

DINO

DRUM & CONTAINER PUMPS

นำเข้าและจัดจำหน่ายโดย บริษัท ไนซ์ส (ประเทศไทย) จำกัด
Tel. 0-2898-8901 - 3 , Fax. 0-2898-7745
e-mail : info@nisusthailand.co.th



● **ASSEMBLY DETAIL**



Safety Coupling
Effectively prevent motor failure

Compact Design
Fast strip down for quick change of pump and motor

Flange Connection
PPHT · SUS304 · PVDF

Barb Fittings
Special design for quick and safe change of fittings.

High Quality Shaft
SS Series : SUS316
PPHT · PVDF Series : Hastelloy®

PTFE Guide Sleeve
Ensure stability of the shaft.

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

นำเข้าและจัดจำหน่ายโดย
บริษัท นิสัส (ประเทศไทย) จำกัด
Tel. 0-2898-8901 - 3
Fax. 0-2898-7745
e-mail :info@nisusthailand.co.th

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

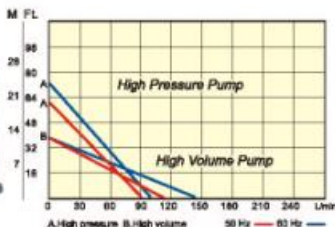
Container Type	Model	Length
5GAL Bottles	HD-Material 700	700mm (27")
55GAL Drums (200L)	HD-Material 1000	1000mm (39")
Barrels & Tanks	HD-Material 1200	1200mm (47")
IBC'S	HD-Material 1500	1500mm (60")
Large Storage Vessels	HD-Material 1800	1800mm (72")

COMMON APPLICATIONS

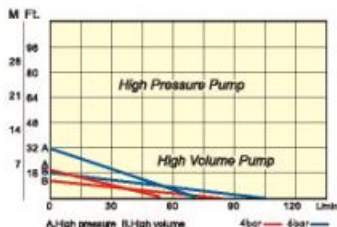
Material	Max. Temp.	Common Applications	
PPHT (Polypropylene)	80°C/175°F	<ul style="list-style-type: none"> • Acetic Acid • Sulfuric Acid • Hydrochloric - 20% 	<ul style="list-style-type: none"> • Nitric Acid - 20% • Alkalies • Ferric Chloride
PVDF	130°C/266°F	<ul style="list-style-type: none"> • Concentrated Nitric Acid • Sulfuric Acid-66 Baume • Sodium Hypochlorite 	<ul style="list-style-type: none"> • Propionic Acid • Stearic Acid • Hydrofluoric Acid
SS	100°C/212°F	<ul style="list-style-type: none"> • Alcohol • Gasoline • Aqueous Ammonia 	<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



⚠ NOT suitable for pumping flammable or combustible liquid



⚠ Please install air filter - regulator - lubricator

VARIABLE SPEED CONTROL MOTOR

HD-E1-V 110 V / 1 φ / 50-60Hz / 800w

HD-E2-V 220 V / 1 φ / 50-60Hz / 800w

Max. Viscosity: 1,000cps

Max. RPM: 19,000rpm

Overheated Protector

Safety Handling Switch

Chemical Resistant Casing

5m SJT Electronic Wire & Plug Included

Protection: IP44

Weight: 3 kg

HD-AI AIR MOTOR

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

Air Consumption: 0.55Nm³/min@6kg/cm²

Joint (air): 1/4"

Accessories: Muffler · Air Regulator

Casing: Aluminum (Chromium)

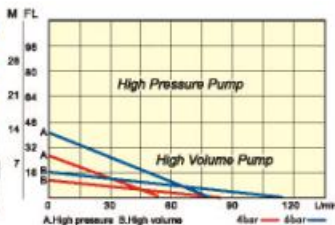
Max. Viscosity: 700cps

RPM: 7,500 (5bar Air Pressure)

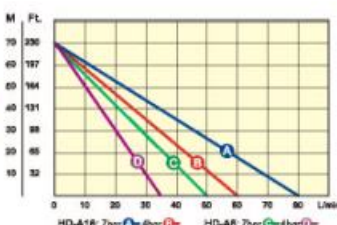
RPM: 18,000 (6bar Air Pressure)

Horsepower: 420w (0.56HP)

Weight: 1 kg



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



⚠ Please install air filter - regulator - lubricator.

HD-A2 OIL FREE AIR MOTOR

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

Air Consumption: 0.55Nm³/min@6kg/cm²

Joint (air): 1/4"

Casing: Aluminum (Epoxy)

Max. Viscosity: 1,200cps

RPM: 5,000 (5bar Air Pressure)

RPM: 18,000 (6bar Air Pressure)

Horsepower: 560w (0.75HP)

Weight: 1.2 kg

HD-A16 AIR MOTOR

Max. Inlet Air Pressure: 100psi (7bar)

Air Consumption: 280CFM@100psi

Joint (air): 1 1/4"bsp

Accessories: Muffler · Air Regulator

Casing: Cast Iron

Max. Viscosity: 100,000cps

Max. RPM: 2,000rpm

Horsepower: 7.5kw (10HP)

Frame: 145TC

Weight: 36 kg

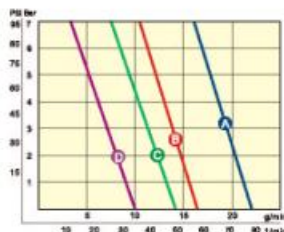
● HD HIGH VISCOSITY SCREW PUMP



Applications

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

▼ Motor:



HD-A16: ○-7bar ○-4bar
HD-A6: ○-7bar ○-4bar

Test conditions:

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



Rotor
SUS316



Stator
PTFE

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 Diameter:	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:	174psi / 12bar
Weight:	12kg

● HD-LB LABORATORY PUMP

Application

Laboratory - small volume dispensing



○- 60Hz ○- 50Hz

Test conditions:

- Pump heated in 18°C water.
- Performance curves may vary ±5% based on application.

HD-LB700 Length: 700mm(27")

HD-LB1000 Length: 1000mm(39")

PUMP TUBE

Material: Polypropylene (PP)

Outlet Diameter: 21mm (0.83")

Inlet Diameter: 27mm (1.06")

Max. Viscosity: 150cps

Max. Inlet Pressure: 0.3kg

Max. Flow Rate: 22L/min

MOTOR

With 5 Meter Electronic Wire, IP44, CE Certification

220V/ 110V/ 1 φ /50 Hz-60Hz/100W

Weight: 2-3 kg

● OPTIONS

NOZZLES

- Control the flow rate easily.
- Keep the operating environment clean.
- Design to transfer to small containers safely.
- Body : Polypropylene & PVDF
- 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 : PVDF · PP
- 41 · 43mm(1.6 · 1.7 inch) thread

Air Leaking Adaptor

- Material : PP · SS
- Viton adaptor to prevent corrosive air from leaking.

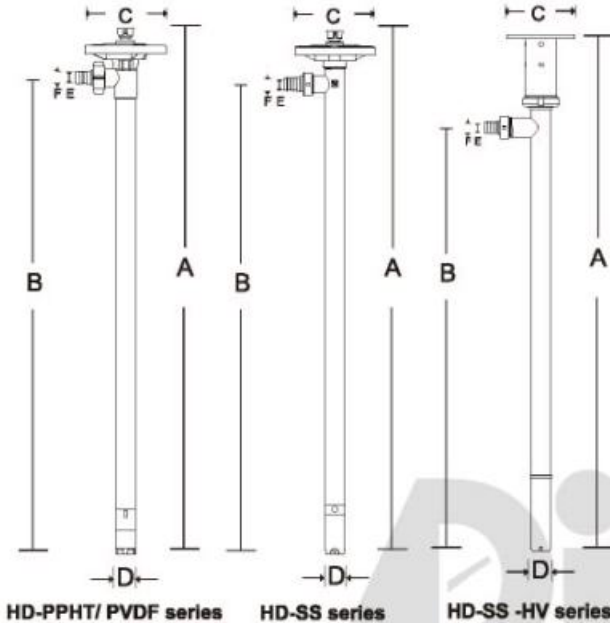
STRAINERS

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

WALL BRACKET

- Stainless Steel

● DIMENSION



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

(Unit: millimeter)



DINO DRUM & CONTAINER PUMPS
e-mail: info@dinopumps.com
website: www.dino.com.tw

นำเข้าและจัดจำหน่ายโดย
บริษัท ไนซ์ส (ประเทศไทย) จำกัด
Tel. 0-2898-8901 - 3
Fax. 0-2898-7745
e-mail : info@nisusthailand.co.th