Dr. Pump Self Priming Centrifigual Pumps

Single-Stage Semi-Open Impeller

SSP 80 - 200

Technical Data

Flow:	max. 480 m³/h
Head:	max. 480m
Max solid:	76mm
Working pressure:	up to 6 bar
Speed:	max. 3600 rpm
Material:	Cast Iron, Ductile Iron and Bronze
Temperature:	max. 80 ºC
Rotation:	Clockwise viewing from drive end

Applications

Pumps of the Dr Pump SSP range meet the specific requirements of many applications including:

- Industrial
- Municipal Water Supply
- Marine and Ship Building
- Waste Water
- Irrigation and Agriculture
- Flood Control

A range of materials is available to meet the specific needs of customers.

Description

Dr Pump SSP pumps are used for pumping mixtures containing abrasive solids up to a viscosity of 50mm2/s.

They are applied in many fields, such as industry, civil engineering, marine and waste treatment. As self-priming sewage pumps, they can deal with different neutral, alkali liquids clean or dirty: liquids mixed with sand, mud or other solids in suspension; low viscosity petroleum products; lime milk, caustic soda and wastewater resulted from washing, cooling, circulation, purification or emergency.

Pump performance can be adjusted into different levels by speed (Rpm) to meet different requirements.

Construction

Casing
The Dr Pump SSP Pump has maintenance holes outside the casing which enable convenient maintenance and cleaning; meanwhile, the other one advanced device - wear plate would greatly prolong the whole service life.

Material
Casing- Cast Iron standard, Ductile Iron, Bronze optional.

Impeller- Ductile Iron standard, Bronze, Stainless 304, Stainless 316 optional.

Shaft- Stainless and Carbon Steel.

Sealing
Shaft Seal- Mechanical Seal (Sic/Viton)

SSPA

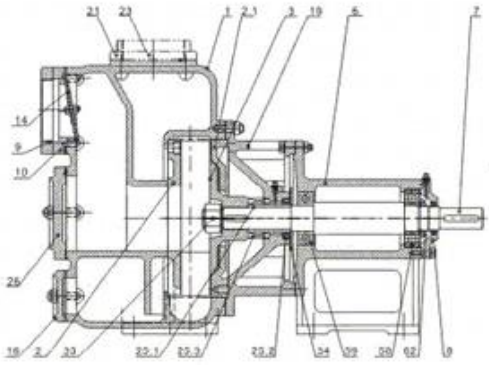
Material Design

Product Identification Code			
Position	**Characteristic**	**Code**	**Explanation**
1-3	**Type**	**SSP**	Horizontal single stage self priming sewage centrifugal pump with semi-open impeller centrifugal pump
4	**Construction**	**A**	
5-7	**Suction / Discharge Size**	**100**	Suction and Discharge size in mm
8-10	**Impeller Size**	**160**	Impeller nominal size in mm
11-12	**Casing Material**	**0A**	Cast Iron GG25
		1A	Ductile Iron GGG
		0C	Bronze
13-14	**Impeller / Wear Plate Material**	**1A**	Ductile Iron Impeller Cast Iron Wear Plate
		0C	Bronze Impeller and Wear Plate
		4A	Stainless Steel 304 Impeller and Wear Plate
		4B	Stainless Steel 316 Impeller and Wear Plate
15-16	**Shaft Material**	**0B**	Carbon Steel C45
		40	ASTM420
		4A	Stainless Steel 304
		4B	Stainless Steel 316
17 - 19	**Sealing**	**ASF**	Mechanical Seal Sic/Viton

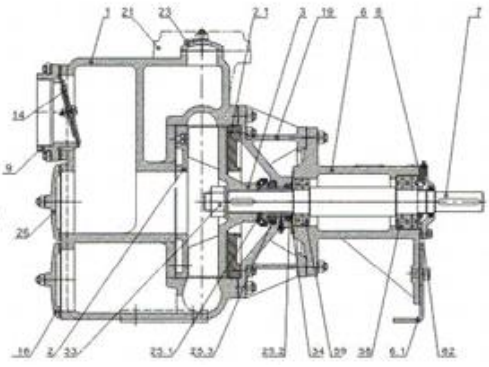
Sectional Drawing

Item	Part
1	Casing
2	Front Wear Plate
2.1	Back Wear Plate
3	Impeller
6	Bear Housing
6.1	Support Foot
7	Shaft
8	Bearing Cover
9	Suction Flange
10	Check Valve Seat
14	Check Valve
16	Maintenance Cover
19	Casing Cover
21	Discharge Flange
23	Maintenance Cover
25.1	Shaft Sleeve
25.2	Oil Seal
25.3	Mechanical Seal
26	Maintenance Cover
33	Impeller Nut
34	Slinger
58	Bearing
59	Bearing
62	Lock Nut

1. (40-110, 50-120,80-215, 100-160)



2. (80-140, 100-250, 150-250, 150-400, 200-300)



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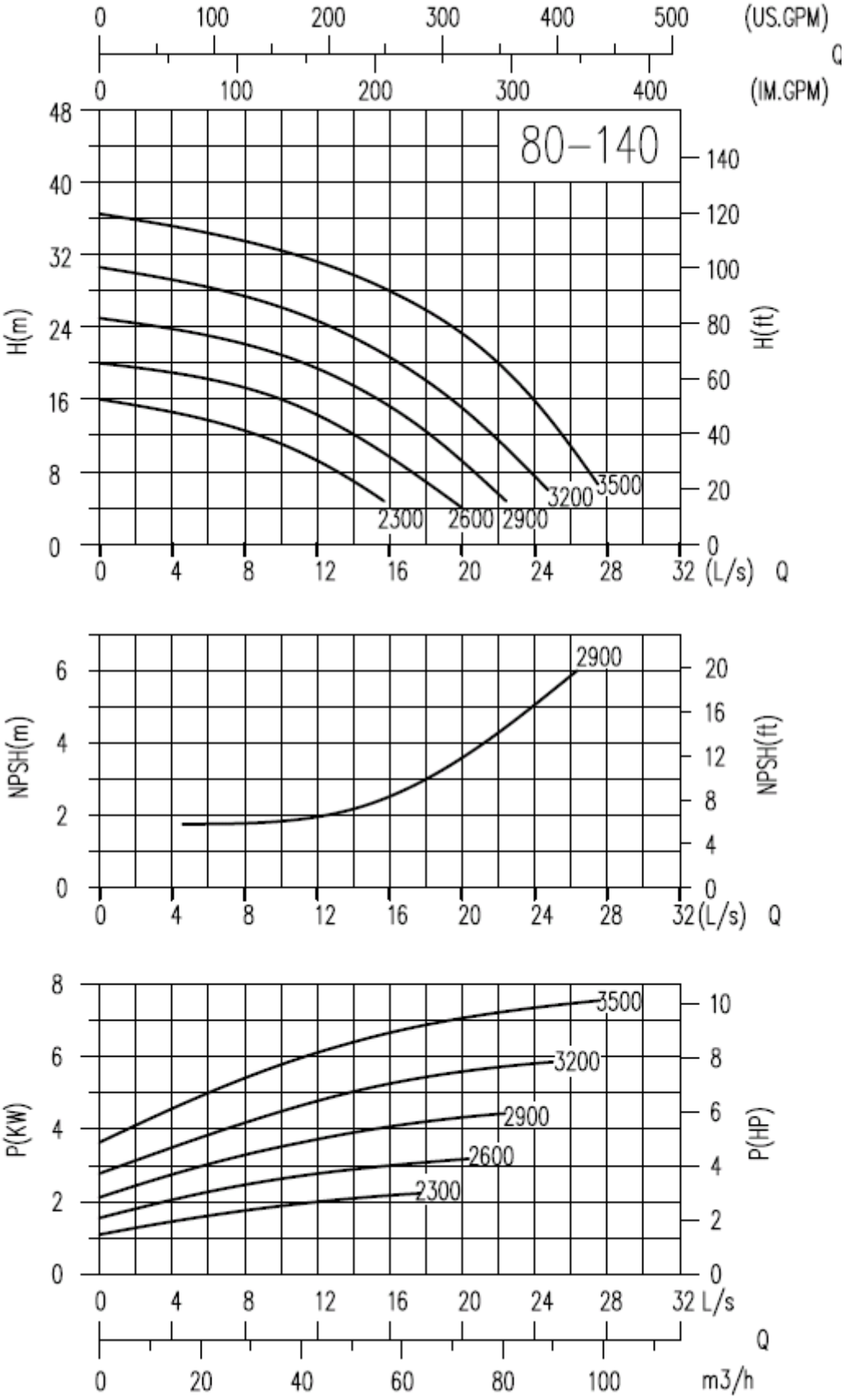
Performance Characteristics

SSP 80 - 140



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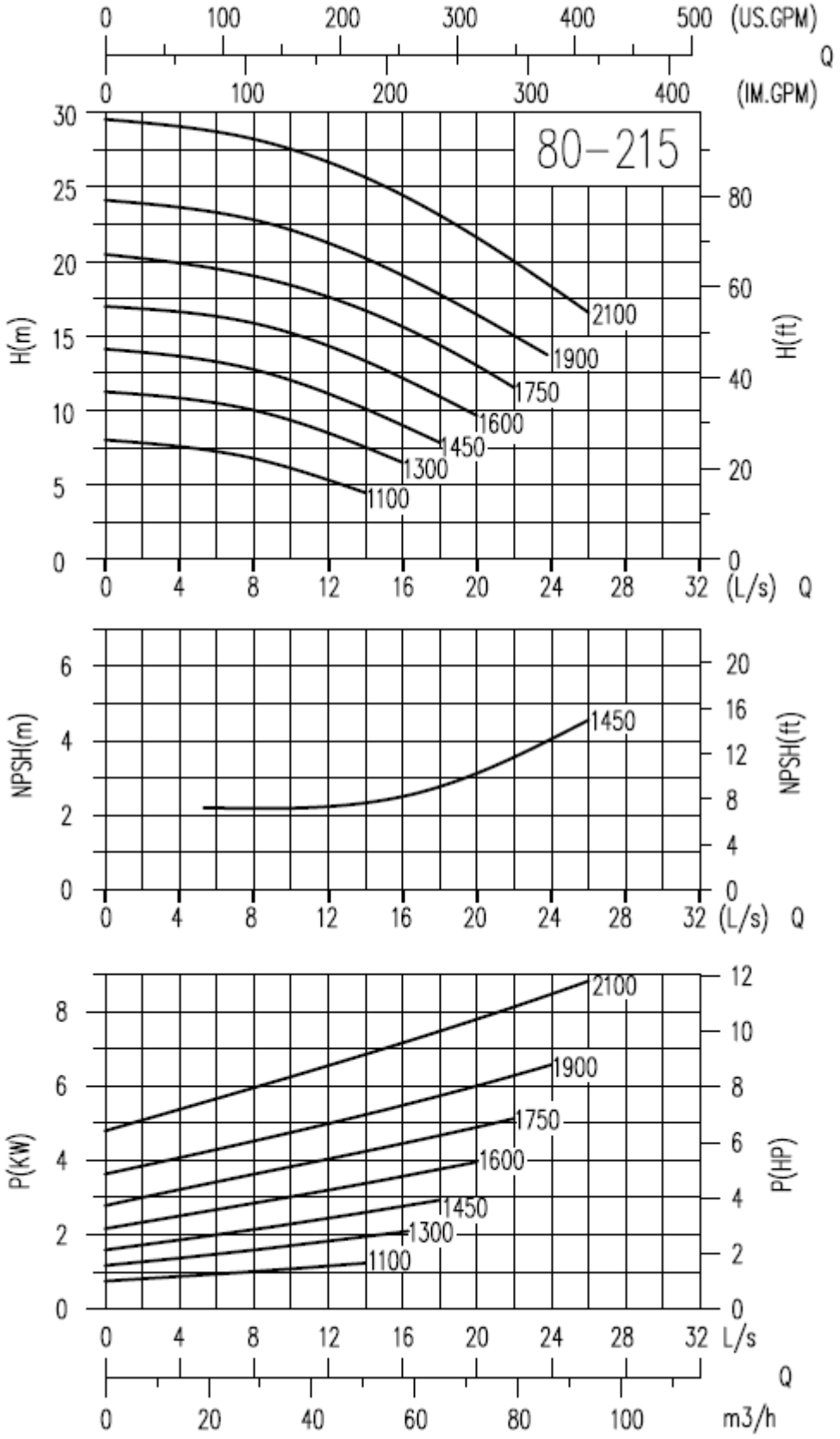
SSP 80 -215



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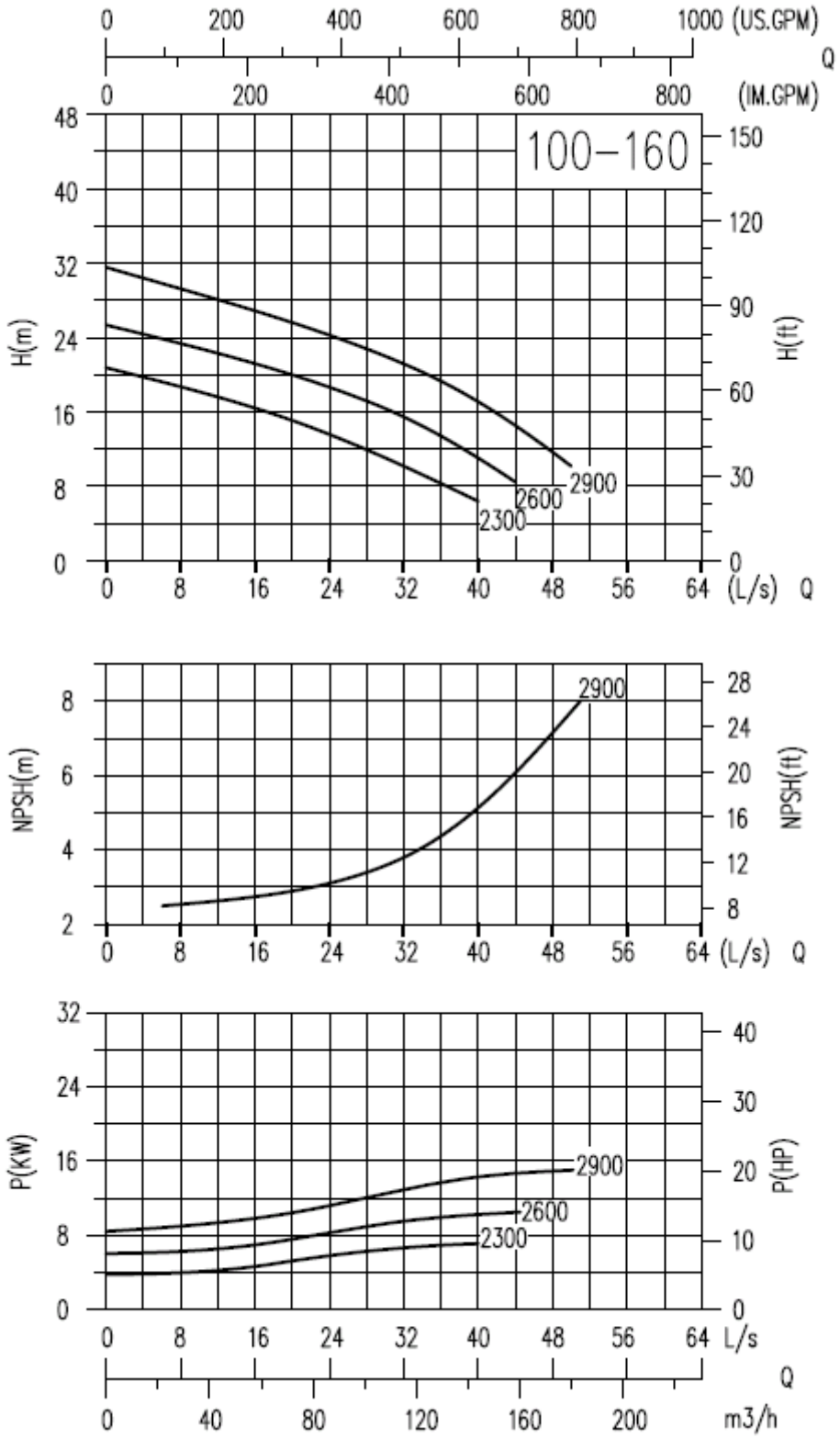
SSP 100 - 160



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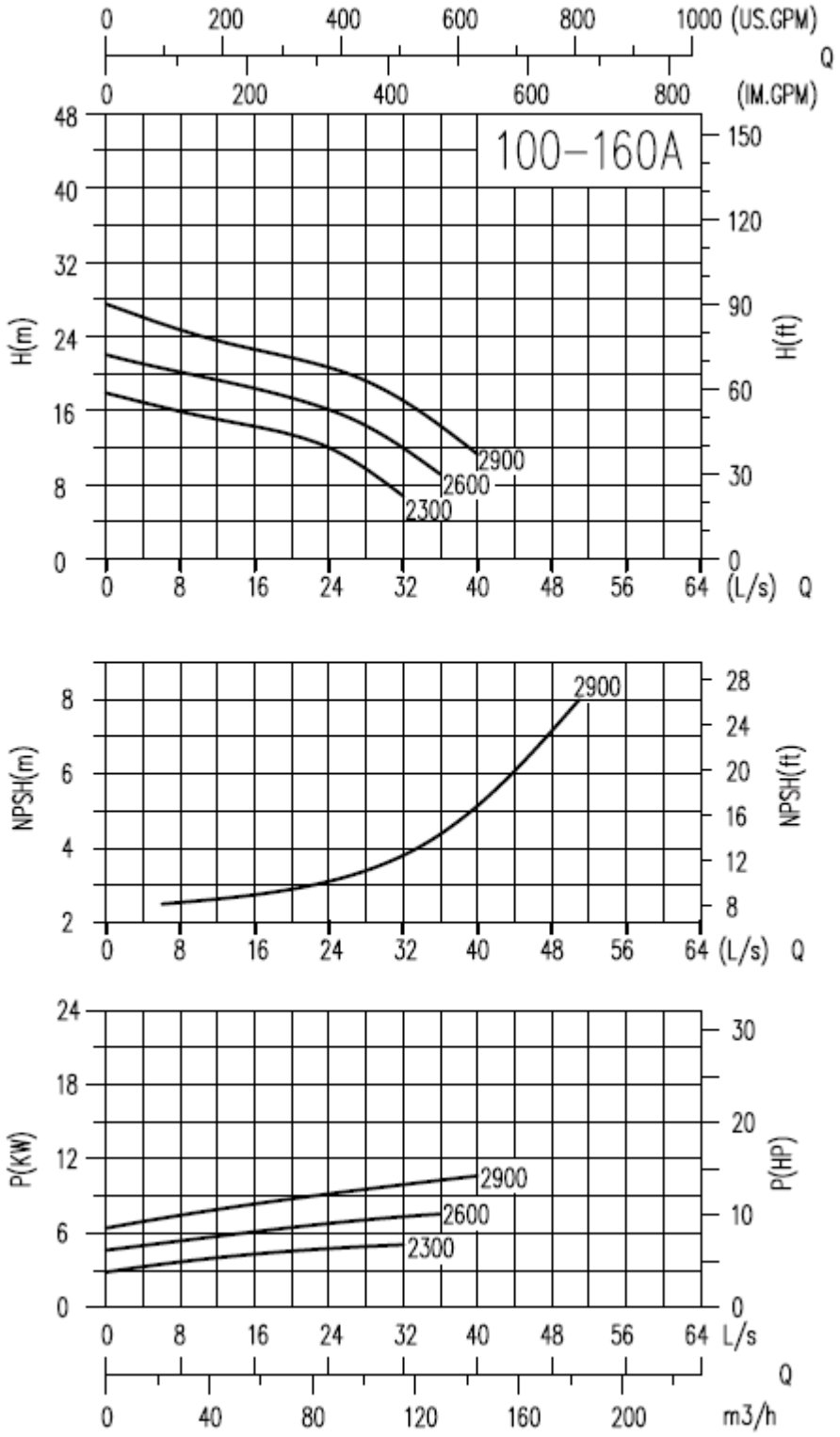
SSP 100 – 160A



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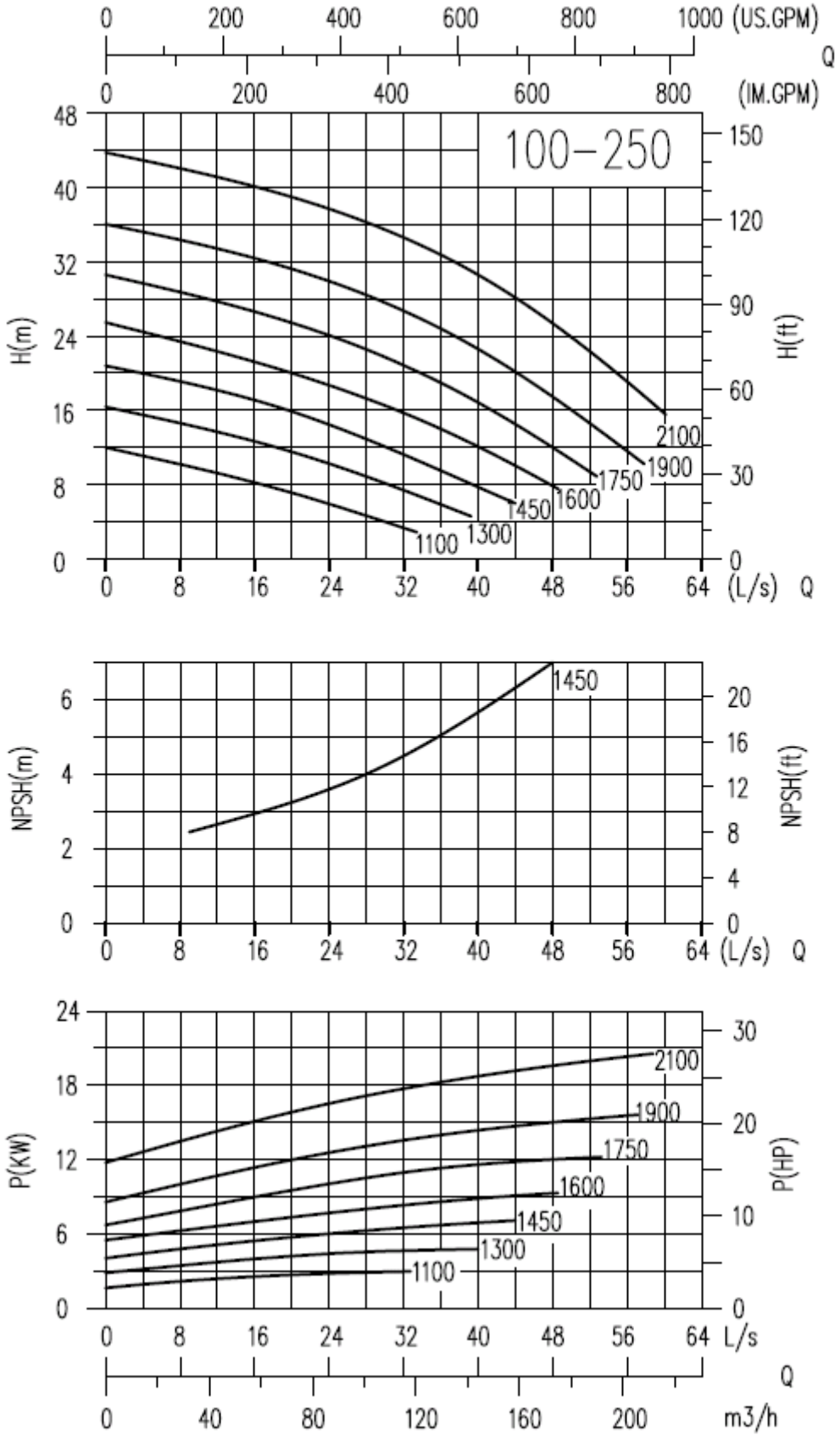
SSP 100 - 250



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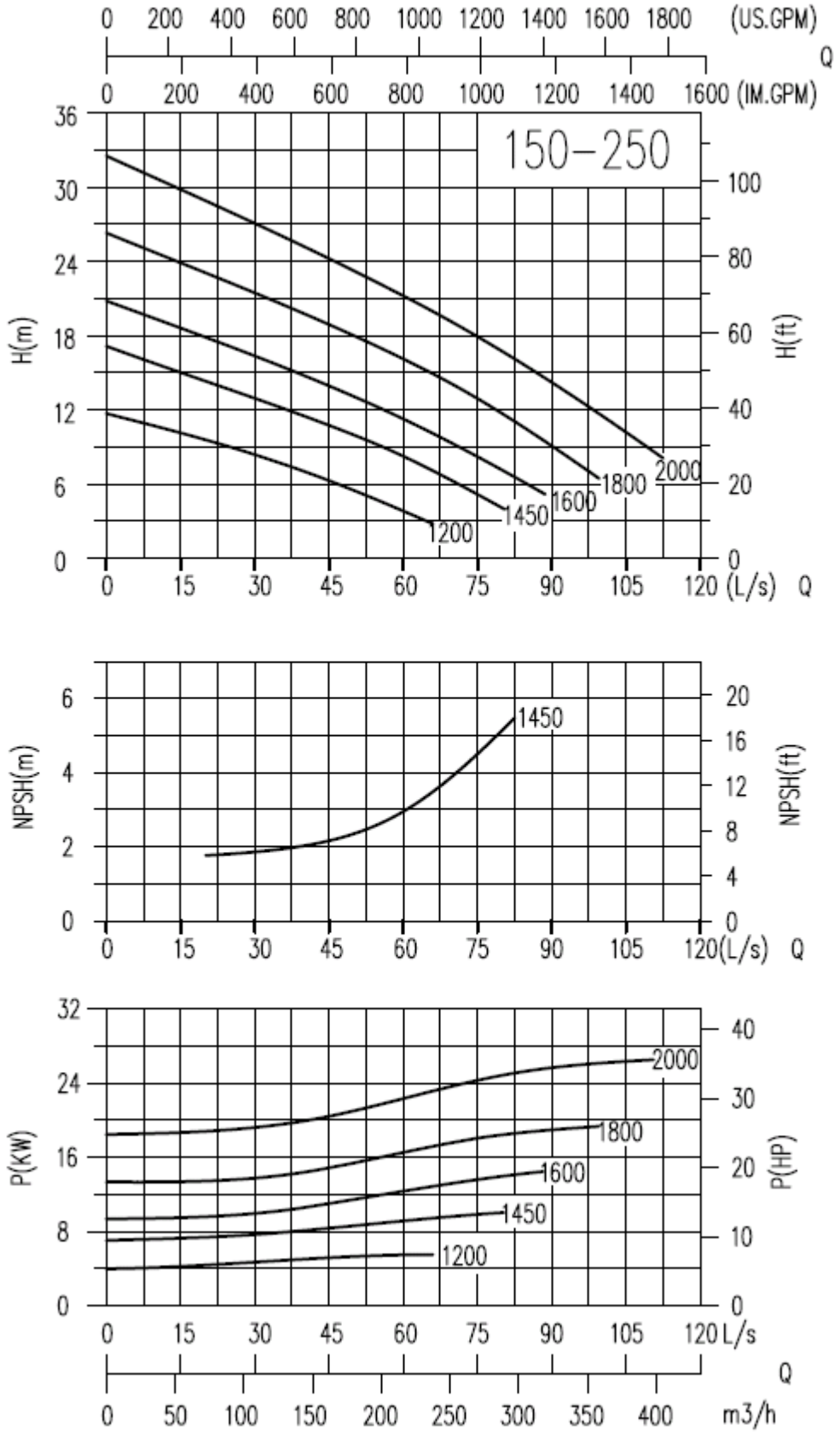
SSP 150 - 250



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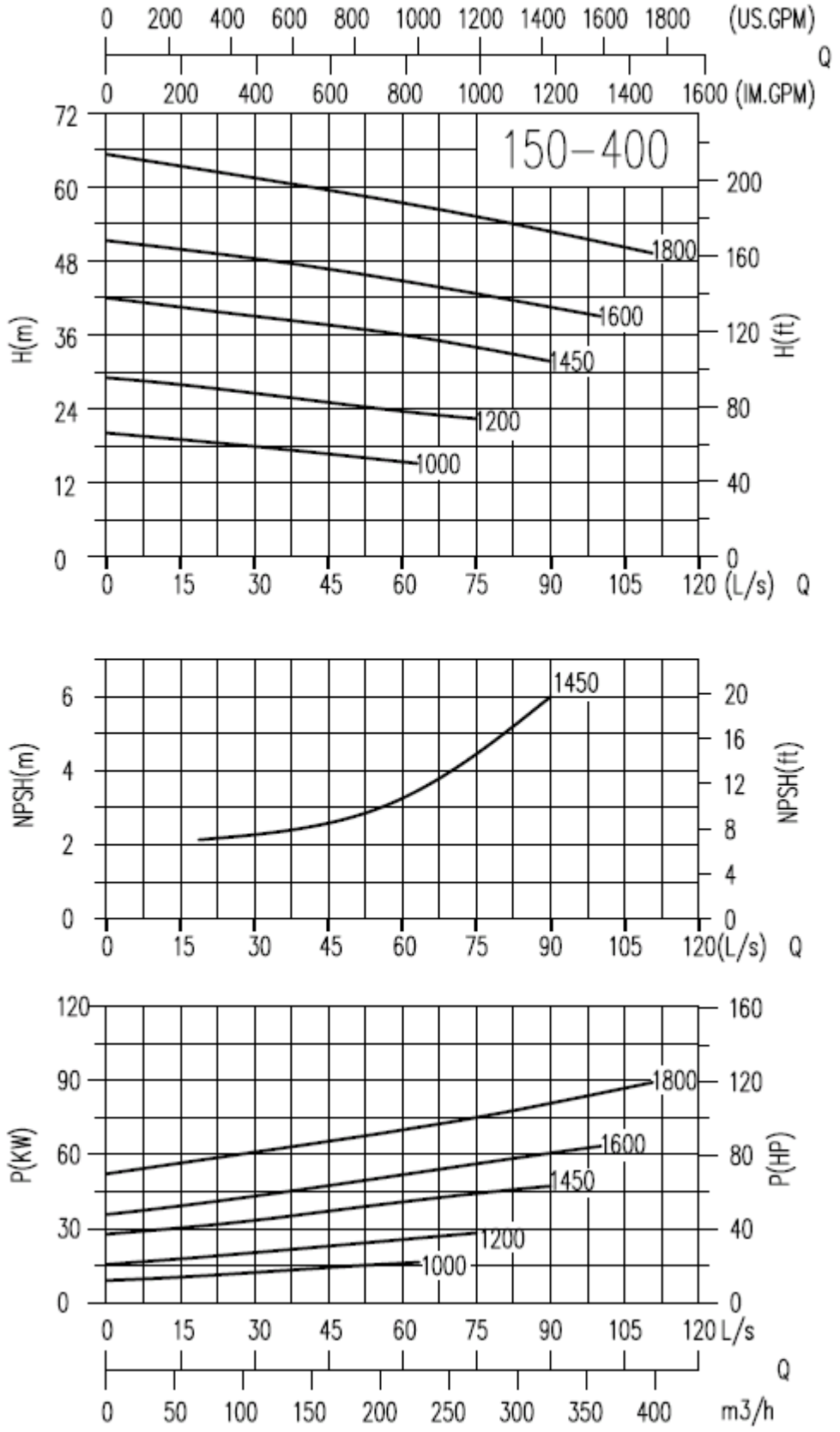
SSP 150 - 400



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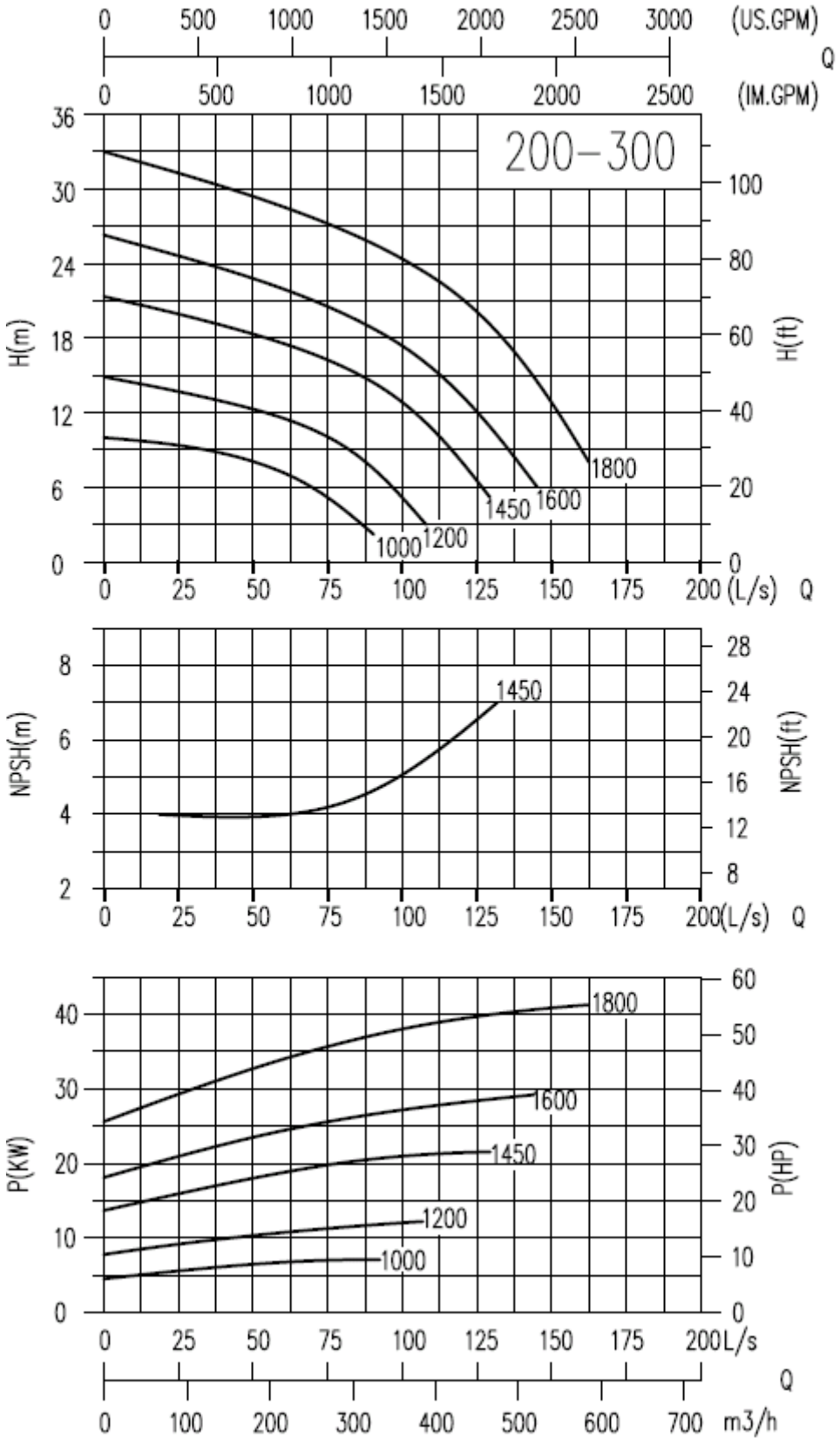
SSP 200 - 300



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