

Low pulsation & High efficient mechanism bring air chamber-free operation and energy saving

## TD-F

TD series is a mechanically-driven diaphragm pump with twin pump heads.

Air Chamber - free

Wide Control Range

Energy Saving



## Specifications

Model		01	03	05	1	2	4	6	8	
Max. Discharge capacity	VC/V6/S6*1	9 (0.15)	18 (0.3)	30 (0.5)	60 (1)	132 (2.2)	246 (4.1)	366 (6.1)	492 (8.2)	
	VS*2	7.2 (0.12)	14.4 (0.24)	24 (0.4)	48 (0.8)	132 (2.2)	246 (4.1)	366 (6.1)	492 (8.2)	
Max. Discharge pressure		1.0			0.5			0.4		
Flow repeatability		±2%FS								
Flow linearity		±2%FS								
Control range		1:10 (6 to 60Hz)								
Connection	Flange JIS10K	Outlet	15A				25A			
		Inlet	15A		15A VS: 25A		25A			
	Hose	Ø12×Ø18								
	Union	VP16								
Stroke length		1.2	2.3	1.2	2.3	6				
Stroke rate		12 to 116				7 to 70	12 to 116	9 to 87	12 to 116	
Diaphragm effective diameter		Ø30		Ø60		Ø72		Ø100		
Max suction lift*3		1m								
NPSHr		0.07			0.08					
Inertia resistance Pi		0.001	0.002	0.004	0.007	0.010		0.011	0.019	
Allowable liquid viscosity	VC	300 mPa·s or less								
	V6	500 mPa·s or less								
	VS	300 to 1000 mPa·s								
	S6	500 mPa·s or less				1000 mPa·s or less				
Weight*4	VC/V6/VS	26		27		30		35		
	S6	30		32		35		43		
Standard motor		3Phase, Totally-enclosed fan-cooled Outdoor type, Output 0.4kW/4P, Voltage 200/220/400/440V, 60Hz, Insulation class E								
Standard inverter		Output 0.4kW, Voltage 200/400V								

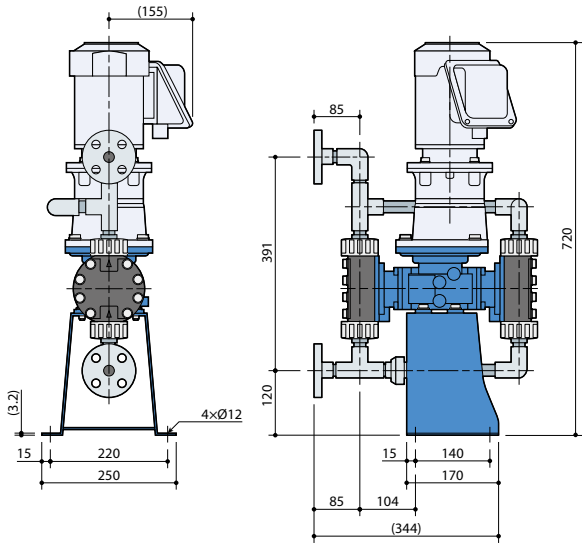
\*1 Represents the discharge capacity based on pumping clean water at 25°C and the max discharge pressure, and may increase as the pressure reduces.

\*2 The above information is based on operation with silicone oil (Newtonian liquid) of 1000mPa·s at 25°C with our plumbing system and may change with plumbing conditions or when a different liquid is used. When liquid viscosity gets lower, a flow rate increases and repeatability becomes worse.

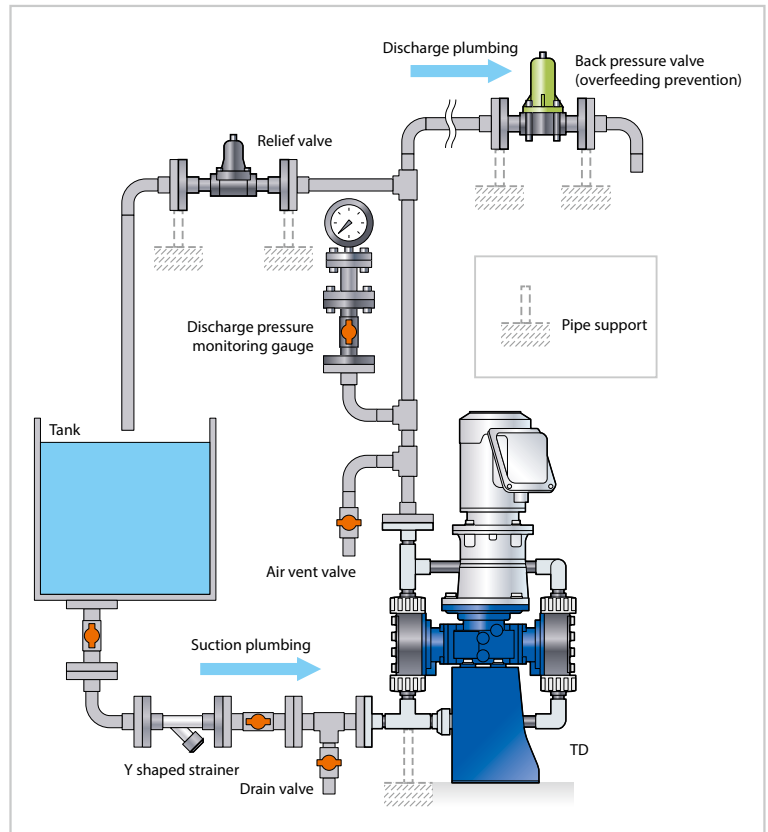
\*3 Represents the allowable highest lift with clean water at 25°C in a suction lift application.

\*4 Represents the total weights of the pump unit plus the motor unit.

## Dimensions (mm)



## Figure of recommended plumbing



## Accessories

### Relief valve

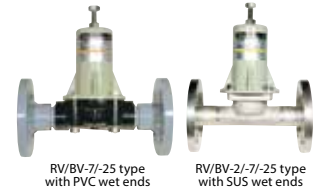
Automatically opens for depressurization of the discharge line when the set pressure is exceeded.



RV/BV-3 type with PVC wet ends

### Back pressure valve

Positioned close to an injection point on the discharge line for the prevention of overfeeding or siphonage.



RV/BV-7/-25 type with PVC wet ends

RV/BV-2/-7/-25 type with SUS wet ends

Wet-end Materials	Model	Max. pressure L/min	Set pressure L/min	Connections JIS10K flange	Weight kg
PVC	RV-3P-15	3.0	0.3 to 1.0	15A	0.6
	RV-3P-20			20A	
	RV-3P-25			25A	
	RV-7V-20	7.5	0.3 to 0.8	20A	3.0
	RV-7V-25			25A	3.5
	RV-7VB-20			20A	3.0
	RV-7VB-25			25A	3.5
	RV-25V-25	25	0.3 to 0.8	25A	4.0
	RV-25V-40			40A	
	RV-25V-50			50A	
SUS316 SCS14	RV-256-15	2.0	0.3 to 0.8	15A	3.5
	RV-256B-15		0.8 to 1.5	15A (JIS16K)	
	RV-756-25	7.5	0.3 to 0.8	25A	6.0
	RV-756B-25		0.8 to 1.5	25A (JIS16K)	
	RV-2556-25	25	0.3 to 0.8	25A	7.5
	RV-2556-40			40A	
	RV-2556B-25			25A	

• A PTFE diaphragm is used for all the RVs.

Wet-end Materials	Model	Flow rate L/min	Set pressure L/min	Connections JIS10K flange	Weight kg
PVC	RV-3P□-12H	0.03 to 3.0	0.1 to 0.8	Ø12xØ18 hose	0.4
	RV-3P-15			15A	0.6
	BV-3P-20			20A	0.9
	BV-7V-20	0.2 to 7.5	0.05 to 0.8	25A	3.5
	BV-7V-25			20A	
	BV-25V-25			25A	
	BV-25V-40			40A	
	BV-25V-50	2 to 25	0.1 to 0.8	50A	4.6
	BV-256-15			15A	3.5
	BV-756-25			25A	6.0
SUS316 SCS14	BV-2556-25	0.2 to 7.5	0.05 to 0.8	25A	7.0
	BV-2556-40			40A	7.5
	BV-2556-50	2 to 25	0.1 to 0.8	25A	8.7

- The code in the field represents an O ring material (E: EPDM V: FKM)
- A PTFE diaphragm is used for all the BVs
- A back pressure valve will not break discharge line flow at the time of the stop of pump. Install a shutoff valve to break the flow completely.

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⚠ Caution for safety use: Before use of pump, read instruction manual carefully to use the product correctly.

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