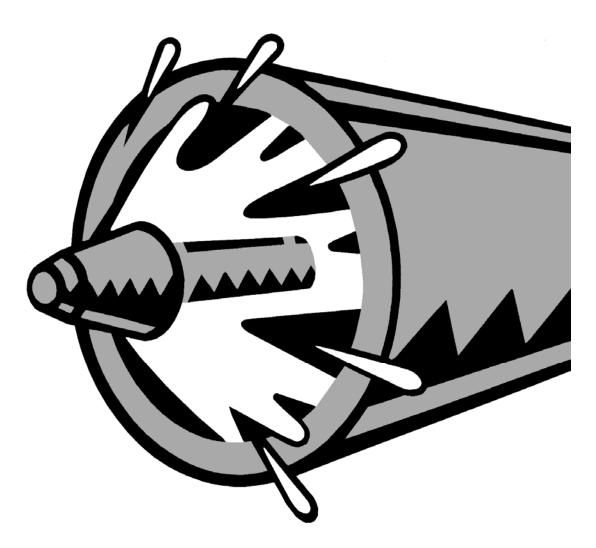


A PRODUCT OF HI-VAC CORPORATION



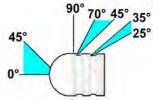


JETTING ACCESSORIES



### **BUTTON NOSE NOZZLES**





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  $25^{\circ}$  to  $35^{\circ}$ . The forward groove accommodates flushing angles from  $45^{\circ}$  to  $70^{\circ}$ . The nose area permits angles of  $0^{\circ}$  (straight forward) to  $45^{\circ}$ . Made of Heat Treated 416 Stainless Steel. See caution note below.



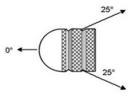
A word of caution on custom drilled nozzles: Make sure all the information is correct when ordering as these nozzles will be drilled to order and are not returnable.



#### **BUTTON NOSE FLUSHERS**

Good general purpose cleaning nozzle. Also for follow up after cleaning out blockages to remove left over debris. For runs up to 100 ft. Button nose nozzles are made of heat treated 416 Stainless Steel.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
140215FL	45°	6	0	1.7	1500	1/4"
380215FL	45°	6	0	2.2	1500	3/8"
380430BNFL	45°	6	0	4	3000	3/8"
380437BNFL35	35°	6	0	4	3750	3/8"
380437BNFL	45°	6	0	4	3750	3/8"
380442BNFL	45°	6	0	4	4200	3/8"
380525FL	45°	6	0	5	2500	3/8"
380530FL	45°	6	0	4.8	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"
121317FL	45°	6	0	13	1700	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. Made of heat treated 416 Stainless Steel.

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"
180440PE	25°	3	1	4	4000	1/8"
140215PE	25°	3	1	1.7	1500	1/4"
140224BNPE	35°	3	1	2.2	2400	1/4"









### **BUTTON NOSE PENETRATORS (CONTINUED)**

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
380215PE	25°	3	1	2.2	1500	3/8"
380430BNPE	25°	4	1	4	3000	3/8"
380437BNPE	25°	3	1	4	3750	3/8"
380440BNPE	25°	4	1	4	4000	3/8"
380442BNPE	25°	3	1	4	4200	3/8"
380530PE	25°	3	1	4.8	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"
121430BNTH	25°	3	1	14	3000	1/2"
121525BNPE	35°	6	1	15	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 VORTEX (AKA MONSTER) PENETRATORS**

Dual angle, great for breaking up ice.

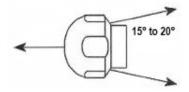
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
380525MO	25°/45°	6	1	5	2500	3/8"



#### **ROUND HEAD SUPER THRUSTERS**

The wider head design of this nozzle allows for steeper jet angles which results in more puller power. Ideal for long runs. (HT416SS)

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"
380430RHTH	15°	3	1	4	3000	3/8"
380530RHTH	15°	3	1	4.8	3000	3/8"
121025RHTH	15°	3	1	10	2500	1/2"
121317PE	15°	6	1	13	1700	1/2"
121536RHTH	15°	6	1	15	3600	1/2"



Round Head Super Thruster nozzles can be custom drilled to meet your specifications. The  $15^{\circ}$  to  $20^{\circ}$  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.



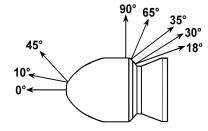
### **RADIAL NOZZLES**





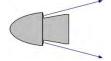
Typical O'Brien Styles

Typical Aquatech Style



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.

### **RADIAL THRUST NOZZLES**



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

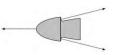
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
121025RNTH	20°	6	0	10	2500	1/2"
A136425	15°	6	0	15	3000	3/4"
A136015	15°	6	0	35	2000	3/4"
A136048	15°	6	0	35	2500	3/4"
A136046	15°	6	0	44	3000	3/4"
A136051	15°	6	0	45	2000	3/4"
A136041	15°	6	0	50	2000	3/4"
A136041-3000	15°	6	0	50	3000	3/4"
A249109	15°	6	0	45	2500	3/4"
A136421	15°	6	0	65	2000	3/4"
A136430	15°	6	0	45	2500	1"
A136096	15°	6	0	50	2500	1"
A136001	15°	6	0	60	2000	1"
A136000	15°	6	0	65	2000	1"
A136423	15°	6	0	65	2500	1"
A249085	15°	6	0	65	2500	1"
A136002	15°	6	0	80	2000	1"
A136023	15°	6	0	80	2500	1"
A249096	15°	6	0	85	2000	1"
019025RNTH	18°	6	0	90	2500	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"







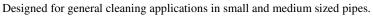
### PENETRATING RADIAL THRUST NOZZLES



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"
121230PE	25°	6	1	12	3000	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"
341840PE	25°	6	1	18	4000	3/4"
343020PE	25°	6	1	30	2000	3/4"
343030PE	25°	6	1	30	3000	3/4"
344020RNTH	18°	6	1	40	2000	3/4"
344020PE	25°	6	1	40	2000	3/4"
344030PE	25°	6	1	40	3000	3/4"
J-1147	18°	6	1	65	2000	1"
018020PE	25°	6	1	80	2000	1"
A136023-F	15°	6	1	80	2500	1"
0110025PE	18°	6	1	100	2500	1"

### **RADIAL FLUSHER NOZZLES**



Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
121025FL	35°	6	0	10	2500	1/2"
A381255 *	35°	6	0	15	3000	1/2"
121230FL	35°	6	0	12	3000	1/2"
121536FL	35°	6	0	15	3600	1/2"
121830FL	35°	6	0	18	3000	1/2"
121840FL	35°	6	0	18	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"
A136042	35°	6	0	50	2000	3/4"
A136042-3000	35°	6	0	50	3000	3/4"
A136422	35°	6	0	65	2000	3/4"







### RADIAL FLUSHER NOZZLES (CONTINUED)

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A136431	35°	6	0	45	2500	1"
A136005	35°	6	0	65	2000	1"
A136424	35°	6	0	65	2500	1"
A249086	35°	6	0	65	2500	1"
A136007	35°	6	0	80	2000	1"
A136024	35°	6	0	80	2500	1"
A249097	35°	6	0	85	2000	1"
0110025FL	35°	6	0	100	2500	1"
A136059	35°	6	0	80	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	GРM	PSI	NPT Size
121525FL	30°	6	1	15	2500	1/2"
A136385	30°	6	1	25	4000	1/2"
343520PE	30°	6	1	35	2000	3/4"
344020RNFL	30°	6	1	40	2000	3/4"
015030RNPE	35°	6	1	50	3000	1"
J-1141	30°	6	1	65	2000	1"



and medium sized pipes.

Part No.

Prop. Angle

Rear Jets

Fwd. Jets

GPM

PSI

NPT Size

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"
A136054	15°/45°	12	0	65	2000	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

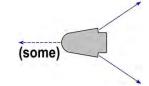
Dual degree design with forward firing jet.

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"

#### PENETRATING RADIAL VORTEX NOZZLE CONTINUED

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
J-1149	18°/24°	6	1	55	2000	1"
016520RNMV	18°/25°	6	1	65	2000	1"





### **MUSHROOM FLUSHER NOZZLES**

Designed for flushing material back to the trap.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
J-1015	30°	6	0	65	2000	1"
J-1021	30°	6	1	65	2000	1"

### **MUSHROOM 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"



### **GREASE REMOVER NOZZLES**

More rear jets for removing grease and detergent from the pipe wall.

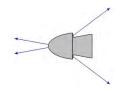
Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A130197	35°	10	0	25	4000	1/2"
A130196	35°	12	0	25	4000	3/4"
A130195	35°	12	0	65	2000	1"
A130198	35°	12	0	80	2000	1"











### RADIAL DEGREASER/DEICER NOZZLE

Same purpose as the above but for larger hoses. See information on page 3 for custom drilled radial nozzles.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
344020DE	35°	6	3 @ 10°	40	2000	3/4"
016520DE	35°	6	3 @ 10°	65	2000	1"





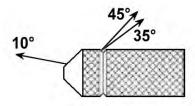
### JUMPER DEGREASER/DEICER NOZZLES

OLD STYLE

**NEW STYLE** 

Designed to penetrate heavy grease, soap, and ice filled lines. A great all-around nozzle! New style made of heat treated 416 SS. Note: Old style degreaser/deicer nozzles are being phased out as existing inventories are depleted.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
180430DE	45°	6	3 @ 10°	4	3000	1/8"
140430DE	45°	6	3 @ 10°	4	3000	1/4"
380437DE	45°	6	3 @ 10°	4	3750	3/8"
380442DE	45°	6	3 @ 10°	4	4200	3/8"
380438DE	35°	6	3 @ 10°	4	3800	3/8"
380530DE	45°	6	3 @ 10°	4.8	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 heat treated 416 stainless steel, they all feature three  $10^{\circ}$  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  $10^{\circ}$  forward jets (see Button Nose nozzles). See caution note on page 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. Imported

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
A135990	25°	6	4	5	4000	1/4"
A135994	25°	6	4	12	2000	1/2"
A135991	25°	6	4	20	2000	1/2"
A135992	25°	6	4	35	2000	3/4"
A135996	25°	6	4	40	2000	3/4"
A135993	25°	6	4	65	2000	1"
A135995	25°	6	4	80	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"
A136155	15°	6	1	35	2000	3/4"
A136158	15°	6	1	40	2000	3/4"
A136150	15°	6	1	65	2000	1"
A136165	15°	6	1	65	2500	1"
A136151	15°	6	1	80	2000	1"



#### SAND NOZZLES

Specially designed to lift and float sand that's otherwise difficult to move. For 4" to 18" pipes

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
016020SN	15°	6	2 @ 90°	60	2000	1"
016520SN	15°	6	2 @ 90°	65	2000	1"
018020SN	15°	6	2 @ 90°	80	2000	1"







### PENETRATOR NOZZLES

The Penetrating Nozzle is effective when a line is plugged and break up the stoppage fast.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GPM	PSI	NPT Size
J-1102	30°	5	0	35	2000	3/4"
J-1104-80	30°	5	0	80	2000	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	12°	6	1 (4 side)	65	2000	1"



### **RADIAL WITH LANCE TIP NOZZLES**

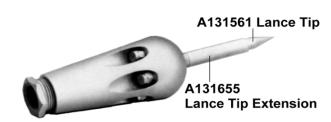
For cleaning totally blocked lines. 90° spray from lance tip opens a hole in blockage allowing the nozzle to jump forward.

Part No.	Prop. Angle	Rear Jets	Lance Jets	GPM	PSI	NPT Size
A136125	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. Cast Aluminum Body. Orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Lance Jets	GPM	PSI	NPT Size
A130140	11°	6	6	35	2000	3/4"
A130145	11°	6	6	40	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. Cast Aluminum body. Orifices are replaceable. An 1/4" pipe plug can be removed and substituted with an optional front orifice (p/n A131520) to create a penetrator nozzle.

Part No.	Prop. Angle	Rear Jets	Fwd. Jet	GPM	PSI	NPT Size
A130130	11°	6	Optional	35	2000	3/4"
A130340	11°	6	Optional	65	2000	1"
A130341	11°	6	Optional	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	40	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. Jet	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"







#### 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. Cast aluminum body. For pipes 8" to 36" in diameter. Orifices are replaceable. An 1/8" pipe plug can be removed and substituted with an optional front orifice (p/n A131543) to create a penetrator nozzle.

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

#### STORM VORTEX NOZZLES

Combines good forward propulsion while affording wide angle cleaning. Optional A131543 front orifice can be added.

Part No.	Prop. Angle	Rear Jets	Opt. Fwd. Jet	GPM	PSI	NPT Size
A130160	15°/35°	8	Optional	35	2000	3/4"
A130400	15°/35°	8	Optional	65	2000	1"
A130390	15°/35°	8	Optional	80	2000	1"
A130403	15°/35°	8	Optional	80	2500	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. An 1/8" pipe plug can be removed and substituted with an optional front orifice (p/m A131543) to create a penetrator nozzle.

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









#### 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°	8	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	40	2000	3/4"
J-1403	15°/30°	16	1	65	2000	1"



### **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"

### PENETRATING TANDEM GANG NOZZLES

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
J-1207	30°	16	1	40	2000	3/4"
J-1215	30°	16	1	65	2000	1"









#### **ROCKET NOZZLE**

Aerodynamic design and three low degree orifices provides full thrust. Designed to remove sand, gravel, dirt, soap clogs and grease from lines. Ideal for 6 to 18" pipes. 14-1/4"L x 3-3/4"Dia. Approx. 15lbs.

Part No.	Prop. Angle	Rear Jets	Fwd. Jets	GРM	PSI	NPT Size
A136183	12°	3	1	40	2000	3/4"
A130438	12°	3	1	60	2000	1"
A136184	12°	3	1	65	2000	1"
A136182	12°	3	1	80	2000	1"
A136188	12°	3	1	80	2500	1"



#### **TADPOLE NOZZLES**

Our best all around cleaning nozzle for 8" to 24" pipes. Highly effective for removing grease from the pipe wall. Removes standing water. The stainless steel orifices are replaceable.

Part No.	Prop. Angle	Rear Jets	Front Jets	GPM	PSI	NPT Size
A136298	8°/16°	12	Optional	40	2000	3/4"
A136300	17°/24°	12	Optional	65	2000	1"
A136299	17°/24°	12	Optional	80	2000	1"
A136297	8°/16°	12	Optional	80	2500	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. Imported

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"
A136187	35°	4	0	80	2000	1"
A136195	35°	4	0	100	2000	1-1/4"







#### STINGRAY NOZZLES

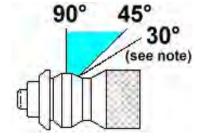
Simply the best. Most efficient nozzle ever developed for cleaning 18" and larger diameter pipe. Weighted and balanced to ride evenly in the bottom of the pipe. Hose swivel and rollover bar virtually eliminate flip over. The body measures 14"L x 7"W x 6.5"H. Orifices are replaceable. Note: 2000psi max

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

## **ROTATING NOZZLES**



#### **ROTOR-JET POLISHER NOZZLES**



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.

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"
380442PO	45°	2	2 @ 90°	4	4200	3/8"
380530PO	45°	2	2 @ 90°	4	3800	3/8"
300330FO	45	۷	2 @ 90	5	3000	3/0
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"









#### **SPIN CLEAN NOZZLES**

This stainless steel rotating nozzle scours the pipe wall loosening hard debris. Ideal for pipes with limestone and other mineral deposits. Also effective for removing grease build-up. Centering skids are recommended to achieve the best cleaning action. Imported

Part No.	Prop. Angle	Rear Jets	Side Jets	GPM	PSI	NPT Size
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"



#### **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. Imported

Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
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. Imported.

Part No.	Prop. Angle	Rear Jets	Rotor Jets	GPM	PSI	NPT Size
A136105	25°	6 *	5	35	2000	3/4"
A136100	25°	6 *	5	60	2000	1"
A136102	25°	6 *	5	80	2000	1"

\* Replaceable



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.









#### **ROTATING CHAIN NOZZLES**

Chains rotate at a high speed removing hard deposits, such as slag, calcium and limestone. Also good for paint, epoxy, and other accidental spills. Will open blockages caused by grease, sand and roots. Square profile chain made of high quality steel. Centering skids are recommended. Orifices are replaceable. Imported.

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	2000	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"



WARNING: In order to avoid possible property damage and personal injuries when handling these tools, we recommend that the nozzle be exposed to gradual system pressure only after it has been set and secured inside the pipe, away from the operator. Hi-Vac Corporation is not responsible for situations resulting from the improper use of this tool and for different operation from that it has been designed and intended for.

#### REPLACEMENT CHAIN FOR ROTATING CHAIN NOZZLES

Three required per nozzle (except for bulk replacement chain)

	Fo	or 1/2" & 3/4" Nozzles	For 1" & 1-1/4" Nozzles		
Length	Part Number	Approx. Working Diameter	Part Number Approx. Working Diameter		
6" Long (150mm)	A136241 *	4" to 6"	N/A		
8" Long (200mm)	A136248	6" to 8"	A136242 *	6" to 10"	
12" Long (300mm)	A136251	8" to 12"	A136249 10" to 14"		
16" Long (400mm)		N/A	A136246	14" to 18"	
20" Long (500mm)		IN/A	TBA	18" to 22"	
36" Long (900mm)	A136241-6	Bulk Replacement Chain	A136242-6	Bulk Replacement Chain	

\* standard length supplied with nozzle



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.











### O'BRIEN™ MINI ROOT CUTTER KIT

Powered by the jetter's water pressure, these fierce root cutters spin at extremely high torque. Kits include tool box and all necessary hardware. 5/8" output shaft

Part No.	GPM	PSI	NPT Size	Saws & Skids Included
OBJ-1468	10 - 15	800 - 2500	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)

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



#### MAINLINE ROOT CUTTER KIT

Powered by the jetter's water pressure, these fierce root cutters spin at hardware. 1" output shaft.



Il necessary

Part No.	GPM	PSI	NPT Size	Saws & Skids Included
OBJ-1468	10 - 15	800 - 2500	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-1603-P	35 - 80	900-1500	1"	6", 8", 10" & 12" (concave saws)



A NOTE ABOUT ALL ROOT CUTTING NOZZLES: In order to extend the life of these nozzles, be sure to follow the instructions on lubricating the internal components after each use.







### REPLACEMENT ROOT CUTTER ATTACHMENTS

		BLADES			SK	IDS
ROOT CUTTER ATTACHMENTS			0			
	Flat Saws	Concave Saws	Tapered Saws	Cutter Blades *	Mini	Mainline
3" pipe	M-1003					
4" pipe	M-1004	M-2004	M-3004		-	
6" pipe	M-1006	M-2006	M-3006	A131010	J-1469-6	J-1603-6S
8" pipe	M-1008	M-2008	M-3008	A131020	J-1469-8	J-1603-8S
10" pipe	M-1010	M-2010	M-3010	A131030	J-1469-10	J-1603-10S
12" pipe	M-1012	M-2012	M-3012	A131040	J-1469-12	J-1603-12S
15" pipe	M-1015	M-2015	M-3015	A131050		J-1603-15S
18" pipe	M-1018	M-2018	M-3018			

<sup>\*</sup> Root cutters with 1" output shafts only, requires a chuck from below.









Part No.	Description
J-1469-BH	Root cutter saw chuck for Lateral (5/8" output shaft) root cutters
J-1700-P	Root cutter saw chuck for Mainline (1" output shaft) root cutters
J-7000	Cutter blade chuck for obsolete O'Brien™ (1" output shaft) root cutters
A131080	Cutter blade chuck for obsolete Aquatech™ (1" output shaft) root cutters

Note: Either of the above cutter blade chucks will fit the newer mainline root cutter if user wishes to use the cutter blades.













Style 1

Style 2

Style 3

Note: Styles may vary.

### **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.	NPT Size	Skid Diameter	O.A. Length	Pipe Range	Style
J-40-4	3/8"	3"	7"	4" to 6"	2
J-40-7	1/2"	3.75"	14"	5" to 7"	2
J-40-5	3/4"	4"	14-1/2"	5" to 7"	2
A130014	3/4"	5.05"		6" to 8"	3
TBA	3/4"	6"	17"	8" to 10"	2
A130024	3/4"	7.05"		10" to 12"	3
A130034	3/4"	10.55"		15" to 21"	3
J-40-6	1"	4.25"	14-3/4"	5" to 7"	2
A130010	1"	5.315"		6" to 8"	3
TBA	1"	6.25"	17-1/2"	8" to 10"	2
A130020	1"	7.75"	17-3/8"	10" to 12"	3
A130030	1"	10.815"		15" to 21"	3
A130011	1-1/4"	4.75"	14-1/2"	6" to 8"	2
A130021	1-1/4"	6.34"	17"	8" to 10"	2
A130031	1-1/4"	11.16"		15" to 21"	3

#### **NOZZLE EXTENSIONS**

Prevents the sewer hose from reversing direction in larger pipes. Also prevents nozzle form 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"
A130005	10"	1"
A130001	12"	1"
A130002	12"	1-1/4"











### **PIRANHA 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"	11/4"
Ends	1/8" MNPT x	1/4" MNPT x	3/8" MNPT x	1/2" MNPT x	3/4"MNPT x	1" MNPT x	1-1/4" MNPT x
	1/4" MNPT	1/4" MNPT	3/8" MNPT	1/2" MNPT	3/4" MNPT	1" MNPT	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

### **PIRANHA SEWER HOSE SWAGE FITTINGS**

These swage fittings are specifically designed for the sewer hose we sell. Note: Manufacturer's swaging 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.



Hose Size	1/2"	3/4"	1"	11/4"	Required
Working PSI	3000 & 4000	2500 & 3000	2500 & 3000	2500	Tooling
Male End	J-1942-1	A170040	A170020	A381705	Die set & male pusher
Female End	J-1942-2	J-1940-4	J-1941-4	N/A	Die set & female pusher
Mender	J-1942-3	A170035	A170030	A381706	Two die sets











#### **COBRA 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	3/8"	1/2"	3/4	4''	1	**
Ends	3/8" MNPT x 3/8" MNPT	1/2" MNPT x 1/2" MNPT	3/4"MNPT x	3/4"MNPT x 3/4" MNPT		x 1" MNPT
Press.	4000 PSI	4000 PSI	2500 PSI	3000 PSI	2500 PSI	3000 PSI
Color	GREEN	GREEN	ORANGE	BLUE	ORANGE	BLUE
100'	available	J-1942-100-COBRA	available	available	available	available
150'	20032-150-COBRA	J-1942-150-COBRA	available	available	available	available
200'	20032-200-COBRA	J-1942-200-COBRA	available	available	available	available
250'	available	available	available	available	available	available
300'	available	J-1942-300-COBRA	available	available	available	available
400'	available	J-1942-400-COBRA	A175150-21-COBRA	A175166-3000-COBRA	A175231-COBRA	A175233-3000-COBRA
500'	available	J-1942-500-COBRA	A175150-27-COBRA	A175150-22-COBRA	A175241-COBRA	A175241-3000-COBRA
600'	available	J-1942-600-COBRA	A175150-23-COBRA	A175167-3000-COBRA	A175252-COBRA	A175252-3000-COBRA
700'		J-1942-700-COBRA	A175150-24-COBRA	A175168-3000-COBRA	A175261-COBRA	A175261-3000-COBRA
750'		available	A175150-26-COBRA	available	available	available
800'		J-1942-800-COBRA	A175150-25-COBRA	A175169-3000-COBRA	available	available
900'		available	available	available	available	available
1000'		available	J-1940-1000P	available	A175269-COBRA	A175269-3000-COBRA
1100'				available	available	available
1200'				available	available	available

#### COBRA SEWER HOSE SWAGE FITTINGS

These swage fittings are specifically designed for the sewer hose we sell. Note: Manufacturer's swaging 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.

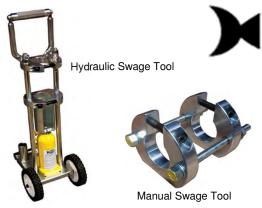


Hose Size	1/2"	3/4"	1"	Required
Working PSI	3000 & 4000	2500 & 3000	2500 & 3000	Tooling
Male End	J-1942-1- COBRA	A170040- COBRA	A170020- COBRA	Die set & male pusher
Female End	J-1942-2- COBRA	J-1940-4- COBRA	J-1941-4- COBRA	Die set & female pusher
Mender	J-1942-3- COBRA	A170035- COBRA	A170030- COBRA	Two die sets









#### **PIRANHA SWAGE TOOLS**

Dies & Pushers are not included, order them separately as needed. Will swage 1/2" to 1-1/4" Fittings

Part No.	DESCRIPTION
A220240-TH	Hydraulic Swage Tool
A220250-TH	Manual Swage Tool

NOTE: In 2013 Piranha introduced new swaging tools dubbed as "Top Hat" style due to the shape of the dies and pushers. If you are ordering a replacement swage tool but wish to continue using the older taper style dies and pushers, two A220220 adapters will have to be ordered as well.





A die set and pusher are required for swaging Piranha end fittings. Two die sets are required for swaging menders

Part No.	Size
A220248	1/2" Top Hat Style
A220221	3/4" Top Hat Style
A220223	1" Top Hat Style
A220225	1-1/4" Top Hat Style



### **PUSHERS** (New Top Hat Style)

Required to swage Piranha end fittings. Pushers are different for male and female swage fittings. Not required for menders which use two dies sets.

PN for Male	PN for Female	Size
A220249	A220232	1/2" TH Style
A220222	A220228	3/4" TH Style
A220224	A220227	1" TH Style
A220226	A220229	1-1/4" TH





### **COBRA SWAGE TOOL**

Part No.	DESCRIPTION
A255078	Hydraulic Swage Tool



#### **COBRA DIE SETS**

For embossing the barrel end of swage fittings

	5· ·· &·
Part No.	Size
A255078-1/2-D	1/2"
A255078-3/4-D	3/4"
A255078-1-D	1"



### **COBRA PUSHERS**

Protects threads on male swage end fittings

		8	
PN for Male	PN for Female	Size	
A255078-1/2-P	TBA	1/2"MNPT	
A255078-3/4-P	TBA	3/4"MNPT	
A255078-1-P	A255078-1-FP	1"MNPT	









#### **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-1909	3/8"	20'	4000 psi	Thermoplastic	Normally Stocked
J-1910	1/2"	20'	4000 psi	Thermoplastic	Normally Stocked
J-1931	3/4"	10'	3000 psi	Thermoplastic	Special Order
A176105	3/4"	10'	2500 psi	Rubber	Special Order
J-1905	3/4"	20'	2500 psi	Rubber	Normally Stocked
A176106	3/4"	20'	3000 psi	Rubber	Normally Stocked
A249253	3/4"	25'	3000 psi	Rubber	Special Order
J-1933	1"	10'	2000 psi	Thermoplastic	Special Order
A176100 rev B	1"	10'	3000 psi	Rubber	Normally Stocked
J-1924	1"	15'	3000 psi	Thermoplastic	Normally Stocked
A176110	1"	20'	2000 psi	Rubber	Normally Stocked
A176115	1"	25'	2000 psi	Rubber	Special Order
J-1934	1"	25'	2500 psi	Thermoplastic	Normally Stocked
A176101	1-1/4"	10'	2000 psi	Rubber	Special Order

### "LIVE" SWIVELS

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

Hose Size	1/2" Hose	3/4" Hose	1" Hose
Part Number	A130847	A130848	A130849



#### **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







### **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
15030-025	1/8"	25'	1/8"M x 1/8"M	3000
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



### **LATERAL LINE KITS**

Part No.	Hose Size	Hose Length	Inlet Connection	Control	Nozzle(s)	Max PSI
A130541	1/2"	100' RU	3/4"FNPT	A130546 *	1/2" 20gpm Ellipse	2000 (control)
A130540	1/2"	100' RU	1"FNPT	A130545 *	1/2" 20gpm Ellipse	2000 (control)
A249485	1/2"	150' RU	1/2"FNPT	A249183 +	1/2" 20gpm Ellipse	4000 (hose)

<sup>\*</sup> Foot Lever Ball Valve







### LATERAL LINE KITS WITH HOSE REEL & CART

Part No.	Hose Size	Hose Length	Inlet Connection	Control	Nozzle(s)	Max PSI		
OBJ-1724K	3/8"	150' TP	3/8"FNPTS	OBJ-20027B +	none	3000 (reel)		
OBJ-40027A	3/8"	150' TP	1/2"FNPTS	OBJ-20027A +	two 3/8" 10gpm	3000 (reel)		
OBJ-40028A	3/8"	200' TP	1/2"FNPTS	OBJ-20027A +	two 3/8" 5gpm	3000 (reel)		
OBJ-40028B	3/8"	300' TP	1/2"FNPTS	OBJ-20027A +	two 3/8" 5gpm	3000 (reel)		
A249182	1/2"	150' RU	1/2"FNPT	A249183 +	1/2" 20gpm Ellipse	3000 (reel)		
A249182-200TP	1/2"	200' TP	1/2"FNPT	A249183 +	1/2" 20gpm Ellipse	3000 (reel)		

<sup>+</sup> Foot Control - (see next page)



<sup>+</sup> Foot Control - (see next page)









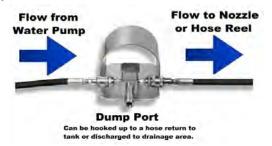
#### **FOOT CONTROLS**

For auxiliary hose reels and lateral line kits. Note: "Dry Shut" foot controls will dead head the inlet when pedal is not depressed. The "Dump" style will continue supplying water through the hose, but at low pressure, while the dump port relieves the pressure by bypassing the water onto the ground or can be directed by a hose back to the tank or into a drain.

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

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

F=Female FS=Female Swivel MS=Male Swivel



Note: The "Dump" style foot control does not completely shut the water off to the nozzle or hose reel. It just drops the pressure by opening the dump port.



#### **AUXILIARY HOSE REELS**

Part No.	Hose Size	Adapter Req. *	Reel Capacity	Spool Width	Max PSI	Comment
30027B	3/8"	none	150'	6"	3000	Carry Handle
30027-2 (black)	1/4"	A133640	200'			
A130560 (red)	3/8"	A133650	150'	6"	3000	
A 130360 (led)	1/2"	none	100'			
30018	1/4"	A133640	400'			
A249184	3/8"	A133650	300'	12"	3000	
A249184	1/2"	none	200'			
A130558-325	1/2"	A133690	325'	18"	3000	
A 100000-020	3/4"	none	200'	10	3000	

<sup>\*</sup> Reducers: A133640 - 1/2" x 1/4"

A133650 - 1/2" x 3/8"

A133690 - 3/4" x 1/2"

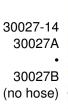




#### **CART FOR AUXILLIARY HOSE REEL**

Part No.	DESCRIPTION
A130555	Cart for 12" Wide Hose Reel
A130555-18	Cart for 18" Wide Hose Reel









### **AUXILIARY HOSE REELS WITH HOSE**

Part No.	Hose Size	Hose	Spool Width	Reel Used	Max PSI	Comment
30027-14	1/4"	150' TP	6"	30027-2	2750 (hose)	Carry Handle
30027A	3/8"	150' TP	6"	30027-2	3000 (reel)	Carry Handle
OB40027A	3/8"	150' TP	6"	30027-2	3000 (reel)	Hand Cart
20032-200A	3/8"	200' TP	12"	30018	3000 (reel)	Reel & Hose *
OB40028A	3/8"	200' TP	12"	A249184	3000 (reel)	Hand Cart
20028A	1/2"	150' TP	12"	30018	3000 (reel)	Reel & Hose

TP=Thermoplastic Outer Jacket

### **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 lower and securing the guide thus eliminating the need to enter the manhole.

Without Rope	With Rope	I.D.	Length	Rope Length
OBJ-263	J-2204	2"	36"	25'
A234937	A235006	3"	42.5"	20'
A234937	J-2203	3"	42.5"	25'
J-2206R	J-2206	4"	36"	25'



<sup>\*</sup> Also includes ball valve







#### **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"

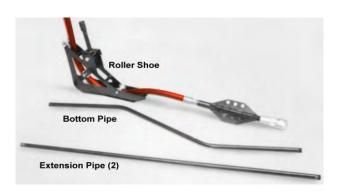


Part No.	Width	Length
J-2401	12"	38"

### **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





#### **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





#### MANHOLE GRAPPLE TONG

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

Part No.	Length
A234585	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



### **CATCH BASIN SPOON**

Part No.	Length
A220081	Spoon with 10' Handle





### **CATCH 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.	Handle Length
A220040	6 foot
A220050	8 foot
A220060	10 foot
A220070	12 foot
A220080	15 foot



### **CATCH BASIN SCRAPER**

High-visibility yellow fiberglass handle.

Part No.	Length
A220082	60"OAL









#### MANHOLF HOOKS

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Part No.	DESCRIPTION			
A221800	29" w/Perpendicular T-Handle			



### **HYDRANT WRENCH**

Part No.	DESCRIPTION			
A220330	Hydrant Wrench			



### 2.5"NST HYDRANT FILL HOSE

Part No.	DESCRIPTION		
A176150	2-1/2"ID x 25'		
A176154	2-1/2"ID x 50'		

### **FILL PIPE COUPLER**

Part No.	DESCRIPTION			
A140090	2"FNPT steel flange adapter			
A140080	2.5"NST brass swivel nut w/gskt			
A190830	Gasket only			



### **SAFETY CONES**

	_				
Part No.	Height	Color	Traffic Speed	Night Use	Comment
A225004	18"	Orange	≤ 40 mph	No	Plain (min. ht. for low speed traffic)
A225005	28"	Orange	≥ 45 mph	No	Plain (min. ht. for high speed traffic)
A225005-36	36"	Orange	≥ 45 mph	Yes	2 Reflective Stripes

NOTE: Usage specs are per Federal DOT regulations, Section 6F.63 as of Dec 2009.

