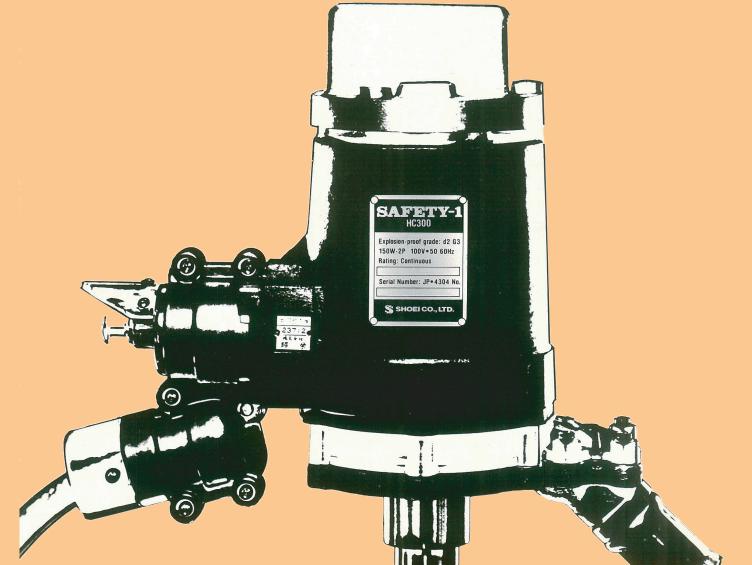


Shoei Electric Pumps for Explosive and

Pressure-resistant, portable pumps for use with flammable substances offer safe, efficient transferring of explosive and dangerously

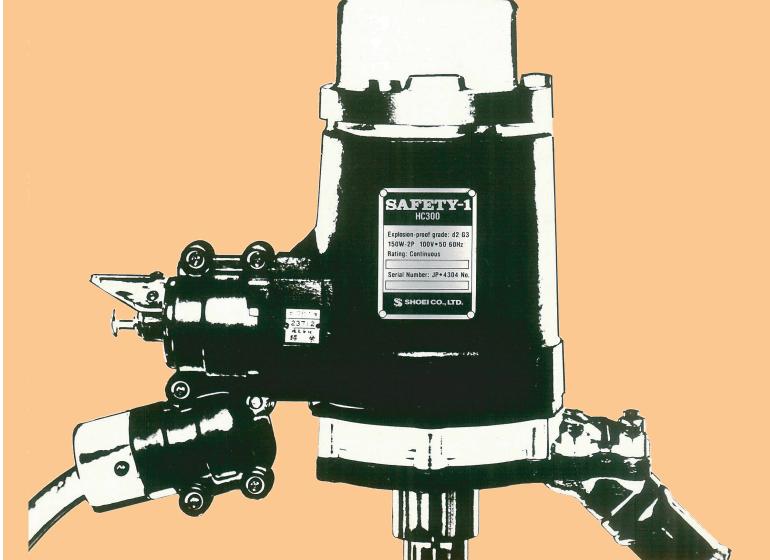


S' SHOEI CO., LTD.

SAIFIETY-1

Flammable Liquids

flammable liquids.



sparks, caused by metal parts, which can be the cause of accidents.

Precautionary measures

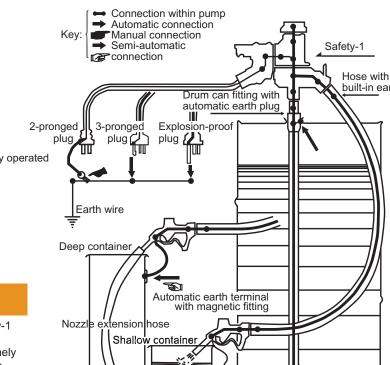
• Handle the pump with care to avoid generating static electricity and

of static electricity. The pump is equipped with a triple-wire electric

system, including earth, to avoid accidents caused by static electricity. Daily inspection and maintenance of the pump is recommended for

• Attach an additional hose to the end of the hose nozzle to prevent liquid from pouring from a distance during operation, as shown in the

• Be sure to turn off the switch after use to avoid unnecessary stirring of



Earth system diagram Safety-1

Suction pipe -

Special measures have been taken against static electricity. Safety-1 has been provided with various innovations, and improvements to prevent accidents due to static electricity. The pump has an extremely thick pipe and hose, compared to conventional pumps, to provide a wide passage for the liquid to flow through smoothly.

Also, the motor revolution is kept to a minimum to prevent generation

Specifications

Туре	Output (W)	Lift/exhaust volume		_ , , , , , , , , , , , , , , , , , , ,		
	Voltage (v)	60Hz	60Hz	Parts touching liquid	Compatible liquids	
HC-300	150W (AC100V)	10m (max.) 90ℓ/min.	7m (max.) 80ℓ/min.	P.P.S. resin SUS 304 Teflon	Organic solvents, chemicals, alkali etc.	
HC-100	65W (AC100V)	5m 56ℓ/min.	4m 47ℓ/min.	Aluminum alloy Polyethylene SUS304, Teflon	Organic solvents, gasoline, kerosene, A-heavy oil, etc.	
FC	65W (AC100V)	5m 56ℓ/min.	4m 47ℓ/min.	Aluminum alloy nylon, SUS304, synthetic rubber	Gasoline, light oil, kerosene, A-heavy oil, etc.	
DE	DC12V(45W)	3.5m, 35ℓ/min.		Aluminum alloy, gus pipe,	Gasoline, light oil, kerosene,	
DF	DC24V(60W)	4.5m, 45 <i>ℓ</i> /	min.	synthetic rubber	A-heavy oil, etc.	





Manufacture office: 10-2, 5-chome, Mitejima, Nishi-yodogawa-ku, Osaka Phone 06-6473-8677

Yoshino-building, 1-Kanda-izumi-cho, Chiyoda-ku, Tokyo. Phone 03-3866-2962 10-2, 5-chome, Mitejima, Nishi-yodogawa-ku, Osaka.

SAFETY-1 **ELECTRIC** PUMPS

.. Contributing to safety and efficiency in all

fields of industry

*Input voltage can be adjusted to meet your requirements.

HC-300 (d2G3)

Explosion-proof, corrosion-proof, with high lift and exhaust. A portable pump provided with corrosion. proofing, high lift and sufficient exhaust capacity for organic solvents, chemicals, etc.





HC-100 (d2G3)

A portable pump designed for organic solvents and chemicals (Trichloroethylene, acetone, MEK, thinner, alcohol, etc.)

Options



Explosion-proof plug



FC (d2G3)

A portable pump designed to safely transfer petro-products (Benzene, gasoline, light oil, A-heavy oil, etc.)



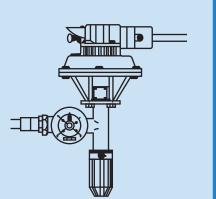
FCM (d2G3)

In addition to the functions of the FC, this pump is equipped with a scale.



DF (d2G3)

A 12/24 V battery-operated light weight pump.



DFM (d2G3)

with scale.

Battery-operated pump

Assures absolute safety, highefficiency and laborsaving in the transferring of combustible and explosive petro-products such as gasoline, kerosene, light oil, A-heavy oil, etc.

HC300 (d2G3)

Improved safety construction with continuous rating

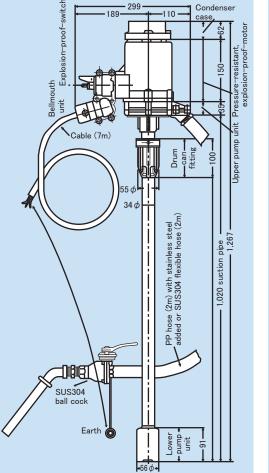
Pressure-resistant and explosion-proof construction, meets the explosion-proof construction standards for electro-mechanical equipment, (d2G3) set by the Ministry of Labor. Ideal for use with explosive and flammable fluids. The continuous rating permits long and continuous operation. *Verified certification number: 23712

Corrosion-proof and heat-resisting properties.

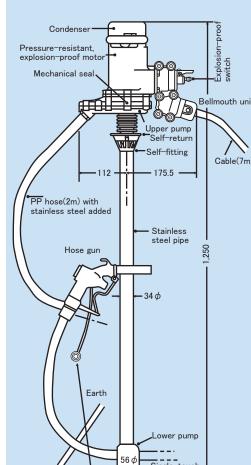
SUS304 is used in the parts of the pump which come info contact with the liquid and the pump casing is made of a special resin, providing chemical-resistant and heat-resistant properties similar to those of fluorine resin.

→ Q	ℓ/n	ℓ/min		
Specifications	3			
Motor				
Туре	Pressure-resista phase induction	nt, explosion-proof, single- motor		
Explosion-proof symbol	d2G3			
Starting method	Capacitor starting	g		
Number of poles	2-pole			
Power source	100V			
Current	Full-load 2.7A(7	.5A at start-up)		
Frequency	50/60Hz			
Output power	150W			
Switch				
Туре	Pressure-resistant, explosion-proof single- circuit, switch			
Explosion-proof symbol	d2G3			
Switching capacity	10A(AC100V)			
Pump				
Frequency	60Hz	50Hz		
Maximum lift	10m	7m		
Maximum exhaust	90 t/min.	75 ℓ/min.		
Revolutions	3,400 r.p.m	2,800 r.p.m		
A	I # 45005	6		

HC-300

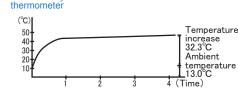


HC-100



Pressure-proof, explosion-proof construction meets the explosion-proof con-struction standards for electro-mechanical equipment (d2G3) set by the Ministry of

Measured by thermister thermometer/bar



Results									
Time(min.)	0	30	60	90	120	165	195	225	2
Surface temp. of motor(°C)	13.0	34.0	40.0	42.0	43.3	43.5	43.8	45.3	45

The liquid in one drum can be transferred in as little as three minutes and 35 seconds, and these pumps can also be operated continuously for up to 24 hours.

HC-100 (d2G3), **FC** (d2G3), **FCM** (d2G3)

· Verified certification No. ... 1035 (HC-100,FC)

Continuous rating permits operation for a whole day without the possibility of any trouble occurring. The power consumption of the motor is only 65 watts, allowing economical operation. Also, the combination of two pumps will allow a high pumping efficiency of 56½ (60Hz) per minute.

Meter-equipped pumps may show different values from those shown here. For farther details,ask one of

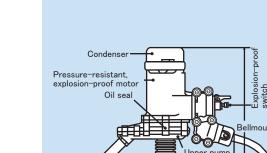
Performance Test fluid: gasoline

Motor temperature

Motor	
Туре	Pressure-resistant, explosion-proc phase induction motor
Explosion-proof symbol	d2G3
Starting method	Capacity startin
Number of poles	2 poles
Power source	100V
Current	Full-load 1.8A(2.5A at start-up)
Frequency	50/60Hz
O	CEM

The HC, FC and the DF can be used only with gases specified by "d2G3"

FC



- NBR hose(2m)

steel pipe

Specifications

Explosion-proof symbol Starting method Number of poles Power source Current Frequency Output power	d2G3 Capacity startin 2 poles 100V Full-load 1.8A(2.5A at start-up) 50/60Hz 65W		
Switch			
Туре	Pressure-resistant, explosion-proof single- throw switch		
Explosion-proof symbol	d2G3		
Switching capacity	2.5A(100VAC)		
Pump			
Frequency	60Hz	50Hz	
Maximum lift	5m	4m	
Maximum exhaust	56 t/min.	40 t/min.	
Revolutions	3,400 r.p.m	2,800 r.p.m	
Applied viscosity	Less than 150 C	PS	
Applied temperature	Less than 30°C		
Height Weight Power cable Hose Hose gun	1,250mm Approx. 10kg 7m(Chloroprene class-3, 3-core cable) 2m Type 06473		

Pressure resistant, explosion proof

construction meets explosion proof construction standards for electromechanical equipment (d2G3) set by the Ministry of Labor.

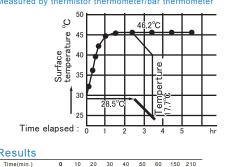
Verified certification No. 2400(12V),20901(24V)

Pressure-resistant, explosion-proof construction with motor, switch and wire lead-in port, fixed in an explosion-proof box.
Uses a long-life DC motor,permitting long hours of operation without over-heating or fear of combustion or explosion.

Equipped with a safety switch (certified verification No. 18170, authorized by the Ministry of Labor) ensuring safe and easy

All possible measures have been taken to fully ground any static electricity that may be

Motor temperature



Continuous operation.

The liquid in one drum can be transferred in as little as four minutes and the power consumed is as low as 45W, assuring high economy and

Surface temp. of 28.5 35 36.8 39.5 42.5 44.2 46.5 46.2 45.9

These trouble-free pumps have a high pumping efficiency of approx. 45 l/min. at 12V, and

(Meter-equipped pumps may show different values from those shown here For farther

DF (d2G3), **DFM** (d2G3)

Performance Temperature-25°C/Test fluids: gasoline Liquid:22°C/Test fluid: gasoline

details, ask one of our specialists.

Safetv·1—Easy on Batteries

Safety-1DF provides high performance on little power, so it does not require an additional car

This means that the DF pump can be used at anytime and anywhere, as a mobile pump.

Specifications

	Motor	
_	Type Explosion-proof symbol Power source Current Output power	Pressure-resistant, exeplosion-proof DC motor d2G3 12/24V Full-load, 6A 45W(12V),80W(24V)
	Switch	
_	Туре	Voltage-proof, explosion-proof, single-throw switch
_	Explosion-proof symbol Switching capacity	d2G3 6A(12V),7A(24V)DC
	Pump	
hr	Maximum lift Maximum exhaust Revolutions	4m(12V),5m(24V) 45l/min.(12V),60l/min.(24V) 4,200r.p.m.(12V),5,600r.p.m.(24V)
	Height Weight Power cable Hose Hose gun	1,250mm Approx.8kg 7m(Chloroprene class-3,3-core cable) 2m Type 4304

