

# Walcom™ WM 360 Series Pump Systems



## Efficient pump systems provide consistent delivery of liquid adhesives and maximize production flexibility.

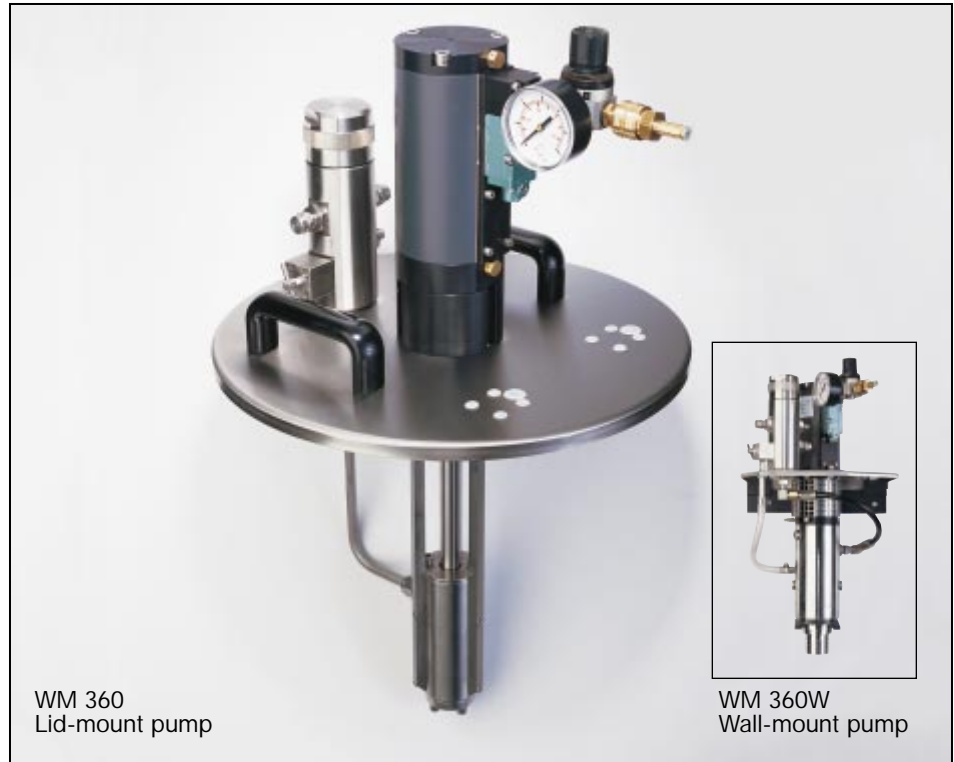
Walcom WM 360 series pump systems from Nordson Corporation feature dual-acting piston pumps and pressure regulators to match specific production needs. An effective circulating pump design protects liquid adhesive bonding characteristics and reduces shear.

These versatile pumps efficiently handle a wide range of liquid adhesive types, viscosities and pattern requirements with superior bonding results. The configurable systems overcome typical production constraints caused from pressure drops in line speed variation and vertical or long-distance material transfer.

The WM 360 lid-mount pumps are available in two air-to-fluid pressure ratios and pump from 20, 30 or 200-liter (5- or 55-gallon) containers. The standard 12:1 ratio pump accommodates low- or high-speed, and constant- or variable-speed operations. The 6:1 ratio pump efficiently handles low-volume operations, pressure-sensitive and low-viscosity adhesives.

The WM 360W wall-mount version permits pumping over long distances from reservoirs or existing plant overhead distribution systems. The pump draws adhesive through an efficient inlet tube arrangement to recycle adhesive into the system.

The WM 360W avoids container adhesive skinning that can result in cured material in the system. The wall-mount pump is available with a 12:1 air-to-fluid pressure ratio.



WM 360  
Lid-mount pump

WM 360W  
Wall-mount pump

## Superior design provides reliable bonding performance.

- Balanced air motor design provides constant adhesive delivery up to 18 liters per hour (4.8 gal/hr).
- Rapid-reverse air motor minimizes pump wink even at low pressures.
- Gasket-free hydraulic pump design constantly recirculates adhesive, even when guns are off, to reduce shearing and protect bonding characteristics.
- WM 370 hydraulic pressure regulators provide accurate flow-back relief during emergency stops to avoid hammer heads. Interchangeable ratio rings simplify changeovers and maintain adhesive regulation, regardless of viscosity.
- For precise bead volume control in high- or variable-speed production, WM 350 hydraulic pressure regulators provide premium flow control during emergency stops.

- Integrated filter removes contaminants that can negatively affect bonding performance.

## Long service life reduces maintenance costs.

- Use of stainless steel and engineered plastics on all wetted pump and regulator parts provides corrosion and leakage protection to extend service life and reduce downtime.
- Integrated purge valve flushes adhesive back into the system to reduce cleaning time.
- Air-driven operation is safe for solvent-based adhesives.
- Pumps comply with major approval codes worldwide, including CE, UL and CSA.

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## Specifications

### WM 360 Series Piston Pumps

#### Operating Fluid Pressure Range:

12:1 WM 360, WM 360W	48 bar (705 psi)
6:1 WM 360	24 bar (353 psi)

Pumping Rate: 0.3 L/min (0.08 gal/min)

#### Minimum Operating Pressure:

0.4 bar (5.9 psi)

#### Maximum Operating Pressure:

4 bar (59 psi)

#### Minimum Air Line ID Recommended:

8 mm (0.31 in.)

#### Output Threading:

1/2 in. UNF-20

#### Air Consumption:

12:1 WM 360, WM 360W	6 L/min (0.21 scfm)
6:1 WM 360	3 L/min (0.11 scfm)

#### Ambient Temperature:

1° to +50° C  
(33° to +120° F)

#### Sound Intensity:

<70 dB (A)

#### Suction Lift (wet):

1.5 m (±3000 cps)

#### Weight:

WM 360	13 kg (28.7 lb)
WM 360W	16 kg (35.3 lb)

### WM 370 Pressure Regulators

#### Ratio Ring Diameter:

WM 370-35	35 mm (1.38 in.)
WM 370-55	55 mm (2.16 in.)
WM 370-75	75 mm (2.95 in.)

#### Maximum Hydraulic Pressure:

WM 370-35	12 bar (176 psi)
WM 370-55	30 bar (441 psi)
WM 370-75	50 bar (735 psi)

#### Pneumatic Regulation Range:

0 to 6 bar (0 to 88 psi)

#### Hydraulic Input and Output Threading:

1/4 in. G

#### Flow-Back Threading:

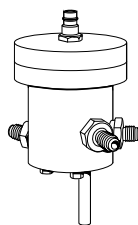
1/4 in. G

#### Maximum Operating Temperature:

50° C (120° F)

#### Weight:

3.5 kg (7.7 lb)



### WM 350 Pressure Regulators

#### Pressure Ratio:

WM 351	0.8:1
WM 352	2.4:1
WM 353	3.4:1
WM 354	8:1

#### Maximum Hydraulic Pressure:

90 bar (1323 psi)

#### Pneumatic Regulation Range:

0 to 8 bar (0 to 118 psi)

#### Hydraulic Input and Output Threading:

WM 351, 352	1/4 in. NPT
WM 353, 354	3/8 in. NPT

#### Flow-Back Threading:

1/4 in. NPT

#### Maximum Operating Temperature:

60° C (140° F)

#### Weight:

WM 351	2 kg (4.4 lb)
WM 352	3 kg (6.6 lb)
WM 353	4 kg (8.8 lb)
WM 354	5 kg (11.0 lb)



## Dimensions

### WM 360W

#### Wall-Mount Piston Pump

Dimension mm (in.)	WM 360W
Width	330 (13.0)
Height	580 (22.8)
Depth	205 (8.1)

### WM 360 Lid-Mount Piston Pumps

Dimension mm (in.)	30 L	20 L (5 gal)	200 L (55 gal)
Diameter	400 (15.7)	314 (12.4)	600 (23.6)
Bottom Height	365 (14.4)	344 (13.5)	365 (14.4)

### Pressure Regulators

Dimension mm (in.)	WM 370-35	WM 370-55	WM 370-75	WM 351	WM 352	WM 353	WM 354
Diameter	124.5 (4.9)			50 (2.0)	78 (3.1)		131 (5.2)
Height	90 (3.5)		120 (4.7)	125 (4.9)	158 (6.2)	230 (9.1)	280 (11.0)

For more information, talk with your Nordson representative or contact your Nordson regional office.



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