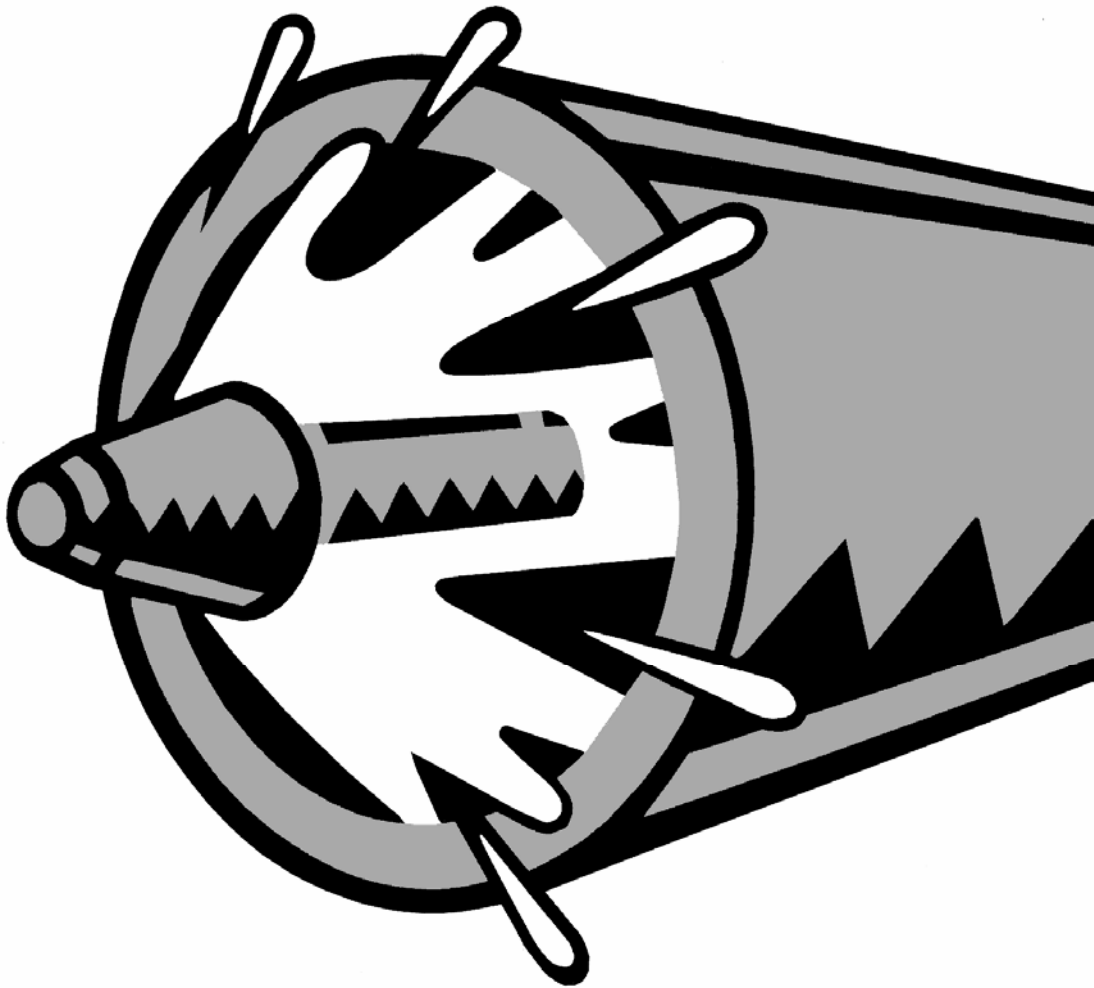


AQUATECH®

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JETTING ACCESSORIES



BUTTON NOSE FLUSHERS

Good general purpose cleaning nozzle. Also for follow up after cleaning out blockages to remove left over debris. Button nose nozzles are made of 416 Stainless Steel.

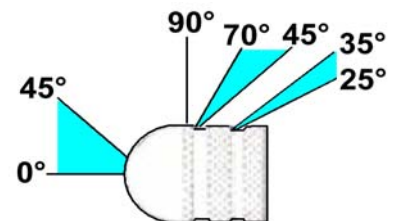
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
140215FL	45°	6	0	1.7	1500	1/4"
380437BNFL	45°	6	0	4	3750	3/8"
380530FL	45°	6	0	5	3000	3/8"
380830FL	45°	6	0	8	3000	3/8"
381025FL	45°	3	0	10	2500	3/8"
381536FL	45°	6	0	15	3600	3/8"
121025BNFL	45°	6	0	10	2500	1/2"
121536BNFL	45°	6	0	15	3600	1/2"
121840BNFL	45°	6	0	18	4000	1/2"

BUTTON NOSE PENETRATORS

Button Nose nozzles with a forward jet to bore through plugged lines.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
180215PE	25°	3	1	1.7	1500	1/8"
180430PE	25°	3	1	4	3000	1/8"
140215PE	25°	3	1	1.7	1500	1/4"
140224BNPE	35°	3	1	2.2	2400	1/4"
380437BNFL	25°	3	1	4	3750	3/8"
380440BNPE	25°	4	1	4	4000	3/8"
380530PE	25°	3	1	5	3000	3/8"
380830PE	25°	3	1	8	3000	3/8"
381025PE	25°	3	1	10	2500	3/8"
381536PE	25°	3	1	15	3600	3/8"
121025BNTH	25°	3	1	10	2500	1/2"
121025BNPE	35°	4	1	10	2500	1/2"
121536BNTH	25°	3	1	15	3600	1/2"
121840BNTH	25°	3	1	18	4000	1/2"
121840BNPE	35°	3	1	18	4000	1/2"

Button Nose nozzles can be custom drilled to meet your specifications. The dual groove design permits a wide range of spray angles that can be utilized. The rear groove allows for high thrust angles from 25° to 35°. The forward groove accommodates flushing angles from 45° to 70°. The nose area permits angles of 0° (straight forward) to 45°. Made of Heat Treated 416 Stainless Steel. See caution note below.



A word of caution on custom drilled nozzles: Make sure all the information is correct when ordering as these nozzles will be drilled to order and are not returnable.



ROUND HEAD FLUSHERS

For the general cleaning of smaller pipes.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
180430FL	45°	6	0	4	3000	1/8"
140430FL	45°	6	0	4	3000	1/4"
A136355	30°	6	0	5	4000	1/4"
J-16007	30°	3	0	2.5	3000	3/8"
J-16006	30°	3	1	4.8	3000	3/8"

ROUND HEAD THRUSTERS

The advantages of this particular body are it's short length, streamlined rear profile which makes it harder to get caught on the inside corner of 90° elbow

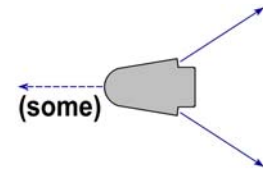
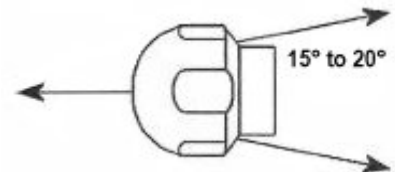


Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A381254 *	20°	6	0	15	3000	1/2"

ROUND HEAD SUPER THRUSTERS

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
180430PE	15°	3	1	4	3000	1/8"
140430PE	15°	3	1	4	3000	1/4"
121025RHTH	15°	3	1	10	2500	1/2"
121317PE	15°	6	1	13	1700	1/2"
121536RHTH	15°	6	0	15	3600	1/2"

Round Head Super Thruster nozzles can be custom drilled to meet your specifications. The 15° to 20° angle range allows for maximum pulling power with one forward jet to penetrate blockages. Pattern: 3 to 6 rear jets with one forward jet. Made of heat treated 416 SS. See caution note on page 1.



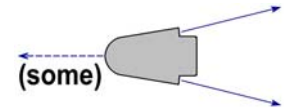
STANDARD FLUSHER NOZZLES

Designed for flushing material back to the trap.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A136365	30°	6	0	5	4000	1/8"
A130040	35°	5	1	25	2000	1/2"
J-1003	30°	6	0	35	2000	3/4"
J-1009	30°	6	1	35	2000	3/4"
J-1015	30°	6	0	65	2000	1"
J-1021	30°	6	1	65	2000	1"
A130201	35°	6	0	65	2000	1"
J-1030	15°/30°	12	0	65	2000	1"

STANDARD THRUST NOZZLES

Designed to for fast acceleration and long runs in small and medium sized pipes.

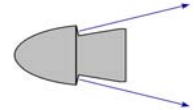


Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A130050	15°	6	0	35	1850	3/4"
J-1019	15°	6	1	65	2000	1"



RADIAL THRUST NOZZLES

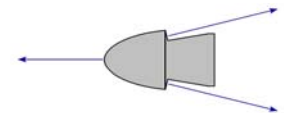
Designed to for fast acceleration and long runs in small and medium sized pipes.



Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
121025RNTH	20°	6	0	10	2500	1/2"
A136425	15°	6	0	15	3000	3/4"
A136015	15°	6	0	35	2000	3/4"
A136048	15°	6	0	35	2500	3/4"
A136046	15°	6	0	44	3000	3/4"
A136051	15°	6	0	45	2000	3/4"
A249109	15°	6	0	45	2500	3/4"
A136421	15°	6	0	65	2000	3/4"
A136430	15°	6	0	45	2500	1"
A136001	15°	6	0	60	2000	1"
A136000	15°	6	0	65	2000	1"
J-1143	15°	6	0	65	2000	1"
A136423	15°	6	0	65	2500	1"
A249085	15°	6	0	65	2500	1"
J-1151	15°	5	0	80	2000	1"
A136002	15°	6	0	80	2000	1"
A136023	15°	6	0	80	2500	1"
A249096	15°	6	0	85	2000	1"
A136007-1	15°	6	0	100	2000	1"
A136063	15°	6	0	80	2000	1-1/4"
A136003	15°	6	0	100	2000	1-1/4"
A100190	15°	6	0	125	2000	1-1/4"

PENETRATING RADIAL THRUST NOZZLES

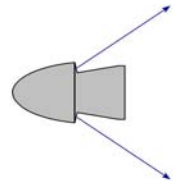
Radial Nozzles with a forward jet to break up blockages ahead of the nozzle.



Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
121025PE	25°	6	1	10	2500	1/2"
121536PE	25°	6	1	15	3600	1/2"
121840PE	25°	6	1	18	4000	1/2"
123030PE	25°	6	1	30	3000	1/2"

PENETRATING RADIAL THRUST NOZZLES (CONTINUED)

341840PE	25°	6	1	18	4000	3/4"
343020PE	25°	6	1	30	2000	3/4"
343030PE	25°	6	1	30	3000	3/4"
344020PE	25°	6	1	40	2000	3/4"
344030PE	25°	6	1	40	3000	3/4"
J-1147	15°	6	1	65	2000	1"
018020PE	25°	6	1	80	2000	1"



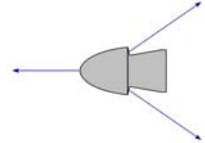
RADIAL FLUSHER NOZZLES

Designed for general cleaning applications in small and medium sized pipes.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
121025FL	35°	6	0	10	2500	1/2"
121536FL	35°	6	0	15	3600	1/2"
121840FL	35°	6	0	18	4000	1/2"
A136380	30°	6	0	25	4000	1/2"
123030FL	35°	6	0	30	3000	1/2"
A136426	35°	6	0	15	3000	3/4"
341840FL	35°	6	0	18	4000	3/4"
343020FL	35°	6	0	30	2000	3/4"
343030FL	35°	6	0	30	3000	3/4"
A136020	35°	6	0	35	2000	3/4"
A136049	35°	6	0	35	2500	3/4"
344020FL	35°	6	0	40	2000	3/4"
344030FL	35°	6	0	40	3000	3/4"
A136047	35°	6	0	44	3000	3/4"
A136052	35°	6	0	45	2000	3/4"
A249108	35°	6	0	45	2500	3/4"
A136422	35°	6	0	65	2000	3/4"
A136431	35°	6	0	45	2500	1"
J-1145	30°	6	0	65	2000	1"
A136005	35°	6	0	65	2000	1"
A136424	35°	6	0	65	2500	1"
A249086	35°	6	0	65	2500	1"
J-1153	30°	5	0	80	2000	1"
A136007	35°	6	0	80	2000	1"
A136024	35°	6	0	80	2500	1"
A249097	35°	6	0	85	2000	1"
A136059	35°	6	0	80	2000	1-1/4"
A136008	35°	6	0	100	2000	1-1/4"
A100191	35°	6	0	125	2000	1-1/4"

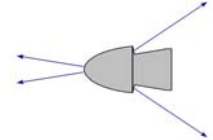
PENETRATING RADIAL FLUSHER NOZZLES

Radial Nozzles with a forward jet to break up blockages ahead of the nozzle.



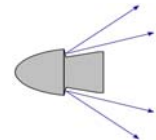
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A136385	30°	6	1	25	4000	1/2"
343520PE	30°	6	1	35	2000	3/4"
J-1138 *	30°	6	1	55	2000	1"
J-1141	30°	6	1	65	2000	1"

* Short Profile Nozzle



RADIAL DEGREASER/DEICER NOZZLE

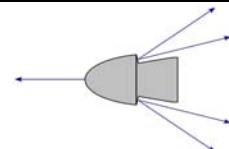
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
344020DE	35°	6	3 @ 10°	40	2000	3/4"



RADIAL VORTEX (AKA MONSTER) NOZZLES

Vortex dual degree design incorporates powerful thrust and wide angle cleaning into one nozzle. For general cleaning applications in small and medium sized pipes.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
121840RNMO	25°/45°	8	0	18	4000	1/2"
A136025	15°/35°	6	0	35 - 40	1800 - 2200	3/4"
343030RNMO	25°/45°	8	0	30	3000	3/4"
344020RNMO	25°/45°	8	0	40	2000	3/4"
A136010	15°/35°	6	0	55 - 65	1800 - 2200	1"
A136011	15°/35°	6	0	80 - 90	1800 - 2200	1"
A136012	15°/35°	6	0	100 - 120	1800 - 2200	1-1/4"

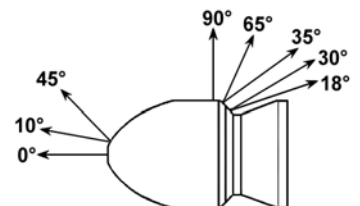


PENETRATING RADIAL VORTEX NOZZLE

Dual degree design with forward firing jet.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
121025RNMV	18°/25°	6	1	10	2500	1/2"
J-1132	18°/24°	6	1	35	2000	3/4"
J-1149	18°/24°	6	1	55	2000	1"
J-1140	18°/24°	6	1	65	2000	1"

Custom drilled Radial Nose (RN) nozzles are available to meet your specifications. They are designed to accommodate a range of spray angles from 18° for high trusting power up 65° for flushing action. Side wall jets of 90° are possible, as well as forward jets from 0° to 45°. 6 to 12 rear jets, 0 to 3 forward. Made of heat treated 416 Stainless Steel. See caution note on page 1.





GREASE REMOVER NOZZLES

More rear jets than a standard Radial nozzle. Excellent for removing grease and detergent from the pipe wall.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A130197	35°	10	0	25	4000	1/2"
A130196	35°	12	0	25	4000	3/4"
A130195	35°	12	0	65	2000	1"



CONICAL HEAD NOZZLES

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A136360	30°	6	0	5	4000	1/8"
A136350	30°	6	0	4	2000	1/4"
A136375	30°	6	0	25	4000	1/2"
A136390	30°	6	1	25	4000	1/2"

Note: Old style degreaser/deicer nozzles are being phased out as existing inventories are depleted.



OLD STYLE



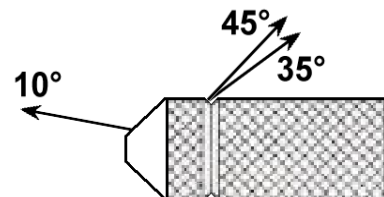
NEW STYLE

DEGREASER/DEICER NOZZLES

Designed to penetrate heavy grease, soap, and ice filled lines. A great all-around nozzle!

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
180430DE	45°	6	3 @ 10°	5-Apr	3000	1/8"
140430DE	45°	6	3 @ 10°	4	3000	1/4"
380437DE	45°	6	3 @ 10°	4	3750	3/8"
380530DE	45°	6	3 @ 10°	5	3000	3/8"
381025DE	30°	6	4	10	2500	3/8"
121025DE	45°	6	3 @ 10°	10	2500	1/2"
121536DE	45°	6	3 @ 10°	15	3600	1/2"
121840DE	45°	6	3 @ 10°	18	4000	1/2"

Custom drilled Degreaser/Deicer nozzles are available to meet your machines specifications. Made of 416 stainless steel, they all feature three 10° forward jets and 6 to 8 rear jets at a choice of 35° or 45° angles. If higher thrust is desired, order a 25° button nose nozzle with three 10° forward jets (see Button Nose nozzles). See caution note on page 1.





IMPACTOR NOZZLES

Designed for completely blocked or heavily fouled pipes.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
180430IM	45°	6	4	4	3000	1/8"
140430IM	45°	6	4	4	3000	1/4"
380530IM	45°	6	4	5	3000	3/8"
121025IM	45°	6	4	10	2500	1/2"
121536IM	45°	6	4	15	3600	1/2"
121840IM	45°	6	4	18	4000	1/2"
344020IM	45°	6	4	40	2000	3/4"



SAND NOZZLES

Specially designed to lift and float sand that's otherwise difficult to move.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A130168	30°	6	2 @ 90°	40	2000	3/4"
J-1146	12°	6	Tow Eye	55	2000	1"
J-1142	12°	6	2 @ 90°	55	2000	1"
J-1144	12°	6	2 @ 90°	65	2000	1"



PENETRATOR NOZZLES

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
J-1102	30°	5	0	35	2000	3/4"
J-1104	30°	5	0	65	2000	1"
J-1103	30°	5	1	65	2000	1"
J-1104-80	30°	5	0	80	2000	1"
J-1103-80	30°	5	1	80	2000	1"



TRIAD PENETRATOR

Triangular shape allows for excellent penetration. Features three front faces with 15° orifices and a penetrating front tip orifice. Made of stainless steel. Used for cleaning calcium, dirt, grease, soap build up. Also very effective for ice penetration. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A135989	25°	6	4	5	4000	1/8"
A135990	25°	6	4	5	4000	1/4"
A135991	25°	6	4	25	4000	1/2"
A135992	25°	6	4	35	2000	3/4"
A135993	25°	6	4	65	2200	1"



SPEAR POINT NOZZLES

These nozzles feature rear jet angles for extremely quick acceleration up the line.

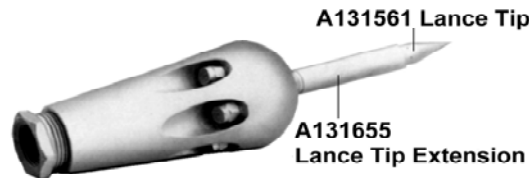
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
J-1134	12°	6	1	35	2000	3/4"
J-1139	16°	6	1 (4 side)	35	2000	3/4"
J-1148	16°	6	0	65	2000	1"
J-1135	16°	6	1	65	2000	1"
J-1150	16°	6	1 (4 side)	65	2000	1"



RADIAL WITH LANCE TIP NOZZLES

For cleaning totally blocked lines. 90° spray from lance tip opens a hole in blockage allowing the nozzle to jump forward.

Part No.	Prop. Angle	Rear Jets	Lance Jets	GPM	PSI	NPT Size
A136120	15°	6	6	35	2000	3/4"
A136018	15°	6	6	65	2000	1"
A136019	35°	6	6	65	2000	1"



11° BAYONET NOZZLES

For penetrating grease and complete stoppage in lines up to 18". Six 90° cleaning orifices in the lance tip breaks up material and enlarges the hole. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Lance Jets	GPM	PSI	NPT Size
A130140	11°	6	6	35	2000	3/4"
A130350	11°	6	6	65	2000	1"
A130360	11°	6	6	80	2000	1"



11° THRUST NOZZLES

Lightweight, fast forward traveling nozzle. Used to thread lines for TV camera and breaking through tough blockages. Also ideal for use in deteriorating concrete pipe because the 11° jet stream is directed rearward instead of against the pipe wall. Optional front orifice can be added. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Opt. Fwd. Jet	GPM	PSI	NPT Size
A130130	11°	6	A131520	35	2000	3/4"
A130340	11°	6	A131520	65	2000	1"
A130341	11°	6	A131520	80	2000	1"



ALUMINUM RAM NOZZLES

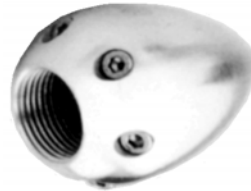
Ideal for quick penetration of grease and detergent build up. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
J-1303	30°	6	0	35	2000	3/4"
J-1305	30°	6	0	65	2000	1"

PENETRATING ALUMINUM RAM NOZZLES

Aluminum ram nozzles with a forward jet for eroding complete blockages. Orifices are replaceable.

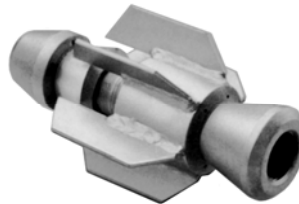
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
J-1302	15°	6	1	20	2000	3/4"
J-1301	30°	6	1	35	2000	3/4"
J-1309	30°	6	1	65	2000	1"



ELLIPSE NOZZLES

This is the best long lasting nozzle made. Wear- Resistant high carbon steel construction. This smooth service nozzle will penetrate through blockages and is capable of being retrieved without binding on offset joints, broken pipes or tight bends. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A136160	15°	6	1	20	2000	1/2"
A136161	15°	6	1	25	4000	1/2"
A136155	15°	6	1	35	2000	3/4"
A136150	15°	6	1	65	2000	1"
A136165	15°	6	1	65	2500	1"
A136151	15°	6	1	80	2000	1"



MISSILE NOZZLE

Two banks of rear propulsion orifices for increased thrust. Like having two high thrust radial nozzles with a skid built in between. Made of wear resistant high carbon steel.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A130433	15°	12	0	65	2000	1"



NEW YORK MISSILE NOZZLE

Aerodynamic design and three 0° orifices provides full thrust. Forward jet penetrates blockages.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A130438	0°	3	1	60	2000	1"



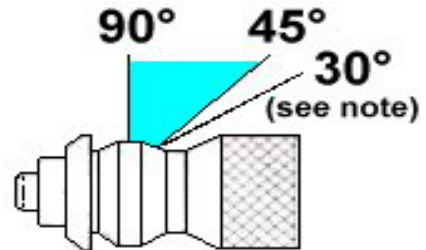
ROTOR-JET POLISHER NOZZLES

Revolving nozzle creates a sheet of water with 360 degrees of coverage for maximized wall cleaning. Typically used as a finishing tool to remove debris which might have been missed because of the spaces between jets on a fixed orifice nozzle.

Part No.	Prop. Angle	Rear Jets	Side Jets	GPM	PSI	NPT Size
180430PO	45°	2	2 @ 90°	4	3000	1/8"
140430PO	45°	2	2 @ 90°	4	3000	1/4"
380530PO	45°	2	2 @ 90°	5	3000	3/8"
121025PO	30°	2	2 @ 90°	10	2500	1/2"
121536PO	35°	2	2 @ 90°	15	3600	1/2"
121840PO	30°	2	2 @ 90°	18	4000	1/2"
344020PO	30°	2	2 @ 90°	40	2000	3/4"

Custom drilled Rotor-Jet nozzles are available to meet your specifications. All Rotor-Jet can accommodate spray angles between 45° to 90°. NOTE: 1/2" NPT Rotor-Jets can accommodate a higher thrusting angle of 30°.

Pattern: 2 jets (one angle) or 4 jets (two angles) within available range. Made of Heat Treated 416 Stainless Steel. See caution note on page 1.



SPIN CLEAN NOZZLES

This stainless steel rotating nozzle scours the pipe wall loosening hard debris. Ideal for pipes with limestone and other mineral deposits. Centering skids are recommended to achieve the best cleaning action.

Part No.	Prop. Angle	Rear Jets	Side Jets	GPM	PSI	NPT Size
A136330	30°	6	4 @ 90°	5	4000	1/8"
A136080	30°	6	4 @ 90°	5	4000	1/4"
A136075	30°	6	4 @ 90°	8	4000	3/8"
A136070	30°	6	4 @ 90°	25	4000	1/2"
A136065	30°	6	4 @ 90°	35	2000	3/4"
A136060	30°	6	4 @ 90°	65	2000	1"
A136062	30°	6	4 @ 90°	80	2000	1"



ROTATING MULTI-PURPOSE NOZZLES

With the lid mounted this nozzle has the same characteristics of the Spin Clean nozzle. Removing the lid exposes four carbide cutting blades that will bore through hardened deposits such as calcium and cement. Orifices are replaceable

Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
A136395	30°	6	4	5	4000	1/8"
A136400	30°	6	4	25	4000	1/2"
A136405	30°	6	4	65	2000	1"



ROTATING MULTI-PURPOSE 3-IN-1 NOZZLES

These stainless steel rotating nozzles have interchangeable heads: spin clean, carbide cutter and steel alloy cutter. One tool for breaking through and cleaning completely clogged pipes. Orifices are replaceable

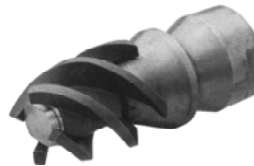
Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
A136410	30°	6	4	25	4000	1/2"
A136415	30°	6	4	35	2000	3/4"
A136420	30°	6	4	65	2000	1"



CARBIDE CUTTER NOZZLES

Tungsten steel cutter blades set at 120° angle for drilling cement, calcium and other hard deposits. Centering skids are recommended.

Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
A136310	25°	6	3	5	4000	1/8"
A136315	25°	6	3	25	4000	1/2"
A136320	25°	6	5	35	2000	3/4"
A136130	25°	6	7	65	2000	1"



CONICAL DRILL NOZZLES

Designed to cut, drill and penetrate difficult obstructions in 3" and larger pipes. Centering skids are recommended. 60° carbide flutes can be re-sharpened.

Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
A136335	25°	6	4	5	4000	1/8"
A136340	25°	6	4	25	4000	1/2"
A136345	25°	6	6	35	2000	3/4"
A136135	25°	6	8	65	2000	1"



PROPELLER NOZZLES

Designed to cut through solid blockages and roots. Centering skids are recommended.

Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
A136115-5	25°	3	3	5	4000	1/8"
A136115	25°	6	5	15	2000	1/8"
A383046	25°	6 *	5	10	2500	1/2"
A136113	25°	6 *	5	18	4000	1/2"
A136110	25°	6 *	5	20	2000	1/2"
A136105	25°	6 *	5	35	2000	3/4"
A136100	25°	6 *	5	60	2000	1"

* Replaceable

ROTATING CHAIN NOZZLES

Chains rotate at a high speed removing roots and hard deposits, such as cement, calcium, paint, epoxy, and other accidental spills. Square profile chain made of high quality steel. Centering skids are recommended. Orifices are replaceable

Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
A383045	20°	4	4	10	2500	1/2"
A136243	20°	4	4	18	4000	1/2"
A136325	20°	4	4	25	4000	1/2"
A136240	20°	4	4	35	2000	3/4"
A136245	20°	6	6	65	2000	1"
A136244	20°	6	6	80	2000	1"
A136250	20°	6	6	65	2000	1-1/4"

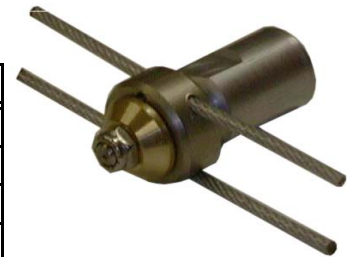
Replacement chains		
Length	1/2" & 3/4"	1" & 1-1/4"
6" Long	A136241	N/A
8" Long	TBA	A136242
12" Long	TBA	TBA
16" Long	TBA	A136246
20" Long	N/A	TBA
36" Long	A136241-6	A136242-6



ROTATING ROOT HAWG NOZZLES

Cables rotate at a high speed removing scale and other hard deposits in smaller pipes.

Part No.	Cable Qty.	GPM	PSI	NPT Size
380530SP	2	5	3000	3/8"
121025SP	4	10	2500	1/2"
121536SP	4	15	3600	1/2"
121840SP	4	18	4000	1/2"



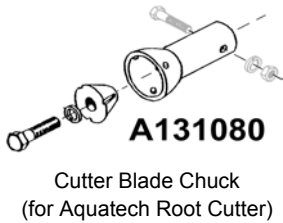
A NOTE ABOUT ALL OF OUR ROTATING NOZZLES: In order to extend the life of these nozzles, we recommend submerging them in lubricating oil after each use.



AQUATECH™ ROOT CUTTER KITS

Complete kit consists of the high-torque motor, cutter blade chuck, expandable high-tensile spring cutter blades and skids for 6" through 12" pipe. Comes complete with carrying case.

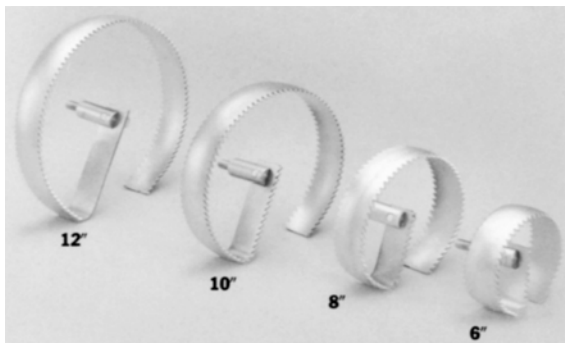
Part No.	GPM	PSI	NPT Size
A130461	35 - 40	1800 - 2200	3/4"
A130460	55 - 65	1800 - 2200	1"
A130452	80 - 90	1800 - 2200	1"
A130463	70 - 100	1800 - 2200	1-1/4"



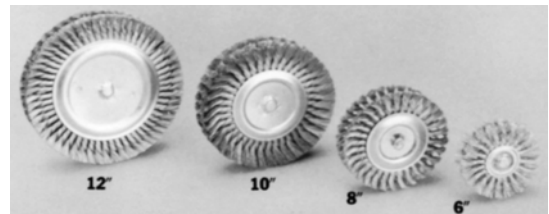
Pipe Size	Replacement		Optional ^{1 2}	
	Cutter Blades (3 required)	Skids (4 req.)	Saws	Brushes
6"	A131010	A239909	A130500	A130470
8"	A131020	A239922	A130510	A130471
10"	A131030	A239924	A130520	A130472
12"	A131040	A239926	A130530	A130473
15"	A131050 ¹	A239927 *	A130535	A130474

¹ Not included in Root Cutter Kit

² Attaches to A131080 or J-7000 cutter blade chuck.



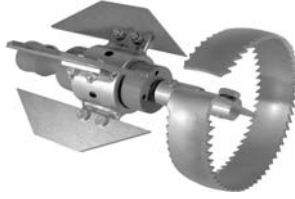
Optional Saws: Heavy duty, high tensile spring steel, full circle design. Spiral saw cutters have teeth on both sides of blade to allow cutting going in and coming back. Concave shape extends tooth life. Attaches to cutter blade chuck.



Optional Steel Brushes: Made of dual row twisted high density steel wire. For cleaning hair roots, grease, detergent, calcium, paint and corrosion from pipe walls. Attaches to cutter blade chuck.



1/2"
OBJ-1467
OBJ-1468



1" 3/4"
J-1469 J-1469-34
J-1470 J-1470-34



1"
J-3200
J-3201
J-3203

O'BRIEN™ ROOT CUTTER KITS

Powered by the jetter's water pressure, these fierce root cutters spin at extremely high torque. Kits include tool box and all necessary hardware.

Part No.	GPM	PSI	NPT Size	Saws & Skids Included
OBJ-1468	15-Oct	800 - 2000	1/2"	4", 6" (std. saws) & 8" (concave saw)
OBJ-1467	up to 18	800 - 4000	1/2"	4", 6" (std. saws) & 8" (concave saw)
J-1469-34	35 - 50	900-1400*	3/4"	4", 6", 8" & 10" (concave saws)
J-1470-34	35 - 50	900-1400*	3/4"	4", 6", 8" & 10" (flat saws)
J-1469	50 - 80	900-1400*	1"	4", 6", 8" & 10" (concave saws)
J-1470	50 - 80	900-1400*	1"	4", 6", 8" & 10" (flat saws)
J-3201	65	2000	1"	6", 8" & 10" (concave saws)
J-3201-XB	65	2000	1"	6", 8" & 10" (expandable cutter blades)
J-3203	65	2000	1"	6", 8", 10" & 12" (concave saws)
J-3200	65	2000	1"	6", 8", 10", 12" & 15" (concave saws)

* Provides the best cutting performance between 900 and 1400 PSI (700 RPM @ 575 in. lbs. torque).

Pipe Size	Replacement & Optional Skids				Replacement & Optional Saws		
	OBJ-1467/68 *	J-1469/70 *	J-1600 Series	J-3200 Series	Flat	Concave	Tapered
3"					M-1003		
4"	J-1468-4	J-1469-4			M-1004	M-2004	M-3004
6"	J-1468-6	J-1469-6	J-15 & J16	J-3206	M-1006	M-2006	M-3006
8"	J-1468-8	J-1469-8	J-17 (2 req)	J-3208	M-1008	M-2008	M-3008
10"		J-1469-10	J-19 (2 req)	J-3210	M-1010	M-2010	M-3010
12"			J-21 (2 req)	J-3212	M-1012	M-2012	M-3012
15"			J-23 (2 req)	J-3215	M-1015	M-2015	M-3015
18"				J-3218	M-1018	M-2018	M-3018

* 4 required

↳ The J-1600 series was replaced by the J-3200 series but parts are still available



Part No.	Description
J-7000	Chuck to use Aquatech Expandable Cutter Blades on J-3200 Series Root Cutters



AQUATECH™ STORM NOZZLES

25% more cleaning surface. Large diameter places water closer to the pipe wall. Most efficient for grease, detergent, and removal of large volumes of sand in sanitary sewers and drains. For pipes 8" to 36" in diameter. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Opt. Fwd. Jet	GPM	PSI	NPT Size
A130150	35°	8	A131543	35	2000	3/4"
A130380	35°	8	A131543	65	2000	1"
A130382	35°	8	A131543	80	2000	1"
A130386	35°	8	A131543	80	2000	1-1/4"
A130383	35°	8	A131543	100	2000	1-1/4"

STORM VORTEX NOZZLES

Combines good forward propulsion while affording wide angle cleaning.

Part No.	Prop. Angle	Rear Jets	Opt. Fwd. Jet	GPM	PSI	NPT Size
A130160	15°/35°	8	A131543	35	2000	3/4"
A130400	15°/35°	8	A131543	65	2000	1"
A130390	15°/35°	8	A131543	80	2000	1"
A130403	15°/35°	8	A131543	80	2500	1"



O'BRIEN™ GANG NOZZLES

For general cleaning in larger pipes. Aluminum body with replaceable orifices.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
J-1201	30°	5	0	35	2000	3/4"
J-1211	30°	8	0	65	2000	1"

PENETRATING GANG NOZZLES

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
J-1203	30°	8	1	35	2000	3/4"
J-1209	30°	8	1	65	2000	1"

PENETRATING GANG VORTEX NOZZLES

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
J-1401	15°/30°	16	1	35	2000	3/4"
J-1403	15°/30°	16	1	65	2000	1"



DOUBLE STORM NOZZLES

The water from the leading set of orifices dislodges debris accumulations while the trailing set flushes the debris back to the manhole. Ideal for the rapid cleaning of medium and large pipes. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Opt. Fwd. Jet	GPM	PSI	NPT Size
A130420	35°	16	A131543	65	2000	1"
A130422	35°	16	A131543	80	2000	1"
A130421	35°	16	A131543	100	2000	1-1/4"



TANDEM GANG NOZZLES

These O'Brien tandem nozzles work on the same principle as the Aquatech Double Storm nozzles. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
J-1205	30°	16	0	35	2000	3/4"
J-1213	30°	16	0	65	2000	1"

PENETRATING TANDEM GANG NOZZLES

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
J-1207	30°	16	1	35	2000	3/4"
J-1215	30°	16	1	65	2000	1"



TADPOLE NOZZLES

Our best all around cleaning nozzle for 8" and larger pipes. Highly effective for removing grease from the pipe wall. Removes standing water. Carbide orifices are replaceable. Steel construction with spring steel skid wires. Weighs 14 approx.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
A136300	8°/14°	12	1	65	2000	1"
A136299	8°/14°	12	1	80	2000	1"



O'BRIEN™ TORPEDO NOZZLES

The O'Brien torpedo's heavy weight (55 lbs.) keeps it along the base of the line. This, combined with its large diameter (5 1/2") makes it ideal for flushing sand and debris in large culverts. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
J-1450-A	30°	8	0	35	2000	3/4"
J-1450	30°	8	0	65	2000	1"



AQUATECH™ TORPEDO NOZZLES

This bottom cleaning nozzle features, a towing eye, replaceable orifices, 360° rotating swivel to prevent hose from turning the nozzle, and a smooth hardened surface to allow the nozzle to glide over sand and debris. 4" diameter, 24 lbs. approx.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
A136185	35°	4	0	35	2000	3/4"
A136180	35°	4	0	65	2000	1"
A136182	35°	4	0	80	2000	1"
A136195	35°	4	0	100	2000	1-1/4"



STINGRAY NOZZLES

Simply the best. Most efficient nozzle ever developed for cleaning 18" and larger diameter pipe. Weighted and balanced to ride evenly in the bottom of the pipe. Hose swivel and rollover bar virtually eliminate flip over. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
A136215	11°/18°/45°	6	0	35	2000	3/4"
A136210	11°/18°/45°	6	0	65	2000	1"
A136230	11°/18°/45°	6	0	70	2900	1"
A136220	11°/18°/45°	6	0	80	2000	1"
A136225	11°/18°/45°	6	0	80	2500	1"



CULVERT NOZZLES

Made of rugged heat-treated aluminum alloy. The weight can be adjusted by adding sand or lead shot into a hollow cavity at the bottom of the nozzle. A tow eye is cast into the front and a hose swivel is included. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
A130426	11°/18°/35°	6	0	35	2000	3/4"
A130425	11°/18°/35°	6	0	65	2000	1"
A130428	11°/18°/35°	6	0	80	2000	1"
A130427	11°/18°/35°	6	0	80	2500	1"
A130429	11°/18°/35°	6	0	100	2000	1-1/4"



NOZZLE ORIFICE CLEANING KIT

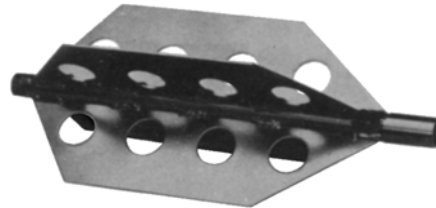
Cleans out nozzle orifices to maintain nozzle performance and specification.

Part No.	Description
J-1850	Nozzle Orifice Cleaning Kit

J Style



A Style



NOZZLE GUARDS (CENTERING SKIDS)

Centers nozzle in the pipe. Maximizes cleaning efficiency for any nozzle that sprays in a 360° (radial) pattern. Cuts nozzle wear by 50%. A must for all rotating nozzles. Female NPT on the inlet end for the hose and male NPT on the outlet end for the nozzle

Part No.	For Pipe Sizes	NPT Size
J-40-7	4" - 6"	1/2"
J-40-5	5" - 7"	3/4"
A130014	6" - 8"	3/4"
A130024	10" - 12"	3/4"
A130034	15" - 21"	3/4"
J-40-6	5" - 7"	1"

Part No.	For Pipe Sizes	NPT Size
A130010	6" - 8"	1"
A130020	10" - 12"	1"
A130030	15" - 21"	1"
A130011	6" - 8"	1-1/4"
A130021	10" - 12"	1-1/4"
A130031	15" - 21"	1-1/4"



NOZZLE EXTENSIONS

Prevents the sewer hose from reversing direction in larger pipes. Also prevents nozzle from entering a lateral pipe. Helps reduce wear on sewer hose.

Part No.	Length	NPT Size
J-40-3	12"	1/2"
A130004	12"	3/4"
A130001	12"	1"
A130002	12"	1-1/4"






LEADER HOSES

Most of the wear on a sewer cleaning hose occurs on the first several feet working through the sewer. By adding a leader hose one can extend the life of the main roll of hose. Female fitting on hose end to male fitting on nozzle end.

Part No.	NPT Size	Length	Max Working	Cover Material	Stocking Status
J-1911	3/8"	10'		Rubber	Special Order
J-1909	3/8"	20'	4000 psi	Thermoplastic	Normally Stocked
J-1910	1/2"	20'	4000 psi	Thermoplastic	Normally Stocked
J-1946	5/8"	20'		Rubber	Special Order
J-1931	3/4"	10'	2500 psi	Thermoplastic	Call for Availability
A176105	3/4"	10'	3000 psi	Rubber	Special Order
J-1905	3/4"	20'	2500 psi	Rubber	Normally Stocked
A176106	3/4"	20'	3000 psi	Rubber	Special Order
A249253	3/4"	25'	3000 psi	Rubber	Special Order
J-1919	1"	3'		Rubber	Call for Availability
J-1923	1"	4'		Rubber	Special Order
J-1933	1"	10'	2500 psi	Thermoplastic	Call for Availability
A176100	1"	10'	2000 psi	Rubber	Normally Stocked
A176107	1"	15'	2000 psi	Rubber	Call for Availability
A176110	1"	20'	2000 psi	Rubber	Normally Stocked
J-1934	1"	25'	2500 psi	Thermoplastic	Normally Stocked
A176115	1"	25'	2000 psi	Rubber	Call for Availability
A176104	1"	30'	2000 psi	Rubber	Special Order
A176101	1-1/4"	10'	2000 psi	Rubber	Special Order
A176102	1-1/4"	20'	2000 psi	Rubber	Special Order
A176103	1-1/4"	25'	2000 psi	Rubber	Special Order

SEWER HOSE SWAGE FITTINGS

These swage fittings are specifically designed for the sewer hose we sell. Note: Manufacturer's equipment required to install these ends. Use of other fittings and equipment is at users own risk. Due to the higher pressures involved with 3/8" and smaller hoses, the manufacturer does not supply replacement fittings for them.

		1/2" 4000 PSI Hose	3/4" 2500 PSI Hose	1" 2500 PSI Hose	1 1/4" 2500 PSI Hose
	Male End	J-1942-1	A170040	A170020	A381705
	Female End	J-1942-2	J-1940-4	J-1941-4	TBA
	Mender	J-1942-3	A170035	A170030	A381706



SEWER CLEANING HOSES

Constructed from materials selected to provide rugged and reliable service under even the most severe and demanding conditions found in high pressure sewer cleaning.

These sewer cleaning hoses are constructed with a polyolefin tube which provides maximum resistance to the hydrolysis commonly associated with other thermoplastic tube materials. Reinforcement with high tensile polyester fiber contributes to an exceptionally low volumetric expansion rate and eliminates loss of strength from moisture absorption.

A polyether-urethane cover provides exceptional cut, abrasion and fungus resistance. And, lastly, all components are bonded together to maximize fitting retention and wear resistance, and to provide smaller minimum bend radii.

SIZE	3/16"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
Ends	1/8" MNPT x 1/4" MNPT	1/4" MNPT x 1/4" MNPT	3/8" MNPT x 3/8" MNPT	1/2" MNPT x 1/2" MNPT	3/4" MNPT x 3/4" MNPT	1" MNPT x 1" MNPT	1-1/4" MNPT x 1-1/4" MNPT
Press.	4000 PSI	5000 PSI	4000 PSI	4000 PSI	2500 PSI	2500 PSI	2500 PSI
Color	GREEN	RED	GREEN	GREEN	ORANGE	ORANGE	ORANGE
50'	available			J-1942-50P			
75'	15009-075			available			
100'	15009-100	20037-100	20032-100	J-1942-100P	A175150-10	A175211	
150'	15009-150	20037-150	20032-150	J-1942-150P	available	available	
200'	15009-200	20037-200	20032-200	J-1942-200P	A175150-11	A175213	available
250'		available	20032-250	J-1942-250P	J-1940-250P	available	available
300'		available	20032-300	J-1942-300P	A175150-12	A175221	available
400'		available	20032-400P	J-1942-400P	A175150-21	A175231	A175281
500'		available	available	J-1942-500P	A175150-22	A175241	A175282
600'			available	J-1942-600P	A175150-23	A175252	A175283
700'				J-1942-700P	A175150-24	A175261	available
750'				available	J-1940-750P	available	available
800'				J-1942-800P	A175150-25	A175271	available
1000'				J-1942-1000P	J-1940-1000P	J-1941-1000P	A381626



SWIVEL UNIONS

Female pipe to female pipe swivel unions for joining two sections of hoses together.

Hose Size	3/16" Hose	1/4" Hose	3/8" Hose	1/2" Hose	3/4" Hose	1" Hose
Part Number	9255X2X2	9255X4X4	9255X6X6	A381980	A338105	A130690



STEP DOWN SWIVEL UNIONS

For joining a smaller size sewer hose to a larger size. For attaching lateral line kits, pressure wands, etc. Note: Be careful not to exceed the pressure rating of your unit.

Hose Sizes	1/4" to 3/16"	3/8" to 1/4"	1/2" to 3/8"	3/4" to 1/2"	1" to 3/4"
Part Number	9255X4X2	9255X6X4	9255X8X6	9255X8X12	A249058



"LIVE" SWIVELS

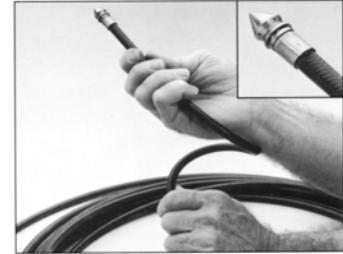
Allows attachments to swivel freely without twisting the hose. Male pipe to female pipe

Hose Size	1/4" Hose	3/8" Hose	1/2" Hose	3/4" Hose	1" Hose
Part Number	TBA	TBA	TBA	A130848	A130849

TRAP HOSE

For cleaning residential and industrial "S" traps and other small diameter lines.

Part No.	Hose Size	Hose Length	NPT Hose Ends	Hose PSI
15031-50	1/8"	50'	1/8"M x 1/8"M	4000
15031-100	1/8"	100'	1/8"M x 1/8"M	4000



TRAP HOSE KITS

Trap hose with nozzle.

Part No.	Hose Size	Hose Length	NPT Hose Ends	Hose PSI	Nozzle	NPT Adapter
OBJ-1723K	1/8"	25'	1/8"M x 1/8"M	4000	1/8" 4gpm	1/8"F to 1/4"F
OBJ-1722K	3/16"	75'	1/4"M x 1/8"M	4000	1/8" 4gpm	3/8"F to 1/4"F
A136260	1/4"	65'	1/4"FS x 1/8"M	5800	1/8" 3-20gpm	None

OBJ-1724K
OBJ-40027A



J-2432
J-2432-2
J-2434
J-2434A
J-2434-200
J-2436



A249182



LATERAL LINE KITS

Part No.	Inlet Size	Hose Size	Hose Length	Max PSI	Nozzle	Control
OBJ-1724K	3/8"FNPTS	3/8"	150'	3000 (reel)	none	OBJ-20027B +
J-2432	*	3/8"	150'	3000 (reel)	two 3/8" 10gpm	none
J-2436	*	3/8"	150'	3000 (reel)	two 3/8" 10gpm	3/8" Ball Valve
J-2432-2	*	3/8"	200'	3000 (reel)	two 3/8" 10gpm	3/8" Ball Valve
OBJ-40027A	1/2"FNPTS	3/8"	150'	3000 (reel)	two 3/8" 10gpm	OBJ-20027A +
A249485	1/2"FNPT	1/2"	150'	4000 (hose)	1/2" 20gpm	A249183 +
A249182	1/2"FNPT	1/2"	150'	3000 (reel)	1/2" 20gpm	A249183 +
J-2434	3/4"FNPT	1/2"	150'	3000 (reel)	1/2" 40gpm	3/4" Ball Valve
J-2434-200	3/4"FNPT	1/2"	200'	3000 (reel)	1/2" 40gpm	3/4" Ball Valve
J-2434A	1"FNPT	1/2"	150'	3000 (reel)	1/2" 60gpm	1/2" Ball Valve

* 3/8" Female Hand Gun Quick Connector

+ Foot Control - (see next page)



A Style



OBJ Style

FOOT CONTROLS

For auxiliary hose reels and lateral line kits.

Part No.	Inlet NPT	Outlet NPT	Outlet Hose	Max PSI
A249183	1/2" F	1/2" F	none	10000
OBJ-20027	1/4" F	1/4" F	none	5000
OBJ-20027A	1/2" FS	3/8" MS *	3'	5000
OBJ-20027B	3/8" FS	3/8" MS *	3'	5000

*3/8" to 1/2" pipe bushing included

F=Female FS=Female Swivel MS=Male Swivel



30027-2
A130560
A249184

30027-14
30027A
•
30027B
(no hose)



OB40027A

AUXILIARY HOSE REELS

Part No.	Hose Size	Reel Capacity	Spool Width	Hose	Max PSI
30027-14	1/4"	200'	6"	1/4" x 150'	2750
30027A	3/8"	150'	6"	3/8" x 150'	3000
30027B	3/8"	150'	6"	none	3000
OB40027A	3/8"	150'	6"	3/8" x 150'	3000
30027-2 (black) A130560 (red)	1/4" *	200'	6"	none	3000
	3/8" **	150'			
	1/2"	100'			
A249184	1/4" *	400'	12"	none	3000
	3/8" **	300'			
	1/2"	200'			

*A133640 1/2" x 1/4" Reducer Bushing required

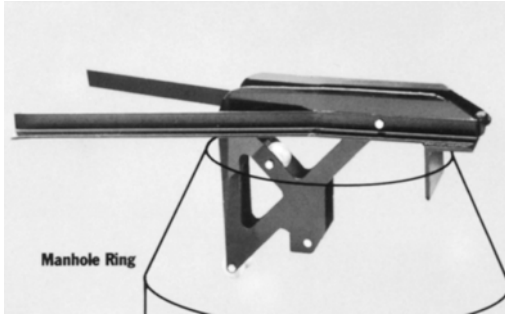
** A133650 1/2" x 3/8" Reducer Bushing required

FLEXIBLE HOSE GUIDES (TIGER TAILS)

Protects the sewer cleaning hose from chafing against the edge of the pipe inside a manhole. Includes a rope for lowering and securing the guide thus eliminating the need to enter the manhole.

Part No.	I.D.	Length	Rope Length
J-2204	2"	36"	25'
J-2203	3"	36"	25'
J-2205	3"	42"	25'
A234937	3"	42.5"	no rope
A235006	3"	42.5"	20'
J-2206	4"	36"	25'





TOP MANHOLE ROLLERS

Used when manholes are not in line with the reel. Protects hose from scuffing and allows hose to glide over manhole edge.

Part No.	Width	Length
A220120	16.5"	34.5"



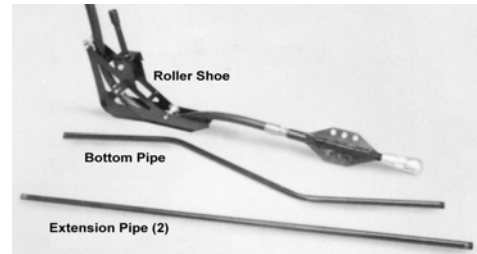
Part No.	Width	Length
J-2401	12"	38"



MANHOLE SAFETY COVERS

The wire grid safely covers the manhole but still allows for good visibility below. Bolts on the rim allow for adjustment to the specified diameters.

Part No.	Manhole Size
2023	20" to 23"
2326	23" to 26"
2630	26" to 30"



BOTTOM MANHOLE ROLLER

Secures in place from the surface. Pipes are used to lower and to hold the roller shoe in place. NOTE: Nozzle, nozzle guard & jetter hose shown for illustration purposes only

Part No.	DESCRIPTION
A239183	Roller shoe and pipes (15' reach)
A235259	Roller shoe only



FILL HOSE

Part No.	DESCRIPTION
J-2443	2" X 25'
A176150	2-1/2" x 25'
A176154	2-1/2" x 50'



MANHOLE HOOKS

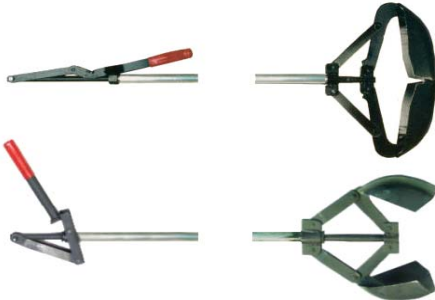
Part No.	DESCRIPTION
015-443	24" w/Perpendicular Loop Handle
251-429	24" w/Parallel Loop Handle
A221800	29" w/Perpendicular T-Handle
251-438	36" w/Parallel Loop Handle

PORTABLE GAS POWERED WATER PUMP

Part No.
MPCH



System includes:
1" Suction Hose
Suction Strainer
Garden Hose Adapter
Spark Plug Tool



CLAM SHELL BASIN CLEANER

For cleaning debris out of catch basins. Will pick up large objects like bricks, stones and wet leaves. The over-center lever mechanism locks the jaws during lifting to prevent dropping the load.

Part No.	Length
A220040	6 foot
A220050	8 foot
A220060	10 foot
A220070	12 foot
A220080	15 foot



BASIN SCRAPER

Part No.	Length
A220082	Scraper with 6' Handle



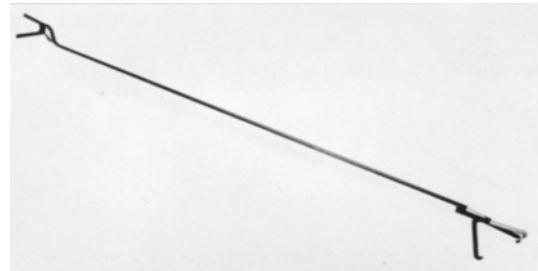
MANHOLE JACK

Part No.	DESCRIPTION
M-4001	Manhole Jack



HYDRANT WRENCH

Part No.	DESCRIPTION
A220330	Hydrant Wrench



MANHOLE GRAPPLE TONG

Used to retrieve large objects in manholes and catch basins. Eliminates the need to enter the hole.

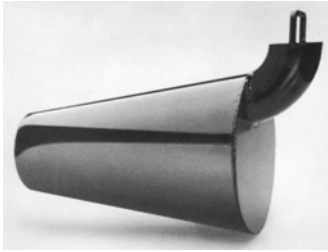
Part No.	Length
A238061	98" Overall Length



MANHOLE DEBRIS GRABBER

Three sections, each 5 feet long, easily collapsible. Equipped with 20' of rope. Made of rugged steel for long life

Part No.	Length
OBJ-299	5' to 15' Telescoping



MANHOLE TRAPS

Inserts into downstream side of pipe in manholes. Prevents solids and debris from entering pipe while allowing water to overflow downstream while jetting the opposite pipe. Loop provided to attach rope.

Part No.	Description
A220010	Small (6" to 8")
A220020	Medium (10" to 12")
A220030	Large (15" to 18")



GRIT CATCHERS

With a grit catcher at the manhole opposite the hose entrance, you can remove cobble and other debris before it's carried further downstream by your flush water. 3/4"NPT pipe fitting on a swivel bracket for attaching pipe to lower grit catcher into place.

Part No.	Description
OB00016A	6" Grit Catcher
OB00018A	8" Grit Catcher



SAFETY CONES

Part No.	Height	Color	Traffic Speed	Night Use	Comment
A225004	18"	Orange	≤ 44 mph	No	Plain
A225004-1	18"	Lime	Pedestrian		Plain
A225005	28"	Orange	≥ 45 mph	No	Plain
A225005-36	36"	Orange	≥ 45 mph	Yes	2 Reflective Stripes
A225006	36"	Orange	≥ 45 mph	Yes	Reflective Chevron Stripes