

# INM GenIO

In-line Centrifugal Pumps with  
Frequency Inverter on Motor



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<b>Suction Flange</b>	DN 40...DN 200
<b>Discharge Flange</b>	DN 40...DN 200
<b>Operating Pressure</b>	10 Bar
<b>Casing Test Pressure</b>	13 Bar
<b>Operating Temperature</b>	-25 - 120°C
<b>Flow Range</b>	2 – 360 m <sup>3</sup> /h
<b>Man. Head Range</b>	2 - 105 m
<b>Speed Range</b>	1000 - 3600 rpm



## Fields of Applications

Water supply and pressurization plants

Irrigation, sprinkling and water drainage

Hot or cold water circulation in heating and cooling systems

Filling and emptying of warehouses and tanks,

Industrial processes

## Design Specifications

It consists of two single-stage, non-self-priming, in-line centrifugal pumps.

Basic dimensions and nominal flow rates are designed according to DIN 24255 and EN 733 standards.

Single-suction, closed-type impeller; equipped with back rings to compensate axial loads and dynamically balanced.

The flanges comply with DIN 2535 and are PN 16 pressure class. The suction and discharge flanges are identical and on the same axis. Both flanges have pressure relief holes.

The inverter integrated in the system has a compact structure and is used in smart applications.

The frequency inverter is easily mounted on the motor.

The motor is coupled to the pump by mounting the motor shaft onto the pump shaft via an adapter and flange.

The pump shaft, impeller and other parts can be removed without interfering with the suction and discharge pipes or the casing, which greatly simplifies installation and maintenance.

## Shaft Specifications

The motor shaft is manufactured to be mounted to the pump shaft; however, after a certain power, the pump and motor shafts are connected with a separate coupling.

## Sealing Applications

Mechanical seals are used as standard.

The mechanical seal is lubricated with pumped liquid

## Bearings

The motor shaft is engaged to the pump shaft. After a certain engine power, the pump shaft and the motor shaft are connected with a separate coupling. The motor bearings are sufficient to carry the axial and radial loads. These bearings are filled with a lifetime supply of heat-resistant grease.

## Frequency Inverter Features

It is compatible with induction and PMSM motors. It offers the flexibility to run properly with different motor types.

It can operate in the 0.75 - 18.5 kW power range and provides an output frequency of 0-600 Hz. It can be used in a wide variety of applications thanks to its wide operating range.

It offers precise system control with advanced PID control and dual pressure transmitter support. It provides uninterrupted operation thanks to its backup feature in case of transmitter failures.

Instant system data (pressure, frequency, current, output power, etc.) can be monitored on the graphic LCD screen.

The user-friendly interface allows easy monitoring of system performance.

It is focused on energy efficiency; It saves energy by automatically reducing output voltage at low loads.

It increases system security by running together with water leak detection systems.

Mod-Bus communication protocol and 24 V external device supply support are available. It provides easy integration into automation systems.

## Pump Tagging

**INM GenIO 100 – 200**

Series Name

Accessory

Discharge Flange Nominal Diameter (mm)

Impeller Nominal Diameter (mm)

PART	MATERIAL					
	Cast Iron GG25	Ductile Cast Iron GGG40	AISI 420	AISI 304	AISI 316	Cast Bronze CuSn10
Pump Casing	●	○		○	○	○
Adapter	●	○		○	○	○
Impeller	●	○		○	○	○
Shaft			●	○	○	
Motor Flange	●	○		○	○	○
Wearing Ring	●	○		○	○	○

● Standard Material  
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○ Optional Material

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