

JAPAN QUALITY

DRUM & CONTAINER PUMPS



AQUASYSTEM DRUM & CONTAINER PUMPS

● ASSEMBLY DETAIL

Safety Coupling

Effectively prevent motor failure

Compact Design

Fast strip down for quick change of pump and motor

Flange Connection

PPHT · SUS316 · PVDF

Barb Fittings

Special design for quick and safe change of fittings.

High Quality Shaft

SS Series : SUS316 ,SUS304
PPHT · PVDF Series : Hastelloy®

PTFE Guide Sleeve

Ensure shaft stability.

Rulon® Shaft Bushing

Rulon® for better acid and alkali resistance, high wear resistance and low friction.



High Performance Bearing Sets

For better performance and reduce power consumption.
Stainless steel for high temperature application.

Inner & Outer Tube

PPHT · PVDF · SUS316 · SUS304 · AL

Threaded Design

Easy maintenance without any special tools required. Quick change of impeller and housing.

PVDF Impeller

Robust construction to improve abrasion resistance.

● **PUMP SERIES**

Special design for easy repair and quick change of spare parts without any special tool.

PTFE guide sleeve and PVDF impeller with abrasion resistant and to make shaft running more stable.

Shaft bushing is made of Rulon® for best chemical resistance.

PPHT、PVDF、SUS316 tube available with drive shaft made of SUS316 or Hastelloy®. It's the best choice for transferring chemical fluid.

● **INDUSTRY SERVED**

Electronic、Optoelectronics、
Semi-conductor、Waste water、
Chemical industry、Petrochemical、
Laboratory、Food industry、Cosmetic
Biochemistry、Paper making industry、
Painting industry、Pharmaceutical、
Ship industry、Automotive
and other industries.



DP-PPHT

DP-PVDF

DP-SS
DP-LL

DP-AL

APPLICATION

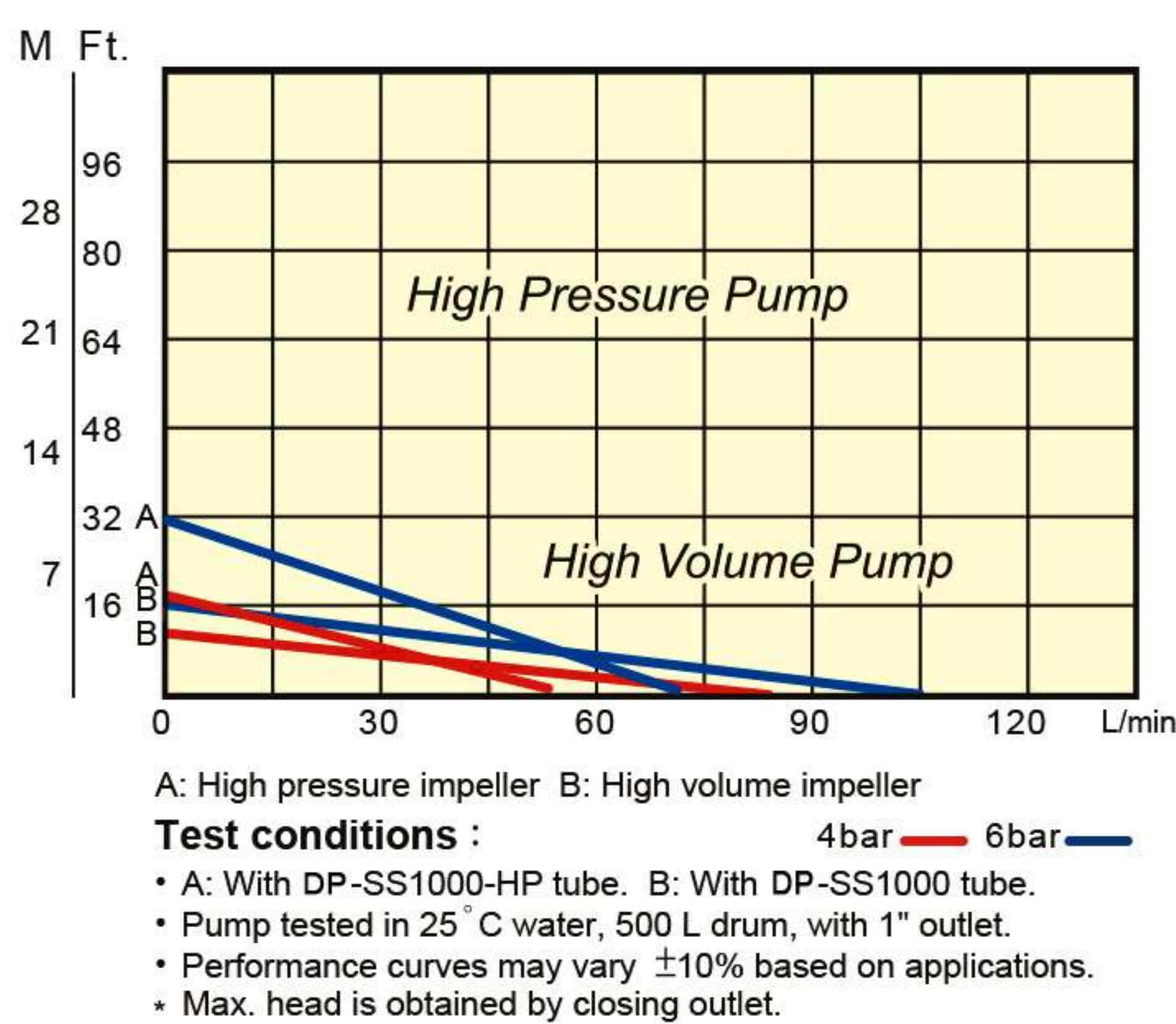
Container Type	Model	Length
5GAL Bottles	DP- Material 700	700mm (27")
55GAL Drums (200L)	DP- Material 1000	1000mm (39")
Barrels & Tanks	DP- Material 1200	1200mm (47")
IBC'S	DP- Material 1500	1500mm (60")
Large Storage Vessels	DP- Material 1800	1800mm (72")

COMMON APPLICATIONS

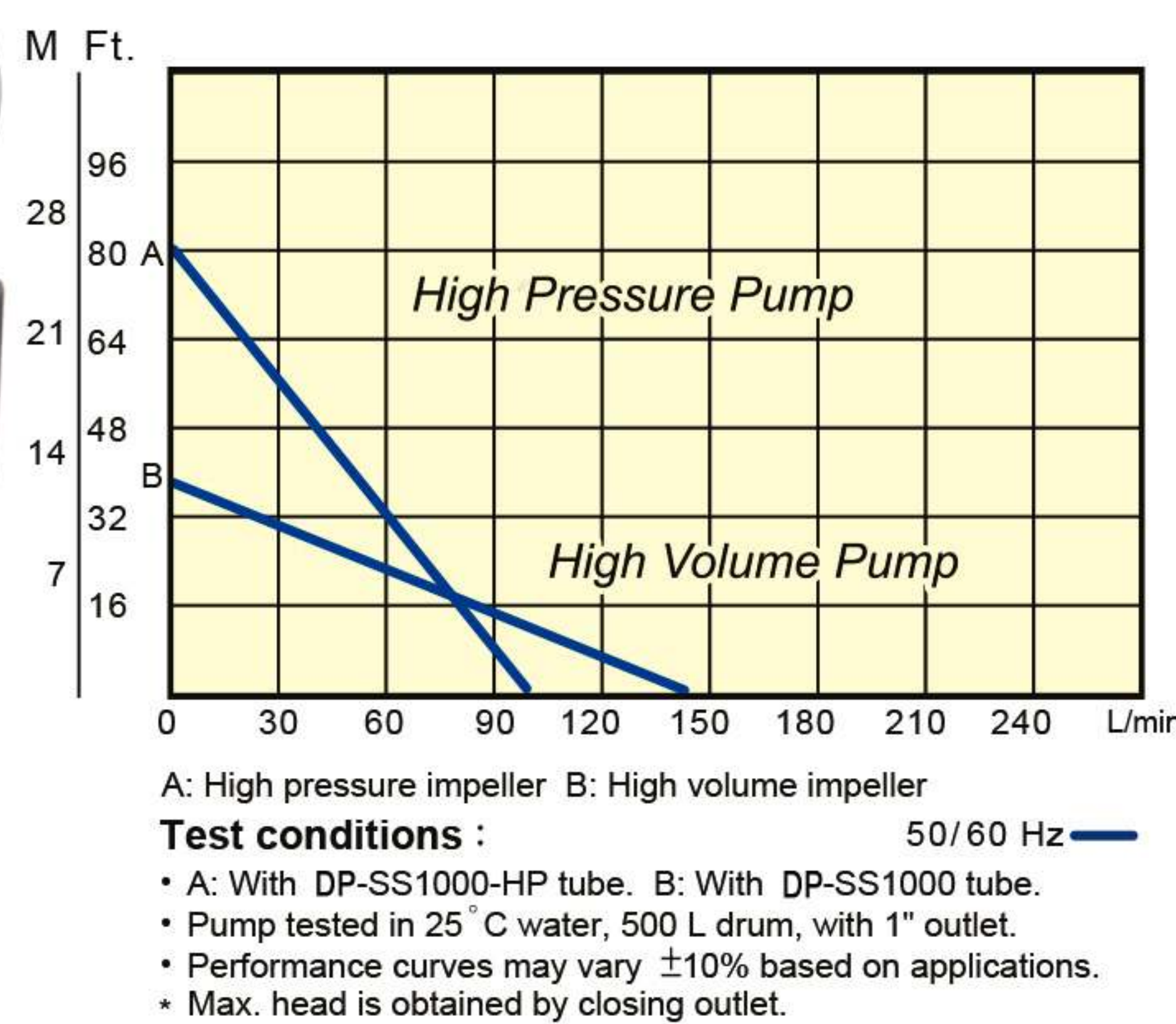
Material	Max. Temp.	Common Applications	
PPHT (Polypropylene)	80°C/175°F	<ul style="list-style-type: none"> Acetic Acid Sulfuric Acid Hydrochloric - 20% 	<ul style="list-style-type: none"> Nitric Acid - 20% Alkalies Ferric Chloride
PVDF	60°C/140°F* (Recommended Temp)	<ul style="list-style-type: none"> Concentrated Nitric Acid Sulfuric Acid-66 Baume Sodium Hypochlorite 	<ul style="list-style-type: none"> Propionic Acid Stearic Acid Hydrofluoric Acid
SUS / AL	100°C/212°F	<ul style="list-style-type: none"> Alcohol Gasoline Lubricants 	<ul style="list-style-type: none"> Isopropyl Ether Solvents Petroleum Products

⚠ For safety, it's recommended to connect ground wire when pumping flammable or solvent liquids.

● AIR MOTOR & VARIABLE SPEED CONTROL MOTOR



⚠ Please install the air filter for reduce moisture from the compressed air supply.



⚠ NOT suitable for pumping flammable or combustible liquid

DP-A1 AIR MOTOR

Max. Inlet Air Pressure: 87psi(6bar)

Air Consumption: 0.55Nm³/min@6kg/cm²

Joint (air): 1/4" NPT

Accessories: Muffler 、 Air Regulator

Casing: Aluminum (Epoxy)

Max. Viscosity: 700cps

RPM: 7,500 (3bar Air Pressure)

RPM: 18,000 (6bar Air Pressure)

Horsepower: 420w (0.56HP)

Weight: 1 kg

VARIABLE SPEED CONTROL MOTOR

DP-E2-V 220 V/ 1 Ø / 50-60 Hz/ 485 W

Max. Viscosity: 1,000cps

Max. RPM: 20,000rpm (NO-LOAD)

Overheated Protector

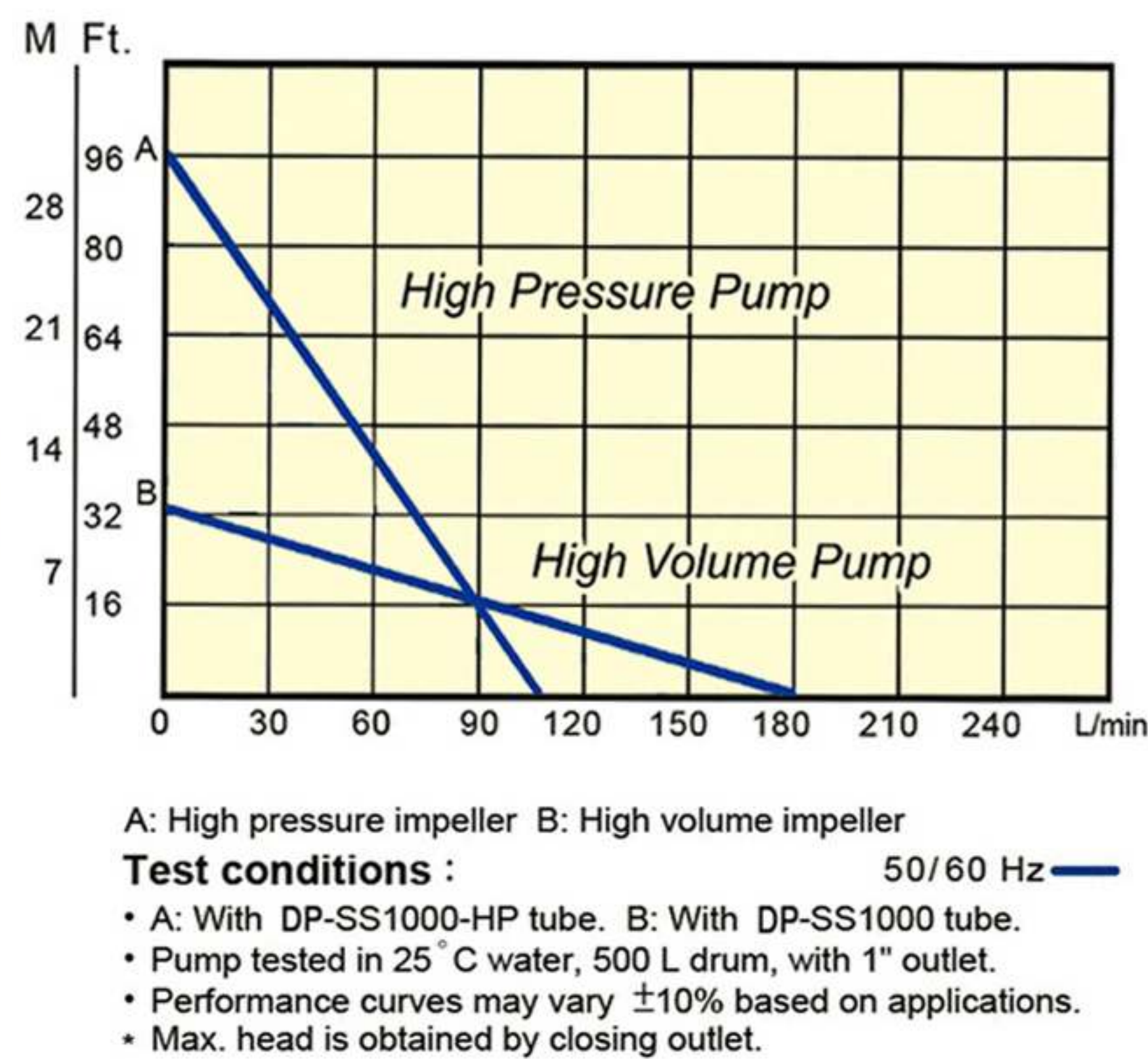
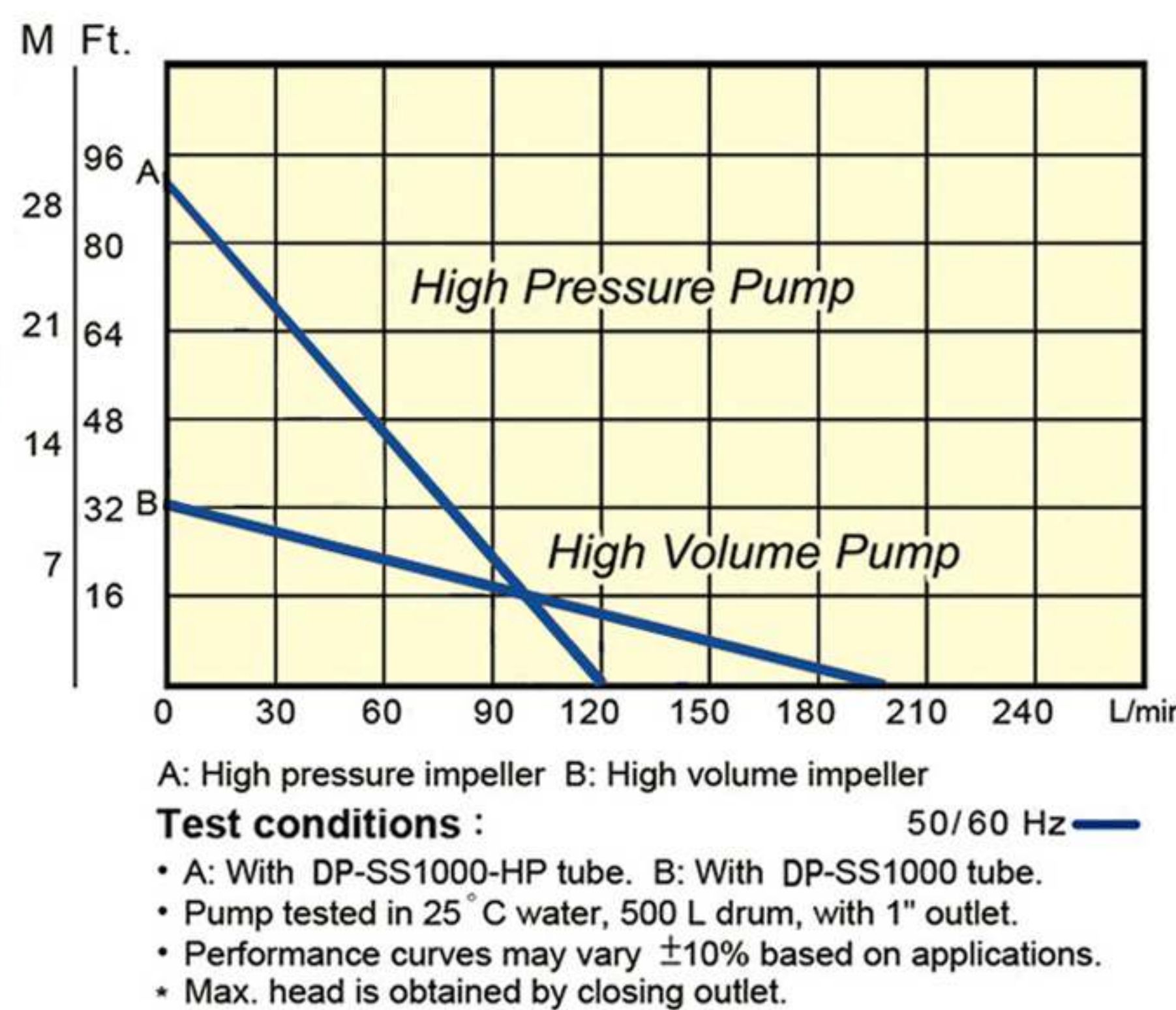
Safety Handling Switch

Casing use fireproof material

5m SJT Electronic Wire & Plug Included

Protection: IP44

Weight: 3 kg



⚠ NOT suitable for pumping flammable or combustible liquid

EXPLOSION PROOF MOTOR

DP-SB-3 220 V/ 1 Ø / 50-60 Hz/ 880 W

Max. Viscosity: 500 cps (800 cps for HP-version)

Max. RPM: 12,000 rpm (NO-LOAD)

Safety & Ergonomic Design

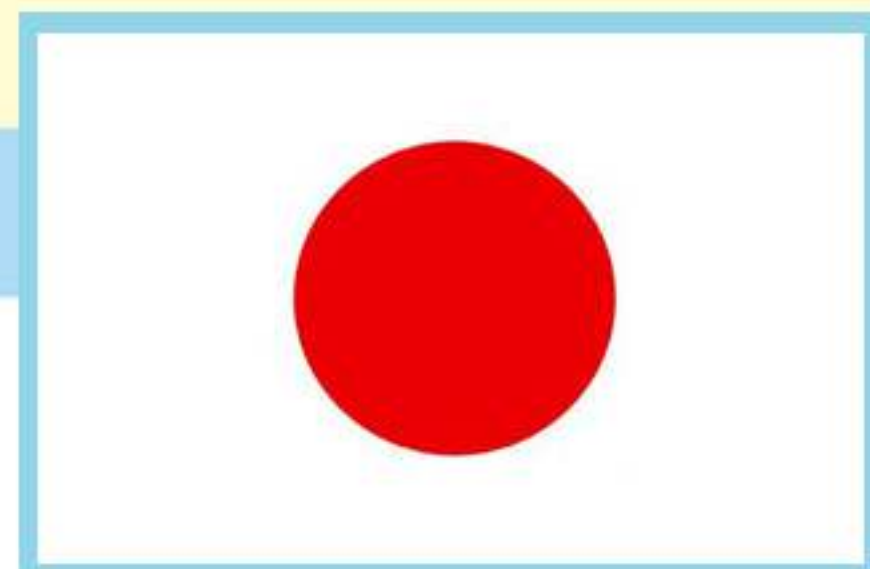
Explosion Proof Class: d II B T4

Totally Enclosed Aluminum Alloy Casing

3m SJT Electronic Wire

Protection: IP55

Weight: 4.4 kg



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FIXED SPEED MOTOR

DP-B-110 220 V/ 1 Ø / 50-60 Hz/ 1100 W

Max. Viscosity: 500 cps (800 cps for HP-version)

Max. RPM: 10,000 rpm (NO-LOAD)

Safety & Ergonomic Design

Insulation Class E

Polycarbonate Casing Material

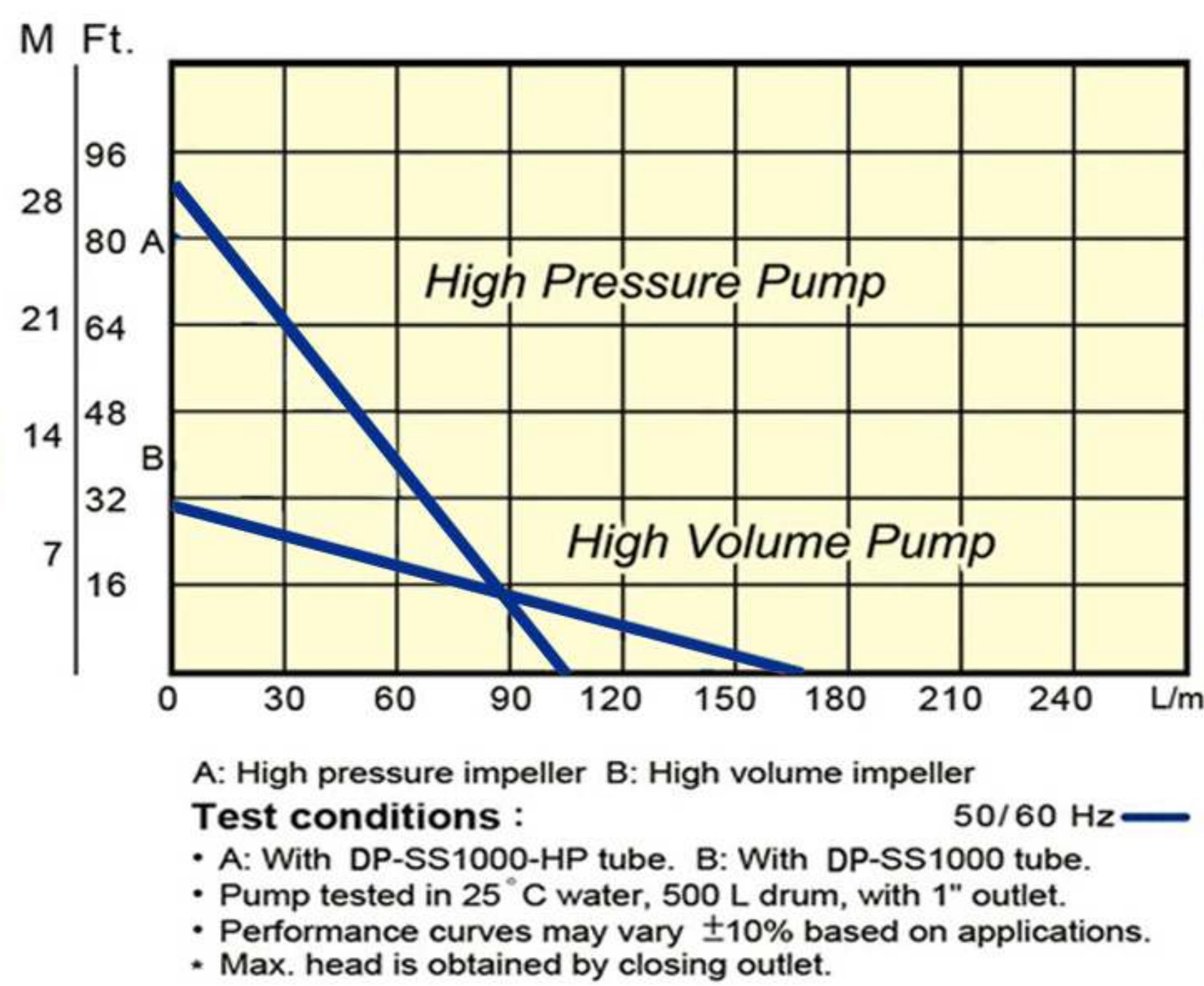
3m SJT Electronic Wire

Protection: IP20

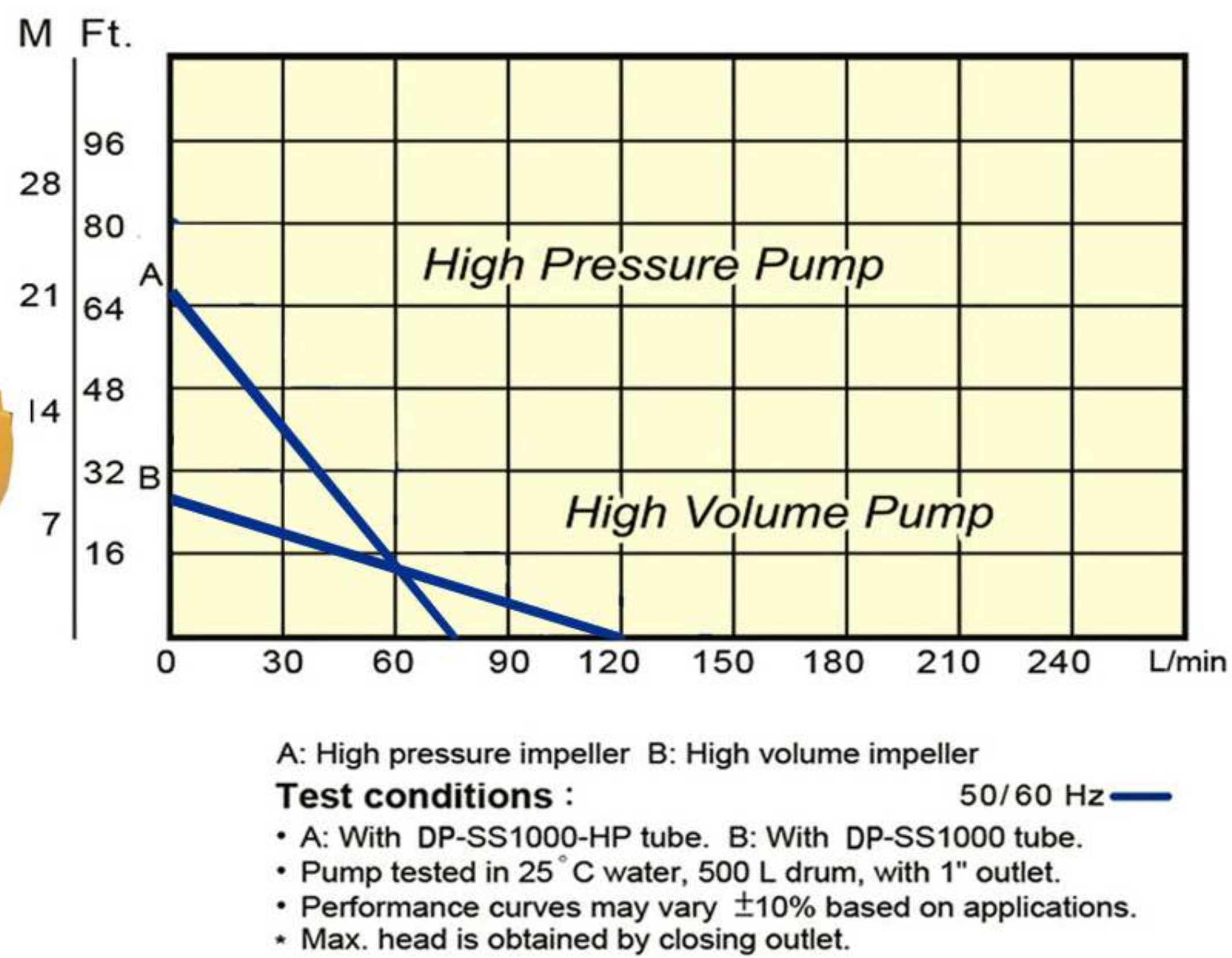
Weight: 3.38 kg



● AIR MOTOR & VARIABLE SPEED CONTROL MOTOR



⚠ NOT suitable for pumping flammable or combustible liquid



⚠ NOT suitable for pumping flammable or combustible liquid

FIXED SPEED MOTOR

DP-B-88	220 V/ 1 Ø / 50-60 Hz/ 880 W
Max. Viscosity: 500 cps (800 cps for HP-version)	
Max. RPM: 10,000 rpm (NO-LOAD)	
Safety & Ergonomic Design	
Insulation Class E	
Polycarbonate Casing Material	
3m SJT Electronic Wire	
Protection: IP20	
Weight: 3.3 kg	

FIXED SPEED MOTOR

DP-B-55	220 V/ 1 Ø / 50-60 Hz/ 550 W
Max. Viscosity: 500 cps (800 cps for HP-version)	
Max. RPM: 8,000 rpm (NO-LOAD)	
Safety & Ergonomic Design	
Insulation Class E	
Polycarbonate Casing Material	
3m SJT Electronic Wire	
Protection: IP20	
Weight: 2.3 kg	

PUMP PACKAGE

Special specification is available upon request

AQUA SYSTEM CO.,LTD.

PUMP PACKAGE

Special specification is available upon request

JAPAN QUALITY

DP-Series Drum Pump



DP-E2-V	DP-A1	DP-SB-3	DP-B-110	DP-B-88	DP-B-55

<p>Dimension</p> <p>SS/LL D=42 PPHT D=41 PVDF D=41 AL D=41</p> <p>Unit</p>					
	DP-SS (SS304)	DP-PPHT	DP-PVDF	DP-LL (SS316)	DP-AL