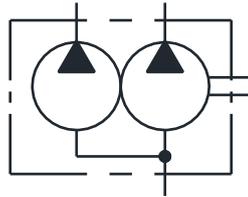


PVM 1050 Series Double Vane Pumps

These double pumps consist of one PVM1T and one PVM50 series single pumps combined in tandem within a single housing and driven by a common shaft. Fluid delivered from the two separate ports can be either supplied to separate or common circuits. These pumps are used in mobile application.

Graphic symbol



Specifications

| Model Number | Small Volume Pump Geometric Displacement cm ³ /rev. | Large Volume Pump Geometric Displacement cm ³ /rev. | Max. Opr. Pressure Kgf/cm ² | Output Flow and Input Power | Shaft Speed Range r/min | | Mass (Approx.) Kg. | |
|--------------|--|--|--|--------------------------------------|-------------------------|------|--------------------|---------------|
| | | | | | Max. | Min. | Flange Mounting | Foot Mounting |
| PVM1050 | Refer Specification in Page No. 103 | Refer Specification in Page No. 123 | 175 | Refer Page 106, 107, 110, 111 & 112* | 2000 | 600 | 17.75 | 20.56 |

* Applicable to Large Volume Pump Model Number PVM50-45 & PVM50-51 refer page no. 125.

Model Number Designation

| F- | PVM1050 | -L | -F | -4 | -39 | -R | E | A | A | -11 | 80H01 |
|--|---------------|--|-------------------------|------------------------------------|--------------------------------------|---|--------------------------------------|--------------------------------------|-----------------------|--------------|------------|
| Special Seals ** | Series Number | Mounting | Type of Pipe Connection | Small Volume Pump Nominal Delivery | Large Volume Pump Nominal Delivery | Direction of Rotation | Small Volume Pump Discharge Position | Large Volume Pump Discharge Position | Suction Port Position | Design No. * | Design Std |
| F: For Phosphate Ester Type Fluids. (omit if not required) | PVM1050 | L: Foot Mounting F: Flange Mounting | F: Flange Connection | 4, 6 8, 10 12, 15 17 | 13, 20 26, 30 36, 39 45, 51 | R: Clockwise (Normal) L: Anticlockwise | | | | 11 | 80H01 |

* Design numbers subject to change from 10 to 19, but installation dimensions remain as shown.

* For instructions regarding changing the port positions, consult CNIP INDIA LTD.

** Before ordering the Special Seals, consult CNIP INDIA LTD.

Cartridge Kit Model Number

Large Volume Pump

| CPVM1050 | -13 | -R | -10H01 |
|--------------|--------------------------------------|---|------------|
| Model Number | Nominal Delivery | Shaft Rotation | Design No. |
| CPVM1050 | 13, 20 26, 30 36, 39 45, 51 | R: Clockwise (Normal) L: Counter-Clockwise | 10H01 |

Small Volume Pump

| CPVM1050 | -4 | -R | -10H01 |
|--------------|-------------------------------|---|------------|
| Model Number | Nominal Delivery | Shaft Rotation | Design No. |
| CPVM1050 | 4, 6 8, 10 12, 15 17 | R: Clockwise (Normal) L: Counter-Clockwise | 10H01 |

* For instructions regarding replacing cartridge kit, consult CNIP INDIA LTD.

Mounting Details

For mounting details please refer page No. 118.

Flanges

Note: Please refer page no. 725 for flange details.

Spare parts list

For list of spares please refer page No. 119.

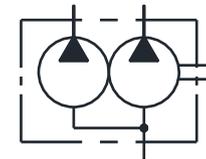
“PVM” Series Double Vane Pumps

PVM 50150 Series Double Vane Pumps

These double pumps consist of one PVM 50 and one PVM 150 series single pumps combined in tandem within a single housing and driven by a common shaft. Fluid delivered from the two separate ports can be either supplied to separate or common circuits. These pumps are used in mobile application.



Graphic symbol



Specifications

| Model Number | Small Volume Pump Geometric Displacement cm ³ /rev. | Large Volume Pump Geometric Displacement cm ³ /rev. | Max. Oper. Pressure Kg/cm ² | Output Flow and Input Power | Shaft Speed Range r/min. | | Mass (Approx) Kg. | |
|--------------|--|--|--|---|--------------------------|------|-------------------|---------------|
| | | | | | Max. | Min. | Flange Mounting | Foot Mounting |
| PVM50150 | Refer Specification in Page No. 123 | Refer Specification in Page No. 126 | 175 | Refer Page 110, 111, 112, 115, 125* & 127* ¹ | 2000* ² | 600 | 42.5 | 49 |

* Applicable to Small Volume Pump Model Number PVM50 – 45 & 51 refer page no. 125.

¹ Applicable to Large Volume Pump Model Number PVM150 - 170 refer page no. 127.

² For speeds above 2000 r/min. consult factory for information.

Model Number Designation

| F- | PVM50150 | -L | -F | -13 | -60 | -R | E | A | A | -15 | 80H01 |
|---|-----------------|--|--------------------------------|--|--|---|--------------------------------------|--------------------------------------|-----------------------|--------------|--------------|
| Special Seals ** | Series Number | Mounting | Type of Pipe Connection | Small Volume Pump Nominal Delivery | Large Volume Pump Nominal Delivery | Direction of Rotation | Small Volume Pump Discharge Position | Large Volume Pump Discharge Position | Suction Port Position | Design No. * | Design Std |
| As viewed from shaft end | | | | | | | | | | | |
| F: For Phosphate Ester Type Fluids (Omit if not required) | PVM50150 | L: Foot Mounting F: Flange Mounting | F: Flange Attachment | 13, 20 26, 30 36, 39 45, 51 | 60, 70 90, 110 140, 170 | R: Clockwise (Normal) L: Counter Clockwise | | | | 15 | 80H01 |

* Design numbers subject to change from 10 to 19, but installation dimensions remain as shown.

* For instructions regarding changing the port positions, consult CNIP INDIA LTD.

** Before ordering the Special Seals, consult CNIP INDIA LTD.

Mounting Details

For mounting details please refer page No. 121.

Flanges

Note: Please refer page no. 725 for flange details.

Spare parts list

For list of spares please refer page No. 122.

Cartridge Kit Model Number

Large Volume Pump

| CPVM150 | -60 | -R | -33H01 |
|--------------|------------------|-----------------------------|------------|
| Model Number | Nominal Delivery | Shaft Rotation | Design No. |
| CPVM150 | 60 | R: Clockwise (Normal) | 33H01 |
| | 70 | | |
| | 80 | | |
| | 90 | L: Counter- Clockwise | |
| | 110 | | |
| | 140 | | |
| | 170 | | |

Small Volume Pump

| CPVM50150 | -13 | -R | -14 |
|--------------|------------------|-----------------------------|------------|
| Model Number | Nominal Delivery | Shaft Rotation | Design No. |
| CPVM50150 | 13 | R: Clockwise (Normal) | 14 |
| | 20 | | |
| | 26 | | |
| | 30 | | |
| | 36 | | |
| | 39 | L: Counter- Clockwise | |
| | 45 | | |
| | 49 | | |
| | 51 | | |

* For instructions regarding replacing cartridge kit, consult CNIP INDIA LTD.

Cartridge Kit Model Number

| Pump Model Numbers | Cartridge Kit Number # | |
|--------------------------------|------------------------|--------------------|
| | Small Volume Pump | Large Volume Pump |
| PVM1050-※-F-10-※-R※※※-1180H01 | CPVM1050-10-R-10H01 | CPVM1050-※-R-10H01 |
| PVM1050-※-F-12-※-R※※※-1180H01 | CPVM1050-12-R-10H01 | |
| PVM1050-※-F-15-※-R※※※-1180H01 | CPVM1050-15-R-10H01 | |
| PVM1050-※-F-17-※-R※※※-1180H01 | CPVM1050-17-R-10H01 | |
| PVM50150-※-F-20-※-R※※※-1580H01 | CPVM50150-20-L-14 | CPVM150-※-R-33H01 |
| PVM50150-※-F-30-※-R※※※-1580H01 | CPVM50150-30-L-14 | |
| PVM50150-※-F-36-※-R※※※-1580H01 | CPVM50150-36-L-14 | |
| PVM50150-※-F-39-※-R※※※-1580H01 | CPVM50150-39-L-14 | |
| PVM50150-※-F-45-※-R※※※-1580H01 | CPVM50150-45-L-14 | |
| PVM50150-※-F-51-※-R※※※-1580H01 | CPVM50150-51-L-14 | |

* For instructions regarding replacing cartridge kit, consult CNIP INDIA LTD.

The above table does not include all combinations of cartridges available.
Only a few representative samples are shown.