Equipment and solutions

# JMV-V Dual

## Hydropneumatic System

## with Variable Speed Drive

**Product technical datasheet**

Dual automatic hydropneumatic system with variable speed drive for constant pressure.

FT-P105 · Rev. 1




The JMV-V Dual Hydropneumatic Systems are equipped with variable speed drives, maintaining constant network pressure with maximum energy efficiency. Consisting of two MV series pumps connected in parallel, the system manages operation in cascade with alternation, providing.

## Applications

- Hydropneumatic systems.
- Water supply in domestic installations
- Civil and industrial systems use
- Industrial processes and pressurization systems.

## Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

| | |
|---|---|
| **Engineering note** | Confirm the installation conditions, power supply and duty point before commissioning. |
| **Complementary equipment** | Contact JOVAL for compatible accessories and equipment. |
| **Resources and support** | Pump selection guide · JOVAL technical support |
| **Contact** | +351 253 490 740 · joval@joval.pt |

# Technical specifications

Type

Automatic twin-pump hydropneumatic booster sets

Series

2 - JMV-V (MV Series)

Control

Variable speed drive

Components

2 electric pumps in parallel

Protection

Full protection against overload, dry running and overvoltage

Cooling

Cooled by pumped liquid

Applications

- Hydropneumatic systems.
- Water supply in domestic installations
- Civil and industrial systems use
- Industrial processes and pressurization systems.

# Operating conditions

- Confirm the installation conditions, power supply and duty point before commissioning.

**Engineering note** Confirm the installation conditions, power supply and duty point before commissioning.

# Series 2 (2 · JMV-V) · 1/2

Dimensions and models

| Model | kW | HP | V | Amp (A) | Head Pressure (m) | Flow Rate (l/h) |
|---|---|---|---|---|---|---|
| **2 - JMV 2-4M - V** | 0.55 | 0.75 | 230 | 3.5 | 40 - 10 | 1.200 - 8.400 |
| **2 - JMV 2-5M - V** | 0.55 | 0.75 | 230 | 3.5 | 50 - 12 | 1.200 - 8.400 |
| **2 - JMV 2-6M - V** | 0.75 | 1 | 230 | 4.4 | 62 - 15 | 1.200 - 8.400 |
| **2 - JMV 2-7M - V** | 1.1 | 1.5 | 230 | 6.3 | 74 - 18 | 1.200 - 8.400 |
| **2 - JMV 2-8M - V** | 1.1 | 1.5 | 230 | 6.3 | 84 - 20 | 1.200 - 8.400 |
| **2 - JMV 2-9M - V** | 1.5 | 2 | 230 | 8.4 | 95 - 23 | 1.200 - 8.400 |
| **2 - JMV 2-10M - V** | 1.5 | 2 | 230 | 8.4 | 105 - 25 | 1.200 - 8.400 |
| **2 - JMV 2-11M - V** | 1.5 | 2 | 230 | 8.4 | 116 - 28 | 1.200 - 8.400 |
| **2 - JMV 2-4T - V** | 0.55 | 0.75 | 400 | 1.4 | 40 - 10 | 1.200 - 8.400 |

# Series 2 (2 · JMV-V) · 2/2

Dimensions and models

| Model | kW | HP | V | Amp (A) | Head Pressure (m) | Flow Rate (l/h) |
|---|---|---|---|---|---|---|
| **2 - JMV 2-5T - V** | 0.55 | 0.75 | 400 | 1.4 | 50 - 12 | 1.200 - 8.400 |
| **2 - JMV 2-6T - V** | 0.75 | 1 | 400 | 1.7 | 62 - 15 | 1.200 - 8.400 |
| **2 - JMV 2-7T - V** | 1.1 | 1.5 | 400 | 2.4 | 74 - 18 | 1.200 - 8.400 |
| **2 - JMV 2-8T - V** | 1.1 | 1.5 | 400 | 2.4 | 84 - 20 | 1.200 - 8.400 |
| **2 - JMV 2-9T - V** | 1.5 | 2 | 400 | 3.2 | 95 - 23 | 1.200 - 8.400 |
| **2 - JMV 2-10T - V** | 1.5 | 2 | 400 | 3.2 | 105 - 25 | 1.200 - 8.400 |
| **2 - JMV 2-11T - V** | 1.5 | 2 | 400 | 3.2 | 116 - 28 | 1.200 - 8.400 |
| **2 - JMV 2-12T - V** | 2.2 | 3 | 400 | 5 | 126 - 30 | 1.200 - 8.400 |
| **2 - JMV 2-13T - V** | 2.2 | 3 | 400 | 5 | 137 - 33 | 1.200 - 8.400 |

# Series 3 (2 · JMV-V) · 1/2

Dimensions and models

| Model | kW | HP | V | Amp (A) | Head Pressure (m) | Flow Rate (l/h) |
|---|---|---|---|---|---|---|
| **2 - JMV 3-3M - V** | 0.55 | 0.75 | 230 | 3.5 | 30 - 11 | 1.200 - 9.600 |
| **2 - JMV 3-4M - V** | 0.55 | 0.75 | 230 | 3.5 | 41 - 15 | 1.200 - 9.600 |
| **2 - JMV 3-5M - V** | 0.75 | 1 | 230 | 4.4 | 53 - 20 | 1.200 - 9.600 |
| **2 - JMV 3-6M - V** | 1.1 | 1.5 | 230 | 6.3 | 65 - 24 | 1.200 - 9.600 |
| **2 - JMV 3-7M - V** | 1.1 | 1.5 | 230 | 6.3 | 76 - 28 | 1.200 - 9.600 |
| **2 - JMV 3-8M - V** | 1.5 | 2 | 230 | 8.4 | 87 - 32 | 1.200 - 9.600 |
| **2 - JMV 3-9M - V** | 1.5 | 2 | 230 | 8.4 | 98 - 36 | 1.200 - 9.600 |
| **2 - JMV 3-10M - V** | 1.5 | 2 | 230 | 8.4 | 62 - 17 | 1.200 - 8.400 |
| **2 - JMV 3-3T - V** | 0.55 | 0.75 | 400 | 1.4 | 30 - 11 | 1.200 - 9.600 |
| **2 - JMV 3-4T - V** | 0.55 | 0.75 | 400 | 1.4 | 41 - 15 | 1.200 - 9.600 |

# Series 3 (2 · JMV-V) · 2/2

Dimensions and models

| Model | kW | HP | V | Amp (A) | Head Pressure (m) | Flow Rate (l/h) |
|---|---|---|---|---|---|---|
| **2 - JMV 3-5T - V** | 0.75 | 1 | 400 | 1.7 | 53 - 20 | 1.200 - 9.600 |
| **2 - JMV 3-6T - V** | 1.1 | 1.5 | 400 | 2.4 | 65 - 24 | 1.200 - 9.600 |
| **2 - JMV 3-7T - V** | 1.1 | 1.5 | 400 | 2.4 | 76 - 28 | 1.200 - 9.600 |
| **2 - JMV 3-8T - V** | 1.5 | 2 | 400 | 3.2 | 87 - 32 | 1.200 - 9.600 |
| **2 - JMV 3-9T - V** | 1.5 | 2 | 400 | 3.2 | 98 - 36 | 1.200 - 9.600 |
| **2 - JMV 3-10T - V** | 1.5 | 2 | 400 | 3.2 | 62 - 17 | 1.200 - 8.400 |
| **2 - JMV 3-11T - V** | 2.2 | 3 | 400 | 5 | 120 - 44 | 1.200 - 9.600 |
| **2 - JMV 3-12T - V** | 2.2 | 3 | 400 | 5 | 131 - 48 | 1.200 - 9.600 |
| **2 - JMV 3-13T - V** | 2.2 | 3 | 400 | 5 | 141 - 52 | 1.200 - 9.600 |

# Series 5 (2 · JMV-V)

Dimensions and models

| Model | kW | HP | V | Amp (A) | Head Pressure (m) | Flow Rate (l/h) |
|---|---|---|---|---|---|---|
| **2 - JMV 5-3M - V** | 0.55 | 0.75 | 230 | 3.5 | 34 - 12 | 2.400 - 15.000 |
| **2 - JMV 5-4M - V** | 0.75 | 1 | 230 | 4.4 | 45 - 15 | 2.400 - 15.000 |
| **2 - JMV 5-5M - V** | 1.1 | 1.5 | 230 | 6.3 | 57 - 19 | 2.400 - 15.000 |
| **2 - JMV 5-6M - V** | 1.1 | 1.5 | 230 | 6.3 | 68 - 23 | 2.400 - 15.000 |
| **2 - JMV 5-7M - V** | 1.5 | 2 | 230 | 8.4 | 81 - 35 | 2.400 - 15.000 |
| **2 - JMV 5-3T - V** | 0.55 | 0.75 | 400 | 1.4 | 34 - 12 | 2.400 - 15.000 |
| **2 - JMV 5-4T - V** | 0.75 | 1 | 400 | 1.7 | 45 - 15 | 2.400 - 15.000 |
| **2 - JMV 5-5T - V** | 1.1 | 1.5 | 400 | 2.4 | 57 - 19 | 2.400 - 15.000 |
| **2 - JMV 5-6T - V** | 1.1 | 1.5 | 400 | 2.4 | 68 - 23 | 2.400 - 15.000 |
| **2 - JMV 5-7T - V** | 1.5 | 2 | 400 | 3.2 | 81 - 35 | 2.400 - 15.000 |
| **2 - JMV 5-8T - V** | 2.2 | 3 | 400 | 5 | 92 - 40 | 2.400 - 15.000 |
| **2 - JMV 5-9T - V** | 2.2 | 3 | 400 | 5 | 104 - 45 | 2.400 - 15.000 |
| **2 - JMV 5-10T - V** | 2.2 | 3 | 400 | 5 | 115 - 50 | 2.400 - 15.000 |
| **2 - JMV 5-11T - V** | 2.2 | 3 | 400 | 5 | 127 - 55 | 2.400 - 15.000 |
| **2 - JMV 5-12T - V** | 3 | 4 | 400 | 5.9 | 140 - 61 | 2.400 - 15.000 |
| **2 - JMV 5-13T - V** | 3 | 4 | 400 | 5.9 | 152 - 66 | 2.400 - 15.000 |

# Series 10 (2 · JMV-V)

Dimensions and models

| Model | kW | HP | V | Amp (A) | Head Pressure (m) | Flow Rate (l/h) |
|---|---|---|---|---|---|---|
| **2 - JMV 10-2M - V** | 0.75 | 1 | 230 | 4.4 | 23 - 1 | 2.400 - 30.000 |
| **2 - JMV 10-3M - V** | 1.1 | 1.5 | 230 | 6.3 | 34 - 4 | 2.400 - 30.000 |
| **2 - JMV 10-4M - V** | 1.5 | 2 | 230 | 8.4 | 44 - 9 | 2.400 - 30.000 |
| **2 - JMV 10-2T - V** | 0.75 | 1 | 400 | 1.7 | 23 - 1 | 2.400 - 30.000 |
| **2 - JMV 10-3T - V** | 1.1 | 1.5 | 400 | 2.4 | 34 - 4 | 2.400 - 30.000 |
| **2 - JMV 10-4T - V** | 1.5 | 2 | 400 | 3.2 | 44 - 9 | 2.400 - 30.000 |
| **2 - JMV 10-5T - V** | 2.2 | 3 | 400 | 5 | 60 - 15 | 2.400 - 30.000 |
| **2 - JMV 10-6T - V** | 2.2 | 3 | 400 | 5 | 72 - 18 | 2.400 - 30.000 |
| **2 - JMV 10-7T - V** | 3 | 4 | 400 | 5.9 | 84 - 21 | 2.400 - 30.000 |