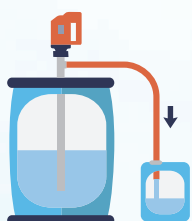
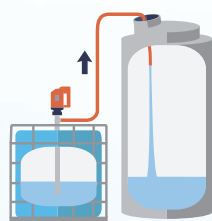


DRUM PUMPS

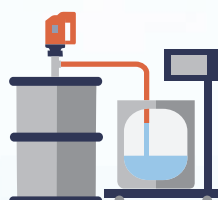
for Transferring and Dividing Liquid



Splitting easily
into smaller



Transferring
quickly



Measuring amount
easily



For transferring flammable
or corrosive liquid



Certification of
Explosion Proof

KEMPION DRUM PUMPS

Features

- Removing unstable elements of pump performance with sealless structure.
- Preventing motor damage by installing of dual safety device in the motor.
- Easy operation and simple part replacement.
- The material of motor casing with strong chemical resistance and shock resistance.
- Transfer flammable liquid by using ex. proof motor or air motor.
- Transfer various raw materials and chemicals.

Applications

- To transfer from plating facility, chemical plant or chemical warehouse or to decant into small units
- To transfer or refill chemicals in metal factory or waste processing facilities.
- To refill chemicals in research centers or hospitals.
- To transfer cosmetics and food raw material or split into smaller
- To transfer dangerous or flammable liquid in explosion proof process and oil company.

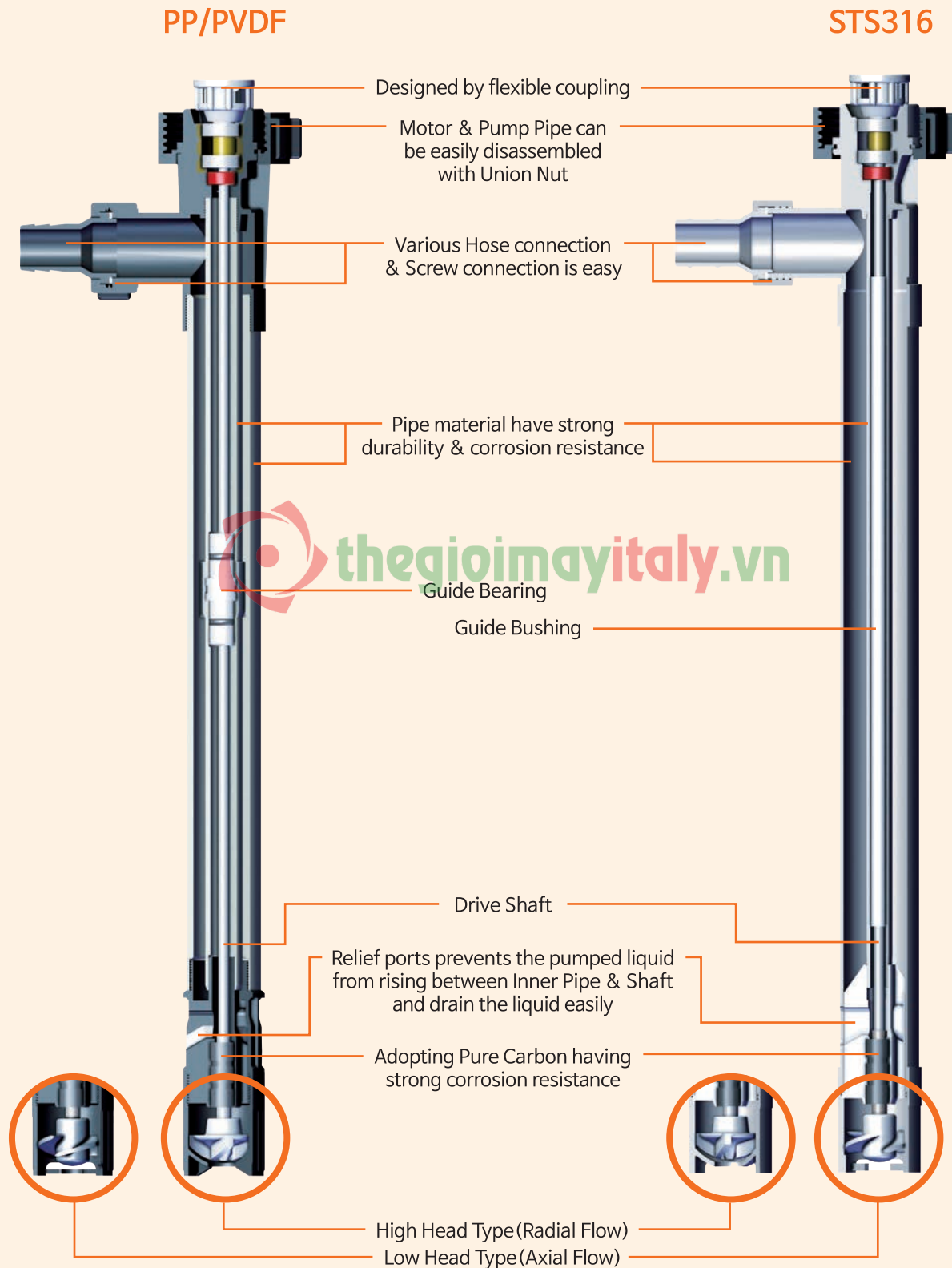


Before



After

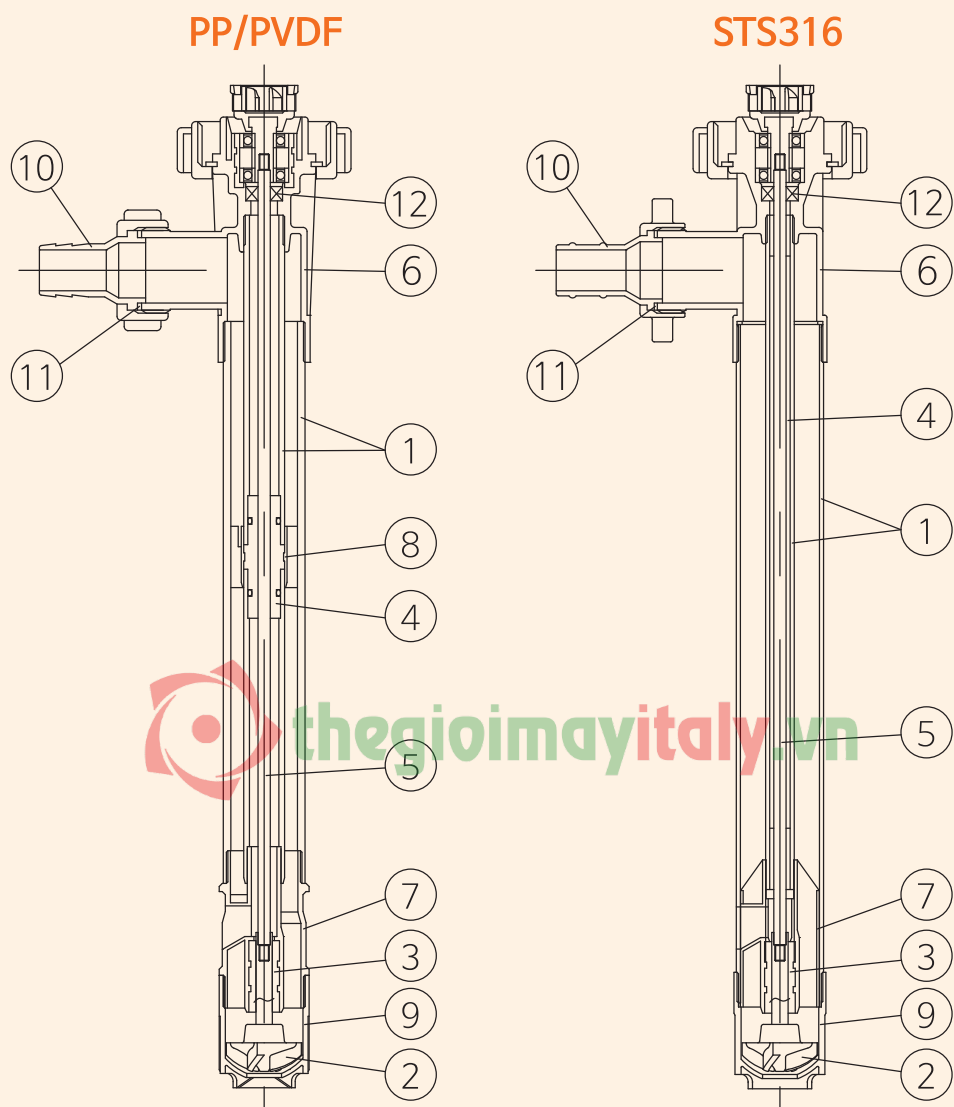
Drum Pump Pipes (Sealless Structure)



Accurate Alignment & Part replacement is easy because all parts are fixed with solid screw

Robust design against indeliberate dry run for a short period (Max. 5 minutes)

Pipe Material



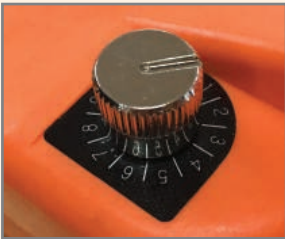
Specification

No.	Model	DR-P□H	DR-P□S	DR-P□T	DR-F□H	DR-F□T	DR-S□S
①	Pipe	PP			PVDF		STS316
②	Impeller	ETFE					
③	Bearing	CARBON				PTFE	CARBON
④	Guide Bearing (Bushing)	PTFE					
⑤	Drive Shaft	HASTELLOY	STS316	TITANIUM	HASTELLOY	TITANIUM	STS316
⑥	Discharge Housing	PP			PVDF		STS316
⑦	Bearing Housing	PP			PVDF		ETFE
⑧	Guide Ring	PP			PVDF		-
⑨	Foot	PP			PVDF		STS316
⑩	Hose connector	PP			PVDF		STS316
⑪	Packing	FKM			PTFE		
⑫	Oil Seal	FKM					



DRUM PUMP | Electric Motor

- Dual prevention of motor from damage caused by overload through installing Thermal Protection device(TP) and over-current breaker internally.
- By installing low voltage release device(Optional), preventing motor damage caused by low voltage.
- Dual wall type motor housing prevents damages from external impacts.
- 5m long power cable is equipped with plug as standard item.

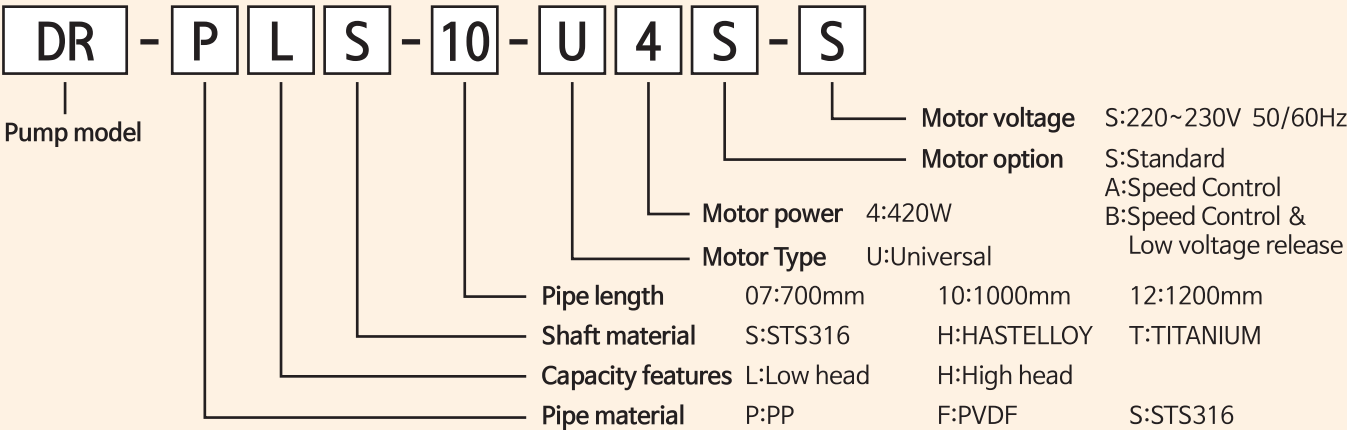


Speed Control Device (Optional)

Flow can be controlled easily with the motor speed (RPM) dial, so that stability can be improved in transferring corrosive liquid, and operating cost can be reduced as well by decreasing of motor power consumption with the low speed.

Specification			
Power	420~430W	RPM	10,000RPM
Voltage	220~230VAC	Protection grade	IP44
Frequency	50/60Hz	Insulation grade	B
Current	2.8A	Weight	3.0~3.1kg

Model Code



Detail



〈 PP 〉

Application

For transferring acid, alkali and neutral.

Examples

Chemicals, Cosmetics raw material, Plating solution, Lubricating oil & etc.

Specification

		DR-PH	DR-PL
Max. Flow rate (L/min)		80	130
Max. Head (m)		21	8
Max. Viscosity (mPas)		800	200
Max. Specific Gravity		1.6	1.3
Dia. of Insertion (mm)		44	44
Dia. for Hose Connection (mm)		25	25
Limit of liquid Temp (°C)		50	50
Weight (kg)	700mm	4.0	4.0
	1,000mm	4.2	4.2
	1,200mm	4.4	4.4



〈 PVDF 〉

Application

For transferring strong Corrosive chemicals.

Examples

Chemicals for acid washing, Strong corrosive chemicals, Toxic chemicals & etc.

Specification

		DR-FH	DR-FL
Max. Flow rate (L/min)		80	130
Max. Head (m)		21	8
Max. Viscosity (mPas)		800	200
Max. Specific Gravity		1.6	1.3
Dia. of Insertion (mm)		44	44
Dia. for Hose Connection (mm)		25	32
Limit of liquid Temp (°C)		80	80
Weight (kg)	700mm	4.2	4.2
	1,000mm	4.5	4.5
	1,200mm	4.7	4.7



〈 STS316 〉

Application

For transferring oils, alkali and neutral.

Examples

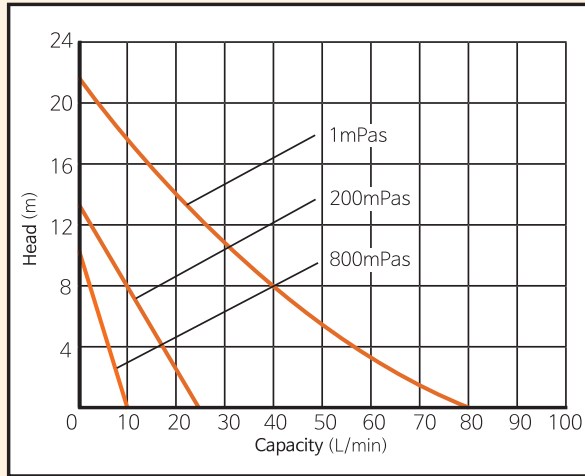
Cosmetics raw material, Chemicals raw material, Food additives raw material, Spice, Detergent, Water paint, Coating solution, Diesel & etc.

Specification

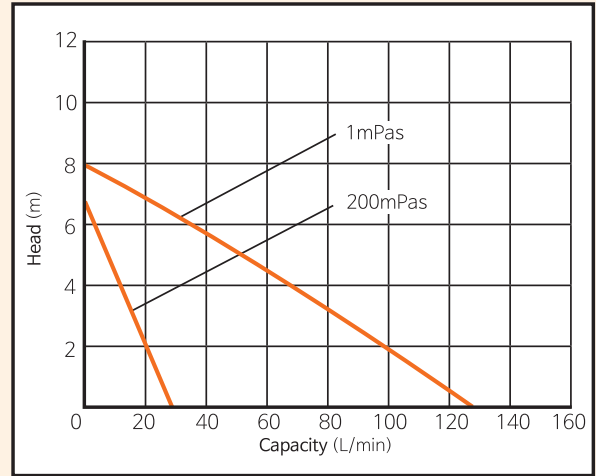
		DR-SH	DR-SL
Max. Flow rate (L/min)		90	160
Max. Head (m)		17	7.5
Max. Viscosity (mPas)		600	150
Max. Specific Gravity		1.6	1.3
Dia. of Insertion (mm)		45	45
Dia. for Hose Connection (mm)		25	25
Limit of liquid Temp (°C)		100	100
Weight (kg)	700mm	5.9	5.9
	1,000mm	6.6	6.6
	1,200mm	7.2	7.2

Performance Curves

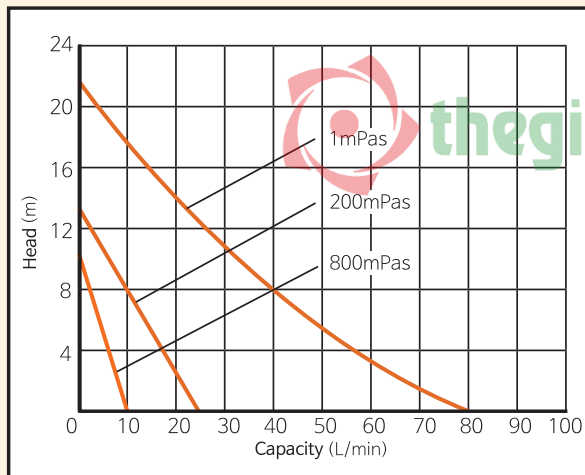
PH(High head)



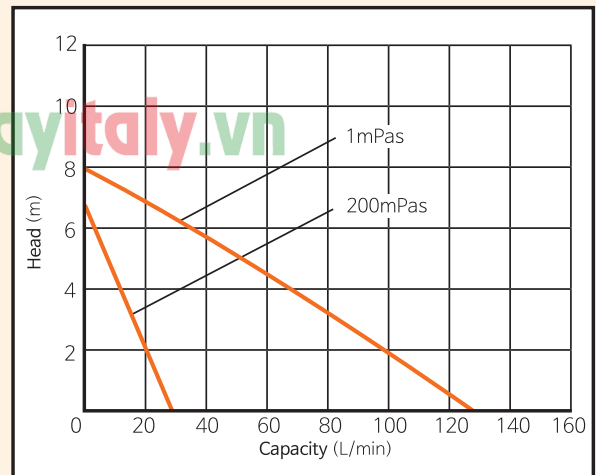
PL(Low head)



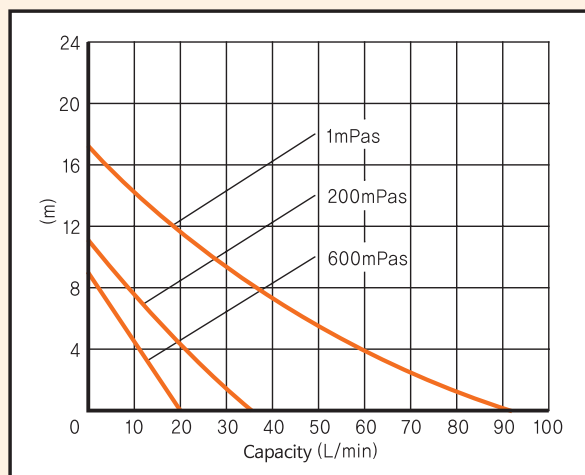
FH(High head)



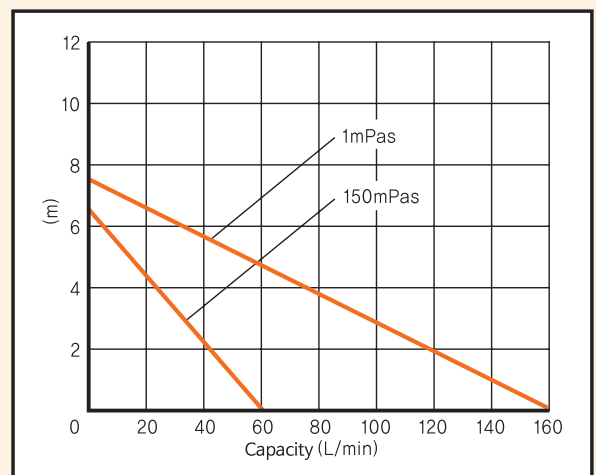
FL(Low head)



SH(High head)



SL(Low head)

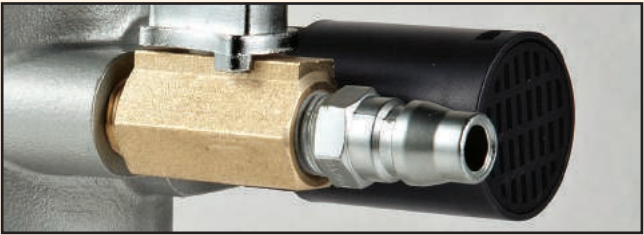


※ Performance curves can be somewhat different accordance with application of job site.



DRUM PUMP | Air Motor

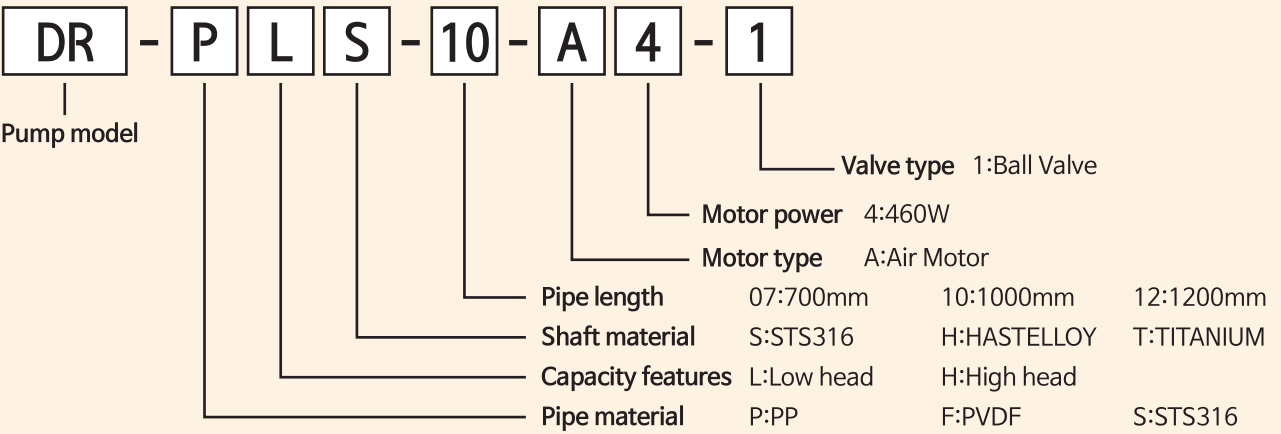
- Simple structure.
- Can be used for dangerous area of explosion (Ex II 2G).
- More light than electric motor.
- Easy speed control by supply pressure.
- Suction Dia. : Rc1/4, Discharge Dia. : Rc1/2



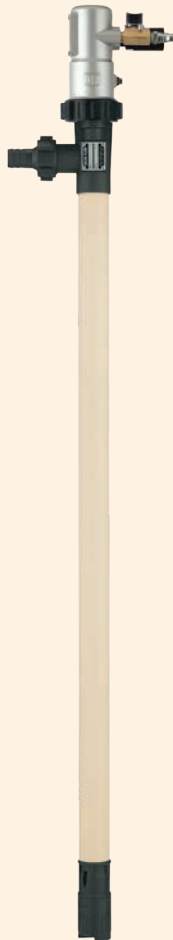
Specification			
Supply Pressure	3~6bar	Rated Output	460W
RPM	10,000RPM	Air Consumption	920L/min
Ex. proof	Ex II 2 G cp IIC T6	Weight	1.2kg

※ Certificate Number of Ex. Proof : 0425 ATEX 2535

Model Code



Detail



〈 PP 〉

Application

For transferring acid, alkali and neutral.

Examples

Chemicals, Cosmetics raw material, Plating solution, Lubricating oil & etc.

Specifiaction

		DR-PH	DR-PL
Max. Flow rate (L/min)		85	135
Max. Head (m)		22	8.5
Max. Viscosity (mPas)		1200	1000
Max. Specific Gravity		1.8	1.4
Dia. of Insertion (mm)		44	44
Dia. for Hose Conntection (mm)		25	25
Limit of liquid Temp (°C)		50	50
Weight (kg)	700mm	2.1	2.1
	1,000mm	2.3	2.3
	1,200mm	2.5	2.5



〈 PVDF 〉

Application

For transferring strong Corrosive liquid

Examples

Chemicals for washing acid, Strong corrosive chemicals, Toxic chemicals, flammable liquid & etc.

Specifiaction

		DR-FH	DR-FL
Max. Flow rate (L/min)		85	135
Max. Head (m)		22	8.5
Max. Viscosity (mPas)		1200	1000
Max. Specific Gravity		1.8	1.4
Dia. of Insertion (mm)		44	44
Dia. for Hose Conntection (mm)		25	32
Limit of liquid Temp (°C)		80	80
Weight (kg)	700mm	2.3	2.3
	1,000mm	2.6	2.6
	1,200mm	2.8	2.8



〈 STS316 〉

Application

For transferring flammable liquid

Examples

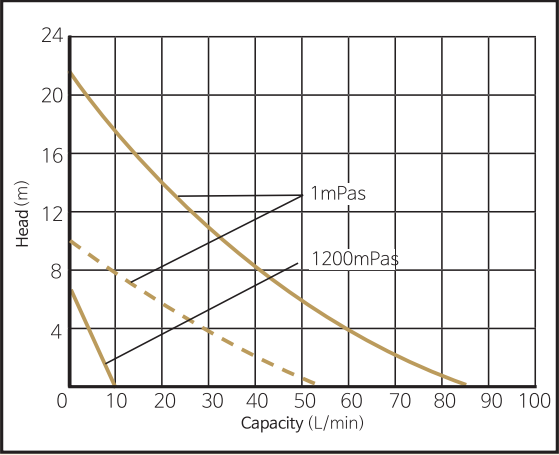
Coating solution, Ink, Flammable liquid (Alcohol, Thinner, Solvent, etc), Lubricating oil & etc.

Specifiaction

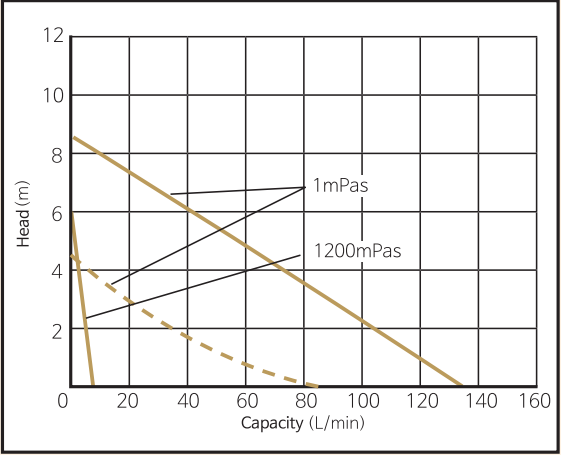
		DR-SH	DR-SL
Max. Flow rate (L/min)		95	165
Max. Head (m)		18	8
Max. Viscosity (mPas)		800	400
Max. Specific Gravity		1.8	1.4
Dia. of Insertion (mm)		45	45
Dia. for Hose Conntection (mm)		25	25
Limit of liquid Temp (°C)		100	100
Weight (kg)	700mm	4.0	4.0
	1,000mm	4.8	4.8
	1,200mm	5.3	5.3

Performance Curves

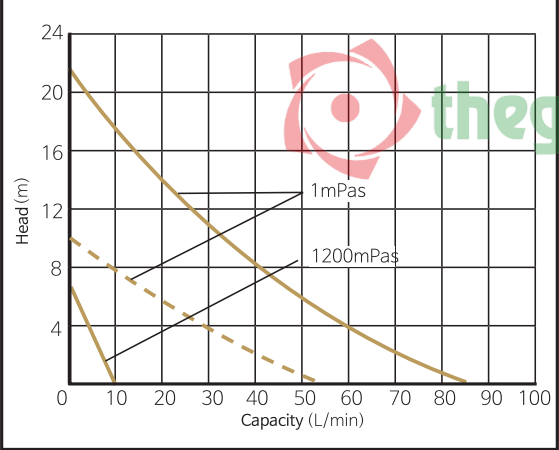
PH(High head) — 6bar - - - 3bar



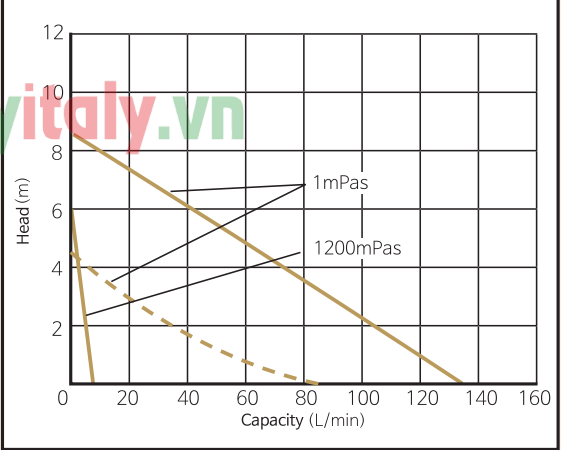
PL(Low head) — 6bar - - - 3bar



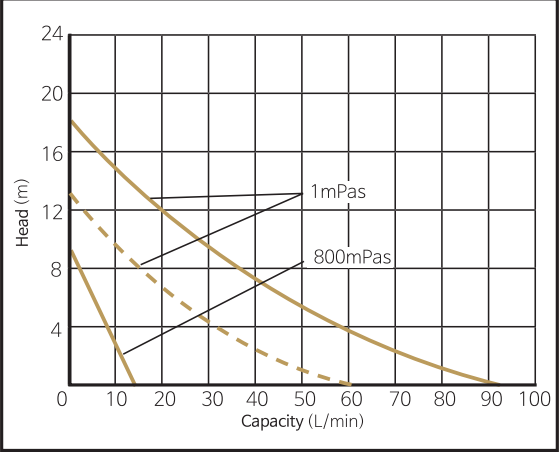
FH(High head) — 6bar - - - 3bar



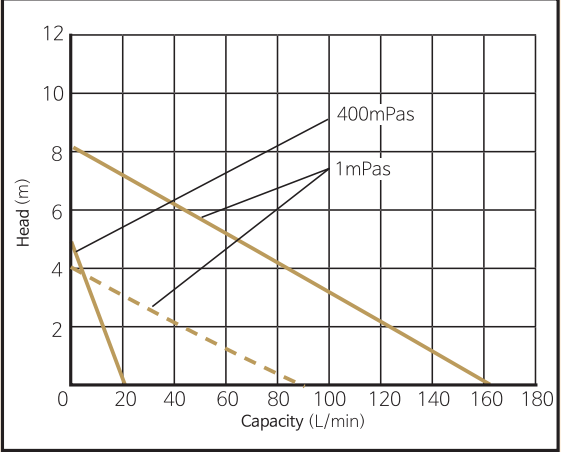
FL(Low head) — 6bar - - - 3bar



SH(High head) — 6bar - - - 3bar



SL(Low head) — 6bar - - - 3bar



※ Performance curves can be somewhat different accordance with application of jop site.

DRUM PUMP | Ex. Proof Motor

- Can be used for dangerous area of explosion (Ex de IIC T6).
- Dual prevention of motor from damage caused by overload through installing Thermal Protection device (TP) and over-current breaker internally.
- By installing low voltage release device (Optional), preventing motor damage caused by low voltage.
- Dual wall type motor housing prevents damages from external impacts.
- 5m long power cable is equipped with plug as standard item.



Specification

Power	420~430W	RPM	10,000RPM
Voltage	220~230VAC	Protection grade	IP54
Frequency	50/60Hz	Insulation grade	F
Ex. Proof Class	Ex de IIC T6	Weight	5.2kg

※ Certificate Number of Explosion Proof : 18-GA2BO-0494X
 ※ Power plug is not explosion proof.

Model Code

DR - S L S - 10 - E 4 S - S

Pump model

Motor voltage S:220~230V 50/60Hz

Motor option S:Standard

Motor power 4:420W

Motor type E:Explosion Proof Motor

Pipe length 07:700mm 10:1000mm 12:1200mm

Shaft material S:STS316

Capacity features L:Low head H:High head

Pipe material S:STS316

Detail

Application

For transferring flammable liquid

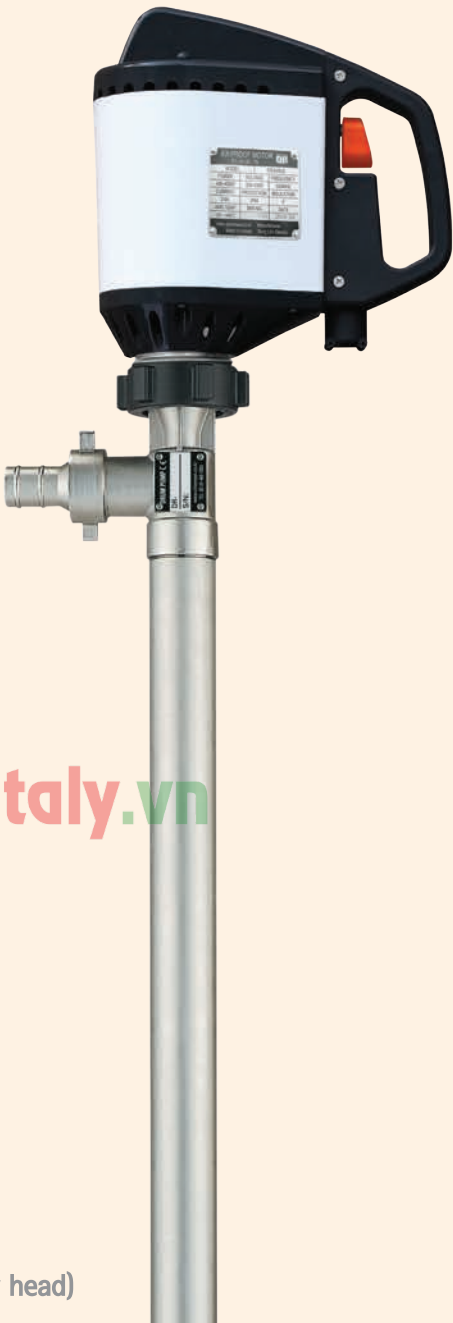
Examples

Coating solution, Ink, Flammable liquid (Alcohol, Thinner, Solvent, etc), Lubricating oil or dangerous liquid in explosion area, chemicals companies, military area & etc.

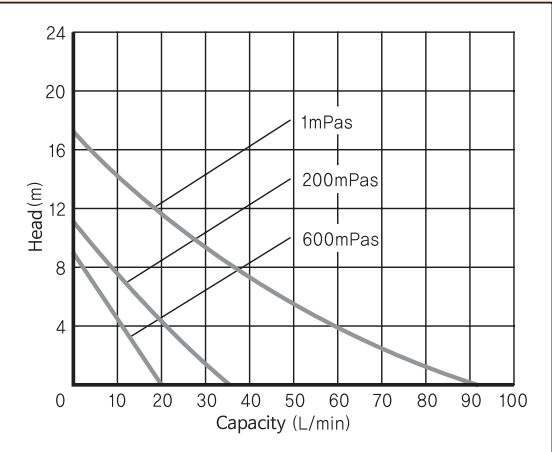
Specification (STS316)

		DR-SH	DR-SL
Max. Flow rate (L/min)		90	160
Max. Head (m)		17	7.5
Max. Viscosity (mPas)		600	150
Max. Specific Gravity		1.6	1.3
Dia. of Insertion (mm)		45	45
Dia. for Hose Connection (mm)		25	25
Limit of liquid Temp(°C)		100	100
Weight (kg)	700mm	8.1	8.1
	1,000mm	8.9	8.9
	1,200mm	9.4	9.4

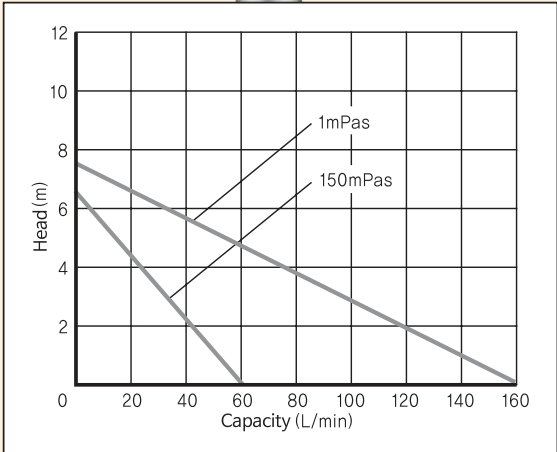
※ Only STS316 Pipe is available for Ex. Proof Motor type Drum Pump.



SH(High head)



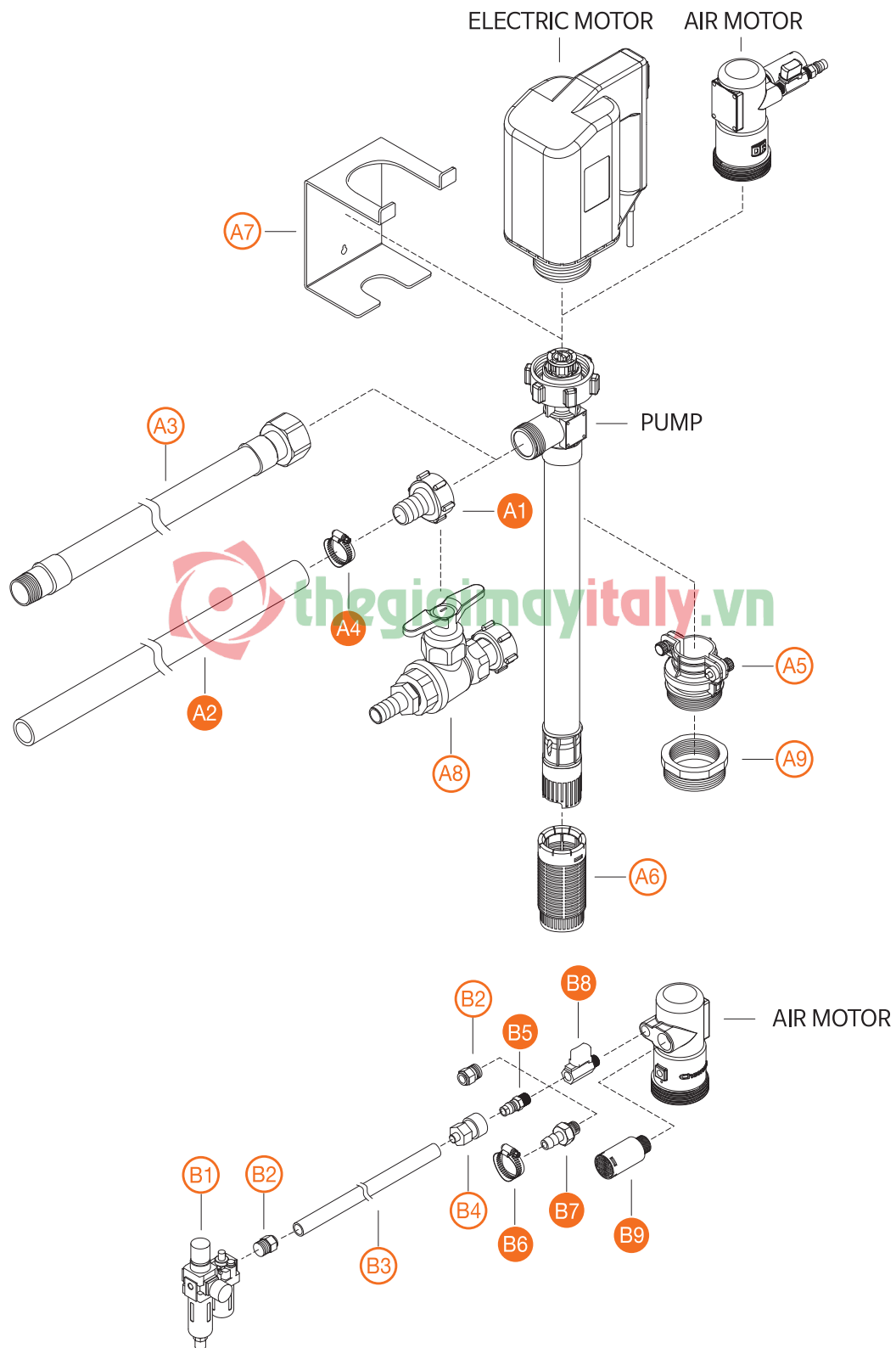
SL(Low head)



※ Performance curves can be somewhat different accordance with application of job site.

Accessories

● Standard ○ Optional



Accessories

● Standard ○ Optional

	PP PIPE	PVDF PIPE	SS316 PIPE
<div>A1</div> <div>Hose Connector</div> <div>Hose Connector, Union Nut(Pump), Packing Thread G1¼</div>			
<div>A2</div> <div>Hose(1.5m)</div> <div>PVC Spring Hose : 5bar 60℃ PTFE Flexible Hose :3bar 260℃</div>			
<div>A3</div> <div>Hose(1.5m)</div> <div>STS304 Flexible Hose : 15bar 300℃ Thread G1¼×R1</div>	—	—	
<div>A5</div> <div>Drum Adapter</div> <div>For fixing the pump pipe to the drum opening Thread G2</div>			
<div>A9</div> <div>Adapter Bushing</div> <div>Additionally installed on drum adapter and fixed to a Plastic Drum Thread BCS70×6</div>		—	—
<div>A6</div> <div>Strainer</div> <div>Mounted on the pump suction and keep impurities away from the rotating parts</div>			
<div>A8</div> <div>Ball Valve</div> <div>Open & Close discharge port Thread G1¼</div>			

Common Use

● Standard ○ Optional

A4 Hose Clamp

For fixing of the hose inserted into the hose connector
Size $\varnothing 19 \sim \varnothing 40$



A7 Wall Bracket

For safety storage of the pump



Air Motor Accessories

● Standard ○ Optional

B1 Air Unit

Filter, Regulator & Lubricator
Thread $Rc \frac{3}{8}$ Max. 10bar



B2 One Touch Fitting

Thread $R \frac{1}{4}$ or $R \frac{3}{8}$
Size $\varnothing 12$



B3 Air Hose

Polyurethane braided hose
 $\varnothing 12 \times \varnothing 8$ Max. 9bar



B4 Air Coupler (Socket)

Size $\varnothing 12 \sim \varnothing 8$



B5 Air Coupler (Plug)

Thread $R \frac{1}{4}$



B6 Hose Clamp

Size $\varnothing 6 \sim \varnothing 16$



B7 Hose Nipple

Thread $R \frac{1}{4}$
Hose Nozzle $\varnothing 8 \sim \varnothing 9$



B8 Ball Valve

Open & Close compressed air
Thread $R \frac{1}{4} \times Rc \frac{1}{4}$



B9 Muffler

Device for reducing the noise caused by releasing compressed air to atmosphere
Thread $R \frac{1}{2}$



