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VZ series Piston Pump

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Features

- **Highly intensified output**
Adopting the cradle swash plate has achieved high pressure in a compact and light-weight body, resulting in increased output per unit weight.
- **Low noise**
While increasing the rigidity of the swash plate structure, the noise level has been substantially reduced thanks to the housing geometry resulting from the state-of-the-art measurement and analysis technologies.
- **High efficiency**
The spherical valve plate and optimum hydraulic balance realize stable and highly efficient operation over a broad range of operation conditions.
- **Long life**
Adopting the spherical valve plate with its superior abrasion resistance has improved the 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 *1

2 Pump capacity

50: 50.2 cm³/rev
 63: 63.0 cm³/rev
 80: 79.6 cm³/rev
 100: 104.6 cm³/rev
 130: 135.9 cm³/rev

3 Control method I (Refer to Page A-4 for the applicable models.)

A: Pressure compensator control
 C: Combination control *2

4 Pressure adjustment range

1: 1.5 to 7 MPa {15 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}
 4: 3.5 to 28 MPa {35 to 280 kgf/cm²} *3

5 Low pressure adjustment range

1: 1.5 to 7 MPa {15 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}
 4: 3.5 to 28 MPa {35 to 280 kgf/cm²} *3

6 High pressure adjustment range

1: 1.5 to 7 MPa {15 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}
 4: 3.5 to 28 MPa {35 to 280 kgf/cm²} *3

7 Direction of rotation, when viewed from the shaft end

R: Clockwise (rightward)

8 Control method II

H: Pressure feedback method
 J: Solenoid operated method

9 Voltage code for the solenoid valve

<Applied only when control method II is J>
 A: AC 100 V (50/60 Hz), AC 110 V (60 Hz)
 B: AC 200 V (50/60 Hz), AC 220 V (60 Hz)
 P: DC 12 V

10 Piping direction

X: Side port

11 Design No. (The design No. is subject to change)

12 Control method III

No designation: Without remote control system
 RC: With remote control system *4
 <Applied only when control method I is A>

Note: *1 Only petroleum-based hydraulic fluids are acceptable for the VZ series.

*2 The combination control is not applicable to VZ130.

*3 The 4th pattern of the pressure adjustment range (3.5 to 28 MPa {35 to 280 kgf/cm²}) applies only to VZ50, VZ63, VZ80, and VZ100.

*4 The pressure adjustment range with a remote control system is the 4th pattern only (but the 3rd pattern for VZ130).

Note: JR-G (T) 02, JRP-G02 and CR-G02P are recommended for the remote control system's relief valve.

If the vent port is blocked, the pressure compensation structure does not work and the pump operates at a fixed pressure.

● Foot supports and piping flanges are not provided with the pump. Order them separately as required by referring to Pages S-2 to S-4.

Models and pressure adjustment range table

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● Pressure compensator control

4 Pressure adjustment range

Code	Pressure adjustment range MPa {kgf/cm ² }	Without remote control system					With remote control system				
		VZ50	VZ63	VZ80	VZ100	VZ130	VZ50	VZ63	VZ80	VZ100	VZ130
1	1.5 to 7 { 15 to 70}	✓	✓	✓	✓	✓	–	–	–	–	–
2	1.5 to 14 { 15 to 140}	✓	✓	✓	✓	✓	–	–	–	–	–
3	2.0 to 21 { 20 to 210}	–	–	–	–	–	–	–	–	–	✓
3	3.5 to 21 {135 to 210}	✓	✓	✓	✓	✓	–	–	–	–	–
4	2.0 to 28 { 20 to 280}	–	–	–	–	–	✓	✓	✓	✓	–
4	3.5 to 28 { 35 to 280}	✓	✓	✓	✓	–	–	–	–	–	–

● Combination control

5 Low pressure adjustment range

Code	Pressure adjustment range MPa {kgf/cm ² }	Without remote control system			
		VZ50	VZ63	VZ80	VZ100
1	1.5 to 7 {15 to 70}	✓	✓	✓	✓
2	1.5 to 14 {15 to 140}	✓	✓	✓	✓
3	3.5 to 21 {35 to 210}	✓	✓	✓	✓
4	3.5 to 28 {35 to 280}	✓	✓	✓	✓

6 High pressure adjustment range

Code	Pressure adjustment range MPa {kgf/cm ² }	Without remote control system							
		Pressure feedback method				Solenoid operated method			
		VZ50	VZ63	VZ80	VZ100	VZ50	VZ63	VZ80	VZ100
1	1.5 to 7 {15 to 70}	✓	✓	✓	✓	✓	✓	✓	✓
2	1.5 to 14 {15 to 140}	✓	✓	✓	✓	✓	✓	✓	✓
3	3.5 to 21 {35 to 210}	✓	✓	✓	✓	✓	✓	✓	✓
4	3.5 to 28 {35 to 280}	✓	✓	✓	✓	✓	✓	✓	✓

Specifications

Model No.	Theoretical discharge rate cm ³ /rev	Maximum operating pressure MPa {kgf/cm ² }	Permissible rotational speed min ⁻¹	Discharge rate adjustment range 1800min ⁻¹ L/min	Mass (Control method A) kg
VZ50	50.2	28 {280}	500 to 1800	0 to 90	40
VZ63	63.0	28 {280}	500 to 1800	0 to 113	47
VZ80	79.6	28 {280}	500 to 1800	0 to 143	55
VZ100	104.6	28 {280}	500 to 1800	0 to 188	75
VZ130	135.9	21 {210}	500 to 1800	0 to 244	105

- Foot supports and piping flanges are not provided with the pump. Order them separately as required by referring to Pages S-2 to S-4.

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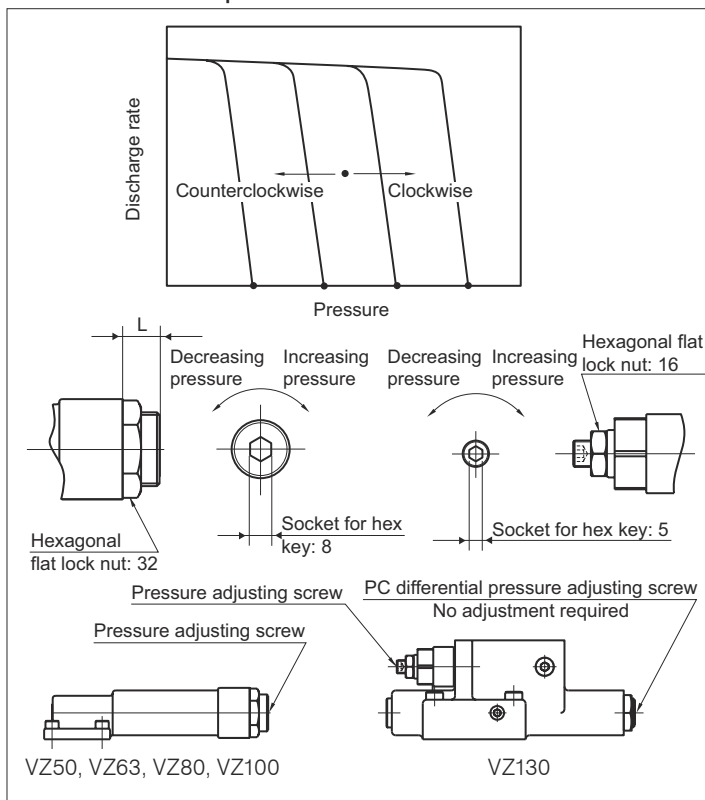
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Pressure adjustment methods

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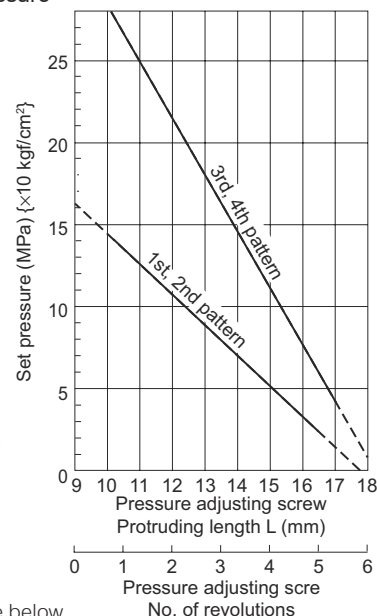
● Pressure compensator control



Variation of discharge pressure

VZ50, VZ63
VZ80, VZ100

As shown in the graph to the right

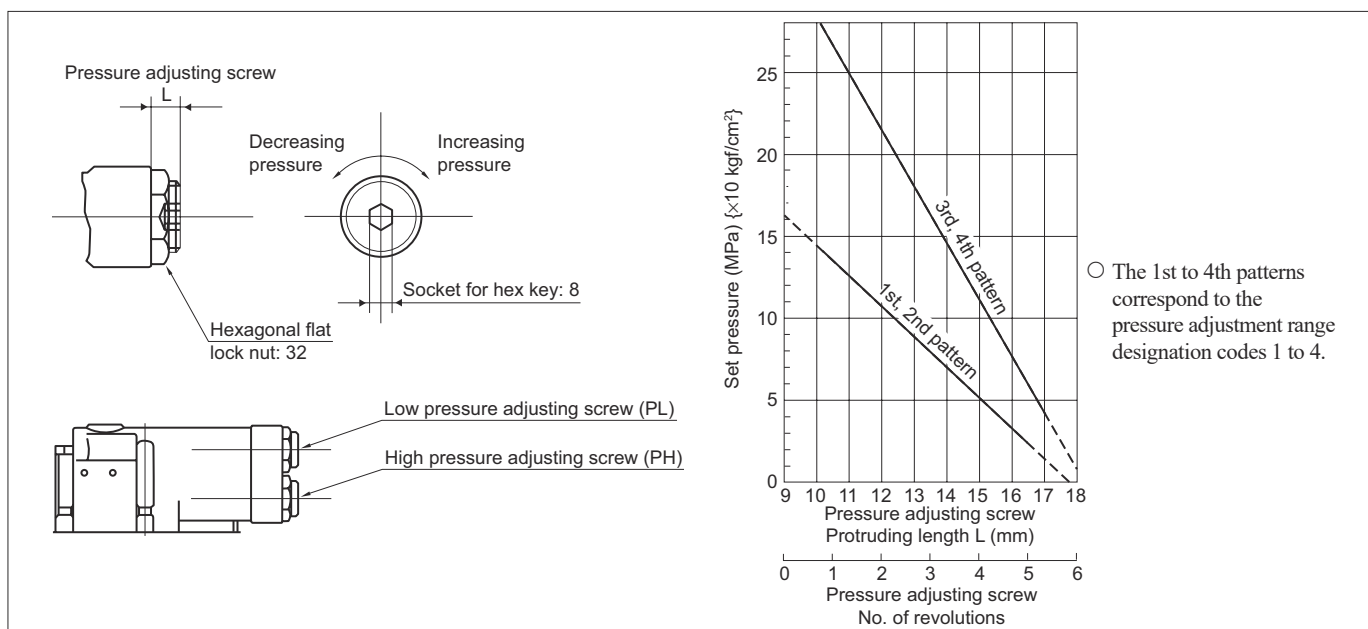


○ The 1st to 4th patterns correspond to the pressure adjustment range designation codes 1 to 4.

VZ130: As shown in the table below

Pressure adjustment range code	Discharge pressure variation/one revolution of the pressure adjusting screw
1	2.5 MPa/revolution
2	4.6 MPa/revolution
3	7.9 MPa/revolution

● Combination control

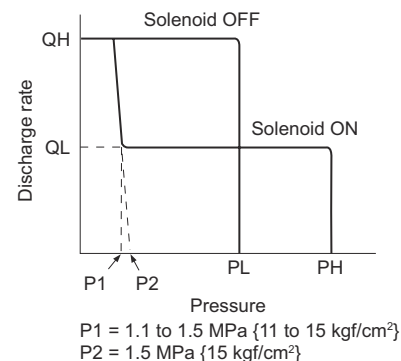


○ The 1st to 4th patterns correspond to the pressure adjustment range designation codes 1 to 4.

Pressure adjustment range [Common to the pressure feedback method (CH) and solenoid operated method (CJ)]

Pressure type	Low pressure adjustment range	High pressure adjustment range
1	1.5 to 7 MPa {15 to 70 kgf/cm ² }	1.5 to 7 MPa {15 to 70 kgf/cm ² }
2	1.5 to 14 MPa {15 to 140 kgf/cm ² }	1.5 to 14 MPa {15 to 140 kgf/cm ² }
3	3.5 to 21 MPa {35 to 210 kgf/cm ² }	3.5 to 21 MPa {35 to 210 kgf/cm ² }
4	3.5 to 28 MPa {35 to 280 kgf/cm ² }	3.5 to 28 MPa {35 to 280 kgf/cm ² }

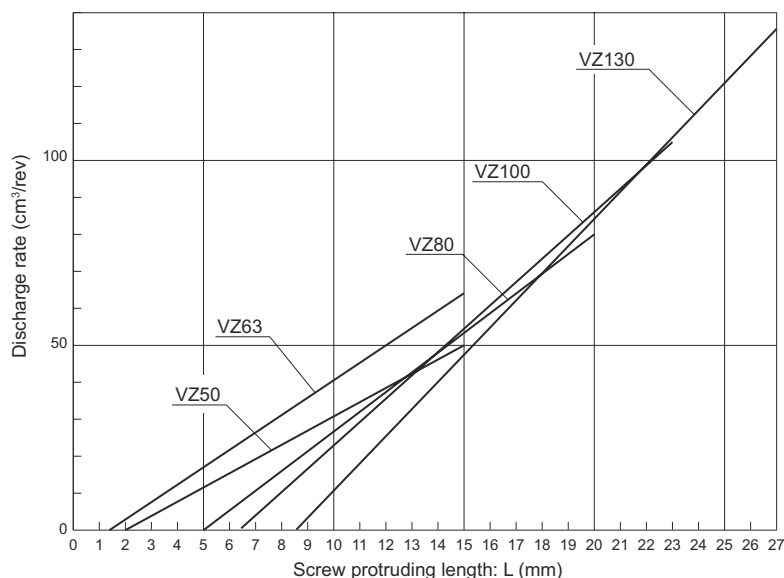
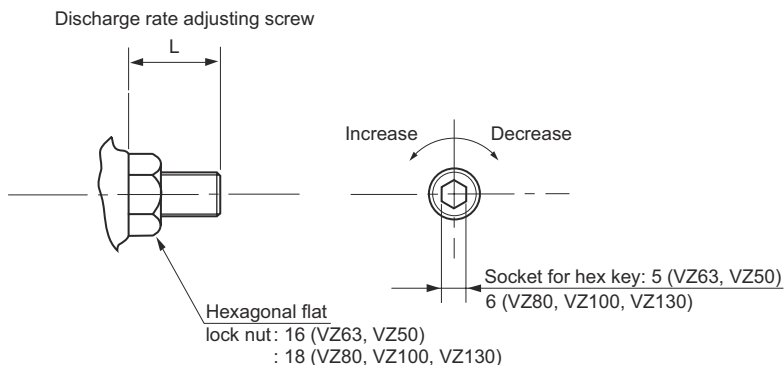
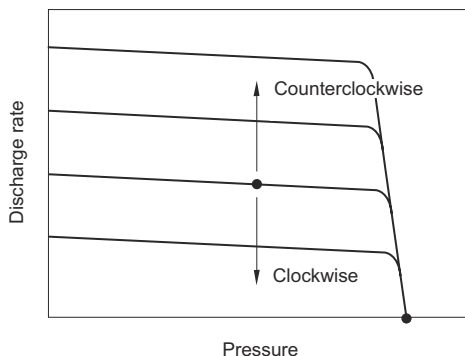
● The exact characteristics of the solenoid operated type combination control will be as shown to the right. To be more specific, even if the solenoid is turned on to switch to high pressure operation the discharge rate will not switch to the low quantity range (QL) until the pressure in the circuit reaches the pressure P1 that overcomes the bias spring force that inclines the swash plate.



Relationship between the protruding length of the discharge rate adjusting screw and the discharge rate (pressure compensator control)

The maximum discharge rate can be set to the desired value by turning the discharge rate adjusting screw at the side of the housing.

- Turning the adjusting screw clockwise decreases the discharge rate.
- Turning the adjusting screw counterclockwise increases the discharge rate.



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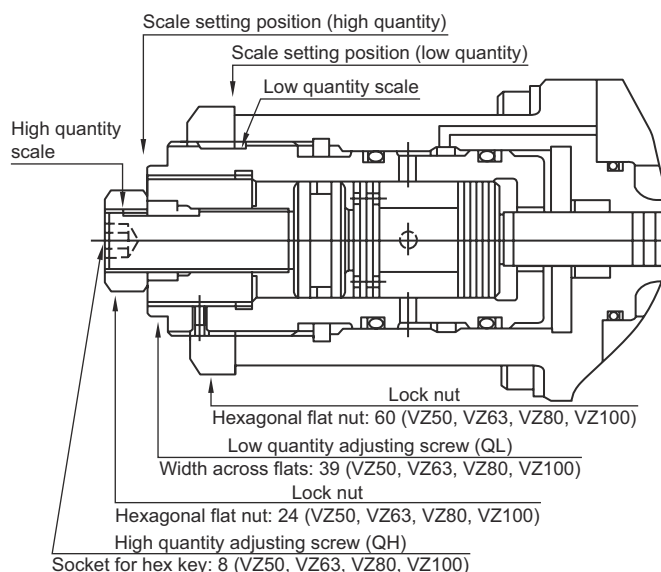
Relationship between the protruding length of the discharge rate adjusting screw and the discharge rate (combination control)

- The discharge rate adjusting screws are provided with scales as shown below.
- Turning the adjusting screw clockwise decreases the discharge rate.
- Turning the adjusting screw counterclockwise increases the discharge rate.

Pump model	Scale °	
	Low quantity adjusting screw	High quantity adjusting screw
VZ50C	0 to 10	0 to 17
VZ63C	0 to 10	0 to 17
VZ80C	0 to 10	0 to 17
VZ100C	0 to 10	0 to 17

(Scale graduation: 1°)

Note: The high quantity adjustment range may be restricted due to the setting for the low quantity range.
See the graphs on Page A-49 for details.



Adjust the discharge rate according to the relevant discharge rate adjustment graph by following the procedure below.

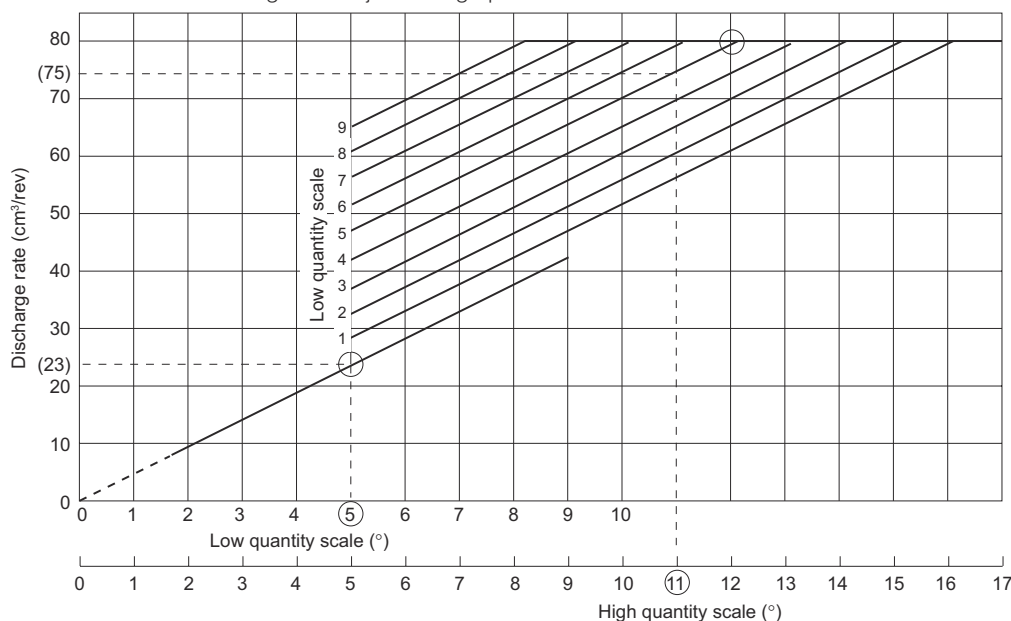
- For the low quantity range, read the value for the desired discharge rate on the graph and turn the low quantity adjusting screw to set the scale position to the read value.
- For the high quantity range, read the value for the desired discharge rate on the line corresponding to the value for the low quantity range on the graph and turn the high quantity adjusting screw to set the scale position to the read value.
- When adjusting only the high quantity range, loosen the lock nut and adjust as described above.
- When adjusting only the low quantity range, loosen the lock nut on the high quantity adjustment screw and adjust the setting for the low quantity range as described above while holding the high quantity adjusting screw in place with a hex key.

Example of adjustment

When adjusting the discharge rate of VZ80C to 23 cm³/rev for the low quantity range (QL) and 75 cm³/rev for the high quantity range (QH)

- (1) From the discharge rate adjustment graph for VZ80C in combination control, first read the value for QL = 23 cm³/rev, which is 5°, and adjust the low quantity adjusting screw accordingly.
- (2) Then, read the value for QH = 75 cm³/rev on the line for 5° of QL, which is 11°, and adjust the high quantity adjusting screw accordingly.

Discharge rate adjustment graph for VZ80C in combination control



- The setting values indicated above may change slightly depending on the conditions of use (fluid temperature, hydraulic fluid type, etc.)
For final fine adjustment, repeat the adjustment described above and achieve the setting appropriate for the actual application.

■ Factory setting of discharge rate

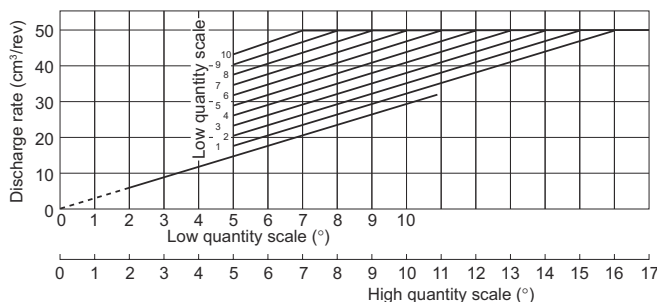
The discharge rate in the low quantity range is generally factory adjusted to the maximum discharge rate and the discharge rate for the low quantity range is generally factory adjusted as follows.

Pump model	Low quantity (QL) setting
VZ50C	Scale position: 5°
VZ63C	Scale position: 4°
VZ80C	Scale position: 4°
VZ100C	Scale position: 4°

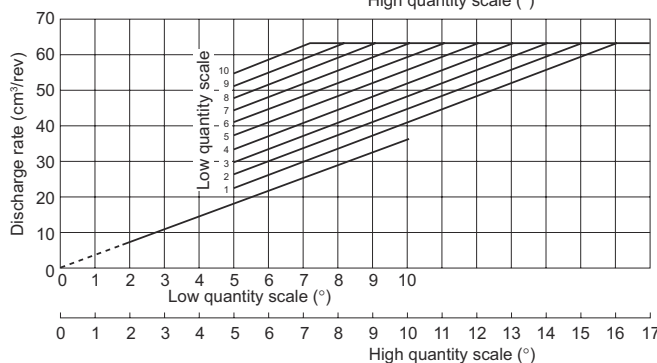
Discharge rate adjustment graph in combination control

Linear adjustment of the discharge rate for the low quantity range is not possible below the adjustment range (section indicated by the dashed line).

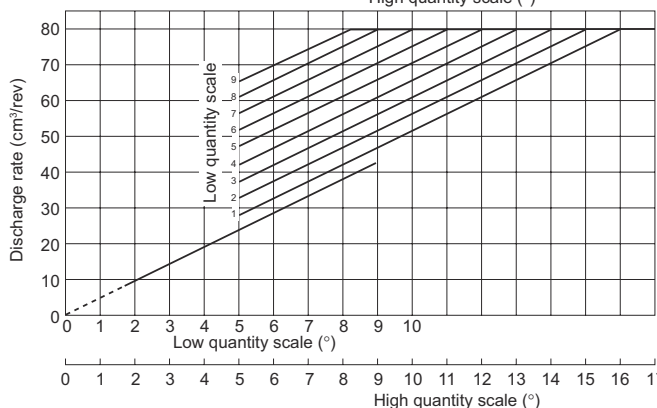
VZ50C



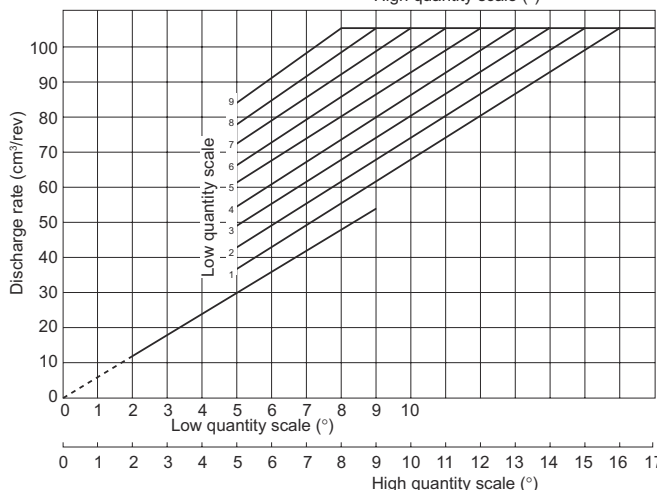
VZ63C



VZ80C



VZ100C



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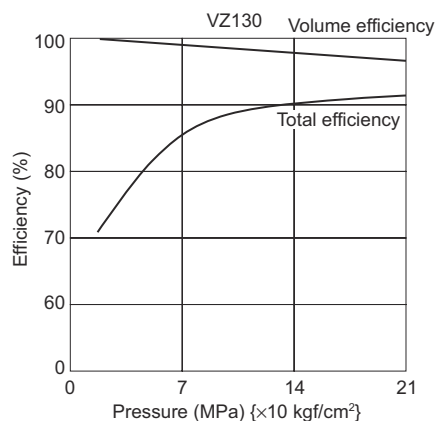
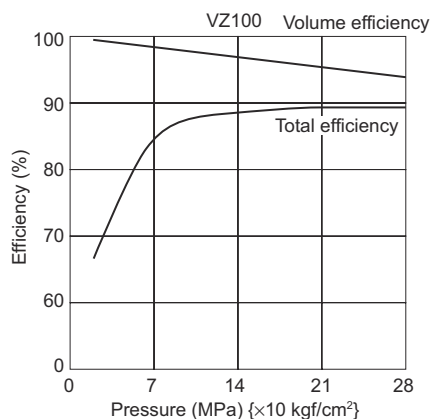
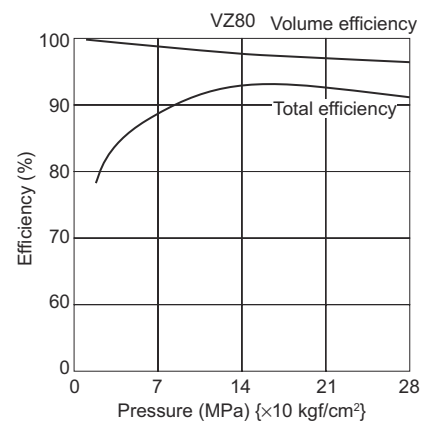
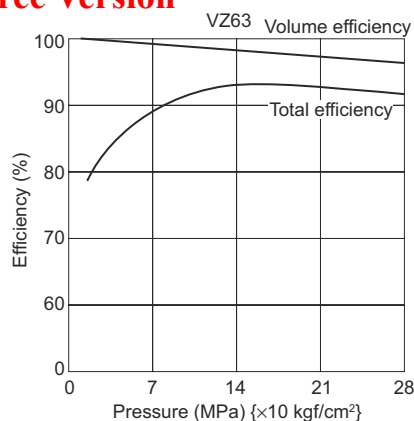
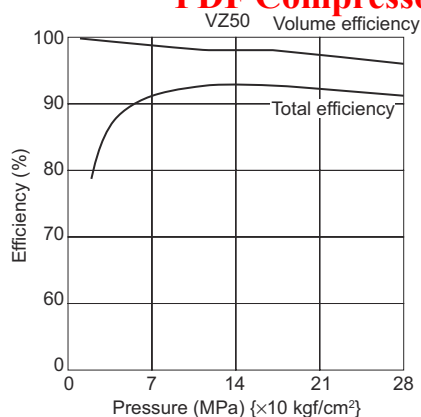
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General performance (1800 min⁻¹)

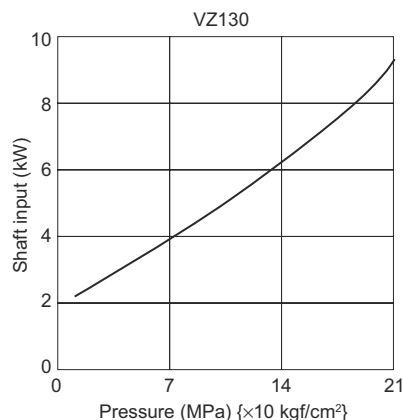
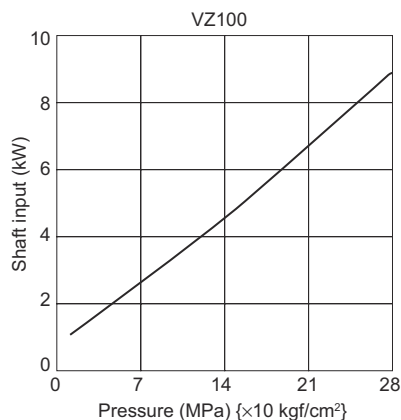
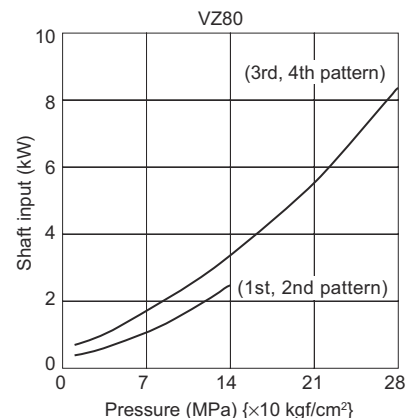
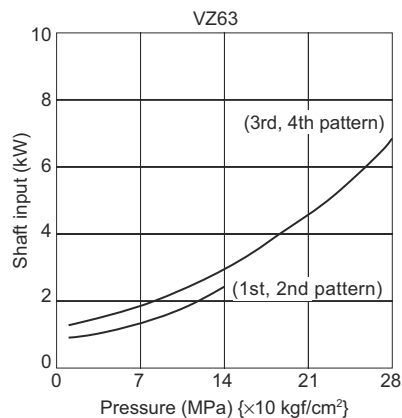
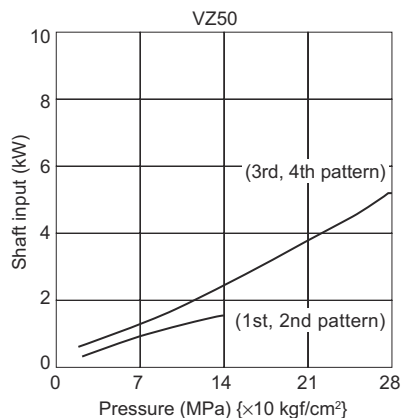
Discharge rate setting: maximum, Oil used: ISO VG32, Oil temperature: 50°C

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Note: The efficiency varies depending on the discharge rate setting. When selecting the motor capacity, refer to the shaft input characteristics on Page A-52.

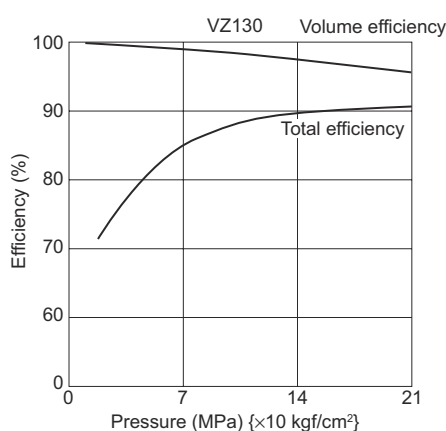
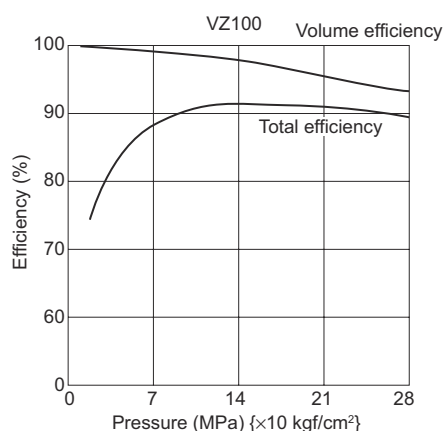
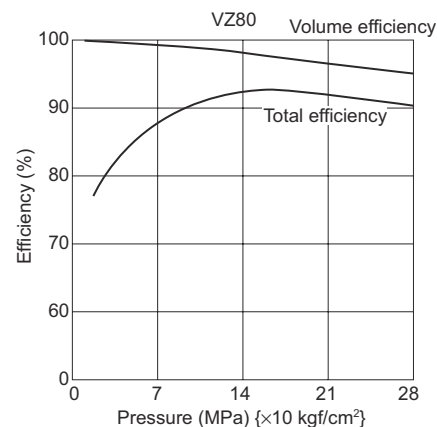
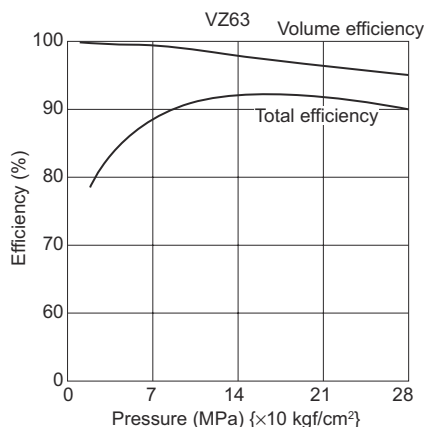
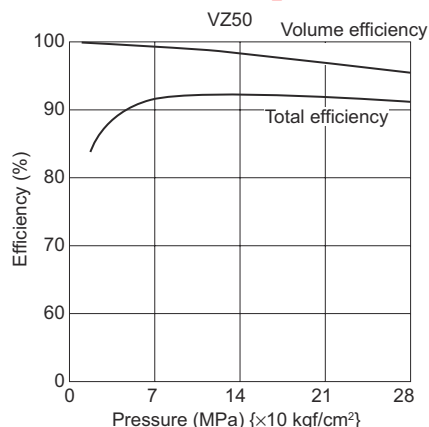
Shaft input characteristics at full cutoff (1800 min⁻¹)



General performance (1500 min⁻¹)

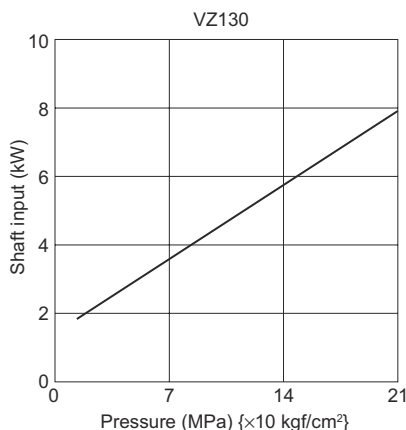
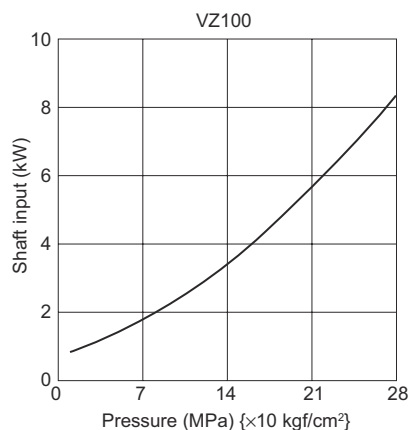
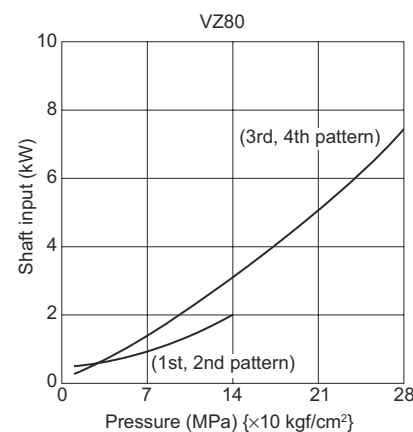
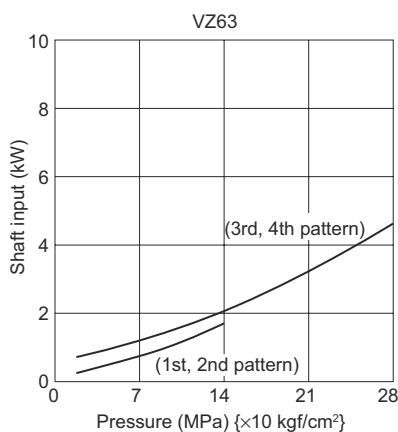
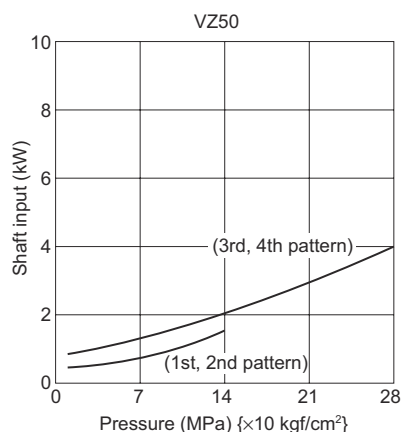
Discharge rate setting: maximum, Oil used: ISO VG32, Oil temperature: 50°C

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Note: The efficiency varies depending on the discharge rate setting. When selecting the motor capacity, refer to the shaft input characteristics on Page A-53.

Shaft input characteristics at full cutoff (1500 min⁻¹)



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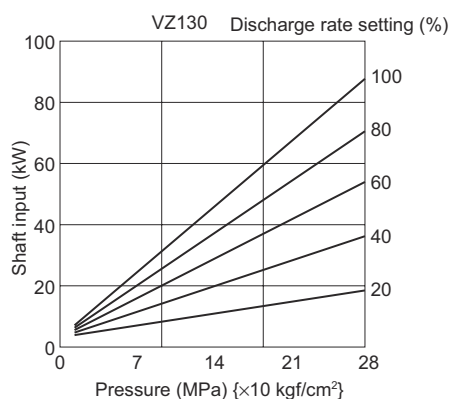
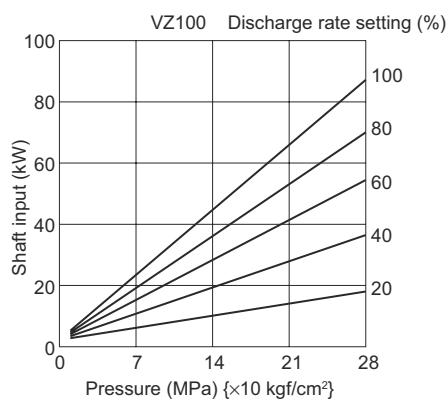
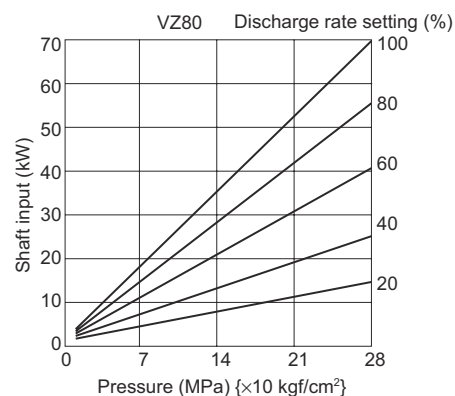
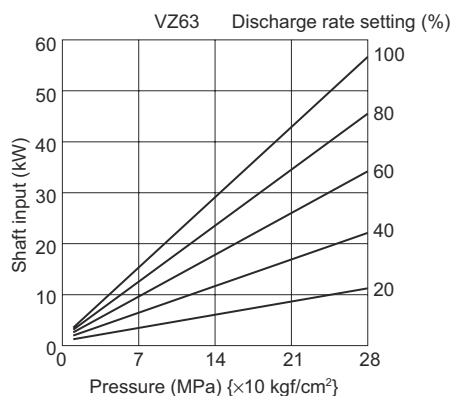
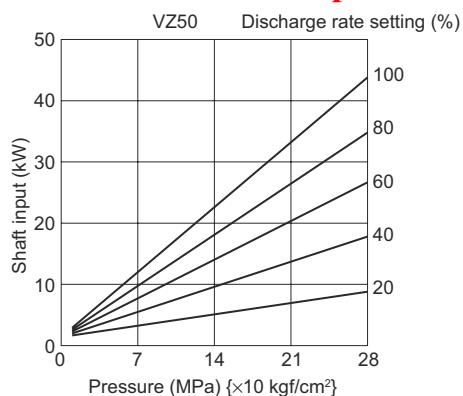
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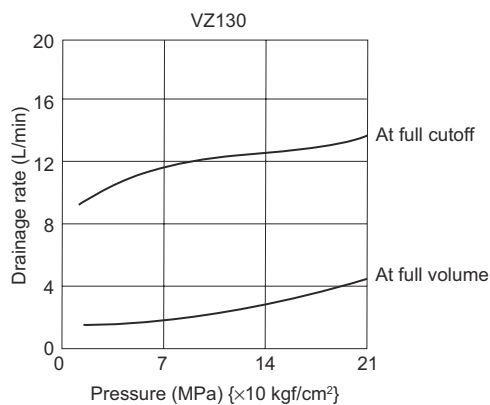
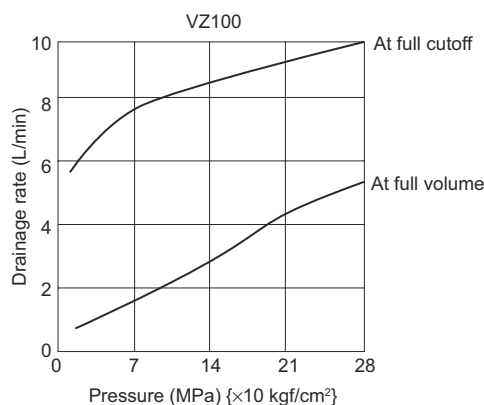
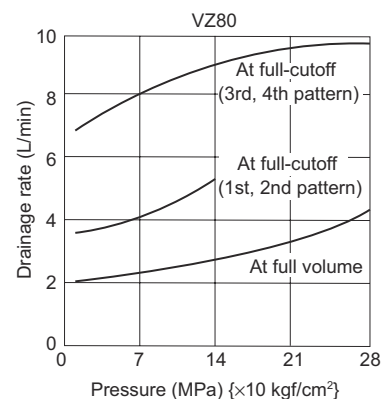
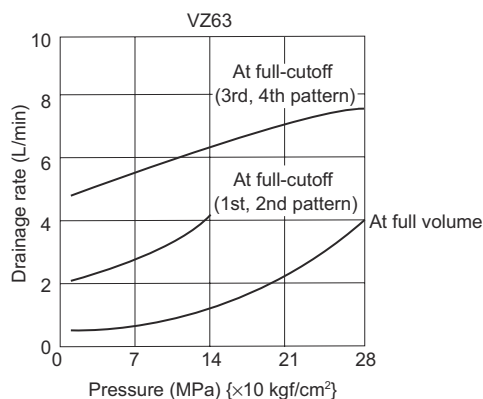
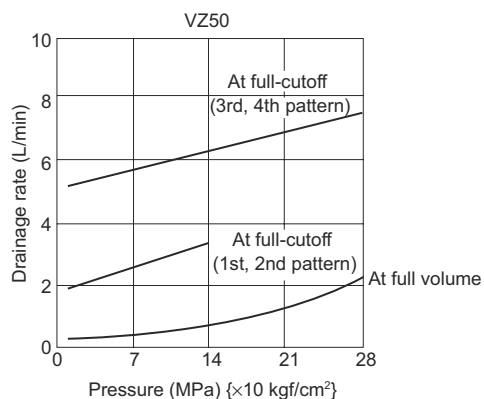
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Shaft input characteristics (1800 min⁻¹)

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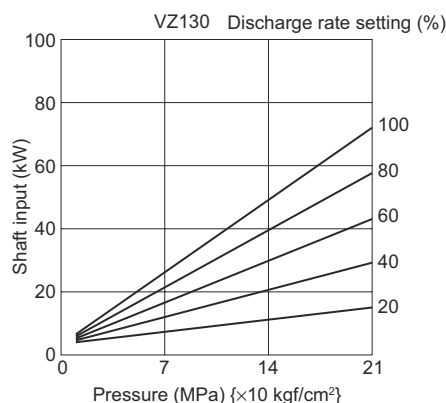
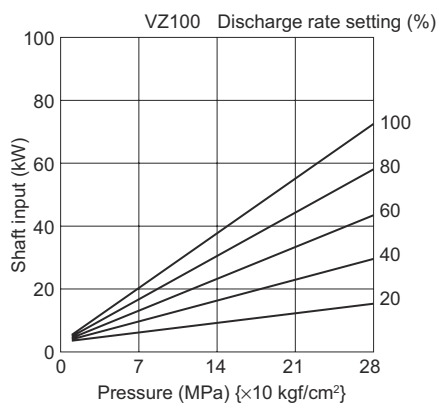
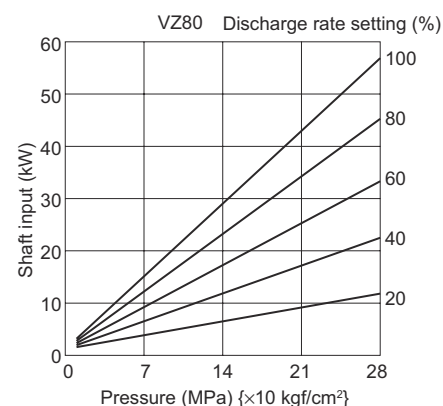
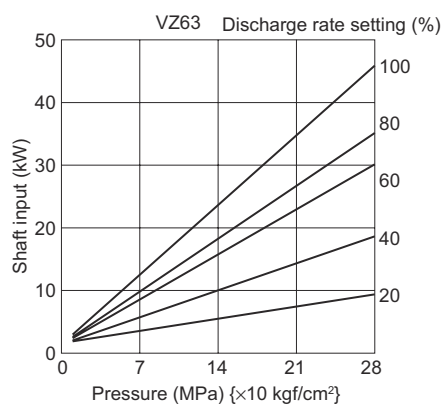
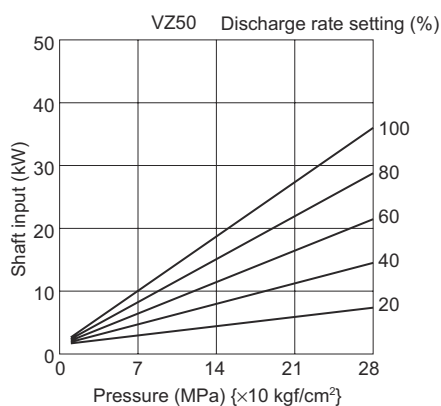


Drainage volume characteristics (1800 min⁻¹)

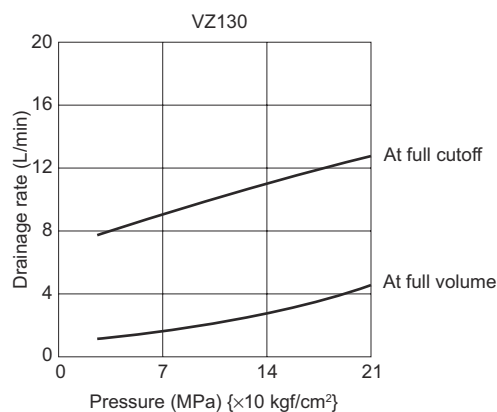
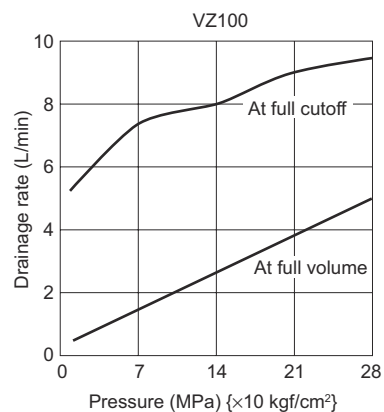
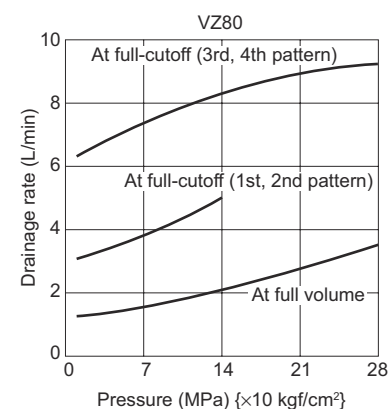
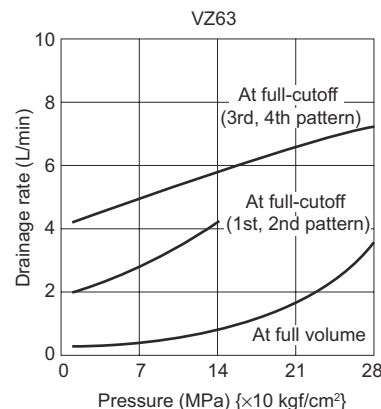
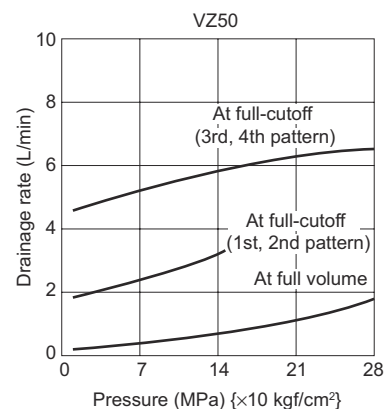


Shaft input characteristics (1500 min⁻¹)

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Drainage volume characteristics (1500 min⁻¹)

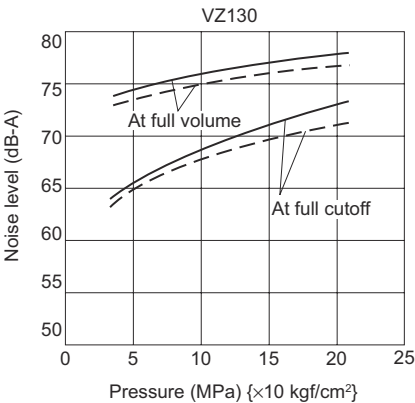
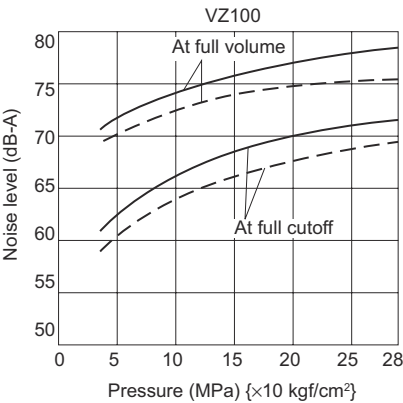
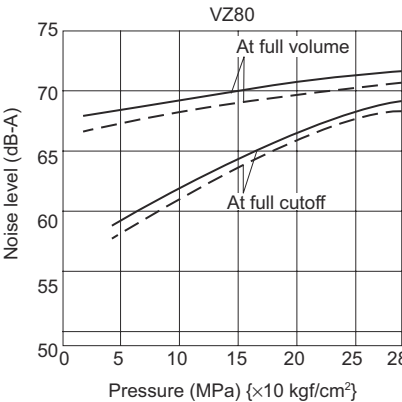
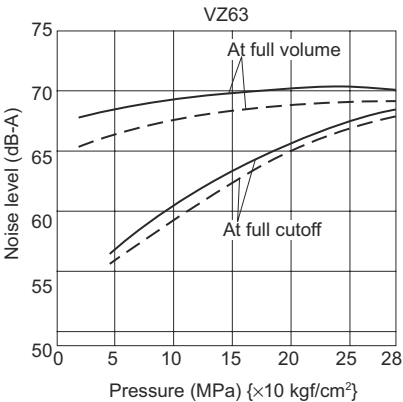
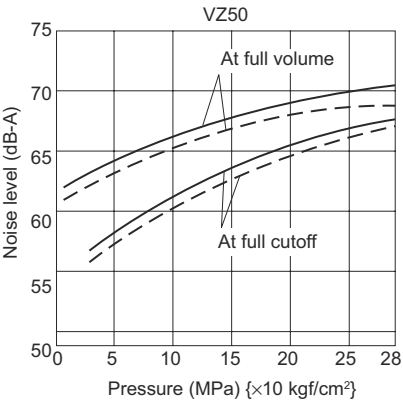


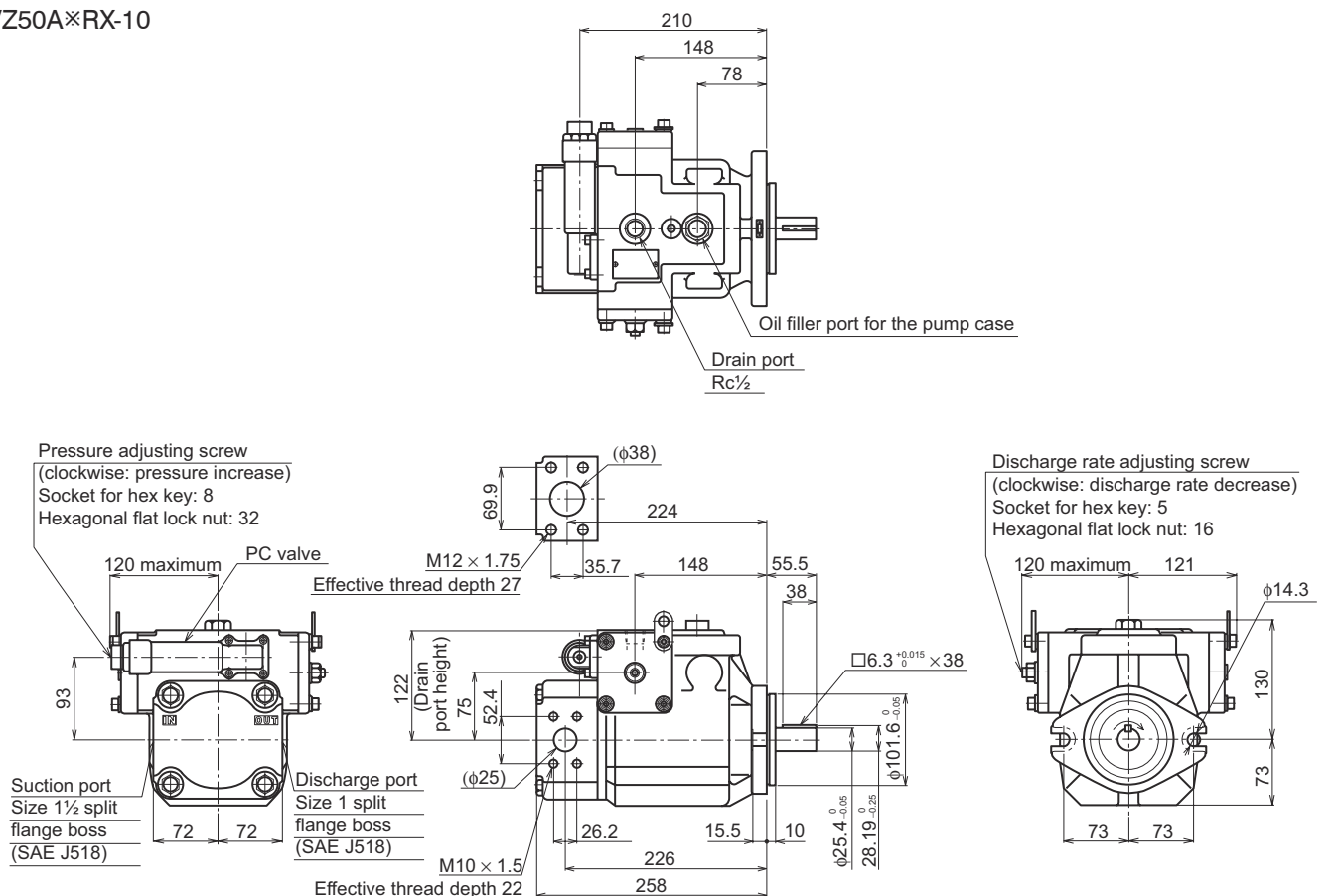
Noise characteristics (JIS B 8350, measuring position: 1 m from pump front)

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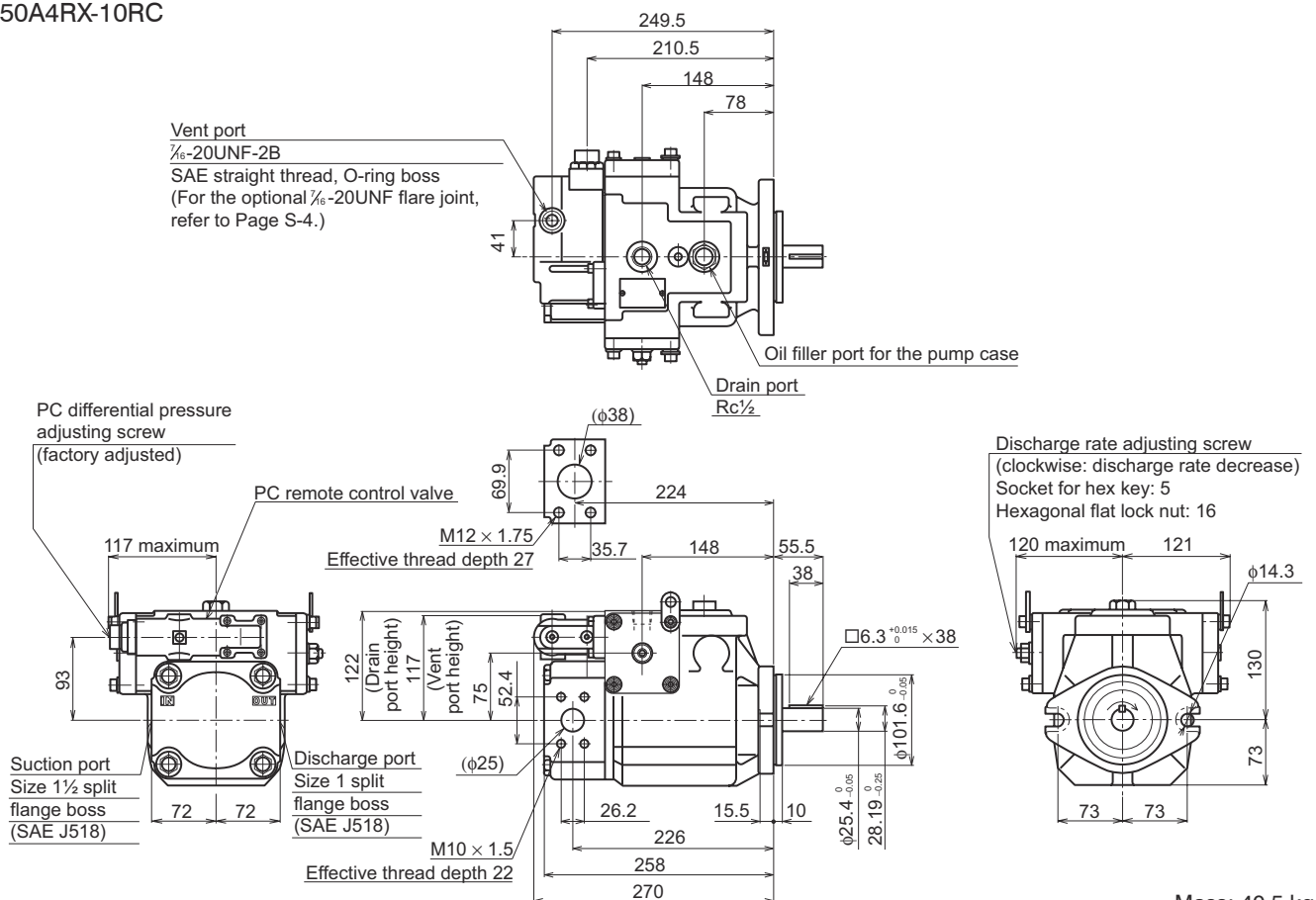
Input rotational speed	Fluid used	Oil temperature
1800 min ⁻¹ 1500 min ⁻¹	Equivalent to ISO VG32	50°C

----- 1500 min⁻¹
————— 1800 min⁻¹



External dimension diagram
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VZ50A×RX-10


Mass: 40 kg

VZ50A4RX-10RC


Mass: 40.5 kg

Contact Details

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Internet

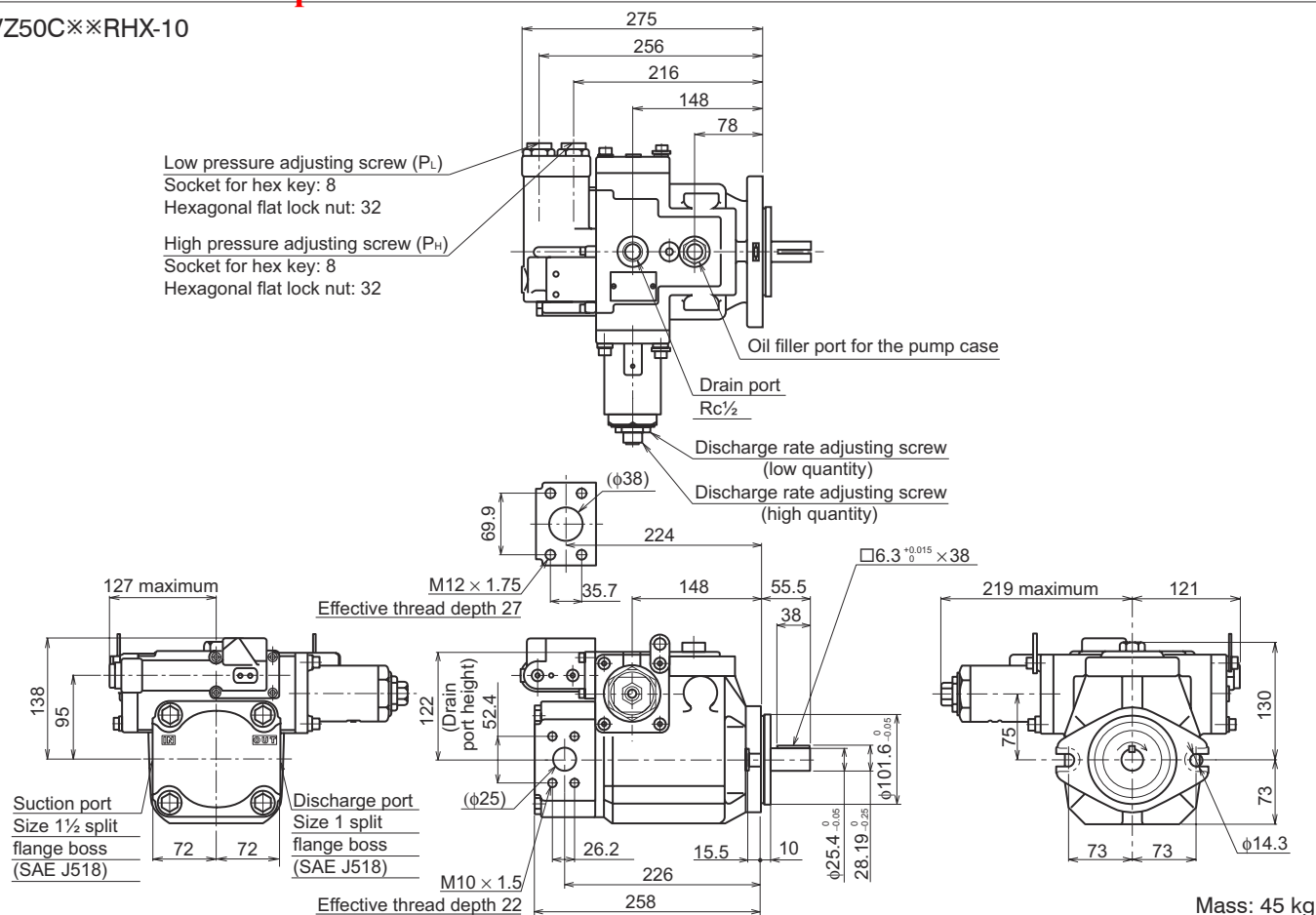
<https://www.daikinpmc.com/en/>

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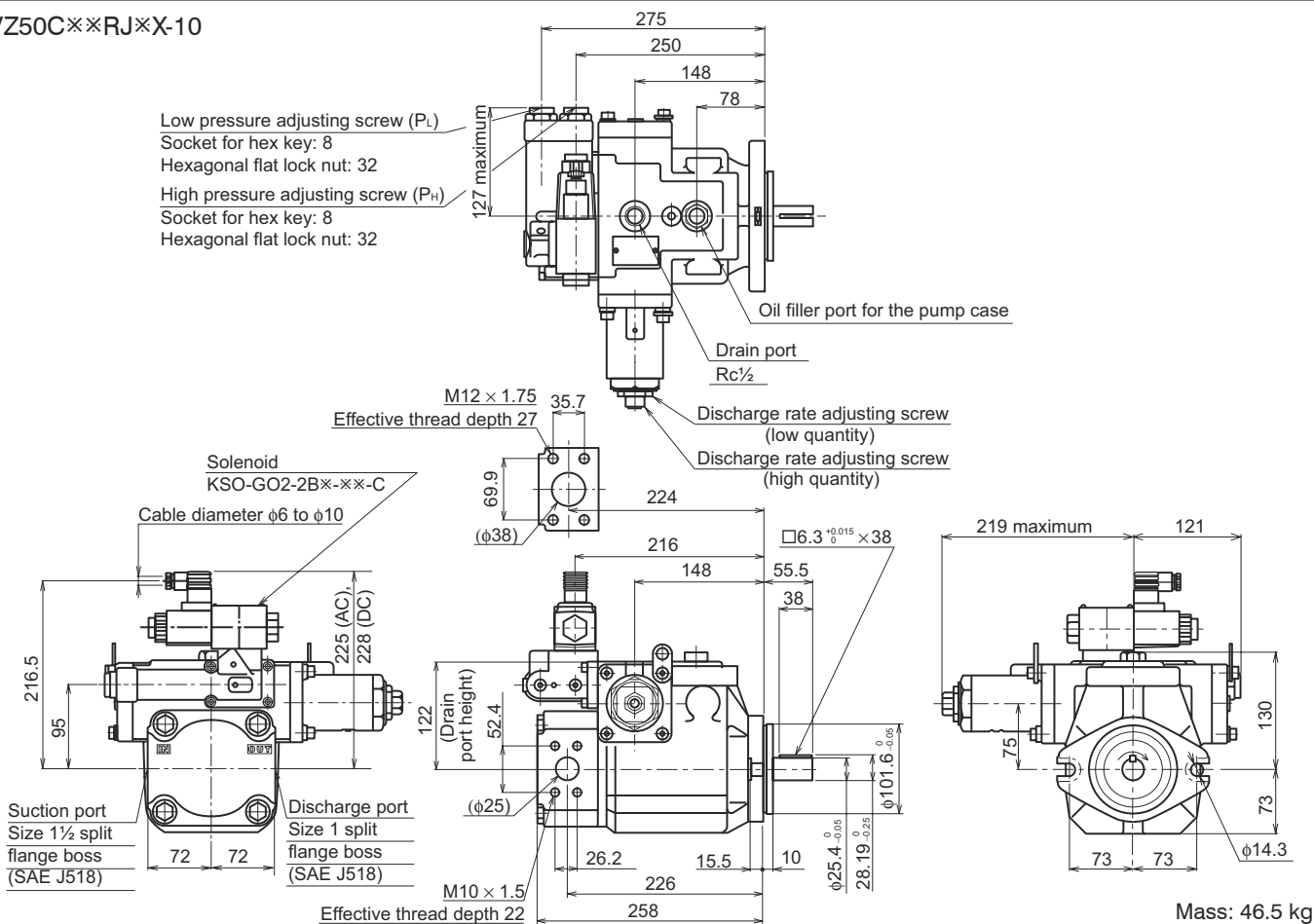
External dimension diagram

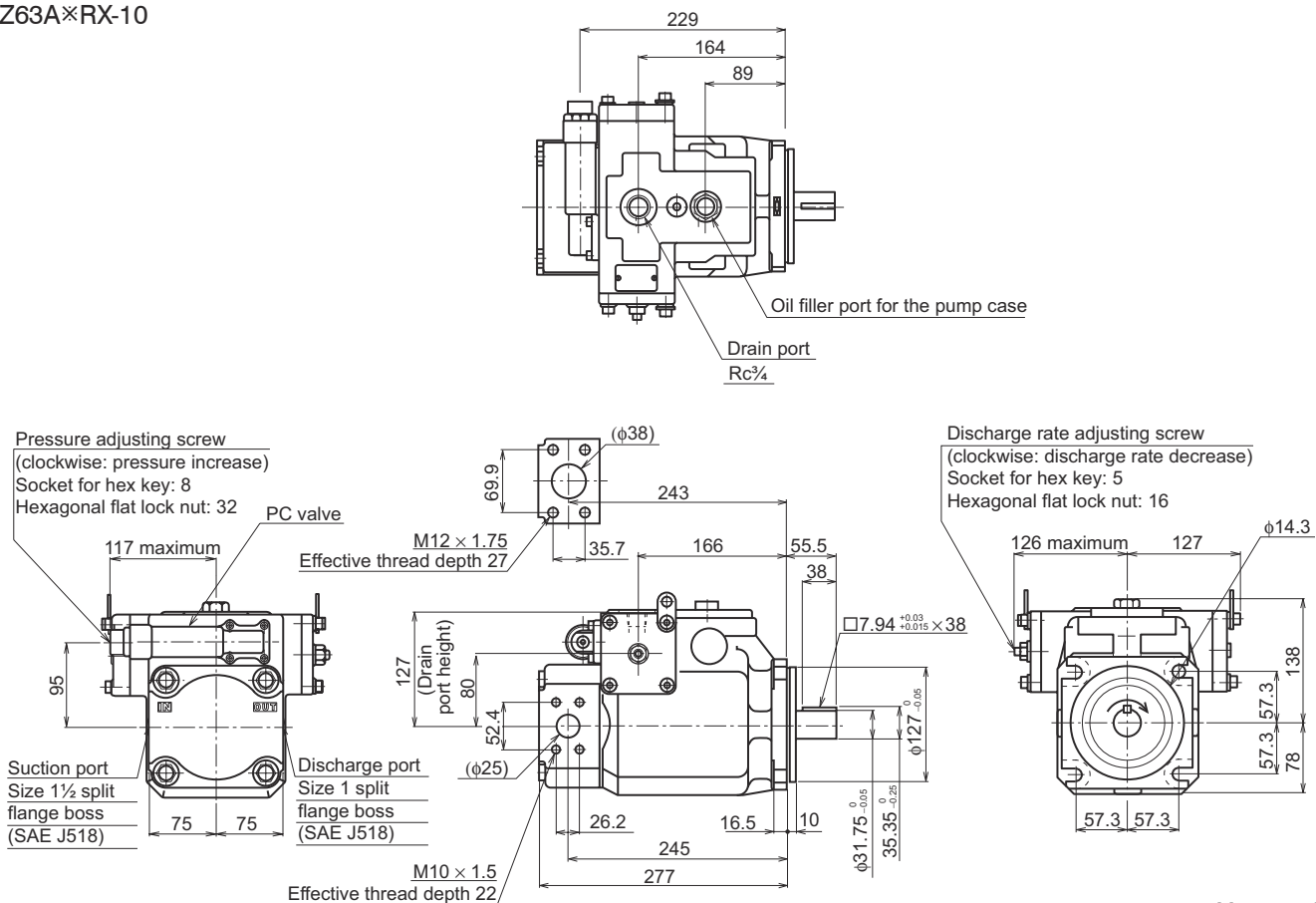
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VZ50C※RHX-10

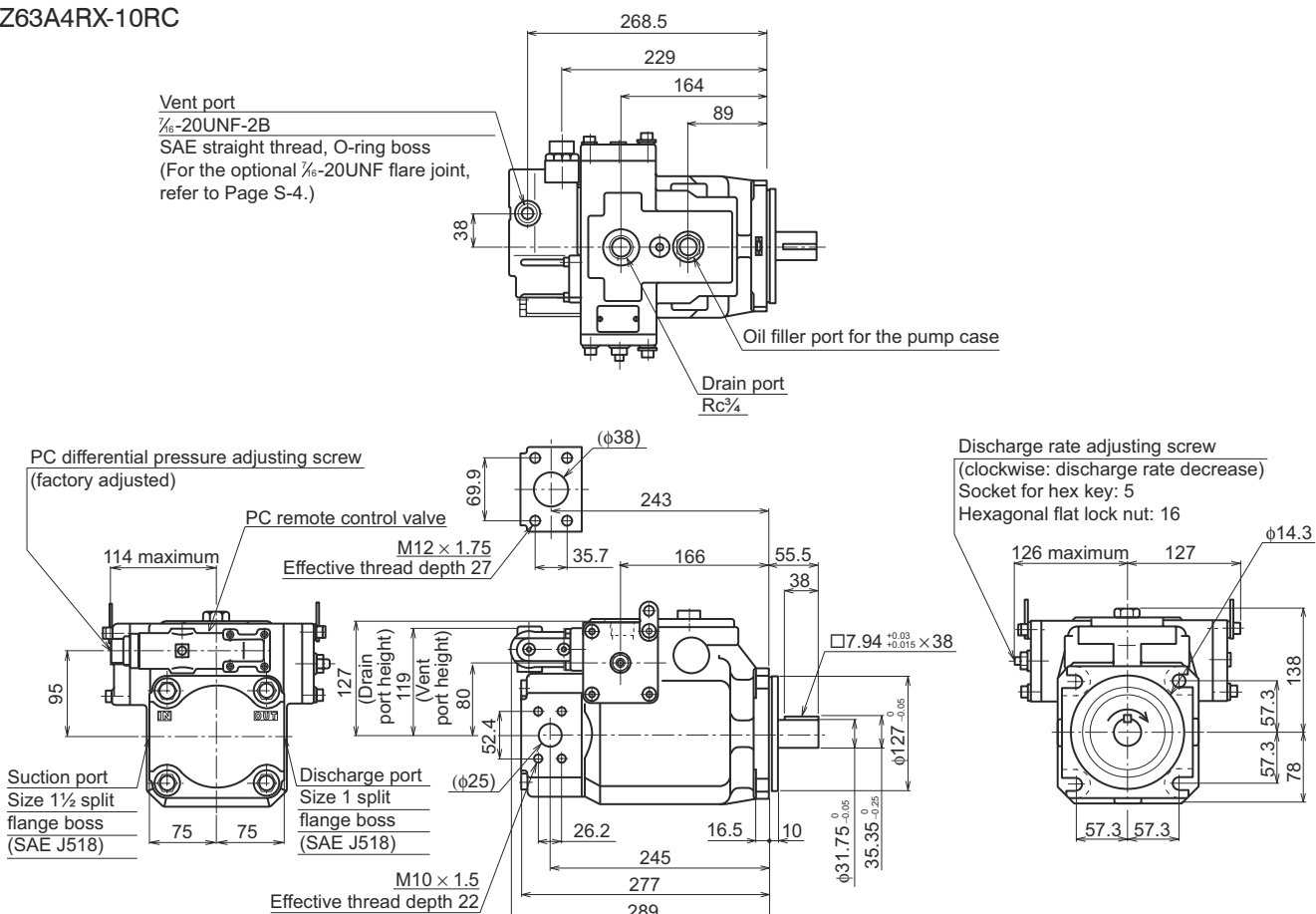


VZ50C※RJ※X-10



External dimension diagram
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VZ63A×RX-10


Mass: 47 kg

VZ63A4RX-10RC


Mass: 47.5 kg

Contact Details

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Internet

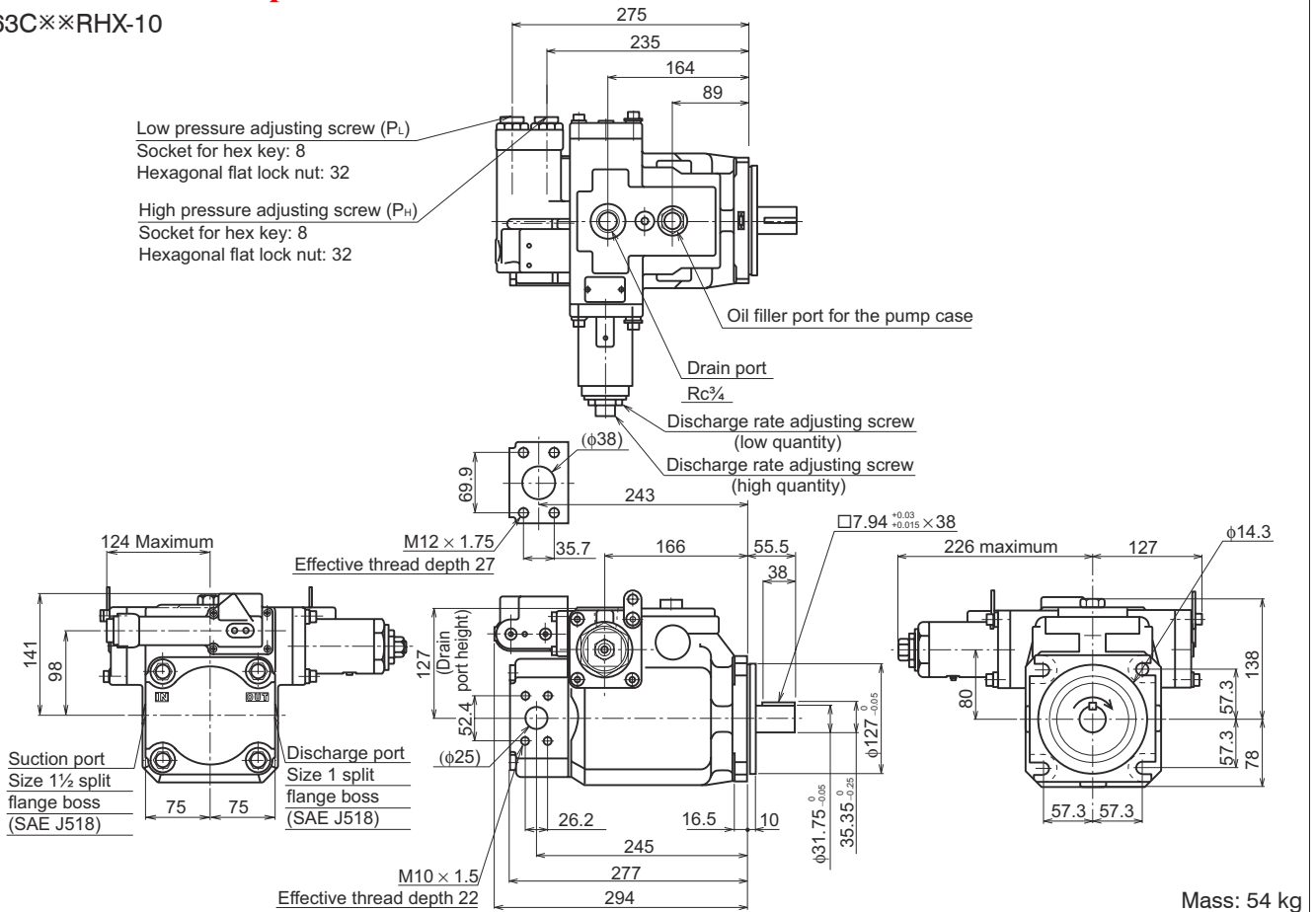
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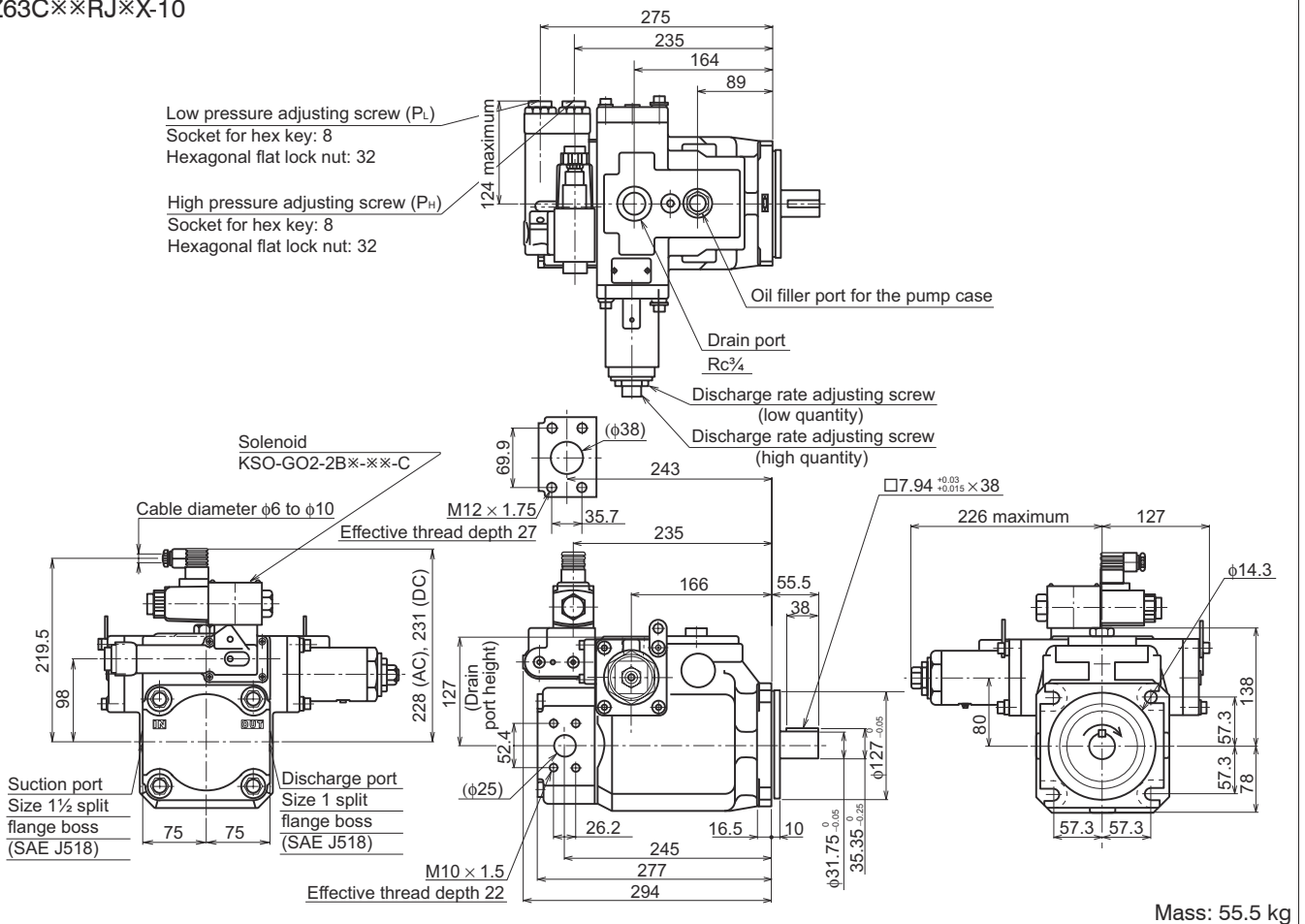
External dimension diagram

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VZ63C※RHX-10



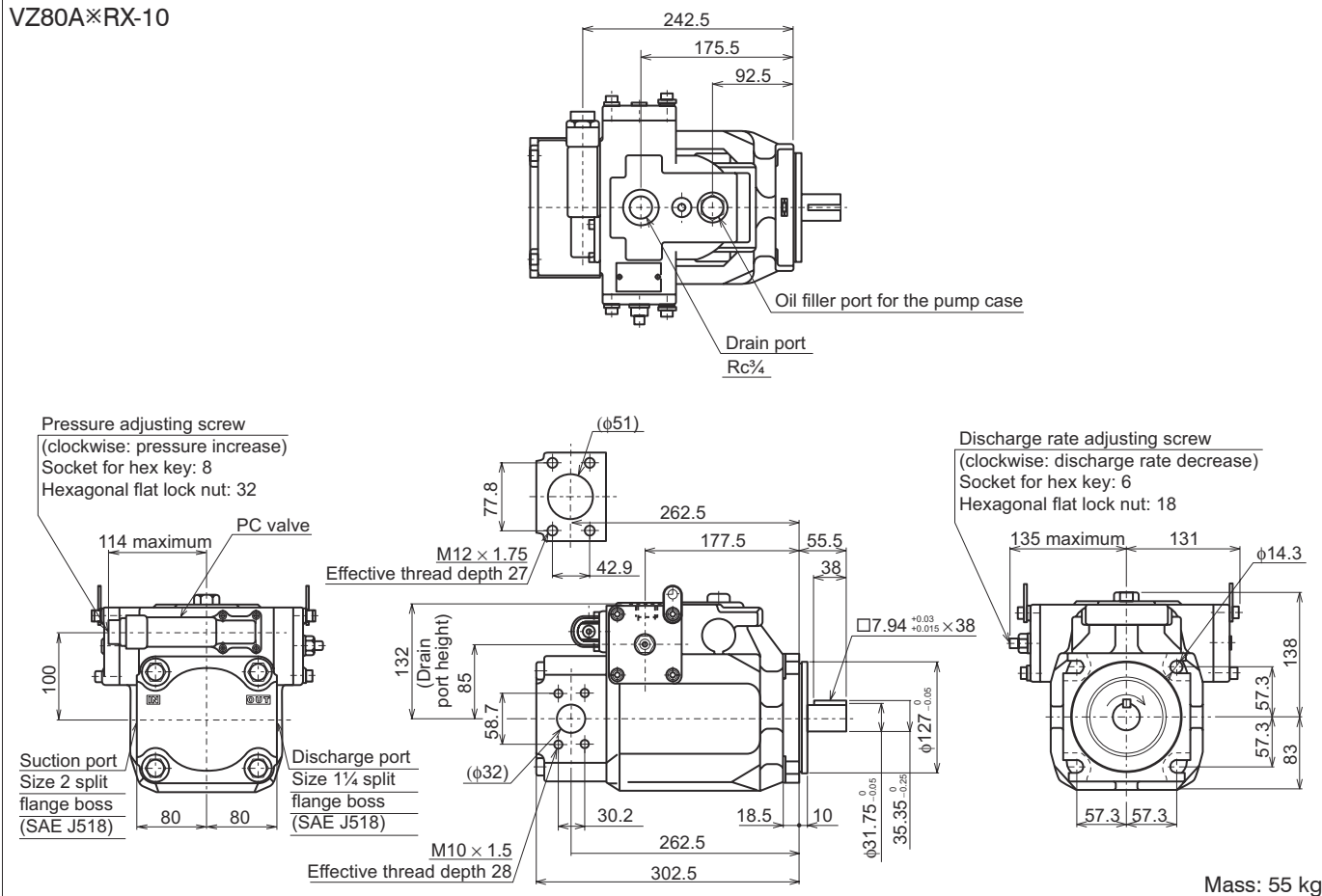
VZ63C※RJ※X-10



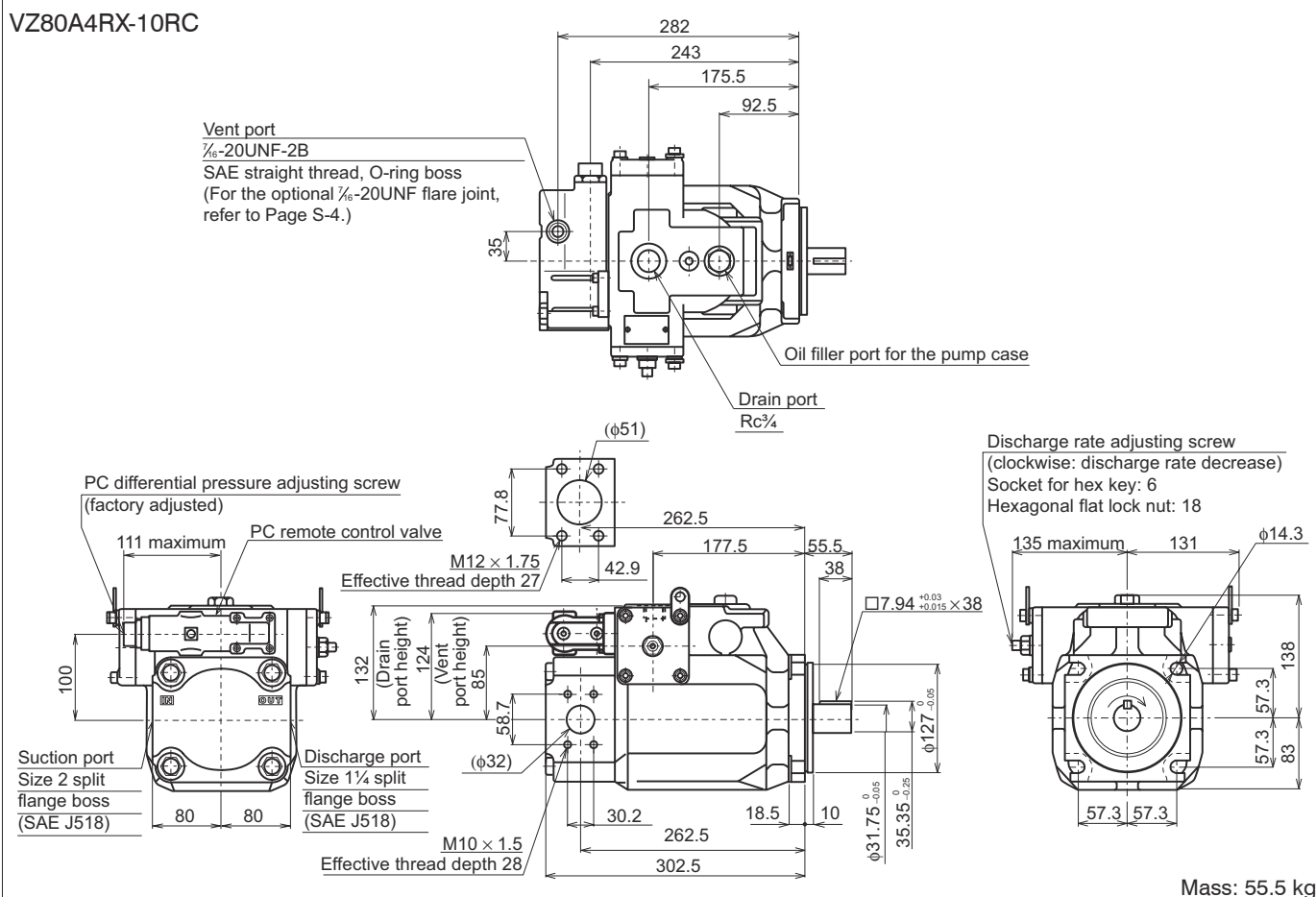
External dimension diagram

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VZ80A×RX-10



VZ80A4RX-10RC



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VZ80C※RHX-10

Low pressure adjusting screw (P_L)
Socket for hex key: 8
Hexagonal flat lock nut: 32

High pressure adjusting screw (P_H)
Socket for hex key: 8
Hexagonal flat lock nut: 32

Oil filler port for the pump case

Drain port
 $Rc\frac{1}{4}$

Discharge rate adjusting screw (low quantity)
Discharge rate adjusting screw (high quantity)

121 maximum
103
146
80
80

Suction port
Size 2 split
flange boss
(SAE J518)

Discharge port
Size 1½ split
flange boss
(SAE J518)

Effective thread depth 27

M12 × 1.75

77.8

(φ51)

262.5

177.5

55.5

38

232

132 (Drain port height)

85

58.7

(φ32)

30.2

18.5

10

262.5

302.5

307.5

M10 × 1.5
Effective thread depth 28

□7.94 $\begin{smallmatrix} +0.03 \\ +0.015 \end{smallmatrix} \times 38$

φ127 $\begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

φ31.75 $\begin{smallmatrix} 0 \\ -0.05 \end{smallmatrix}$

35.35 $\begin{smallmatrix} 0 \\ -0.25 \end{smallmatrix}$

288.5

248.5

175.2

92.5

Mass: 60 kg

VZ80CRJ**X-10**

Low pressure adjusting screw (P_L)
 Socket for hex key: 8
 Hexagonal flat lock nut: 32

High pressure adjusting screw (P_H)
 Socket for hex key: 8
 Hexagonal flat lock nut: 32

Oil filler port for the pump case

Drain port
 Rc 3/4

Discharge rate adjusting screw
 (low quantity)
 Discharge rate adjusting screw
 (high quantity)

Solenoid
 KSO-GO2-2B**X**C
 Cable diameter
 φ6 to φ10

Effective thread depth 27

M12 × 1.75

221.5 (AC), 224.5 (DC)

103

233 (AC), 236 (DC)

80

80

Suction port
 Size 2 split
 flange boss
 (SAE J518)

Discharge port
 Size 1 1/4 split
 flange boss
 (SAE J518)

132 (Drain port height)

85

58.7

(φ32)

30.2

262.5

18.5

10

302.5

307.5

M10 × 1.5

Effective thread depth 28

288.5

248.5

175.2

92.5

121 maximum

42.9

77.8

262.5

248.5

177.5

55.5

38

7.94 ^{+0.03}/_{-0.015} × 38

φ31.75 ⁰/_{-0.05}

35.35 ⁰/_{-0.25}

φ127 ⁰/_{-0.05}

232 maximum

131

138

57.3

57.3

83

φ14.3

Mass: 61.5 kg

Mass: 61.5 kg

Contact Details

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

Internet

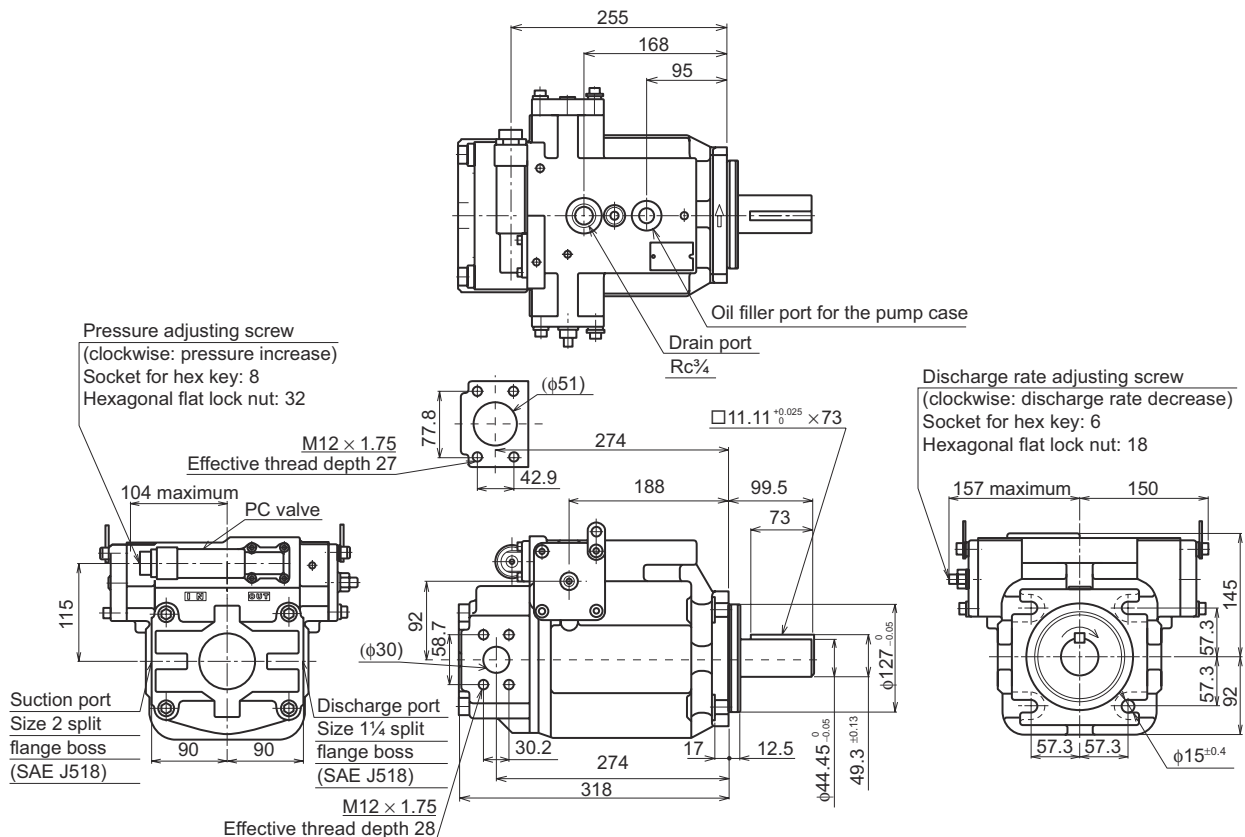
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External dimension diagram

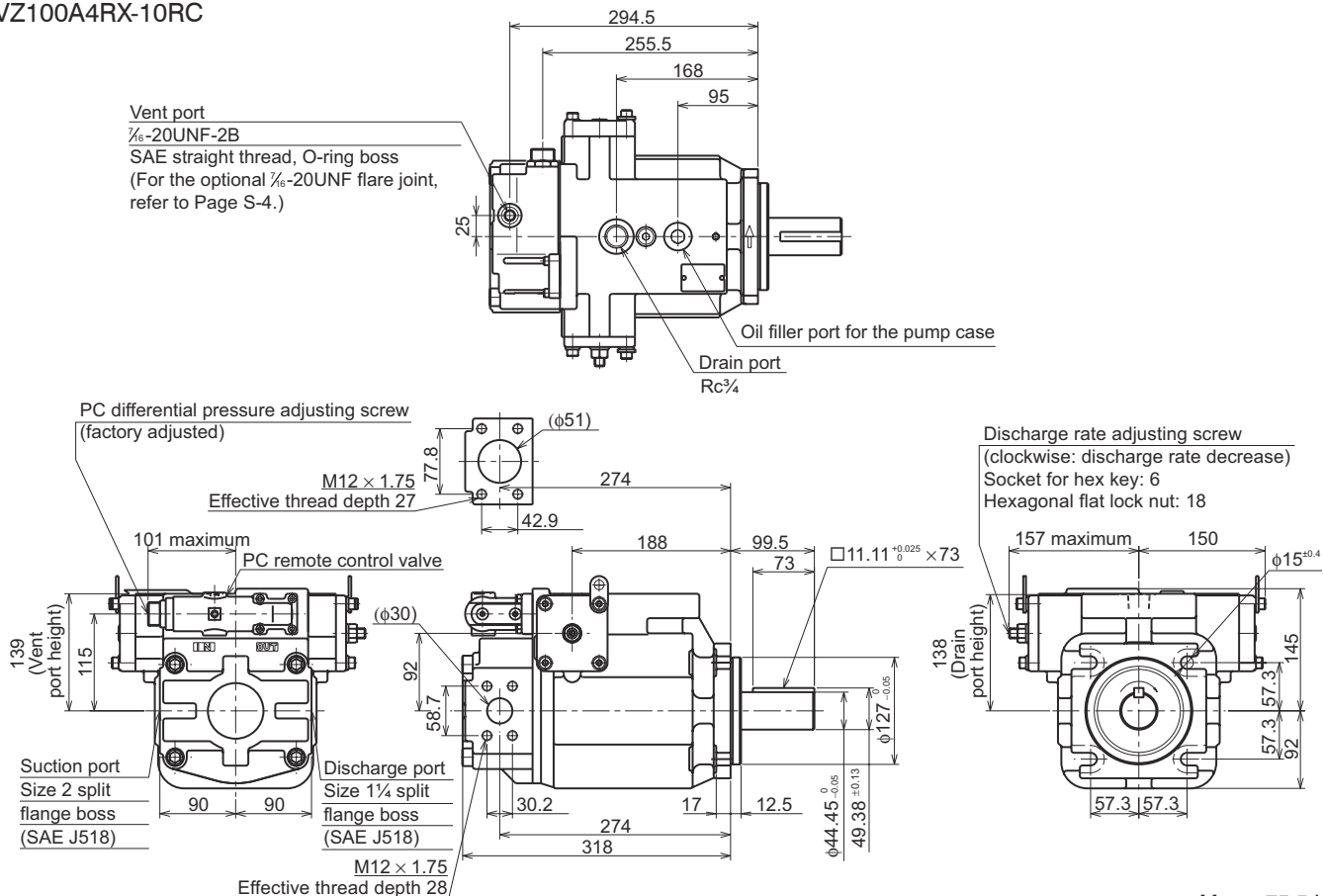
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VZ100A×RX-10



Mass: 75 kg

VZ100A4RX-10RC



Mass: 75.5 kg

Contact Details

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Internet

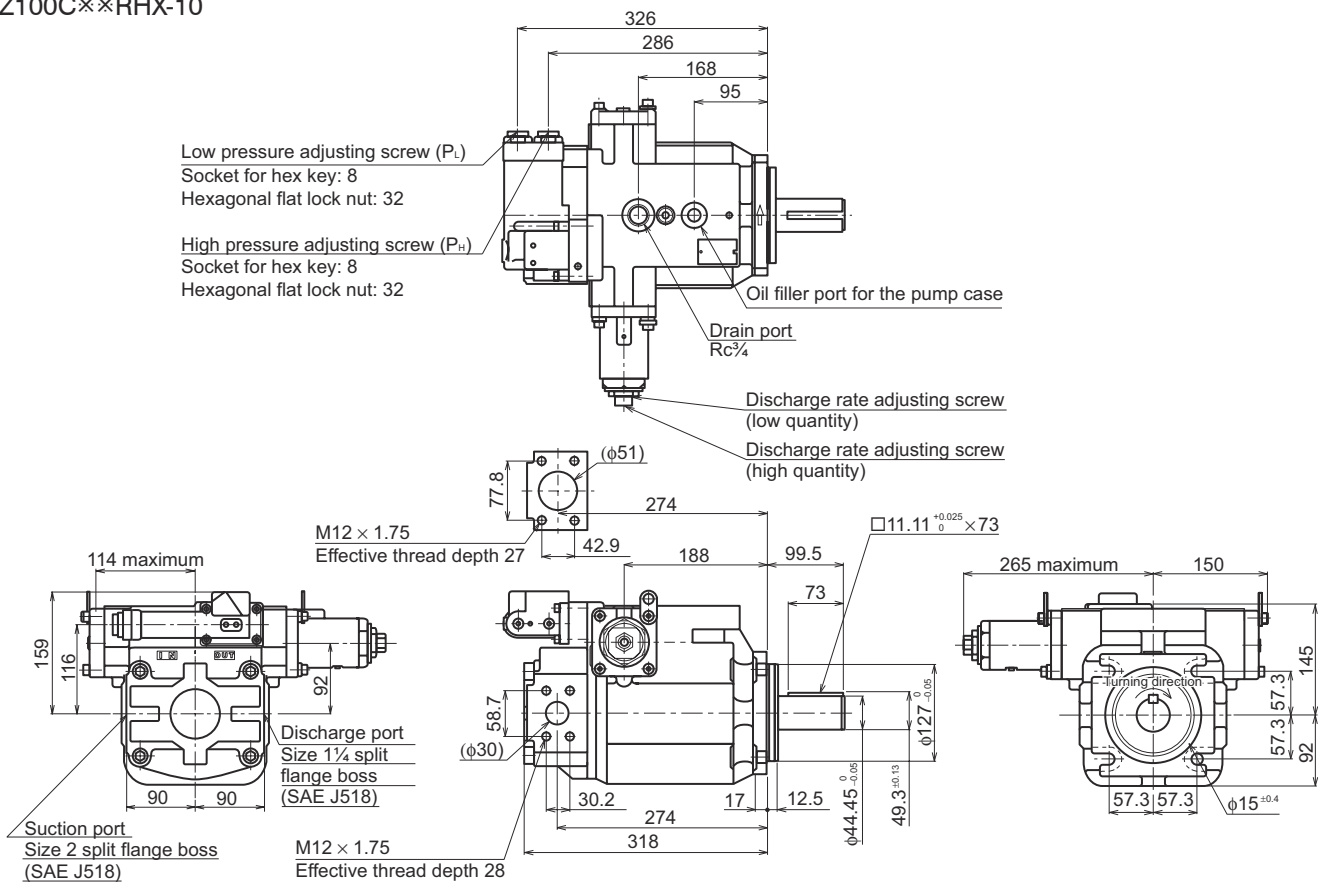
<https://www.daikinpmc.com/en/>

For latest information, PDF catalogs and operation manuals

External dimension diagram

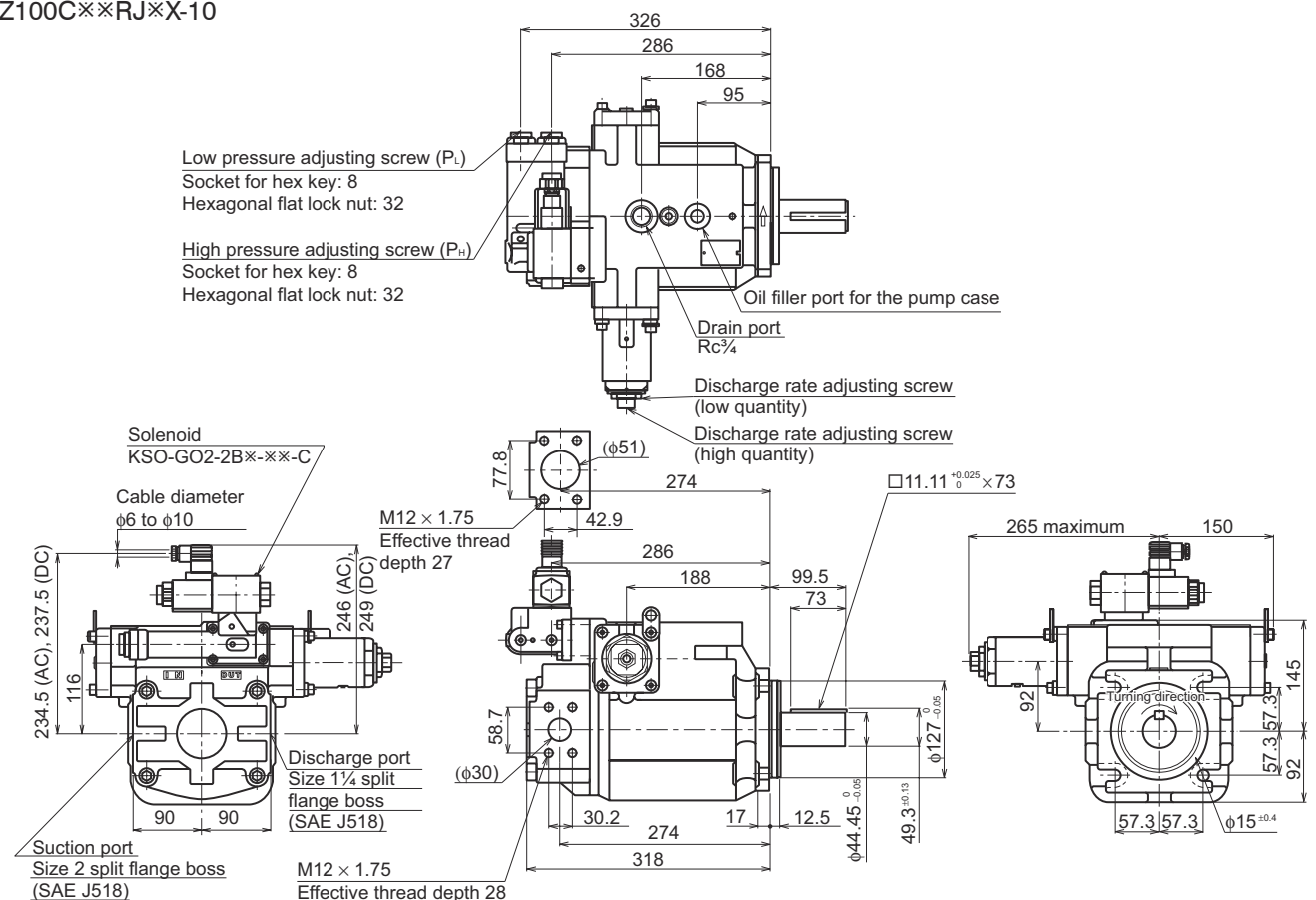
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VZ100C**RHX-10



Mass: 80 kg

VZ100C**RJ**X-10



Mass: 81.5 kg

Contact Details

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Internet

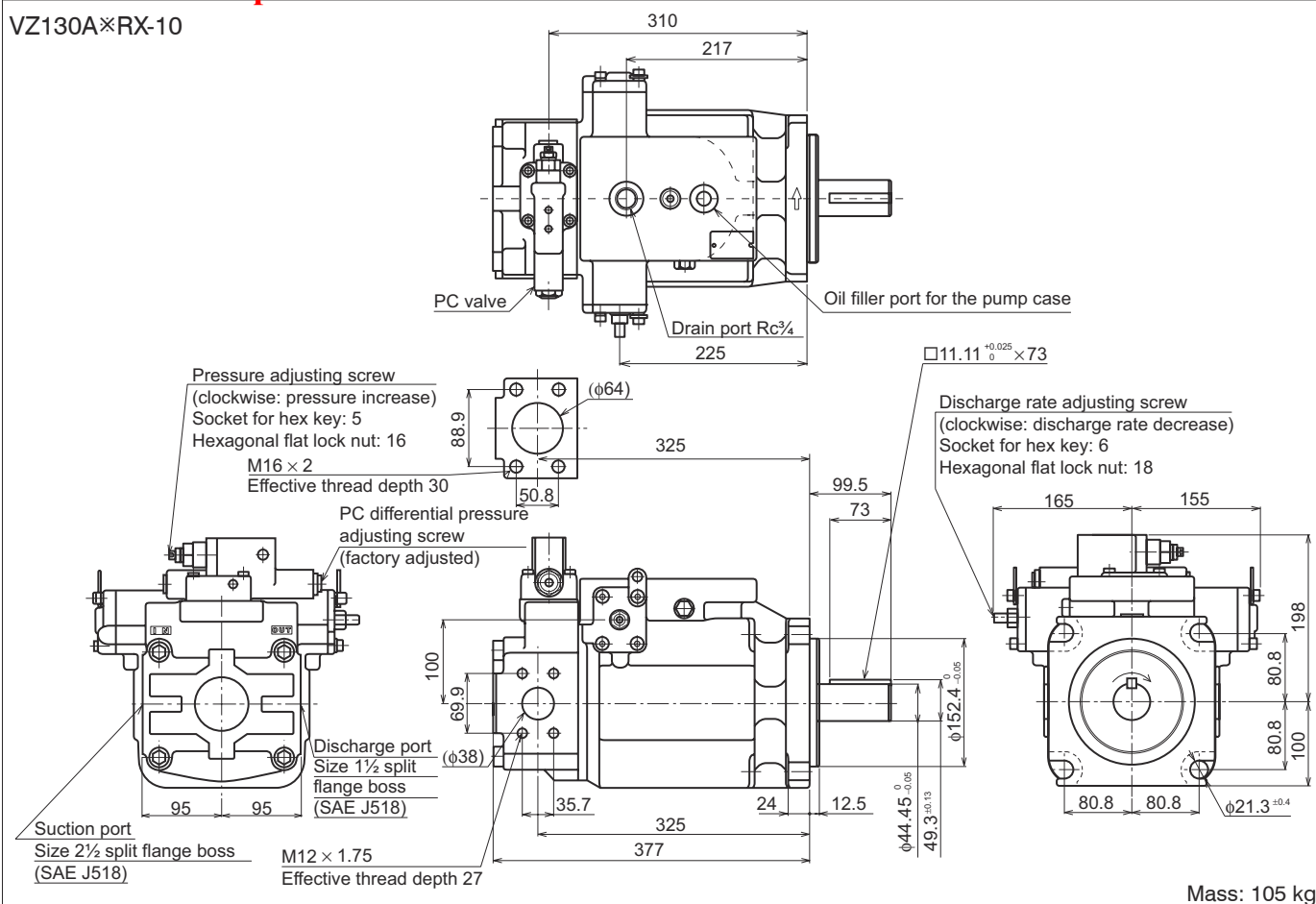
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For latest information, PDF catalogs and operation manuals

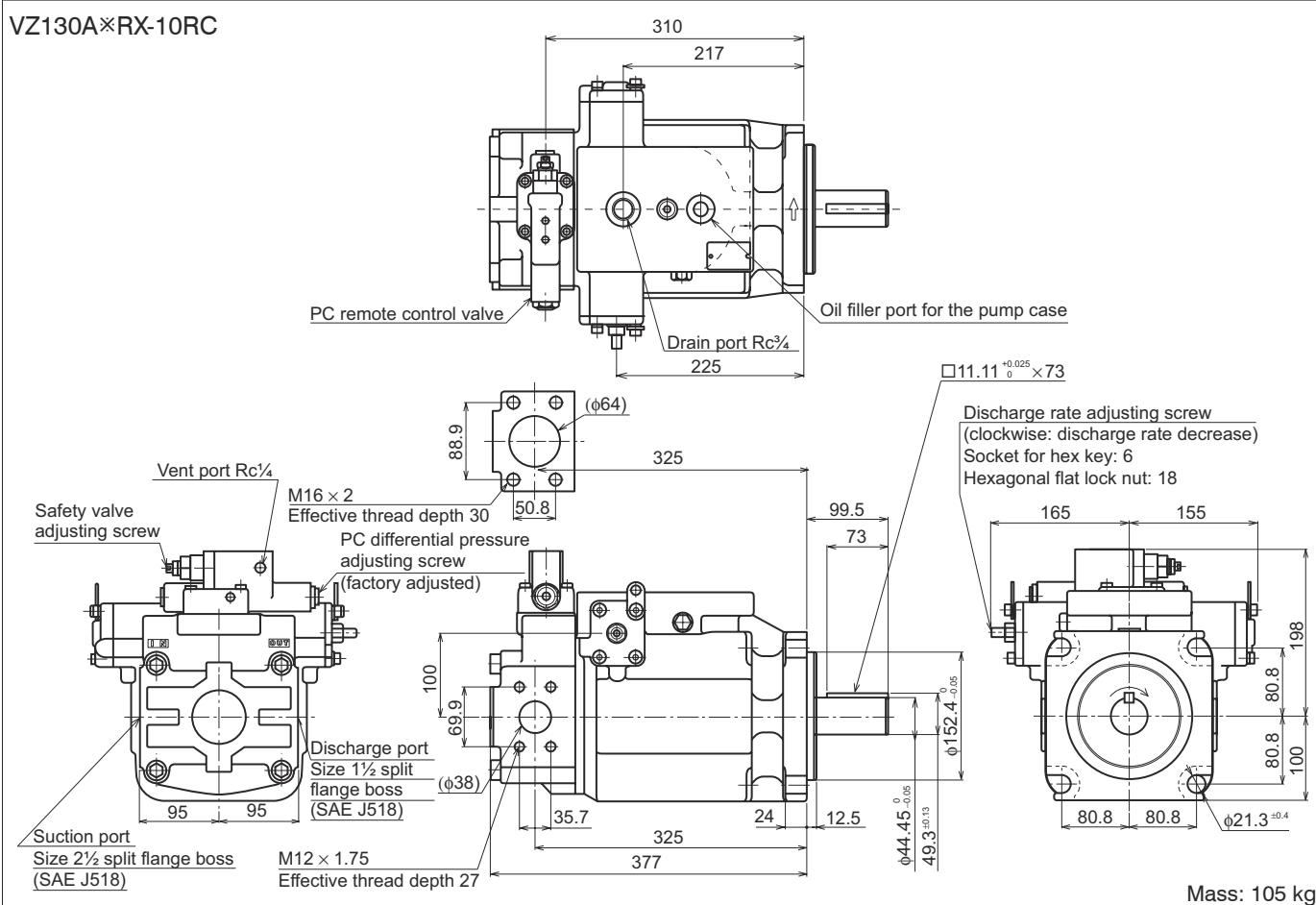
External dimension diagram

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VZ130A×RX-10



VZ130A×RX-10RC



Contact Details

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Internet

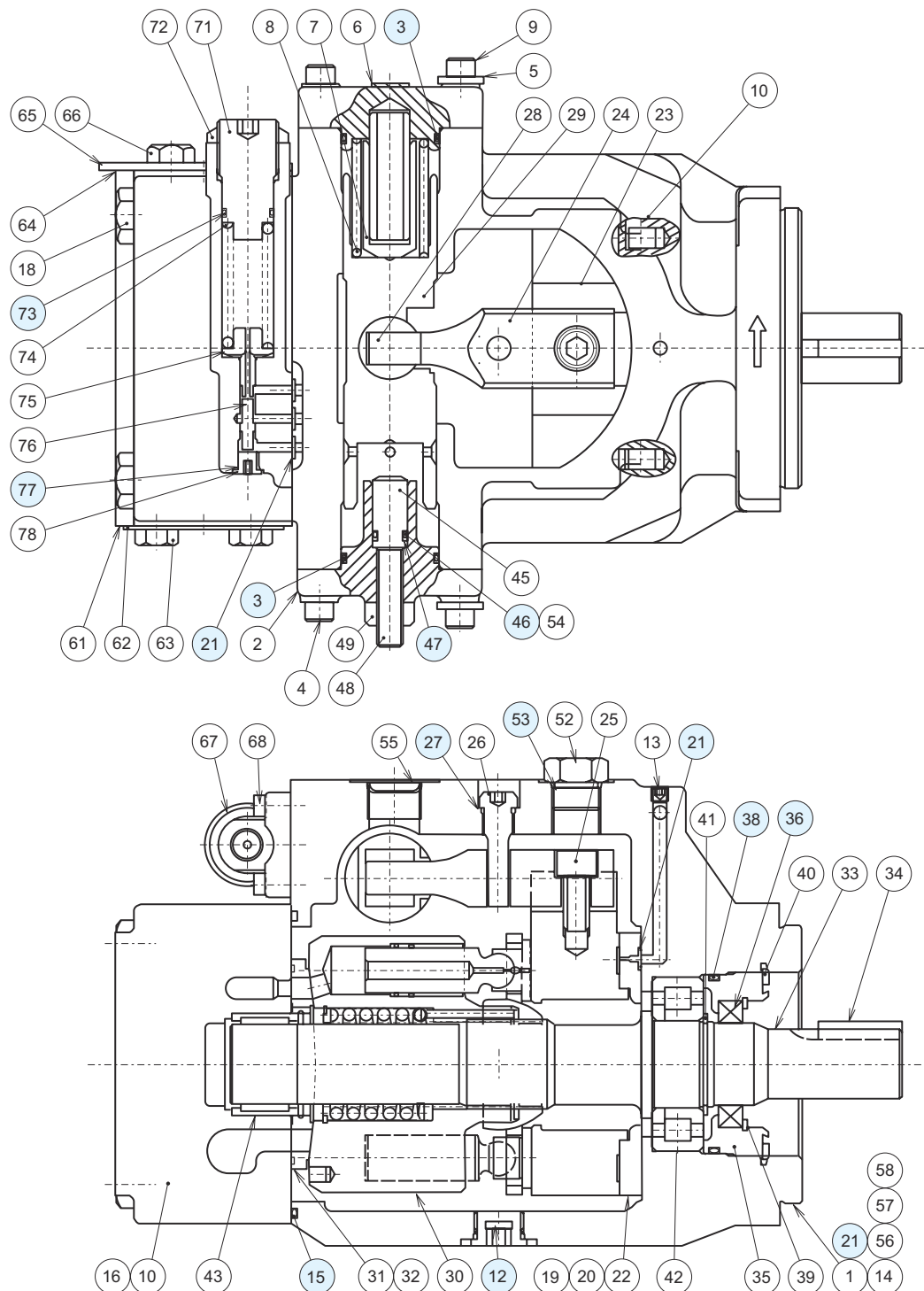
<https://www.daikinpmc.com/en/>

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Sectional structural diagram

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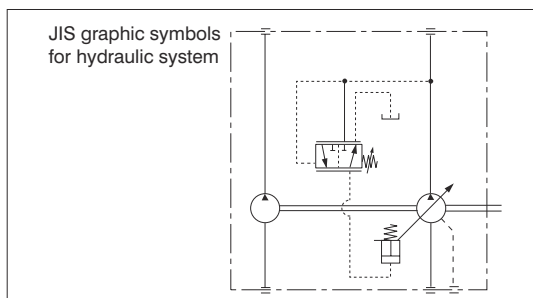
VZ80



Part No.	Name	Quantity	Part specifications					Material
			VZ50	VZ63	VZ80	VZ100	VZ130	
3	O-ring	2	JIS B 2401 1B-G35		JIS B 2401 1B-G40	JIS B 2401 1B-G45		NBR
12	O-ring	1	AS568-908 (HS90)		AS568-910 (HS90)			NBR
15	O-ring	1	JIS B 2401 1B-G120	JIS B 2401 1B-G125	JIS B 2401 1B-G135	JIS B 2401 1A-G150	JIS B 2401 1A-G160	NBR
21	O-ring	6	JIS B 2401 1B-P7			JIS B 2401 1B-P7 (4 pcs.) 1B-P9 (3 pcs.)	JIS B 2401 1B-P7 (1 pc.) 1B-P9 (7 pcs.)	NBR
27	O-ring	1	AS568-906 (HS90)	AS568-908 (HS90)	AS568-906 (HS90)	AS568-908 (HS90)		NBR
36	Oil seal	1	TCV284811		TCV385811		TCN487012	NBR
38	O-ring	1	AS568-234 (HS70)			AS568-238 (HS90)		NBR
46	O-ring	1	JIS B 2401 1B-P10A			JIS B 2401 1B-P12		NBR
47	Backup ring	1	JIS B 2407 T2P10A			JIS B 2407 T2P12		
53	O-ring	1	AS568-910 (HS90)					NBR
73	O-ring	1	JIS B 2401 1B-P20					NBR
77	O-ring	1	AS568-903 (HS90)					NBR

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

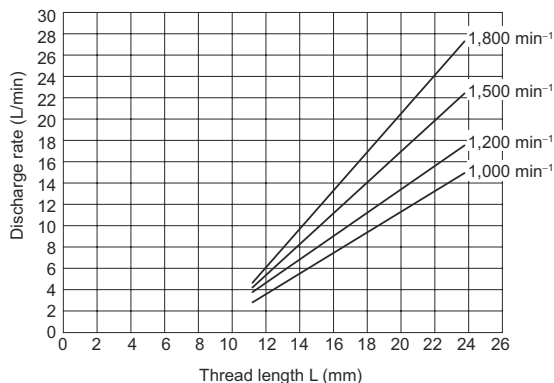
Piston Pump Specifications

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

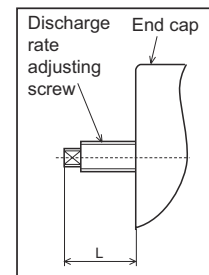
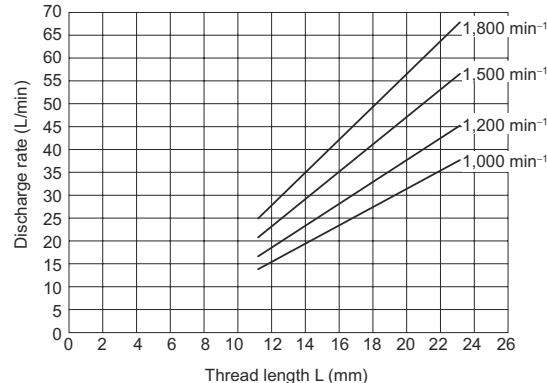
● The discharge rate can be roughly judged from the protruding length of the discharge rate adjusting screw (L).

(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.

Contact Details

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

Internet

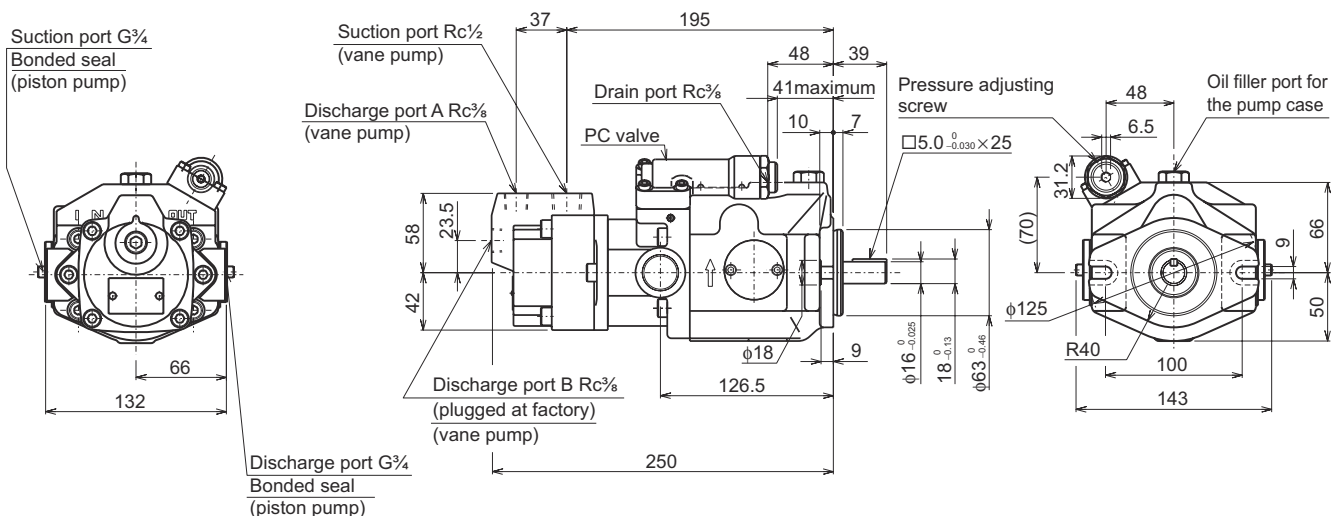
<https://www.daikinpmc.com/en/>

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External dimension diagram

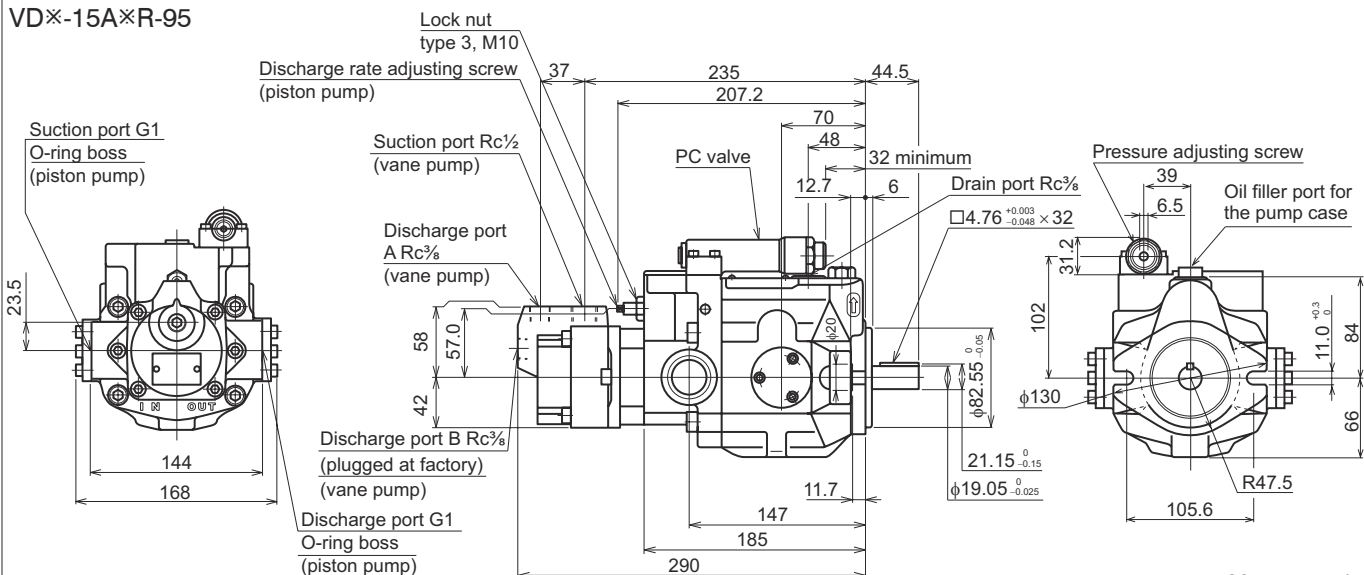
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VD*-8A1R-30



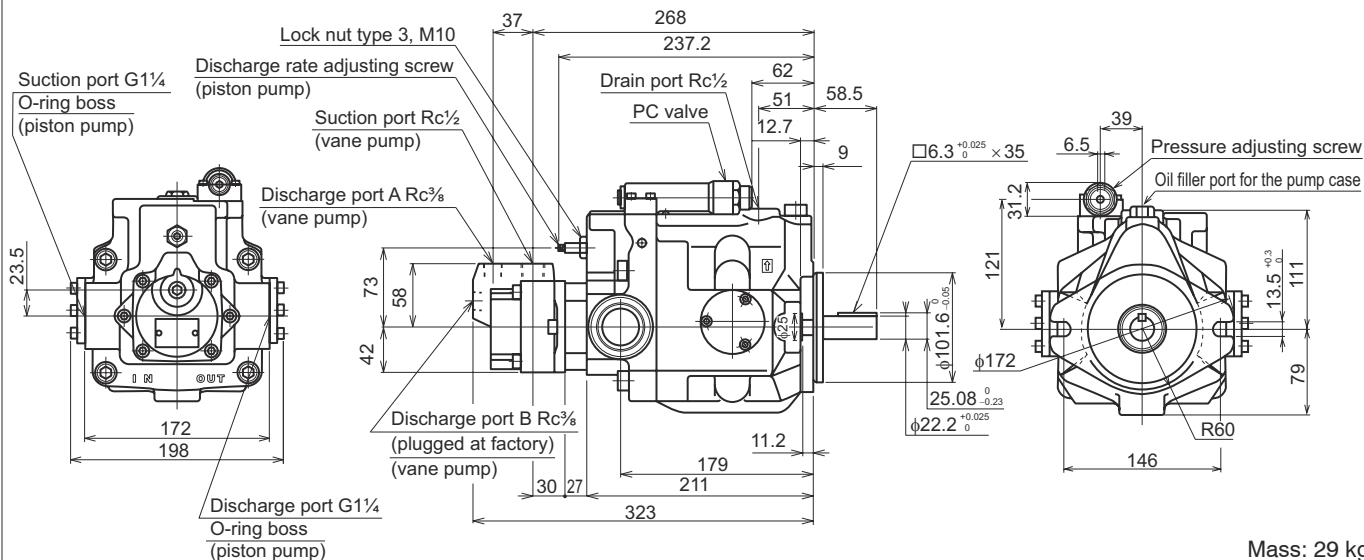
Mass: 13 kg

VD*-15A*R-95



Mass: 17.2 kg

VD*-38A*R-95



Mass: 29 kg