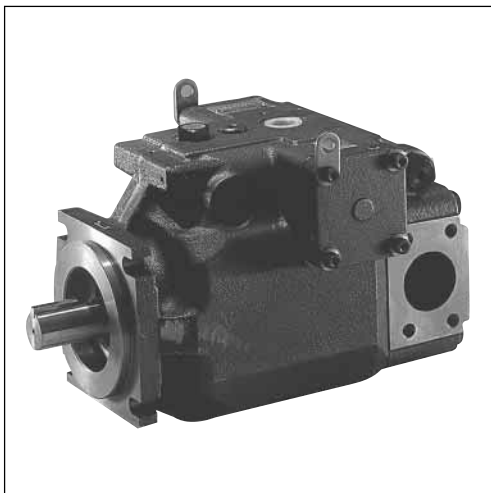


VZ series piston pump



Features

- **High density of displacement**
The adoption of a cradle swash plate makes it possible to cope with both compactness and high pressure. Accordingly, the output per an unit weight has been increased.
- **Low operation noise**
The increased stiffness of the swash structure and the housing shape, which has been developed by the latest measurement and analysis technologies, make the operation noise reduce extremely.
- **High efficiency**
The spherical valve plate and the suitable oil pressure balance enable it to keep a steady state under the broad range of the operative conditions, resulting in high efficiency.
- **Long life**
The adoption of the spherical valve plate with a superior abrasion resistance makes it possible to strengthen anti-contaminant characteristics.

Nomenclature

● Pressure compensator control

VZ *** A * R X - 10 **

1 2 3 4 7 10 11 12

● Combination control

VZ *** C * * R * * X — 10

1 2 3 5 6 7 8 9 10 11

(1) Model No.

VZ : VZ series piston pump

(2) Displacement volume

50 : 50.2cm³/rev

63 : 63.0cm³/rev

80 : 79.6cm³/rev

100 : 104.6cm³/rev

130 : 135.9cm³/rev

(3) Control method I (refer to page 1 for the models applied)

A : Pressure compensator control

C : Combination control

(4) Pressure adjusting range

1 : 1.5~7MPa {15~70kgf/cm²}

2 : 1.5~14MPa {15~140kgf/cm²}

3 : 3.5~21MPa {35~210kgf/cm²}

4 : 3.5~28MPa {35~280kgf/cm²} ★1

(5) Low pressure adjusting range

1 : 1.5~7MPa {15~70kgf/cm²}

2 : 1.5~14MPa {15~140kgf/cm²}

3 : 3.5~21MPa {35~210kgf/cm²}

4 : 3.5~28MPa {35~280kgf/cm²} ★1

(6) High pressure adjusting range

1 : 1.5~7MPa {15~70kgf/cm²}

2 : 1.5~14MPa {15~140kgf/cm²}

3 : 3.5~21MPa {35~210kgf/cm²}

4 : 3.5~28MPa {35~280kgf/cm²} ★1

(7) Direction of the rotation (from the view of the shaft end)

R : Clockwise (rightward)

(8) Control method II

H : Self pressure method

J : Solenoid operated valve method

(9) Voltage mark for the solenoid operated valve

< Only be applied for the case that the control method II is J >

A : AC100V (50/60Hz), AC110V (60Hz)

B : AC200V (50/60Hz), AC220V (60Hz)

P : DC24V

(10) Piping direction X : Side port

(11) Design number (design number is subject to change)

(12) Control method III

No mark : Without remote control system

RC : With remote control system ★2

<Only be applied for the case that the control method I is A>

Note) ★1 The 4th pattern of the pressure adjusting range (3.5~28MPa {35~280kg/cm²}) is only applied for VZ50, 63, 80, 100.

★2 The pressure adjusting range with remote control system is the 4th pattern only (but 3rd pattern for VZ130).

Specifications

Model No.	Theoretical displacement cm ³ /rev	Operating pressure MPa {kgf/cm ² }		Permissible rotation speed min ⁻¹	Displacement adjusting range 1800min ⁻¹ L/min	Weight (control method : A) kg
		Max.	Rated			
VZ50	50.2	28 {280}	25 {250}	500~1800	0~90	40
VZ63	63.0	28 {280}	25 {250}	500~1800	0~113	47
VZ80	79.6	28 {280}	25 {250}	500~1800	0~143	55
VZ100	104.6	28 {280}	25 {250}	500~1800	0~188	75
VZ130	135.9	21 {210}	17.5 {175}	500~1800	0~244	105