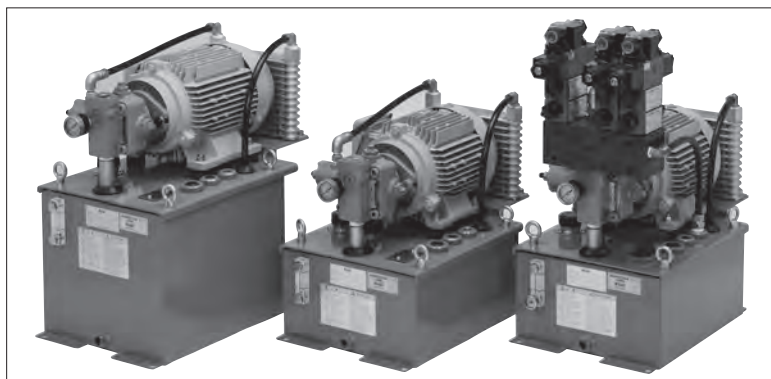


Low noise small power packages QV-PAC



- A compact and light weight power package features small tank and low oil volume.
- Equipped with a high-performance variable displacement piston pump.
- Direct installation of manifold blocks are optional, leading to a easy configuration of a customer required hydraulic circuit by utilising the TGM-3 stack valves.
- Standard feature include filters on all types of return lines, leading to a longer operational life.
- Variety of options are available, including temperature gauge, magnetic level switch, manifold block, and many more.

Model Code

QV3A-10-N(T)-(T)(M)(L)(F)(3)(C)R-1234

1 2 3 4 5 6 7 8 9 10 11 12 13

- 1 Small power package QV-PAC series
- 2 Model code (3A/4A)
See 'Specifications'
- 3 Tank capacity
10: 10 L
20: 20 L
- 4 Electric motor voltage code (see right table)
- 5 Solenoid valve voltage code (see right table)
Omit: no solenoid valve
[Option Codes]
- 6 Temperature gauge
Omit: without temperature gauge
T: With temperature gauge
- 7 Magnet
Omit: not provided
M: With magnet
- 8 Level switch
Omit: not provided
L: With level switch
- 9 Manifold block
Omit: not provided
F: Provided (front panel connection port)
- 10 Manifold block stations (ISO4401-03 size)
Numbers indicate no. of stations (1st to 3rd)
- 11 Paint color
Omit: Munsell N5.5 (standard)
C: Special paint
- 12 Radiator (drain cooler)
R: With radiator (drain cooler) (standard)
Omit: not provided (option)
- 13 Control no.

Electric motor voltage code

	Code	Power Supply
Standard	N	200/200/220V 50/60/60Hz
	A	400/400/440V 50/60/60Hz
* Special	B	380V 50Hz
	F	415V 50Hz
	D	460V 60Hz

* Special voltage is for option.
Advise Tokyo Keiki of the supply voltage and frequency if specifications other than the ones given above are desired.

Solenoid valve voltage code

	Code	Voltage (V)	Frequency (Hz)
AC	T	100	50/60
		110	60
	B	110	50
		115	60
		120	60
	V	200	50/60
		220	60
	D	220	50
230		60	
DC	G	12	-
	H	24	-

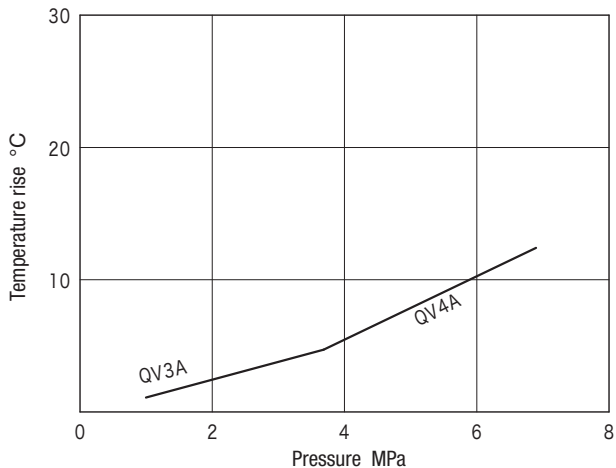
Specifications

Model Code	Electric Motor	Displacement Volume of Variable Displacement Vane Pump cm ³ /rev	Rated Pressure MPa	Maximum Delivery (at no load) L/min		Tank Capacity L	Weight * Kg
				50Hz	60Hz		
QV3A	1.5 kW, 4P	16	3.5	24	28.8	10/20	40/42
QV4A	2.2 kW, 4P		6				46/48

- Note:
- If the pressure setting is under 4 MPa with the model QV4A, the maximum discharge rate will decrease by about 20%.
 - The maximum working pressure of the hydraulic pumps is 7 MPa.
For use at a pressure of 7 MPa, reduce the discharge rate of the hydraulic pump.
 - For the correlation between the working pressure and maximum allowable flow, refer to the pressure – flow – electric motor output curves.
 - Consult with Tokyo Keiki if model QV3A is to be used at a lower discharge rate and at a pressure of 3.5 MPa or above.
 - * Hydraulic fluid and manifold block not included.

Characteristics Curves

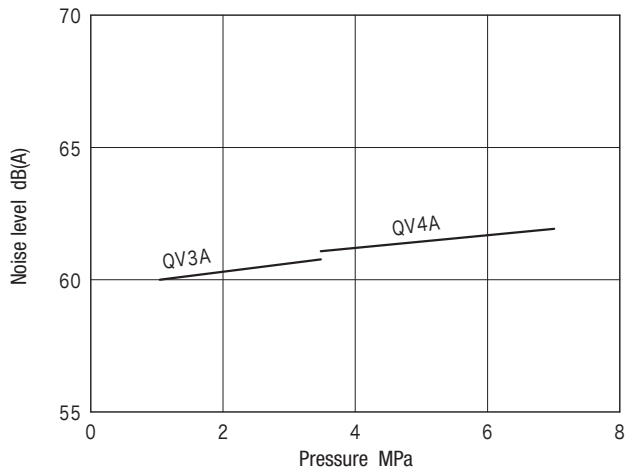
● Oil Temperature Rise Characteristics



- (1) Tank Oil temperature = room temperature + temperature rise
- (2) Data based on power unit installation in well ventilated location, continuous cutoff operation at 60 Hz. (with radiator)

Note: The actual oil temperature rise may differ from the values given above depending on the usage conditions and ambient environment conditions.

● Noise Characteristics

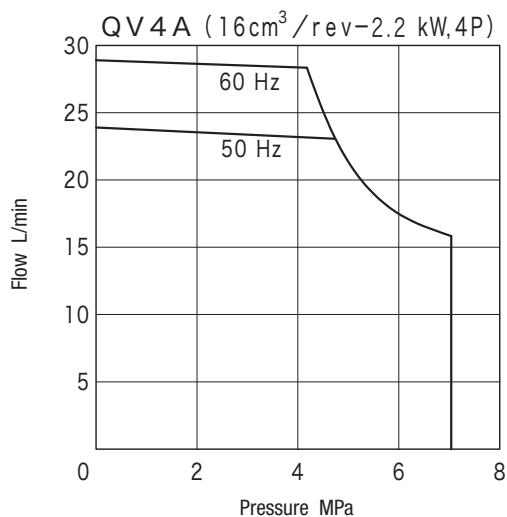
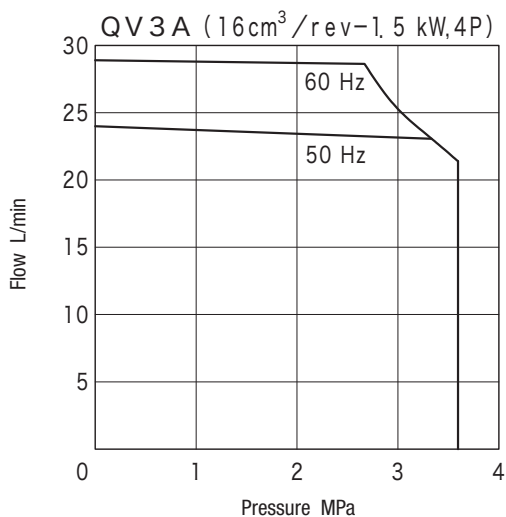


- (1) Setting distance: 1 m (5 area average of cutoff operation)
- (2) Speed: 1800 min⁻¹ (60 Hz)
- (3) Oil temperature: 40°C

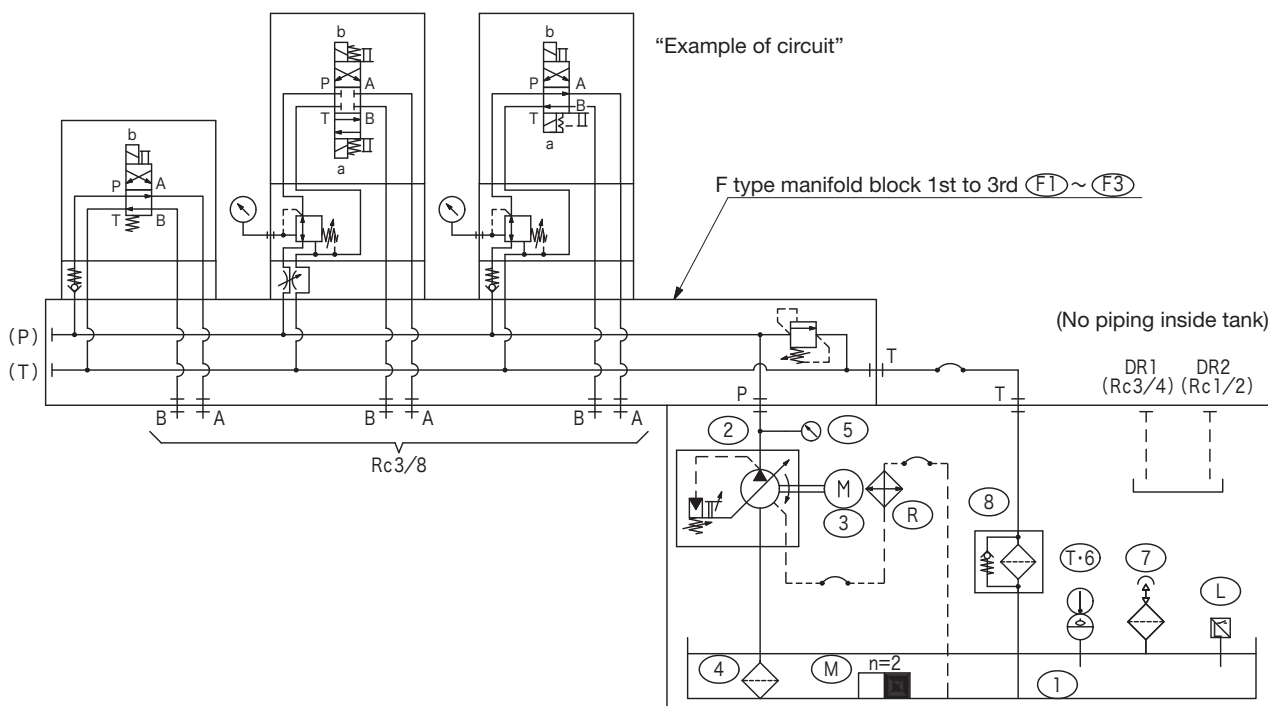
Note: The actual noise characteristics may differ from the values given above depending on the installation conditions.

Model Selection Pressure-Flow-Electric Motor Output Curves

Applicable pressure-flow-electric motor output for each model is the area delineated by the curve. Select model based on the pressure and flow to be used and which falls within this area.



Hydraulic Circuit Diagram



Code	Device Name
1	Oil tank
2	Variable displacement vane pump
3	Direct coupled electric motor
4	Strainer
5	Pressure gauge (glycerin filled)
T · 6	Oil level gauge (T: with temperature gauge)
7	Oil fill port and air breather
8	Filter
M	Magnet
L	Level switch
R	Radiator
F*	Manifold block (connection port orientation: front) 1st to 3rd

Dimensions

● Standard

