

4" e-GS Series Submersible Pumps

MARKET SECTORS

RESIDENTIAL, AGRICULTURE, INDUSTRY.

APPLICATIONS

- Water supply from drilled wells, cisterns.
- Sprinkler irrigation.
- Pressure boosting.
- Fire-fighting.

SPECIFICATIONS

PUMP

- **Delivery:**
up to 21 m³/h at 2900 rpm.
- **Head:**
up to 340 m at 2900 rpm.
- **Maximum pump overall diameter**
(cable cover included): 99 mm.
- **Maximum immersion depth:**
150 m (with 4OS motor).
300 m (with L4C motor).
- **Maximum permissible quantity of sand:** 150 g/m³.
- **1GSL - 2GS - 4GS - 6GS versions:**
Rp 1 1/4 delivery port.
- **8GS - 12GS - 16GS versions:**
Rp 2 delivery port.
- **Motor power:**
from 0,37 to 7,5 kW.

MOTOR

- **4OS single-phase version:**
from 0,37 to 2,2 kW 220-240 V,50 Hz.
- **4OS three-phase version:**
from 0,37 to 7,5 kW 220-240 V,50 Hz.
from 0,37 to 7,5 kW 380-415 V,50 Hz.
- **L4C single-phase version:**
from 0,37 to 4 kW 220-240 V,50 Hz.
- **L4C three-phase version:**
from 0,37 to 5,5 kW 220-240 V,50 Hz.
from 0,37 to 7,5 kW 380-415 V,50 Hz.
- **Maximum supply voltage variations:**
±10% (4OS)
±6% (L4C).
- **Maximum number of starts for hour evenly distributed:**
30 (4OS)
40 (L4C).
- **Horizontal operation:**
4OS up to 2,2 kW.
L4C up to 7,5 kW.
- **Maximum temperature of water in contact with motor:**
35°C

CONSTRUCTION CHARACTERISTICS PUMP

- Abrasion-resistant construction. The front wear ring, combined with the floating impellers, ensures optimum resistance to sand abrasion.
- 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 hexagonal pump shaft guarantees an effective impeller driving.
- Stainless steel non-return valve integrated in the head
- The e-GS series pumps can be coupled to either the 4OS or L4C motors.

MOTOR

For the motor features, please refer to the specific technical brochures.

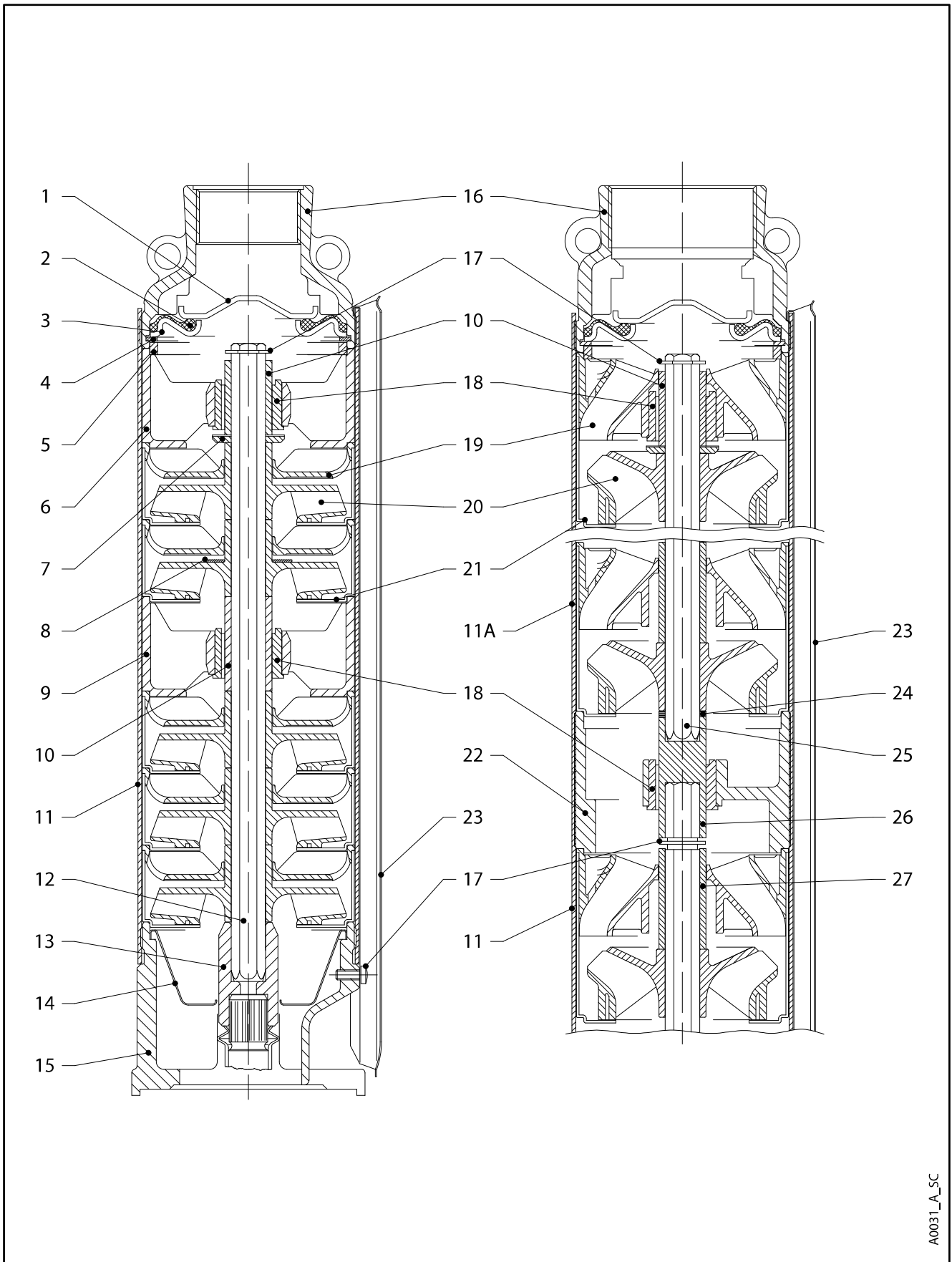
OPTIONAL FEATURES

- Different voltages and frequencies.
- Motor with built in capacitor (2W = Two Wires)
- Cooling sleeves



- **Abrasion resistant**
- **Floating impellers**
- **Compact**
- **Ecodesign compliant MEI ≥ 0,4**
- **Approvals:**
- ACS
- D.M.174/2004

**e-GS SERIES
PUMP SECTION**



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e-GS SERIES
TABLE OF MATERIALS

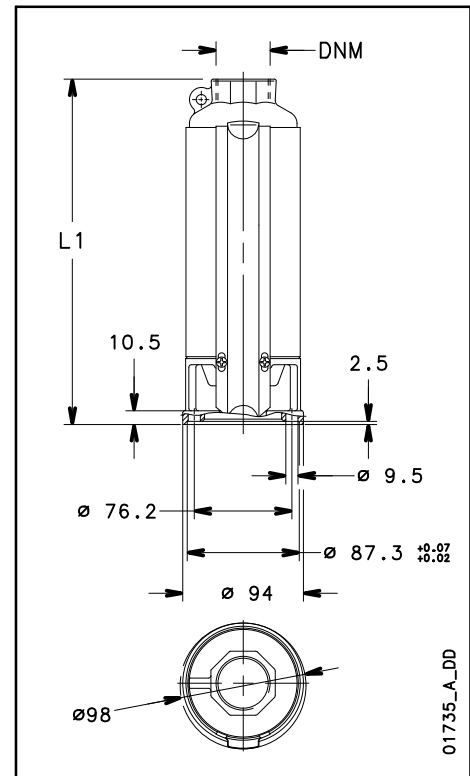
REF. N°	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Valve cap	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
2	Valve gasket	NBR		
3	Valve flange	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
4	Valve locking ring	Stainless steel	DIN 17006 - X5CrNi18-7 (1.4319)	AISI 302
5	Adapter ring	Technopolymer PPO		
6	Upper bush bracket	Technopolymer PPO		
7	Thrust bearing	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
8	Washer	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
9	Intermediate bush bracket	Technopolymer PPO		
10	Shaft sleeve	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
11	Sleeve	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
11A	Upper sleeve	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
12	Pump shaft	Stainless steel	EN 10088-3-X5CrNi18-10 (1.4301)	AISI 304
13	Coupling	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
14	Strainer	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
15	Motor adapter	Stainless steel	EN 10213-4-GX5CrNi19-10 (1.4308)	CF-8 ASTM A743
16	Discharge head	Stainless steel	EN 10213-4-GX5CrNi19-10 (1.4308)	CF-8 ASTM A743
17	Screws, nuts, washers	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
18	Bush	Technopolymer PU		
19	Diffuser	Technopolymer PPO		
20	Impeller	Technopolymer PPO		
21	Bowl	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
22	Intermediate bush bracket	Stainless steel	EN 10213-4-GX5CrNi19-10 (1.4308)	CF-8 ASTM A743
23	Cable guard	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
24	Shim	Stainless steel	EN 10088-2-X5CrNi18-10 (1.4301)	AISI 304
25	Upper pump shaft	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
26	Intermediate coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
27	Spacer	Stainless steel	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304

Gs4-2p50-en_e_tm

2GS SERIES OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N. OF STAGES	MOTOR POWER		MEI ⁽²⁾ ≥	Q = DELIVERY					
		kW	HP		l/min	m ³ /h				
					0	20	25	30	40	50
					H = TOTAL HEAD METRES COLUMN OF WATER					
2GS02 ⁽¹⁾	5	0,37	0,5	0,4	33	30	28	26	20	13
2GS03	7	0,37	0,5	0,4	47	42	40	36	29	19
2GS05	10	0,55	0,75	0,4	67	60	56	52	41	27
2GS07	14	0,75	1	0,4	93	83	79	73	57	37
2GS11	20	1,1	1,5	0,4	133	119	113	104	82	53
2GS15	28	1,5	2	0,4	187	167	158	146	115	74
2GS22	40	2,2	3	0,4	267	238	226	208	164	106
2GS30	52	3	4	0,4	347	309	294	271	213	138

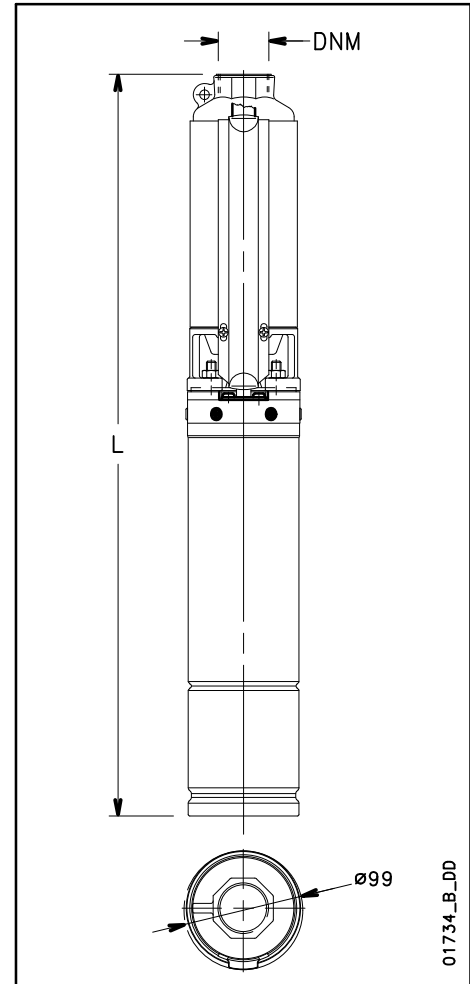
Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A) 2gs-2p50-en_d_th
 (1) Maximum pump absorbed power: 0,25 kW - 0,33 HP.
 (2) Index of efficiency MEI.



2GS..4OS SERIES DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE *	N. OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
			L1	L		
2GS02M-4OS	5	Rp 1 1/4	245	598	2,6	10,2
2GS03M-4OS	7	Rp 1 1/4	280	633	2,9	10,5
2GS05M-4OS	10	Rp 1 1/4	332	685	3,5	11,7
2GS07M-4OS	14	Rp 1 1/4	402	780	4,2	13,5
2GS11M-4OS	20	Rp 1 1/4	507	920	5,3	16,5
2GS15M-4OS	28	Rp 1 1/4	680	1128	7,1	19,9
2GS22M-4OS	40	Rp 1 1/4	914	1412	10,1	25,2
2GS03T-4OS	7	Rp 1 1/4	280	612	2,9	10
2GS05T-4OS	10	Rp 1 1/4	332	685	3,5	11,1
2GS07T-4OS	14	Rp 1 1/4	402	755	4,2	12,4
2GS11T-4OS	20	Rp 1 1/4	507	885	5,3	14,6
2GS15T-4OS	28	Rp 1 1/4	680	1093	7,1	18,5
2GS22T-4OS	40	Rp 1 1/4	914	1362	10,1	23
2GS30T-4OS	52	Rp 1 1/4	1120	1568	12,2	26,1

* Pump and motor are supplied uncoupled 2gs-4os-2p50-en_a_td
 - the motor is single-phase ≥ 2,2 kW or three-phase ≥ 3 kW
 - or the total length is > 1500 mm

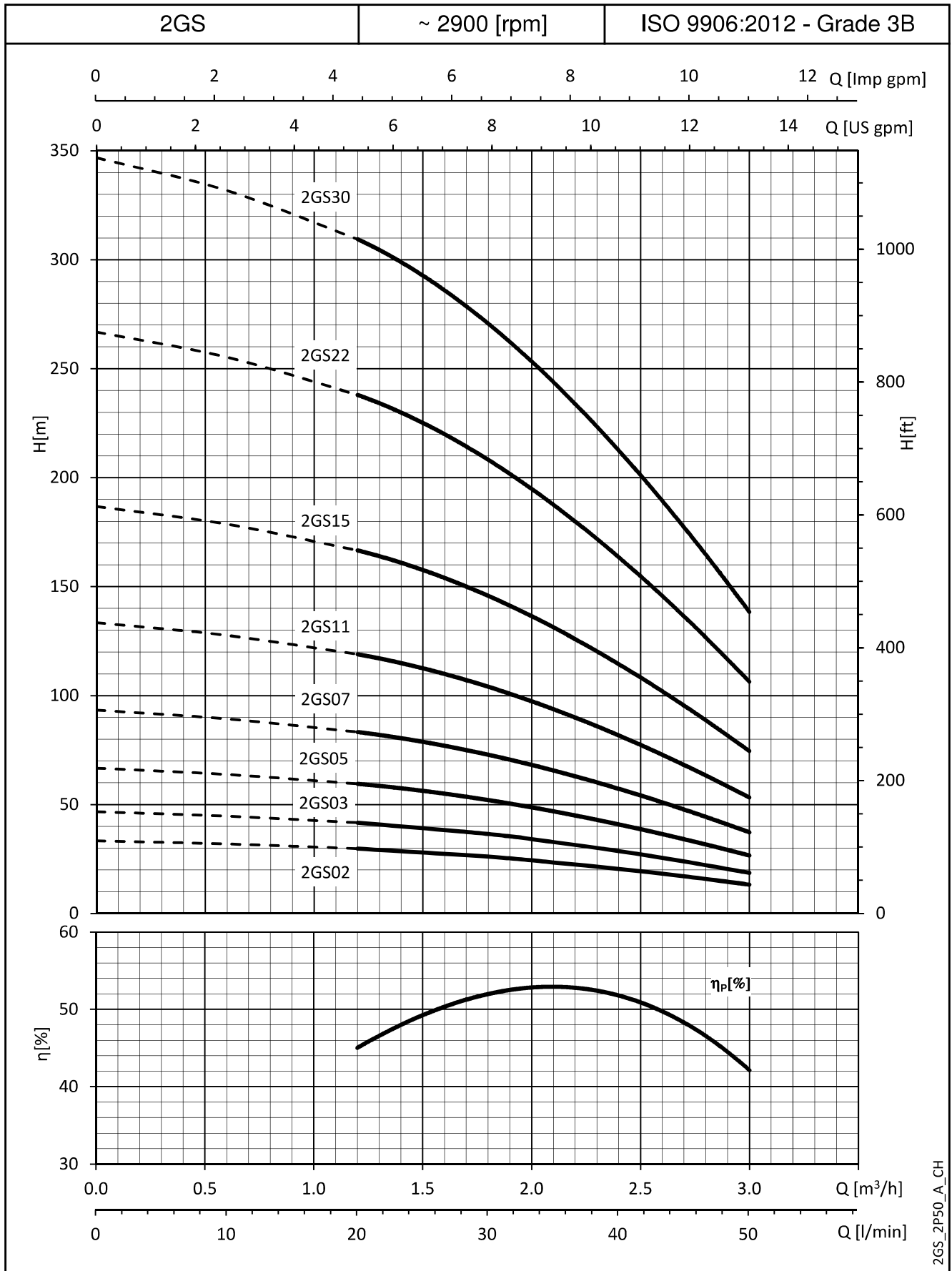


2GS..L4C SERIES DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE *	N. OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
			L1	L		
2GS02M-L4C	5	Rp 1 1/4	245	479	2,6	9,8
2GS03M-L4C	7	Rp 1 1/4	280	514	2,9	10,1
2GS05M-L4C	10	Rp 1 1/4	332	596	3,5	11,3
2GS07M-L4C	14	Rp 1 1/4	402	686	4,2	12,6
2GS11M-L4C	20	Rp 1 1/4	507	836	5,3	16,2
2GS15M-L4C	28	Rp 1 1/4	680	1071	7,1	19,8
2GS22M-L4C	40	Rp 1 1/4	914	1325	10,1	24,3
2GS03T-L4C	7	Rp 1 1/4	280	494	2,9	9,9
2GS05T-L4C	10	Rp 1 1/4	332	566	3,5	10,7
2GS07T-L4C	14	Rp 1 1/4	402	666	4,2	12
2GS11T-L4C	20	Rp 1 1/4	507	791	5,3	13,7
2GS15T-L4C	28	Rp 1 1/4	680	1026	7,1	19,1
2GS22T-L4C	40	Rp 1 1/4	914	1305	10,1	22,9
2GS30T-L4C	52	Rp 1 1/4	1120	1662	12,2	32,8

* Pump and motor are supplied uncoupled in two separated packages if: 2gs-l4c-2p50-en_b_td
 - the motor is single-phase ≥ 2,2 kW or three-phase ≥ 3 kW
 - or the total length is > 1500 mm

2GS SERIES OPERATING CHARACTERISTICS AT 50 Hz



2GS_2P50_A_CH

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