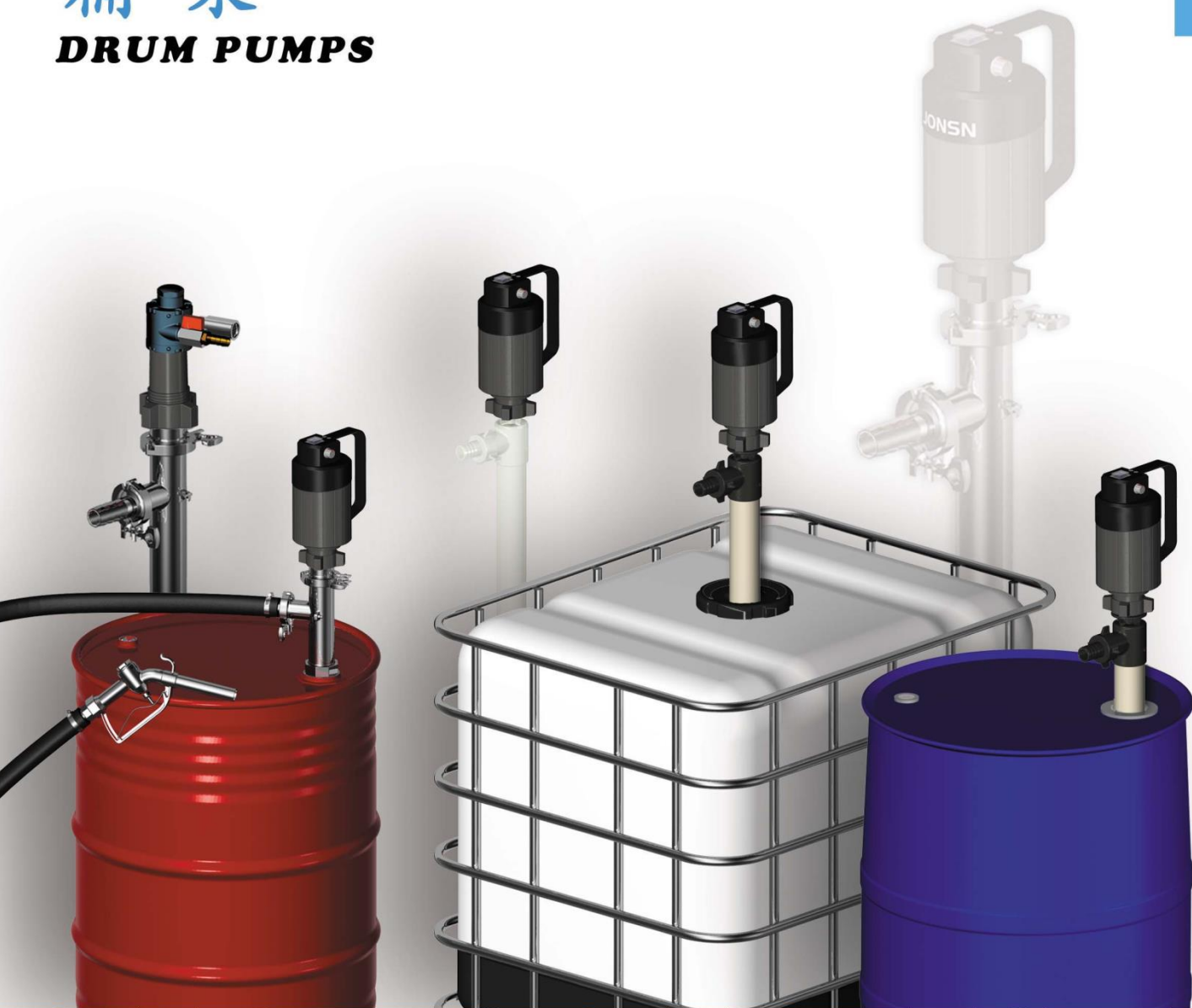


INTEGRAL SOLUTION FOR BARREL AND CONTAINER LIQUID TRANSFER
桶装流体输送整体解决方案

桶 泵

DRUM PUMPS



Manufacturer of high quality industrial pumps



JONSN
DRUM PUMPS

PT SERIES HIGH PERFORMANCE DRUM PUMP



Applications:

Mainly used for all kinds of strong acids, alkalis, organic solvents, additives, auxiliaries, oils and other kinds of barrels or containers of medium and low viscosity media. Such as: methanol, acetone, toluene, acetic acid, nitric acid, phosphoric acid, sodium hydroxide, sodium hypochlorite, hydrofluoric acid, acrylic acid, ammonia, cyclohexane, etc.

Features:

Security: Designed with a non-leakage, high pressure shielding structure, the PT drum pump is safe to use and able to convey all kinds of hazardous material.

Practicality: Portable with a total weight 4-8kg for pump & motor; The PT pump has a high performance closed impeller, enabling it to empty a standard 200L drum in 2-3 minutes.

Versatility: Standard quick-fit 1" connector or quick-fit G1 thread structure, suitable for all types of connectors, complete with accessories to meet different demands

Reliability: The motor and pump tube adopt quick-alignment mounting structure and the modular construction design makes installation, dismantling for cleaning and maintenance easier without auxiliary tools. Dismantling and assembling can be completed in 5-10 minutes.

Environment Friendliness: No pollution to the environment.

Technical data:

➤ **Flow rate:** 0-160 l/min (electric motor), 0-120 l/min (air motor)

➤ **Delivery head:** 0-25 m (electric motor), 0-16 m (air motor)

➤ **Max. temperature:** PP: 71 °C, PVDF: 49 °C, SS:160 °C

➤ **Viscosity:** 0-800 cps (electric motor), 0-300 cps (air motor)

➤ **Max. gravity:** 1.8

➤ **Drive:** Electric motor or air motor as option.

➤ **Immersion length:** 700mm, 1000mm, 1200mm, Non-standard custom

Pump Material

Model	Out Tube	Shaft	O-Ring	Bushing	Coupling	Impeller	Weight
PTPH	PP	HC276	VITON	PTFE	Zinc-alloy	ETFE	2.5kg
PTPS	PP	SS304	VITON	PTFE	Zinc-alloy	ETFE	2.5kg
PTVH	PVDF	HC276	VITON	PTFE	Zinc-alloy	ETFE	3.5kg
PTSS	SS304/SS316	SS304/SS316	PTFE	PTFE	Zinc-alloy	ETFE	5.6kg

Pump model instruction

PT P H 10
1 2 3 4

1 Pump series number

2 Pump material: S: Stainless steel P: PP V: PVDF

3 Shaft Material: S: Stainless steel H: Hastelloy(HC276)

4 Pump Length: 07: 700mm 10: 1000mm 12: 1200mm C : Customized

PT SERIES HIGH PERFORMANCE DRUM PUMP



TM750



AM330



AM640

Motor parameters

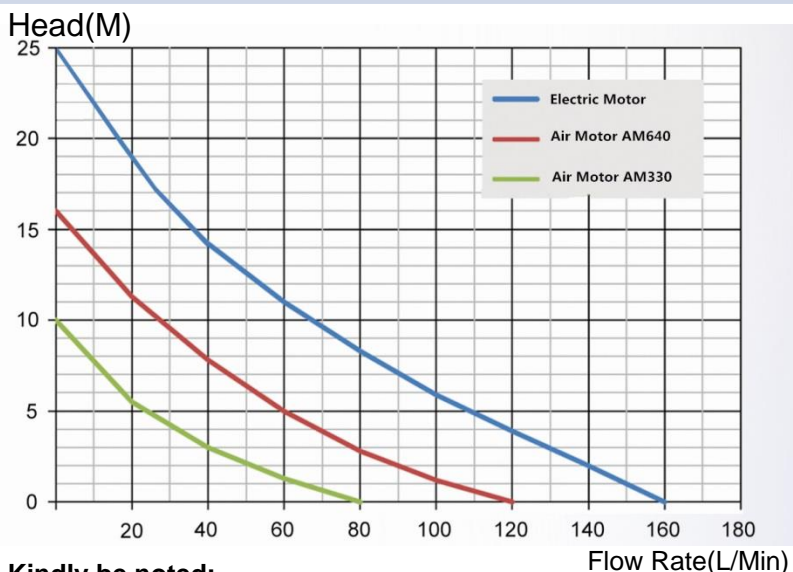
Model	Type	Power (W)	Voltage (V)	Air consumption (m³/h)	Rotate speed (rpm)	Weight (kg)	Application area
TM750	Speed motor	750	220		0-10000	3.5	Normal
BM800	Ex motor	800	220		10000	5.0	Explosion-proof area
AM640	Air motor	640		56.5	0-16000	2.0	Explosion-proof area

Note:

- ◆ The performance of the pump tube varies with the motor, check the production parameters when selecting the motor.
- ◆ The actual speed of the air motor is influenced by the pressure of the air source, which directly affects the flow and head.
- ◆ While using air motors, it is important to use an air filter to filter out any moisture from the air supply.
- ◆ Use air motors or explosion-proof motors with stainless steel tubes in explosion-proof areas and install potential grounding wires to prevent explosions caused by electrostatic sparks.

CURVE

PT SERIES



Kindly be noted:

1. Above data are based on 25°C water as test media.
2. Flow and head are affected by viscosity, density of liquid and motor rotate speed.



PT Series Pump Tube Material And Structural Drawing

PT series tubing Structural Analysis

High Performance Coupling

Zinc alloy / nitrile rubber material, high torque, high temperature can greatly absorb motor vibrations and load the material fatigue strength, service life of up to 2 years

Fast loading and unloading clamp

JONSON professional design, patent structure
Regular cleaning, easy maintenance

Pump Tube

PTSS: 304SS /316L

Shaft Guide

Teflon material, resistant to organic solvents, resistant to strong acid wear and self-lubricating, spindle to ensure smooth operation

High Performance Impeller

High Performance Bearing Sets

Fast loading and unloading hose connector

Fast loading and unloading hose connector

Pump Tube

PTPH/PTPS: PP
PTVH: PVDF

Main Shaft

PTPS: 304SS/316L
PTPH/PTVH: Hastelloy®

Center Bracket

Shaft

PTSS : 304SS/316L

PTSS Pump tube

PTPS/PTPH/PTVH Pump tube

TB SERIES MEDIUM-SIZED DRUM PUMP



Features:

The TB series is designed and developed for the transfer of liquids from small bore vessels, with a modular construction and an unglazed seal and leak-free design to reduce future maintenance costs. The 42 mm pipe diameter is suitable for low viscosity media in 25 kg drums, such as solvents, bleaching liquids, hydrochloric acid, nitric acid, sulphuric acid and other media.

Technical data:

- **Max. Flow rate:** 120l/min (electric motor), 58 l/min (air motor)
- **Max. head:** 10 m (electric motor), 5m (air motor)
- **Max. temperature:** 66 °C
- **Viscosity:** 800 cps
- **Max. gravity:** 1.8
- **Drive:** Electric motor or air motor as option.
- **Immersion length:** 700mm, 1000mm, 1200mm, Non-standard custom

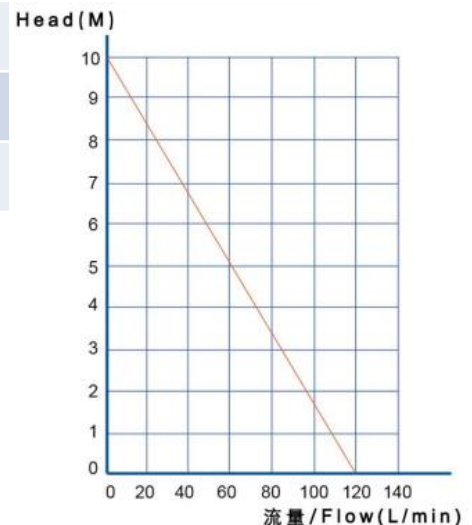
Pump Tube Material

Model	Out Tube	Shaft	O-Ring	Bushing	Coupling	Impeller	Weight
TBSS	SS304/SS316	SS304/SS316	VITON	PTFE	Nylon	PVDF	2.5kg
TBPH	PP	HC276	VITON	PTFE	Nylon	PVDF	1.8kg
TBVH	PVDF	HC276	VITON	PTFE	Nylon	PVDF	1.8kg

Motor parameters

Model	Type	Power (W)	Voltage (V)	Air consumption m³/h	Rotate speed (rpm)	Application area
TM800V	Speed motor	800	220	--	0-10000	Non-EX area
BM800V	EX motor	800	220	--	10000	EX area
AM640	Air motor	640	--	56.5	0-16000r	EX area

Performance Curve



TM800V



BM800V

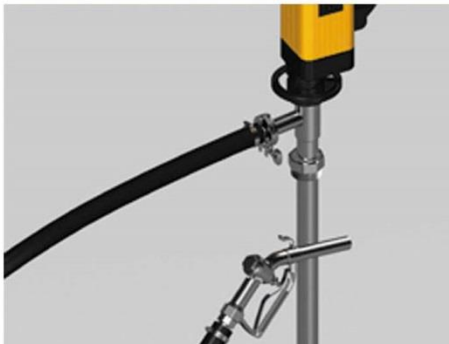


AM640

Kindly be noted:

- Above data are based on 25°C water as test media.
- Flow and head are affected by viscosity, density of liquid and motor rotate speed

HV SERIES MEDIUM VISCOSITY DRUM PUMP



Features:

The HV series medium viscosity drum pump is a new product designed for 0-5000 cps viscosity media. Its design continues to be portable, easy to operate, modular, and outlet hose easy to remove, etc. After long-term site follow-up and customer feedback, this pump is ideal for the transfer of glycerin, lubricating oil and other kinds of medium viscosity media. This pump is durable, safe and reliable.

Technical data:

- Flow rate: 0-180
- Delivery head: 0-7
- Max. temperature: 90℃
- Viscosity: 0-5000
- Max. gravity: 1.8
- Pump OD: 46mm
- Outlet OD: 32mm
- Drive: Electric motor
- Pump length: 1000mm
- Voltage: 220V
- Power: 2KW
- Application: No explosion-proof area



Pump Material

Model	Out Tube	Shaft	Sliding bearing	Coupling	Impeller	Weight
HVSS	SS304	SS304	PTFE	Nylon	PVDF	2.5kg

HT SERIES HIGH VISCOSITY DRUM PUMP



Features:

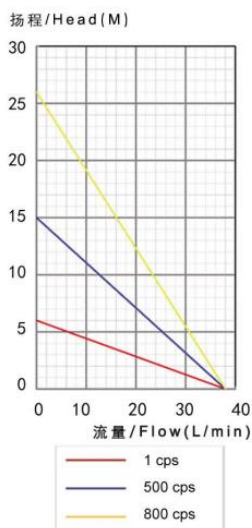
- The HT series is designed for high viscosity liquids and conveys media range include: glues, paints, emulsions, various resins, polymers and other materials.
- It conveys liquids of different viscosities with different motors, in the range 0-3000 cps.
- The HT series pump tubes are of sanitary construction and easy to clean.
- Mechanical seal - Reliable seal, no leakage in a long period of use. No dead angle to clean, prevent miscellaneous bacteria pollution.

Technical Data

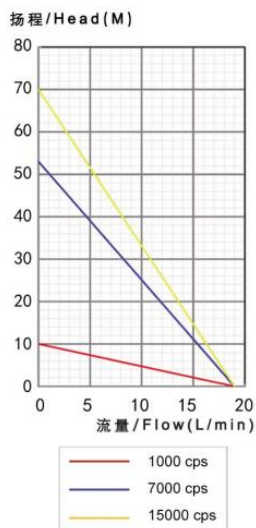
Model	HTSS	HTSS-A
Max. flow rate	38 l/m	64l/m
Max. head	70 m	120m
Max. temp	90℃	90℃
Viscosity	0-15000cps	0-30000cps
Max. gravity	1.8	1.8
Pump material	SS304/316	SS304/316
Seal	Mechanical seal	Mechanical seal
Rotor		SS304/316
Stator		Teflon/Viton
Impeller	Auger type	Single screw
Drive	Electric/air motor	Electric/air motor

Performance curve

HT Series



电机/motor: PM750 & BM750
粘度/viscosity: 1-800 CPS



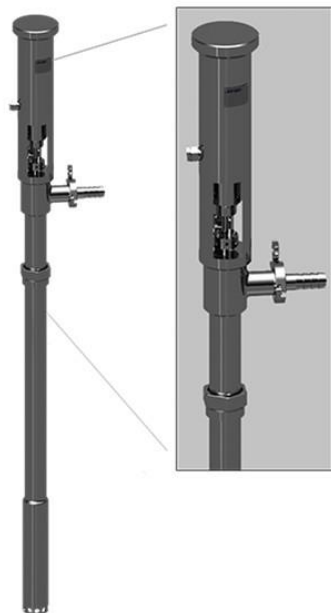
电机/motor: PM1500 & BM1500
粘度/viscosity: 800-7000CPS

电机/motor: PM2200 & BM2200
粘度/viscosity: 7000-15000CPS

Note:

- The performance of the pump tube varies with different motors, check the production parameters while choosing a motor.
- The actual speed of the pneumatic motor is influenced by the pressure of the air source, which in turn affects the flow and head.
- Use air motors or explosion-proof motors with stainless steel tubes in explosion-proof areas and install potential grounding wires to prevent explosions caused by electrostatic sparks.
- The adapter can be matched with IEC single-phase or three-phase, normal or explosion-proof motors, Y or YB series B14 flange-mounted motors, or with pneumatic motors with standard connections.

ZS SERIES PNEUMATIC PISTON PUMP



Features:

- ZS series pneumatic piston pump takes the advantage of air pressure difference effect, the piston moves up and down, driving the ball at the bottom of the pump pipe to open and close, playing the role of material delivery.
- The feed flow of the pneumatic piston pump is controlled and regulated by adjusting the air flow and air pressure, combined with an automatic level control system to make it work automatically.
- With functions like explosion-proof and corrosion-resistant sedimentation, low noise and energy saving, it is the ideal equipment for conveying high viscosity media in barrels.

Applications:

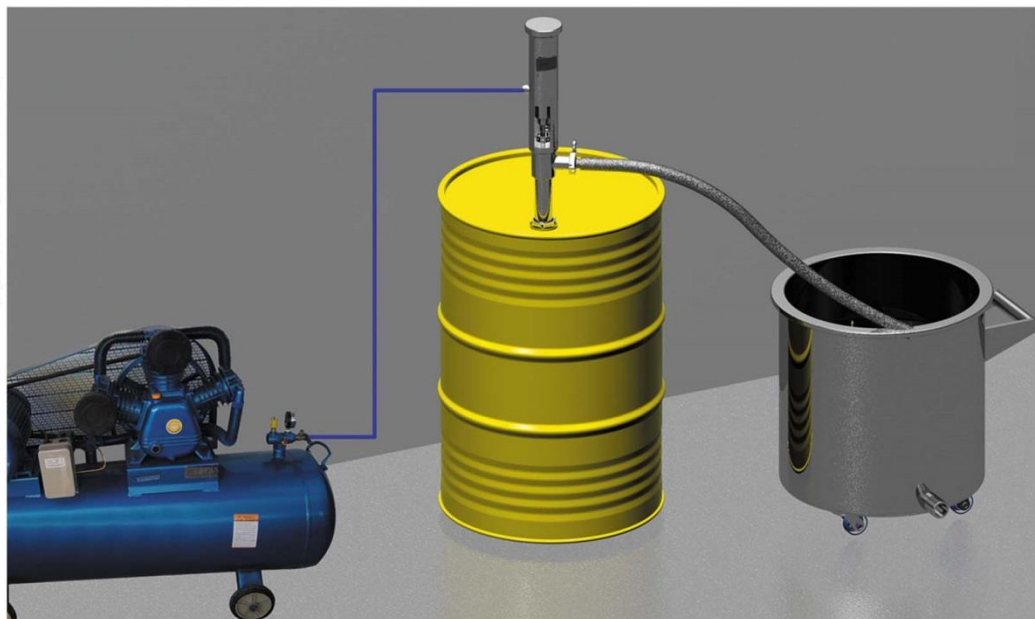
- Widely used in leather, textile, printing and dyeing, plastic, wallpaper, color coated board, cosmetics, food, medical, chemical, spray painting, film aluminizing, fiberglass, plastic steel, petroleum, mining, ship, automobile, communication, electrical refrigeration and other industries, suitable for high viscosity 120,000 cps liquid conveying.

Technical data

Model	Flow rate (L/M)	Head (M)	Viscosity (CP)	Allowed particle OD(mm)	Temp (°C)	Inlet/Outlet OD (mm)	Air pressure (Mpa)	N.W (kgs)
ZS1.2T-55	30	30	120000	0.8	120	55/32	0.3-1.0	16
ZS3.2T-55	50	30	120000	1.2	120	55/32	0.3-1.0	19
ZS5.0T-88	100	30	120000	0.8	120	88/50	0.3-1.0	37



High viscosity liquid



DRUM PUMP METERING CONTROL SYSTEM

Features:

- It is mainly used for dosing, oil blending, water blending, drug blending and quantitative control of various liquids, with simple operation, intuitive display in English and can be combined with manual or automatic control.
- Currently many companies use the original method of manual filling and pouring, which is labor-intensive and inefficient. This system is recommended for companies who want to improve their work efficiency without investing too much money.

System Module:

- Transfer modules: PT, TB, HT series drum pumps or other pumps
- Flow control modules: flow sensors, indicators
- Actuation control modules: solenoid valves, level switches, remote switches
- Alarm module: alarm (sound, light) for specific conditions

Control process:

Once the quantitative controller receives the signal from the flow sensor, the controller outputs a switching signal when the total value displayed reaches the set quantitative value, which automatically stops and closes the electromagnetic closure, thus achieving the effect of quantitative control.

Pre-set
flow rate to
stop the
pump
(quantitative
control)

Outlet
level
control to
start /stop
the pump.

Remote
pump on /
off

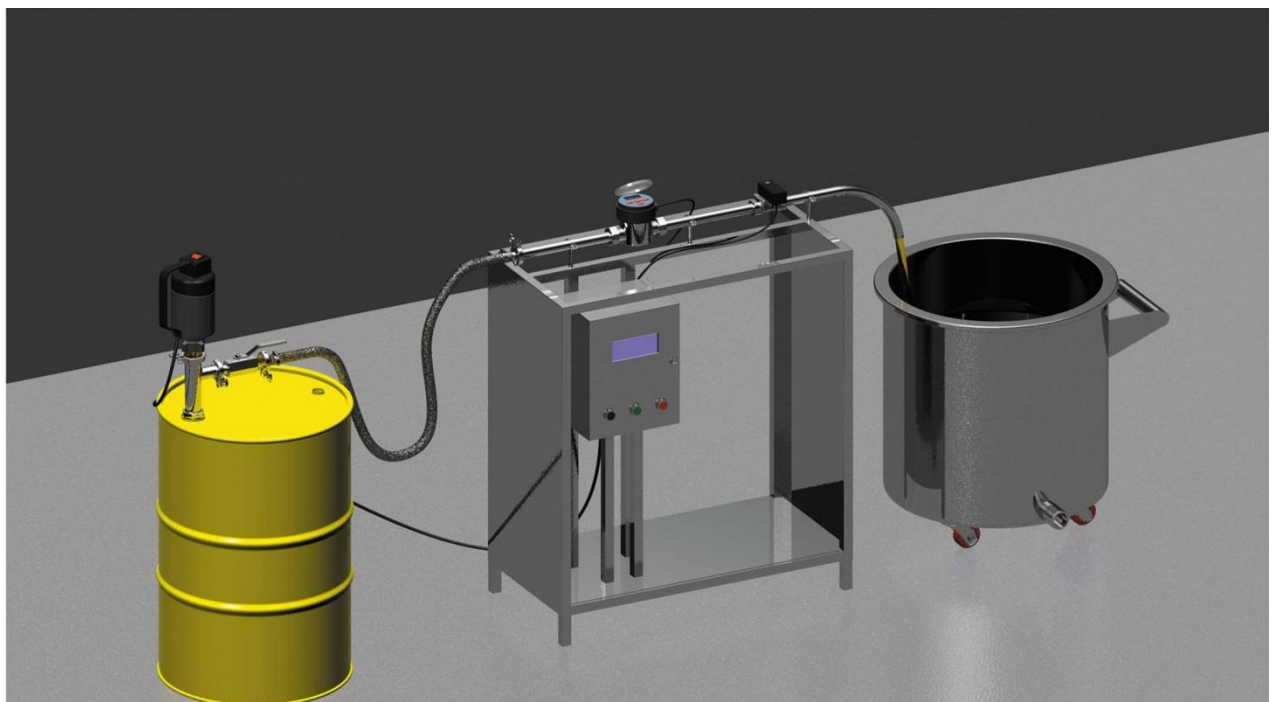
Inlet level
control to
start / stop
the pump

Real time
flow rate
and
cumulative
flow rate
display on
site

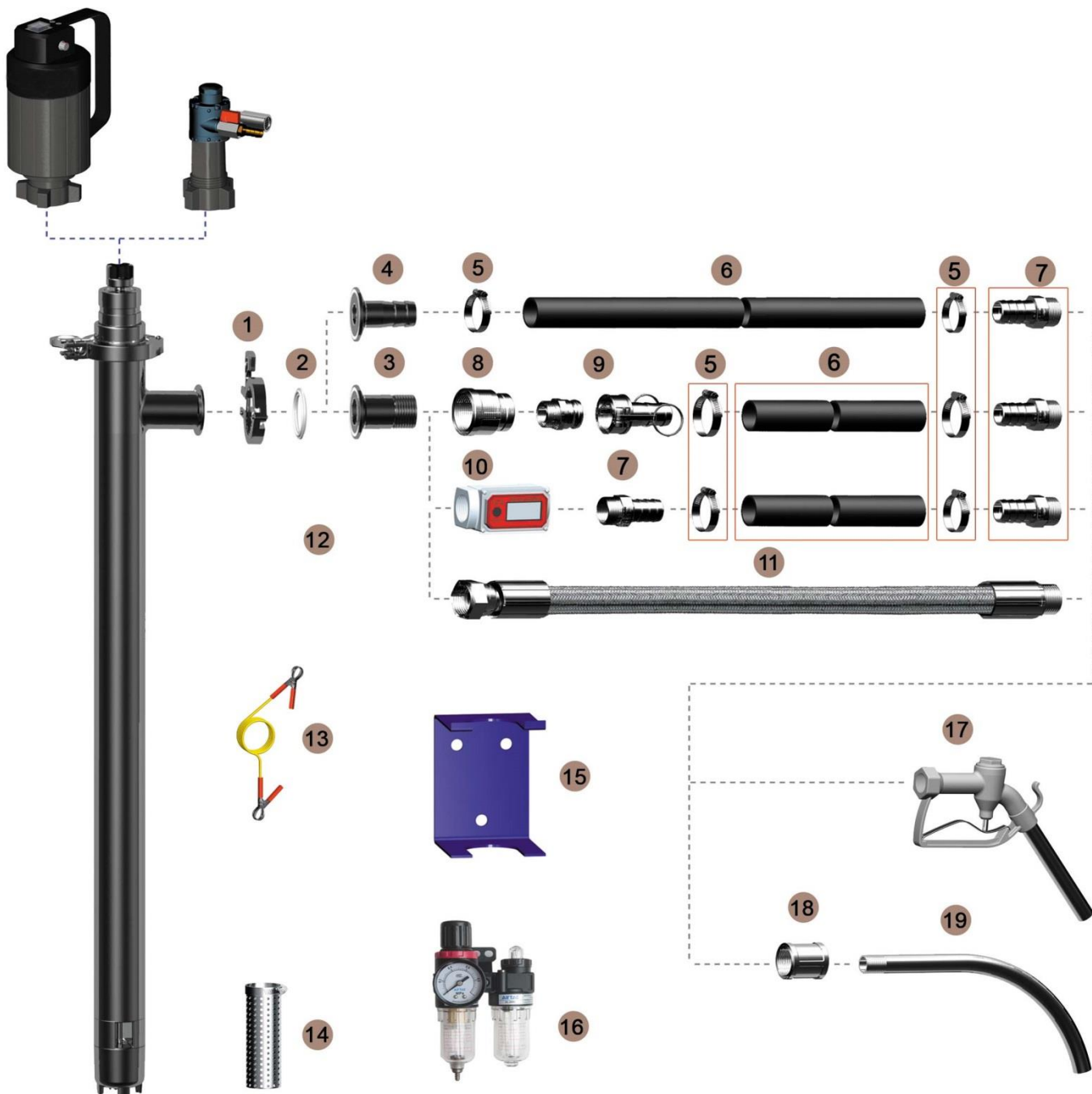
Alarm:
sound or
visual
alarm
alerts

Prevent
dry
running
and pump
stop when
pump is
empty.

Timed
pump start
and stop



DRUM PUMP ACCESSORIES



- | | | | |
|-----------------------------|--------------------------------|-------------------------------|--------------------|
| 1. Quick clamp | 6. Hose | 11. Hose with live joint | 16. Air filter |
| 2. Teflon gasket | 7. Threaded hose connector | 12. Pump fixator | 17. Dosing gun |
| 3. Threaded quick connector | 8. Reducer union | 13. Equipotential ground wire | 18. Adaptor joints |
| 4. Hose quick connector | 9. Quick combination connector | 14. Strainer | 19. Drain pipe |
| 5. Hose clamp | 10. Flowmeter | 15. Wall mounting | |



A new generation of high-quality Centrifugal immersion pumps

Centrifugal immersion pumps



- Light weight
- small power

- Small volume
- Self-lubricating

- Easy to carry
- Easy to maintain

HPS SERIES CENTRIFUGAL IMMERSION PUMPS

Features:



- Single tube design with compact dimension and light weight.
- Various of pump materials: SS316L, engineer plastic PPHT, high corrosion resistant fluoroplastics PVDF, applicable for various of different working conditions.
- Thanks to its light weight, this pump can be installed not only in fixed site, but also as a mobile pump in multiple locations. It is easy to maintain.
- Built-in copper sleeved sliding bearing and self lubricating system eliminates rely of sliding bearing on external lubricants. Lighter abrasion avoids replacement of sliding bearing during pump's life cycle.
- High efficiency of energy saving and application of three dimensional impeller makes the submerged pump gain bigger flow rate from smaller power.
- The pump responds quickly and can be powered up to dispense liquid.
- External float switches or liquid level control cabinets can be connected to automatically control the start and stop of the pump; a pump protector can also be used to prevent the impact of idling, blocking and overloading on the pump.
- Various outlet connections, i.e. plug-in hose connection, threaded or flanged hard pipe connection.
- Various sizes of submerged depth, 1.0m, 1.5m, 2.0m, 2.5m, non-standard customization is acceptable.

Technical of centrifugal immersion pumps

Model item	Flow Rate	Head	Immersion Depth	Power	Voltage	Pump Material	Outlet Dia	Max. Dia of pump line	Viscosity
	(Ton/Hr)	(M)	(M)	(KW)	(V)		(MM)	(MM)	(CPS)
HPS-15-10-SS-1000	15	10	1.0	1.1	220/380	SS316	φ38	140	1-2500
HPS-15-10-SS-1015	15	10	1.5	1.1	220/380	SS316	φ38	140	1-2500
HPS-15-10-SS-2000	15	10	2.0	1.1	220/380	SS316	φ38	140	1-2500
HPS-15-10-SS-2500	15	10	2.5	1.1	220/380	SS316	φ38	140	1-2500
HPS-30-11-SS-1000	30	11	1.0	1.5	220/380	SS316	φ45	140	1-2500
HPS-30-11-SS-1500	30	11	1.5	1.5	220/380	SS316	φ45	140	1-2500
HPS-30-11-SS-2000	30	11	2.0	1.5	220/380	SS316	φ45	140	1-2500
HPS-30-11-SS-2500	30	11	2.5	1.5	220/380	SS316	φ45	140	1-2500
HPS-40-12-SS-1000	40	12	1.0	2.2	380	SS316	φ50	149	1-2000
HPS-40-12-SS-1500	40	12	1.5	2.2	380	SS316	φ50	149	1-2000
HPS-40-12-SS-2000	40	12	2.0	2.2	380	SS316	φ50	149	1-2000
HPS-40-12-SS-2500	40	12	2.5	2.2	380	SS316	φ50	149	1-2000
HPS-50-14-SS-1000	50	14	1.0	3	380	SS316	φ50	149	1-1200
HPS-50-14-SS-1500	50	14	1.5	3	380	SS316	φ50	149	1-1200
HPS-50-14-SS-2000	50	14	2.0	3	380	SS316	φ50	149	1-1200
HPS-50-14-SS-2500	50	14	2.5	3	380	SS316	φ50	149	1-1200

HPT SERIES CENTRIFUGAL IMMERSION PUMPS



HPT

Applications:

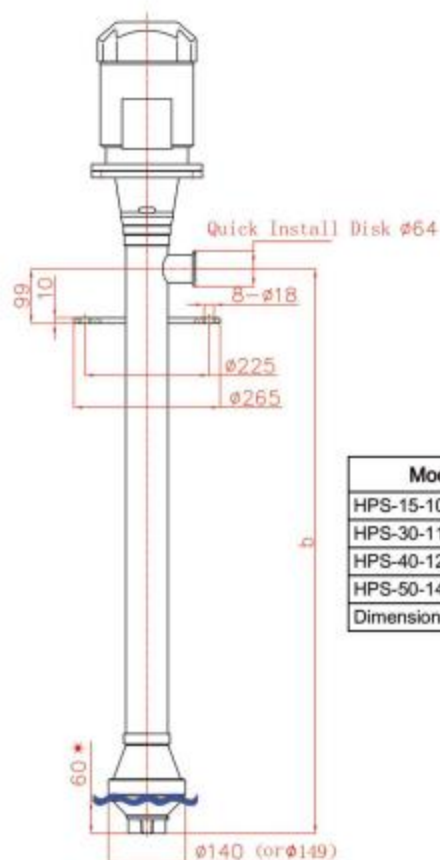
- **Pharmaceutical plants:** E.g. strong oxidant liquids, leaching liquids. The motor is usually above the liquid level, and pump body below the liquid level,. The pump body is mostly made of engineering plastics or fluoroplastics.
- **Desalination manufacturing plant:** Seawater is erosive, if use submersible pumps or submersible sewage pumps, their cable lines are soaked under the liquid constantly, will also gradually corrode by diazotization reaction, and the safety performance becomes not high. With submersible pumps, the difficulty of having the motor and cable under the liquid is avoided.
- **Urban sewage treatment plant discharge systems:** Sewage discharge from underground, basement, human defense system drainage stations, hospitals, hotels, high-rise buildings.
- **Plating and pickling industry:** Circulation and transport of plating pickling solution, tank cleaning of plating tanks.
- **Water treatment and environmental protection industry:** All kinds of sewage with impurities can be transported.
- **Rare earth non-ferrous metal wet smelting industry:** Especially suitable for the transport of various acids, alkalis, corrosive slurries, electrolytes, waste acids, sewage from the wet smelting processing of lead, zinc, gold, silver, copper, manganese, cobalt, rare earth and other wet smelting.
- **Pesticides, dyestuffs, fine chemical industry:** Can transport clear liquids containing dilute acids, alkaline liquids, mixed acids.
- **Sulphuric acid and phosphate fertilizer industry:** transport of dilute acid, mother liquor, fluorosilicic acid with silica gel, phosphoric acid slurry and other media.

Technical of centrifugal immersion pumps

Model item	Flow Rate	Head	Immersion Depth	Power	Voltage	Pump Material	Outlet Dia	Max. Dia of pump line	Viscosity
	(Ton/Hr)	(M)	(M)	(KW)	(V)		(MM)	(MM)	(CPS)
HPT-15-10-SS-1000	15	10	1.0	1.1	220/380	PP	φ38	145	1-2500
HPT-15-10-SS-1015	15	10	1.5	1.1	220/380	PP	φ38	145	1-2500
HPT-15-10-SS-2000	15	10	2.0	1.1	220/380	PP	φ38	145	1-2500
HPT-15-10-SS-2500	15	10	2.5	1.1	220/380	PP	φ38	145	1-2500
HPT-30-11-SS-1000	30	11	1.0	1.5	220/380	PP	φ45	145	1-2500
HPT-30-11-SS-1500	30	11	1.5	1.5	220/380	PP	φ45	145	1-2500
HPT-30-11-SS-2000	30	11	2.0	1.5	220/380	PP	φ45	145	1-2500
HPT-30-11-SS-2500	30	11	2.5	1.5	220/380	PP	φ45	145	1-2500
HPT-40-12-SS-1000	40	12	1.0	2.2	380	PP	φ50	160	1-2000
HPT-40-12-SS-1500	40	12	1.5	2.2	380	PP	φ50	160	1-2000
HPT-40-12-SS-2000	40	12	2.0	2.2	380	PP	φ50	160	1-2000
HPT-40-12-SS-2500	40	12	2.5	2.2	380	PP	φ50	160	1-2000
HPT-50-14-SS-1000	50	14	1.0	3	380	PP	φ50	160	1-1200
HPT-50-14-SS-1500	50	14	1.5	3	380	PP	φ50	160	1-1200
HPT-50-14-SS-2000	50	14	2.0	3	380	PP	φ50	160	1-1200
HPT-50-14-SS-2500	50	14	2.5	3	380	PP	φ50	160	1-1200

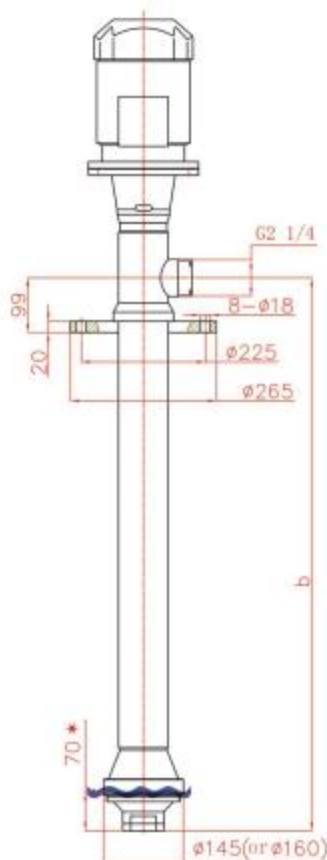


Dimensional Drawing and Performance Curve



HPS

Model	b (mm)
HPS-15-10-SS-1000	1014
HPS-30-11-SS-1000	1025
HPS-40-12-SS-1000	1031
HPS-50-14-SS-1000	1039
Dimensions can be customized	



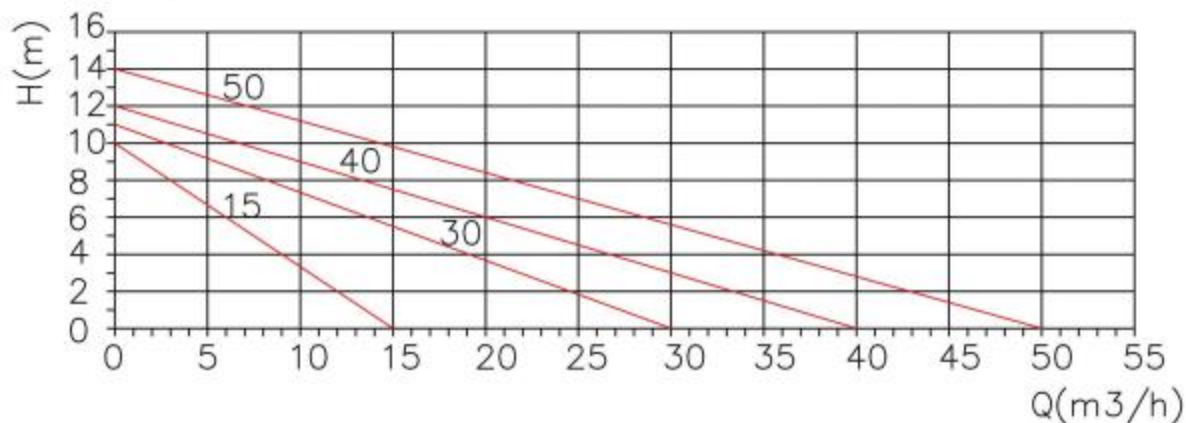
HPT

Model	b (mm)
HPT-15-10-PP-1000	1004
HPT-30-11-PP-1000	1008
HPT-40-12-PP-1000	1006
HPT-50-14-PP-1000	1010
Dimensions can be customized	



Minimum level baseline : Do not run below minimum level

Performance Curve





Accessories & Application Example



Lifting bracket



Outlet hose connections



Outlet flange connection



Mounting flange

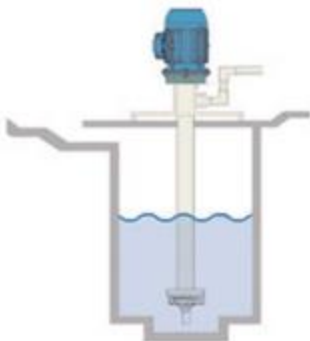


Connecting cable

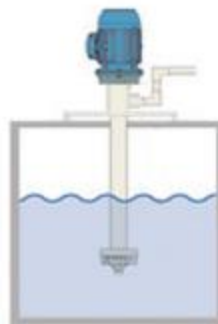


Foot filter

Application Example

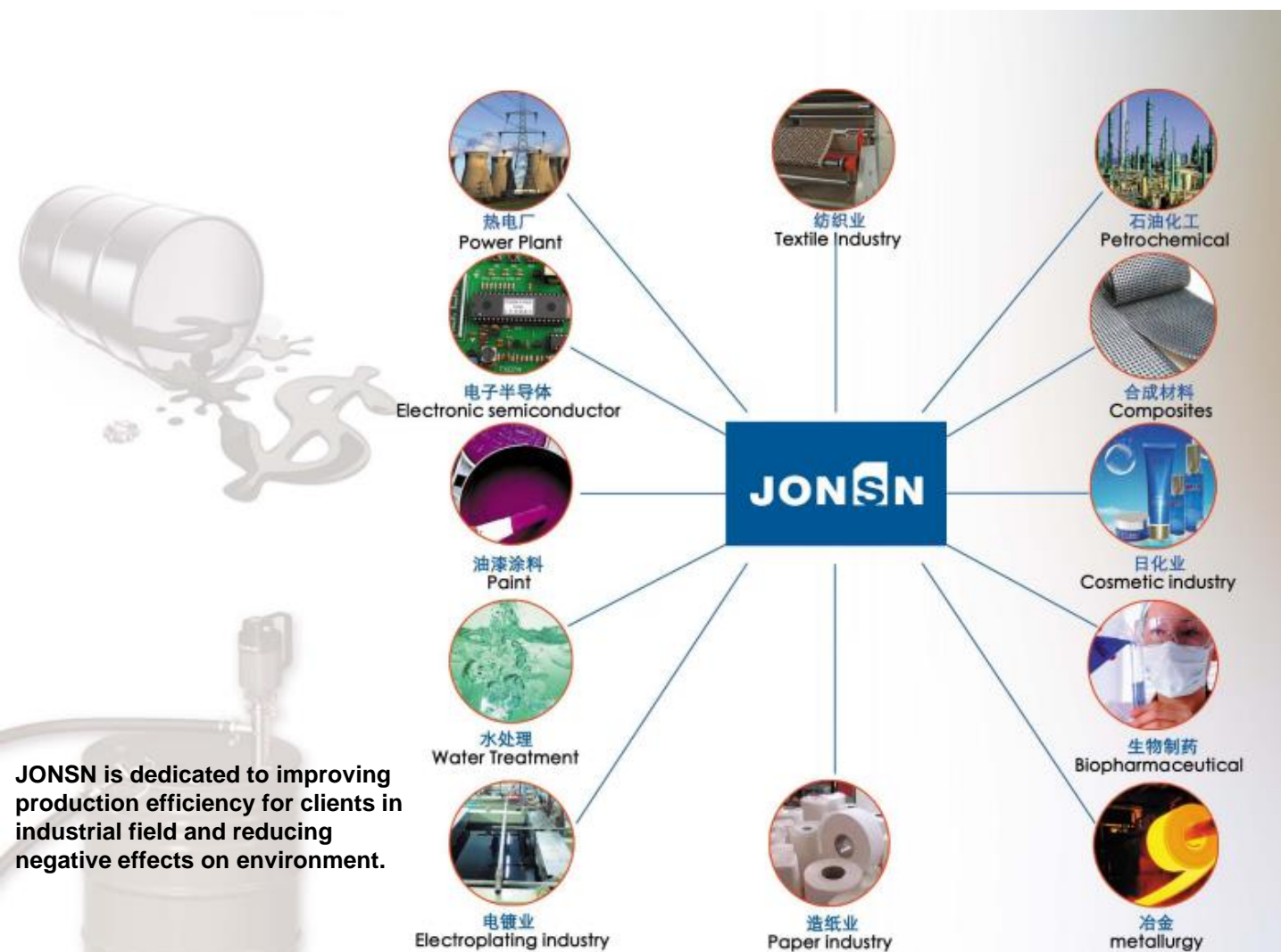


Sump discharge



Media tank discharge

APPLICATION FIELD



Power plant	Ammonia, scale inhibitor	Petrochemical	Crude oil, acids, alkalis, organic solvents
Electronic semiconduct or	Solvents, electroplating solutions, cleaning solutions, corrosive acids	Composites	Organic solvents, ammonia, flame retardants, catalysts
Paint	Resin, solvent, colorant, acrylic	Cosmetic industry	Detergents, shampoos, lotions, surfactants
Water Treatment	Pharmaceuticals, waste water, sodium hypochlorite	Biopharmaceutical	Solvents, acid, alkali
Electroplating industry	Strong acids and alkaline liquids, waste water	Metallurgy	Surface pickling, cleaning agents
Textile industry	Dye chemicals, resins, hydroxides, rubber emulsions	Machinery manufacturing	Lubricants, hydraulic fluids, diesel, gasoline, cutting fluids, rust inhibitors
Paper industry	Paints, inks, hydrogen peroxide, strong corrosive acids		



- **China (International Trade)**

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