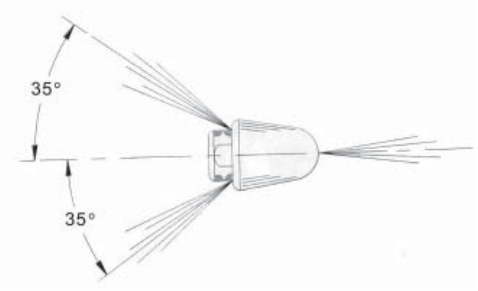
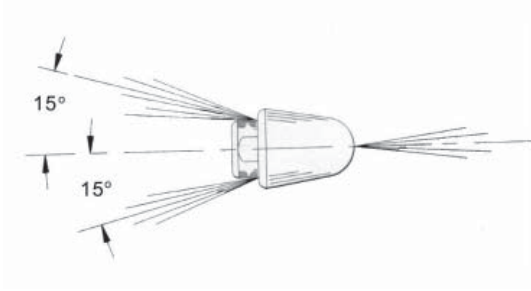
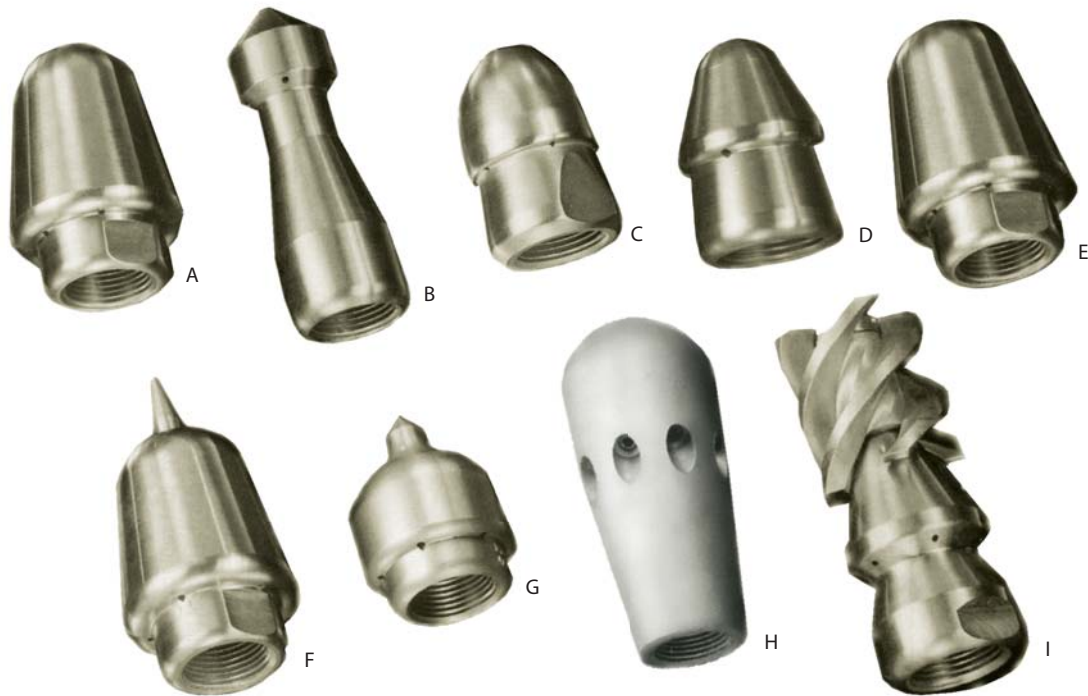


**SEWER JET NOZZLES**



**NOZZLE TIPS:**

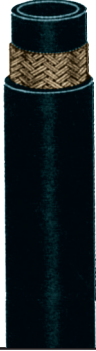
1. Lesser degree nozzle has a greater thrust of rocket power than higher degree nozzle.
2. Higher degree nozzle has more cleaning power than lesser degree nozzle.
3. A nozzle designed with a front orifice should be used in almost all sewer line cases.
4. There are some nozzles with 15 and 35 degree orifices. These are recommended when cleaning prior to televising.
5. Nozzles wear out! With wear, the hole size of the orifice increases which decreases pressure. This can create pump and engine problems. Keep new nozzles on hand and use the proper nozzle for each sewer cleaning procedure.





	Type	Degree	Forward Jet	Rear Jet	Part No. for 1" hose	Part No. for 3/4" hose
A	Standard nozzle	15	No	6	WJ-1	WJ-12
A	Standard nozzle	35	No	6	WJ-2	WJ-13
A	Standard nozzle	15	Yes	5	WJ-4	WJ-14
A	Standard nozzle	35	Yes	5	WJ-5	WJ-15
B	Penetrating	14	Yes	5	WJ-7	WJ-17
C	Bullet	22	Yes	5	BN-1	BN-2
D	Snub Nose	15	Yes	5	SN-1	SN-2
E	Mini Dual Degree	15 - 35	No	12	MD-1	MD-2
F	Lance	20	Yes (3)	6	LN-15	LN-16
G	Sidewinder	Front - 45° Rear 18°	Yes (2)	6	S-1	S-2
H	Grease	22	Yes	8	GN-1	GN-2
I	Rotating Blade Spinner	30	Yes (7)	6	RBS-1	RBS-2

SEWER JET NOZZLES

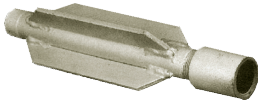


**SEWER JET HOSE**

	Part No.	Hose Size		Pressure		Bend Radius		Weight	
		ID	OD	Max Working (PSI)	Min Burst (PSI)	Kink	Min.	Pounds per 100 ft	Available Lengths
	<b>S612</b>	¾"	1.14"	2,500	6,250	2.0	4.0	29	500 and 600 ft.
	<b>S912</b>	¾"	1.15	3,000	7,500	2.0	4.0	30	500 and 600 ft.
	<b>S616</b>	1"	1.41	2,500	6,250	3.0	6.0	38	500 and 600 ft.
	<b>S916</b>	1"	1.47	3,000	7,500	3.0	8.0	46	500 and 600 ft.

**LEADER HOSE & HOSE GUIDE**


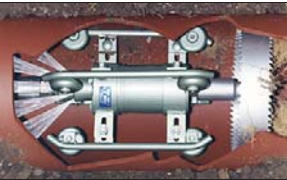
	Part No.	Description
	<b>LH-1</b>	1" x 10ft leader hose w/M&F fittings attached
	<b>LH-5</b>	1" x 25ft leader hose w/M&F fittings attached
	<b>LH-1A</b>	¾" x 10ft leader hose w/M&F fittings attached
	<b>LH-5A</b>	¾" x 25ft leader hose w/M&F fittings attached
	<b>BB-1</b>	3" x 36" hose guide with (2) rings attached (aka: Tiger Tail)

**EXTENSIONS**

	Type	Diameter	Length	Part No. for 1" hose	Part No. for ¾" hose
	Fin Style	2½"	14"	<b>FS-1</b>	<b>FS-2</b>
	Tubular Style	2½"	14"	<b>MY-1</b>	<b>MY-2</b>
	Football Style	4"	14"	<b>FO-1</b>	<b>FO-2</b>



SEWER JET HOSE, GUIDES & EXTENSIONS

**ROOT CUTTERS**

Type	Dia.	Length	Weight	Part No. Motor & Thruster only for 1" hose	Part No. Motor & Thruster only for 3/4" hose	
Mini Root and Grease Cutter	2 3/8"	9 1/2"	6	<b>WJ-49M1</b>	<b>WJ-49M34</b>	
Patriot 1 Root and Grease Cutter	3 3/4"	10 1/2"	13	<b>WJ-49P11</b>	<b>WJ-49P134</b>	
Patriot 2 Root and Grease Cutter	2 3/8"	9 1/2"	6	<b>WJ-49P21</b>	<b>WJ-49P234</b>	



Ask about kits for root cutters that include skids, roller assemblies, saws and hardware

**REPLACEMENT SAWS FOR ROOT CUTTERS**

Size	Part No. for Tapered Saw		Part No. for Flat Saw	
4"	<b>WJ-54</b>		<b>WJ-54F</b>	
6"	<b>WJ-56</b>		<b>WJ-56F</b>	
8"	<b>WJ-58</b>		<b>WJ-58F</b>	
10"	<b>WJ-510</b>		<b>WJ-510F</b>	
12"	<b>WJ-512</b>		<b>WJ-512F</b>	
15"	<b>WJ-515</b>		<b>WJ-515F</b>	
Standard root cutter hub	<b>WJ-49HU</b>		<b>WJ-49HU</b>	
Mini root cutter hub	<b>WJ-49MHU</b>		<b>WJ-49MHU</b>	


\*\*\* Hubs sold separately \*\*\*

**SEWER DYE**



Part No.	Description	
<b>FD-1</b>	Sewer dye tablets, 100 per bottle. Available in yellow green, red and blue	
<b>SD-1</b>	Powdered sewer dye, 1 lb. container. Available in yellow green, red and blue	
<b>SB-3</b>	3-minute single wick smoke bombs. Sold by the dozen	
<b>SB-3D</b>	3-minute double wick smoke bombs. Sold by the dozen	

ROOT CUTTERS & SEWER DYE




**SEWER RODS & TOOLS**

	Part No.	Description
	SR-536SP	5/16" x 36" super premium sewer rod
	SR-539SP	5/16" x 39" super premium sewer rod
	SR-131	Heavy duty root saw for 4" pipe / 5/16" rod
	SR-137	Square bar corkscrew for 4" pipe / 5/16" rod
	SR-148	Pick up tool for 5/16" sectional rod
	SR-158	Assembly wrench for 5/16" sewer rod
	SR-174B	18' lightweight hose guide with steel liner

**FLAT STEEL TAPE**

	Part No.	Description
	C539-100	3/4" x 1/8" x 100' flat steel tape with spearhead, ball rollerhead, handle and frame
	C539A-100	1" x 1/8" x 100' flat steel tape with spearhead, ball rollerhead, handle and frame
	B-10	1 3/4" rollerhead, split shaft for flat steel tape
	B-20	2 3/4" rollerhead, split shaft for flat steel tape

**MISCELLANEOUS WATER PRODUCTS**

	Part No.	Description
	HANDI 812	8' x 12" Handi Clam catch basin cleaner
	HANDI 1012	10' x 12" Handi Clam catch basin cleaner
	SI-5253	Heavy duty 24" manhole hook
	HW-1	Adjustable hydrant wrench (up to 1 5/8" pentagon nut)

SEWER RODS & TOOLS