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Let's Solve Water

Lowara Product Guide

LOWARA
a xylem brand

BOREHOLE PUMPS & MOTORS

e-GS Series

The Lowara e-GS pump for 4" wells has an enhanced hydraulic efficiency to set the basis for lower operational costs and premium efficiency.

The abrasion resistant construction, combined with floating impellers ensures optimum resistance to wear making this one of the best pumps on the market for sand handling capabilities.
The stainless steel structure of the pump ensures high resistance to corrosion with a built in non-return valve and cable guard attachment.

The upper and lower supports are made of precision-cast stainless steel and the hexagonal pump shaft guarantees an effective impeller drive.

APPLICATIONS

- Water supply
- Irrigation systems
- Pressure boosting
- Stock watering

SPECIFICATIONS

- Delivery up to 22 m³/h
- Head up to 310 m
- Power supply both single and three-phase 50 and 60 Hz
- Power from 0.25 kW up to 7.50 kW
- Maximum pump overall diameter (including cable cover) 99 mm
- Maximum permissible quantity of sand: 150 g/m3.
- 1GSL - 2GS - 4GS - 6GS versions: Rp 1 ¼" delivery port.
- 8GS - 12GS - 16GS versions: Rp 2" delivery port.
- Temperature of pumped liquid: up to 35°C
- Maximum immersion depth: 300 m

FEATURES

- Abrasion resistant construction. The front wear plate, combined with the floating impeller, ensures optimum resistance to abrasion
- A non-return valve is fitted in the discharge to ensure no back flow or water hammer to the pump, thus safeguarding impellers, diffusers and motor
- The upper and lower supports are made of precision cast stainless steel, ensuring resistance to corrosion, durability and sturdy coupling to the motor

e-GS SERIES MOTOR SELECTION CHART

Series / Model	Motor Size kW										
	.25	.37	.55	.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5
1GSL	02	03	05	07	11	15					
2GS	02	03	05	07	11	15	22	30			
4GS		03	05	07	11	15	22	30	40		
6GS			05	07	11	15	22	30	40R, 40	55R, 55	
8GS				07	11	15	22	30	40	55R, 55	75R, 75
12GS					11	15	22	30	40	55R, 55	75
16GS						15	22	30	40	55R, 55	

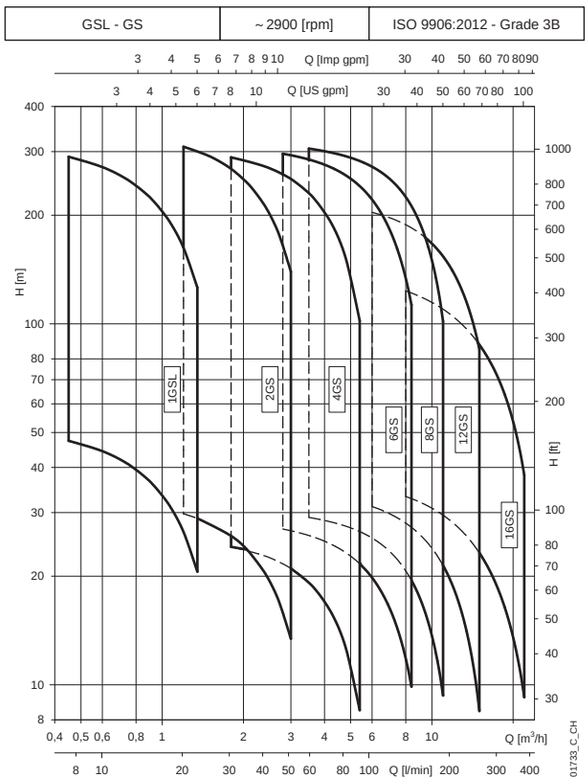
MATERIAL TABLE

COMPONENT	MATERIAL
Sleeve, cable cover and grid	(AISI 304) STAINLESS STEEL
Shaft, diffuser casing joint	(AISI 304) STAINLESS STEEL
Upper bracket and lower bracket	(AISI 303) STAINLESS STEEL PRECISION CASTING
Impeller and diffuser	TECHNOPOLYMER
Upper bearing	POLYURETHANE
Valve packing	NITRILE RUBBER

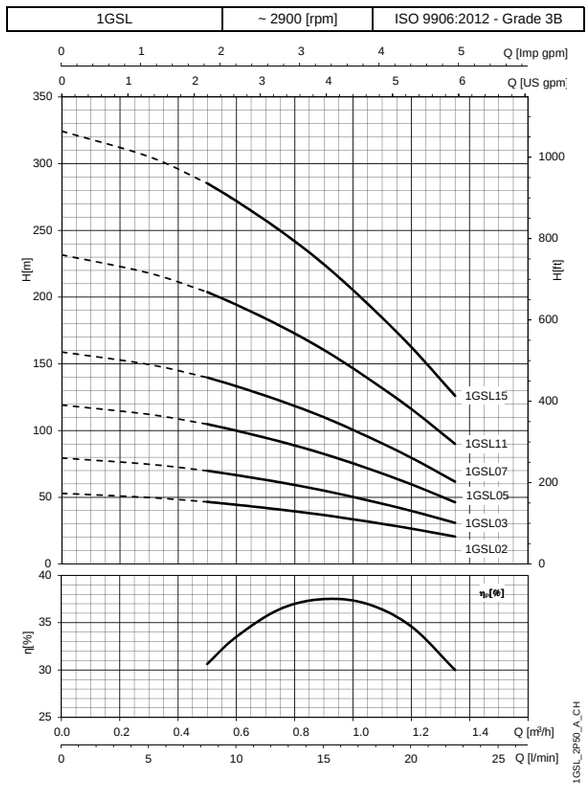
BOREHOLE PUMPS & MOTORS

PERFORMANCE CURVES AT 2900 RPM

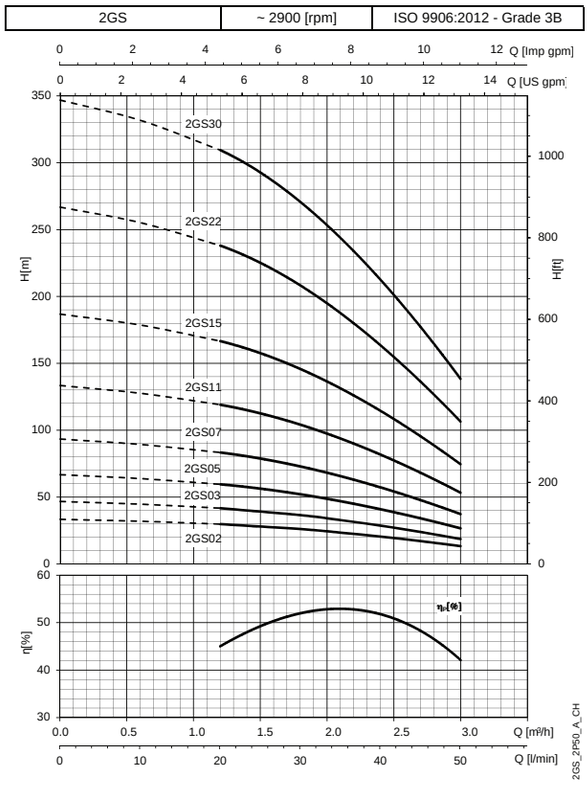
HYDRAULIC PERFORMANCE RANGE AT 50 Hz



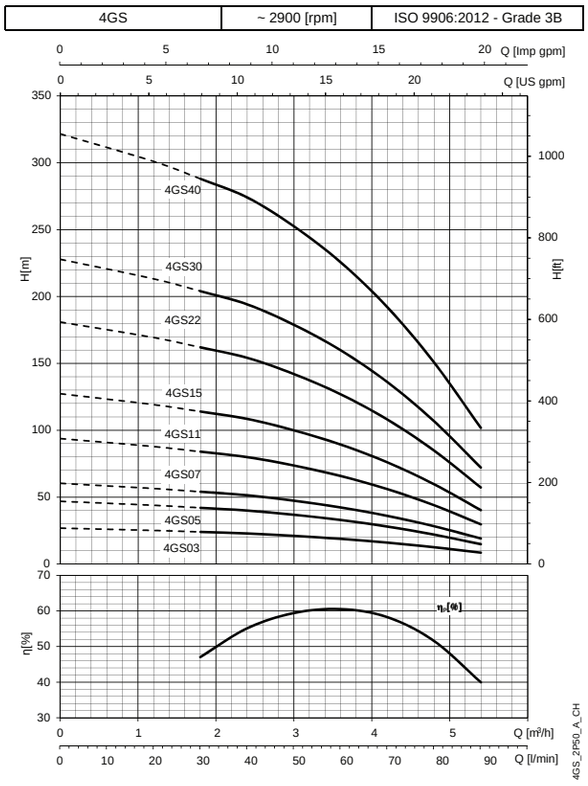
1GSL PERFORMANCE RANGE AT 50 Hz



2GS PERFORMANCE RANGE AT 50 Hz



4GS PERFORMANCE RANGE AT 50 Hz

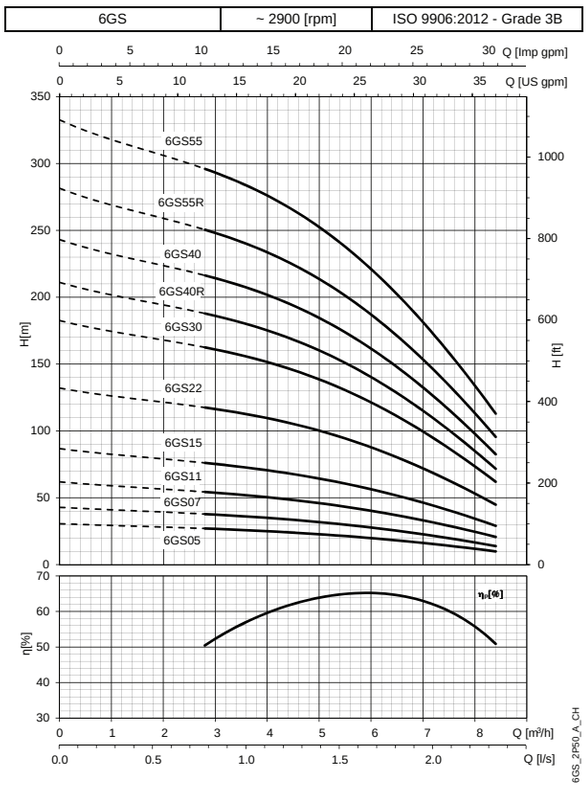


These performances are valid for liquids with density ρ = 1.0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

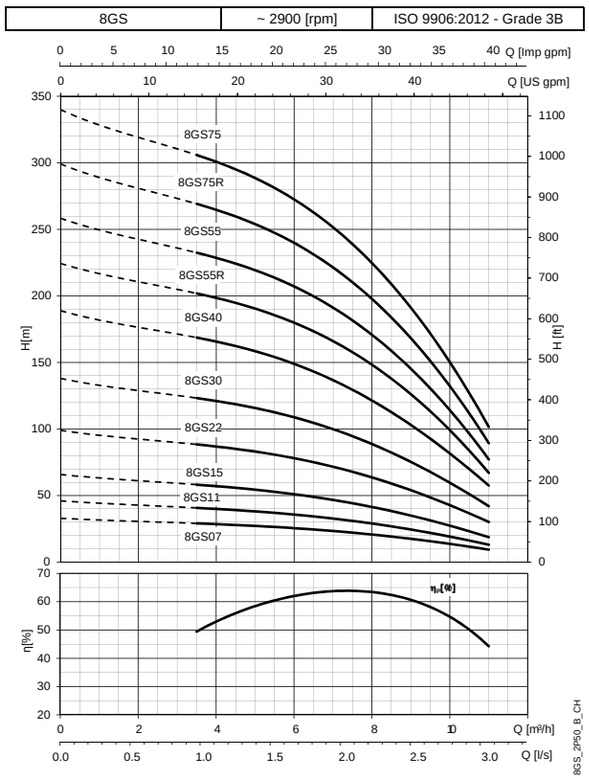
BOREHOLE PUMPS & MOTORS

PERFORMANCE CURVES AT 2900 RPM

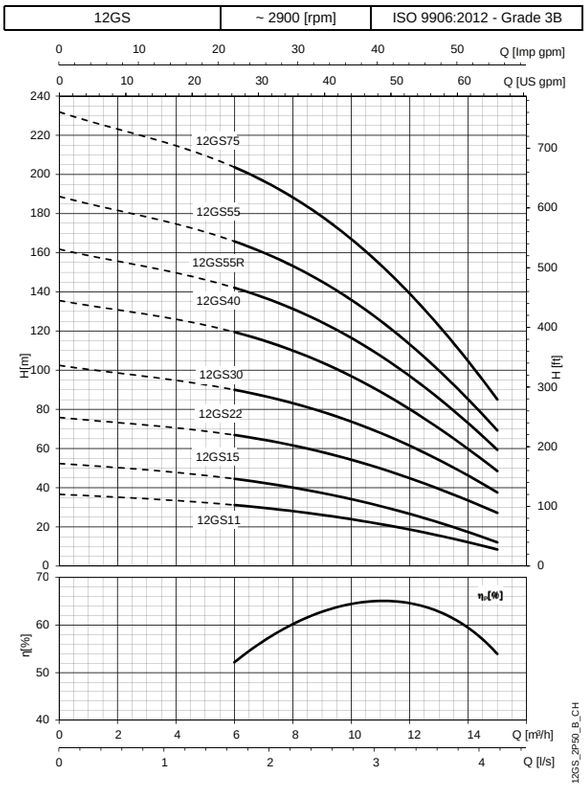
6GS PERFORMANCE RANGE AT 50 Hz



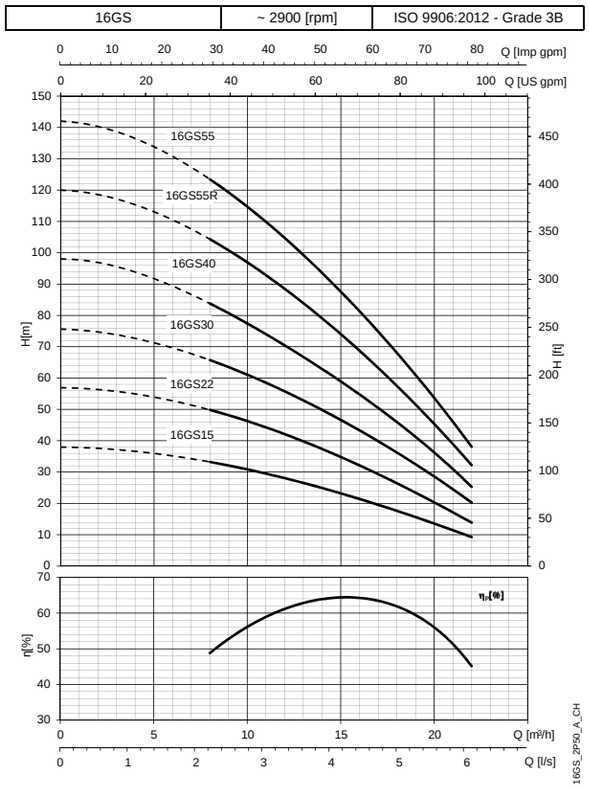
8GS PERFORMANCE RANGE AT 50 Hz



12GS PERFORMANCE RANGE AT 50 Hz



16GS PERFORMANCE RANGE AT 50 Hz



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

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