



SINCE 1950

# GOLDEN

## Multistage Pumps



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## Function:

This series of pumps are basically centrifugal pumps containing two or more impellers mounted on the same shaft. If higher pressure is needed at the outlet, then impellers are connected in series. All energy added to the fluid comes from the power of the electric or other force driving the impeller.

Basically, this is a centrifugal pump that uses rotating impellers to create flow by the addition of energy to a fluid. Centrifugal pumps are commonly used to move liquids through piping. The fluid enters the pump impeller along or near to the rotating axis and is accelerated by the impeller, flowing radially outward into a volute chamber/casing, from where it exits into the downstream piping.

## Application:

The centrifugal multistage horizontal pumps of series GMS are used for system of high pressure lifting, irrigation, refrigeration, heating, cleaning, in-boiler systems and in fire-fighting systems.

## Pump Construction:

Centrifugal multistage horizontal pumps driven by coupling with electric motors / diesel engines, anti-clock wise rotation looked from drive side. Suction body axial inlet, intermediate stage composed of stage body and corresponding diffuser with wearing rings and replaceable impeller seats are in grey cast iron. Delivery body with upward outlet, with the possibility of turning 90° both directions also in grey cast iron. Drive side bearing support with high rigidity. Suction side support of sliding type, lubricated with pumped liquid. Impeller in stainless steel material. Shaft in stainless steel completely protected. Adjustable packing seal on the shaft, in alternative balanced mechanical seal, according to the working pressure. External tie rod for tightening of the intermediate stages.

## Pump Performance Data:

Capacity up to:	42 US gpm (max.)
Head up to:	112 m (max.)
Speed:	2900 rpm
Inlet:	1.5"
Outlet:	1.25"
The pumped liquid has to be chemically and mechanically suitable for the utilized materials.	
Maximum temperature of pump's liquid	-15°C to +120°C
Maximum ambient temperature	40°C
Maximum working pressure	11 bar



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## Installation:

Pump must be installed with the motor/diesel engine shaft in the horizontal position.

## Performance Chart:

MODEL	MOTOR REQUIRED (HP)	rpm	HEAD (m)	DISCHARGE (US gpm)
GMS - 2	5	2900	14 ~ 42	42 ~ 20
GMS - 3	5		29 ~ 56	42 ~ 20
GMS - 4	7.5		42 ~ 70	42 ~ 20
GMS - 5	7.5		56 ~ 88	42 ~ 20
GMS - 6	10		58 ~ 97	42 ~ 20
GMS - 7	10		65~101	42 ~ 20
GMS - 8	15		66 ~ 107	42 ~ 20
GMS - 9	15		80 ~ 112	42 ~ 20



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