



AQUA
SYSTEM



JAPAN QUALITY

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.



APPLICATION

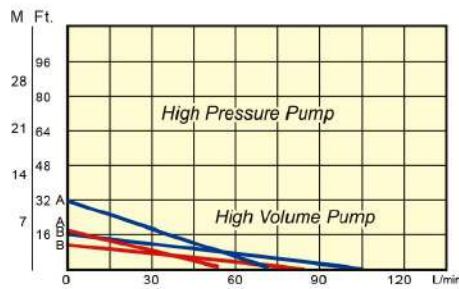
Container Type	Model	Length
5GAL Bottles	DP - Material 700	700mm (27")
55GAL Drums (200L)	DP - Material 1000	1000mm (39")
Barrels & Tanks	DP - Material 1200	1200mm (47")
IBC'S	DP - Material 1500	1500mm (60")
Large Storage Vessels	DP - Material 1800	1800mm (72")

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

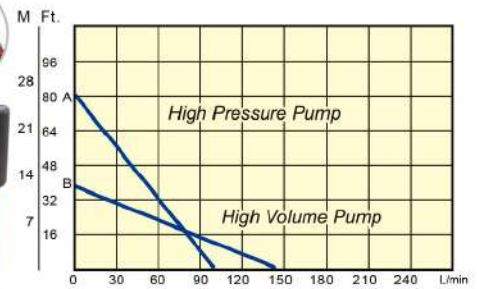
⚠ For safety, it's recommended to connect ground wire when pumping flammable or solvent liquids.

● AIR MOTOR & VARIABLE SPEED CONTROL MOTOR



A: High pressure impeller B: High volume impeller
Test conditions :
 • A: With DP-SS1000-HP tube. B: With DP-SS1000 tube.
 • Pump tested in 25 °C water, 500 L drum, with 1" outlet.
 • Performance curves may vary $\pm 10\%$ based on applications.
 • Max. head is obtained by closing outlet.

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



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Test conditions :
 • A: With DP-SS1000-HP tube. B: With DP-SS1000 tube.
 • Pump tested in 25 °C water, 500 L drum, with 1" outlet.
 • Performance curves may vary $\pm 10\%$ based on applications.
 • Max. head is obtained by closing outlet.

⚠ 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

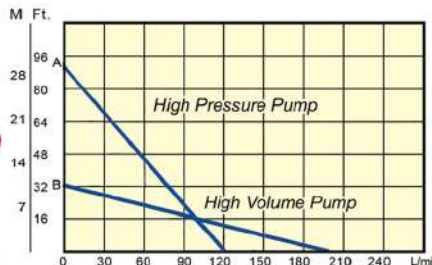
Safety Handling Switch

Casing use fireproof material

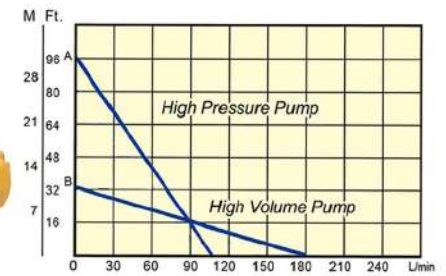
5m SJT Electronic Wire & Plug Included

Protection: IP44

Weight: 3 kg



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Test conditions :
 • A: With DP-SS1000-HP tube. B: With DP-SS1000 tube.
 • Pump tested in 25 °C water, 500 L drum, with 1" outlet.
 • Performance curves may vary $\pm 10\%$ based on applications.
 • Max. head is obtained by closing outlet.



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Test conditions :
 • A: With DP-SS1000-HP tube. B: With DP-SS1000 tube.
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⚠ 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

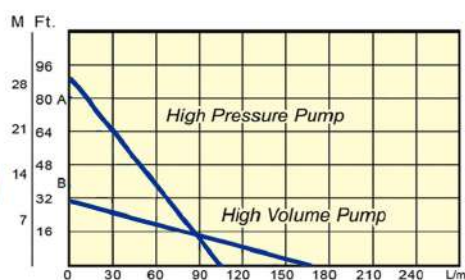
Protection: IP20

Weight: 3.38 kg



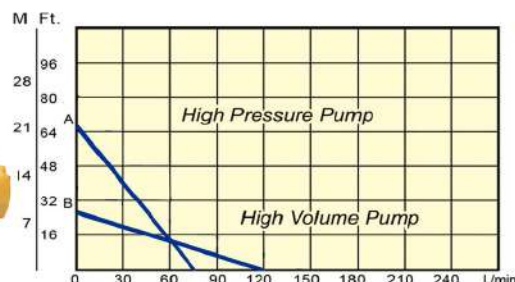
AQUA
SYSTEM

● AIR MOTOR & VARIABLE SPEED CONTROL MOTOR



A: High pressure impeller B: High volume impeller
Test conditions : 50/60 Hz
• A: With DP-SS1000-HP tube. B: With DP-SS1000 tube.
• Pump tested in 25 °C water, 500 L drum, with 1" outlet.
• Performance curves may vary $\pm 10\%$ based on applications.
• Max. head is obtained by closing outlet.

⚠ NOT suitable for pumping flammable or combustible liquid



A: High pressure impeller B: High volume impeller
Test conditions : 50/60 Hz
• A: With DP-SS1000-HP tube. B: With DP-SS1000 tube.
• Pump tested in 25 °C water, 500 L drum, with 1" outlet.
• Performance curves may vary $\pm 10\%$ based on applications.
• Max. head is obtained by closing outlet.

⚠ 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

- Nozzle
- Tube
- Motor
- Hose
- Wall Mount Bracket
- Adapter



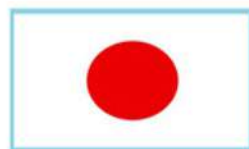
PUMP PACKAGE

Special specification is available upon request

- Nozzle
- Tube
- Motor
- Hose
- Wall Mount Bracket
- Adapter



DP-Series Drum Pump



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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>	<p>Ø I.D.Hose 25</p> <p>DP-SS (SS304)</p>	<p>Ø I.D.Hose 25</p> <p>DP-PPHT</p>	<p>Ø I.D.Hose 25</p> <p>DP-PVDF</p>	<p>Ø I.D.Hose 25</p> <p>DP-LL (SS316)</p>	<p>Ø I.D.Hose 32</p> <p>DP-AL</p>
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