



MES Nozzle Catalog

Nationwide Toll Free:
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Municipal Equipment Sales, Inc.

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Mini-Penetrator Nozzle



Serving since 1978

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Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
G2-33	1/8"	Penetrator 1 Front/ 3 Rear	30°	3 to 4	Up to 4000
G2-34	1/8"	Penetrator 1 Front/4 Rear	30°	5 to 6	Up to 4000
G2-35	1/8"	Penetrator 1 Front/5 Rear	30°	7 to 10	Up to 4000
G2-36	1/8"	Penetrator 1 Front/6 Rear	30°	7 to 10	Up to 4000
G2-303	1/8"	Penetrator 3 Rear Only	30°	3 to 4	Up to 4000
G2-304	1/8"	Penetrator 4 Rear Only	30°	5 to 6	Up to 4000
G2-305	1/8"	Penetrator 5 Rear Only	30°	7 to 10	Up to 4000
G2-306	1/8"	Penetrator 6 Rear Only	30°	7 to 10	Up to 4000

Penetrator Nozzle



Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
G0-13	1/4"	Penetrator 1 Front 3 Rear	15°	3 to 4	Up to 4000
G0-14	1/4"	Penetrator 1 Front 4 Rear	15°	5 to 6	Up to 4000
G0-16	1/4"	Penetrator 1 Front/6 Rear	15°	7 to 10	Up to 4000

Mustang Hex Nozzle



Best suited to general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
G9-43	1/4"	Mustang Hex 1 Front/3 Rear	40°	3 to 4	Up to 4000
G9-46	1/4"	Mustang Hex 1 Front/6 Rear	40°	7 to 10	Up to 4000

Radial Bullet Nozzle



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Best suited to general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
G7-33	1/4"	Radial Bullet w/ Front Jet	30°	3 to 4	Up to 4000
G7-34	1/4"	Radial Bullet w/ Front Jet	30°	5 to 6	Up to 4000
G7-35	1/4"	Radial Bullet w/ Front Jet	30°	7 to 10	Up to 4000
G7-36	1/4"	Radial Bullet w/ Front Jet	30°	7 to 10	Up to 4000
G7-45	1/4"	Radial Bullet w/ Front Jet	40°	7 to 10	Up to 4000
G7-46	1/4"	Radial Bullet w/ Front Jet	40°	7 to 10	Up to 4000
G7-303	1/4"	Radial Bullet w/o Front Jet	30°	3 to 4	Up to 4000
G7-304	1/4"	Radial Bullet w/o Front Jet	30°	5 to 6	Up to 4000
G7-306	1/4"	Radial Bullet w/o Front Jet	30°	7 to 10	Up to 4000

Penetrator Nozzle



Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
G5-13	3/8"	Penetrator 1 Front/3 Rear	15°	3 to 4	Up to 4000
G5-14	3/8"	Penetrator 1 Front/4 Rear	15°	5 to 6	Up to 4000
G5-15	3/8"	Penetrator 1 Front/5 Rear	15°	7 to 10	Up to 4000
G5-16	3/8"	Penetrator 1 Front/6 Rear	15°	7 to 10	Up to 4000

Typhoon Nozzle



Best suited for general cleaning, de-scaling and cutting grease from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
RT-3	3/8"	Typhoon 3 Front Rotating/6 Rear		7 to 10	Up to 4000

* Replacement Jet Stainless Steel All RT-4J

Radial Bullet Nozzle



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Best suited to general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
G8-33	3/8"	Radial Bullet w/ Front Jet	30°	3 to 4	Up to 4000
G8-34	3/8"	Radial Bullet w/ Front Jet	30°	5 to 6	Up to 4000
G8-35	3/8"	Radial Bullet w/ Front Jet	30°	7 to 10	Up to 4000
G8-36	3/8"	Radial Bullet w/ Front Jet	30°	7 to 10	Up to 4000
G8-46	3/8"	Radial Bullet w/ Front Jet	40°	7 to 10	Up to 4000
G8-303	3/8"	Radial Bullet w/o Front Jet	30°	3 to 4	Up to 4000
G8-304	3/8"	Radial Bullet w/o Front Jet	30°	5 to 6	Up to 4000
G8-306	3/8"	Radial Bullet w/o Front Jet	30°	7 to 10	Up to 4000
G8-406	3/8"	Radial Bullet w/o Front Jet	40°	7 to 10	Up to 4000

Ellipse Nozzle



Best suited for blockages, offset joints and tight bends to remove most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
AT136160	1/2"	Ellipse 1 Front/6 Rear	15°	25	2000

* Replacement Jet Stainless Steel All AT136160-25

Penetrator Nozzle



Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
F1-115	1/2"	Penetrator 1 Front/6 Rear	25°	8 to 15	Up to 4000
F1-125	1/2"	Penetrator 1 Front/6 Rear	25°	15 to 25	Up to 4000

Penetrator Lance Tip Nozzle



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Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
F1-1115	1/2"	Lance Tip Penetrator 1F/4S/6R	25°	8 to 15	Up to 4000
F1-1125	1/2"	Lance Tip Penetrator 1F/4S/6R	25°	15 to 25	Up to 4000

Button-Style Short Nozzle



Best suited for general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
F5-315	1/2"	Button Short w/ Front Jet	30°	8 to 15	Up to 4000
F5-315N	1/2"	Button Short w/o Front Jet	30°	8 to 15	Up to 4000
F5-325	1/2"	Button Short w/ Front Jet	30°	15 to 25	Up to 4000
F5-325N	1/2"	Button Short w/o Front Jet	30°	15 to 25	Up to 4000
F5-380	1/2"	Button Short w/ Front Jet	30°	15 to 25	Up to 4000

Typhoon Nozzle



Best suited for general cleaning, de-scaling and cutting grease from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
RT-4	1/2"	Typhoon 3 Front Rotating/6 Rear		18 to 35	Up to 4000

Radial Bullet Nozzle



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Best suited to general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
E0-335	3/4"	Radial Bullet 1Front/6Rear	18°	35 to 40	Up to 1800
E0-335V	3/4"	Radial Bullet 1Front/6Rear Vac	18°	35 to 40	Up to 3000
E0-3A35	3/4"	Radial Bullet 1Front/6Rear	35°	35 to 40	Up to 1800
E0-3A35V	3/4"	Radial Bullet 1Front/6Rear Vac	35°	35 to 40	Up to 3000
E0-3N35	3/4"	Radial Bullet 6Rear	18°	35 to 40	Up to 1800
E0-3N35V	3/4"	Radial Bullet 6Rear Vac	35°	35 to 40	Up to 3000
E0-3NA35	3/4"	Radial Bullet w/o Front/6 Rear	35°	35 to 40	Up to 1800
E0-3NA35V	3/4"	Radial Bullet 6Rear Vac	35°	35 to 40	Up to 3000

Radial Vortex Nozzle



Best suited for heavy general cleaning of most debris and grease-filled lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
E0-435	3/4"	Radial Vortex 1Front/6Rear	18°/24°	35 to 40	Up to 1800
E0-435V	3/4"	Radial Vortex 1Front/6Rear Vac	18°/24°	35 to 40	Up to 3000
A5-145	1"	Radial Vortex 1Front/6Rear	18°/24°	45	2000
A5-150-3000	1"	Radial Vortex 1Front/6Rear	18°/24°	50	3000
A5-160	1"	Radial Vortex 1Front/6Rear	18°/24°	60	2000
A5-180	1"	Radial Vortex 1Front/6Rear	18°/24°	80	2000

Penetrator Nozzle



Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
E2-335	3/4"	Penetrator 1Front/6Rear	12°	35 to 40	Up to 1800

Penetrator Lance Tip Nozzle



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Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
E2-1335	3/4"	Lance Tip Penetrator 1F/4S/6R	12°	35 to 40	Up to 1800

Aluminum Sand Nozzle



Best suited for removal of sand, gravel and dirt from lines 8" to 24" Diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
E5-235	3/4"	Aluminum Sand 1Front/8Rear	24°	35 to 40	Up to 2000

* Replacement Jet Stainless Steel Front BFJE5 Rear B-J445.E5

Aluminum Grease Nozzle



Best suited for removal of heavy grease-filled lines from 6" to 24" Diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
E9-135	3/4"	Aluminum Grease 1Front/6Rear	17°	35 to 40	Up to 2000
E9-135V	3/4"	Aluminum Grease 1Front/6Rear Vac	17°	35 to 40	Up to 3000

* Replacement Jet Stainless Steel Front BFJE89 Rear B-J445.E89

* Replacement Jet Stainless Steel Front BFJE89 Rear B-J445A9-131

Typhoon Nozzle



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Best suited for general cleaning, de-scaling,
and cutting grease from lines 6" to 24" Diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
RT-6651	3/4"	Typhoon 3 Front Rotating/6 Rear		35 to 45	1675 to 2000
* Replacement Jet Stainless Steel All RT-760					
RT-6652	3/4"	Typhoon 3 Front Rotating/6 Rear		50 to 65	1675 to 2000
* Replacement Jet Stainless Steel All RT-760					

Tungsten Carbide Sanitary Nozzle



Best suited for general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
U58756CDC	3/4"	Sanitary 6 Rear	30°	50	2500
* Replacement jet Carbide TCO-.095					
U58756BDC	1"	Tungsten Carbide Sanitary 6 Rear	30°	50	2500
* Replacement Jet Carbide All Carbide TCO-.095					
U58756BEB	1"	Tungsten Carbide Sanitary 6 Rear	30°	55	2000
* Replacement Jet Carbide All Carbide TCO-.100					
U58756BFB	1"	Tungsten Carbide Sanitary 6 Rear	30°	60	2000
* Replacement Jet Carbide All Carbide TCO-.105					
U58756BFC	1"	Tungsten Carbide Sanitary 6 Rear	30°	60	2500
* Replacement Jet Carbide All Carbide TCO-.105					
U58756BGB	1"	Tungsten Carbide Sanitary 6 Rear	30°	65	2000
* Replacement Jet Carbide All Carbide TCO-.110					
U58756BJB	1"	Tungsten Carbide Sanitary 6 Rear	30°	80	2000
* Replacement Jet Carbide All Carbide TCO-.135					
U58756BJC	1"	Tungsten Carbide Sanitary 6 Rear	30°	80	2500
* Replacement Jet Carbide All Carbide TCO-.135					
U60306BFB	1"	Tungsten Carbide Sanitary 6 Rear	15°	60	2000
* Replacement Jet Carbide All Carbide TCO-.105					
U60306BFC	1"	Tungsten Carbide Sanitary 6 Rear	15°	60	2500
* Replacement Jet Carbide All Carbide TCO-.105					
U60306BGB	1"	Tungsten Carbide Sanitary 6 Rear	15°	65	2000
* Replacement Jet Carbide All Carbide TCO-.110					
U60306BJB	1"	Tungsten Carbide Sanitary 6 Rear	15°	80	2000
* Replacement Jet Carbide All Carbide TCO-.135					

Tungsten Carbide Sand Nozzle



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Best suited for removal of sand, light gravel and dirt from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
U60307CDC	3/4"	Tungsten Carbide Sand 2F/6R	15°	50	2500
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.095					
U58926BJB	1"	Tungsten Carbide Sand 2F/6R	30°	80	2000
* Replacement Jet Carbide Front Carbide TCO-.080 Rear TCO-.135					
U58926BJC	1"	Tungsten Carbide Sand 2F/6R	30°	80	2500
* Replacement Jet Carbide Front Carbide TCO-.080 Rear TCO-.135					
U60307BFB	1"	Tungsten Carbide Sand 2F/6R	15°	60	2000
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.105					
U60307BFC	1"	Tungsten Carbide Sand 2F/6R	15°	60	2500
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.105					
U60307BGB	1"	Tungsten Carbide Sand 2F/6R	15°	65	2000
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.110					
U60307BHC	1"	Tungsten Carbide Sand 2F/6R	15°	70	2500
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.110					
U60307BIC	1"	Tungsten Carbide Sand 2F/6R	15°	75	2500
* Replacement Jet Carbide Front Carbide TCO-.080 Rear TCO-.120					
U60307BJB	1"	Tungsten Carbide Sand 2F/6R	15°	80	2000
* Replacement Jet Carbide Front Carbide TCO-.080 Rear TCO-.135					
U60307BJC	1"	Tungsten Carbide Sand 2F/6R	15°	80	2500
* Replacement Jet Carbide Front Carbide TCO-.080 Rear TCO-.135					

Aluminum Grease Nozzle



Best suited for removal of heavy grease-filled lines from 8" to 30" lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
B8-360	1"	Aluminum Grease 1Front/6Rear	17°	50 to 65	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.054 Rear B-J460A83					
B8-380	1"	Aluminum Grease 1Front/6Rear	17°	80	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.076 Rear B-J480A83					

Tungsten Carbide Penetrator Nozzle



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Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
U58927CFB	3/4"	Tungsten Carbide Penetrator 1F/6R	30°	60	2000
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.100					
U60308CGC	3/4"	Tungsten Carbide Penetrator 1F/6R	15°	65	2500
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.105					
U58927BDB	1"	Tungsten Carbide Penetrator 1F/6R	30°	50	2000
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.090					
U58927BDC	1"	Tungsten Carbide Penetrator 1F/6R	30°	50	2500
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.090					
U58927BFB	1"	Tungsten Carbide Penetrator 1F/6R	30°	60	2000
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.100					
U58927BFC	1"	Tungsten Carbide Penetrator 1F/6R	30°	60	2500
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.100					
U58927BGC	1"	Tungsten Carbide Penetrator 1F/6R	30°	65	2500
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.105					
U58927BJB	1"	Tungsten Carbide Penetrator 1F/6R	30°	80	2000
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.125					
U60308BFB	1"	Tungsten Carbide Penetrator 1F/6R	15°	60	2000
* Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.100					
U60308BGB	1"	Tungsten Carbide Penetrator 1F/6R	15°	65	2000
Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.105					
U60308BJB	1"	Tungsten Carbide Penetrator 1F/6R	15°	80	2000
Replacement Jet Carbide Front Carbide TCO-.076 Rear TCO-.110/.135					

Penetrator Lance Tip Nozzle



Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
A3-1260	1"	Lance Tip Penetrator 1F/4S/6R	12°	60 to 65	1675 to 2000
A3-1280	1"	Lance Tip Penetrator 1F/4s/6r	12°	80	1675 to 2000

Aluminum Sand Nozzle



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Best suited for removal of sand, gravel and dirt from lines 8" to 24" Diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
A1-160	1"	Aluminum Sand 1Front/8Rear	24°	50 to 65	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.054 Rear B-J460A91					
A1-180	1"	Aluminum Sand 1Front/8Rear	24°	80	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.076 Rear B-J480A91					
A9-11260	1"	Aluminum Sand 1Front/16 Dual Rear	17°/24°	50 to 65	1675 to 2000
*Replacement Jet Stainless Steel Front BFJ-.054 Rear B-J460A91					
A9-11280	1"	Aluminum Sand 1Front/16 Dual Rear	17°/24°	80	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.076 Rear B-J480A91					

Hustler Cleaning Nozzle



Best suited for general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
UEZ30.075	3/4"	Hustler Cleaning 8Rear	30°	65	2000
* Replacement Jet Carbide All Carbide Jets-CI-.078 Inserts-ENZ-.140					
UEZ30.075.50	3/4"	Hustler Cleaning 8Rear	30°	50	3000
* Replacement Jet Carbide All Carbide Jets-CI-.062 Inserts-ENZ-.140					
UEZ30.100.50	1"	Hustler Cleaning 8Rear	30°	50	3000
* Replacement Jet Carbide All Jets-CI-.140 Inserts-ENZ-.140					
UEZ30.100.65.2	1"	Hustler Cleaning 8Rear	30°	65	2000
* Replacement Jets Carbide (4) CI-.078 / (4) CI-.086 Inserts-ENZ-.140					
UEZ30.100.80	1"	Hustler Cleaning 8Rear	30°	80	2000
* Replacement Jet Carbide All Jets-CI-.098 Inserts-ENZ-.140					

Hustler Grenade Nozzle



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Best suited for general cleaning, sand and/or gravel filled lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
UEZ40.075.40	3/4"	Hustler Grenade NFJ	10°/30°	40	2000
* Replacement Jet Carbide All Carbide Jets-CI-.096 Inserts-ENZ-.055					
UEZ40.075.50	3/4"	Hustler Grenade NFJ	10°/30°	50	3000
* Replacement Jet Carbide All Carbide Jets-CI-.062 Inserts-ENZ-.096					
UEZ40.100.50	1"	Hustler Grenade NFJ 10Rear	10°/30°	50	3000
* Replacement Jet Carbide All Jets-CI-.055 Inserts-ENZ-.096					
UEZ40.100.60	1"	Hustler Grenade NFJ 10Rear	10°/30°	60	2000
* Replacement Jet Carbide Fronts Jets-CI-.062/.078 Inserts-ENZ-.096					
UEZ40.100.80	1"	Hustler Grenade NFJ 10Rear	10°/30°	80	2000
* Replacement Jet Carbide All Jets-CI-.086 Inserts-ENZ-.096					
UEZ40.100A	1"	Hustler Grenade NFJ 10Rear	10°/30°	65	2000
* Replacement Jet Carbide All Jets-CI-.078 Inserts-ENZ-.096					
UEZ40.100FJ	1"	Hustler Grenade w/FJ 1F/10R	10°/30°	60	2000
* Replacement Jet Carbide Front Jets-CI-.062/.078 Inserts-ENZ-.096					
UEZ40.100FJ.50	1"	Hustler Grenade w/FJ 1F/10R	10°/30°	50	3000
* Replacement Jet Carbide All Jets-CI-.055 Inserts-ENZ-.096					
UEZ40.100FJ.80	1"	Hustler Grenade w/FJ 1F/10R	10°/30°	80	2000
* Replacement Jet Carbide All Jets-CI-.086 Inserts-ENZ-.096					

Big Pete Nozzle



This 28-pound nozzle is designed for *heavy* cleaning of lines 24" to 48" diameter lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
BP-301256	1"	Big Pete 1Front/12Rear	17°/24°	55 to 60	1675 to 2000
* Replacement Jet Stainless Steel Front BP-JF-60 Rear BP-J125					
BP-301280	1"	Big Pete 1Front/12Rear	17°/24°	80	1675 to 2000
* Replacement Jet Stainless Steel Front BP-JF-80 Rear BP-J128					

Hustler Chisel Nozzle



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Best suited to cut and break blockages, remove clogs and clean semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
UEZ60.075.30	3/4"	Hustler Chisel 1Front/6Rear	30°	30	3000
* Replacement Jet Carbide Front CI-.050 Rear CI-050L					
* Replacement Insert Carbide Front ENZ-.080 Rear ENZ-.140					
UEZ60.075.40	3/4"	Hustler Chisel 1Front/6Rear	30°	40	2000
* Replacement Jet Front CI-.050 Rear CI-050L					
* Replacement Insert Front ENZ-.080 Rear ENZ-.140					
UEZ60.075.50	3/4"	Hustler Chisel 1Front/6Rear	30°	50	3000
* Replacement Jet Carbide Front CI-.050 Rear CI-062					
* Replacement Insert Carbide Front ENZ-.080 Rear ENZ-.140					
UEZ60.100L	1"	Hustler Chisel (Large) 5F/6R	30°	60	2000
* Replacement Jet Carbide Front CI-.055 Rear CI-.078					
* Replacement Insert Carbide ENZ-.140x3125/ENZ.096					
UEZ60.100L-50	1"	Hustler Chisel (Large) 5F/6R	30°	50	3000
* Replacement Jet Carbide Front CI-.050L Rear CI-.055					
* Replacement Insert Carbide ENZ-.140x3125/ENZ.096					
UEZ60.100L-65	1"	Hustler Chisel (Large) 5F/6R 28	30°	65	2000
* Replacement Jet Carbide Front CI-.055 Rear CI-.086					
* Replacement Insert Carbide ENZ-.140x3125/ENZ.096					
UEZ60.100L-80	1"	Hustler Chisel (Large) 5F/6R	30°	80	2000
* Replacement Jet Carbide Front CI-.062 Rear CI-.098					
* Replacement Insert Carbide ENZ-.140x3125/ENZ.096					

Aluminum Storm Sewer Nozzle



Best suited for heavy cleaning of sand, dirt and grit from lines 8" to 24" diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
U36058A260	1"	#10 Aluminum Storm 8 Rear		50 to 65	1675 to 2000
* Replacement Jet Stainless Steel Rear U40797					
U36058A280	1"	#10 Aluminum Storm 8 Rear		80	1675 to 2000
* Replacement Jet Stainless Steel Rear U-357C					
U36058A350	1"	#10 Aluminum Storm 8 Rear		50 to 65	3000
* Replacement Jet Stainless Steel Rear U40797A					

Ellipse Nozzle



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Best suited for blockages, offset joints and tight bend to remove most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
AT136150	1"	Ellipse 1 Front/8 Rear	15°	60	2000
* Replacement Jet Stainless Steel Front AT136150-60 Rear AT136150.001					
AT136150-80	1"	Ellipse 1 Front/8Rear	15°	80	2500
* Replacement Jet Front AT136150-80 Rear AT136150.001					

Penetrator Nozzle



Best suited for general cleaning, breaking up clogs and semi-plugged lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
A3-145	1"	Penetrator 1Front/6Rear	12°	35 to 45	1675 to 2000
A3-150	1"	Penetrator 1Front/6Rear	12°	50	1675 to 2000
A3-160	1"	Penetrator 1Front/6Rear	12°	60 to 65	1675 to 2000
A3-160-3000	1"	Penetrator 1Front/6Rear	12°	60	3000
A3-180	1"	Penetrator 1Front/6Rear	12°	80	1675 to 2000

Mini-Storm/Sand Nozzle



Best suited for offset joints and tight bends to remove most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
A3-12260	1"	Mini Storm/Sand 1Front/16Rear	17°/24°	50 to 65	1675 to 2000
A3-12280	1"	Mini Storm/Sand 1Front/16Rear	17°/24°	80	1675 to 2000

Radial Bullet Nozzle



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Best suited for general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
A4-245-3000	1"	Radial Bullet 1Front/6Rear	18°	45	3000
A4-250-3000	1"	Radial Bullet 1Front/6Rear	18°	50	3000
A4-260	1"	Radial Bullet 1Front/6Rear	18°	60	2000
A4-280	1"	Radial Bullet 1Front/6Rear	18°	80	2000
A4-2A45	1"	Radial Bullet 1Front/6Rear	30°	45	2000
A4-2A50-3000	1"	Radial Bullet 1Front/6Rear	30°	50	3000
A4-2A60	1"	Radial Bullet 1Front/6Rear	30°	60	2000
A4-2A80	1"	Radial Bullet 1Front/6Rear	30°	80	2000
A4-2N45	1"	Radial Bullet 6Rear	18°	45	2000
A4-2N50-3000	1"	Radial Bullet 6Rear	18°	50	3000
A4-2N60	1"	Radial Bullet 6Rear	18°	60	2000
A4-2N80	1"	Radial Bullet 6Rear	18°	80	2000
A4-2NA45	1"	Radial Bullet 6Rear	30°	45	2000
A4-2NA50-3000	1"	Radial Bullet 6Rear	30°	50	3000
A4-2NA60	1"	Radial Bullet 6Rear	30°	60	2000
A4-2NA80	1"	Radial Bullet 6Rear	30°	80	2000
B1-15	1 1/4"	Radial Bullet w/ Front Jet 1F/5R	18°	50	2000
B1-18	1 1/4"	Radial Bullet w/ Front Jet 1F/5R	18°	80	2000
B1-1N5	1 1/4"	Radial Bullet w/o Front Jet 5Rear	18°	50	2000
B1-1N8	1 1/4"	Radial Bullet w/o Front Jet 5Rear	18°	80	2000
B1-25	1 1/4"	Radial Bullet w/ Front Jet 1F/5R	35°	50	2000
B1-28	1 1/4"	Radial Bullet w/ Front Jet 1F/5R	35°	80	2000
B1-2N5	1 1/4"	Radial Bullet w/o Front Jet 5Rear	35°	50	2000
B1-2N8	1 1/4"	Radial Bullet w/o Front Jet 5Rear	35°	80	2000

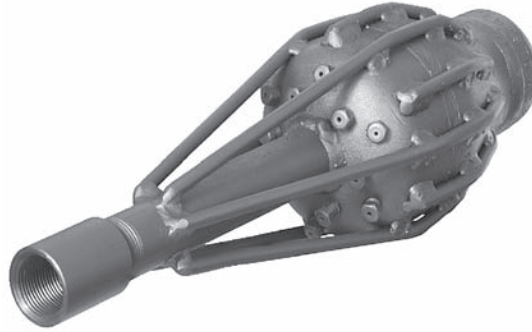
Intruder Nozzle



Best suited for removing sand, gravel, dirt, soap clogs and grease from lines 8" to 30" diameter lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
IT-160	1"	Intruder 1Front/3Rear		60	2000
* Replacement Jet Stainless Steel Rear U40797C					
IT-160-3000	1"	Intruder 1Front/3Rear		60	3000
* Replacement Jet Stainless Steel Rear U40797D					
IT-180	1"	Intruder 1Front/3Rear		80	2000
* Replacement Jet Stainless Steel Rear U40797B					

Petee Nozzle



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This 12 pound nozzle is designed for Heavy cleaning of lines 15" to 30" diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
P100256	1"	Petee 1Front/12Rear	17°/24°	60 to 65	1675 to 2000
* Replacement Jet Stainless Steel Front PFJ-60 Rear P-J2156					
P100280	1"	Petee 1Front/12Rear	17°/24°	80	1675 to 2000
* Replacement Jet Stainless Steel Front PFJ-80 Rear P-J2180					

Sanitary Nozzle



Best suited for general cleaning of most debris from lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
U29343-A2	1"	Sanitary 6 Rear	30°	60	1675 to 2000
U29343-B2	1"	Sanitary 6 Rear	30°	50	1675 to 2000
U29343-C	1"	Sanitary 6 Rear	30°	80	1675 to 2000
U44233-A2	1"	Sanitary 6 Rear	15°	60	1675 to 2000
U44233-B2	1"	Sanitary 6 Rear	15°	50	1675 to 2000

Steel Sand Nozzle



Best suited for removing heavy sand from lines 8" to 24" diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
B5-180	1"	Steel/Sand 2Front/6Rear	12°	80	1675 to 2000
U40585	1"	Steel/Sand 2Front/6Rear	12°	52	2000
U44234	1"	Steel/Sand 2Front/6Rear	12°	60	2000

Tandem Bomb Nozzle



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Best suited for Heavy cleaning of debris, sand and gravel for 8" to 24" lines.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
A9-1228	1"	Tandem Bomb 1F/F8-24/8R	24°	80	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.076 Rear B-J480A91					
A9-1326	1"	Tandem Bomb 1Front/16Rear	17°/24°	60 to 65	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.054 Rear B-J460A9-132					
A9-1328	1"	Tandem Bomb 1Front/16Rear	17°/24°	80	1675 to 2000
* Replacement Jet Stainless Steel Front BFJ-.076 Rear B-J480A9-132					

Typhoon Nozzle



Best suited for general cleaning, de-scaling
and cutting grease from lines 8" to 24" diameter.

MES Part #	Size NPT	Description	Jet Degrees	GPM	PSI
RT-8651	1"	Typhoon 3 Front Rotating/6 Rear		50 to 65	1250 to 1675
* Replacement Jet Stainless Steel All RT-760					
RT-8652	1"	Typhoon 3 Front Rotating/6 Rear		50 to 65	1675 to 2000
* Replacement Jet Stainless Steel All RT-760					
RT-8802	1"	Typhoon 3 Front Rotating/ 6 Rear		80	1675 to 2000
* Replacement Jet Stainless Steel All RT-780					

General Purpose Nozzle



Best suited for general cleaning of 12" to 30" lines.

MES Part #	Size NPT	Description	GPM	PSI
U58929BFB	1"	General Purpose 3"	60	2000
* Replacement Jet All Carbide Jets-TCO-.105 Inserts-U58929.001				
U58929BJB	1"	General Purpose 3"	80	2000
* Replacement Jet All Carbide Jets-TCO-.135 Inserts-U58929.001				
U58929BJC	1"	General Purpose 3"	80	2500
* Replacement Jet All Carbide Jets-TCO-.135 Inserts-U58929.001				

Bulldozer Nozzle



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This penetrating nozzle does Heavy cleaning of lines 12" to 30" diameter.

MES Part #	Size NPT	Description	GPM	PSI
UE48216-60	1"	Bulldozer 1Front/6Rear	60	Up to 2000
* Replacement Jet Carbide Front Carbide CI.050L Rear TCO-.076/TCO-.095				
* Replacement Inserts Carbide Front ENZ-.096 Rear ENZ-.160				
UE48216-80	1"	Bulldozer 1Front/6Rear	80	2000
* Replacement Jet Carbide Front Carbide CI.046 Rear TCO-.110/TCO.120				
* Replacement Insert Carbide Front ENZ-.096 Rear ENZ-.160				
UE48220-60	1 1/4"	Bulldozer 1Front/6Rear	60	2000
* Replacement Jet Carbide Front Carbide Jet-TCO-.096 Inserts-ENZ-.160				
UE48220-80	1 1/4"	Bulldozer 1Front/6Rear	80	2000
* Replacement Jet Carbide Front Carbide Jet-TCO-.096 Inserts-ENZ-.160				

Blue Streak (Small) Nozzle



Best suited for general to heavy cleaning of most debris from 15" to 36" lines.

MES Part #	Size NPT	Description	GPM	PSI
UE48226-60	1"	Blue Streak 1Front/10Rear	60	2000
* Replacement Jets Front CI-.050L Rear TCO-.080				
* Replacement Insert Front ENZ-.096 Rear ENZ-.160				
UE48226-80	1"	Blue Streak 1Front/10Rear	80	2000
* Replacement Jets Front CI-.050L Rear TCO-.086				
* Replacement Insert Front ENZ-.096 Rear ENZ-.160				

JET PAK™ Nozzle Packs

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Municipal Equipment offers a solution to give you the best price on nozzles. Plus, we package them to ensure you always have the right tool for the job.

Municipal Equipment's JET-PAK nozzle packages combine the most popular nozzles into a sturdy carrying case, all at a great price. We offer JET-PAK kits ranging in size from 1/8" to 1" and 2000-4000 PSI.

Part # G2-Kit:

1/8" 4000 PSI

Nozzle Group Total of 8 Nozzles

Includes all 8 nozzles we offer - 1 each of the following part number: G2-33, G2-34, G2-35, G2-36, G2-303, G2-304, G2-305, G2-306

Part # G25-56:

1/4" 5-6 GPM @ 4000 PSI

Nozzle Group Total of 8 Nozzles

Includes 8 of our best selling nozzles - 1 each of the following part numbers: G7-44, G7-304 and 2 each of: G0-14, G7-34, & G7-404



Part # G25-34:

1/4" 3-4 GPM @ 4000 PSI

Nozzle Group Total of 8 Nozzles

Includes 8 of our best selling nozzles - 1 each of the following part number: G7-33 & G7-303 and 2 each of: G0-13, G7-43 & G7-403

Part # G25-710:

1/4" 7-10 GPM @ 4000 PSI

Nozzle Group Total of 8 Nozzles

Includes 8 of our best selling nozzles - 1 each of the following part numbers: G7-35, G7-46, G7-305, G7-406, G0-16 & G7-306 and 2 each of: G0-15

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Part # G375-34:

3/8" 3-4 GPM @ 4000 PSI
Nozzle group has a total
of 6 nozzles.

Includes all 6 of the
best selling nozzles
:One each of the
following part num-
bers: G5-13, G8-33,
G8-303, & G8-43 and
2 each of: G8-403



Part # G375-56:

3/8" 5-6 GPM @ 4000 PSI
Nozzle group has a total
of 6 nozzles.

Includes all 6 of the
best selling nozzles,
one each of the fol-
lowing part num-
bers: G5-14, G8-34,
G8-304, G8-404 and 2
each of: G8-44

Part # G375-710:

3/8" 7-10 GPM @ 4000 PSI
Nozzle group has a total
of 6 nozzles.

Includes all 6 of the best selling nozzles,
one each of the following part numbers:
G5-15, G8-305, G8-45, & G8-405 and two
each of: G8-35

Remember JET-PAK Nozzle Packs are pre-
packed and substitutions are not allowed!
To get any questions answered or to place
your order, call 1-800-782-2243 or send an
email to: sales@municipalequipment.com.

Part # F815-Kit:

1/2" 8-15 GPM @ 4000 PSI
Nozzle group has a total of 6
nozzles. Includes 6 of the best
selling nozzles: two each of the
following part numbers: F1-115,
F1-1115, & F5-315



Part # F1525-Kit:

1/2" 8-15 GPM @ 4000 PSI
Nozzle Group has a total of 6
nozzles. Includes 6 of the best
selling nozzles: two each of the
following part numbers: F1-125,
F1-1125, & F5-325

Part # U58-12-60-2000:

3/4" Carbide Nozzle Kit

60 GPM @ 2000 PSI

Includes all 3 of the best selling nozzles: one each of the following part numbers: U58927CFB, U58756CFB, & U58926CFB

Part # UEZ-12-50-3000:

3/4" Hustler Nozzle Kit

50 GPM @ 3000 PSI

Includes all 3 of the best selling nozzle: one each of the following part numbers: UEZ30.075.50, UEZ40.075.50, & UEZ60.075.50



Part # UEZ-16-65-2000:

1" Hustler Nozzle Kit

65 GPM @ 2000 PSI

Includes all 4 of the best selling nozzles: one each of the following part numbers: UEZ30.100.65.2, UEZ40.100A, & UEZ60.100.65.2, UEZ60.100L-65

Part # U58-16-80-2500:

1" Carbide Nozzle Kit

80 GPM @ 2500 PSI

Includes all 4 of the best selling nozzles: one each of the following part numbers: U58927BJC, U58756BJC, U58929BJC, & U589926BJC



Part # U58-16-60-2000:

1" Carbide Nozzle Kit

60 GPM @ 2000 PSI

Includes all 4 of the best selling nozzles: one each of the following part numbers: U58927BFB, U58756BFB, U58929BFB, & U58926BFB

Part # UEZ-16-50-3000:

1" Hustler Nozzle Kit

50 GPM @ 3000 PSI

Includes all 4 of the best selling nozzles: one each of the following part numbers: UEZ30.100.50, UEZ40.100.50, & UEZ60.100.50, UEZ60.100L-50

Part # U58-16-80-3000:

1" Carbide Nozzle Kit

80 GPM @ 3000 PSI

Includes all 4 of the best selling nozzles: one each of the following part numbers: U58927BJB, U58756BJB, U58929BJB, & U58926BJB

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Part # AB-16-60-2000:

**1" Steel Nozzle Kit
60 GPM @ 2000 PSI**
Includes all 6 of the best selling nozzles: one each of the following part numbers: A3-160, A3-1260, A4-260, A4-2N60, A4-2A60, & A4-2NA60

Part # E0-12-35-1800:

**3/4" Steel Nozzle Kit
35 to 45 GPM @ 1800 PSI**
Includes all 6 of the best selling nozzles: one each of the following part numbers: E0-335, E0-3A35, E0-3N35, E0-3NA35, E0-435, & E2-335



Part # AB-16-50-3000:

**1" Steel Nozzle Kit
50 GPM @ 3000 PSI**
Includes all 6 of the best selling nozzles: one each of the following part numbers: A3-150-3000, A4-250-3000, A4-2A50-3000, A4-2N50-3000, 4-2NA50-3000, & C0-155V

Part # E0-12-35-3000:

**3/4" Steel Nozzle Kit
35 GPM @ 3000 PSI**
Includes all 6 of the best selling nozzles: one each of the following part numbers: E0-335V, E0-3A35V, E0-3N35V, E0-3NA35V, E0-435V, & E2-335V

Nozzles "Made to Order" – Vactor® Style Nozzles

All of the following nozzles are available to order to your specifications.
Use the charts below to "Special Make" your nozzle -- NO RETURNS!
Please allow 10 working days for us to make this for you.

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Tungsten Carbide Sanitary Nozzle



Master Number: U58756	Tungsten Carbide Sanitary	30°	6 Rear Jets
Master Number: U630306	Tungsten Carbide Sanitary	15°	6 Rear Jets

Tungsten Carbide Sand



Master Number: U58926	Tungsten Carbide Sand	30°	2 Front / 6 Rear Jets
Master Number: U60307	Tungsten Carbide Sand	15°	2 Front / 6 Rear Jets

Tungsten Carbide Penetrator



Master Number: U58927	Tungsten Carbide Penetrator	30°	1 Front / 6 Rear Jets
Master Number: U60308	Tungsten Carbide Penetrator	15°	1 Front / 6 Rear Jets

Use the following charts for the nozzle you need as instructed:

Master Number followed by the appropriate 3 letters

Example 3/4" 50 GPM @ 2500 would be:

U60308CDC - This would be a Tungsten Carbide Penetrator

Size	GPM (Flow)	PSI
3/4" (C)	35 (A) 40 (B)	2000 (B)
1" (B)	45 (C) 50 (D)	2500 (C)
	55 (E) 60 (F)	3000 (D)
	65 (G) 80 (J)	

3/4" is available in GPM letters A thru E and all 3 PSI

1" is available in GPM letter C thru J in all 3 PSI

Have Questions?

The professionals at Municipal Equipment Sales, Inc. offer decades of experience in nozzle sizing and recommendations for usage.

In addition to its many other types of municipal equipment, MES offers a wide variety of line inspection equipment, from tractors to cameras to complete, ready-to-go inspection vehicles made to your specifications. Let us know how we can help!

Municipal Equipment Sales, Inc.

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Woodstock, GA 30188

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