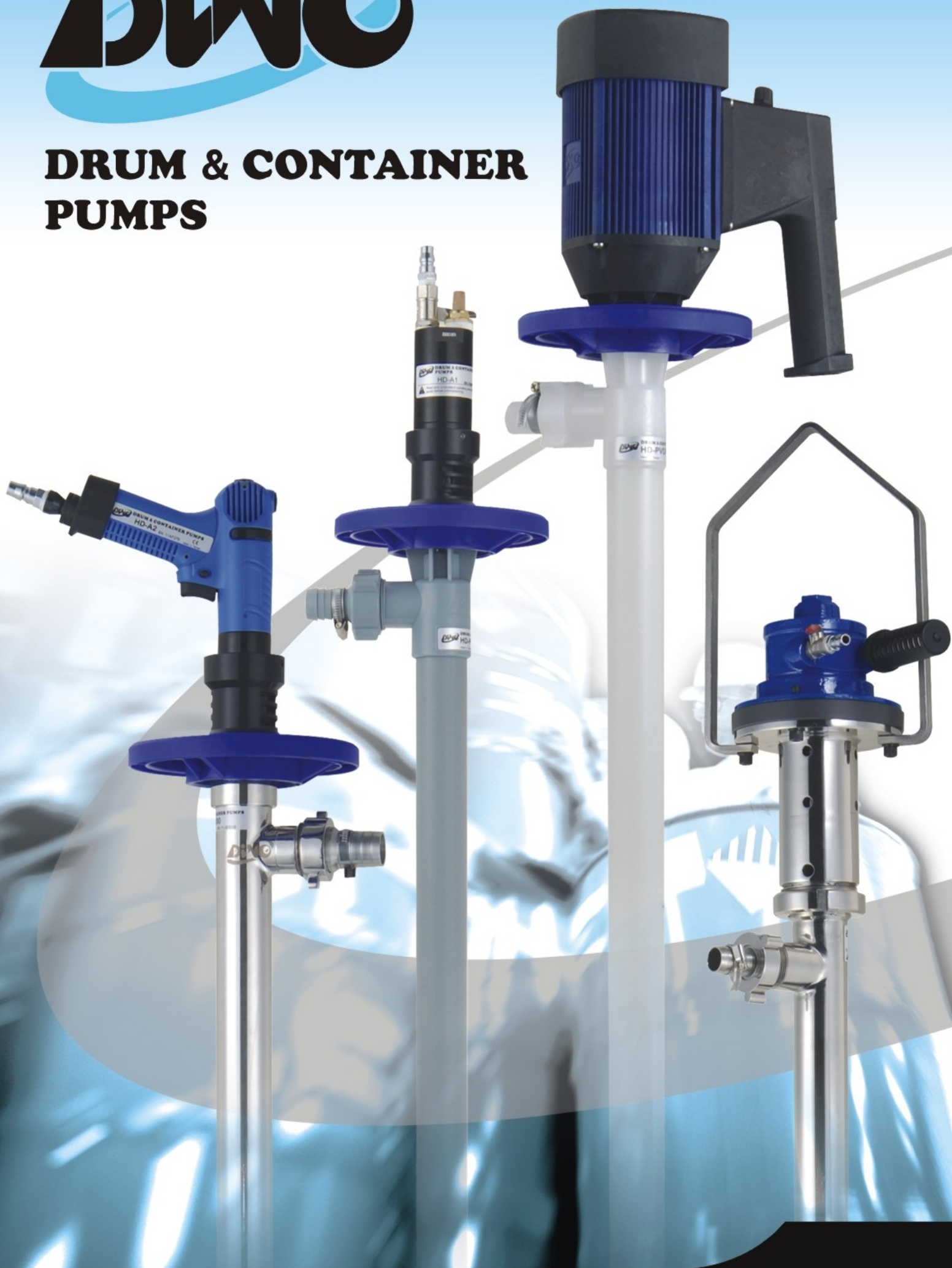
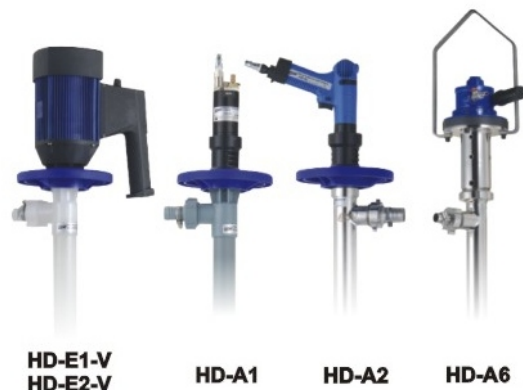


# **DiNO**

## **DRUM & CONTAINER PUMPS**



● **ASSEMBLY DETAIL**



**Safety Coupling**

Effectively prevent motor failure

**Compact Design**

Fast strip down for quick change of pump and motor

**High Performance Bearing Sets**

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

**Flange Connection**

PPHT · SUS316 · PVDF

**Barb Fittings**

Special design for quick and safe change of fittings.

**Inner & Outer Tube**

PPHT · PVDF · SUS316

**High Quality Shaft**

SS Series : SUS316  
PPHT · PVDF Series : Hastelloy®

**PTFE Guide Sleeve**

Ensure shaft stability.

**Threaded Design**

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

**Rulon® Shaft Bushing**

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

**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          | HD- Material 700  | 700mm (27")  |
| 55GAL Drums (200L)    | HD- Material 1000 | 1000mm (39") |
| Barrels & Tanks       | HD- Material 1200 | 1200mm (47") |
| IBC'S                 | HD- Material 1500 | 1500mm (60") |
| Large Storage Vessels | HD- Material 1800 | 1800mm (72") |

## COMMON APPLICATIONS

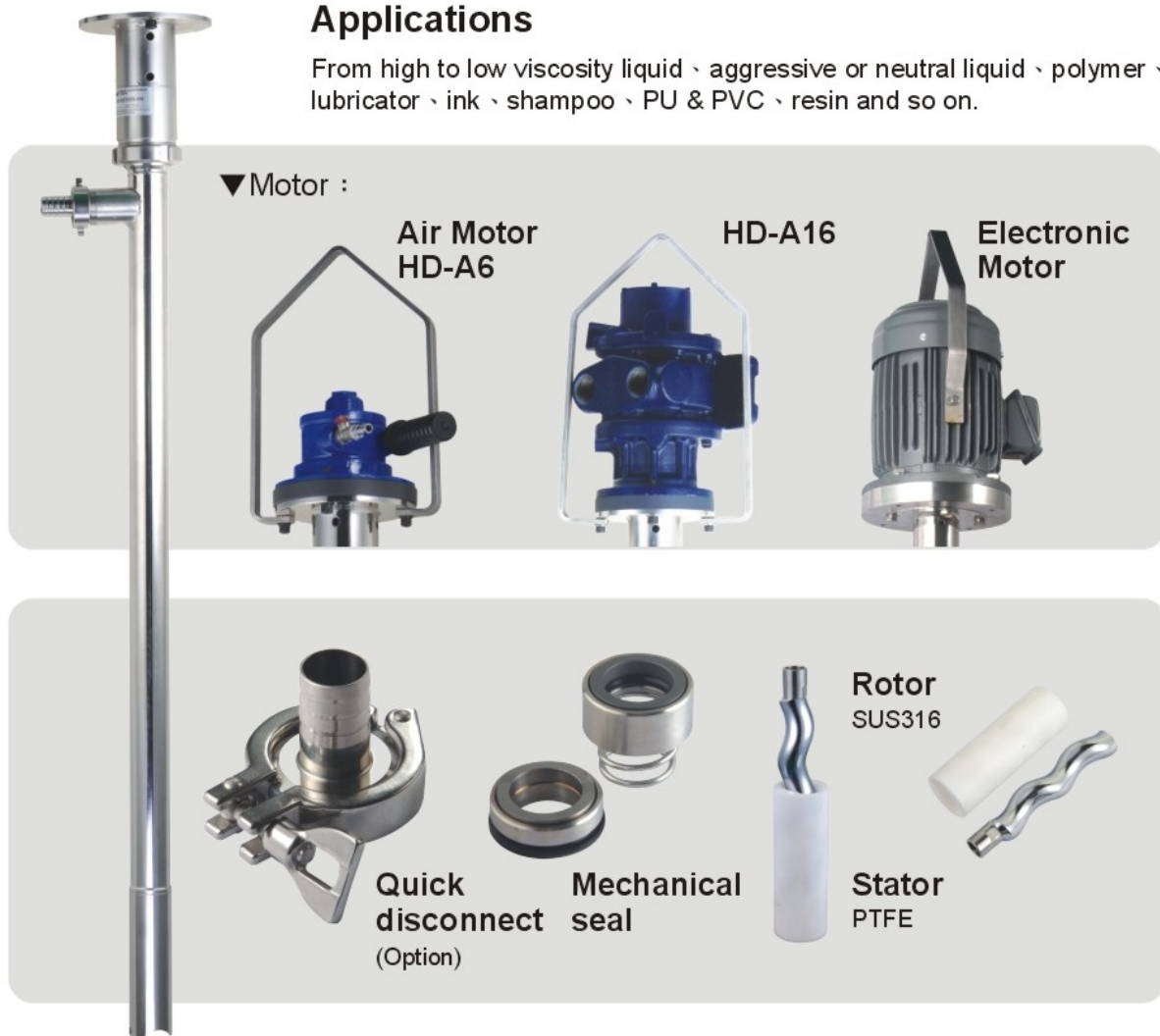
| Material                | Max. Temp.  | Common Applications                                                                                                                           |                                                                                                                         |
|-------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| PPHT<br>(Polypropylene) | 80°C/175°F  | <ul style="list-style-type: none"> <li>• Acetic Acid</li> <li>• Sulfuric Acid</li> <li>• Hydrochloric - 20%</li> </ul>                        | <ul style="list-style-type: none"> <li>• Nitric Acid - 20%</li> <li>• Alkalies</li> <li>• Ferric Chloride</li> </ul>    |
| PVDF                    | 100°C/212°F | <ul style="list-style-type: none"> <li>• Concentrated Nitric Acid</li> <li>• Sulfuric Acid-66 Baume</li> <li>• Sodium Hypochlorite</li> </ul> | <ul style="list-style-type: none"> <li>• Propionic Acid</li> <li>• Stearic Acid</li> <li>• Hydrofluoric Acid</li> </ul> |
| SS                      | 100°C/212°F | <ul style="list-style-type: none"> <li>• Alcohol</li> <li>• Gasoline</li> <li>• Aqueous Ammonia</li> </ul>                                    | <ul style="list-style-type: none"> <li>• Isopropyl Ether</li> <li>• Solvents</li> <li>• Petroleum Products</li> </ul>   |

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

## ● HD HIGH VISCOSITY SCREW PUMP

### Applications

From high to low viscosity liquid 、 aggressive or neutral liquid 、 polymer 、 lubricator 、 ink 、 shampoo 、 PU & PVC 、 resin and so on.



### **HD-HV** High viscosity series

Model : HD-SS700-HV Size : 700mm (27") 5 GAL. Bottles

HD-SS1000-HV 1000mm (39") 55 GAL. (200L) Drum

HD-SS1200-HV 1200mm (42") Barrels & Tanks

Max. Temp. : 120°C/248°F

Outlet Dimension : 27.5mm / 33mm

Pump : SUS304 / SUS316

Rotor : SUS316

Stator : PTFE

Max. Viscosity : 100,000cps

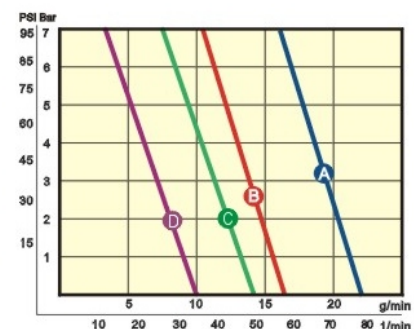
Mechanical Seal : SIC

O-ring : PTFE

Max. Flow Rate : 90L/min (Tested with 2000cps epoxy and HD-A6 air motor)

Max. Pressure : 10bar

Weight : 12kg



HD-A16: A-7bar B-4bar

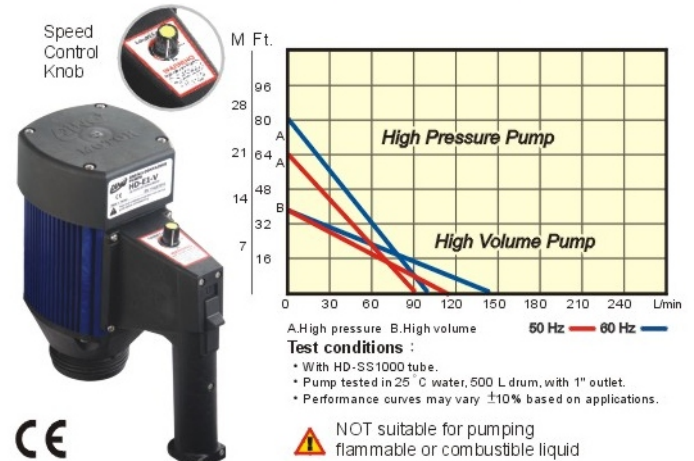
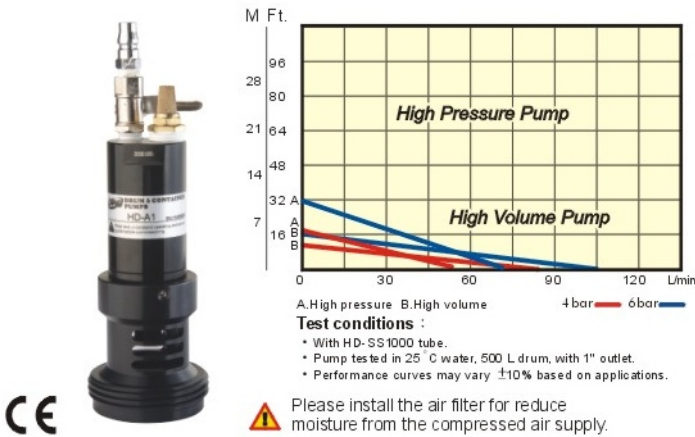
HD-A6: C-7bar D-4bar

**Test conditions:**

- Viscosity: 5,000cps
- Performance curves may vary  $\pm 10\%$  based on applications.



## ● AIR MOTOR & VARIABLE SPEED CONTROL MOTOR



### HD-A1 OIL FREE AIR MOTOR

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

Air Consumption: 0.55Nm<sup>3</sup>/min@6kg/cm<sup>2</sup>

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

HD-E1-V 110 V / 1  $\phi$  / 50-60Hz / 485w

HD-E2-V 220 V / 1  $\phi$  / 50-60Hz / 485w

Max. Viscosity: 1,000cps

Max. RPM: 20,000rpm

Overheated Protector

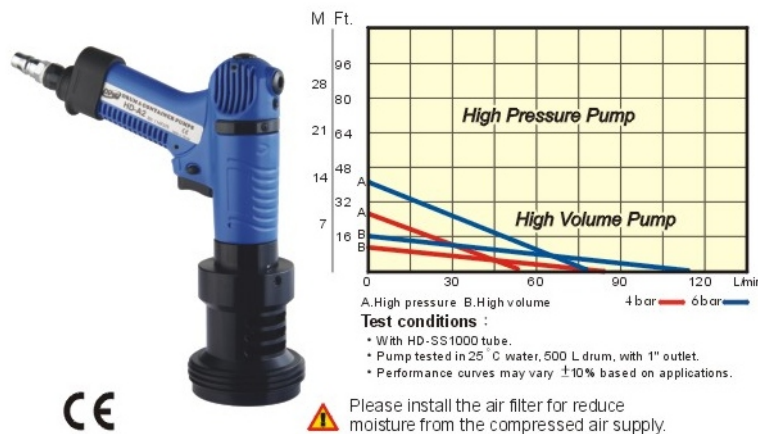
Safety Handling Switch

Casing use fireproof material

5m SJT Electronic Wire & Plug Included

Protection: IP44

Weight: 3 kg



### HD-A2 OIL FREE AIR MOTOR

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

Air Consumption: 0.55Nm<sup>3</sup>/min@6kg/cm<sup>2</sup>

Joint (air): 1/4" NPT

Casing: Aluminum (Epoxy)

Max. Viscosity: 1,200cps

RPM: 8,000 (3bar Air Pressure)

RPM: 18,000 (6bar Air Pressure)

Horsepower: 560w (0.75HP)

Weight: 1.2 kg

### PUMP PACKAGE

Special specification is available upon request.



## ● OPTIONS

### NOZZLES

- Control the flow rate easily.
- Keep the operating environment clean.
- Design to transfer to small containers safely.
- Body : Polypropylene
- O-Ring : PFA or Viton
- Shaft & Spring : Hastelloy®

### GROUND WIRE

- It's important to connect ground wire when pumping flammable or explosive liquids.
- Each 5M length 16ga electronic wire set comes with clip for connects.

### ADAPTORS

#### Barrel Adaptor

- Material : PE
- 41、43mm(1.6、1.7 inch) thread

#### Air Leaking Adaptor

- Material : PP、SS
- Viton barrier to prevent corrosive air from leaking.

### WALL BRACKET

- SUS316

### TRANSFER HOSE

- PFA Hose
  - 1000mm
  - 1500mm
  - 2000mm
  - Special length is available upon request.
- PVC Braided Hose.

### STRAINERS

- Recommend when pumping dirty chemical liquids containing particle
- Material : PP、PVDF & SS316
- PP mesh : 2mm
- PP inner : 1.5" (38mm)
- outer : 2" (52mm)

### DIGITAL FLOW METER

- Casing : PP,PTFE
- Rotor : ECTFE
- Sensor : CPVC
- Inlet/Outlet : 1"PT
- LCD display

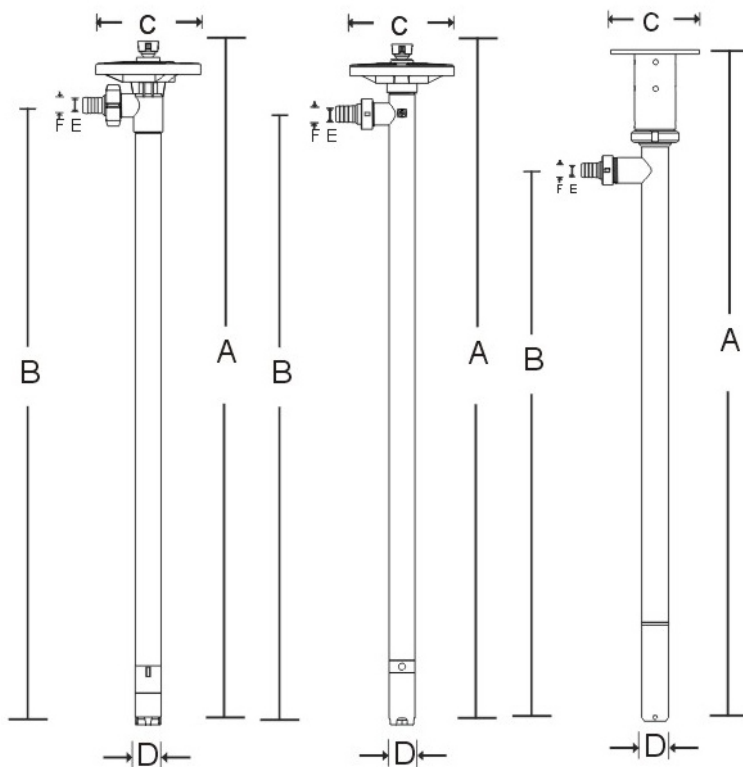


### Hanger

- SUS304
- For high viscosity series.



## ● DIMENSION



HD-PPHT/ PVDF series

HD-SS series

HD-SS-HV series

| Material | Length | A    | B    | C   | D  | E  | F  |
|----------|--------|------|------|-----|----|----|----|
| PPHT     | 700    | 810  | 700  | 170 | 41 | 19 | 27 |
|          | 1000   | 1100 | 1000 | 170 | 41 | 19 | 27 |
|          | 1200   | 1290 | 1200 | 170 | 41 | 19 | 27 |
|          | 1500   | 1590 | 1500 | 170 | 41 | 19 | 27 |
|          | 1800   | 1890 | 1800 | 170 | 41 | 19 | 27 |
| PVDF     | 700    | 810  | 700  | 170 | 41 | 19 | 26 |
|          | 1000   | 1100 | 1000 | 170 | 41 | 19 | 26 |
|          | 1200   | 1300 | 1200 | 170 | 41 | 19 | 26 |
|          | 1500   | 1600 | 1500 | 170 | 41 | 19 | 26 |
|          | 1800   | 1900 | 1800 | 170 | 41 | 19 | 26 |
| SS       | 700    | 810  | 700  | 170 | 42 | 20 | 27 |
|          | 1000   | 1100 | 1000 | 170 | 42 | 20 | 27 |
|          | 1200   | 1300 | 1200 | 170 | 42 | 20 | 27 |
|          | 1500   | 1600 | 1500 | 170 | 42 | 20 | 27 |
|          | 1800   | 1900 | 1800 | 170 | 42 | 20 | 27 |
| SS-HV    | 1000   | 1300 | 1025 | 166 | 56 | 28 | 33 |

※Dimension may vary  $\pm 1\%$  based on product. (Unit: millimeter)

※Special length is available upon request.



### DINO DRUM & CONTAINER PUMPS

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