

# GS SERIES

## SUBMERSIBLE PUMPS FOR 4" WELLS

### APPLICATIONS

- Water supply.
- Sprinkler systems.
- Pressure boosting.
- Fire-fighting.

### SPECIFICATIONS

- **Delivery** up to **21 m<sup>3</sup>/h.**
- **Head** up to **340 m.**
- **Maximum** pump overall **diameter** (cable cover included): **99 mm.**
- **Maximum** immersion **depth: 150 m.**
- Maximum permissible **quantity of suspended sand: 100 g/m<sup>3</sup>.**
- 1GSL - 2GS - 4GS - 6GS versions (radial impellers): 1 1/4" delivery port.
- 8GS - 12GS - 16GS versions (semi-axial impellers): 2" delivery port.
- Rated motor **power** from **0.25 to 7.5 kW.**
- Versions:
  - Single-phase** 220-230 V or 230-240 V, 50 Hz, from 0.25 to 2.2 kW.
  - Three-phase** 380-415 V, 50 Hz, from 0.37 to 7.5 kW.- Overload protection to be provided by user and installed in the control box (see control box section).- Maximum supply voltage variations: +6%/-10%
- Maximum number of **starts per hour**, at regular intervals: **30** (4OS motor), **20** (F4 motor).
- Horizontal operation up to 2.2 kW with 4OS or F4 series motors, with F4 motor for higher powers.
- Maximum **temperature** of water in contact with the motor: **30°C.**

### CONSTRUCTION CHARACTERISTICS

#### PUMP

- Abrasion resistant construction. The front wear plate, combined with the floating impellers, ensures optimum resistance to abrasion.
- The non-return valve is integrated in the head so as to discharge the weight of the column of water and any water hammer onto the head itself, thus safeguarding impellers and diffusers.



- The upper and lower supports are made of precision-cast stainless steel, ensuring resistance to corrosion, durability and a sturdy coupling to the motor.
- The GS series pumps can be coupled to either 4OS or F4 motors.

#### MOTOR

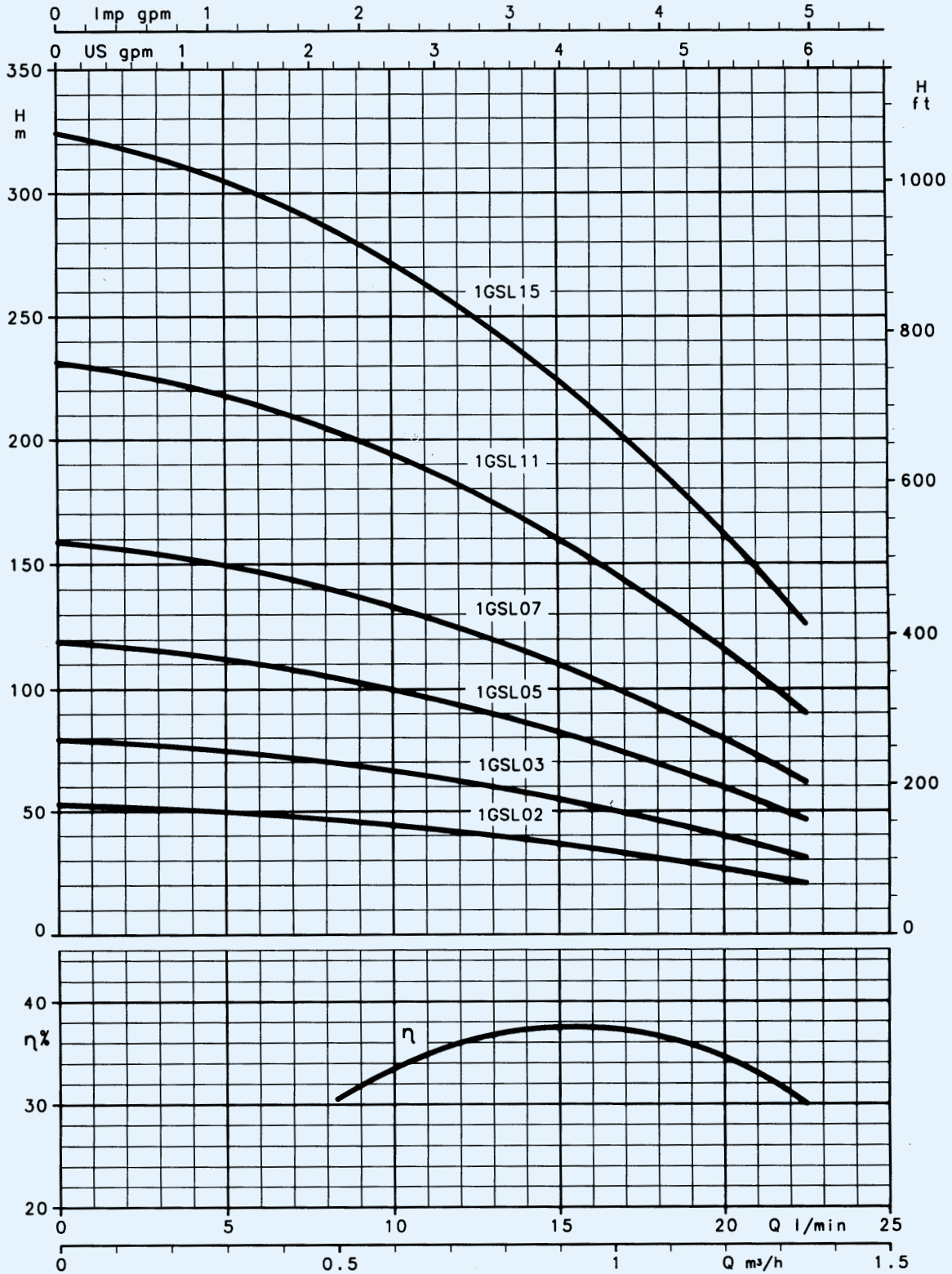
For 4OS motor characteristics, please see specific section in this catalogue.

### TABLE OF MATERIALS

PART	MATERIAL
Upper head, Valve cap, Valve seat	STAINLESS STEEL (AISI 303 - DIN 1.4305)
Valve gasket	NITRILE RUBBER
Valve stop ring	STAINLESS STEEL (AISI 302 - DIN 1.4319)
Upper support	POLYCARBONATE/FIBERGLASS
Bearing	POLYURETHANE
Diffuser, impeller	POLYCARBONATE/FIBERGLASS
Diffuser case, Shim, Pump shaft, Outer sleeve, Spacer, Filter, Coupling, Cable cover	STAINLESS STEEL (AISI 304 - DIN 1.4301)

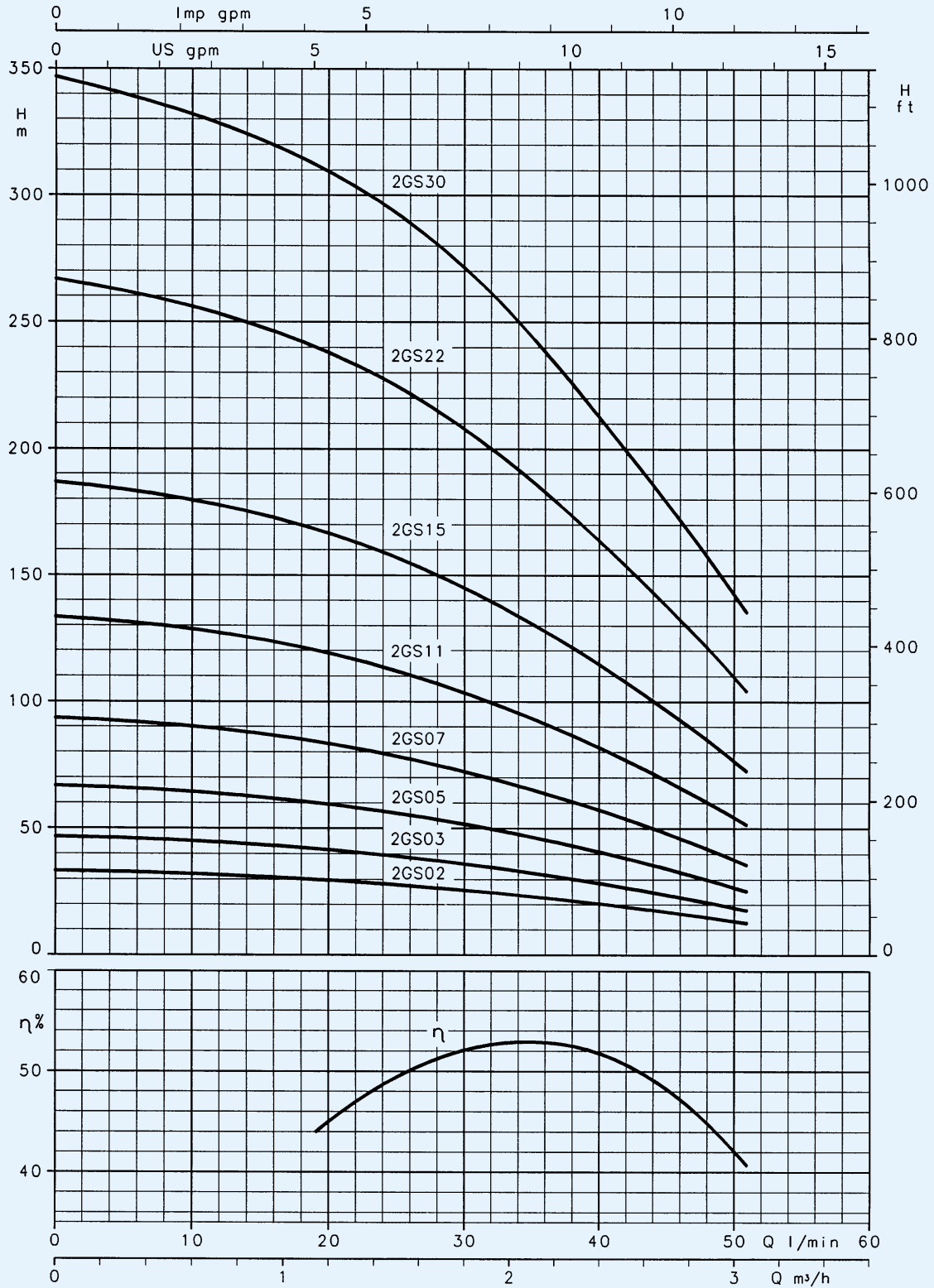
All the nitrile rubber, polyurethane and polycarbonate components are suitable for usage with foodstuffs and comply with FDA specification (the Food and Drug Administration is the US agency for the safeguard of public health).

**1GSL SERIES  
OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz**



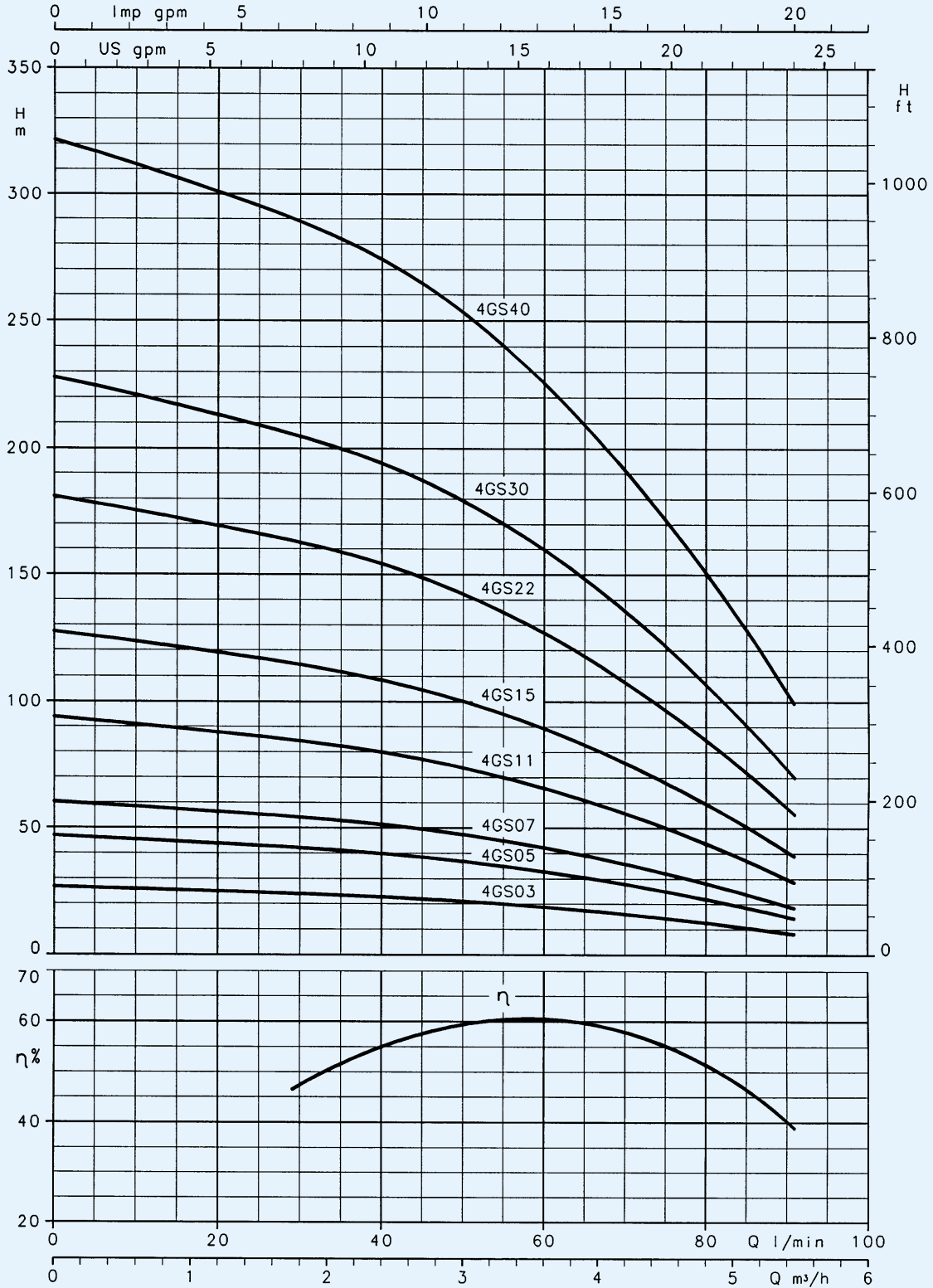
These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

## 2GS SERIES OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz



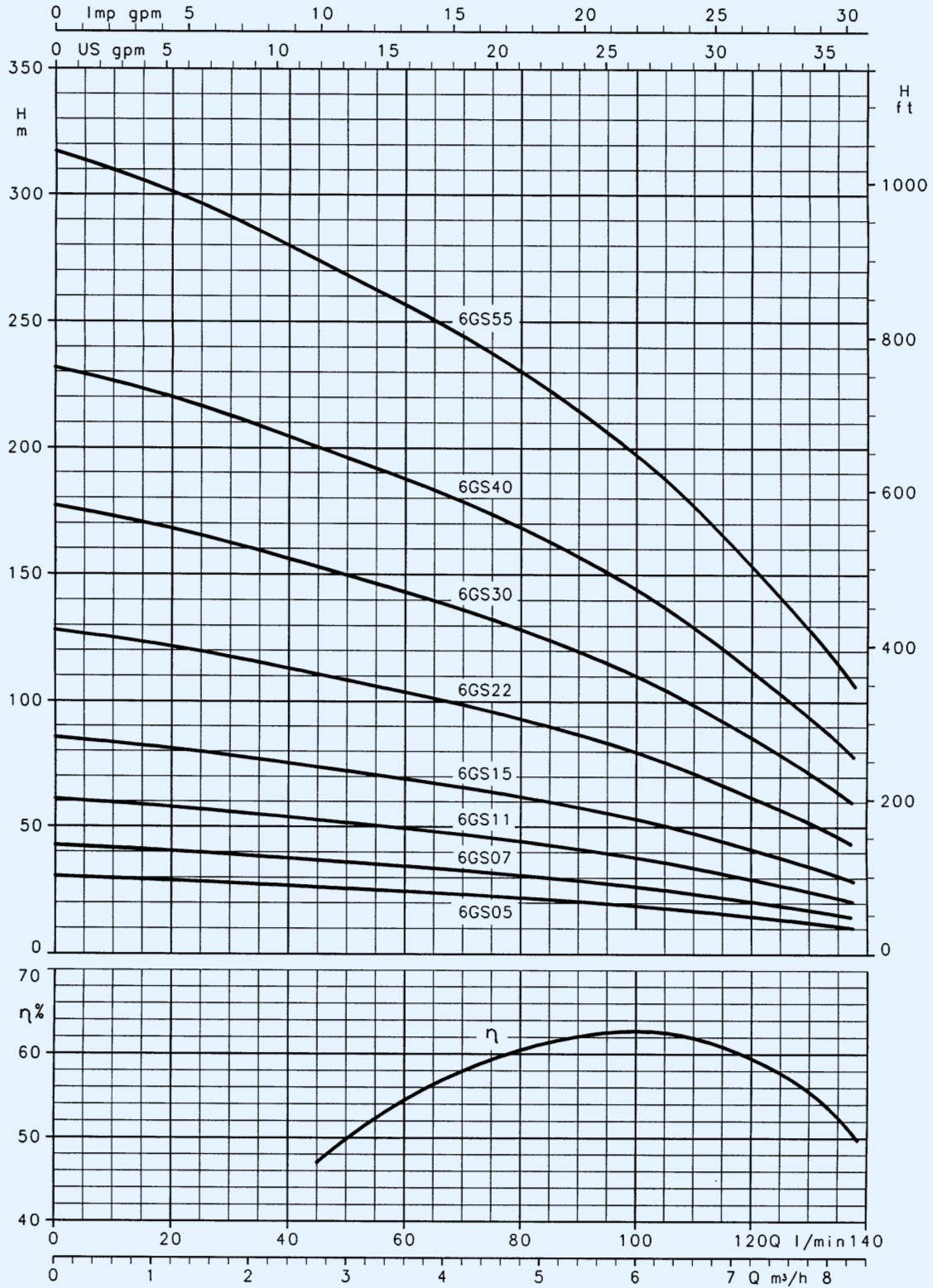
These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

## 4GS SERIES OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz



These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

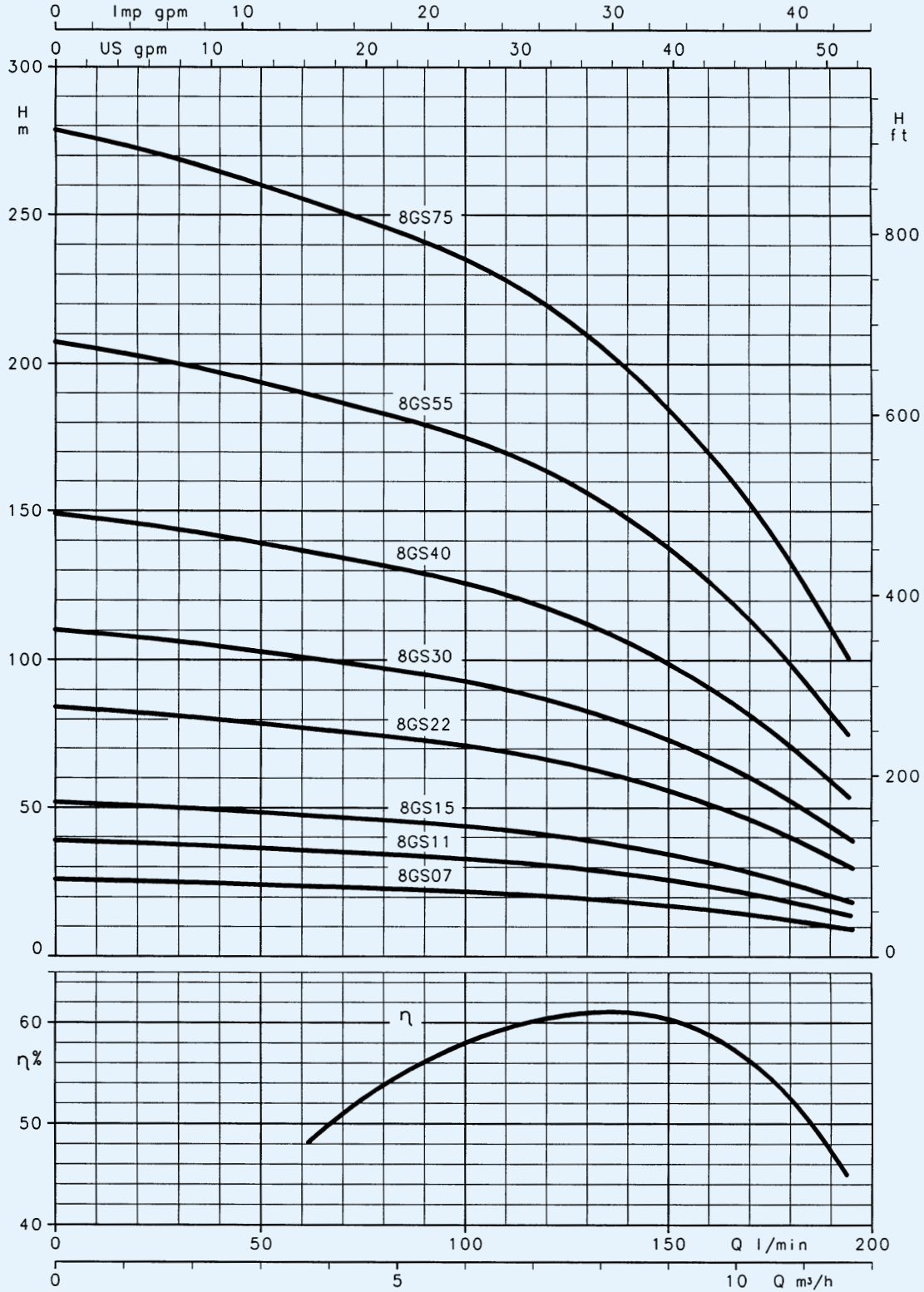
## 6GS SERIES OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz



These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

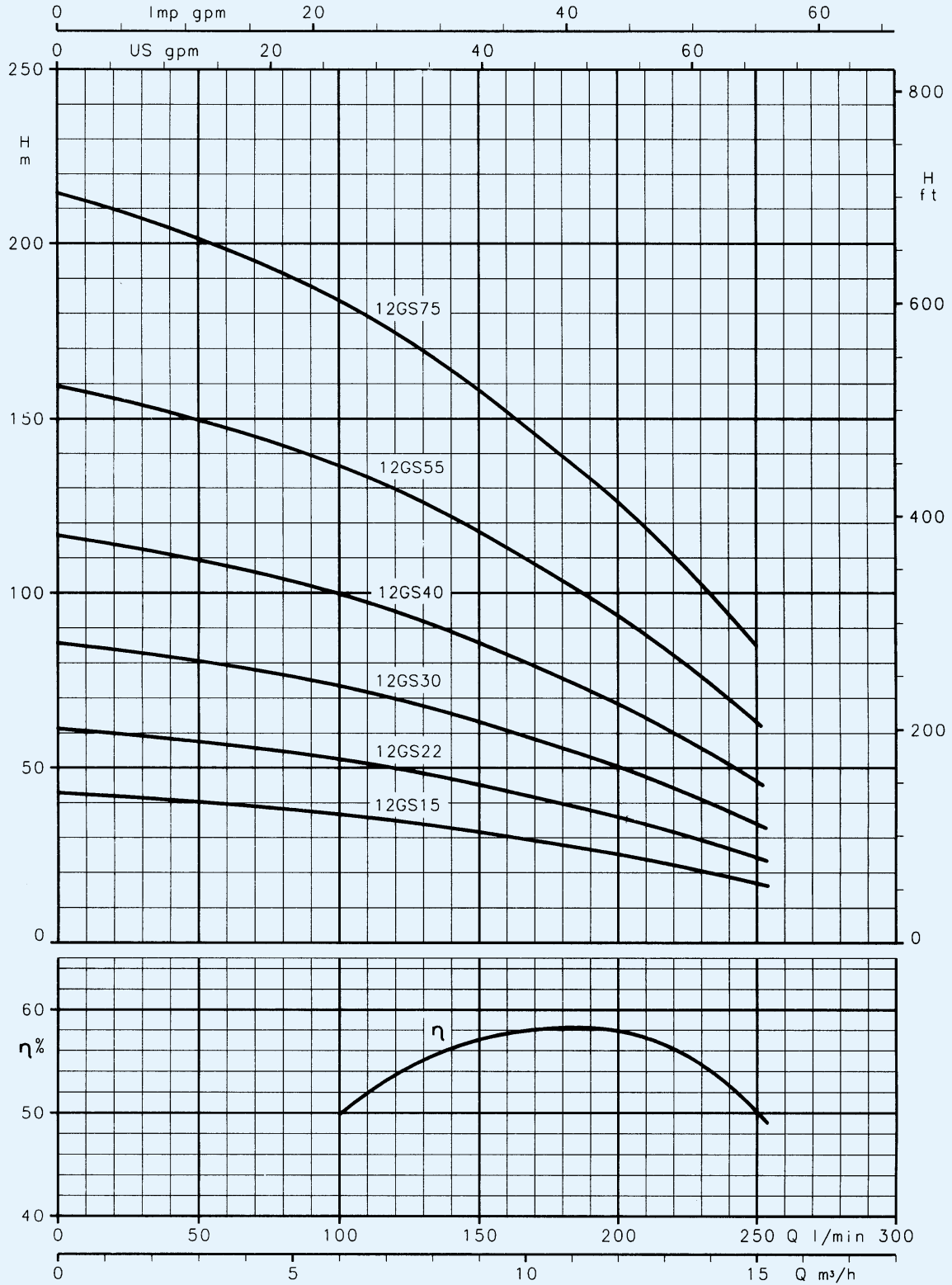


## 8GS SERIES OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz



These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

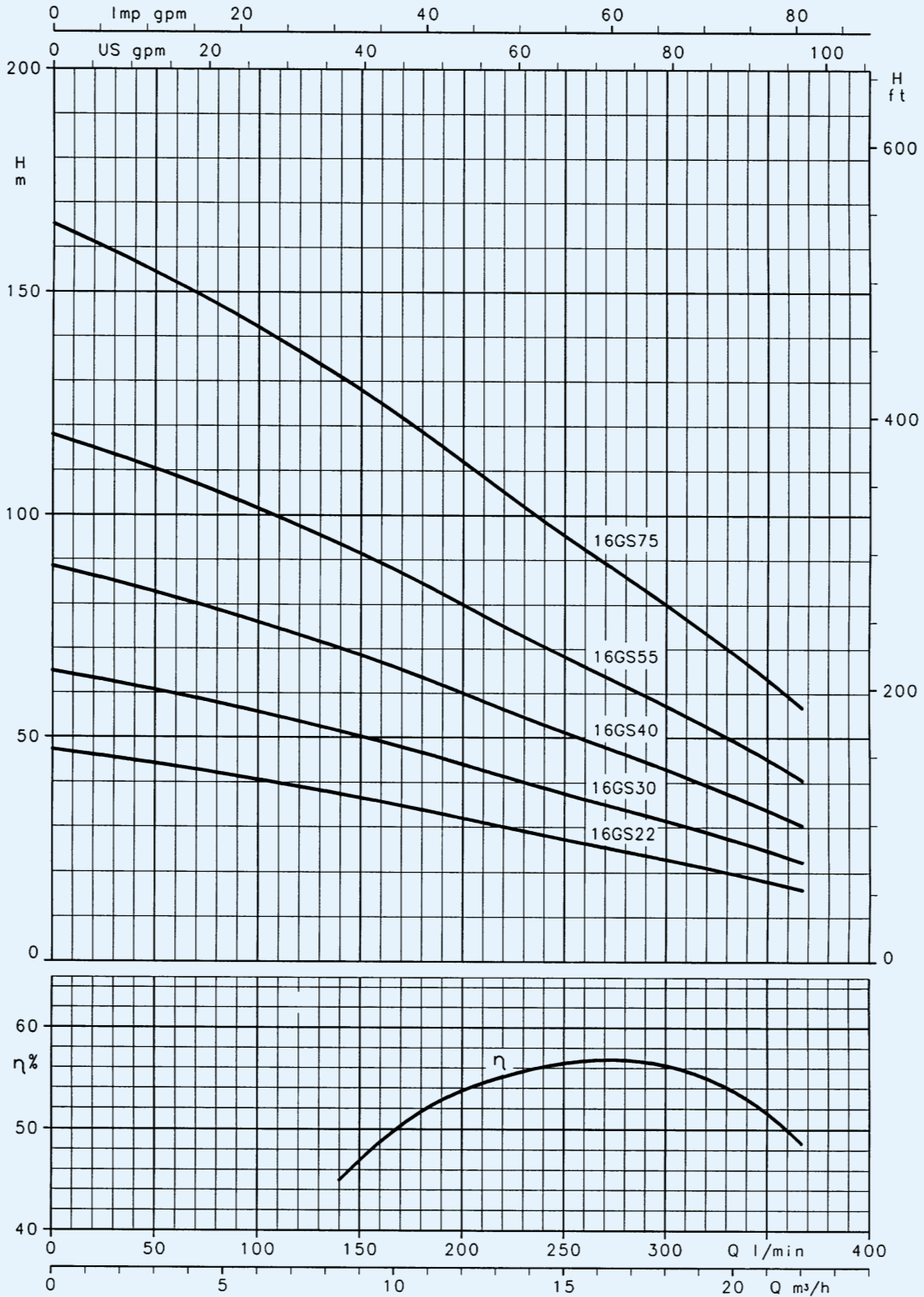
**12GS SERIES  
OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz**



These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .



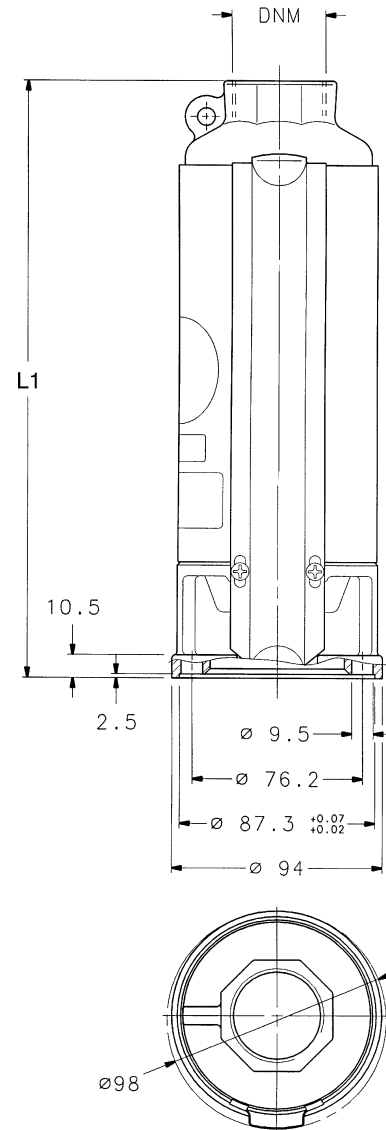
## 16GS SERIES OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz



These performances are valid for liquids with density  $\rho = 1.0 \text{ kg/dm}^3$  and kinematic viscosity  $\gamma = 1 \text{ mm}^2/\text{sec}$ .

## DIMENSIONS AND WEIGHTS, GS SERIES

PUMP TYPE	No. STAGES	DIMENSION L	DNM	WEIGHT kg
1GSL02	8	298	Rp 1" 1/4	3,1
1GSL03	12	367		3,9
1GSL05	18	472		4,9
1GSL07	24	577		5,8
1GSL11	35	799		8,3
1GSL15	49	1043		11,4
2GS02	5	245		2,6
2GS03	7	280		2,9
2GS05	10	332		3,5
2GS07	14	402		4,2
2GS11	20	507		5,3
2GS15	28	677		7,1
2GS22	40	886		9,7
2GS30	52	1095		11,8
4GS03	4	244		2,5
4GS05	7	309		3,1
4GS07	9	352	3,5	
4GS11	14	460	4,6	
4GS15	19	568	5,7	
4GS22	27	770	7,6	
4GS30	35	943	9,2	
4GS40	48	1223	12,4	
6GS05	5	328	3,5	
6GS07	7	390	4,2	
6GS11	10	483	5,1	
6GS15	14	645	6,8	
6GS22	21	862	9,1	
6GS30	29	1102	11,4	
6GS40	38	1381	14,3	
6GS55	52	1815	18,9	
8GS07	4	299	3,2	
8GS11	6	361	3,8	
8GS15	8	423	4,5	
8GS22	13	578	6	
8GS30	17	740	7,8	
8GS40	23	926	9,6	
8GS55	32	1197	12,4	
8GS75	43	1538	15,8	
12GS15	7	539	5,2	
12GS22	10	733	7,4	
12GS30	14	940	9,5	
12GS40	19	1200	12,1	
12GS55	26	1556	15,9	
12GS75	35	2023	20,5	
16GS22	8	681	7	
16GS30	11	885	9	
16GS40	15	1156	11,7	
16GS55	20	1526	15,4	
16GS75	28	2070	20,8	



NOTE: for motor dimensions and weights see pages dedicated to 4OS and F4 motors in this catalogue.

