

4" e-GS Series Submersible Pumps



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

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:**
 $\pm 10\%$ (4OS)
 $\pm 6\%$ (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.

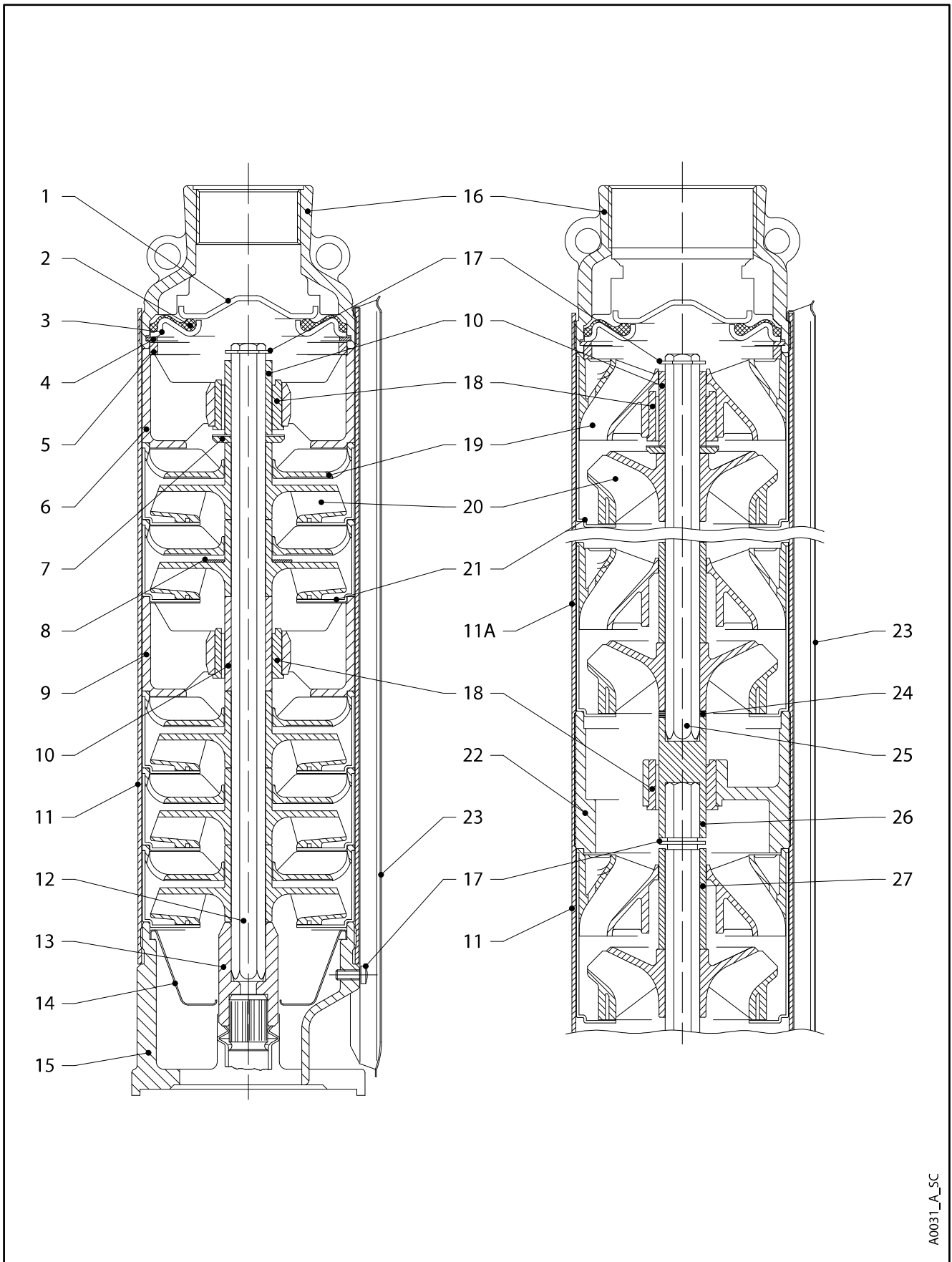
MOTOR

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

**e-GS SERIES
PUMP SECTION**



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

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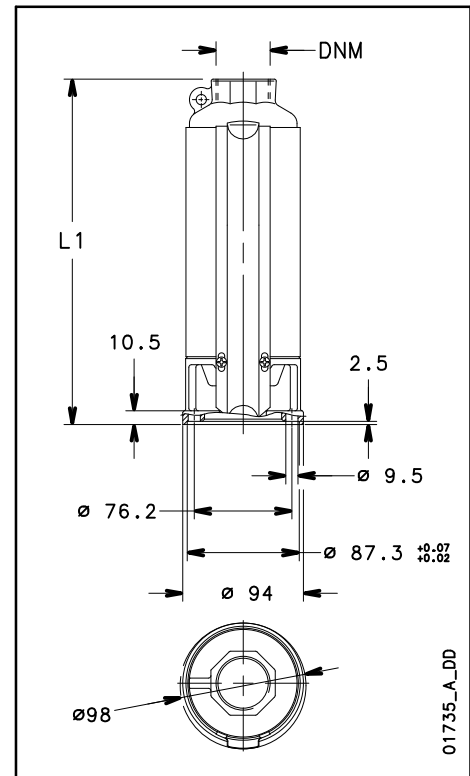
4GS SERIES OPERATING CHARACTERISTICS AT 50 Hz

PUMP TYPE	N. OF STAGES	MOTOR POWER		MEI ⁽¹⁾ ≥	Q = DELIVERY						
					l/min	0	30	40	60	80	90
					m ³ /h	0	1,8	2,4	3,6	4,8	5,4
					H = TOTAL HEAD METRES COLUMN OF WATER						
4GS03	4	0,37	0,5	0,4	27	24	23	19	13	9	
4GS05	7	0,55	0,75	0,4	47	42	40	33	22	15	
4GS07	9	0,75	1	0,4	60	54	51	42	28	19	
4GS11	14	1,1	1,5	0,4	94	84	80	66	44	30	
4GS15	19	1,5	2	0,4	127	114	108	89	60	40	
4GS22	27	2,2	3	0,4	181	162	154	127	85	57	
4GS30	35	3	4	0,4	228	204	194	160	107	72	
4GS40	48	4	5,5	0,4	321	288	274	226	151	102	

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

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(1) Index of efficiency MEI.



4GS..4OS SERIES DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE *	N. OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
			L1	L		
4GS03M-4OS	4	Rp 1 1/4	245	598	2,5	10,1
4GS05M-4OS	7	Rp 1 1/4	309	662	3,1	11,3
4GS07M-4OS	9	Rp 1 1/4	352	730	3,5	12,8
4GS11M-4OS	14	Rp 1 1/4	460	873	4,6	15,8
4GS15M-4OS	19	Rp 1 1/4	568	1016	5,7	18,5
4GS22M-4OS	27	Rp 1 1/4	770	1268	7,6	22,7
4GS03T-4OS	4	Rp 1 1/4	245	577	2,5	9,6
4GS05T-4OS	7	Rp 1 1/4	309	662	3,1	10,7
4GS07T-4OS	9	Rp 1 1/4	352	705	3,5	11,7
4GS11T-4OS	14	Rp 1 1/4	460	838	4,6	13,9
4GS15T-4OS	19	Rp 1 1/4	568	981	5,7	17,1
4GS22T-4OS	27	Rp 1 1/4	770	1218	7,6	20,5
4GS30T-4OS	35	Rp 1 1/4	967	1415	9,6	23,5
4GS40T-4OS	48	Rp 1 1/4	1248	1816	12,8	30,6

* Pump and motor are supplied uncoupled in two separated packages if:

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- the motor is single-phase ≥ 2,2 kW or three-phase ≥ 3 kW
- or the total length is > 1500 mm

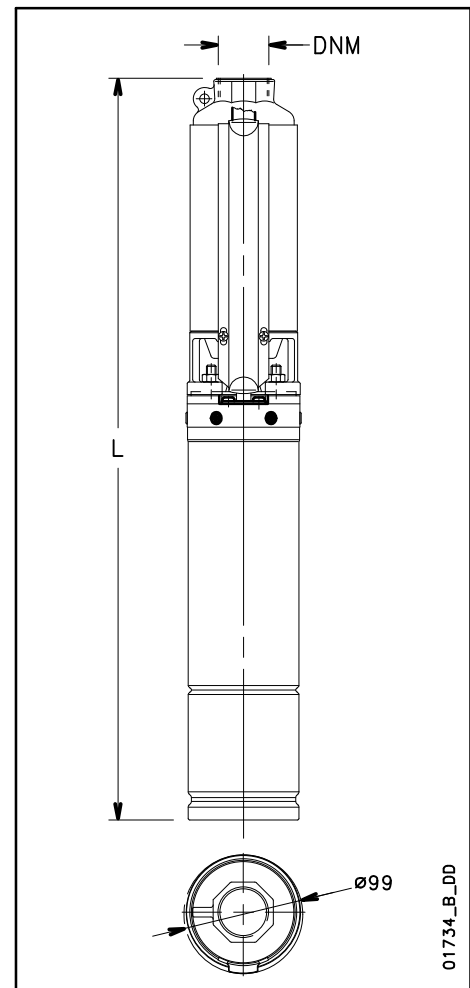
4GS..L4C SERIES DIMENSIONS AND WEIGHTS

ELECTRIC PUMP TYPE*	N. OF STAGES	DNM	DIMENSIONS (mm)		PUMP WEIGHT kg	ELECTRIC PUMP WEIGHT kg
			L1	L		
4GS03M-L4C	4	Rp 1 1/4	245	479	2,5	9,7
4GS05M-L4C	7	Rp 1 1/4	309	573	3,1	10,9
4GS07M-L4C	9	Rp 1 1/4	352	636	3,5	11,9
4GS11M-L4C	14	Rp 1 1/4	460	789	4,6	15,5
4GS15M-L4C	19	Rp 1 1/4	568	959	5,7	18,4
4GS22M-L4C	27	Rp 1 1/4	770	1181	7,6	21,8
4GS03T-L4C	4	Rp 1 1/4	245	459	2,5	9,5
4GS05T-L4C	7	Rp 1 1/4	309	543	3,1	10,3
4GS07T-L4C	9	Rp 1 1/4	352	616	3,5	11,3
4GS11T-L4C	14	Rp 1 1/4	460	744	4,6	13
4GS15T-L4C	19	Rp 1 1/4	568	914	5,7	17,7
4GS22T-L4C	27	Rp 1 1/4	770	1161	7,6	20,4
4GS30T-L4C	35	Rp 1 1/4	967	1509	9,6	30,2
4GS40T-L4C	48	Rp 1 1/4	1248	1860	12,8	36,5

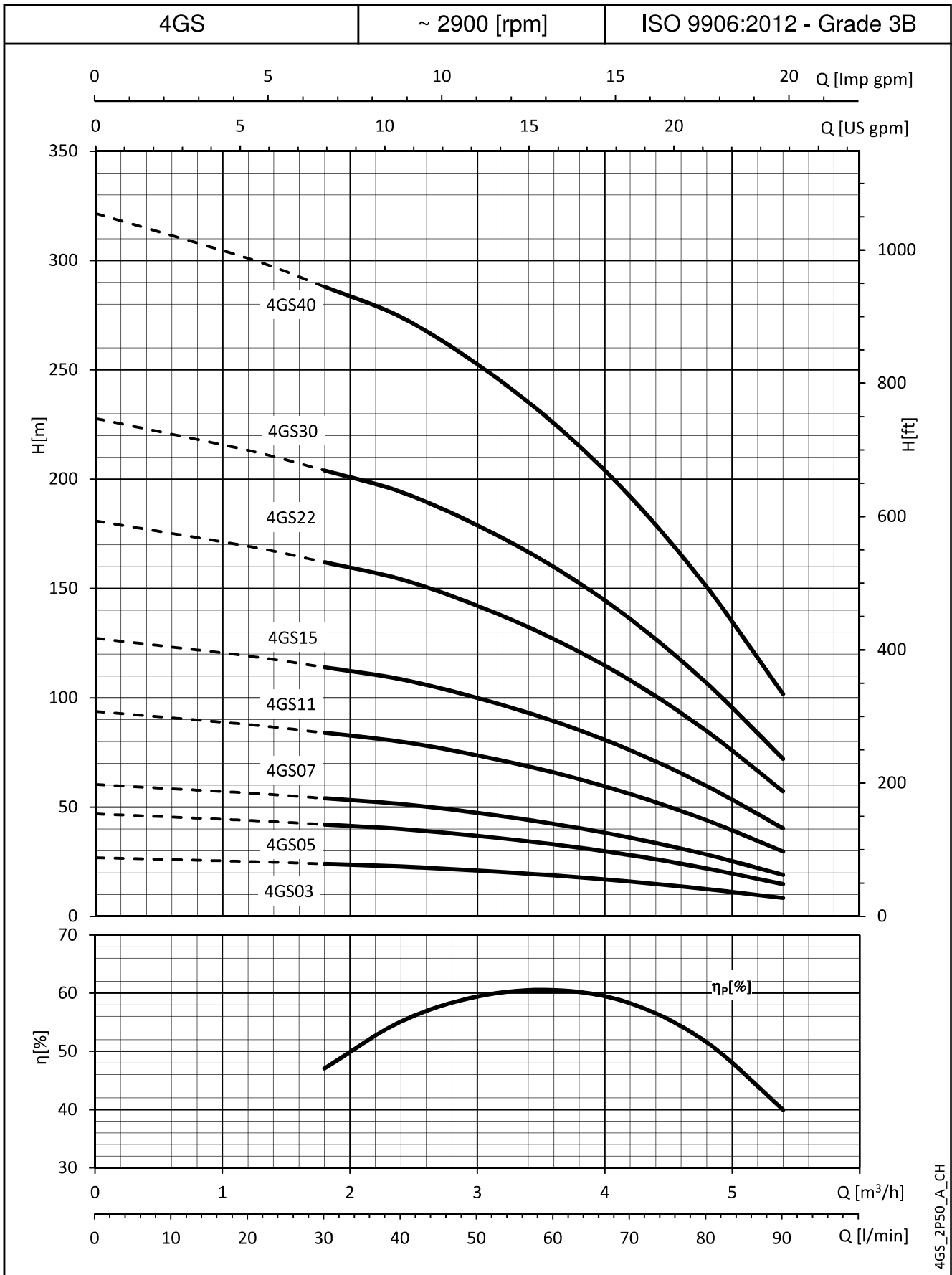
* Pump and motor are supplied uncoupled in two separated packages if:

4gs-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



4GS SERIES OPERATING CHARACTERISTICS AT 50 Hz



4GS_2P50_A_CH

These performances are valid for liquids with density ρ = 1.0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.