

IWAKI  
METERING  
PUMPS

**TD-F**



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

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 <sup>*1</sup>	L/h	9 (0.15)	18 (0.3)	30 (0.5)	60 (1)	132 (2.2)	246 (4.1)	366 (6.1)	492 (8.2)
	VS <sup>*2</sup>	(L/min)	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	MPa	1.0				0.5		0.4		0.3
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	mm	1.2	2.3	1.2	2.3	6				
Stroke rate	spm	12 to 116				7 to 70	12 to 116	9 to 87	12 to 116	
Diaphragm effective diameter	mm	Ø30		Ø60		Ø72		Ø100		
Max suction lift <sup>*3</sup>		1m								
NPSHr	MPaA	0.07		0.08		0.019				
Inertia resistance Pi	MPa/1m	0.001	0.002	0.004	0.007	0.010	0.011	0.019		
Allowable liquid viscosity	VC	300 mPa·s								
	V6	500 mPa·s								
	VS	300 to 1000 mPa·s								
	S6	500 mPa·s or less				1000 mPa·s				
Weight <sup>*4</sup>	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								

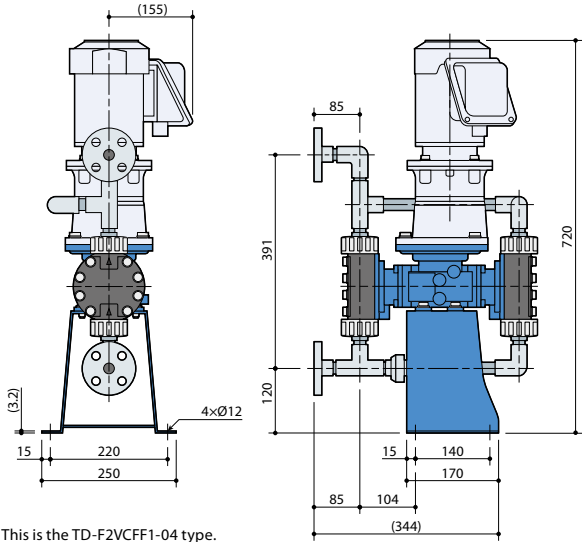
<sup>\*1</sup> Represents the discharge capacity based on pumping clean water at 25°C and the max discharge pressure, and may increase as the pressure reduces.

<sup>\*2</sup> 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.

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

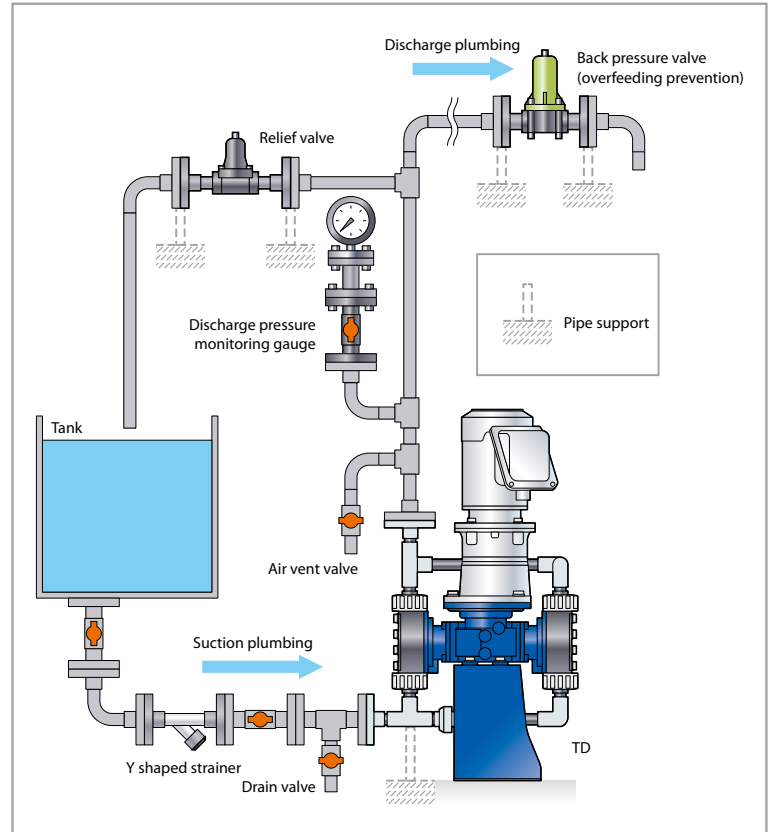
<sup>\*4</sup> Represents the total weights of the pump unit plus the motor unit.

**Dimensions (mm)**



This is the TD-F2VCCF1-04 type. Please contact us for details.

**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

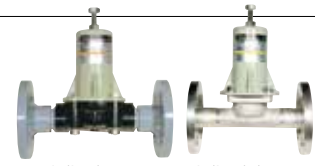
**Selection table**

Wet-end Materials	Model codes	Max. capacity L/min	Set pressure MPa	Connections JIS10K flange	Weight kg
PVC	RV-3P-15	3.0	0.3 to 1.0	15A	0.6
	RV-3P-20			20A	0.6
	RV-3P-25			25A	0.9
	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	25	0.3 to 1.0	25A	3.5
	RV-25V-25			25A	3.5
	RV-25V-40			40A	4.0
	RV-25V-50	50A	4.6		
SUS316 SCS14	RV-2S6-15	2.0	0.3 to 0.8	15A	3.5
	RV-2S6B-15			15A(JIS16K)	3.5
	RV-7S6-25			25A	6.0
	RV-7S6B-25	7.5	0.3 to 0.8	25A	6.0
	RV-25S6-25			25A(JIS16K)	6.0
	RV-25S6-40			25A	7.5
	RV-25S6B-40	25	0.3 to 0.8	40A	7.5
	RV-25S6B-25			25A	7.5

\* A PTFE diaphragm is used for all the RVs.

**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

**Selection table**

Wet-end Materials	Models	Flow rate L/min	Set pressure MPa	Connections JIS10K flange	Weight kg
PVC	BV-3P□-12H	0.03 to 3.0	0.1 to 0.8	Ø12xØ18 hose	0.4
	BV-3P-15			15A	0.6
	BV-3P-20			20A	0.9
	BV-3P-25	0.2 to 7.5	0.05 to 0.8	25A	3.5
	BV-7V-20			20A	3.5
	BV-7V-25			25A	4.0
	BV-25V-25	2 to 25	0.1 to 0.8	40A	4.6
	BV-25V-40			50A	4.6
	BV-25V-50			50A	4.6
	SUS316 SCS14	BV-2S6-15	0.02 to 2.0	0.05 to 0.8	15A
BV-7S6-25		25A			6.0
BV-25S6-25		2 to 25	0.1 to 0.8	25A	7.0
BV-25S6-40				40A	7.5
BV-25S6-50				50A	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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