Ideally Suited for the Refuse Market

Both our MHUP series Unloader Pumps and MDV series Dry Valve Pumps are engineered for fleets/vehicles running residential refuse routes with rear, side or front loaders. The MHUP can be retrofitted on existing packers without major system changes. The integral 12 VDC solenoid can be operated from the cab, allowing the operator to shift the pump from the work mode to standby mode more efficiently. The rugged 4 bolt mounting can be installed at the PTO or front mounting off the crankshaft.

For a practical solution to stopping the vehicle & shifting to engage the PTO, we have our MDV Dry Valve Pump. Ideal for refuse packers, snow and ice equipment and many other mobile applications, the MDV can reduce fuel costs and operator fatigue.

- Heavy Duty Roller Bearing Design
- High Strength Steel Gear & Shaft Sets
- Multiple gear sizes available
- The MHUP can be operated from the cab
- Our MHUP series can be retrofitted onto existing packers without major changes
- Our MDV valve can reduce fuel costs and operator fatigue
- Pressures up to 3000 psi
- Speeds up to 2500 rpm
MHUP Series Unloader Pump

MODEL CODE BREAKDOWN

- **Model**: MHUP - 4 - 27 - K - S - L - LPV - 35
- **Flow Limiter**:
  - 25 = 25 gpm (95 lpm)
  - 30 = 30 gpm (114 lpm)
  - 35 = 35 gpm (132 lpm)
  - 40 = 40 gpm (151 lpm)
  - 45 = 45 gpm (170 lpm)
  - 50 = 50 gpm (189 lpm)
  - 55 = 55 gpm (208 lpm)
  - 60 = 60 gpm (227 lpm)
- **Live Pack**: LPV = Live Pack Pump Control
- **Rotation**:
  - R = Right - Clockwise
  - L = Left - Counter-clockwise
- **Port Type**:
  - S = Split Flange
    - 1-1/2” Inlet (27) 1-1/4” Outlet (All)
    - 2” Inlet (31, 35, 40) 1-1/4” Bypass (All)

FEATURES

- Ideally suited for the Refuse Market
- Heavy duty roller bearing design
- 4 different gear sizes available
- MHUP can be operated from the cab
- Can be retrofitted onto existing packers without major changes
- Pressures up to 3000 psi
- Speeds up to 2500 rpm
- High Strength Steel Gear & Shaft Sets

SPECIFICATIONS

<table>
<thead>
<tr>
<th>PUMP SERIES</th>
<th>DISPLACEMENT (IN³ / CM³)</th>
<th>MAX RPM</th>
<th>MIN RPM</th>
<th>FLOW AT 1000 RPM (GPM / LPM)</th>
<th>MAX PRESSURE (PSI)</th>
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</thead>
<tbody>
<tr>
<td>MHUP 27</td>
<td>6.1 / 102</td>
<td>2500</td>
<td>800</td>
<td>27 / 102</td>
<td>3000</td>
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<tr>
<td>MHUP 31</td>
<td>7.11 / 117</td>
<td>2500</td>
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<td>31 / 117</td>
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<tr>
<td>MHUP 35</td>
<td>8.2 / 132</td>
<td>2400</td>
<td>800</td>
<td>35 / 132</td>
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<tr>
<td>MHUP 40</td>
<td>9.27 / 151</td>
<td>2300</td>
<td>800</td>
<td>40 / 151</td>
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Genuine Metaris MH Series Refuse Pumps

MDV Series Dry Valve Pump

MODEL CODE BREAKDOWN

Model
MDVL = 4-Bolt “C” Mounting (Max inlet vacuum 5 in.HG. (17 bar) Small Frame)
MDVL = 2-Bolt “C” Mounting (Max inlet vacuum 5 in.HG. (17 bar) Small Frame)
MDV = 4-Bolt “C” Mounting (Max inlet vacuum 5 in.HG. (17 bar))
MDV = 2-Bolt “C” Mounting (Max inlet vacuum 5 in.HG. (17 bar))

GPM @ 1000 RPM
19 = 19 (72) Max psi 3000 (207 bar)
25 = 25 (93) Max psi 3000 (207 bar)
27 = 27 (100) Max psi 3000 (207 bar)
31 = 31 (117) Max psi 3000 (207 bar)
35 = 35 (134) Max psi 3000 (207 bar)
40 = 40 (152) Max psi 3000 (207 bar)

Optional Bleed Valve
BV = (Shipped with the pump)

Rotation
R = Right - Clockwise
L = Left - Counter-clockwise

Options
1.5 = 1-1/2” Dry Valve Installed
2.0 = 2” Dry Valve Installed

Porting
23 = 1-1/2” Inlet x 1-1/4” Outlet Split Flange
(19, 25, 27 & 31 size only)
34 = 2” Inlet x 1-1/4” Outlet Split Flange
(35 & 40 size only)

Shaft Type
K = 1” SAE Keyed (MDVL Series Only)
K = 1-1/4” SAE Keyed (MDV Series Only)
S = 1-1/4” SAE 14-tooth Spline
(MDV Series Only)

FEATURES

- Ideally suited for the Refuse Market
- Heavy duty roller bearing design
- 6 different gear sizes available
- MDV valve can reduce fuel costs and operator fatigue
- MDV is available in MH51 and MH76 series
- Pressures up to 3000 psi
- Speeds up to 2400 rpm
- High Strength Steel Gear & Shaft Sets

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Hydraulex - A Recognized Global Leading Provider of High Quality Hydraulic Components

Products We Offer

- Inline Piston Pumps
- Radial Piston Pumps & Motors
- Bent Axis Piston Pumps & Motors
- Fixed Volume Vane Pumps
- Variable Volume Vane Pumps
- Gear Pumps
- Vane Motors

- Axial Piston Motors
- High Speed Motors
- Servo Motors
- Orbital Motors
- Directional Valves
- Flow Control Valves
- Pressure Control Valves

- Relief Valves
- Check Valves
- Stack Valves
- Servo Valves
- Proportional Valves
- PTOs (Power Take-offs)
- Cylinders

Hydraulex Corporate
48175 Gratiot Ave
Chesterfield, MI 48051
Toll Free: 800.422.4279
Tel: 586.949.4240
www.hydraulex.com

Hydraulex Detroit
Tel: 586.949.4240
sales@hydraulex.com

Hydraulex Jackson
Tel: 601.469.1987
sales@metarisusa.com

Hydraulex Seattle
Tel: 253.604.0400
hrdsales@hydraulex.com

Hydraulex Memphis
Tel: 901.794.2462
fhisales@hydraulex.com

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