

## HSR Series Reciprocating Diaphragm Liquid Pumps



### Transferring liquid at Max. 87 PSI

Compact, lightweight, reciprocating diaphragm liquid pumps suitable for OEM equipment. Easily transfer liquids at high pressure with built-in variable speed control.

#### High-Pressure Liquid Transfer

Max. Discharge pressure 87 PSI

#### Wide Selection

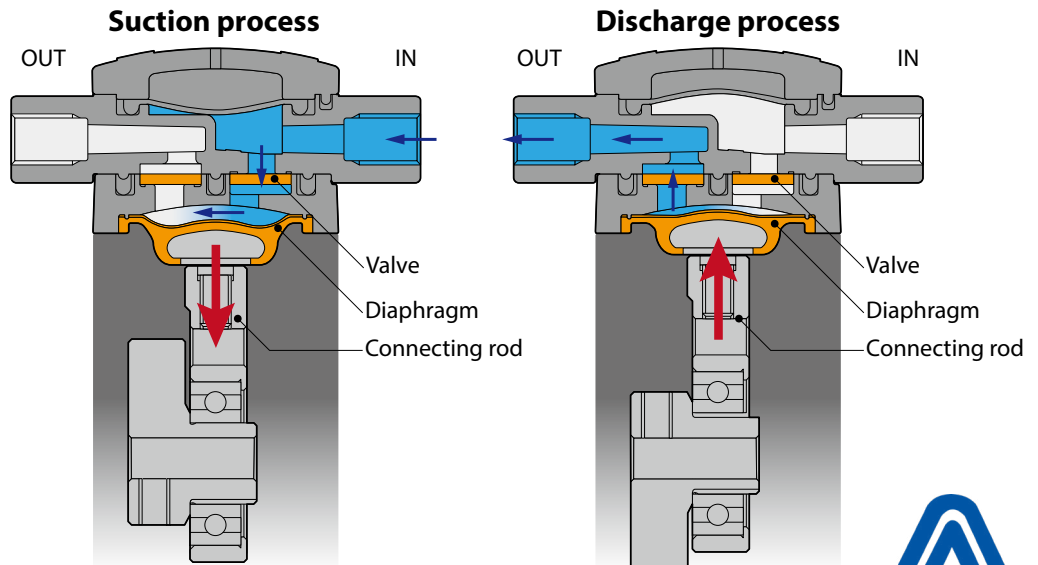
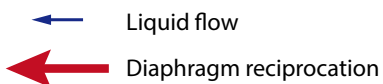
Variable flow capacity with control voltage 1-5VDC  
Discharge capacity range 30-150mL/min

#### Compact and Lightweight

Compact and lightweight design for easy layout in equipment. Contributes to equipment efficiency and downsizing.

#### Operating Principle

The rotary motion of the motor drives the connecting rod attached to the diaphragm in the pump chamber. Liquid is then transferred from the inlet to outlet.



## Pump Identification



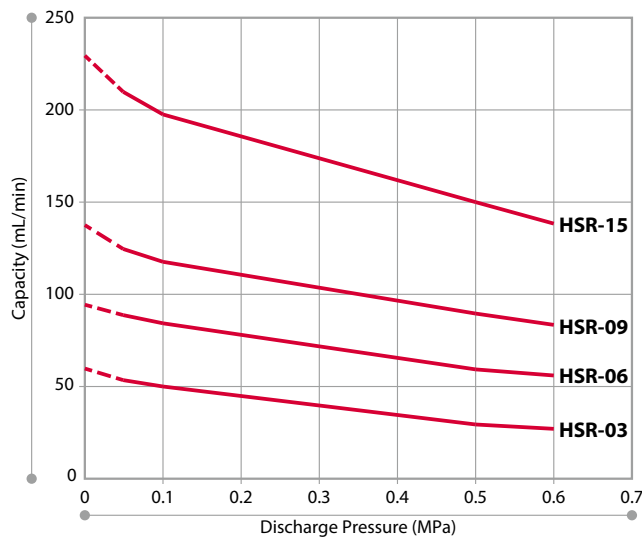
- ① Series name  
**03** : HSR-03  
**06** : HSR-06  
**09** : HSR-09  
**15** : HSR-15
- ② Materials of wet end  
**P** : GFRPP
- ③ Materials of valve  
**V** : FKM  
**E** : EPDM
- ④ Connection  
No symbol :  $\varnothing 4 \times \varnothing 6$  hose barb\*  
**M** : M5 female thread  
**U** : UNF1/4-28 female thread  
(Flat bottom fitting connection)  
\*HSR-09/15 only
- ⑤ Base  
No symbol : Without base  
**B** : With base
- ⑥ Rated voltage  
**D4** : 24V DC brush less motor  
(Variable speed control)
- ⑦ Special specifications if applicable

## Specifications

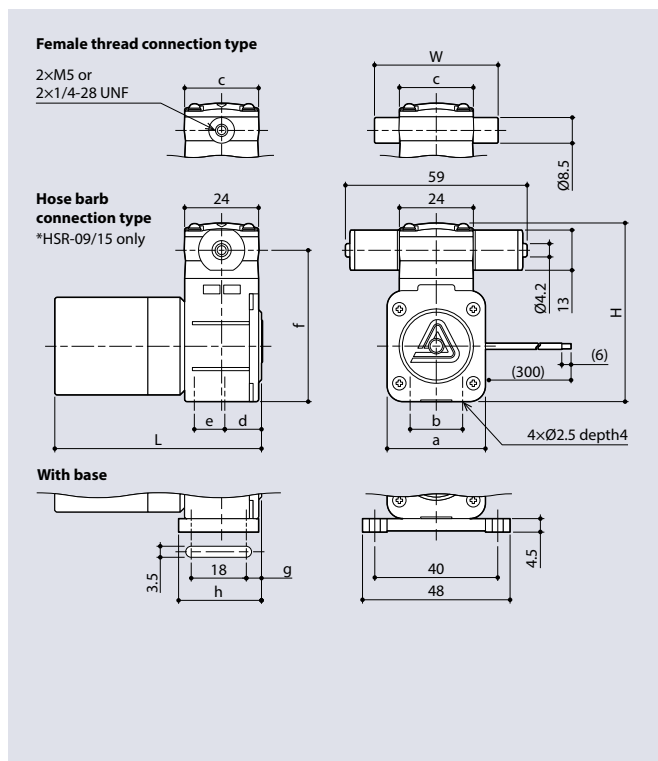
Model	Rated specification		Max. discharge pressure PSI (MPa)	Motor		Variable external input V	Self-priming height m	Connection	Weight lbs (g)
	Capacity mL/min	Pressure PSI (MPa)		Voltage V	Current A				
<b>HSR-03</b>	30	73 (0.5)	87 (0.6)	24 DC	0.26	1 - 5 DC	2	Female thread (M5 or 1/4-28 UNF)	0.37 (170)
<b>HSR-06</b>	60				0.36				
<b>HSR-09</b>	90				0.26				
<b>HSR-15</b>	150				0.36			Female thread (M5 or 1/4-28 UNF) Hose barb ( $\varnothing 4 \times \varnothing 6$ )	0.42 (190)

\*Fluid temperature range: FKM : 10 to 40°C, EPDM: 5 to 40°C. Ambient temperature range: 5 to 40°C.

## Performance Curves



## Dimensions in mm



	W	H	L	a	b	c	d	e	f	g	h
<b>HSR-03/06</b>	34	48	67	28	17	18	11.5	10	41	4.5	26.5
<b>HSR-09/15</b>	40	58	67	32	17	24	12	10	49	5	27

## Wet-end Materials

Material code	PV	PE
Pump head	GFRPP	GFRPP
Valve seat	GFRPP	GFRPP
Valve	FKM	EPDM
Diaphragm	PTFE+EPDM	PTFE+EPDM
Chamber diaphragm	FKM	EPDM