



CHEONSEI DRUM PUMPS

DRUM AND CONTAINER PUMPS



ELECTRIC MOTOR CE	
MODEL:	DR-U4
POWER:	480W
VOLTAGE:	220-230VAC
FREQUENCY:	50/60Hz
CURRENT:	2.4A
ENCLOSURE:	IP44
INS.CLASS:	B
SER.NO.:	
www.cheonsei.co.kr TEL: 82-31-485-1903	

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DRUM PUMP CE	
DR:	
S/N:	
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Cheonsei Drum and Container Pumps

Features

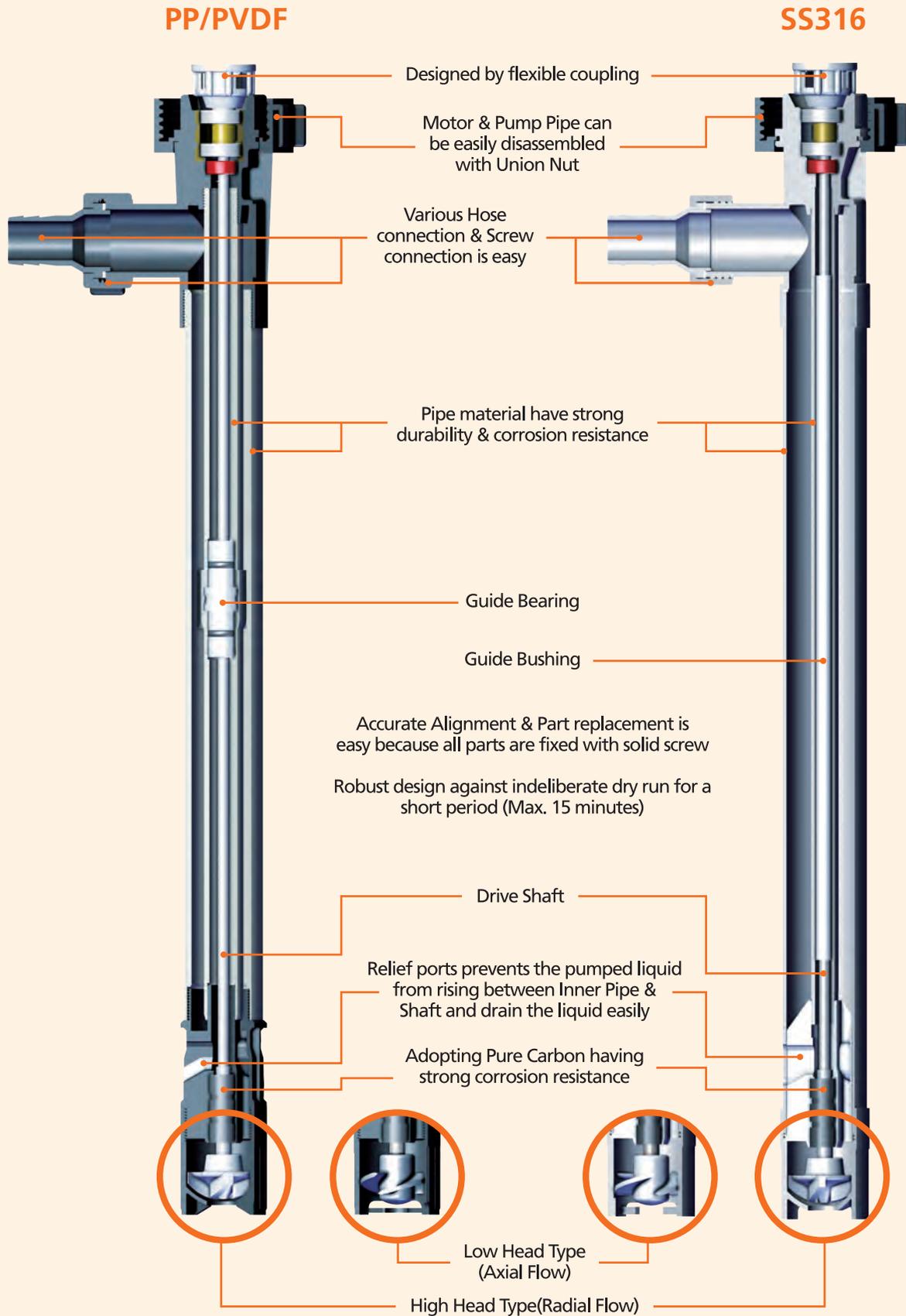
- Removing unstable elements of pump performance with sealless structure
- Maintenance cost can be reduced remarkably due to the robust design against the indeliberate dry run for a short period. (Max. 15 minutes)
- Preventing motor damage by installing of dual safety device in the motor
- Easy operation and simple part replacement

Applications

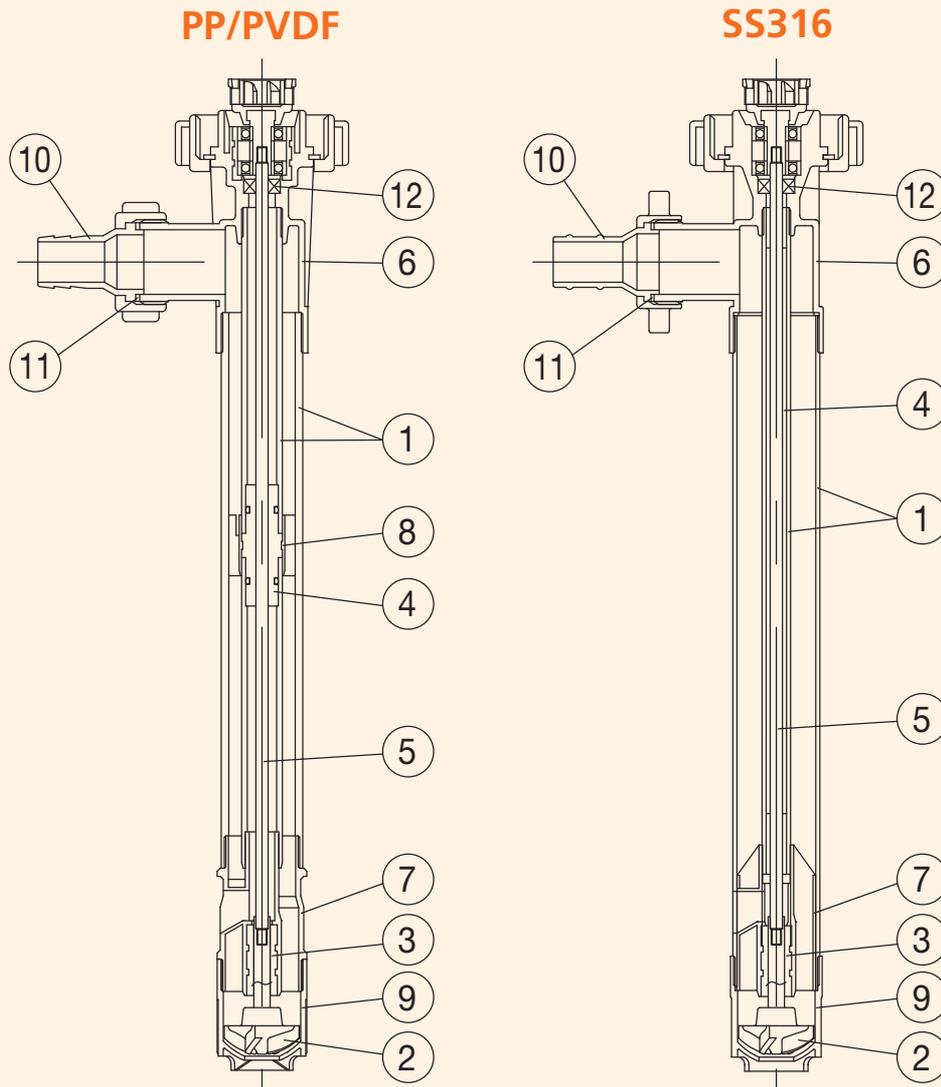
- To transfer from plating facility, chemical plant or chemical warehouse, or to decant into small units
- To transfer or refill chemicals in metal factory or waste processing facilities
- To refill chemicals in research centers or hospitals
- To transfer chemicals in power plants and public institutes
- To decant organic/inorganic chemicals and high viscosity chemicals into small units from drum, container or can



Drum Pump Pipe (Sealless Structure)



Drum Pump Pipe (Sealless Structure)



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		SS316	
②	Impeller	ETFE						
③	Bearing	CARBON				PTFE		CARBON
④	Guide Bearing (Bushing)	PTFE						
⑤	Drive Shaft	HASTELLOY	SS316	TITANIUM	HASTELLOY	TITANIUM	SS316	
⑥	Discharge Housing	PP			PVDF		SS316	
⑦	Bearing Housing	PP			PVDF		ETFE	
⑧	Guide Ring	PP			PVDF		-	
⑨	Foot	PP			PVDF		SS316	
⑩	Hose Connector	PP			PVDF		SS316	
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.



ELECTRIC MOTOR

MODEL	DR-U4
POWER	480W
VOLTAGE	220-230VAC
FREQUENCY	50/60Hz
CURRENT	2.4A
ENCLOSURE	IP44
INS CLASS	B
SER. NO.	

www.cheonsei.co.kr
TEL: 82-31-485-1003



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	480W	RPM	9,000RPM
Voltage	220~230VAC	Protection grade	IP44
Frequency	50/60Hz	Insulation grade	B
Current	2.4A	Weight	3.0~3.1kg

Model Code

DR - P L S - 10 - U 4 S - S

Pump model

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

Motor option S:Standard type
A:Speed control
B:Speed control & Low voltage release

Motor power 4:480W

Motor type U:Universal motor

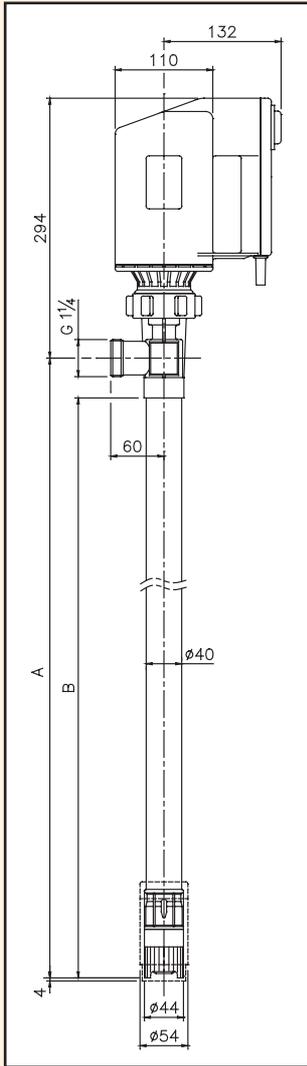
Pipe length 07:700mm 10:1000mm 12:1200mm

Shaft material S:SS316 H:HASTELLOY T:TITANIUM

Capacity features L:Low head H:High head

Pipe material P:PP F:PVDF S:SS316

Pump Pipe PP (Polypropylene)



Application

For transferring slight neutrality & liquid Acid, Alkali, Oil & etc.

Examples of liquids to be pumped

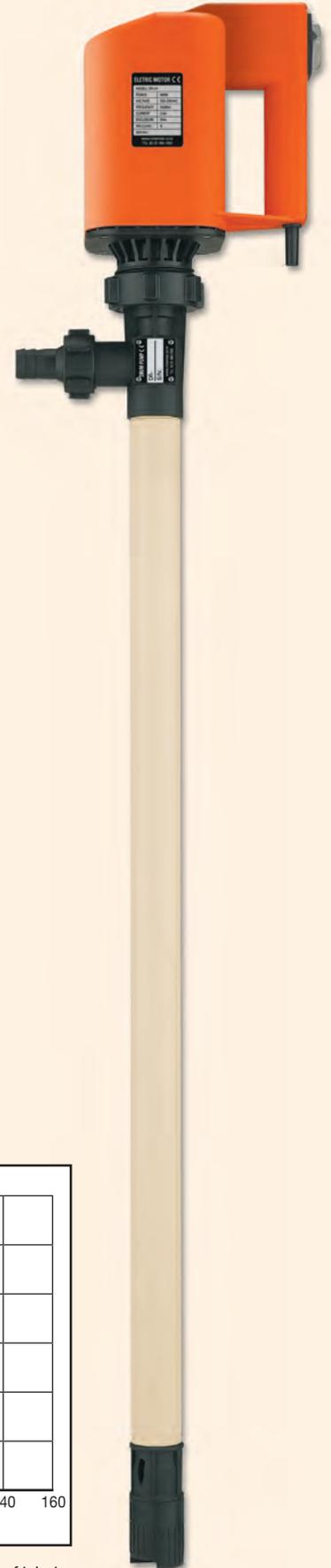
Sulphuric Acid, Acetic Acid, Phosphoric Acid, Alkali liquids & etc.

Specification

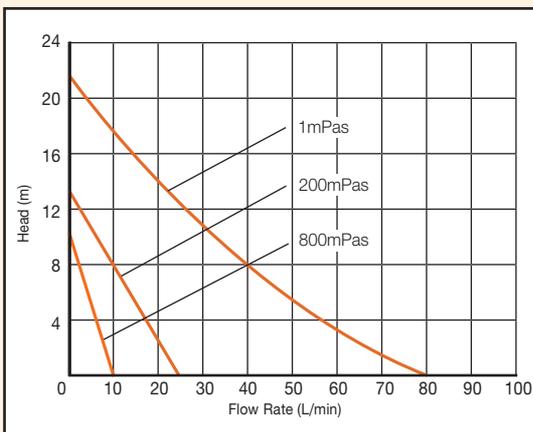
	DR-PH	DR-PL
Max. Flow Rate (L/min)	80	130
Max. Head (m)	21	8
Max. Viscosity (mPas)	800	200
Max. Specific Gravity	1.6	1.3
Dia. of Insertion (mm)	44	44
Dia. for Hose Connection (mm)	25	25
Limit of liquid Temp (°C)	50	50
Weight (kg)	700mm	4.0
	1,000mm	4.2
	1,200mm	4.4

Pipe Length

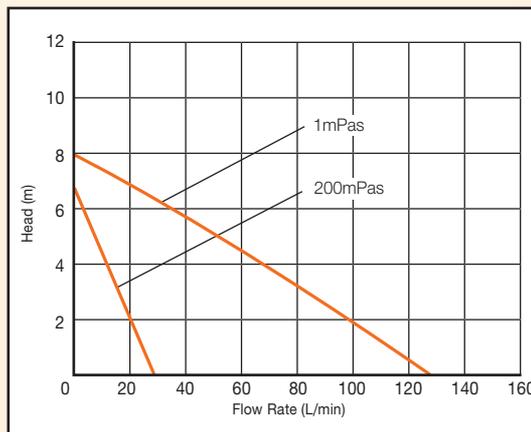
Length	A	B
700	700	655
1,000	1,000	955
1,200	1,200	1,155



PH (High Head Type)

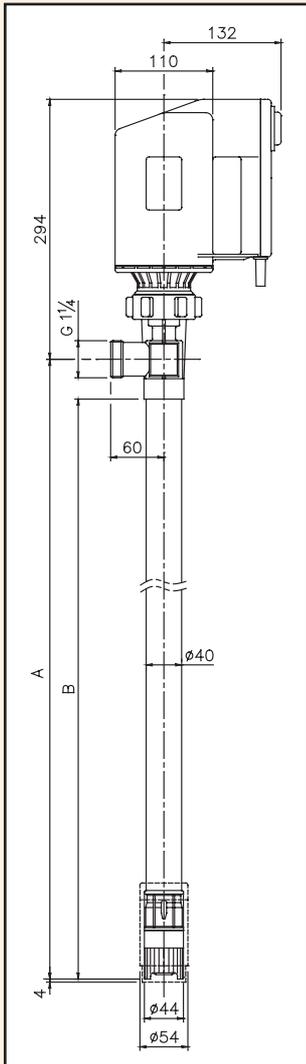


PL (Low Head Type)



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

Pump Pipe PVDF (Polyvinylidene Fluoride)



Application

For transferring strong Corrosive liquid

Examples of liquids to be pumped

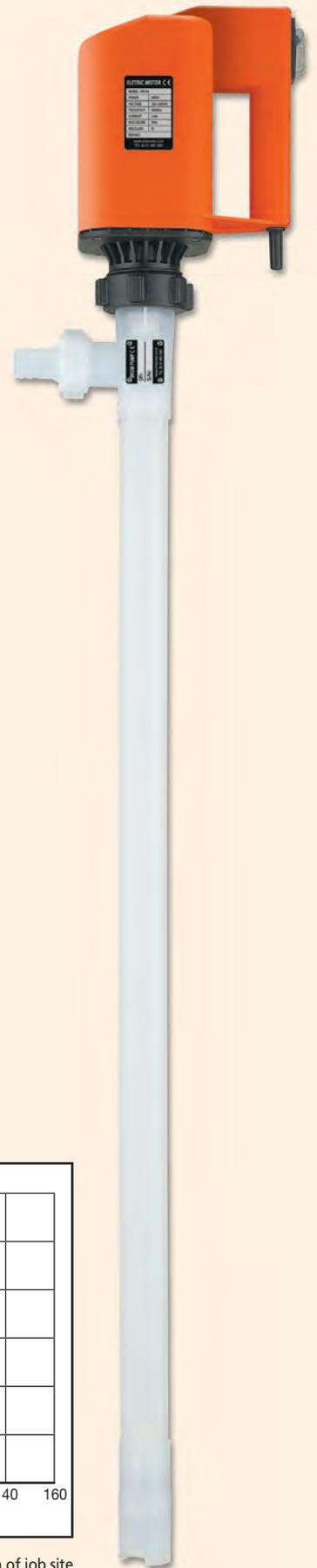
Strong Acid, Sodium Hypochlorite, Hydrofluoric Acid & etc.

Specification

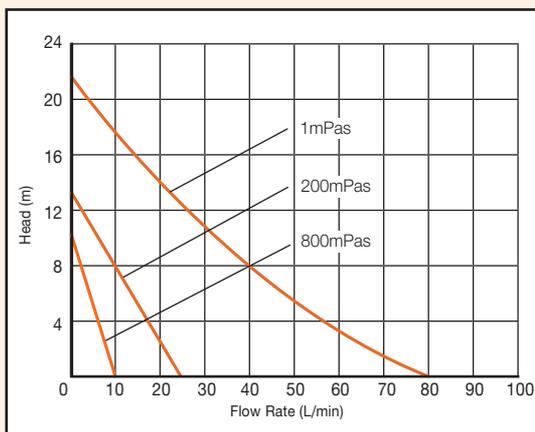
	DR-FH	DR-FL
Max. Flow Rate (L/min)	80	130
Max. Head (m)	21	8
Max. Viscosity (mPas)	800	200
Max. Specific Gravity	1.6	1.3
Dia. of Insertion (mm)	44	44
Dia. for Hose Connection (mm)	25	32
Limit of liquid Temp (°C)	80	80
Weight (kg)	700mm	4.2
	1,000mm	4.5
	1,200mm	4.7

Pipe Length

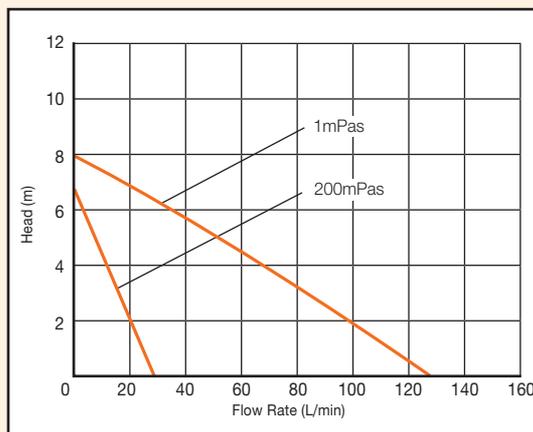
Length	A	B
700	700	655
1,000	1,000	955
1,200	1,200	1,155



FH (High Head Type)

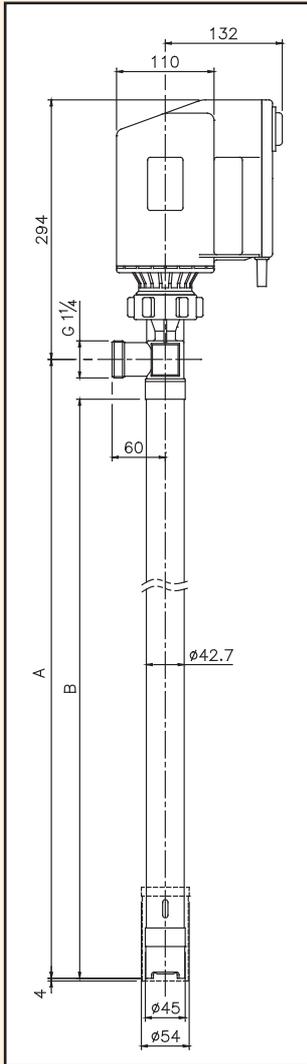


FL (Low Head Type)



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

Pump Pipe SS316 (Stainless Steel)



Application

For transferring Oil & Corrosive liquid

Examples of liquids to be pumped

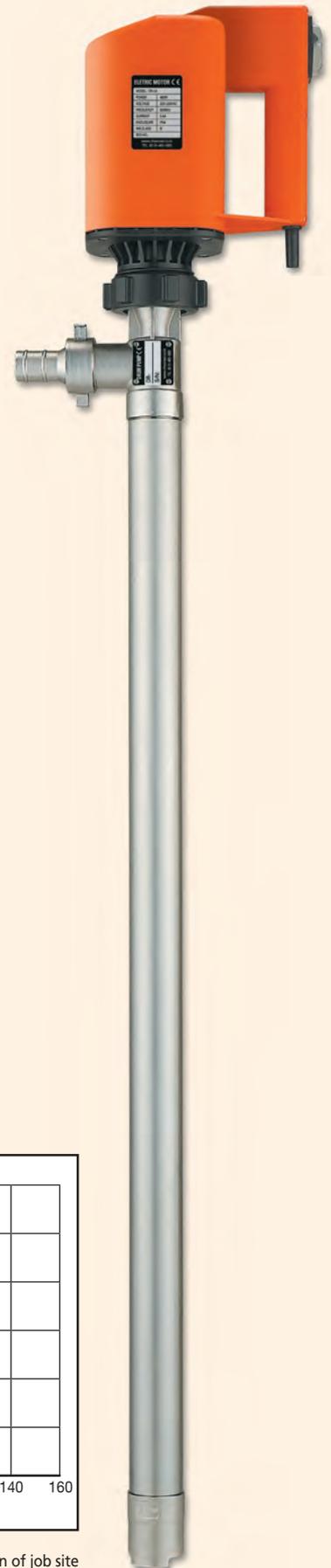
Oil, Ammonia, Solution, Foot additive & etc.

Specification

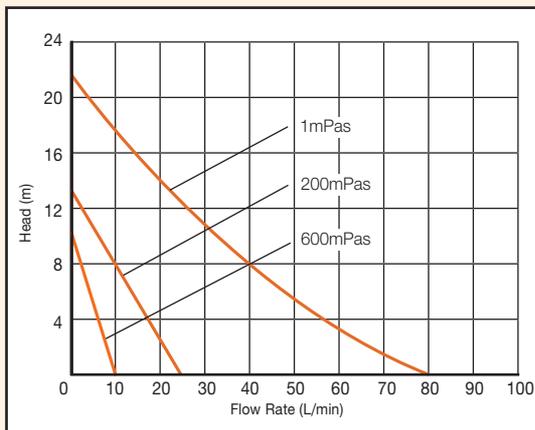
	DR-SH	DR-SL
Max. Flow Rate (L/min)	90	160
Max. Head (m)	17	7.5
Max. Viscosity (mPas)	600	150
Max. Specific Gravity	1.6	1.3
Dia. of Insertion (mm)	45	45
Dia. for Hose Connection (mm)	25	25
Limit of liquid Temp (°C)	100	100
Weight (kg)	700mm	5.9
	1,000mm	6.6
	1,200mm	7.2

Pipe Length

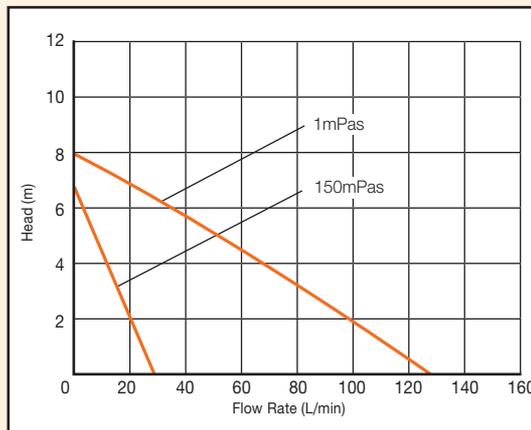
Length	A	B
700	700	655
1,000	1,000	955
1,200	1,200	1,155



SH (High Head Type)



SL (Low Head Type)



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



Drum Pump | Air Motor

- Simple structure
- Can be used for explosion proof area (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
Rated Speed	10,000RPM	Air Consumption	920L/min
Ex-proof Class	Ex II 2 G cp IIC T6	Weight	1.2~1.3kg

※ Certificate Number of Explosion Proof : 0425 ATEX 2535

Model Code

DR - P L S - 10 - A 4 - 1

Pump model

Valve type 1:Ball Valve

Motor power 4:460W

Motor type A:Air Motor

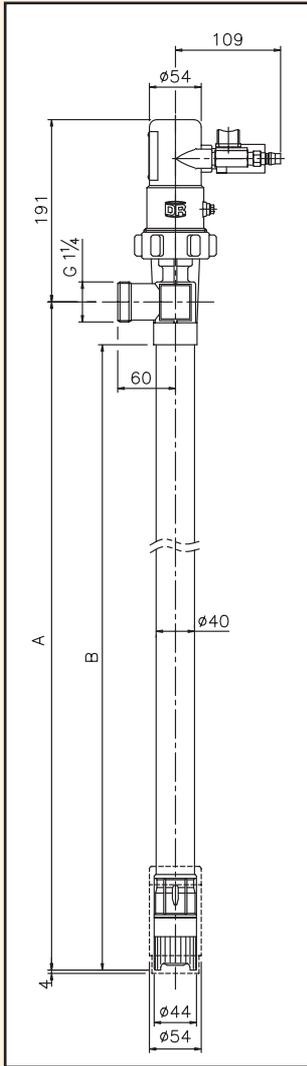
Pipe length 07:700mm 10:1000mm 12:1200mm

Shaft material S:SS316 H:HASTELLOY T:TITANIUM

Capacity features L:Low head H:High head

Pipe material P:PP F:PVDF S:SS316

Pump Pipe PP (Polypropylene)



Application

For transferring slight neutrality & liquid Acid, Alkali, Oil & etc.

Examples of liquids to be pumped

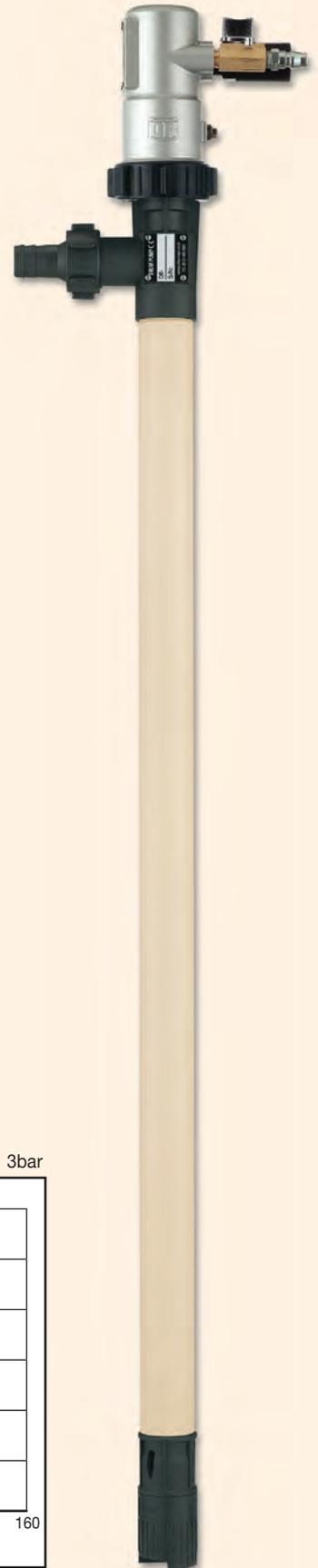
Sulphuric Acid, Acetic Acid, Phosphoric Acid, Alkali liquids & etc.

Specification

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

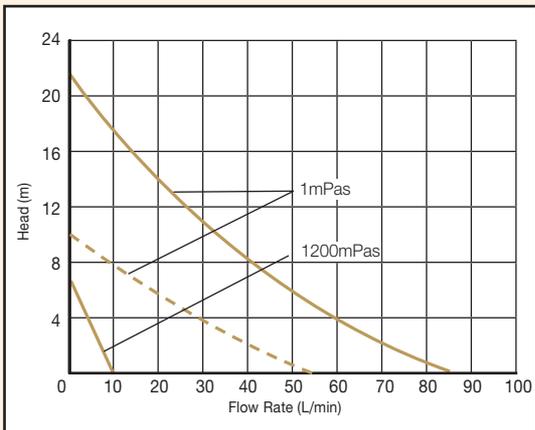
Pipe Length

Length	A	B
700	700	655
1,000	1,000	955
1,200	1,200	1,155



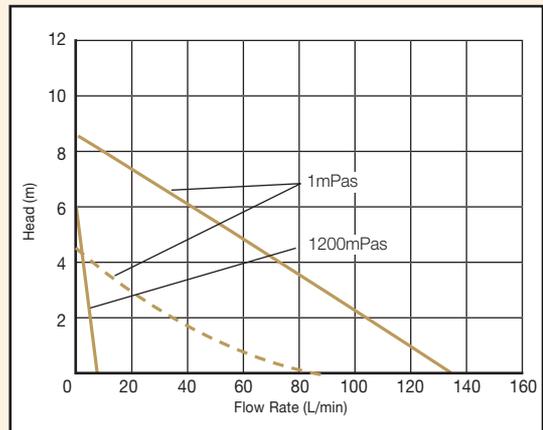
PH (High Head Type)

— 6bar - - - 3bar



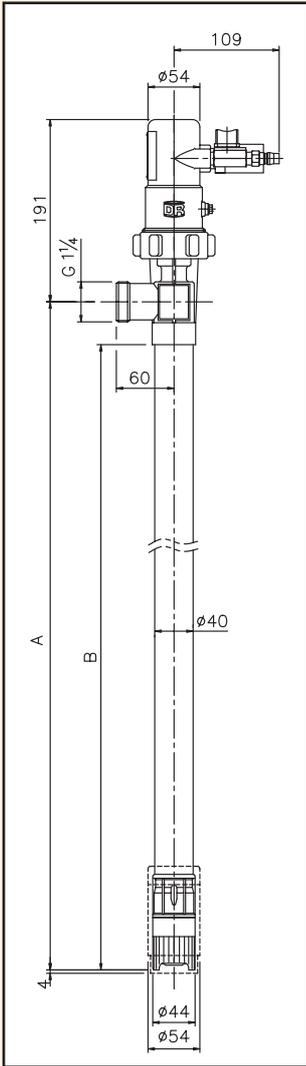
PL (Low Head Type)

— 6bar - - - 3bar



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

Pump Pipe PVDF (Polyvinylidene Fluoride)



Application

For transferring strong Corrosive liquid

Examples of liquids to be pumped

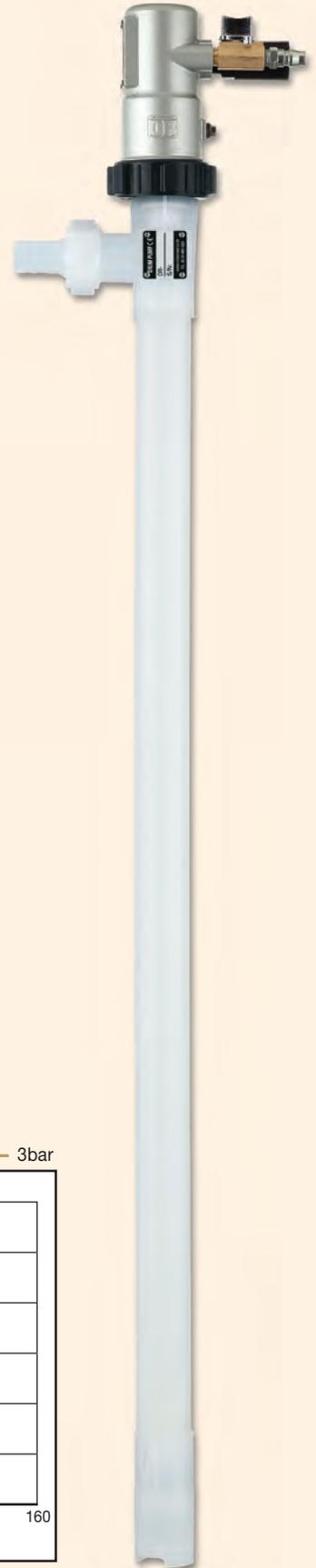
Strong Acid, Sodium Hypochlorite, Hydrofluoric Acid & etc.

Specification

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

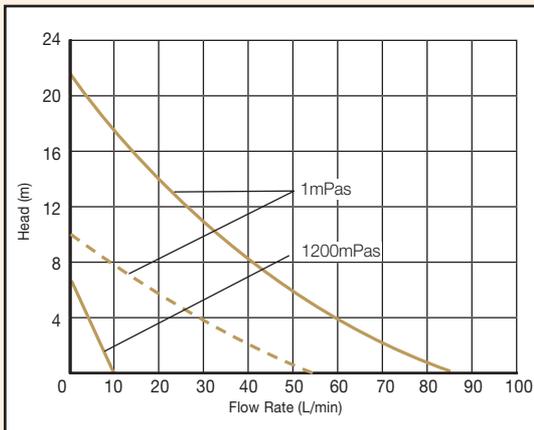
Pipe Length

Length	A	B
700	700	655
1,000	1,000	955
1,200	1,200	1,155



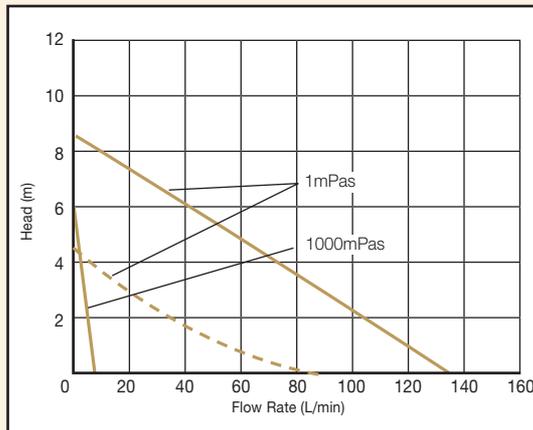
FH (High Head Type)

— 6bar - - - 3bar



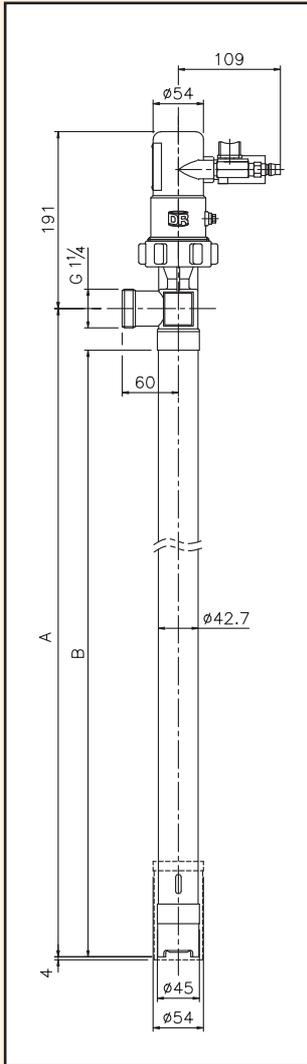
FL (Low Head Type)

— 6bar - - - 3bar



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

Pump Pipe SS316 (Stainless Steel)



Application

For transferring Oil & Corrosive liquid

Examples of liquids to be pumped

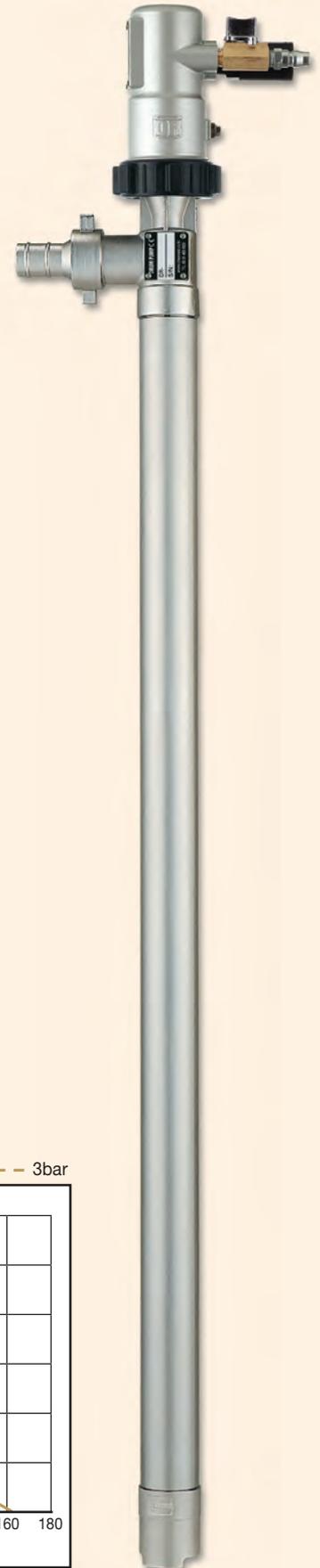
Oil, Ammonia, Solution, Foot additive & etc.

Specification

	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 Connection (mm)	25	25
Limit of liquid Temp (°C)	100	100
Weight (kg)	700mm	4.0
	1,000mm	4.8
	1,200mm	5.3

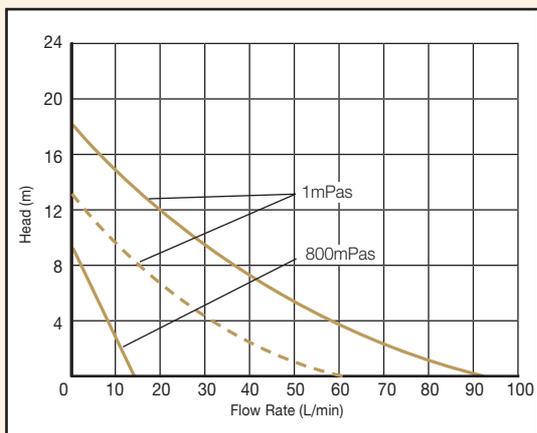
Pipe Length

Length	A	B
700	700	655
1,000	1,000	955
1,200	1,200	1,155



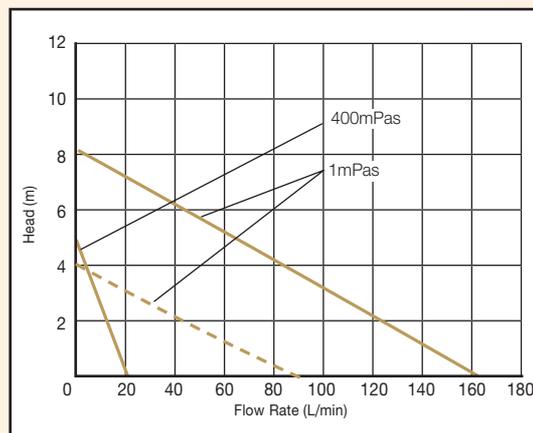
SH (High Head Type)

— 6bar - - - 3bar



SL (Low Head Type)

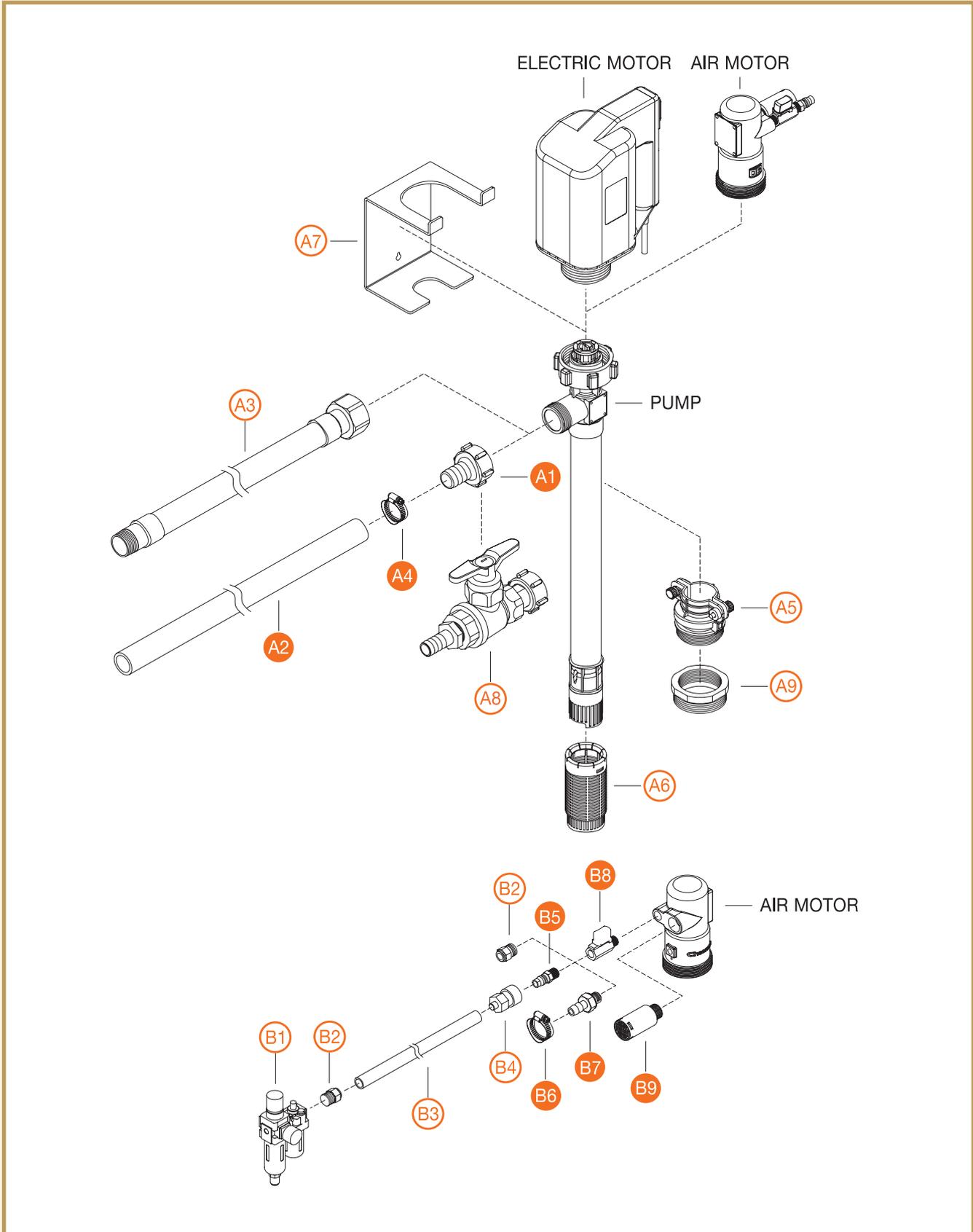
— 6bar - - - 3bar



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

Accessories

● Standard Accessories ○ Optional Accessories



Accessories

Classified by Pump Material

● Standard Accessories ○ Optional Accessories

	PP PIPE	PVDF PIPE	SS316 PIPE
<p>A1 Hose Connector Hose Connector, Union Nut, Packing Thread G1$\frac{1}{4}$</p>			
<p>A2 Hose (1.5m) PVC Spring Hose: 5bar, 60°C PTFE Flexible Hose: 3bar, 260°C</p>			
<p>A3 Hose (1.5m) SS304 Flexible Hose: 15bar, 300°C Thread G1$\frac{1}{4}$×R1</p>	—	—	
<p>A5 Drum Adapter For fixing the pump pipe to the drum opening Thread G2</p>			
<p>A9 Adapter Bushing Additionally installed on drum adapter and fixed to a Plastic Drum Thread BCS70×6</p>			—
<p>A6 Strainer Mounted on the pump suction and keep impurities away from the rotating parts</p>			
<p>A8 Ball Valve Open & Close discharge port Thread G1$\frac{1}{4}$</p>			

Common use

● Standard Accessories ○ Optional Accessories

<p>A4 Hose Clamp For fixing of the hose inserted into the hose connector Size $\varnothing 19 \sim \varnothing 40$</p>		<p>A7 Wall Bracket For safety storage of the pump</p>	
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Air Motor Accessories

● Standard Accessories ○ Optional Accessories

<p>B1 Air Unit Filter, Regulator & Lubricator Thread Rc $\frac{3}{8}$, Max. 10bar</p>		<p>B2 One Touch Fitting Thread R $\frac{1}{4}$ or R $\frac{3}{8}$ Size $\varnothing 12$</p>	
<p>B3 Air Hose Polyurethane braided hose $\varnothing 12 \times \varnothing 8$, Max. 8bar</p>		<p>B4 Air Coupler (Socket) Size $\varnothing 12 \times \varnothing 8$</p>	
<p>B5 Air Coupler (Plug) Thread R $\frac{1}{4}$</p>		<p>B6 Hose Clamp Size $\varnothing 6 \sim \varnothing 16$</p>	
<p>B7 Hose Nipple Thread R $\frac{1}{4}$ Hose Nozzle $\varnothing 8 \sim \varnothing 9$</p>		<p>B8 Ball Valve Open & close compressed air Thread R $\frac{1}{4}$ \times Rc $\frac{1}{4}$</p>	
<p>B9 Muffler Device for reducing the noise caused by releasing compressed air to atmosphere Thread R $\frac{1}{2}$</p>			

