



(248) 545-4441
info@jetsetspray.com
<http://jetsetspray.com>

JET-SET® DM-1E

SINGLE PUMP- ELECTRICALLY ACTIVATED



The JET-SET® DM-1E Drum Mount system consists of One JET-SET 9100 stainless steel piston pump (0-5cc per stroke) with 5 outlets for spray nozzles. The 9100 pump is 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-1E 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-1E 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.



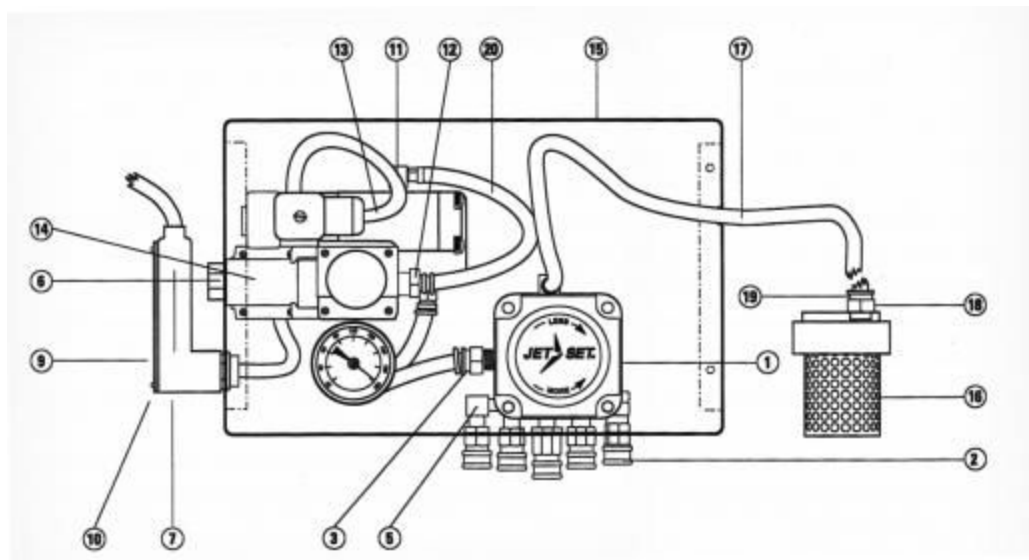
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Individual part numbers:

- | | |
|---------------------------------------|--|
| 1) 9100: Stainless Steel Jet-Set Pump | 11) 834-P: 1/8"NPT x 1/4" Push-In Elbow |
| 2) 802: 1/8" NPT Male Midget Plug | 12) 813-P: 1/4"NPT x 1/4" Push-In |
| 3) 820-P: 1/4" Push-In Connector | 13) 1400-N-NU: Solenoid Valve and Base |
| 4) 897: 1/8"NPT x 3/8" Tube Connector | 14) 1501-D: Air Regulator Assembly |
| 5) 811: 1/8"x1/8" Union Elbow | 15) 3001-1-S: Stainless Steel Box & Cover |
| 6) 814: 1/4"NPTx1/4"FPT Adaptor | 16) 3600-2: 60 Mesh Filter |
| 7) 837: Elbow | 17) 3800: 3/8" Nylon Tubing- 8' |
| 8) 837-A: 1/2" Close Pipe Nipple | 18) 3860-N: 1/4" NPT x 3/8" Tube Connector |
| 9) 836: Cover | 19) 822: 3/8" Tube Support Brass Insert |
| 10) 836-A: Gasket | 20) 803-S: 1/4" Nylon Tubing |



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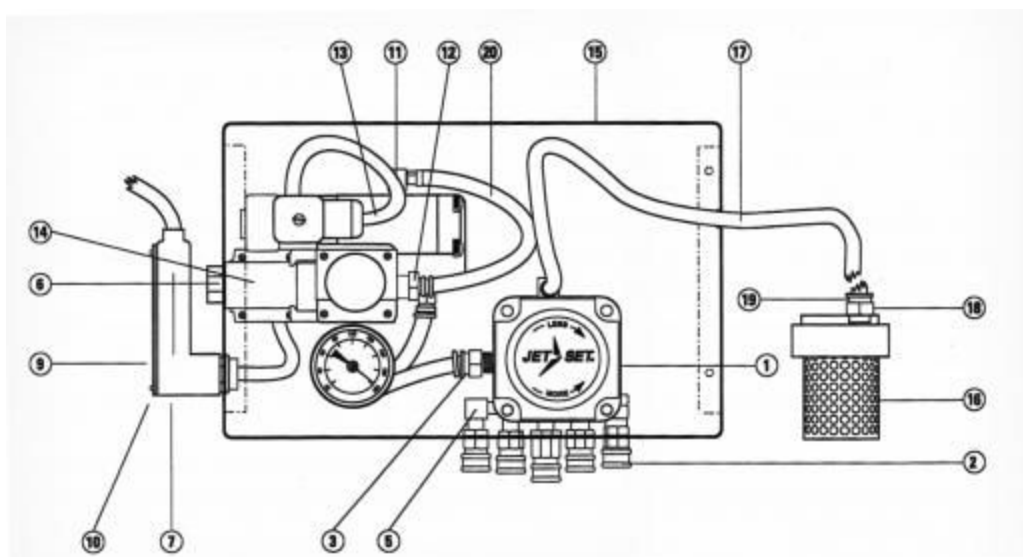
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Drum Mount Unit Mounting Instructions

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 ¼" 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"

FINAL ADJUSTMENT





Drum Mount Unit Mounting Instructions

1. To adjust the volume of liquid being sprayed, turn the large knurled knob on the control panel clockwise to decrease, and counterclockwise to increase. With the air regulator set at high pressures it may be necessary to hand activate the air switch to relieve air pressure and allow the knob to move freely.
2. To adjust the air pressure on the unit, turn the adjustment knob which is under the panel and just below the gauge. This adjustment will regulate the velocity of the spray. The higher the air pressure, the higher the velocity of spray. We suggest lowering the air pressure until the best spray pattern has been obtained.
3. Position the spray nozzles for the coverage desired. The distance away from the surface will determine the area of coverage. If longer nozzle leads are required or nozzle placement is a question CALL YOUR JETSET® DISTRIBUTOR or visit us online at <http://www.JetSetSpray.com> JETSET® distributors carry a complete line of interchangeable spray tips for changing spray patterns, nozzle holders and the required high pressure nylon tubing.





JET-SET® GUIDES

1400 N-NU Solenoid

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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.



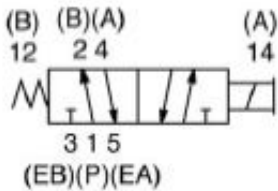
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JET-SET® 1400-N-NU Solenoid

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 atmosphere @80 PSIG		@ 6 bar upstream/5 bar downstream	
Operating Pressure Range	28deg Hg Vacuum to 150 PSIG		Vacuum to 10 Bar	
Temperature Range (Ambient)	-10 F to +115 F		-23 C to +48 C	





JET-SET® GUIDES

1400 N-NU Solenoid

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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 (Watts)		6.0	6.0	N/A	N/A	N/A	N/A	N/A	N/A
Holding Current (Amps)		0.50	0.25	0.84	0.38	0.15	0.09	0.007	0.04
InRush Current (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-energize 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



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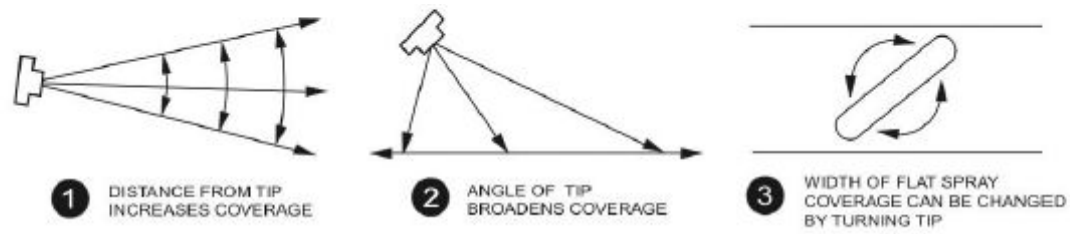
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Tips For Spraying

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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.



JET-SET® HYDRAULIC SPRAY KITS ARE SHIPPED WITH AN 80015 FLAT SPRAY TIP.
THE FOLLOWING INTERCHANGEABLE TIPS ARE AVAILABLE FOR SPECIFIC NEEDS.

SOLID ROUND SPRAY

CODE	ACTUAL ORIFICE	ANGLE
TG 0.4	.022	63°
TG 1	.036	60°
TG 2	.047	50°
TG 3	.062	65°

* Popular Sizes

HOLLOW ROUND SPRAY

CODE	ACTUAL ORIFICE	ANGLE
TY 14	.059	68°
TX 10	.060	76°
T8W	.063	136°

* Popular Sizes

FLAT SPRAY

CODE	EQUIVALENT ORIFICE	ANGLE
5001	.026	60°
80015	.031	90°
110015	.031	120°

* Popular Sizes ** Most Popular

"OFF-SIDE" DEFLECTOR FLAT SPRAY

CODE	ACTUAL ORIFICE	ANGLE
TK 1.5	.040	140°
TK 2.5	.051	140°

* Popular Sizes

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



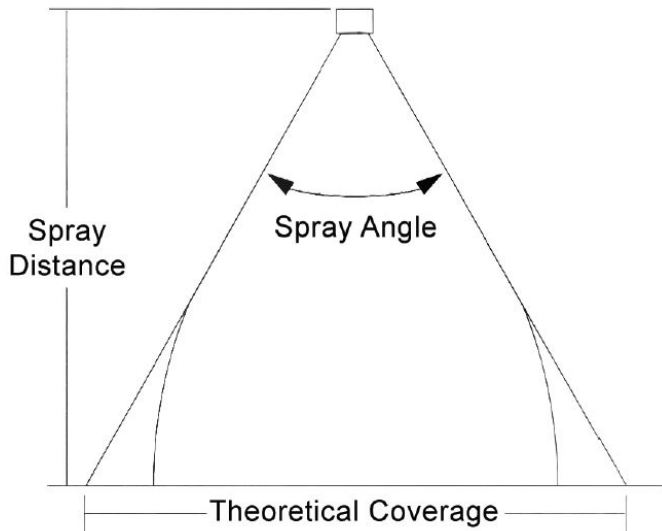
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Spray Angle and Coverage

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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.

Theoretical Spray Coverage

at Various Distances in Inches (cm) from Nozzle Orifice

Spray Angle	2"	5 cm	4"	10 cm	6"	15 cm	8"	20 cm	10"	25 cm	12"	30 cm	15"	40 cm	18"	50 cm	24"	60 cm	30"	70 cm	36"	80 cm	48"	100 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	92.1	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	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
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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JET-SET® GUIDES


Spray Tips

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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.)	TP
902- 5001	.026"	50° @ 40psi / 60° @ 80psi	
902- 6501	.026"	65° @ 40psi / 74° @ 80psi	
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	
902- TG 0.4	.022"	56° @ 20psi / 63° @ 80psi	
902- TG 0.6	.027"	54° @ 20psi / 62° @ 80psi	
902- TG 1	.036"	58° @ 20psi / 53° @ 80psi	
902- TG 2	.047"	50° @ 20psi / 46° @ 80psi	
902- TG 3	.062"	65° @ 20psi / 59° @ 80psi	



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Spray Tips

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DEFLECTED FLAT SPRAY (TK)

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



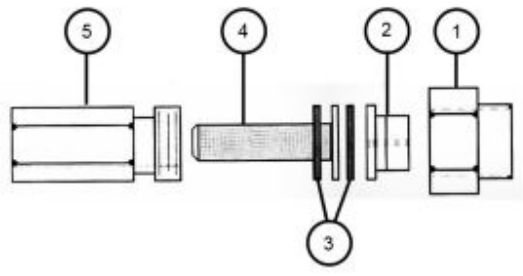
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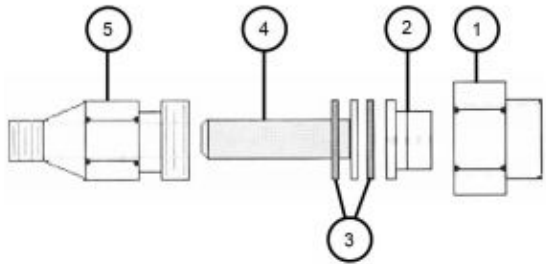


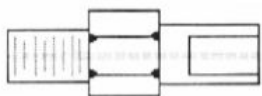
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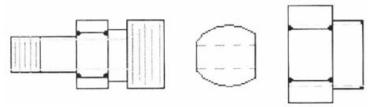
Nozzle Assemblies

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

Part# 900-1/8MT (O/A Length 1 3/4" Approx.)		Male Nozzle Assembly
1pc	901 Nozzle Nut	
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	

Part# 902-80015-M20 (O/A Length 7/8" Approx)20lb Check Valve		Mini Nozzle
OR		
Part# 902-80015-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	



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