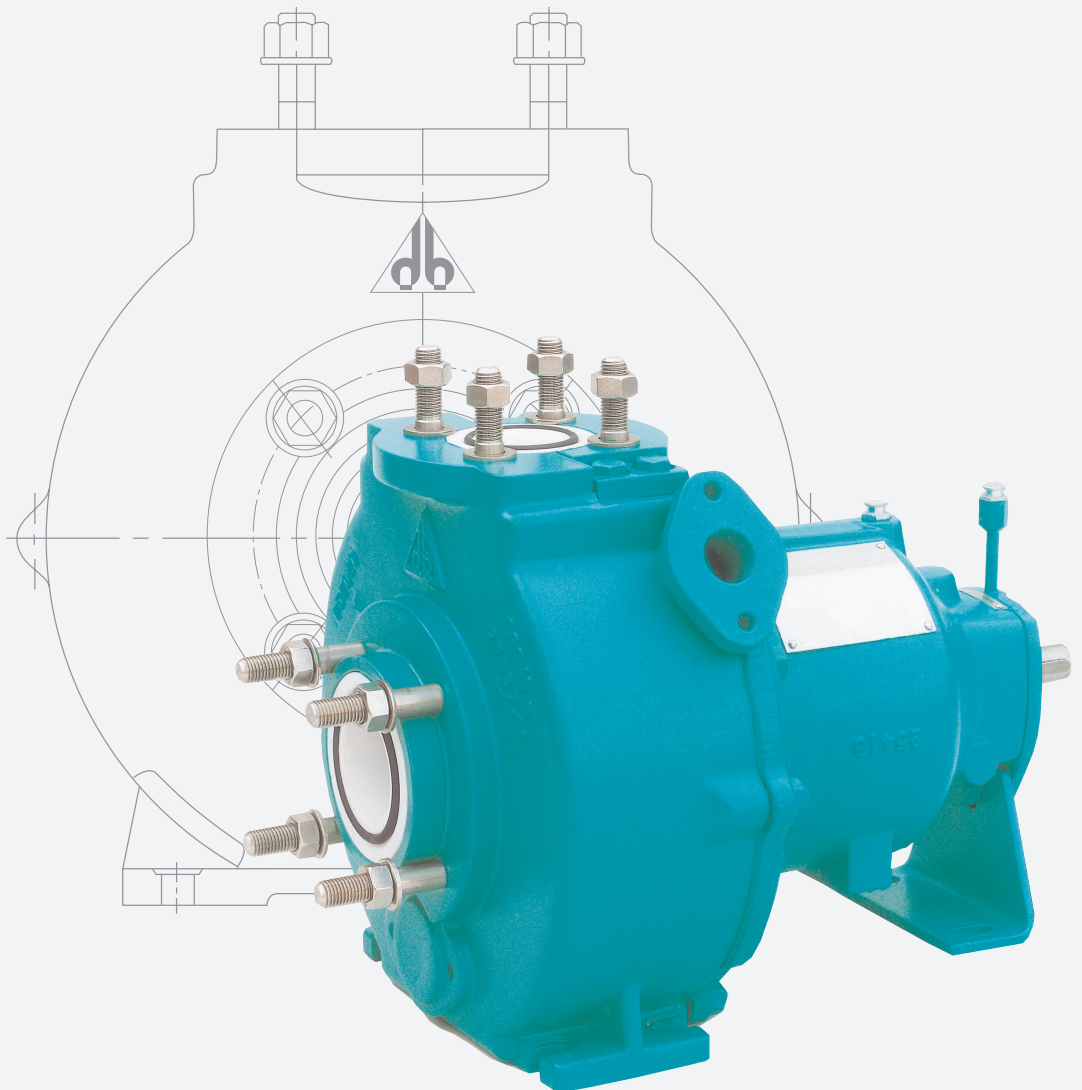


**Standard plastic pump  
with magnetic coupling  
for use in the  
chemical industry  
Type series NM  
ISO 2858 / DIN EN 22858**

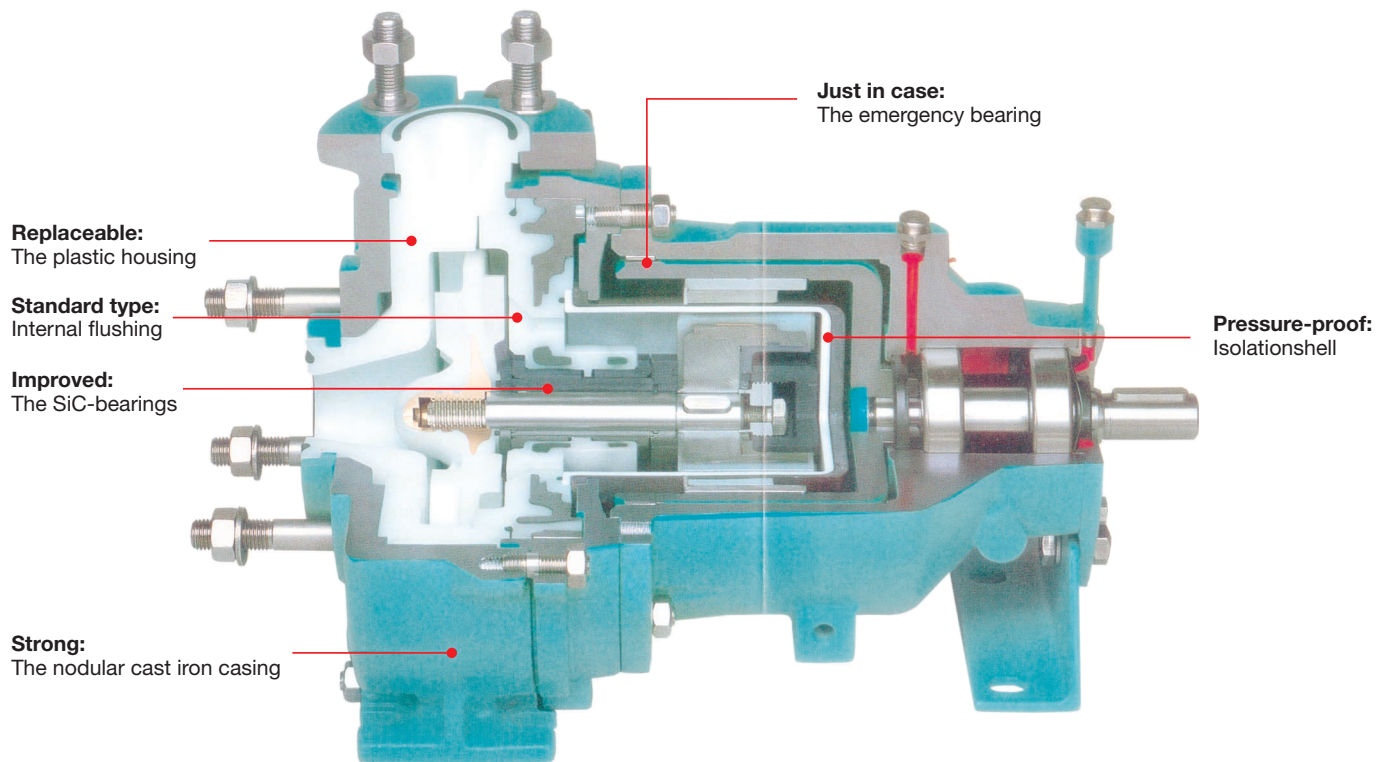


**WERNERT-PUMPEN**



# Standard plastic pump with magnetic coupling for use in the chemical industry Type series NM

ISO 2858 / DIN EN 22858



## Quality based on tradition

If magnetic coupling pumps are needed, trust the manufacturer of the world's first plastic centrifugal pump and opt for the NM type series.

## Magnetic coupling

The drive power is transmitted to the hermetically sealed pump by a permanent magnetic coupling. High quality samarium-cobalt is used as the magnetic material. The fluid-wetted magnetic rotor has an impermeable PFA coating. Couplings with different transmission powers are available depending on the application.

## Isolationshell

The isolationshell is made from carbon fibre compound with PTFE inner shell and naturally, is free from eddy current. It is sealed with a round sealing ring with a defined sealing geometry.

The isolationshell is braced independently of other joins; a "clean" solution.

## Bearing

Impeller, shaft and magnetic rotor are mounted in a tribologically improved silicon carbide slide bearing. The bearing is lubricated by the medium itself via internal ducts. It will withstand brief dry running and also lack of lubrication.

If suspensions or crystallising fluids are pumped, the bearing must be lubricated by flushing the outside of the isolationshell with a suitable, solid-free medium.

## Unit construction

The magnetic coupling pumps are also available as a unit construction (type series FM). In this case, the flange connection dimensions comply with ISO 2858/ DIN EN 22858.

## Non chocable pump

Each magnetic coupling pump is also available as a non chocable pump model for pumping fluids with coarse solids (indicated with the 4th letter: F).

## Materials:

The choice of plastics depends on the chemical, thermal, mechanical and abrasive loads.

The following plastics are used to make the standard chemical pump and are indicated by the 3rd letter of the type reference.

### NMPO/NMPF:

Ultra high molecular  
Low pressure polyethylene  
(UHMW-PE)

### NMBO:

Polypropylene (PP)  
(size 40-25-160 only)

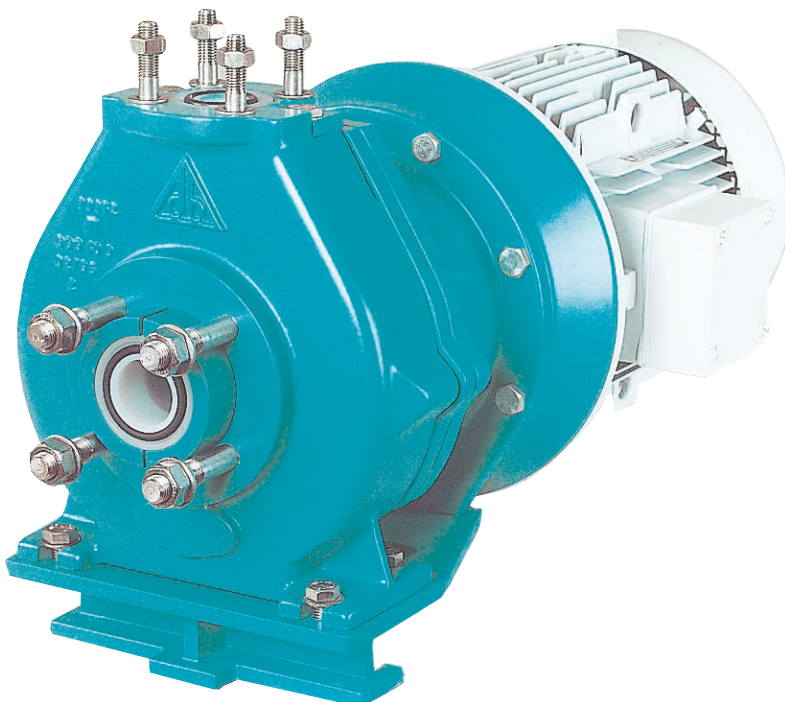
### NMKO/ NMKF:

Polyvinylidene fluoride (PVDF)

### NMTO/NMTF:

Polytetrafluorethylene (PTFE) or  
Perfluoralkoxy (PFA)

The temperature range in which these materials can be used depends on the medium and is between -50° C and + 160° C.



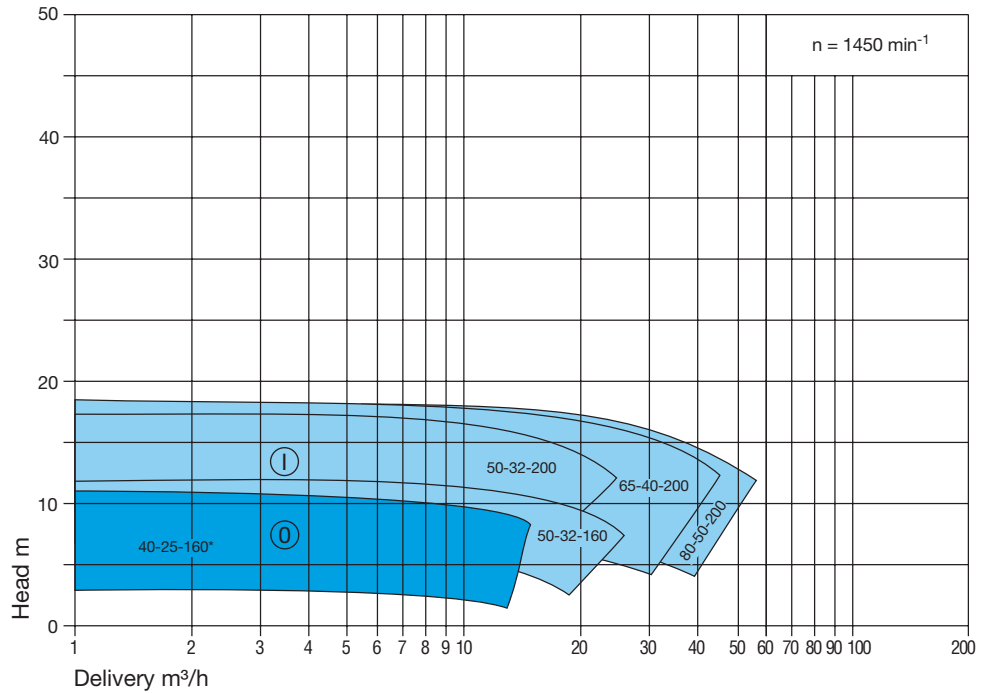
type series FM

Special applications on request.  
We reserve the right to make technical modifications.

\*Transnorm pump



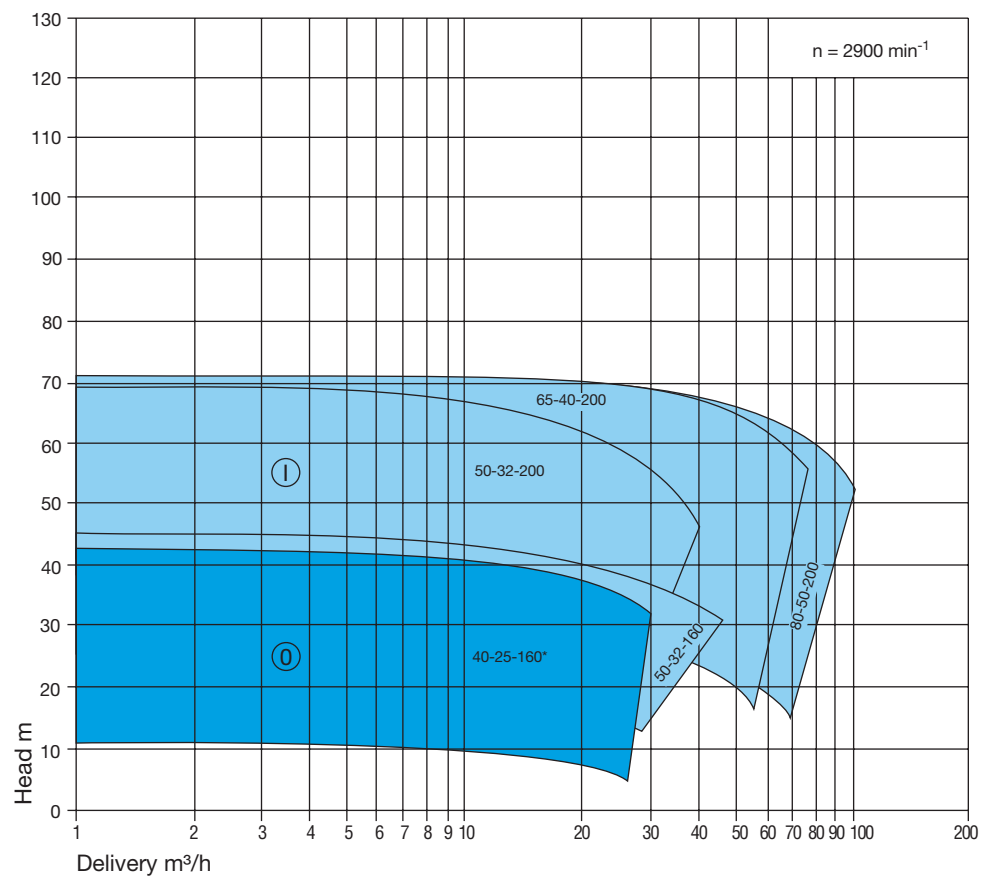
Pump with the same bearing support size.

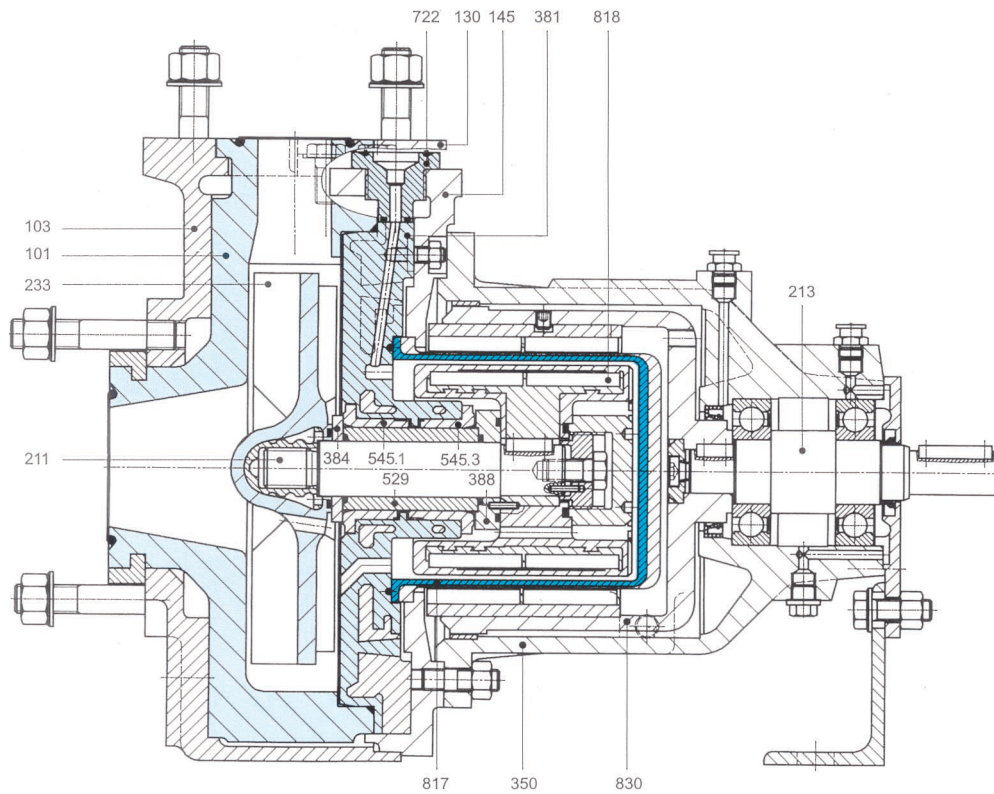


\*Transnorm pump



Pump with the same bearing support size.

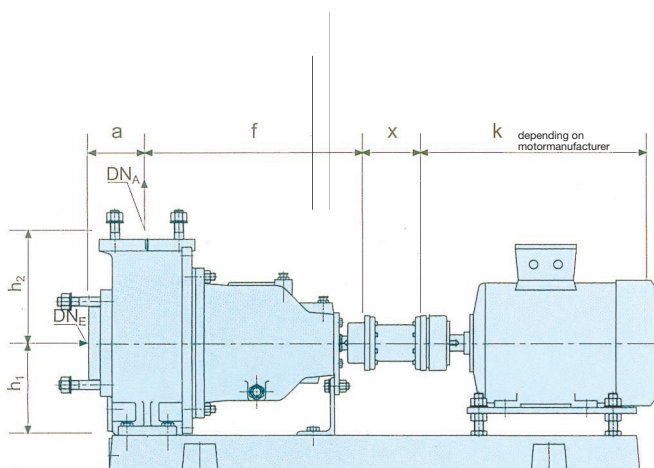




Part-No.	Name
101	Pump casing
103	Annular casing
130	Part of the casing
145	Connecting piece
211	Pump shaft
213	Drive shaft
233	Lefthand impeller
350	Bearing housing
381	Bearing insert
384	Thrust bearing plate
388	Counter thrust bearing plate
529	Bearing sleeve
545.1	Bearing bush
545.3	Bearing bush
722	Flange transition
817	Isolationshell
818	Rotor
830	Driver

The type illustrated is the one with semi open impeller. At the top with external flushing and internal flushing at the bottom.  
Only order spares according to the relevant parts list!

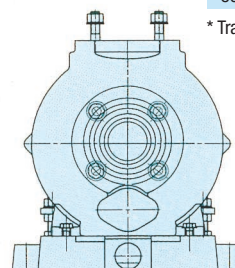
**Dimensions table**



Typ NM	Flanges PN 16						
	DN <sub>E</sub>	DN <sub>A</sub>	a	f	h <sub>1</sub>	h <sub>2</sub>	x
40-25-160*	40	25	80	385	132	160	100
50-32-160	50	32	80	385	132	160	100
50-32-200	50	32	80	385	160	180	100
65-40-200	65	40	100	385	160	180	100
80-50-200	80	50	100	385	160	200	100

\* Transnorp pump

Dimensions in mm



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