

TWO PUMP- ELECTRICALLY ACTIVATED



The JET-SET® DM-2E Drum Mount system consists of Two JET-SET 9100 stainless steel piston pumps (0-5cc per stroke) with 10 outlets for spray nozzles. The 9100 pumps are engaged using the electric solenoid to receive external signals for system activation. The DM-1E comes standard 110v unless specified.

All of the components of the DM-2E system are enclosed in a durable stainless steel unit that can be placed on top of a 55 gallon drum or mounted in a convenient place near the point of operation.

The DM-2E can be adapted to accept the 1401 timer or the 1471 counter option for greater variation in lubrication needs.

Save time and money by letting your lubrication drum be your holding tank.





TWO PUMP- ELECTRICALLY ACTIVATED



Individual part numbers:

- 1) 9100 9100 Pump
- 2) 802 1/8" NPT Male Midget Plug
- 3) 1501-D Air Regulator Assembly
- 4) 1400-N-NU Solenoid Valve and Base
- 5) 834-P 1/8"NPTx1/4" Push-In Elbow
- 6) 803-S 1/4" Nylon Tubing
- 7) 3800 3/8" Nylon Tubing 8'
- 8) 3600-2 60 Mesh Fllter





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Drum Mount Unit Mounting Instructions

INSTALLATION

1. Using the template provided, select a location that will be convenient for filling the tank and making setup changes.

2. Drill and tap two holes for bolts to support the Drum Mount Unit. The template will provide you with the exact location of the holes.

3. Now hang the Drum Mount Unit and connect shop air to the ¹/₄" F.P.T. brass fitting located on the left side of the module.

4a. Place the air switch where the trigger rod* can best be activated by mechanical movement. The switch may be adjusted to fire in either direction or in both directions. To change direction: See attached" 714N Air Switch Installation Data."

4b. *If installing an electrically activated module, a four way solenoid has been provided to activate the pump. Simply complete the circuit from the four way solenoid to the switch of your choice. See attached "1400N Solenoid Valve Instructions" or "1400 SMC Valve Instructions"

5. Keeping all the nozzle leads the same approximate length, plug the quick-disconnect hose connectors into the bottom of the Drum Mount Unit. Keeping the nozzle leads the same length assures even distribution of fluid to each nozzle. Position nozzles where needed.

6.When using the standard high pressure nylon tubing provided, we recommend spraying light viscosity fluids. Copper tubing conversion kit is available for spraying heavy viscosity fluids.

7. With the large knurled knob on the control panel turned all the way out, hand activate the air switch until all air is out of the system. See attached "How to Bleed Air From The Manifold of #9100 Pump"





JET-SET® GUIDES 1400-N-NU Solenoid (248) 545-4441 info@jetsetspray.com http://jetsetspray.com

JET-SET® 1400-N-NU Solenoid

1400-N-NU



The 1400 -N-NU Solenoid Valve is a directional air control valve which comes standard on all MOD systems. Ruggedly built to withstand harsh environments. Please specify when ordering either 110v or 24v.





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1400-N-NU Solenoid

JET-SET® 1400-N-NU Solenoid

1400-N-NU

single solenoid 2 position 4-way





Technical Data

| Value Data | English | | Metric | | |
|--------------------------------|------------------------|--------------------|-----------------------------------|-----------------|--|
| Cv | 1/8 G Tap = 0.08 | 1/4 G Tap = 1.0 | 1/8 G Tap = 0.08 | 1/4 G Tap = 1.0 | |
| Flow Capacity | 37 SCFm | 46 SCFM | 790 NI/m | 985 NI/m | |
| | Upstream Pressure to a | tmosphere @80 PSIG | @ 6 bar upstream/5 bar downstream | | |
| Operating Pressure Range | 28deg Hg Vacuum to 15 | 50 PSIG | Vacuum to 10 Bar | | |
| Temperature Range (Ambient) | -10 F to +115 F | | -23 C to +48 C | | |





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1400-N-NU Solenoid

| All Solenoids are continuous Duty Rated | | 12 VDC | 24 VDC | 24 VAC 50 Hz | 24 VAC 60 Hz | 115 VAC 60 Hz | 120 VAC 60 Hz | 230 VAC 50 Hz | 240 VAC 60 Hz |
|--------------------------------------------|--------------------------------------|--------|--------|--------------------|-----------------|---------------------|---------------------|------------------|------------------|
| Power (Wat | tts) | 6.0 | 6.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| Holding Cu | rrent (Amps) | 0.50 | 0.25 | 0.84 | 0.38 | 0.15 | 0.09 | 0.007 | 0.04 |
| InRush Cur | rent (Amps) | N/A | N/A | 2.25 | 1.85 | 0.41 | 0.38 | 0.021 | 0.19 |
| Energize in Seconds | 2-Position, Single, Spring Return | 0.032 | 0.032 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 |
| | 2-Position, Double, Detented | 0.028 | 0.028 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| | 3-Position, Spring Centered | 0.028 | 0.028 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 | 0.012 |
| De-energi ze in Seconds | 2-Position, Single, Spring Return | 0.010 | 0.010 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 | 0.011 |
| | 2-Position, Double, Detented | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | 3-Position, Spring Centered | 0.008 | 0.008 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 | 0.018 |





Tips For Spraying

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The JETSET® Hydraulic Spray System Assures a controlled deposit on any configuration. First, the spray displacement can vary from zero to full capacity by adjusting the volume control on the pump. And second, the velocity can be controlled from a soft, gentle spray to a full strong blast by regulating the pressure in the air supply.

The Following three sketches show how the coverage and pattern can be varied without changing tips.



NOTE: Other tips are available. For recommendation, submit pint sample of liquid and details of operation.





Spray Angle and Coverage

Spray Spray Angle Spray Angle Spray Coverage

Tabulated spray angles indicate approximate spray coverages based on spray or distribution of water. In actual spraying, the effective spray angle varies with spray distance. Liquids more viscous than water form relatively smaller spray angles (or even solid stream), depending upon viscosity, nozzle capacity and spraying pressure. Liquids with surface tensions lower than water will produce relatively wider spray angles than those listed for water. This table list the theoretical coverage of spray patterns as calculated from the included spray angle of the spray and the distance from the nozzle orifice. Values are based on the assumption that the spray angle remains the same throughout the entire spray distance. In actual practice the tabulated spray angle does not hold for long spray distances.If spray coverage requirement is critical contact JETSET® for help in determining the specs.

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Theoretical Spray Coverage

| Spray | 2" | 5 | 4" | 10 | 6" | 15 | 8" | 20 | 10* | 25 | 12" | 30 | 15" | 40 | 18* | 50 | 24* | 60 | 30" | 70 | 36" | 80 | 48* | 100 |
|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|---------|------|------|
| Angle | | cm | | cm | | cm | | cm |
| 5° | .2 | .4 | .4 | .9 | .5 | 1.3 | .7 | 1.8 | .9 | 2.2 | 1.1 | 2.6 | 1.3 | 3.5 | 1.6 | 4.4 | 2.1 | 5.2 | 2.6 | 6.1 | 3.1 | 7.0 | 4.2 | 8.7 |
| 10° | .4 | .9 | .7 | 1.8 | 1.1 | 2.6 | 1.4 | 3.5 | 1.8 | 4.4 | 2.1 | 5.3 | 2.6 | 7.0 | 3.1 | 8.8 | 4.2 | 10.5 | 5.2 | 12.3 | 6.3 | 14.0 | 8.4 | 17.5 |
| 15° | .5 | 1.3 | 1.1 | 2.6 | 1.6 | 4.0 | 2.1 | 5.3 | 2.6 | 6.6 | 3.2 | 7.9 | 3.9 | 10.5 | 4.7 | 13.2 | 6.3 | 15.8 | 7.9 | 18.4 | 9.5 | 21.1 | 12.6 | 26.3 |
| 20° | .7 | 1.8 | 1.4 | 3.5 | 2.1 | 5.3 | 2.8 | 7.1 | 3.5 | 8.8 | 4.2 | 10.6 | 5.3 | 14.1 | 6.4 | 17.6 | 8.5 | 21.2 | 10.6 | 24.7 | 12.7 | 28.2 | 16.9 | 35.3 |
| 25° | .9 | 2.2 | 1.8 | 4.4 | 2.7 | 6.7 | 3.5 | 8.9 | 4.4 | 11.1 | 5.3 | 13.3 | 6.6 | 17.7 | 8.0 | 22.2 | 10.6 | 26.6 | 13.3 | 31.0 | 15.9 | 35.5 | 21.2 | 44.3 |
| 30° | 1.1 | 2.7 | 2.1 | 5.4 | 3.2 | 8.0 | 4.3 | 10.7 | 5.4 | 13.4 | 6.4 | 16.1 | 8.1 | 21.4 | 9.7 | 26.8 | 12.8 | 32.2 | 16.1 | 37.5 | 19.3 | 42.9 | 25.7 | 53.6 |
| 35° | 1.3 | 3.2 | 2.5 | 6.3 | 3.8 | 9.5 | 5.0 | 12.6 | 6.3 | 15.8 | 7.6 | 18.9 | 9.5 | 25.2 | 11.3 | 31.5 | 15.5 | 37.8 | 18.9 | 44.1 | 22.7 | 50.5 | 30.3 | 63.1 |
| 40° | 1.5 | 3.6 | 2.9 | 7.3 | 4.4 | 10.9 | 5.8 | 14.6 | 7.3 | 18.2 | 8.7 | 21.8 | 10.9 | 29.1 | 13.1 | 36.4 | 17.5 | 43.7 | 21.8 | 51.0 | 26.2 | 58.2 | 34.9 | 72.8 |
| 45° | 1.7 | 4.1 | 3.3 | 8.3 | 5.0 | 12.4 | 6.6 | 16.6 | 8.3 | 20.7 | 9.9 | 24.9 | 12.4 | 33.1 | 14.9 | 41.4 | 19.9 | 49.7 | 24.8 | 58.0 | 29.8 | 66.3 | 39.7 | 82.8 |
| 50° | 1.9 | 4.7 | 3.7 | 9.3 | 5.6 | 14.0 | 7.5 | 18.7 | 9.3 | 23.3 | 11.2 | 28.0 | 14.0 | 37.3 | 16.8 | 46.6 | 22.4 | 56.0 | 28.0 | 65.3 | 33.6 | 74.6 | 44.8 | 93.3 |
| 55° | 2.1 | 5.2 | 4.2 | 10.4 | 6.3 | 15.6 | 8.3 | 20.8 | 10.3 | 26.0 | 12.5 | 31.2 | 15.6 | 41.7 | 18.7 | 52.1 | 25.0 | 62.5 | 31.2 | 72.9 | 37.5 | 83.3 | 50.0 | 104 |
| 60° | 2.3 | 5.8 | 4.6 | 11.6 | 6.9 | 17.3 | 9.2 | 23.1 | 11.5 | 28.9 | 13.8 | 34.6 | 17.3 | 46.2 | 20.6 | 57.7 | 27.7 | 69.3 | 34.6 | 80.8 | 41.6 | 92.4 | 55.4 | 115 |
| 65° | 2.5 | 6.4 | 5.1 | 12.7 | 7.6 | 19.1 | 10.2 | 25.5 | 12.7 | 31.9 | 15.3 | 38.2 | 19.2 | 51.0 | 22.9 | 63.7 | 30.5 | 76.5 | 38.2 | 89.2 | 45.8 | 102 | 61.2 | 127 |
| 70° | 2.8 | 7.0 | 5.6 | 14.0 | 8.4 | 21.0 | 11.2 | 28.0 | 14.0 | 35.0 | 16.8 | 42.0 | 21.0 | 56.0 | 25.2 | 70.0 | 33.6 | 84.0 | 42.0 | 98.0 | 50.4 | 112 | 67.2 | 140 |
| 75° | 3.1 | 7.7 | 6.1 | 15.4 | 9.2 | 23.0 | 12.3 | 30.7 | 15.3 | 38.4 | 18.4 | 46.0 | 23.0 | 61.4 | 27.6 | 76.7 | 36.8 | 9.2.1 | 46.0 | 107 | 55.2 | 123 | 73.6 | 153 |
| 80° | 3.4 | 8.4 | 6.7 | 16.8 | 10.1 | 25.2 | 13.4 | 33.6 | 16.8 | 42.0 | 20.2 | 50.4 | 25.2 | 67.1 | 30.3 | 83.9 | 40.3 | 101 | 50.4 | 118 | 60.4 | 134 | 80.6 | 168 |
| 85° | 3.7 | 9.2 | 7.3 | 18.3 | 11.0 | 27.5 | 14.7 | 36.7 | 18.3 | 45.8 | 22.0 | 55.0 | 27.5 | 73.3 | 33.0 | 91.6 | 44.0 | 110 | 55.0 | 128 | 66.0 | 147 | 88.0 | 183 |
| 90° | 4.0 | 10.0 | 8.0 | 20.0 | 12.0 | 30.0 | 16.0 | 40.0 | 20.0 | 50.0 | 24.0 | 60.0 | 30.0 | 80.0 | 36.0 | 100 | 48.0 | 120 | 60.0 | 140 | 72.0 | 160 | 96.0 | 200 |
| 95° | 4.4 | 10.9 | 8.7 | 21.8 | 13.1 | 32.7 | 17.5 | 43.7 | 21.8 | 54.6 | 26.2 | 65.5 | 32.8 | 87.3 | 39.3 | 109 | 52.4 | 131 | 65.5 | 153 | 78.6 | 175 | 105 | 218 |
| 100° | 4.8 | 11.9 | 9.5 | 23.8 | 14.3 | 35.8 | 19.1 | 47.7 | 23.8 | 59.6 | 28.6 | 71.5 | 35.8 | 95.3 | 43.0 | 119 | 57.2 | 143 | 71.6 | 167 | 85.9 | 191 | 114 | 238 |
| 110° | 5.7 | 14.3 | 11.4 | 28.6 | 17.1 | 42.9 | 22.8 | 57.1 | 28.5 | 71.4 | 34.3 | 85.7 | 42.8 | 114 | 51.4 | 143 | 68.5 | 171 | 85.6 | 200 | 103 | 229 | - | 286 |
| 120° | 6.9 | 17.3 | 13.9 | 34.6 | 20.8 | 52.0 | 27.7 | 69.3 | 34.6 | 86.6 | 41.6 | 104 | 52.0 | 139 | 62.4 | 173 | 83.2 | 208 | 104 | 243 | - | | | - |
| 130° | 8.6 | 21.5 | 17.2 | 42.9 | 25.7 | 64.3 | 34.3 | 85.8 | 42.9 | 107 | 51.5 | 129 | 64.4 | 172 | 77.3 | 215 | 103 | 257 | - | | ~ | 34 - C | | - 20 |
| 140° | 10.9 | 27.5 | 21.9 | 55.0 | 32.9 | 82.4 | 43.8 | 110 | 54.8 | 137 | 65.7 | 165 | 82.2 | 220 | 98.6 | 275 | 20 | 124 | 2 | 2 | 2 | <u></u> | 141 | 20 |
| 150° | 14.9 | 37.3 | 29.8 | 74.6 | 44.7 | 112 | 59.6 | 149 | 74.5 | 187 | 89.5 | 224 | 112 | 299 | - | - | - | - | - | - | - | | - | - |
| 160° | 22.7 | 56.7 | 45.4 | 113 | 68.0 | 170 | 90.6 | 227 | 113 | 284 | | - | | - | • | | | | - | | - | | | |
| 170° | 45.8 | 114 | 91.6 | 229 | | - | | - | - | - | | - | | - | - | - | - | | - | | - | | | • |





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Spray Tips

Spray tips are available in a wide variety of materials, capacities, and patterns. For specific information about spray tips of or different patterns other than indicated here, please contact us. **The following spray tips are regularly stocked at** *JET-SET*®

FLAT SPAY (TP)

| Tip # | Orifice | Spray Angle (approx.) | ТР |
|-------------|---------|-----------------------------|-------|
| 902- 5001 | .026" | 50° @ 40psi / 60° @ 80psi | and a |
| 902- 6501 | .026" | 65° @ 40psi / 74° @ 80psi | 12 |
| 902- 80015 | .031" | 80° @ 40psi / 90° @ 80psi | |
| 902- 800050 | .018" | 80° @ 20psi / 95° @ 80psi | |
| 902- 110015 | .031" | 110° @ 40psi / 120° @ 80psi | |

FULL CONE (TG)

| Tip # | Orifice | Spray Angle (approx.) | TG |
|-------------|---------|---------------------------|--------|
| 902- TG 0.3 | .020" | 50° @ 20psi / 61° @ 80psi | 0 |
| 902- TG 0.4 | .022" | 56° @ 20psi / 63° @ 80psi | |
| 902- TG 0.6 | .027" | 54° @ 20psi / 62° @ 80psi | Q SPRA |
| 902- TG 1 | .036" | 58° @ 20psi / 53° @ 80psi | TEEUE |
| 902- TG 2 | .047" | 50° @ 20psi / 46° @ 80psi | |
| 902- TG 3 | .062" | 65° @ 20psi / 59° @ 80psi | |





Spray Tips

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DEFLECTED FLAT SPRAY (TK)

| Tip # | Orifice | Spray Angle (approx.) | тк |
|-------------|---------|-----------------------------|----|
| 902- TK 1.5 | .040" | 108° @ 20psi / 130° @ 60psi | |
| 902- TG 2.5 | .052" | 122° @ 20psi / 133° @ 60psi | |
| | | | |
| | | | |

HOLLOW CONE (TX/TY)

| Tip # | Orifice | Spray Angle (approx.) | ТХ / ТҮ |
|------------|---------|---------------------------|---------|
| 902- TX 10 | .059" | 68° @ 20psi / 74° @ 40psi | |
| 902- TY 14 | .070 | 70° @ 20psi / 76° @ 40psi | |
| | | | Q. SPRA |
| | | | TEEUP |
| | | | |





Nozzle Assemblies

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| Part# 900 (| O/A Length 1 7/8" Approx.) | Female Nozzle Assembly |
|-------------|------------------------------------|------------------------|
| 1pc | 901 Nozzle Nut | (5) (4) (2) (1) |
| 1pc | 902-80015 Standard Spray Tip | |
| 1pc | 903 20 (40) 20 or 40lb Check Valve | |
| 2pc | 904 Nozzle Bracket | |
| 1pc | 905 Nozzle Body | U U |

| Part# 900-1 | /8MT (O/A Length 1 3/4" Approx.) | Male Nozzle Assembly |
|-------------|------------------------------------|----------------------|
| 1pc | 901 Nozzle Nut | (5) (4) (2) (1) |
| 1pc | 902-80015 Standard Spray Tip | |
| 1pc | 903 20 (40) 20 or 40lb Check Valve | |
| 2pc | 904 Nozzle Bracket | |
| 1pc | 905-1/8 MT Nozzle Body | O |

| Part# 902-8 | 0015-M20 (O/A Length 7/8"Approx)20lb Check Valve | Mini Nozzle |
|-------------|--------------------------------------------------|-------------|
| OR | | |
| Part# 902-8 | 0015-MNV (O/A Length 7/8"Approx)No Check Valve | |

| Part# 908-SW 1/8x1/8 (O/A Length 1 1/4" Approx.) | Mini Nozzle |
|--------------------------------------------------|-------------|
| Swivel For 900-1/8M or 902-80015-M's | |

