VD series Dual Pump

Nomenclature

1 Model No.
VD: VD series Dual Pump

2 Vane pump capacity code
1: DS11P
2: DS12P
3: DS13P
4: DS14P

3 Piston pump capacity code
8: V8 (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

Vane Pump Specifications

<table>
<thead>
<tr>
<th>Model code</th>
<th>[Conditions] Input rotational speed: 1800 min⁻¹, Fluid used: equivalent to ISO VG32, Fluid temperature: 40°C</th>
<th>Discharge rate L/min</th>
<th>Shaft input kW</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.4 MPa (4 kgf/cm²)</td>
<td>3 MPa (30 kgf/cm²)</td>
<td>5 MPa (50 kgf/cm²)</td>
</tr>
<tr>
<td>DS11P</td>
<td>5.0</td>
<td>4.5</td>
<td>4.1</td>
</tr>
<tr>
<td>DS12P</td>
<td>7.7</td>
<td>7.2</td>
<td>6.7</td>
</tr>
<tr>
<td>DS13P</td>
<td>12.6</td>
<td>11.8</td>
<td>11.5</td>
</tr>
<tr>
<td>DS14P</td>
<td>22.1</td>
<td>21.2</td>
<td>20.5</td>
</tr>
</tbody>
</table>

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).

Refer to Page A-8 for other detailed specifications.
Before using the product, please check the guide pages at the front of this catalog.

http://www.daikinpmc.com/en/

For latest information, PDF catalogs and operation manuals

External dimension diagram

**VD×-8A1R-30**
- Suction port G¾ (piston pump)
- Discharge port A Rc½ (vane pump)
- Mass: 13 kg

**VD×-15A×R-95**
- Suction port G1 (piston pump)
- Discharge rate adjusting screw (piston pump)
- Lock nut type 3, M10
- Pressure adjusting screw
- Mass: 17.2 kg

**VD×-38A×R-95**
- Lock nut type 3, M10
- Discharge rate adjusting screw (piston pump)
- Mass: 29 kg

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Dimensions and notes in mm.