

GS SERIES

SUBMERSIBLE PUMPS FOR 4" WELLS

APPLICATIONS

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

SPECIFICATIONS

- **Delivery** up to **21 m³/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: 150 g/m³.**
- 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

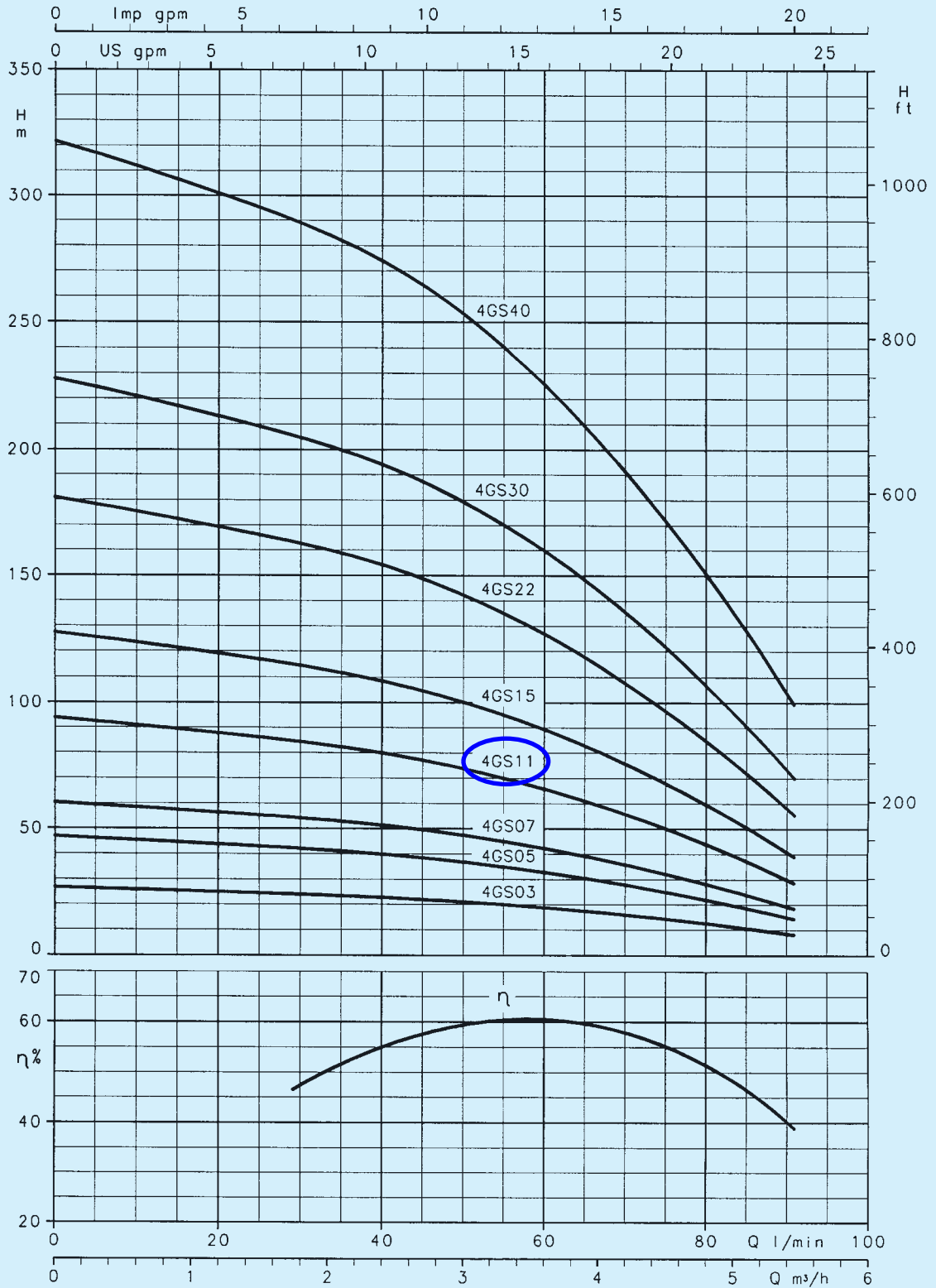
For 4OS motor characteristics, please see specific section in this catalogue.

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).

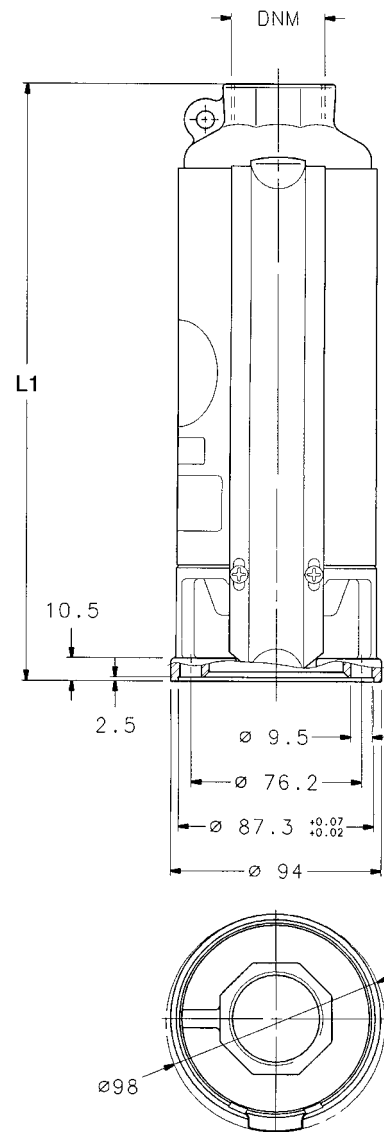
4GS SERIES OPERATING CHARACTERISTICS AT 2850 rpm 50 Hz



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

DIMENSIONS AND WEIGHTS, GS SERIES

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



NOTE: for motor dimensions and weights see pages dedicated to 40S and F4 motors in this catalogue.

