

Product News

No.25

07E

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PAL Pump (PM Series) Pressure Compensator Control Type Notice of Model Change

For the 1.5 kW PAL Pump, due to a change in the electric motor supplier, a model change has been implemented. We would like to inform you as follows.

■ Installation Compatibility

● None

The following parts will be changed. Refer to Page 3 for details.

Symbol	Name	Remarks
C	Port "A1"	Drain Port (Horizontal), Case Drain Port (Vertical)
E	Port "A2"	Drain Port (Horizontal)
	Port "B"	Case Drain Port (Horizontal)
K	Terminal Box	—
L	Eye Bolt	—

★Other than the inlet/discharge ports and the above items, there are no dimensional changes.

■ Model Number Configuration

The design number will be updated to 40.

The model number configuration itself will not change.

PM16	-01	B	-1.5	-40
Series Number	Control Type	Pres. Adj. Range Mpa	Model Number Output X Number of Poles	Design No.
PM10: (10.0 cm ³ /rev)	01: Pressure Compensator Control Type	B: 1.2~7 C: 2~16	1.5: 1.5 kW×4P	40
PM16: (15.8 cm ³ /rev)				40

■ Switching Period

After end of stock

■ Specifications

The following specifications have been changed (there are no changes to specifications other than those listed below).

● Electric Motors

Model Number Output X Number of Poles		Voltage - Frequency V - Hz	Rated Current A	Rotational Speed r/min	Inrush Current A
Old	PM10-01*-1.5 PM16-01*-1.5 1.5 kW×4P	200 – 50	6.4	1420	43.6
		200 – 60	6.2	1710	39.4
		220 – 60	5.8	1730	43.3
		230 – 60	5.8	1730	45.3
New		200 – 50	6.8	1410	40.5
		200 – 60	6.4	1690	38.0
		220 – 60	6.0	1710	43.4
		230 – 60	6.0	1710	45.8

● Mass

Model No.	Old Mass (kg)	New Mass (kg)
PM10-01*-1.5	41.8	42.5
PM16-01*-1.5	39.5	44.0

■ External Dimensions Drawing

For details of the new model [specifications and dimensions], please refer to the External Dimensions Drawing below.

Model Number	External View
PM10-01*-1.5-40	PM10-01*-1.5-40.pdf
PM16-01*-1.5-40	PM16-01*-1.5-40.pdf

★ Other electric motors will also undergo model changes sequentially. For details, please refer to the Product News to be issued at a later date.

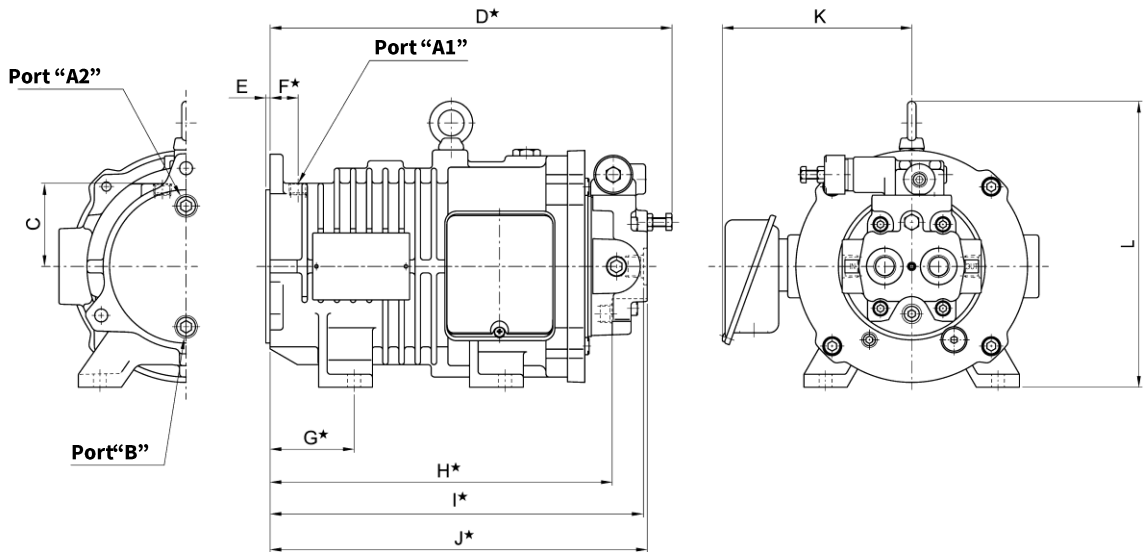
External Dimensions

The following external dimensions have been changed. (There is no change in dimensions other than the following.)

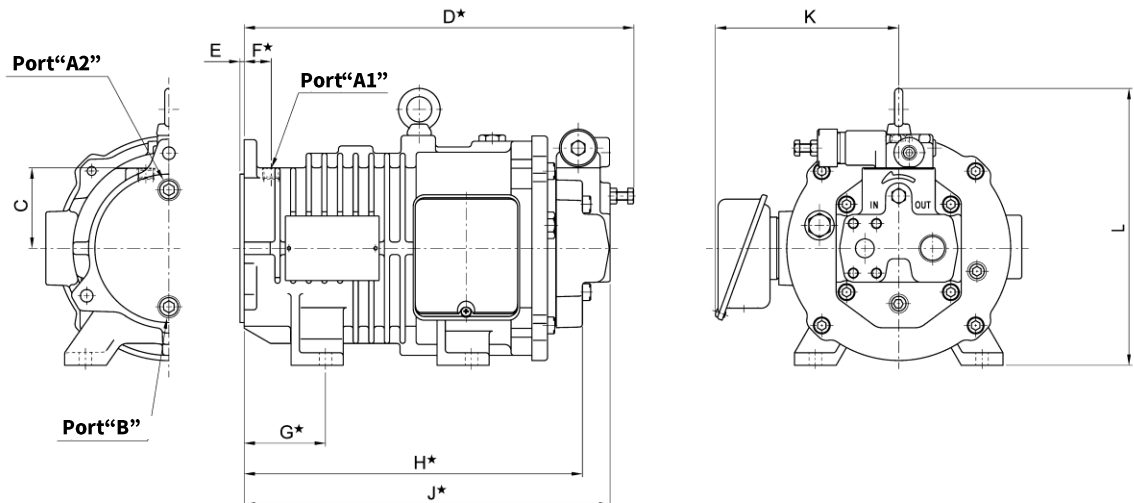
Model No.		C	D★	E	F★	G★	H★	I★	J★	K	L
Old	PM10-01*-1.5-31	81	Max 373 (Identical)	3	26 (Identical)	78 (Identical)	317.5 (Identical)	346.5 (Identical)	350 (Identical)	180	262
New	PM10-01*-1.5-40	77		4						176	265
Old	PM16-01*-1.5-30	81	Max 374.5 (Identical)	3	26 (Identical)	78 (Identical)	324.5 (Identical)	—	351 (Identical)	180	262
New	PM16-01*-1.5-40	77		4						176	265

★The dimension reference has been changed to the landing surface of the mounting leg when placed vertically. However, there is no change in dimension values between the old and new models.

PM10-01*-1.5



PM16-01※-1.5



■ Characteristics

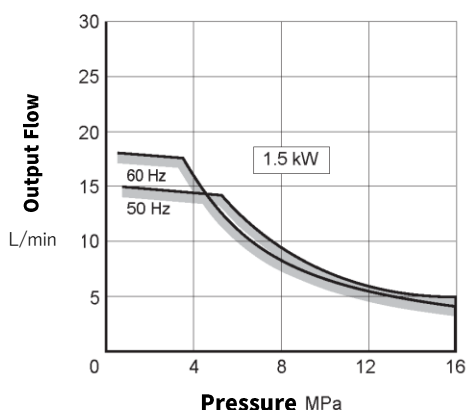
● Selection Graph

The area below the shaded region of the graph indicates the permissible operating range at the electric motor's rated output.

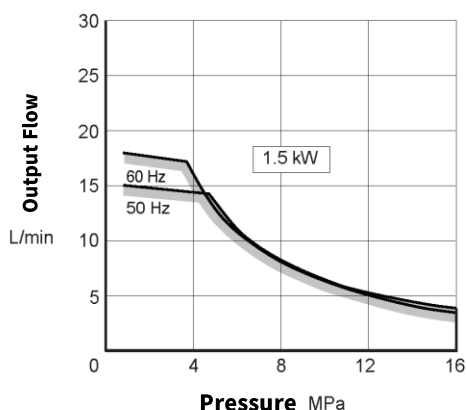
★ The dotted line on the graph indicates flow rates below the pump's minimum adjustable flow rate.

If operation below the minimum adjustable flow rate is required, please consult us separately.

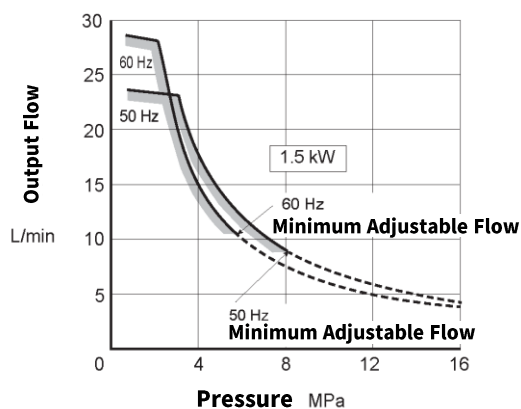
【PM10-31 Design】



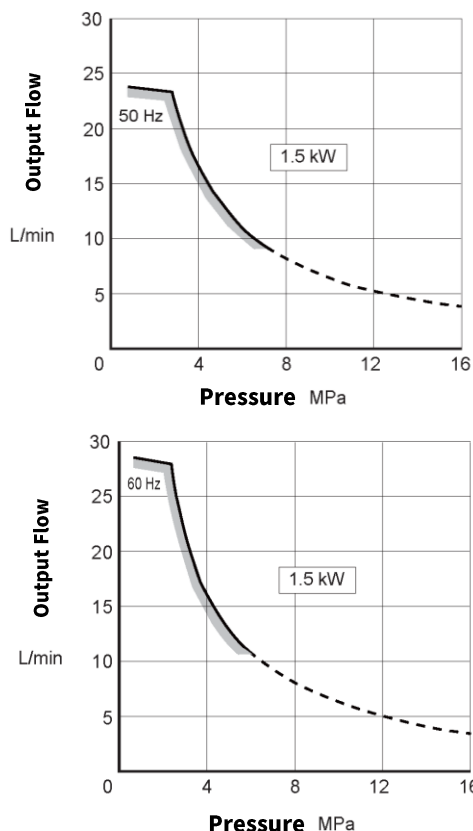
【PM10-40 Design】



【PM16-30 Design】



【PM16-40 Design】

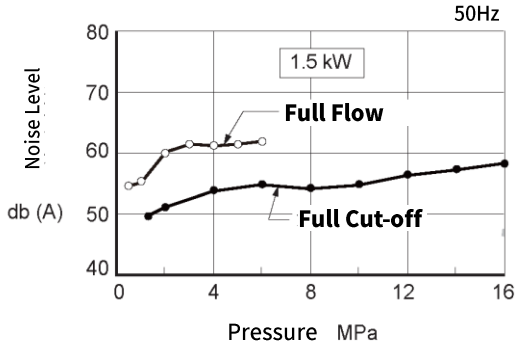


● Noise Characteristics

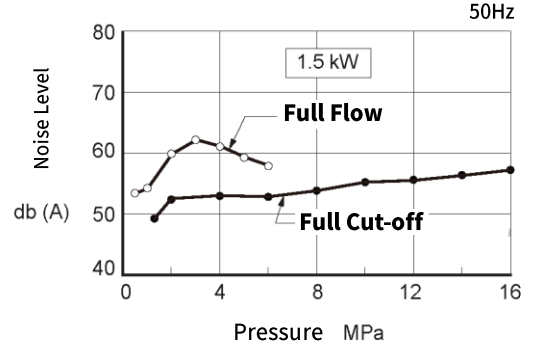
Viscosity: 32 mm²/s Oil Temp.: 40°C Oil Equivalent to ISO VG32

★ Measurements taken under the same conditions for both old and new designs.

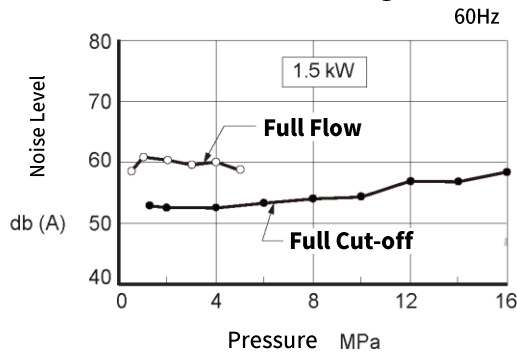
【PM10-31 Design】



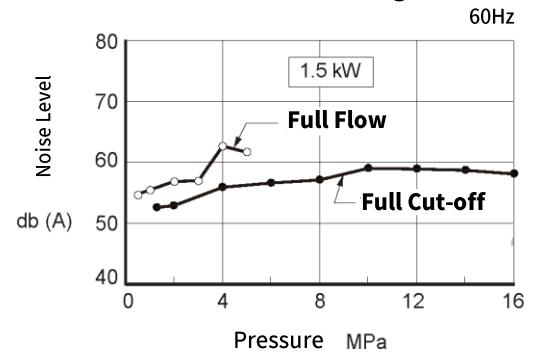
【PM10-40 Design】



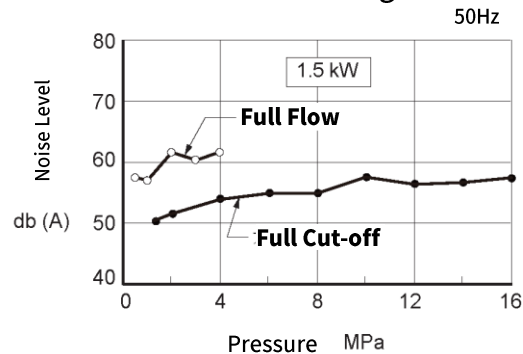
【PM10-31 Design】



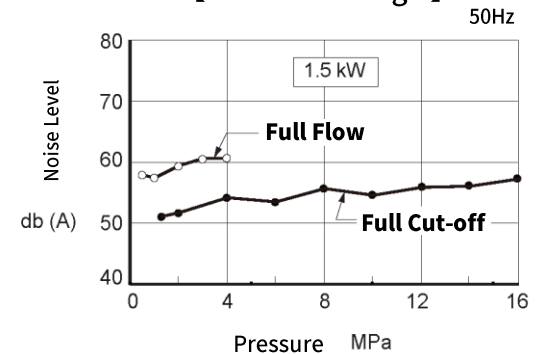
【PM10-40 Design】



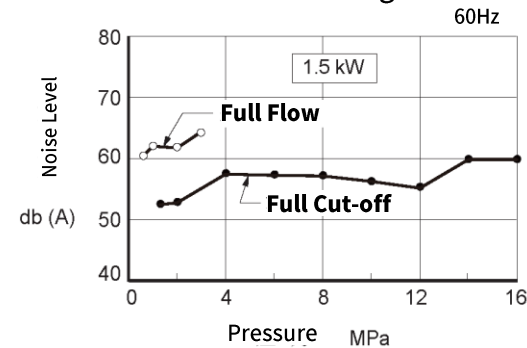
【PM16-30 Design】



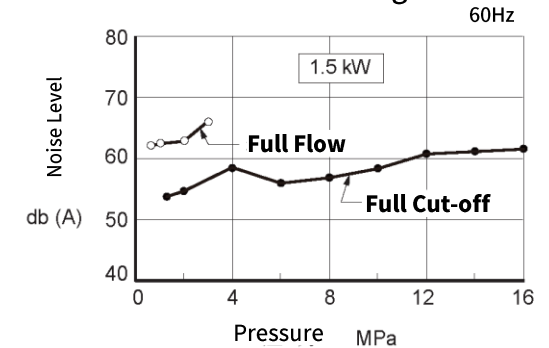
【PM16-40 Design】



【PM16-30 Design】



【PM16-40 Design】

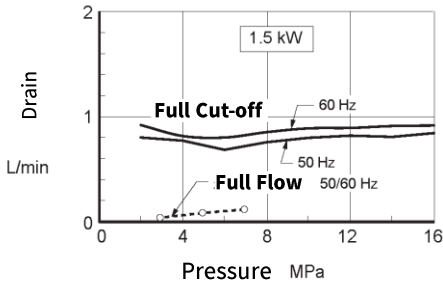


● Drain Volume Characteristics

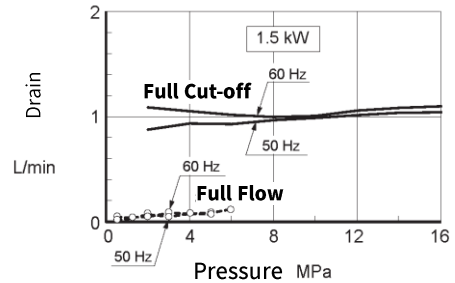
Viscosity: 32 mm²/s Oil Temp.: 40°C Oil Equivalent to ISO VG32

★Measurements taken under the same conditions for both old and new designs.

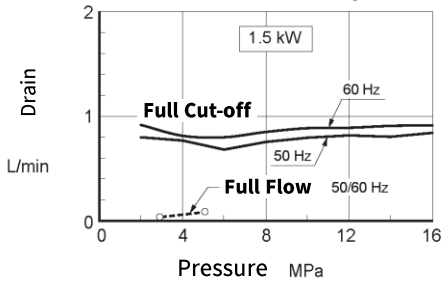
【PM10-31 Design】



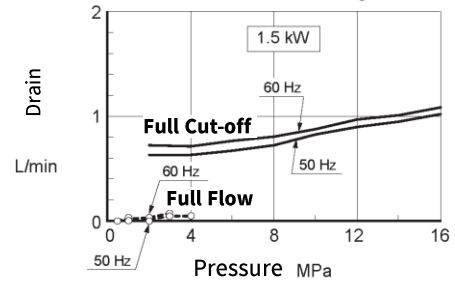
【PM10-40 Design】



【PM16-30 Design】



【PM16-40 Design】

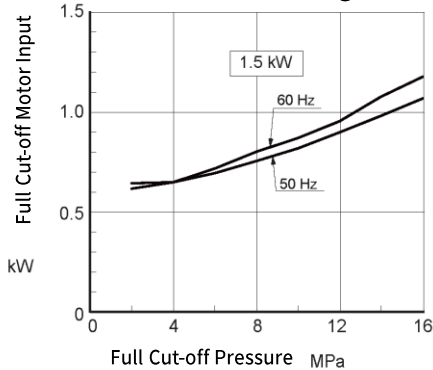


● Full Cut-off Motor Characteristics

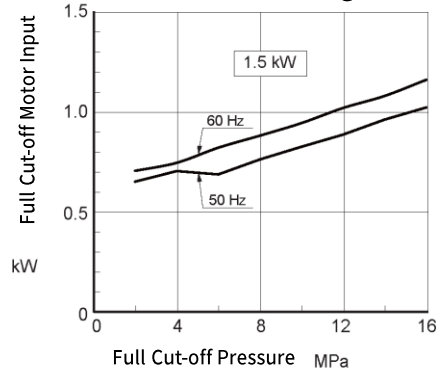
Viscosity: 32 mm²/s Oil Temp.: 40°C Oil Equivalent to ISO VG32

★Measurements taken under the same conditions for both old and new designs.

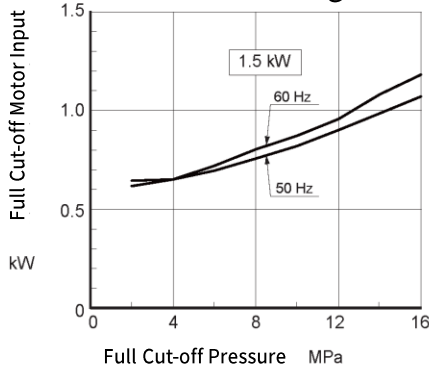
【PM10-31 Design】



【PM10-40 Design】



【PM16-30 Design】



【PM16-40 Design】

