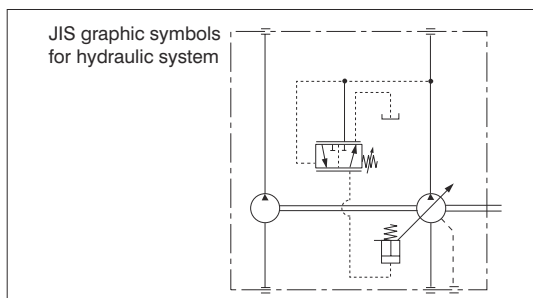


VD series Dual Pump

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Nomenclature

VD **×** **-** **×** **×** **A** **×** **R** **-** **×** **×**
 1 2 3 4 5 6 7

- 1 Model No.**
 (Applicable fluids: petroleum-based hydraulic oil)
 VD: VD series Dual Pump
- 2 Vane pump capacity code**
 1: DS11P
 2: DS12P
 3: DS13P
 4: DS14P
- 3 Piston pump capacity code**
 8: V 8 (8.0 cm³/rev)
 15: V15 (14.8 cm³/rev)
 38: V38 (37.7 cm³/rev)
- 4 Control method**
 A: Pressure compensator control
- 5 Pressure adjustment range (piston pump)**
 1: 0.8 to 7 MPa { 8 to 70 kgf/cm² }
 2: 1.5 to 14 MPa { 15 to 140 kgf/cm² }
 3: 3.5 to 21 MPa { 35 to 210 kgf/cm² }
- 6 Direction of rotation, when viewed from the shaft end**
 R: Clockwise (rightward)
- 7 Design No. (The design No. is subject to change)**
 30: Pump model VD×-8A1R
 95: Pump model VD×-15A×R, VD×-38A×R

Vane Pump Specifications

Model code	[Conditions] Input rotational speed: 1800 min ⁻¹ , Fluid used: equivalent to ISO VG32, Fluid temperature: 40°C								
	Discharge rate L/min				Shaft input kW				
	0.4 MPa {4 kgf/cm ² }	3 MPa {30 kgf/cm ² }	5 MPa {50 kgf/cm ² }	7 MPa {70 kgf/cm ² }	0.4 MPa {4 kgf/cm ² }	1 MPa {10 kgf/cm ² }	3 MPa {30 kgf/cm ² }	5 MPa {50 kgf/cm ² }	7 MPa {70 kgf/cm ² }
DS11P	5.0	4.5	4.1	3.9	0.15	0.28	0.55	0.82	1.1
DS12P	7.7	7.2	6.7	6.5	0.20	0.40	0.75	1.12	1.5
DS13P	12.6	11.8	11.5	11.0	0.25	0.50	1.05	1.55	2.1
DS14P	22.1	21.2	20.5	20.0	0.35	0.77	1.65	2.50	3.4

Note: Vane pump models

DS1×P-20S5: For VD×-8A1R-30, DS1×P-20S2: For VD×-15A×R-95 or VD×-38A×R-95

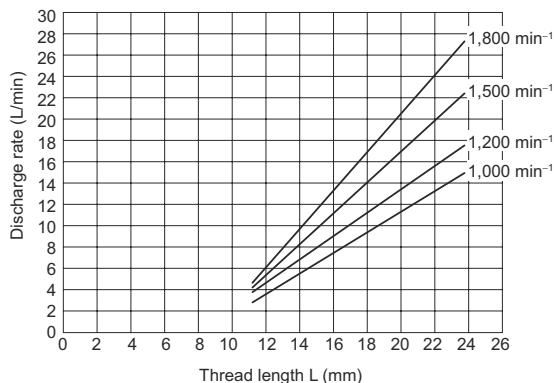
Piston Pump Specifications

Relationship between the protruding length of the discharge rate adjusting screw and the discharge rate

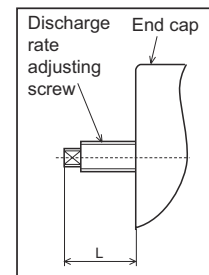
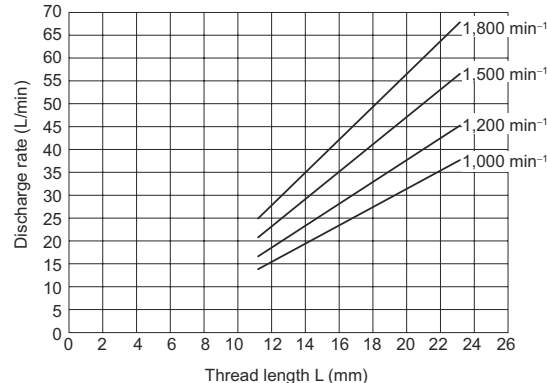
● The discharge rate can be roughly judged from the protruding length of the discharge rate adjusting screw (L).

(Note: The discharge rate for VD×-8A1R-30 cannot be adjusted.)

VD×-15A×R-95



VD×-38A×R-95



Refer to Page A-8 for other detailed specifications.

Before using the product, please check the guide pages at the front of this catalog.

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Technical Drawing of the PC Valve Assembly

Front View (Left):

- Suction port $G\frac{3}{4}$
- Bonded seal (piston pump)
- Discharge port $G\frac{3}{4}$
- Bonded seal (piston pump)
- Dimensions: 132 (width), 66 (height)

Side View (Middle):

- Suction port $Rc\frac{1}{2}$ (vane pump)
- Discharge port A $Rc\frac{3}{8}$ (vane pump)
- Discharge port B $Rc\frac{3}{8}$ (plugged at factory) (vane pump)
- PC valve
- Drain port $Rc\frac{3}{8}$
- Pressure adjusting screw
- Oil filler port for the pump case
- Dimensions: 195 (total length), 37 (height), 48 (height), 39 (height), 41 maximum (height), 10 (height), 7 (height), 126.5 (length), 9 (height), 250 (total length), 58 (height), 23.5 (height), 42 (height), 16 (height), 18 (height), 63 (height), 10 (height), 125 (diameter), 100 (width), 143 (width), 66 (height), 50 (height), 9 (height), 70 (height), 31.2 (height), 6.5 (height), 48 (height)

Rear View (Right):

- Pressure adjusting screw
- Oil filler port for the pump case
- Dimensions: 48 (height), 6.5 (height), 31.2 (height), 70 (height), 125 (diameter), 100 (width), 143 (width), 66 (height), 50 (height), 9 (height)

Mass: 13 kg

VD*-15A*R-95

Technical drawing showing three views of the pump assembly with dimensions and labels.

Labels:

- Suction port G1 O-ring boss (piston pump)
- Discharge rate adjusting screw (piston pump)
- Lock nut type 3, M10
- Suction port Rc $\frac{1}{2}$ (vane pump)
- Discharge port A Rc $\frac{3}{8}$ (vane pump)
- Discharge port B Rc $\frac{3}{8}$ (plugged at factory) (vane pump)
- Discharge port G1 O-ring boss (piston pump)
- PC valve
- Drain port Rc $\frac{3}{8}$
- Pressure adjusting screw
- Oil filler port for the pump case

Dimensions (mm):

- Front View: 23.5, 144, 168
- Side View: 37, 235, 207.2, 44.5, 70, 48, 12.7, 32 minimum, 6, 58, 57.0, 42, 147, 185, 290, 11.7, 21.15 $^{+0.003}_{-0.048}$ $\times$ 32, 4.76 $^{+0.003}_{-0.048}$ $\times$ 32, 82.55 $^{+0.06}_{-0.05}$, 19.05 $^{+0.05}_{-0.025}$
- Rear View: 39, 6.5, 31.2, 102, 110 $^{+0.3}_{-0}$, 84, 66, 105.6, R47.5, 130

Mass: 17.2 kg

Front View (Left):

- Suction port G1¼ O-ring boss (piston pump)
- Discharge rate adjusting screw (piston pump)
- Lock nut type 3, M10
- Discharge port A Rc½ (vane pump)
- Discharge port B Rc¾ (plugged at factory) (vane pump)
- Discharge port G1¼ O-ring boss (piston pump)
- Dimensions: 23.5, 172, 198

Side View (Middle):

- Drain port Rc½
- PC valve
- Discharge port B Rc¾ (plugged at factory) (vane pump)
- Dimensions: 268, 237.2, 62, 58.5, 51, 12.7, 9, 37, 73, 58, 42, 30, 27, 211, 11.2, 323

Rear View (Right):

- Pressure adjusting screw
- Oil filler port for the pump case
- Dimensions: 39, 6.5, 31.2, 121, 79, 146, 13.5_{-0.3}, 111, R60

Technical Specifications:

- Flange dimensions: $\square 6.3^{+0.025}_0 \times 35$
- Bore dimensions: $\phi 101.6^{+0.05}_0$, $\phi 172$, $25.08^{+0.23}_{-0}$, $\phi 22.2^{+0.025}_0$

Mass: 29 kg

Mass: 29 kg