



# YUCI HYDRAULIC

MIDDLE AND MIDDLE-HIGH PRESSURE VANE PUMP

Where there are hydraulic transmissions

Where there are YUCI products

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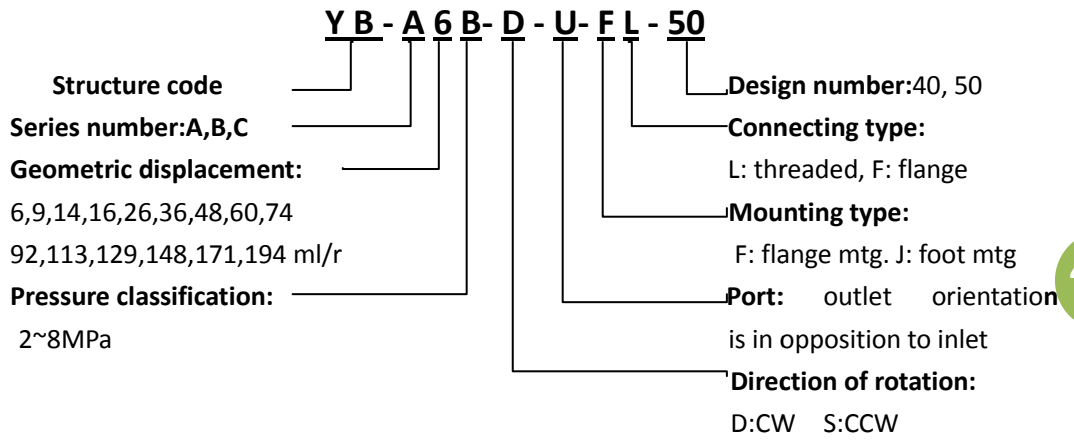
Note: The all details of the products including drawing and efficiency curve, please contact with us.

## MIDDLE AND MIDDLE-HIGH PRESSURE VANE PUMP

### Main Performance Data

| Model and Name  | Geometric Displacement(ml/r)   |                 |                 | Rated Pressure (MPa) | Rotation Speed (r/min) |     |      |
|---|--|-----------------|-----------------|----------------------|------------------------|-----|------|
|   | A  | B               | C               |                      | Rated                  | Min | Max  |
| YB type middle pressure single vane pump                              | 6,9,14,16,26,36  | 48,60,74,92,113 | 129,148,171,194 | 7.0                  | 1000                   | 600 | 2000 |
| YB-Y <sub>2</sub> type middle pressure single vane pump               | 6,9,14,16,26,36  | --              | --              | 7.0                  | 1000                   | 600 | 2000 |
| YB type middle-high pressure mobile vane pump                         | 10,16,20,25,30,32  | 48,58,75,92,114 | --              | 10.5                 | 1500                   | 600 | 2000 |
| Y2B type middle-high pressure two single vane pump                    | 6,9,14,16,26   | 48,60,74        | 129,148,171,194 | 14.0                 | 1000                   | 600 | 1800 |
| YYB type middle pressure double vane pump                             | YYB-AB type composed by one cartridge of YB-A type+ one cartridge of YB-B type                               |                 |                 | 7.0                  | 1000                   | 600 | 1500 |
|   | YYB-AC type composed by one cartridge of YB-A type+ one cartridge of YB-C type                               |                 |                 |                      |                        |     |      |
|   | YYB-BC type composed by one cartridge of YB-B type+ one cartridge of YB-C type                               |                 |                 |                      |                        |     |      |
| YYB-Y <sub>2</sub> type middle pressure double vane pump              | YYB-AA type composed by one cartridge of YB-A-Y <sub>2</sub> type+ one cartridge of YB-A-Y <sub>2</sub> type |                 |                 | 7.0                  | 1000                   | 600 | 2000 |
| YBN type middle-high pressure limited variable displacement vane pump | 0~15   | 0~30            | --              | 7.0                  | 1500                   | 600 | 1800 |
| YBX type middle-high pressure limited variable displacement vane pump | 0~16   | 0~30            | --              | 10.0                 | 1500                   | 600 | 2000 |
| YM type middle pressure vane motor                                    | 19,22,25,28,32   | 67,102          | --              | 6.3                  | --                     | 100 | 2000 |

**YB Type Middle Pressure Single Stage Vane Pump**



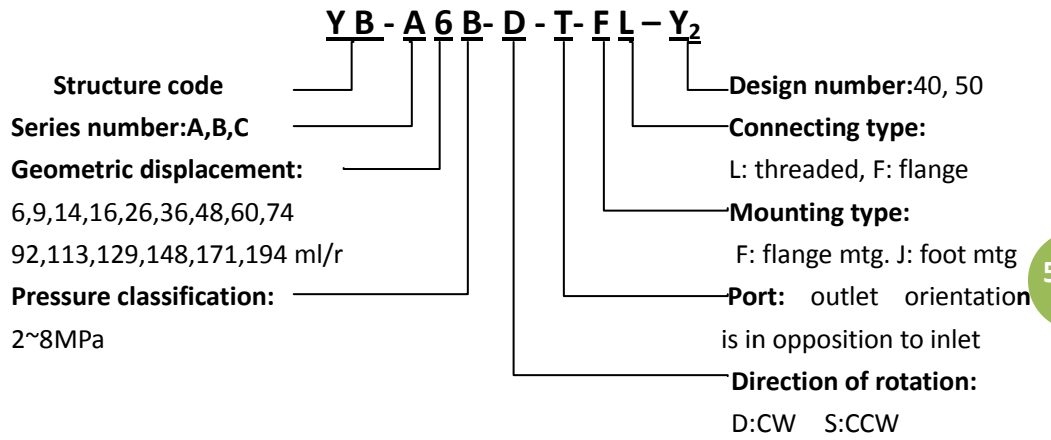
The Pumps are widely used as source of hydraulic power. They combine stable performance and robust construction with a range of delivery rates.

**Main Technical Data**

| Model    | Theoretical Displacement (ml/r) | Rated Pressure MPa | Output Flow (L/min) | Driving Power (kW) | Rotation speed (r/min) |      |      | Weight (kg) |             | Port size (inch) |             |
|----------|---------------------------------|--------------------|---------------------|--------------------|------------------------|------|------|-------------|-------------|------------------|-------------|
|          |                                 |                    |                     |                    | Rated                  | Min. | Max. | Foot mtg.   | Flange mtg. | Inlet port       | Outlet port |
| YB-A6B   | 6.5                             | 7                  | 4.0                 | 1.0                | 1000                   | 800  | 2000 | 10          | 9           | 1"               | 3/4"        |
| YB-A9B   | 9.1                             |                    | 6.9                 | 1.3                |                        |      |      |             |             |                  |             |
| YB-A14B  | 14.5                            |                    | 11.9                | 2.1                |                        |      |      |             |             |                  |             |
| YB-A16B  | 16.3                            |                    | 13.7                | 2.4                |                        |      |      |             |             |                  |             |
| YB-A26B  | 26.1                            |                    | 22.5                | 3.8                |                        |      |      |             |             |                  |             |
| YB-A36B  | 35.9                            |                    | 30.9                | 5.2                |                        |      |      |             |             |                  |             |
| YB-B48B  | 48.3                            | 7                  | 42.7                | 6.9                | 1000                   | 600  | 1500 | 25          | 25          | 1 1/2"           | 1 1/4"      |
| YB-B60B  | 61.0                            |                    | 53.9                | 8.7                |                        |      |      |             |             |                  |             |
| YB-B74B  | 74.8                            |                    | 66.1                | 10.7               |                        |      |      |             |             |                  |             |
| YB-B92B  | 93.5                            |                    | 83.5                | 13.4               |                        |      |      |             |             |                  |             |
| YB-B113B | 115.4                           |                    | 102.8               | 16.5               |                        |      |      |             |             |                  |             |
| YB-C129B | 133.9                           | 7                  | 119.3               | 19.2               | 1000                   | 600  | 1200 | 114         | 110         | 2"               | 1 1/2"      |
| YB-C148B | 153.0                           |                    | 136.3               | 21.9               |                        |      |      |             |             |                  |             |
| YB-C171B | 176.9                           |                    | 157.6               | 25.3               |                        |      |      |             |             |                  |             |
| YB-C194B | 200.9                           |                    | 179.0               | 28.8               |                        |      |      |             |             |                  |             |

**Note: Output flow and driving power in the table are values guaranteed at rated working condition.**

**YB-Y<sub>2</sub> Type Middle Pressure Single Stage Vane Pump**



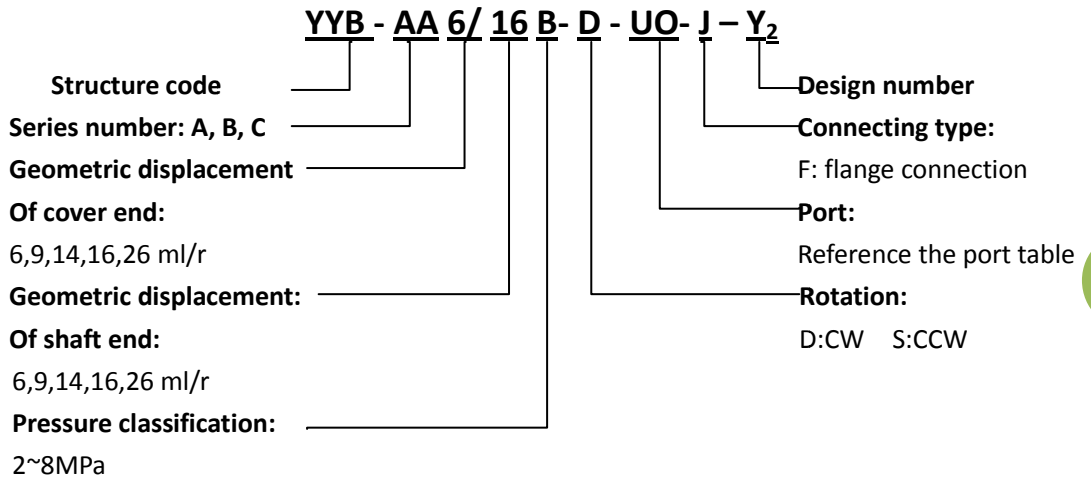
This pump is an improved one from YB type vane pump.

**Main Technical Data**

| Model                  | Theoretical Displacement (ml/r) | Rated Pressure MPa | Output Flow (L/min) | Driving Power (kW) | Rotation speed (r/min) |      |      | Weight (kg) |             | Port size (inch) |             |
|------------------------|---------------------------------|--------------------|---------------------|--------------------|------------------------|------|------|-------------|-------------|------------------|-------------|
|                        |                                 |                    |                     |                    | Rated                  | Min. | Max. | Foot mtg.   | Flange mtg. | Inlet port       | Outlet port |
| YB-A6B-Y <sub>2</sub>  | 6.5                             | 7                  | 4.0                 | 1.0                | 1000                   | 800  | 8    | 6.4         | 1"          | 3/4"             |             |
| YB-A9B-Y <sub>2</sub>  | 9.1                             |                    | 6.9                 | 1.3                |                        |      |      |             |             |                  | 2000        |
| YB-A14B-Y <sub>2</sub> | 14.5                            |                    | 11.9                | 2.1                |                        |      |      |             |             |                  |             |
| YB-A16B-Y <sub>2</sub> | 16.3                            |                    | 13.7                | 2.4                |                        | 600  |      |             |             |                  | 1800        |
| YB-A26B-Y <sub>2</sub> | 26.1                            |                    | 22.5                | 3.8                |                        |      |      |             |             |                  |             |
| YB-A36B-Y <sub>2</sub> | 35.9                            |                    | 30.9                | 5.2                |                        | 1500 |      |             |             |                  |             |



YYB-Y<sub>2</sub> Type Middle Pressure Double Vane Pump

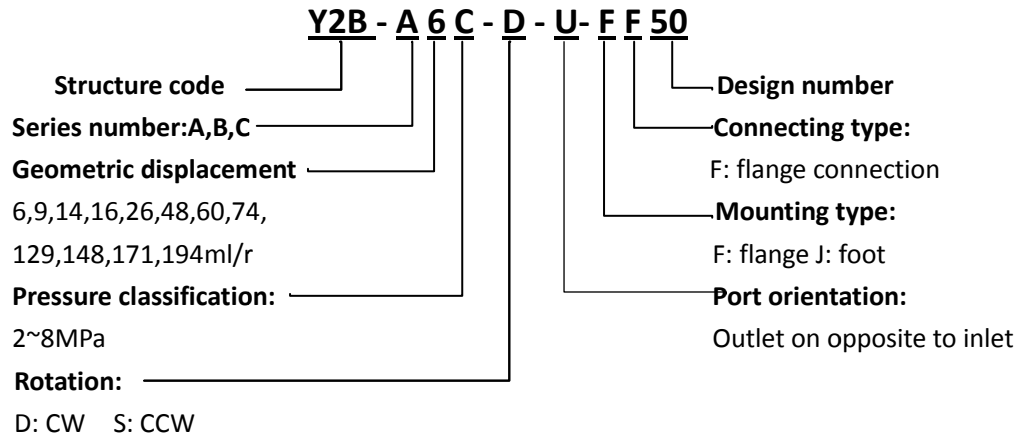


The single pumps driven by a common shaft have one inlet port and two outlet ports so that the output flow can be supplied to separate circuit.

Main Technical Data

| Model                        | Theoretical Displacement (ml/r) |      | Rated Pressure (MPa) |     | Output flow (L/min) |      | Driving power (kW) |     | Rotation speed (r/min) |     |     | Weight (kg) |        | Port size (Z) |        |     |     |     |
|------------------------------|---------------------------------|------|----------------------|-----|---------------------|------|--------------------|-----|------------------------|-----|-----|-------------|--------|---------------|--------|-----|-----|-----|
|                              | C-E                             | S-E  | C-E                  | S-E | C-E                 | S-E  | C-E                | S-E | Rated                  | Min | Max | Foot        | Flange | Inlet         | outlet |     |     |     |
|                              |                                 |      |                      |     |                     |      |                    |     |                        |     |     |             |        | -et           | c-e    | s-e |     |     |
| YYB1-AA6/6B-Y <sub>2</sub>   | 6.5                             | 6.5  | 7                    | 7   | 4.0                 | 4.0  | 1.0                | 1.0 | 1000                   | 800 | 600 | 13          | 11     | 1 1/2         | 3/4    | 3/4 |     |     |
| YYB1-AA6/9B-Y <sub>2</sub>   | 6.5                             | 9.1  |                      |     | 4.0                 | 6.9  | 1.0                | 1.3 |                        |     |     |             |        |               |        |     | 600 |     |
| YYB1-AA9/9B-Y <sub>2</sub>   | 9.1                             |      |                      |     | 6.9                 | 1.3  |                    |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA6/14B-Y <sub>2</sub>  | 6.5                             | 14.5 |                      |     | 4.0                 | 11.9 | 1.0                | 2.1 |                        |     |     |             |        |               |        |     | 800 |     |
| YYB1-AA9/14B-Y <sub>2</sub>  | 9.1                             |      |                      |     | 6.9                 |      | 1.3                |     |                        |     |     |             |        |               |        |     |     | 600 |
| YYB1-AA14/14B-Y <sub>2</sub> | 14.5                            |      |                      |     | 11.9                |      | 2.1                |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA6/16B-Y <sub>2</sub>  | 6.5                             | 16.3 |                      |     | 4.0                 | 13.7 | 1.0                | 2.4 |                        | 800 |     |             |        |               |        |     |     |     |
| YYB1-AA9/16B-Y <sub>2</sub>  | 9.1                             |      |                      |     | 6.9                 |      | 1.3                |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA14/16B-Y <sub>2</sub> | 14.5                            |      |                      |     | 11.9                |      | 2.1                |     |                        | 600 |     |             |        |               |        |     |     |     |
| YYB1-AA16/16B-Y <sub>2</sub> | 16.3                            |      |                      |     | 13.7                |      | 2.4                |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA6/26B-Y <sub>2</sub>  | 6.5                             | 26.1 |                      |     | 4.0                 | 22.5 | 1.0                | 3.8 |                        | 800 |     |             |        |               |        |     |     |     |
| YYB1-AA9/26B-Y <sub>2</sub>  | 9.1                             |      |                      |     | 6.9                 |      | 1.3                |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA14/26B-Y <sub>2</sub> | 14.5                            |      |                      |     | 11.9                |      | 2.1                |     |                        |     | 600 |             |        |               |        |     |     |     |
| YYB1-AA16/26B-Y <sub>2</sub> | 16.3                            |      |                      |     | 13.7                |      | 2.4                |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA26/26B-Y <sub>2</sub> | 26.1                            |      |                      |     | 22.5                |      | 3.8                |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA6/36B-Y <sub>2</sub>  | 6.5                             | 35.9 |                      |     | 4.0                 | 30.9 | 1.0                | 5.2 |                        | 800 |     |             |        |               |        |     |     |     |
| YYB1-AA9/36B-Y <sub>2</sub>  | 9.1                             |      |                      |     | 6.9                 |      | 1.3                |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA14/36B-Y <sub>2</sub> | 14.5                            |      |                      |     | 11.9                |      | 2.1                |     |                        |     | 600 |             |        |               |        |     |     |     |
| YYB1-AA16/36B-Y <sub>2</sub> | 16.3                            |      | 13.7                 | 2.4 |                     |      |                    |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA26/36B-Y <sub>2</sub> | 26.1                            |      | 22.5                 | 3.8 |                     |      |                    |     |                        |     |     |             |        |               |        |     |     |     |
| YYB1-AA36/36B-Y <sub>2</sub> | 35.9                            |      | 30.9                 | 5.2 |                     |      |                    |     |                        |     |     |             |        |               |        |     |     |     |

## Y2B Type Middle-high Pressure Two Stage Vane Pump



The pump is composed by two YB single vane pumps built in a common housing which have one inlet and one outlet. Rated pressure is twice that of single pump. A fixed-ratio reducing valve built between two single pumps makes the pressure difference at inlet and outlet be equal to each other, so that two single pumps may operate under permitted load.

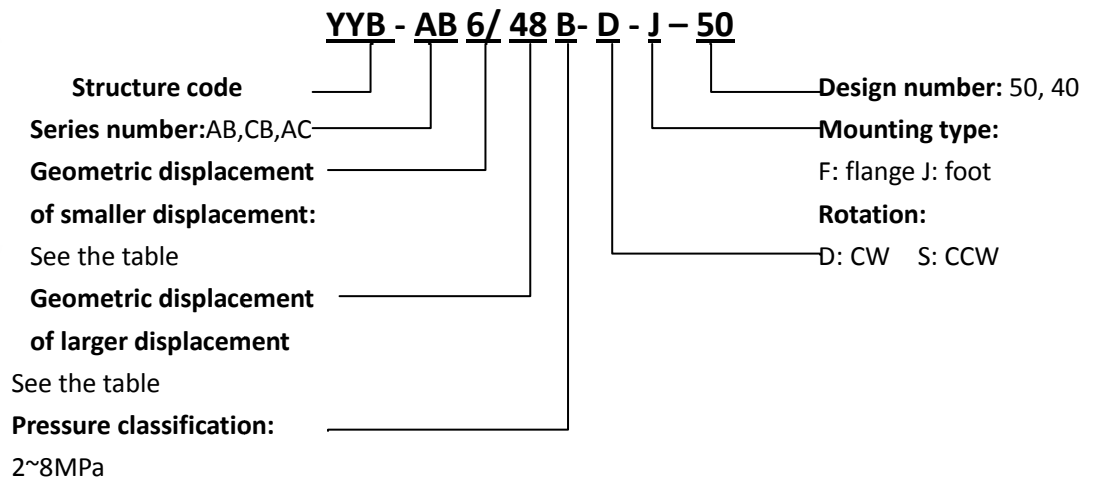
### Main Technical Data

| Model     | Theoretical Displacement (ml/r) | Rated Pressure (MPa) | Output Flow (L/min) | Driving Power (kW) | Rotation speed (r/min) |      |      | Weight (kg) |             | Port size (inch) |             |
|-----------|---------------------------------|----------------------|---------------------|--------------------|------------------------|------|------|-------------|-------------|------------------|-------------|
|           |                                 |                      |                     |                    | Rated                  | Min. | Max. | Foot mtg.   | Flange mtg. | Inlet port       | Outlet port |
| Y2B-A6C   | 6.5                             | 14                   | 2.7                 | 2.4                | 1000                   | 800  | 1800 | 31          | 30          | 1"               | 3/4"        |
| Y2B-A9C   | 9.1                             |                      | 3.8                 | 2.9                |                        |      |      |             |             |                  |             |
| Y2B-14C   | 14.5                            |                      | 8.2                 | 4.1                |                        | 600  |      |             |             |                  |             |
| Y2B-A16C  | 16.3                            |                      | 10.1                | 4.5                |                        |      |      |             |             |                  |             |
| Y2B-A26C  | 26.1                            |                      | 18.6                | 6.7                |                        | 1500 |      |             |             |                  |             |
| Y2B-A48C  | 48.3                            | 14                   | 35.0                | 14.2               | 1000                   | 600  | 1200 | 71          | 68          | 1 1/2"           | 1 1/4"      |
| Y2B-A60C  | 61.0                            |                      | 47.0                | 16.9               |                        |      |      |             |             |                  |             |
| Y2B-A74C  | 74.8                            |                      | 57.6                | 20.6               |                        |      |      |             |             |                  |             |
| Y2B-A129C | 133.9                           | 14                   | 103.2               | 39.5               | 1000                   | 600  | 1200 | 190         | 170         | 2"               | 1 1/2"      |
| Y2B-A148C | 153.0                           |                      | <b>117.9</b>        | <b>44.9</b>        |                        |      |      |             |             |                  |             |
| Y2B-A171C | 176.9                           |                      | <b>136.4</b>        | <b>49.6</b>        |                        |      |      |             |             |                  |             |
| Y2B-A194C | 200.0                           |                      | <b>159.5</b>        | <b>55.0</b>        |                        |      |      |             |             |                  |             |

**Note: Output flow and driving power in the table are values guaranteed at rated working condition.**



## YYB Type Middle Pressure Double Vane Pump



This type pump consists of two single pumps combined tandem within a single housing and drivers by a common shaft. Output flow from the two separate ports or input flow from two separate ports or input flow from a common port can be available.

### Main Performance Table

| Model             | Theoretical Displacement (ml/r)  | Rated Pressure (MPa) | Output flow (L/min) | Driving power (kW) | Rotation speed (r/min) |     |           | Weight (kg) |        | Port size (Z)    |     |                  |                  |
|-------------------|--|----------------------|---------------------|--------------------|------------------------|-----|-----------|-------------|--------|------------------|-----|------------------|------------------|
|                   |  |                      |                     |                    | Rated                  | Min | Max       | Foot        | Flange | Inlet            |     | outlet           |                  |
|                   |  |                      |                     |                    |                        |     |           |             |        | c-e              | s-e | c-e              | s-e              |
| <b>YYB-AB*/*B</b> | YYB-AB type composed by one cartridge of YB-A type+ one cartridge of YB-B type |                      |                     |                    | 1000                   | 600 | 1200~1500 | 60          | 58     | 2"               |     | $\frac{3}{4}$ "  | $1\frac{1}{4}$ " |
| <b>YYB-AC*/*B</b> | YYB-AC type composed by one cartridge of YB-A type+ one cartridge of YB-C type |                      |                     |                    | 1000                   | 600 | 1200      | 119         | 115    | 1"               | 2"  | $\frac{3}{4}$ "  | $1\frac{1}{2}$ " |
| <b>YYB-BC*/*B</b> | YYB-BC type composed by one cartridge of YB-B type+ one cartridge of YB-C type |                      |                     |                    | 1000                   | 600 | 1200      | 142         | 138    | $1\frac{1}{2}$ " | 2"  | $1\frac{1}{4}$ " | $1\frac{1}{2}$ " |

**Main Technical Data**

| Model         | Theoretical Displacement (ml/r) |       | Rated Pressure (MPa) |       | Output flow (L/min) |      | Driving power (kW) |      | Rotation speed (r/min) |     |      | Weight (kg) |        | Port size (Z) |               |                |     |
|---------------|---------------------------------|-------|----------------------|-------|---------------------|------|--------------------|------|------------------------|-----|------|-------------|--------|---------------|---------------|----------------|-----|
|               | C-E                             | S-E   | C-E                  | S-E   | C-E                 | S-E  | C-E                | S-E  | Rated                  | Min | Max  | Foot        | Flange | Inlet         | outlet        |                |     |
| YYB-AB*/*B    |                                 |       |                      |       |                     |      |                    |      |                        |     |      |             |        |               | -et           | c-e            | s-e |
| YYB-AB6/48B   | 6.5                             | 48.3  | 7                    | 7     | 4.0                 | 42.7 | 1.0                | 6.7  | 1000                   | 600 | 1500 | 60          | 58     | 2"            | $\frac{3}{4}$ | $1\frac{1}{4}$ |     |
| YYB-AB9/48B   | 9.1                             |       |                      |       | 6.9                 |      | 1.3                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB14/48B  | 14.5                            |       |                      |       | 11.9                |      | 2.1                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB16/48B  | 16.3                            |       |                      |       | 13.7                |      | 2.4                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB26/48B  | 26.1                            |       |                      |       | 22.5                |      | 3.8                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB36/48B  | 35.9                            |       |                      |       | 30.9                |      | 5.2                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB6/60B   | 6.5                             | 61.0  |                      |       | 4.0                 | 53.9 | 1.0                | 8.7  |                        |     |      |             |        |               |               |                |     |
| YYB-AB9/60B   | 9.1                             |       |                      |       | 6.9                 |      | 1.3                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB14/60B  | 14.5                            |       |                      |       | 11.9                |      | 2.1                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB16/60B  | 16.3                            |       |                      |       | 13.7                |      | 2.4                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB26/60B  | 26.1                            |       |                      |       | 22.5                |      | 3.8                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB36/60B  | 35.9                            |       |                      |       | 30.9                |      | 5.2                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB6/74B   | 6.5                             | 74.8  |                      |       | 4.0                 | 66.1 | 1.0                | 10.7 |                        |     | 1200 |             |        |               |               |                |     |
| YYB-AB9/74B   | 9.1                             |       |                      |       | 6.9                 |      | 1.3                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB14/74B  | 14.5                            |       |                      |       | 11.9                |      | 2.1                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB16/74B  | 16.3                            |       |                      |       | 13.7                |      | 2.4                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB26/74B  | 26.1                            |       |                      |       | 22.5                |      | 3.8                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB36/74B  | 35.9                            |       |                      |       | 30.9                |      | 5.2                |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB6/92B   | 6.5                             | 93.5  | 4.0                  | 83.5  | 1.0                 | 13.4 |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB9/92B   | 9.1                             |       | 6.9                  |       | 1.3                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB14/92B  | 14.5                            |       | 11.9                 |       | 2.1                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB16/92B  | 16.3                            |       | 13.7                 |       | 2.4                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB26/92B  | 26.1                            |       | 22.5                 |       | 3.8                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB36/92B  | 35.9                            |       | 30.9                 |       | 5.2                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB6/113B  | 6.5                             | 115.4 | 4.0                  | 102.8 | 1.0                 | 16.5 |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB9/113B  | 9.1                             |       | 6.9                  |       | 1.3                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB14/113B | 14.5                            |       | 11.9                 |       | 2.1                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB16/113B | 16.3                            |       | 13.7                 |       | 2.4                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB26/113B | 26.1                            |       | 22.5                 |       | 3.8                 |      |                    |      |                        |     |      |             |        |               |               |                |     |
| YYB-AB36/113B | 35.9                            |       | 30.9                 |       | 5.2                 |      |                    |      |                        |     |      |             |        |               |               |                |     |

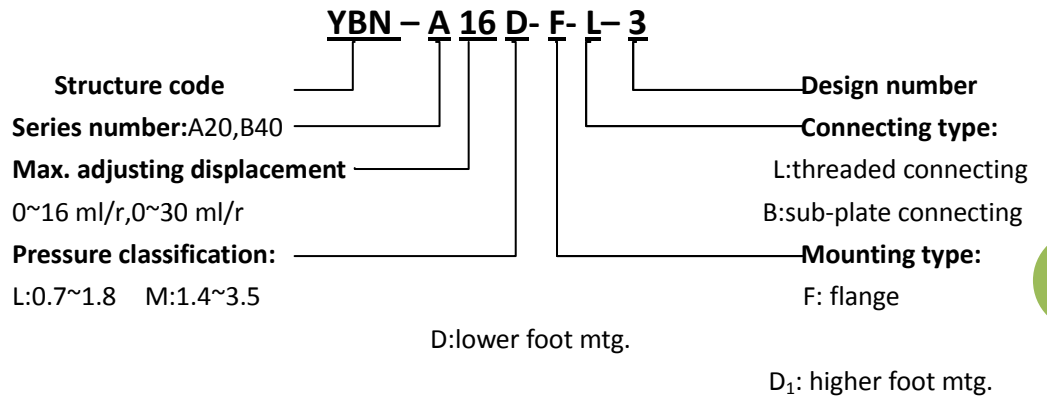
**Main Technical Data**

| Model         | Theoretical Displacement (ml/r) |       | Rated Pressure (MPa) |     | Output flow (L/min) |       | Driving power (kW) |      | Rotation speed (r/min) |     |      | Weight (kg) |        | Port size (Z) |     |        |        |     |
|---------------|---------------------------------|-------|----------------------|-----|---------------------|-------|--------------------|------|------------------------|-----|------|-------------|--------|---------------|-----|--------|--------|-----|
|               | C-E                             | S-E   | C-E                  | S-E | C-E                 | S-E   | C-E                | S-E  | Rated                  | Min | Max  | Foot        | Flange | Inlet         |     | outlet |        |     |
| YYB-AC*/*B    |                                 |       |                      |     |                     |       |                    |      |                        |     |      |             |        |               | c-e | c-e    | s-e    | c-e |
| YYB-AC6/129B  | 6.5                             | 133.9 | 7                    | 7   | 4.0                 | 119.3 | 1.0                | 19.2 | 1000                   | 600 | 1200 | 119         | 115    | 1"            | 2"  | 3/4"   | 1 1/2" |     |
| YYB-AB9/129B  | 9.1                             |       |                      |     | 6.9                 |       | 1.3                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB14/129B | 14.5                            |       |                      |     | 11.9                |       | 2.1                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB16/129B | 16.3                            |       |                      |     | 13.7                |       | 2.4                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB26/129B | 26.1                            |       |                      |     | 22.5                |       | 3.8                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB36/129B | 35.9                            |       |                      |     | 30.9                |       | 5.2                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB6/148B  | 6.5                             | 153.0 | 7                    | 7   | 4.0                 | 136.3 | 1.0                | 21.9 | 1000                   | 600 | 1200 | 119         | 115    | 1"            | 2"  | 3/4"   | 1 1/2" |     |
| YYB-AB9/148B  | 9.1                             |       |                      |     | 6.9                 |       | 1.3                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB14/148B | 14.5                            |       |                      |     | 11.9                |       | 2.1                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB16/148B | 16.3                            |       |                      |     | 13.7                |       | 2.4                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB26/148B | 26.1                            |       |                      |     | 22.5                |       | 3.8                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB36/148B | 35.9                            |       |                      |     | 30.9                |       | 5.2                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB6/171B  | 6.5                             | 176.9 | 7                    | 7   | 4.0                 | 157.6 | 1.0                | 25.3 | 1000                   | 600 | 1200 | 119         | 115    | 1"            | 2"  | 3/4"   | 1 1/2" |     |
| YYB-AB9/171B  | 9.1                             |       |                      |     | 6.9                 |       | 1.3                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB14/171B | 14.5                            |       |                      |     | 11.9                |       | 2.1                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB16/171B | 16.3                            |       |                      |     | 13.7                |       | 2.4                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB26/171B | 26.1                            |       |                      |     | 22.5                |       | 3.8                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB36/171B | 35.9                            |       |                      |     | 30.9                |       | 5.2                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB6/194B  | 6.5                             | 200.9 | 7                    | 7   | 4.0                 | 176.9 | 1.0                | 28.8 | 1000                   | 600 | 1200 | 119         | 115    | 1"            | 2"  | 3/4"   | 1 1/2" |     |
| YYB-AB9/194B  | 9.1                             |       |                      |     | 6.9                 |       | 1.3                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB14/194B | 14.5                            |       |                      |     | 11.9                |       | 2.1                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB16/194B | 16.3                            |       |                      |     | 13.7                |       | 2.4                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB26/194B | 26.1                            |       |                      |     | 22.5                |       | 3.8                |      |                        |     |      |             |        |               |     |        |        |     |
| YYB-AB36/194B | 35.9                            |       |                      |     | 30.9                |       | 5.2                |      |                        |     |      |             |        |               |     |        |        |     |

**Main Technical Data**

| Model          | Theoretical Displacement (ml/r) |       | Rated Pressure (MPa) |     | Output flow (L/min) |       | Driving power (kW) |       | Rotation speed (r/min) |       |      | Weight (kg) |        | Port size (Z) |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
|----------------|---------------------------------|-------|----------------------|-----|---------------------|-------|--------------------|-------|------------------------|-------|------|-------------|--------|---------------|------|--------|--------|--------|-------|------|-----|------|-----|-----|--------|----|--------|--------|--------|--------|------|-----|------|-----|-----|--------|----|--------|--------|
|                | C-E                             | S-E   | C-E                  | S-E | C-E                 | S-E   | C-E                | S-E   | Rated                  | Min   | Max  | Foot        | Flange | Inlet         |      | outlet |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC*/*B     |                                 |       |                      |     |                     |       |                    |       |                        |       |      |             |        |               | c-e  | c-e    | s-e    | c-e    |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC48/129B  | 48.3                            | 133.9 | 7                    | 7   | 42.7                | 119.3 | 6.9                | 19.2  | 1000                   | 600   | 1200 | 142         | 138    | 1 1/2"        | 2"   | 1 1/4" | 1 1/2" |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC60/129B  | 61.0                            |       |                      |     | 53.9                |       | 8.7                |       |                        |       |      |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC74/129B  | 74.8                            |       |                      |     | 66.1                |       | 10.7               |       |                        |       |      |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC92/129B  | 93.5                            |       |                      |     | 85.3                |       | 13.4               |       |                        |       |      |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC113/129B | 115.4                           |       |                      |     | 102.8               |       | 16.5               |       |                        |       |      |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC48/148B  | 48.3                            | 153.0 |                      |     | 7                   | 7     | 42.7               | 136.3 |                        |       |      |             |        |               |      |        |        | 6.9    | 21.9  | 1000 | 600 | 1200 | 142 | 138 | 1 1/2" | 2" | 1 1/4" | 1 1/2" |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC60/148B  | 61.0                            |       |                      |     |                     |       | 53.9               |       |                        |       |      |             |        |               |      |        |        | 8.7    |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC74/148B  | 74.8                            |       |                      |     |                     |       | 66.1               |       |                        |       |      |             |        |               |      |        |        | 10.7   |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC92/148B  | 93.5                            |       |                      |     |                     |       | 85.3               |       |                        |       |      |             |        |               |      |        |        | 13.4   |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC113/148B | 115.4                           |       |                      |     |                     |       | 102.8              |       |                        |       |      |             |        |               |      |        |        | 16.5   |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC48/171B  | 48.3                            | 176.9 |                      |     |                     |       | 7                  | 7     |                        |       |      |             |        |               |      |        |        | 42.7   | 157.6 |      |     |      |     |     |        |    |        |        | 6.9    | 25.3   | 1000 | 600 | 1200 | 142 | 138 | 1 1/2" | 2" | 1 1/4" | 1 1/2" |
| YYB-BC60/171B  | 61.0                            |       |                      |     |                     |       |                    |       |                        |       |      |             |        |               |      |        |        | 53.9   |       |      |     |      |     |     |        |    |        |        | 8.7    |        |      |     |      |     |     |        |    |        |        |
| YYB-BC74/171B  | 74.8                            |       |                      |     |                     |       |                    |       |                        |       |      |             |        |               |      |        |        | 66.1   |       |      |     |      |     |     |        |    |        |        | 10.7   |        |      |     |      |     |     |        |    |        |        |
| YYB-BC92/171B  | 93.5                            |       |                      |     |                     |       |                    |       |                        |       |      |             |        |               |      |        |        | 85.3   |       |      |     |      |     |     |        |    |        |        | 13.4   |        |      |     |      |     |     |        |    |        |        |
| YYB-BC113/171B | 115.4                           |       |                      |     |                     |       |                    |       |                        |       |      |             |        |               |      |        |        | 16.5   |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC48/194B  | 48.3                            | 200.9 | 7                    | 7   |                     |       |                    |       | 102.8                  | 179.0 | 6.9  | 28.8        | 1000   | 600           | 1200 | 142    | 138    | 1 1/2" | 2"    |      |     |      |     |     |        |    |        |        | 1 1/4" | 1 1/2" |      |     |      |     |     |        |    |        |        |
| YYB-BC60/194B  | 61.0                            |       |                      |     |                     |       |                    |       |                        |       | 8.7  |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC74/194B  | 74.8                            |       |                      |     |                     |       |                    |       |                        |       | 10.7 |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC92/194B  | 93.5                            |       |                      |     |                     |       |                    |       |                        |       | 13.4 |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |
| YYB-BC113/194B | 115.4                           |       |                      |     |                     |       |                    |       |                        |       | 16.5 |             |        |               |      |        |        |        |       |      |     |      |     |     |        |    |        |        |        |        |      |     |      |     |     |        |    |        |        |

**YBN Type Middle-high Pressure (Limiting Pressure) Variable Displacement Vane Pump**



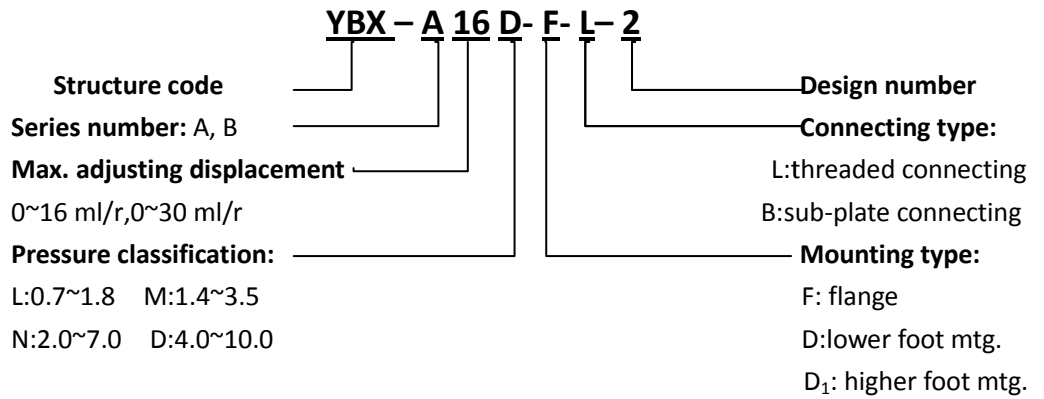
**Note: Reverse rotation pump should be specially specified.**  
 The single pump has the same function and advantage as that of type YBX pump.

**Main Technical Data**

| Model   | Max. displacement(ml/r) | Adjusting pressure range(MPa) | Rotation speed(r/min) |      |      | Driving power (kW) | Weight   |    |                |
|---------|-------------------------|-------------------------------|-----------------------|------|------|--------------------|----------|----|----------------|
|         |                         |                               | Rated                 | Min. | Max. |                    | Mounting |    |                |
|         |                         |                               |                       |      |      |                    | F        | D  | D <sub>1</sub> |
| YBN-A*L | 16                      | 0.7-1.8                       | 1500                  | 600  | 2000 | -                  | -        | -  |                |
| YBN-A*M |                         | 1.4-3.5                       |                       |      |      |                    |          |    |                |
| YBN-A*N |                         | 2.0-7.0                       |                       |      |      |                    |          |    |                |
| YBN-A*D |                         | 4.0-10.0                      |                       |      |      |                    |          |    |                |
| YBN-B*L | 30                      | 0.7-1.8                       | 1500                  | 600  | 1800 | -                  | 30       | 32 |                |
| YBN-B*M |                         | 1.4-3.5                       |                       |      |      |                    |          |    |                |
| YBN-B*N | 25                      | 2.0-7.0                       |                       |      |      |                    |          |    |                |
| YBN-B*D |                         | 4.0-10.0                      |                       |      |      |                    |          |    |                |

**Note: The driving power in the table is the value guaranteed at rotation speed of 1500rpm , the max. pressure and the max. displacement. For output diagram, see that of Type YBX**

**YBX Type Middle-high Pressure Variable Displacement Vane Pump**



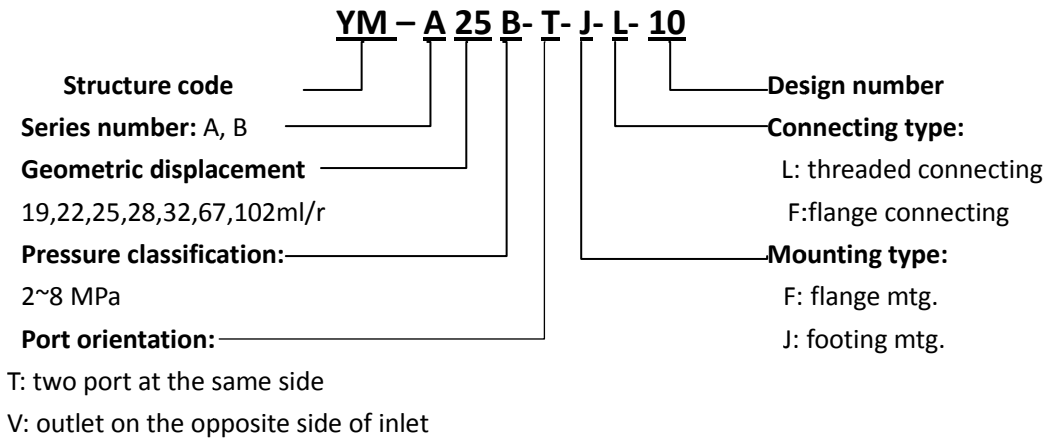
Note: Reverse rotation pump should be specially specified.

**Main Technical Data**

| Model   | Max. displacement(ml/r) | Adjusting pressure range(MPa) | Rotation speed(r/min) |      |      | Driving power (kW) | Weight   |    |                |
|---------|-------------------------|-------------------------------|-----------------------|------|------|--------------------|----------|----|----------------|
|         |                         |                               | Rated                 | Min. | Max. |                    | Mounting |    |                |
|         |                         |                               |                       |      |      |                    | F        | D  | D <sub>1</sub> |
| YBX-A*L | 16                      | 0.7-1.8                       | 1500                  | 600  | 2000 | 7                  | -        | -  |                |
| YBX-A*M |                         | 1.4-3.5                       |                       |      |      |                    |          |    |                |
| YBX-A*N |                         | 2.0-7.0                       |                       |      |      |                    |          |    |                |
| YBX-A*D |                         | 4.0-10.0                      |                       |      |      |                    |          |    |                |
| YBX-B*L | 30                      | 0.7-1.8                       | 1500                  | 600  | 1800 | -                  | 30       | 32 |                |
| YBX-B*M |                         | 1.4-3.5                       |                       |      |      |                    |          |    |                |
| YBX-B*N | 25                      | 2.0-7.0                       |                       |      |      |                    |          |    |                |
| YBX-B*D |                         | 4.0-10.0                      |                       |      |      |                    |          |    |                |

Note: The driving power in the table is the value guaranteed at rotation speed of 1500rpm , the max. pressure and the max. displacement.

**YM Type Middle Pressure Vane Motor**



This motor is one kind of low torque and high-speed hydraulic vane motor. It is mainly used for driving injecting rod of plastics injection machine, grinding-wheel and working-table of internal and external grinding machine, champing and transporting devices of auto-machining line or auto-machine-tool as well as various small follow-up control systems requiring small initial.

**Main Technical Data**

| Model    | Theoretical Displacement (ml/r) | Rated pressure (MPa) | Rotation speed (r/min) |      | Output torque (N·m) | Weight(kg)      |               | Port size |        |
|----------|---------------------------------|----------------------|------------------------|------|---------------------|-----------------|---------------|-----------|--------|
|          |                                 |                      | Max.                   | Min. |                     | Flange mounting | Foot mounting | inlet     | outlet |
| YM-A19B  | 16.3                            | 6.3                  | 2000                   | 100  | 9.7                 | 9.8             | 12.7          | 3/4"      | 3/4"   |
| YM-A22B  | 19.0                            |                      |                        |      | 12.3                |                 |               |           |        |
| YM-A25B  | 21.7                            |                      |                        |      | 14.3                |                 |               |           |        |
| YM-A28B  | 24.5                            |                      |                        |      | 16.1                |                 |               |           |        |
| YM-A32B  | 29.9                            |                      |                        |      | 21.6                |                 |               |           |        |
| YM-B67B  | 61.1                            | 6.3                  | 2000                   | 100  | 43.1                | 25.2            | 31.5          | 1"        | 1"     |
| YM-B102B | 93.6                            |                      |                        |      | 66.9                |                 |               |           |        |

Note: Output torque in the table is the value guaranteed at pressure of 6.3 MPa.

## PIN TYPE VANE PUMP

### General Description

PEF series are fixed displacement and twelve vane pumps featuring cartridge design with integral hydraulic balancing for high pressure operation and long service life at low noise level. These pumps are available as single and multiple configurations.

Mounting according to SEA and ISO 3019 standards. Easy installation as inlet and outlet ports can be orientated in any of four relative positions.

Easy maintenance as the pumping cartridge can be replaced in a few minutes.

Wide variety of displacement is up to 150ml/r. There are 8 series and 75 size of PFE pump including single ones (PEE-31/41/51/32/42/52) and double ones (PFED-4131/5141).

Displacement range: 16.5-150ml/r, (new PEF-21/61,5-250ml/r)

Rated operating pressure: 21-30MPa

Speed: 600-2800rpm





PEF Series Pin Type Vane Pump



**PFE series vane pump:**

**Series number:**

See below table

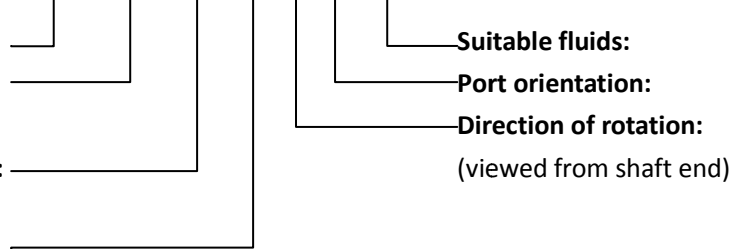
**Geometric displacement:**

See below table

**Shaft extension:**

See below table

**PFE – 21 045 - 1- D- T/ PF**



**Suitable fluids:**

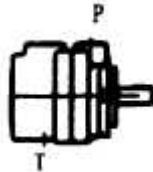
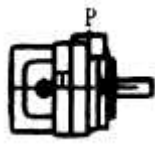
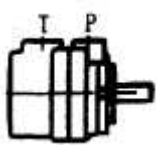
**Port orientation:**

**Direction of rotation:**  
(viewed from shaft end)

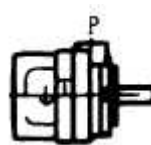
Model Code Details:

| PFE                                     | 21            | 045                           | 1  | D                     | T                                     | /PF  |
|---|---------------|-------------------------------|--|-----------------------|---------------------------------------|--|
| PFE series fixed displacement vane pump | Series number | Geometric displacement (ml/r) | ★ <sup>1</sup><br>Shaft extension  | Direction of rotation | Port orientation                      | Suitable fluids  |
| PFE:<br>single pump series              | 21            | 5,6,8,10,12,16                | 1-Cylindrical type (standard)<br>2-(ISO/DIS3019)<br>3-Cylindrical type (high torque)<br>5-Splined type | D: CW<br>S: CCW       | See port orientation table (T、V、U、W4) | None: petroleum base fluid water glycol fluid<br>/PF: phosphoric ester |
|   | 31            | 16,22,28,36,44                |  |                       |                                       |  |
|   | 41            | 29,37,45,56,70,85             |  |                       |                                       |  |
|   | 51            | 90,110,129,150                |  |                       |                                       |  |
|   | 61            | 160,180,200,224,250           |  |                       |                                       |  |
|   | 22            | 8,10,12                       |  |                       |                                       |  |
|   | 32            | 22,28,36                      |  |                       |                                       |  |
|   | 42            | 45,56,70                      |  |                       |                                       |  |
| 42                                      | 90,110,129    |                               |  |                       |                                       |  |

★<sup>1</sup>If other shaft extension type or displacement is needed, contact with us.



Port  
P:



orientation table: (T: inlet port outlet)

T

V

U

W4

**Main Technical Data (Using and wear hydraulic oil, 24cSt at 50°C)**

PFE series single pump

| Model      | Displacement<br>(ml/r) | Rated pressure<br>(MPa) | Output<br>flow<br>(L/min) | Driving<br>power<br>(kW) | Speed<br>range<br>(r/min) | Weight<br>(kg) | Port size |        |
|------------|------------------------|-------------------------|---------------------------|--------------------------|---------------------------|----------------|-----------|--------|
|            |                        |                         |                           |                          |                           |                | Inlet     | Outlet |
| PFE-21005  | 5.0                    | 21                      | 4.8                       | 3.5                      | 900~3000                  | 6              | 3/4"      | 1/2"   |
| PFE-21006  | 6.3                    |                         | 5.8                       | 4.0                      |                           |                |           |        |
| PFE-21008  | 8.0                    |                         | 7.8                       | 5.5                      |                           |                |           |        |
| PFE-21010  | 10.0                   |                         | 9.7                       | 6.5                      |                           |                |           |        |
| PFE-21012  | 12.5                   |                         | 12.2                      | 8                        |                           |                |           |        |
| PFE-21016  | 16.0                   |                         | 15.6                      | 10                       |                           |                |           |        |
| PFE-31016  | 16.5                   | 21                      | 16                        | 6.5                      | 800~2800                  | 9              | 1 1/4"    | 3/4"   |
| PFE-31022  | 21.6                   |                         | 23                        | 10                       |                           |                |           |        |
| PFE-31028  | 28.1                   |                         | 33                        | 14                       |                           |                |           |        |
| PFE-31036  | 35.6                   |                         | 43                        | 18                       |                           |                |           |        |
| PFE-31044  | 43.7                   |                         | 55                        | 23                       |                           |                |           |        |
| PFE-41029  | 29.3                   | 21                      | 34                        | 14                       | 700~2500                  | 14             | 1 1/2"    | 1"     |
| PFE-41037  | 36.6                   |                         | 45                        | 18                       |                           |                |           |        |
| PFE-41045  | 45.0                   |                         | 57                        | 23                       |                           |                |           |        |
| PFE-41056  | 55.8                   |                         | 72                        | 30                       |                           |                |           |        |
| PFE-41070  | 69.9                   |                         | 91                        | 37                       |                           |                |           |        |
| PFE-41085  | 85.3                   |                         | 114                       | 47                       | 700~2000                  |                |           |        |
| PFE-51090  | 90.0                   | 21                      | 114                       | 47                       | 600~2200                  | 25.5           | 2"        | 1 1/4" |
| PFE-51110  | 109.6                  |                         | 141                       | 58                       |                           |                |           |        |
| PFE-51129  | 129.2                  |                         | 168                       | 69                       |                           |                |           |        |
| PFE-51150  | 150.2                  |                         | 197                       | 80                       | 600~1800                  |                |           |        |
| ※PFE-61160 | 160                    | 21                      | 211                       | 94                       | 600~1800                  | 2 1/2"         | 1 1/2"    |        |
| ※PFE-61180 | 180                    |                         | 237                       | 106                      |                           |                |           |        |
| ※PFE-61200 | 200                    |                         | 264                       | 117                      |                           |                |           |        |
| ※PFE-61224 | 224                    |                         | 295                       | 131                      |                           |                |           |        |

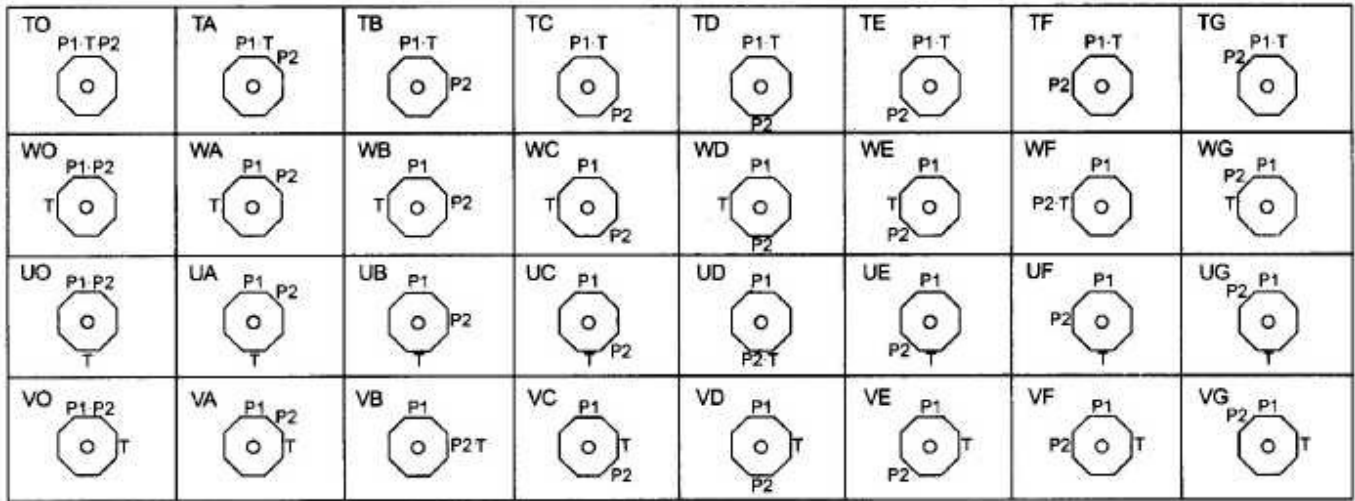
※: No storage, if need, please contact with us.

## PFE-\*2 series single pump

| Model     | Displacement<br>(ml/r) | Rated pressure<br>(MPa) | Output<br>flow<br>(L/min) | Driving<br>power<br>(kW) | Speed<br>range<br>(r/min) | Weight<br>(kg) | Port size         |                   |
|-----------|------------------------|-------------------------|---------------------------|--------------------------|---------------------------|----------------|-------------------|-------------------|
|           |                        |                         |                           |                          |                           |                | Inlet             | Outlet            |
| PFE-32022 | 21.6                   | 30                      | 20                        | 15                       | 1200~2500                 | 9              | 1 $\frac{1}{4}$ " | 3 $\frac{3}{4}$ " |
| PFE-32028 | 28.1                   |                         | 30                        | 21                       |                           |                |                   |                   |
| PFE-32036 | 35.6                   |                         | 40                        | 27                       |                           |                |                   |                   |
| PFE-42045 | 45.0                   | 28                      | 56                        | 31                       | 1000~2200                 | 14             | 1 $\frac{1}{2}$ " | 1"                |
| PFE-42056 | 55.8                   |                         | 70                        | 40                       |                           |                |                   |                   |
| PFE-42070 | 69.9                   | 25                      | 90                        | 47                       |                           |                |                   |                   |
| PFE-52090 | 90.0                   | 25                      | 111                       | 57                       | 1000~2000                 | 25.5           | 2"                | 1 $\frac{1}{4}$ " |
| PFE-52110 | 109.6                  |                         | 128                       | 69                       |                           |                |                   |                   |
| PFE-52129 | 129.2                  |                         | 163                       | 81                       |                           |                |                   |                   |



(as viewed from the shaft end) (None:T=inlet, P<sub>1</sub>=outlet of the first pump,P<sub>2</sub>=outlet of the second pump)



**Main Technical Data (Using and wear hydraulic oil, 24cSt at 50°C)**

PFED series double pump

| Model        | Displacement (ml/r)                                      | Rated pressure (MPa) | output flow (L/min) | Driving power (kW)  | Speed range (r/min) | Weight (kg) | Port size |              |               |
|--------------|--|----------------------|---------------------|---|---------------------|-------------|-----------|--------------|---------------|
|              |  |                      |                     |   |                     |             | Inlet     | First outlet | Second outlet |
| PFED-4131*/* | Composed by cartridge of PFE-41 plus cartridge of PFE-31 |                      |                     | 800~2500<br>(800~2000)<br>The first element speed at the largest displacement | 24.5"               | 2 1/2"      | 1"        | 3/4"         |               |
| PFED-5141*/* | Composed by cartridge of PFE-51 plus cartridge of PFE-41 |                      |                     | 700~2000<br>(700~1800)<br>The first element speed at the largest displacement | 36                  | 3"          | 1 1/4"    | 1"           |               |

Note: 1.Output flow and driving power in the table are the values guaranteed at rated working condition: n=1500rpm, P=P<sub>n</sub>.(rated pressure)  
 2. First element is the shaft end (larger volume) pump, second element is the head end(small volume)pump.

**Model Code Details:**

PFED series (41/31)

| Model            | Theoretical displacement (ml/r) |             | Rated pressure (MPa) |             | Output flow (L/min) |             | Driving power (kW) |             | Speed range (r/min) | Weight (kg) | Port size |              |               |     |
|------------------|---------------------------------|-------------|----------------------|-------------|---------------------|-------------|--------------------|-------------|---------------------|-------------|-----------|--------------|---------------|-----|
|                  | First pump                      | Second pump | First pump           | Second pump | First pump          | Second pump | First pump         | Second pump |                     |             | In-let    | First outlet | Second outlet |     |
| PFED-4131029/016 | 29.3                            | 16.5        | 21                   | 21          | 34                  | 16          | 14                 | 6.5         | 800~<br>2500        | 24.5        | 1 1/2     | 1"           | 3/4           |     |
| PFED-4131029/022 |                                 | 21.6        |                      |             |                     | 23          |                    | 10          |                     |             |           |              |               |     |
| PFED-4131029/028 |                                 | 28.1        |                      |             |                     | 33          |                    | 14          |                     |             |           |              |               |     |
| PFED-4131037/016 | 36.6                            | 16.5        |                      |             | 45                  | 18          | 16                 | 18          |                     |             |           |              |               | 6.5 |
| PFED-4131037/022 |                                 | 21.6        |                      |             |                     |             | 23                 |             |                     |             |           |              |               | 10  |
| PFED-4131037/028 |                                 | 28.1        |                      |             |                     |             | 33                 |             |                     |             |           |              |               | 14  |
| PFED-4131037/036 |                                 | 35.6        |                      |             |                     |             | 43                 |             |                     |             |           |              |               | 18  |
| PFED-4131045/016 | 45.0                            | 16.5        |                      |             | 57                  | 24          | 16                 | 24          |                     |             |           |              |               | 6.5 |
| PFED-4131045/022 |                                 | 21.6        |                      |             |                     |             | 23                 |             |                     |             |           |              |               | 10  |
| PFED-4131045/028 |                                 | 28.1        |                      |             |                     |             | 33                 |             |                     |             |           |              |               | 14  |
| PFED-4131045/036 |                                 | 36.6        |                      |             |                     |             | 43                 |             |                     |             |           |              |               | 18  |
| PFED-4131045/044 |                                 | 43.7        |                      |             |                     |             | 55                 |             |                     |             |           |              |               | 23  |
| PFED-4131056/016 | 55.8                            | 16.5        |                      |             | 72                  | 30          | 16                 | 30          | 6.5                 |             |           |              |               |     |
| PFED-4131056/022 |                                 | 21.6        |                      |             |                     |             | 23                 |             | 10                  |             |           |              |               |     |
| PFED-4131056/028 |                                 | 28.1        |                      |             |                     |             | 33                 |             | 14                  |             |           |              |               |     |
| PFED-4131056/036 |                                 | 35.6        |                      |             |                     |             | 43                 |             | 18                  |             |           |              |               |     |
| PFED-4131056/044 |                                 | 43.7        |                      |             |                     |             | 55                 |             | 23                  |             |           |              |               |     |
| PFED-4131070/016 | 69.9                            | 16.5        |                      |             | 91                  | 37          | 16                 | 37          | 6.5                 |             |           |              |               |     |
| PFED-4131070/022 |                                 | 21.6        | 23                   | 10          |                     |             |                    |             |                     |             |           |              |               |     |
| PFED-4131070/028 |                                 | 28.1        | 33                   | 14          |                     |             |                    |             |                     |             |           |              |               |     |
| PFED-4131070/036 |                                 | 35.6        | 43                   | 18          |                     |             |                    |             |                     |             |           |              |               |     |
| PFED-4131070/044 |                                 | 43.7        | 55                   | 23          |                     |             |                    |             |                     |             |           |              |               |     |
| PFED-4131085/016 | 85.3                            | 16.5        | 114                  | 46          | 16                  | 46          | 6.5                |             |                     |             |           |              |               |     |
| PFED-4131085/022 |                                 | 21.6        |                      |             | 23                  |             | 10                 |             |                     |             |           |              |               |     |
| PFED-4131085/028 |                                 | 28.1        |                      |             | 33                  |             | 14                 |             |                     |             |           |              |               |     |
| PFED-4131085/036 |                                 | 35.6        |                      |             | 43                  |             | 18                 |             |                     |             |           |              |               |     |
| PFED-4131085/044 |                                 | 43.7        |                      |             | 55                  |             | 23                 |             |                     |             |           |              |               |     |

## PFED series (51/41)

| Model            | Theoretical displacement (ml/r) |             | Rated pressure (MPa) |             | Output flow (L/min) |             | Driving power (kW) |              | Speed range (r/min) | Weight (kg) | Port size |                   |               |    |    |
|------------------|---------------------------------|-------------|----------------------|-------------|---------------------|-------------|--------------------|--------------|---------------------|-------------|-----------|-------------------|---------------|----|----|
|                  | First pump                      | Second pump | First pump           | Second pump | First pump          | Second pump | First pump         | Second pump  |                     |             | In-let    | First outlet      | Second outlet |    |    |
| PFED-5141090/029 | 90.0                            | 29.3        | 21                   | 21          | 114                 | 34          | 48                 | 14           | 700~<br>2000        | 36          | 3"        | 1 $\frac{1}{4}$ " | 1"            |    |    |
| PFED-5141090/037 |                                 | 36.6        |                      |             |                     | 45          |                    | 18           |                     |             |           |                   |               |    |    |
| PFED-5141090/045 |                                 | 45.0        |                      |             |                     | 57          |                    | 24           |                     |             |           |                   |               |    |    |
| PFED-5141090/056 |                                 | 55.8        |                      |             |                     | 72          |                    | 30           |                     |             |           |                   |               |    |    |
| PFED-5141090/070 |                                 | 69.9        |                      |             |                     | 91          |                    | 37           |                     |             |           |                   |               |    |    |
| PFED-5141090/085 |                                 | 85.3        |                      |             |                     | 114         |                    | 46           |                     |             |           |                   |               |    |    |
| PFED-5141110/029 | 109.6                           | 29.3        |                      |             | 141                 | 58          | 34                 | 14           |                     |             |           |                   |               | 14 |    |
| PFED-5141110/037 |                                 | 36.6        |                      |             |                     |             | 45                 |              |                     |             |           |                   |               | 18 |    |
| PFED-5141110/045 |                                 | 45.0        |                      |             |                     |             | 57                 |              |                     |             |           |                   |               | 24 |    |
| PFED-5141110/056 |                                 | 55.8        |                      |             |                     |             | 72                 |              |                     |             |           |                   |               | 30 |    |
| PFED-5141110/070 |                                 | 69.9        |                      |             |                     |             | 91                 |              |                     |             |           |                   |               | 37 |    |
| PFED-5141110/085 |                                 | 85.3        |                      |             |                     |             | 114                |              |                     |             |           |                   |               | 46 |    |
| PFED-5141129/029 | 129.2                           | 29.3        |                      |             |                     | 168         | 69                 | 34           |                     |             |           |                   |               | 14 | 14 |
| PFED-5141129/037 |                                 | 36.6        |                      |             |                     |             |                    | 45           |                     |             |           |                   |               |    | 18 |
| PFED-5141129/045 |                                 | 45.0        |                      |             |                     |             |                    | 57           |                     |             |           |                   |               |    | 24 |
| PFED-5141129/056 |                                 | 55.8        |                      |             |                     |             |                    | 72           |                     |             |           |                   |               |    | 30 |
| PFED-5141129/070 |                                 | 69.9        |                      |             |                     |             |                    | 91           |                     |             |           |                   |               |    | 37 |
| PFED-5141129/085 |                                 | 85.3        |                      |             |                     |             |                    | 114          |                     |             |           |                   |               |    | 46 |
| PFED-5141150/029 | 150.2                           | 29.3        | 197                  | 80          | 34                  | 14          | 14                 | 700~<br>1800 |                     |             |           |                   |               |    |    |
| PFED-5141150/037 |                                 | 36.6        |                      |             | 45                  |             | 18                 |              |                     |             |           |                   |               |    |    |
| PFED-5141150/045 |                                 | 45.0        |                      |             | 57                  |             | 24                 |              |                     |             |           |                   |               |    |    |
| PFED-5141150/056 |                                 | 55.8        |                      |             | 72                  |             | 30                 |              |                     |             |           |                   |               |    |    |
| PFED-5141150/070 |                                 | 69.9        |                      |             | 91                  |             | 37                 |              |                     |             |           |                   |               |    |    |
| PFED-5141150/085 |                                 | 85.3        |                      |             | 114                 |             | 46                 |              |                     |             |           |                   |               |    |    |

## PEF Series Cartridge



(Cartridge of PFE series pumps)

(Component of PFE series pump)

### Cartridge model code: PFE-31036

Single pump model including series number, geometric displacement and rotation

#### Note for PFE series vane pump:

##### ☆Replacing pump cartridge:

If pump failed to work, it is only necessary to replace the pump cartridge with new one. When replacing, be careful to keep seals in position so as to avoid edge cutting. Fixing screws for pump housing should be gradually tightened in diagonal line direction and with an even force.

##### ☆Ordering procedure:

Order pump by full model designation devised from the previous code table.

Example:

Single pump: PFE-41045/1DT/PF

Double pump: PEFD-4131045/0.6/1DTO/PF

##### ☆This product is in conformity with the following standards:

JB/T5001-1994

JB/T5002-1994