

ANE RECAN Sewer Parts & Cleaning



2018 Catalog

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• ALWAYS WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT WHEN USING OR SERVICING ASP&C EQUIPMENT

ALWAYS FOLLOW INSTRUCTIONS
 AND INDUSTRY STANDARDS



W137 N5560 WILLIAMS PLACE MENOMONEE FALLS, WI 53051

WWW.AMERICANSEWERPARTS.COM

SALES@AMERICANSEWERPARTS.COM

PHONE: 800-666-0766 262-783-6666

FAX: 800-691-0031 262-783-4860

CURRENT PRICE LIST AVAILABLE ONLINE- WWW.AMERICANSEWERPARTS.COM

AMERICAN SEWER PARTS AND CLEANING COMPANY

LIMITED ONE (1) YEAR WARRANTY

American Sewer Parts and Cleaning will repair or replace to the original user any portion of a new American Sewer Parts and Cleaning product which proves defective due to defective materials or workmanship of American Sewer Parts and Cleaning for the period of one (1) year from the date of purchase. In the absence of suitable proof of purchase date, the effective date of this warranty will be based upon the date of manufacture.

WARRANTY EXCLUSIONS:

- 1. Defects or malfunctions resulting from failure to properly install, operate, or maintain the product.
- 2. Failures resulting from abuse, accident, or negligence.
- 3. Normal maintenance services and the parts used in conjunction with such service.
- 4. Products which are not installed in accordance with applicable codes, ordinances, and standard trade practices.
- 5. Product used for purposes other than for what it was designed and manufactured.
- 6. Damage caused by acts of GOD or conditions beyond the control of American Sewer Parts and Cleaning.

LIABILITY LIMITATION:

In no event shall American Sewer Parts and Cleaning be liable or responsible for consequential, incidental, or special damages resulting from or related in any manner to any American Sewer Parts and Cleaning product or parts thereof. Personal injury and / or property damage may result from improper installation. American Sewer Parts and Cleaning disclaims all liability, including liability under this warranty, for improper installation. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply. American Sewer Parts and Cleaning specifically disclaims the implied warranties of merchantability and fitness for a particular purpose after the termination of the warranty period set forth herein. No warranties or representations at any time made by any representatives of American Sewer Parts and Cleaning shall vary or expand the provision hereof. This warranty gives you specific legal rights and other rights which may vary from state to state.

LABOR / MISCELLANEOUS COSTS:

American Sewer Parts and Cleaning shall in no event be responsible or liable for the cost of field labor or other charges incurred by any customer in removing and/or re-affixing any American Sewer Parts and Cleaning product, part, or component thereof.

RETURNED OR REPLACED COMPONENTS:

Any item to be replaced under this Warranty must be returned to American Sewer Parts and Cleaning, or such other place as American Sewer Parts and Cleaning may designate, freight prepaid. American Sewer Parts and Cleaning Company will not be responsible for inbound and / or outbound freight charges.

TERMS AND CONDITIONS

GENERAL TERMS

- Terms are **NET 30 DAYS**.
- At 45 days account will be placed on credit hold until balance is paid. Terms revert to C.O.D.
- New accounts are C.O.D., VISA or MasterCard until credit is approved.
- Credit card purchases are limited to \$5,000 per occurrence / maximum \$7,500 annually.
- Minimum order is **\$50.00**.
- ASPC is not responsible for verbal order accuracy unless a hard copy of the order is received prior to processing via fax at 1-800-691-0031 or email at sales@americansewerparts.com.

FREIGHT TERMS

- Freight is prepaid and add / C.O.D. accounts are collect.
- Due to the large variations in shipping methods and daily surcharges, freight quotes cannot be provided. We ship via the most economical and beneficial method.
- If a delivery is attempted and undeliverable any additional charges will be charged to the recipient.
- Any additional charges for redirecting a delivery from an incorrect address will be charged to the recipient.
- Invoices are created the day after shipment. Tracking or Pro Number is indicated on the invoice.
- ASPC is not responsible for discrepancies or damages not reported within 7 days of delivery.

CLAIMS / RETURNS:

- Claim notification must be received within 7 working days from the date of delivery.
- Replacement merchandise will be billed at standard terms.
- Shipping claim credit will be issued upon receipt of payment from shipping company.
- If a shipment is damaged, note the damage while the driver is present and notify ASPC immediately. Keep all products and shipping containers. If possible, take photographs (digital preferred) and send to ASPC by mail or e-mail to <u>sales@americansewerparts.com</u>. ASPC will file a claim with the carrier. As soon as the shipping company settles the claim you will be notified by ASPC. Note: Carrier may pick up the damaged items and containers for examination.
- Products returned via freight collect will not be accepted.
- Ground freight is paid one way on warranty claims.
- ASPC does not issue call tags. Merchandise returned requires an RMA number to be issued prior to shipping to ASPC. The RMA number MUST appear on the outside of the box. Any box received without an RMA will be refused. RMA is valid for 15 days.
- Incorrectly ordered product will be charged ~15% restocking fee for stock items. Made to order product will be charged ~ 25% restocking fee. Special Order product is not returnable. Freight credit will not be issued for incorrect orders.
- Product returned due to ASPC error will be credited in full.

Customer Service Hours: 8:00 am to 4:30 pm Central Time Zone.



ASP&C DAMAGED AND LOSS SHIPMENT POLICIES

Damaged Shipments: (Including damage to an item(s) including loss due to damage to package.)

- 1. Damage to a package that you receive must be reported to ASP&C customer service with this completed form with in <u>48 hours of receiving</u> the package from the carrier.
- 2. You must take pictures of the damage item and or package. (E-mailed pictures are preferred)
- 3. You must keep the damaged items and packages until your claim has been approved.
- 4. You must include all information listed below to be considered for reimbursement.
- 5. All claims will be reviewed and approved or denied by the management of ASP&C within 48 hours of the claim being received by ASP&C.

Loss packages: (complete loss of one or more items.)

- 1. You must notify ASP&C as soon as you are made aware of the loss package. The tracking numbers are always included at the bottom of each invoice you receive.
- 2. You must complete all information listed below to be considered for reimbursement.
- 3. All lost packages must be reported to the shipper to allow them their allocated time frame to put a trace on the package to enable them an attempt to locate the package(s).
- 4. All claims will be reviewed and approved or denied by the management of ASP&C within 48 hours of the claim being received by ASP&C.

Required Information to process a parcel freight claim:

Claim type: (check one) Loss	_ Damage	Today's Date:	
Tracking # on package(s):			
Company that placed order:		C	ontact name:
Phone #:	_Fax #	E-mail:	
Package shipped to information:	<u>.</u>		
Company name:		Contact:	
Address:			_State:Zip:
Order Information:			
Order#:	Purchase order #	#:	Invoice #:
Pictures to follow: YesNo			
Describe damages to item or page	ckage and or losses:		

- Please email or fax all freight & small package claim information to ASP&C at claims@americansewerparts.com / 262-783-4860.
- Calling ASP&C to report freight & small package claim information is an acceptable means to begin the process OR to answer any questions.

Sewer Parts & Cleaning	FÆ	AX ORDER FORM
sales@americansewerparts.com W137 N5560 Williams Place Menomonee Falls, WI 53051 Phone: (262) 783-6666, (800) 666-0766 Fax: (262) 783-4860, (800) 691-0031	L	Date:
Bill To:		Shipping Method*: (Check One)
		 [] UPS Ground [] UPS Freight [] UPS Other:
Contact:		[] FedEx Ground (5 Day)
Contact's Phone Number:		 [] FedEx Saver (3 Day) [] FedEx 2nd Day (2 Day)
Customer P/O:		[] FedEx 2nd Day (2 Day) [] FedEx Standard (Next Afternoon)
Ship By Date:		[] FedEx Priority (Next Morning)
Preferred Receive Date: Confirm Fax: YES		[] Other:
(Check One)		*ASP&C's preferred carrier is UPS
Dort Number	Description	

Part Number	Description	Quantity	Price

Comments:



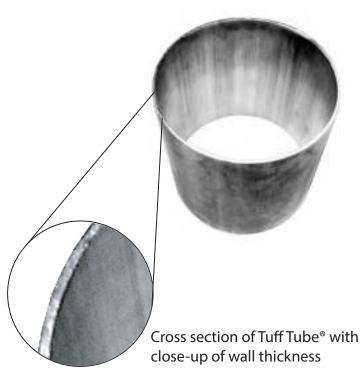
Tuff Tube[®] has been designed specifically for industries such as the industrial vacuum and sewer cleaning industry. The Tuff Tube vacuum tube is used to vacuum sand, pieces of pipe, grit, rocks, water, concrete, dirt and organics. This mixture is very abrasive to the interior of the vacuum tube, to say the least, not to mention the bumping and banging the tube receives on the steel manhole frame when entering a manhole.

In both the wear and dent resistance tests, the Tuff Tube performed significantly better than both the .072" and the .090" thick 3004-H22 irrigation tube. Tuff Tube showed a 346% increase in wear resistance compared to the .072" thick sample, and a 272% increase compared to the .090" thick sample. Naturally, the tests conducted here do not entirely capture what can and does happen in the field. It is however, fairly safe to state from the data above, that the Tuff Tube® would last about twice as long as a .072" or .090" thick irrigation product when used in a highly abrasive environment.

Tuff Tube seamless tubing has a wall thickness of .100", which is .010" thicker than any other 6" & 8" aluminum tube in the industrial sewer and vacuum market. Tuff Tube is also heat-treated. Thus, over-time, it becomes work-hardended, which in-turn prolongs it's career in the field.

It has a material hardness of C15 to C16 on a Rockwell scale compared to 3004.H22 irrigation tube, which tested at C10 to C12. which improved this product's wear rate by 41% over conventional aluminum vacuum tubing and a tensile strength of 35 KSI, which makes the Tuff Tube 28% more dent resistant over conventional vacuum tubing available and provides better ovality.

In keeping theintegrity of the tubing round, the Tuff Tube[®] helps ensure better air flow which equals better C. F. M. and total vacuum efficiency. A dent in a vacuum tube restricts air flow creating less C.F.M. and less vacuum efficiency.



Super Products[®] / Guzzler[®] Style Tuff Tubes w/ Bandlock[®] Style Fittings

Inta	ke Tu	bes



IIILAKE TUDES		
Part #	Size	
S8510-00285	6″ x 24″	
S8510-01147	6" x 36"	
S8510-00286	6″ x 48″	
S8510-01148	6″ x 60″	
S8510-01148A	6″ x 72″	
S8510-01371	6″ x 84″	
S8510-00287	6" x 96"	
S8510-00285A	6″ x 120″	
S8510-00288	8″ x 24″	
S8510-01373	8″ x 36″	
S8510-00289	8″ x 48″	
S8510-01374	8″ x 60″	
S8510-01374A	8″ x 72″	
S8510-1375	8″ x 84″	
\$8510-00290	8″ x 96″	
\$8510-01376	8″ x 120″	

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TUFF	-
1	

Male Catch Basin Tubes

Part #	Size
S8500-00454	6″ x 24″
S8500-00455	6" x 36"
S8510-00287D	6″ x 48″
S8510-00287B	6" x 60"
S8500-00455A	6″ x 72″
S8510-00287AA	6″ x 78″
S8510-00287A	6" x 96"
S8500-00453	8″ x 24″
S8500-00453AM	8″ x 30″
S8500-00453BM	8″ x 36″
S8500-00453D	8″ x 48″
S8500-00453E	8″ x 60″
S8500-00453F	8″ x 72″
S8500-00453J	8″ x 78″
S8500-00453GG	8″ x 84″
S8500-00453H	8″ x 96″



Bandlock[®] Style Clamp

Δ	uminum	
A	ummum	

Steel

Part #	Size	Part #
U42587	6" Clamp	Q1+//
U42588	8" Clamp	Q1+/.



Part #	Size
S8510-00287C	6″ x 72″
S8510-00287AB	6″ x 78″
S8500-00453DF	8" x 48"
S8500-00453EF	8″ x 60″
S8500-00453FF	8″ x 72″
S8500-00453JF	8″ x 78″
S8500-00453G	8″ x 84″
S8500-00453HF	8″ x 96″

Aquatech® Style Tubes w/ Riveted Steel Couplers







	Catch	Basin	Tubes
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'

Vactor[®] and Vac-Con[®] Style Tubes w/ Aluminum Flanges





Vactor[®] Style Quick Clamp w/Trimline Handle Part # Size

1 41 (#	SIZC
U16584	8" Quick Clamp



<u>Vac-Con[®] Style Quick Clamp</u> <u>w/ Trimline Handle</u>

Part #	Size
VC690-0073	6" Vac-Con Style Quick Clamp
V680-0015	8" Vac-Con Style Quick Clamp
U20543	10" Vac-Con Style Quick Clamp

Intake Tubes
w/ Welded Flanges

Part #	Size
UA34763L	6″ x 24″
UA34763H	6″ x 28″
UA34763D	6" x 36"
UA34763C	6″ x 48″
UA34763A	6″ x 60″
UA34763AA	6″ x 72″
UA34763K	6″ x 84″
UA34763E	6" x 90"
UA34763G	6″ x 96″
UA34763F	6″ x 120″
UA25637N	8″ x 12″
UA25637T	8″ x 18″
UA25637Q	8″ x 24″
UA25637K	8″ x 28″
UA25637B	8″ x 30″
UA25637C	8″ x 36″
UA25637M	8" x 48"
UA25637	8″ x 60″
UA25637J	8″ x 70″
UA25637D	8″ x 72″
UA25637R	8″ x 78″
UA25637U	8″ x 80″
UA25637P	8″ x 82″
UA25637E	8" x 84"
UA25637F	8″ x 90″
UA25637A	8″ x 96″
UA25637V	8″ x 102″
UA25637G	8″ x 120″

Trimline 6" and 8" Quick Clamps

The Trimline Quick Clamps used to secure Vactor® and Vac-Con® flange-style tubes, have been designed with a trimline handle in both 'U' and 'V' style clamps.

This feature enables the handle to hug the body of the clamp when it is drawn over center to tighten the clamp over the vacuum tube flanges.

The design greatly decreases the chances of the handle getting caught on clothing, equipment and or even manhole lids or stairs versus a standard style clamp handle, which sticks out from the clamp's outer profile.

The result is a safer and more efficient clamp for use in the field.

Vactor[®] and Vac-Con[®] Style Tubes w/ Aluminum Flanges

Catch Basin Tubes w/ Welded Flanges



w/ Welded Flanges			
Part #	Size		
UA34766	6" x 24"		
UA34766D	6" x 30"		
UA34766H	6″ x 36″		
UA34766C	6" x 48"		
UA34766J	6″ x 60″		
UA34766A	6″ x 72″		
UA34766B	6″ x 78″		
UA34766G	6" x 90"		
UA34766F	6" x 96"		
UA34766K	6″ x 120″		
UA25268Q	8″ x 24″		
UA25268A	8″ x 32″		
UA25268G	8″ x 36″		
UA25268F	8" x 42"		
UA25268H	8″ x 48″		
UA25268C	8″ x 60″		
UA25268I	8″ x 66″		
UA25268D	8″ x 72″		
UA25268	8″ x 78″		
UA25268M	8″ x 80″		
UA25268P	8″ x 82″		
UA25268B	8″ x 84″		
UA25268E	8″ x 90″		
UA25268J	8″ x 96″		
UA25268K	8" x 108"		
UA25268L	8" x 120"		

Vactor[®] Style Tubes w/ Riveted Steel Flanges

<u>Intake Tubes</u>



IIIake	TUDES
Part #	Size
U34763H	6″ x 28″
U34763D	6" x 36"
U34763C	6″ x 48″
U34763A	6″ x 60″
U34763AA	6″ x 72″
U34763E	6" x 90"
U34763B	6" x 96"
U34763F	6″ x 120″
U25637N	8″ x 12″
U25637K	8″ x 28″
U25637B	8″ x 30″
U25637C	8″ x 36″
U25637M	8″ x 48″
U25637	8″ x 60″
U25637J	8″ x 70″
U25637D	8″ x 72″
U25637P	8″ x 78″
U25637E	8" x 84"
U25637F	8″ x 90″
U25637A	8″ x 96″
U25637G	8″ x 120″



Pipe Flange w/ Drilled Rivet Holes

Part #	Size
U15338C or VC680-0314	6 1/4"Tube Flange
U40011 or VC680-0024	8" Pipe Flange



asin Tubes
Size
6″ x 18″
6" x 30"
6" x 36"
6" x 48"
6″ x 60″
6″ x 78″
6″ x 84″
6″ x 90″
6" x 96"
6″ x 120″
8″ x 32″
8″ x 36″
8″ x 42″
8″ x 48″
8″ x 60″
8″ x 72″
8″ x 78″

8" x 82"

8″ x 84″

8" x 90"

8″ x 96″

8" x 108"

8″ x 120″

U25268D

U25268B

U25268E

U25268J

U25268K

U25268L

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	Y	
	Y	

Hydro-Excavation Style Tubes

Welded Flange / Hydro Cuff End

Used on Vactor[®] and Vac-Con[®] Style Machines.

Part #	Size
UA34763KHE	6″ x 84″
UA34763EHE	6″ x 90″
UA25637WHE	8″ x 66″
UA25637DHE	8″ x 72″
UA25637RHE	8″ x 78″
UA25637EHE	8″ x 84″
UA25637AHE	8″ x 96″
UA34763AAHE-8	6" x 72" Tube w/ 8" Flange to 6" Aluminum Tube Reducer Fitting (See Below)



Riveted Female Aquatech[®]Coupler



Part #	Description
USLV6X8	6" HYDRO -EXCAVATION CUFF
USLV8X8	8" HYDRO -EXCAVATION CUFF

Hydro-Excavation Style Tubes and Accessories



I	
Part #	Size
S8500-00455AHE	6″ x 72″
S8500-00455BHE	б″ x 84″
S8500-00455FHE	6″ x 120″
S8510-01374AHE	8″ x 72″
S8510-00453GAHE	8″ x 84″



<u>Circular Operator Tube Style Handle</u> Used on all 6" and 8" Tubes for Vactor[®], Vac-Con[®], Super Products[®], Guzzler[®] and Aquatech[®] Tubes for easier handling.

Part #	Size
U63404 or VC711-6279 SP9400-00132	6″
U25262 or VC711-0172 SP9400-00133	8″

Tuff Tube Accessories





Aluminum Weld-on Serrated Suction Nozzle Crown

Part #	Size
UA34767 or VC810-3907	6" Aluminum
UA23788 or VC810-0222	8″ Aluminum



Steel Serrated Suction Nozzle Crown

Part #	Size
U34767 or GUZ1280042	6" Steel
U23788 or GUZ1280043	8″ Steel





Flange Gasket

Part #	Size
U16585	8″ Rubber

Constant of the second second

TRIPLE-X INSULATED DIG TUBE:

- 1. INSULATING CUFFS
- 2. INSULATING GAP
- 3. INSULATING HANDLE
- 4. VIBRATION REDUCTION

SIZE: 6"x72" 8"x72" 8"x6x72" PART #: UA34763XXX UA25637XXX UA34763XXX-8

DIG SAFE / DIG SMART / DIG ASPC!!!

American Sewer Parts and Cleaning, Inc. W137 N5560 Williams Place Menomonee Falls, WI 53051 (800) 666-0766 (262) 783-6666 Fax (800) 691-0031 sales@americansewerparts.com www.americansewerparts.com



Zip Tube[®] is an all-new hydro excavation suction/water erosion nozzle. It is a rugged, quality-engineered tool that can withstand the harsh environment that comes with task at-hand.

Zip Tube is constructed of .100 wall, 6" or 8" Tuff TubeTM with an external stainless steel water ring containing ten (6") or twelve (8") stainless steel replaceable jets that pulverize soil with water pressure. The soil is then removed by vacuum suction through the tube. Zip Tube is available with a Vactor[®] style 6" or 8" flange, Super Products[®] Bandlock[®], or Aquatech[®] connection options.

Features include an adjustable handle with a rubber bump stop tube inside the water ring. The bump stop protrudes forward to help safeguard the water ring jets against abrasion from rocks, debris and underground services. There is also a rubber safety tube that is attached to the exterior of the water ring that helps control the spray of water and eroded material that can splatter during the hydro excavation process.

PRODUCT SPECIFICATIONS

Weight: Length: Water connection: Handle adjustment: Replaceable Jets: Tube dimension: Connection options: 39 lbs (6") 45 lbs. (8") 71" 1" F.P.T. swivel 39" Height 10 (6") or 12 (8") 6" or 8" Tuff Tube w/.100 wall 6" or 8" Vactor flange 6" or 8" female Super Products Bandlock 6" or 8" female Aquatech

PART NUMBERS

ZIP-A-6"	- Tube w/ 6" female Aquatech connection	
ZIP-A	- Tube w/ 8" female Aquatech connection	
ZIP-F-6"	- Tube w/ 6" Vactor flange connection	
ZIP-F	- Tube w/ 8" Vactor flange connection	
ZIP-F-6"/8"	- Tube 6" w/8" Vactor flange connection	
ZIP-SP-6"	- Tube w/ 6" female Super Products Bandlock	
ZIP-SP	- Tube w/ 8" female Super Products Bandlock	
U40797L	- Replacement jet - Straight Angle	
U40797L-10	- Replacement jet - 10° Angle	



5" or 8" Vactor Flange, Aquatech, or Super Products Bandlock connection		
I″ F.P.T. female swivel water connection		
6″ or 8″ O.D. x .100 Tuff Tube		
Adjustable Handle		
Splatter safety tube		R.
		1000
	Rubber bump stop tube	
K. M.	Rubber burnp stop tube	
	Stainless steel water ring	

Aquatech[®] is a registered trademark of the Hi-Vac Corporation Bandlock[®] is a registered trademark of the Bandlock Corporation Guzzler [®] is a registered trademark of the Federal Signal Corporation Super Products[®] is a registered trademark of Specialized Industries LP. Vactor[®] is a registered trademark of the Federal Signal Corporation Vac-Con[®] is a registered trademark of the Holden Industries

12" Aluminum Intake Tube



Part #	Size
VE908-12	12" x 12"
VE908-24	12" x 24"
VE908-48	12" x 48"
VE908-72	12" x 72"
VE908-96	12" x 96"

All-aluminum tube, used for suction of debris on Vac-All[®] type machines. Utilizes riveted steel flanges on both ends. Made in the USA.

12" Catch Basin Tube



Part #	Size
VE920-20	12" x 20"
VE920-56	12″ x 56″
VE920-72	12" x 72"
VE920-80	12″ x 80″
VE920-92	12" x 92"
VE920-96	12" x 96"

All-aluminum tube, used for cleaning debris boxes on Vac-All[®] type machines. Utilizes a riveted steel flange on one end and a crown end on the other. Made in the USA.

12" Intake Clamp

Steel construction, for both 12" steel and 12" aluminum tubing equipped with 12" steel flanges. Used on Vac-All[®] type machines. Made in the USA.



Part # Size VE2557-12 12" Intake Clamp

8" Steel Intake Tube



All-steel tube with welded steel flanges on both ends. Used for suction of debris on Vactor[®] style machines. Made in the USA.

Part #	Size
U53186	8″ x 18″
U53186A	8″ x 36″
U53186B	8″ x 60″
U53186C	8″ x 96″
U53186-G	8" x 101"
U53186CD	8" x 102"
U53186E	8" x 107"
U53186D	8" x 120"

8" Steel Catch Basin Tube



Size
8" x 60"
8" x 96"
8″ x 78″

All-steel tube with welded steel flange on one end and a crown end on the other end. Used for cleaning debris boxes on Vactor® style machines. Made in the USA.

8" Steel Extension Tube



Part #	Size
U54101C	8" x 6"
U54101A	8" x 10"
U54101B	8″ x 12″
U54101E	8″ x 18″
U54101F	8" x 20"
U54101H	8" x 24"
U54101G	8″ x 28″
U54101K	8" x 30"
U54101N	8" x 36"
U54101Q	8" x 42"
U54101S	8″ x 46″
U54101T	8" x 48"
U54101W	8″ x 54″
U54101X	8″ x 60″
U54101L	8" x 120"

All-steel tube with welded steel flanges featured on each end. Used for tube extension on Vactor[®] style machines. Made in the USA.

12" Steel Intake Tube



All-steel tube with welded steel flanges on both ends. Used for suction of debris on Vac-All[®] style machines. Made in the USA.

12" Steel Catch Basin Tube

	Part #	Size
C	VE820-36	12" x 36"
	VE820-56	12" x 56"
En la constante de la constante	VE820-92	12" x 92"
	VE820-96	12" x 96"

All-steel tube with welded steel flange on one end and a crown end on the other end. Used for cleaning debris boxes on Vac-All[®] style machines. Made in the USA.

Aquatech[®] Style Fittings and Couplings

Aquatech[®] Riveted Style Steel Tube End with Gasket



Aquatech® style female tube end.Part #SizeAT171230A6" Female EndAT171240A8" Female End

Aquatech[®] Riveted Style Steel Tube End



Aquatech[®] style male tube end. Supplied with steel ring shown on following page.

Part #	Size
AT171280A	6" Male End
AT171290A	8" Male End

Aquatech[®] Style Steel Ring



Aquatech^{\circ} steel ring to be used with male tube end.

Part #	Size
AT171180	4" Steel Ring
AT152930	6" Steel Ring
AT171300	8" Steel Ring

Aquatech[®] Style O-Ring



Aquatech[®] coupling gasket.

Part #	Size
AT190770	4" O-Ring
AT190760	6" O-Ring
AT191080	8" O-Ring

Aquatech[®] Style Male Hose End



Aquatech[®] style male hose coupler. Includes the steel ring shown above.

Part #	Size
AT171160-HS	6" Male Hose Coupler
AT171290-HS	8" Male Hose Coupler

Aquatech[®] Style Reducer with Gasket



Aquatech[®] style female to male reducer.

Part #	Size
AT238213	8" Female to 6" Male
AT170220	6" Female to 4" Male

Aquatech[®] Style Female Hose End



Aquatech[®] style female hose end. Includes the Aquatech[®] style o-ring.

Part #	
AT171130-HS	
AT171240-HS	

Size 6" Female Hose Coupler 8" Female Hose Coupler

Band-Lok[®] Style Fittings and Couplings

Dart #

Aluminum Female Coupler



Female Band-Lok style coupler with gasket. Used on Super Products style vacuum tubes.

Part #	Size
S3000-00784-4	4" Female Coupler
S3000-00782A	6" Female Coupler
S3000-00784A	8" Female Coupler

Band-Lok Style Female Coupler Gasket



Band-Lok style gasket, which is placed on the inside of an aluminum female coupler for aluminum tubing. (Squareback)

Part #	Size
S3500-00003A	4" Coupler Gasket
S3500-00002A	6" Coupler Gasket
S3500-00001A	8" Coupler Gasket

Band-Lok style gasket, which is placed on the inside of a steel female coupler for steel tubing. (Roundback)

Part #	Size
S3500-00003S	4" Coupler Gasket
S3500-00002S	6" Coupler Gasket
S3500-00001S	8" Coupler Gasket

Aluminum Male Coupler



Male Band-Lok style coupler. Used on Super Products style vacuum tubes.

Part #	Size
S3000-00783-4	4" Male Coupler
S3000-00781	6" Male Coupler
S3000-00783	8" Male Coupler

70" Boom Elbow

STD. Boom Elbow
H.D. Boom Elbow
STD. Boom Elbow - w/ Mounting Blanks
H.D. Boom Elbow - w/ Mounting Blanks



Steel Female Hose End



Female Band-Lok style hose end with gasket.

ze
" Female Hose End

Steel Galvanized Band-Lok



 90° Band-Lok

Part #	Size
U53492	6" 90° Galvanized
U53488	8" 90° Galvanized



Steel Male Hose End

Male Band-Lok style hose end.

Part #	Size
U42583B	3" Male Hose End
U42583	4" Male Hose End
U42584	6" Male Hole End
U42585	8" Male Hose End

Steel Galvanized Band-Lok



45° Band-Lok

Size 6" 45° Galvanized 8" 45° Galvanized

Band-Lok Adapters

Part # S3000-01294 S3000-00929 S3000-00929B

Size 6" Male to 4" Female 8" Male to 6" Female 8" Female to 6" Male

Part #

U53494

U53490



Vactor[®] Style Fittings and Couplings

Pipe Flanges

Steel in construction, these circular flanges are used on Vactor[®] or Vac-Con[®] tubing applications. Made in the USA.

Part #	Size
U20735	4 1/8" Plain Pipe Flange
U14915	5 1/8" Plain Pipe Flange
U43413	6" Slotted Hole-Pipe Flange
U15338	6 1/8" Punched-Hole Pipe Flange
U15338C	6 1/8" Rivet Drilled-Hole Pipe Flange
U40011	8" Rivet Drilled-Hole Pipe Flange
U43414	8" Punched-Hole Pipe Flange
U10749A	8 1/8" Punched-Hole Pipe Flange
U10749B - SPA	8" Plain Pipe Flange
U10749A - SPS	8 1/8" Slotted Hole Pipe Flange



U43413

EZ Flange



Aluminum EZ Flange is a weld-on flange used on Vactor[®] and Vac-Con[®] tubing.

Part # U40011D U40011B U40011A Size 4" EZ Flange 6" EZ Flange 8" EZ Flange



8" Flange to 6" Tube Reducer Fitting

This specially-designed aluminum fitting clamps to an 8" flange and welds to a 6" aluminum tube on the opposite end. Maintains airflow efficiency by design.

Part # U40011C **Size** 8" Flange to 6" Tube Reducing Fitting

Rubber Flange Gasket



Vactor[®] and Vac-Con[®] style rubber flange gasket.

Part #	
U16585	

Size 8" Rubber Gasket

Hose End Weldment



Vactor[®] and Vac-Con[®] style hose end weldment. Steel construction.

Part #	Size
U53348	6" Hose End Weldment
U58795	8" Hose End Weldment
U58795H	8" Hose End Weldment - Heavy Duty
U58795EH	8" Hose End Weldment - Extra Heavy Duty

Transition Reducer



Vactor[®] and Vac-Con[®] style flanged transition reducer with slotted flanges.

Part #
U35096

Size 8" to 6" Transition

45° Steel Pipe Flange



Vactor[®] and Vac-Con[®] 45[°] steel dual flange.

Part #	Size
U53197	6" 45° Steel Flange
U53191	8" 45° Steel Flange

Reducer Plate



Vactor[®] and Vac-Con[®] tubing flanged reducing plate with slotted flanges. Steel construction.

Part #	Size
U34615	8" to 6" Reducing Plate

Transition Reducer



Vactor[®] and Vac-Con[®] tubing flanged reducer. Steel construction.

Part # U34614 Size 6" to 4" Reducer

90° Steel Pipe Flange



Vactor[®] and Vac-Con[®] 90[°] steel dual flange.

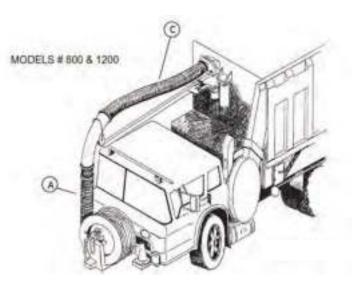
Part #	Size
U52985	6" 90° Steel Flange
U52977	8" 90° Steel Flange

Vactor[®] Style Cuffed Rubber Debris Hose

Vactor[®] Style Cuffed Rubber Debris Hose



Part #	Description	Size	Letter
U44155	Cuffed Debris Hose	6" x 120"	С
U42596	Cuffed Debris Hose	6" x 60"	А
U47392	Cuffed Debris Hose	6" x 64"	А
U43959	Cuffed Debris Hose	8" x 102"	С
U42597	Cuffed Debris Hose	8″ x 120″	С
U43958	Cuffed Debris Hose	8″ x 127″	В
U42595	Cuffed Debris Hose	8″ x 60″	А
U46564	Cuffed Debris Hose	8″ x 62″	D
U46564A	Heavy Duty Cuffed Debris Hose	8″ x 62″	E
U44675	Cuffed Debris Hose	8″ x 48″	D
U7040M	Cuffed Debris Hose	8" x 37"	Е
U70404	Cuffed Debris Hose	10" x 34"	
U46564J	Cuffed Debris Hose	8"x74"	
U46564N	Heavy Duty Cuffed Debris Hose	8"x74"	



Vactor[®] Style Cuffed Rubber Debris Hose with Installed and Clamped Hose End Weldments



Part #	Description	Size	Letter
U54428	Debris Hose w/ Hose Ends	8" x 66"	А
U54428B	Debris Hose w/ Hose Ends	8″ x 60″	А
U54428A	Debris Hose w/ Hose Ends	8″ x 62″	D

Compression Joint

The 10" Compression Joint is used on Vactor[®] style equipment.

		2
9		
		9

Part #	Size	Letter
U45716	10"	F

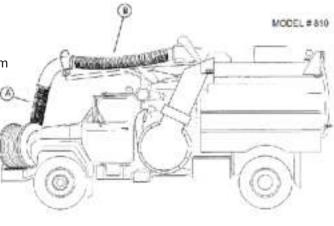
King Clamp

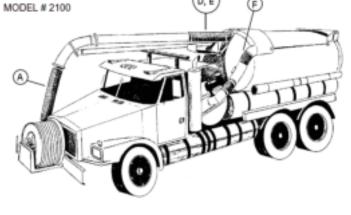


The King Clamp can be used on all vacuum machines with cuffed rubber debris hose to hold to steel weldments. The best clamp-to-hose contact circle in the industry.

Part # U42592 U42593 U42594

Size 4" King Clamp 6" King Clamp 8" King Clamp





Vactor[®] Style Cuffed Rubber Debris Hose

10" Vactor * Style Debris Suction Hose Rubber hose to be used on Vactor* style 2100 machine without cuffs.



Part #	Description	Size
U47394	Debris Suction Hose	10" x 10"
U47394F	Debris Suction Hose	10" x 16"
U47394G	Debris Suction Hose	10" x 25"
U47394Q	Debris Suction Hose	10" x 28"
U47394D	Debris Suction Hose	10" x 36"
U46394L	Debris Suction Hose	10" x 48"
U46449	Debris Suction Hose	10" x 66"
U47394E	Debris Suction Hose	10" x 78"
U47394-BULK	Bulk Debris Suction Hose	10" x Per Foot

Kanaflex[®] 180AR Hose

Used on Vactor[®] style machines, Kanaflex[®] is lighter duty than debris hose, but provides more flexibility.

Part #	Description	Size	Letter
U43321	180AR Kanaflex [®] Hose	6" x 120"	С
U52343	180AR Kanaflex [®] Hose	6″ x 25′	
U43320	180AR Kanaflex [®] Hose	6" x 60"	А
U43364	180AR Kanaflex [®] Hose	8" x 102"	С
U43308	180AR Kanaflex [®] Hose	8″ x 120″	С
U43365	180AR Kanaflex [®] Hose	8″ x 127″	В
U43309	180AR Kanaflex [®] Hose	8" x 40'	
U43319	180AR Kanaflex [®] Hose	8″ x 60″	А
U45804	180AR Kanaflex [®] Hose	8″ x 62″	A or D
U43363	180AR Kanaflex [®] Hose	8″ x 66″	

The following part numbers include hose end flanges installed and clamped.

U52763	180AR Kanaflex [®] Hose w/Ends	8″ x 66″	Ă
			~
U52764	180AR Kanaflex [®] Hose w/Ends		C
U52765	180AR Kanaflex [®] Hose w/Ends	8" x 127"	В

The following part numbers are for bulk hose.

U43322-LENGTH	4" Bulk (Per Foot) 25' Increments Only
U43323-LENGTH	6" Bulk (Per Foot) 25' Increments Only
U43716-LENGTH	8" Bulk (Per Foot) 25' Increments Only

The following part numbers are for hose used on Super Products[®] machines.

S3906-06000	180AR Kanaflex [®] Hose	8″ x 22′
S3906-06000B	180AR Kanaflex [®] Hose	8" X 24' 6"

diagrams on previous page.

Letters correspond with truck

Power Clamp



The Power Clamp is used to hold Kanaflex[®] hose onto steel hose ends.

Part #	Size
U43784	2" Power Clamp
U44215	2 1/2" Power Clamp
U70846	3" Power Clamp
U43389	4" Power Clamp
U43415	6" Power Clamp
U43388	8" Power Clamp
U45739	10" Power Clamp
U45606	12" Power Clamp

Aquatech[®] Style Cuffed Rubber Debris Hose



Heavy duty style debris hose used on Aquatech® style machines.

Part #	Size / Description
AT176620	8" x 19' 8" Heavy Duty Cuffed Debris Hose
AT176620-22	8" x 22' Heavy Duty Cuffed Debris Hose
AT176620-25	8" x 25' 8" Heavy Duty Cuffed Debris Hose
AT176630	8" x 8' Heavy Duty Cuffed Debris Hose

Vac-All[®] Style Cuffed Rubber Debris Hose



Heavy duty and light duty style collection/debris hose used on Vac-All® style machines.

Part #	Size / Description
V02390-0165B	12" x 100" Heavy Duty Cuffed Debris Hose
V02390-0165D	12" x 30" Heavy Duty Cuffed Debris Hose
V02390-165A	12" x 100" Smooth ID Cuffed Debris Hose
V02390-175A	12" x 100" Light Duty Cuffed Debris Hose

Vac-All[®] Style Swivel Ball Joint Assembly

The Vac-All[®] style swivel ball joint assembly is used to allow free rotation of intake debris hose on Vac-All[®] style machines. 12" in diameter, and manufactured to O.E.M. specifications. Constructed of chrome-plated steel.

Part #Size / DescriptionV680-0001Vac-All® Style Swivel Ball Joint Assembly

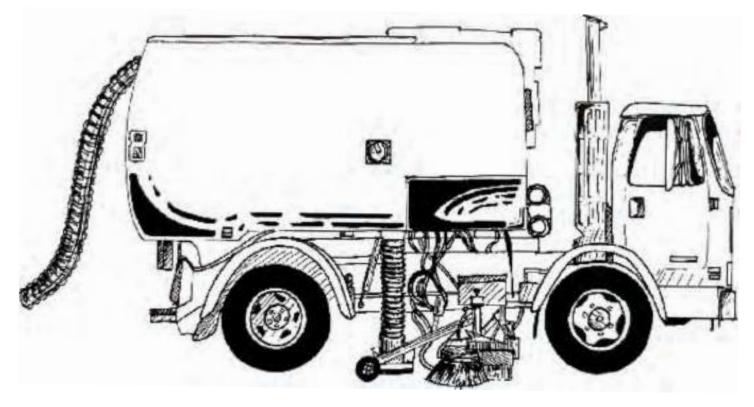


Elgin[®] Style Cuffed Rubber Debris Hose



Heavy duty style debris hose used on Elgin® style machines.

Part #	Size / Description
ES1011454	11" x 62" Heavy Duty Cuffed Suction Hose (Fits Whirlwind)
ES1020546	8" x 147" Heavy Duty Cuffed Wandering Hose (Fits Crosswind and Whirlwind
ES1032976	13" x 42" Heavy Duty Cuffed Suction Hose (Fits Crosswind)
ES1036256	14" x 30" Heavy Duty Cuffed Pressure Hose (Fits Crosswind)



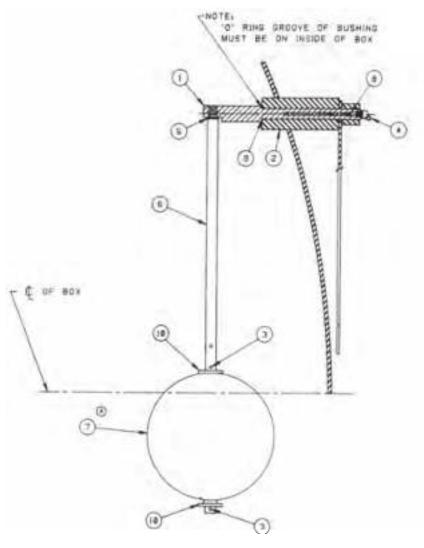
Clean Earth[®] Style Cuffed Rubber Debris Hose



Heavy duty style debris hose used on Clean Earth® style machines.

Part # CE32030029 **Size / Description** 9 1/4" x 60" Horizontal Boom Hose

Float Indicator Assembly



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ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
1	U37130	Shaft, Bronze Rod	1
1	U37131	Float Control Arm - Round Box	1
2	U37132	Bushing, Float Control	1
3	U16420-L	Pin, Roll 1/8" x 3/4" Steel	2
4	U41759	Fitting, Grease 1/4-28 45° OAL	1
5	U16366B	Washer, Lock 3/8"	1
6	U37133	Arm, Float 1/2" x 19"	1
7	U45113	Float Ball 6" Round 1/2" Bore Stainless ST	1
8	U16420-V	Pin, Roll 1/8 x 1 Steel	1
9	U41771	O Ring, Float Indicator	1
10	HLW-103	Washer, 1/2" SAE-AXEL Shim HLW	2

Float Balls

Part # S7300-01935	Description 6" stainless steel float ball used on Super Products [®] type machines as vacuum breaker in a vacuum debris tank. (Photo B)
U45113 or VC690-0745 or GU1320456	6" stainless steel float ball with 1/2" bore tube to connect onto a slide rod to monitor debris tank capacity used in the debris tank in Vactor [®] , Guzzler [®] and Vac-Con [®] type machines. (Photo A)
S3000-01395	8" stainless steel float ball used on Super Products [®] type machines as a vacuum breaker in the debris tank. (Photo B)
S3000-01406 or GU1320849	9" stainless steel float ball used on Super Products [®] and Guzzler [®] type machines as a vacuum breaker in the debris tank. (Photo B)
U44388 or VC690-1136	10" stainless steel float ball used on Vactor [®] and Vac-Con [®] type machines as a vacuum breaker in the debris tank. (Photo B)
U44388A or GU1320383	12" stainless steel float ball used on Super Products [®] and Guzzler [®] type machines as a vacuum breaker in the debris tank. (Photo B)
U44478 or VC690-0746	14" stainless steel float ball used on Vactor [®] and Vac-Con [®] type machines as a vacuum breaker in the debris tank. (Photo B)
Made in the USA.	

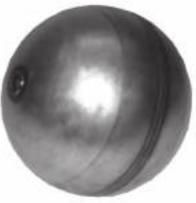
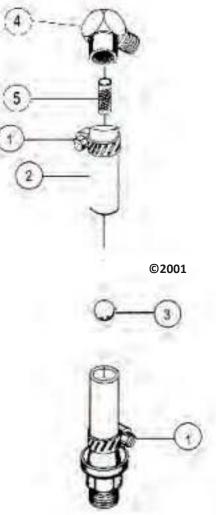


Photo A



26" and 45" Water Fill Sight Gauge Assemblies

Used on Vactor[®] and other sewer cleaners to monitor the water availability in the water tanks. 26" For Models 2100, 810, 800, 815, 1200 / 45" For Models 400, 810E



ITEM	#:	PART #:

DESCRIPTION

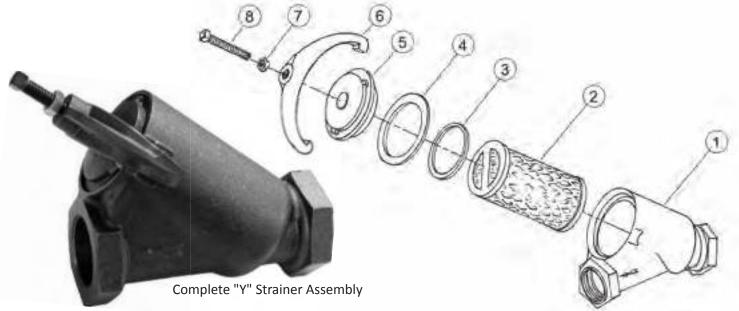
QUANTITY NEEDED

	U55742	26" Water Tank Fill Gauge Assembly	Complete
1	U43734	Clamp, Hose Water Gauge	2
2	U41458A	PVC, 3/8" ID Clear Tube	2′
3	U43061	Ball, Red Polyethylene	1
4	U16634	Elbow, 1/4-18 x 3/8 90° Barb	2
5	U58100	Screen, Water Tank Gauge	2
	U58101	45" Water Tank Fill Gauge Assembly	Complete
1	1140704	Clamp Hasa Water Caugo	2
_	U43734	Clamp, Hose Water Gauge	2
2	U43734 U41458A	PVC, 3/8" ID Clear Tube	2 3'
2 3		1,	_
-	U41458A	PVC, 3/8" ID Clear Tube	3'

Custom tube lengths not available

"Y" Pattern Strainers - 2" and 3"

This style "Y" filter strainer assembly has been used for many years on Vactor[®] style machines and others as well. The purpose of these 'Y" design filter strainers are to allow large volumes of water to pass through while filtering the sand, rust and other material from the water before it enters a cleaning machine's water pump.



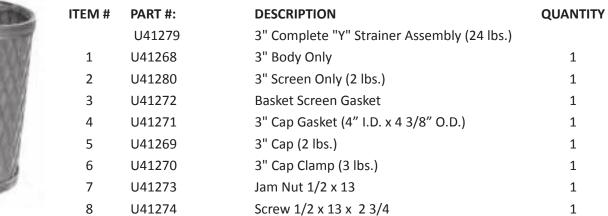


ITEM #	PART #:
	U45797
1	U46134
2	U45803
3	U46137
4	U46138
5	U46136
6	U46135
7	U46140
8	U41274

2" "Y" STRAINER

DESCRIPTION	QUANTITY
2" Complete "Y" Strainer Assembly (12 lbs.)	
2" Body Only	1
2" Screen Only (1 lb.)	1
Basket Screen Gasket	1
2" Cap Gasket	1
2" Cap (1 lb.)	1
2" Cap Clamp (2 lbs.)	1
Jam Nut 1/2 x 13	1
Screw 1/2 x 13 x 2 3/4	1





U41280

Vacuum Fans

A 38" diameter fan assembly is a replacement part for Vactor[®] machines. These fans are constructed to meet exact dimensional specification and each part in the fan assembly is coated with a protectant to ensure longer life.

The center steel hub assembly is welded. The welded areas are then machined to eliminate excess weld material to enhance the performance of the fan when it is spun-up to full running r.p.m. This operation also aids in optimizing the fan into a prebalanced state.

The center steel hub is then nickel-plated via electrolysis to 70 r.c., which protects it against rust and corrosion. This process also preserves the base steel against abrasive elements.

The fan blades are centrifugally cast, not just die cast. Each fan blade has a tensile strength of 35,900 lbs. compared to others at 27,900 lbs. and a yield strength of 29,400 lbs. compared to others at 20,400 lbs. To safeguard against damaging abrasion, there is a hard chrome coating on the blade face.

The fan blades are then pre-weighed so that all 16 fan blades in the fan assembly weigh the same, again bringing the fan closer to a pre-balanced state.

The front and rear cover of each fan is anodized. This electrochemical process protects aluminum parts from corrosion and oxidation.

After assembly, each fan is spin balanced to eliminate vibration stress, providing longer life for both the fan and the transmission. Each fan is supplied with a Taper Lock Bushing.

The fan assembly is also covered under a one-year warranty on materials and workmanship. Taper lock also sold separately.

Note: 85lbs. Fan only (Skid - 15lbs.) Made in the USA.



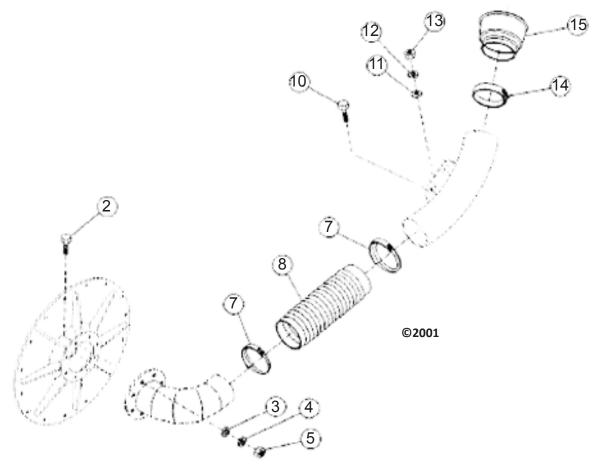
2100 Part # U25975 Taper Lock Part # U16056

2100+ (3.25"Shaft) Part # U25975-S

Taper Lock Part # U47801F-30

Fan Duct Installation

For Model 2100 Vactor® Type Machines



ITEM #:

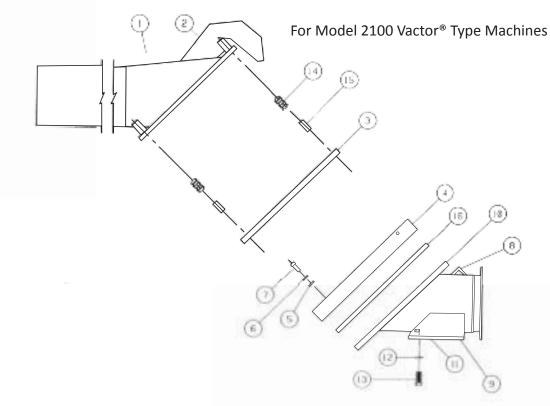
PART #:

DESCRIPTION

QUANTITY

2	U16343A	Bolt - Hex Head 3/8" - 16 NC x 1" Long 3/8"	8
3	U16365B	Flat Washer	8
4	U16367B	3/8" Lock Washer	8
5	U16360B	3/8" - 16 Hex Head Nut	8
7	U70406**	Clamp	2
8	U47394-Bulk	10" Kanaflex Style Hose 16" Long - No Cuff	1
10	U16355D	Screw, 5/8 - 11 x 1 3/4 Hex Head	4
11	U16365D	5/8" Flat Washer	4
12	U16367-D	5/8" Lock Washer Med Spring	4
13	U16360-D	5/8" - 11 NC Nut	4
14	U70406**	Clamp	1
15	U45716	10" Rubber Compression Inlet Boot	1

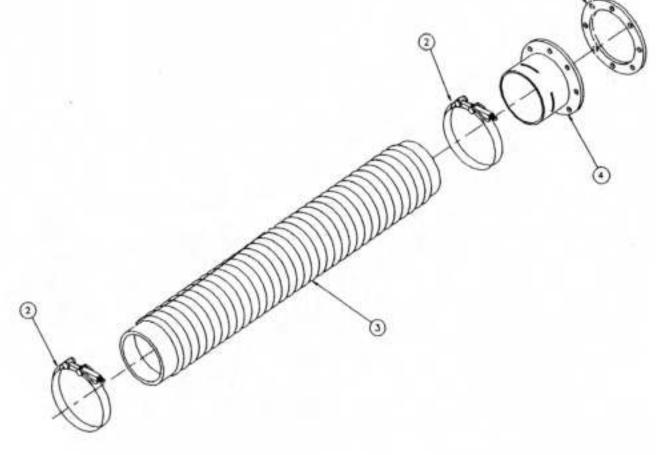
Vacuum Box Assembly (Vacuum Box Debris Inlet Assembly)



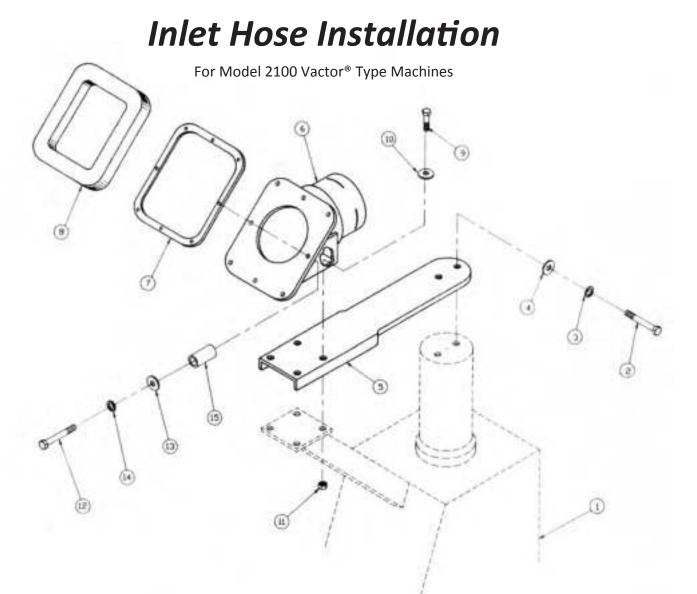
ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
1	U54596	Inlet Head Weldment	1
2	U29087	Centering Plate	1
3	U25656	Seal, Assembly Sponge Inlet	1
4	U23604	Weldment, Seal Frame	1
5	U16364	Washer, Flat 1/4" USS Zinc	4
6	U16366	Washer, Lock 1/4"	4
7	U16332E	Screw, 1/4-20 x 1 1/4 CAP GR 5	4
8	U27772	Dustbox, Guide Angle	1
9	U34953	Angle Anchor - Dustbox Inlet	2
10	U34961**	Inlet Assembly	1
11	U16360E	Nut, Hex 3/4-10 Zinc Plated	4
12	U16367E	Washer, Lock 3/4" Hi Collar	4
13	U16370B	Screw, 3/4-10 x 1 3/4 CAP	4
14	U16437-D	Spring, 3/4" OD x 2" Long	4
15	U23771	Pin, Steel .75 DIA x 1.75 Long	4
16	U54056	Gasket - Debris Inlet Rubber	1
17	U59450	Head Extension Weldment	1

Inlet Hose Installation

For Model 2100 Vactor[®] Type Machines

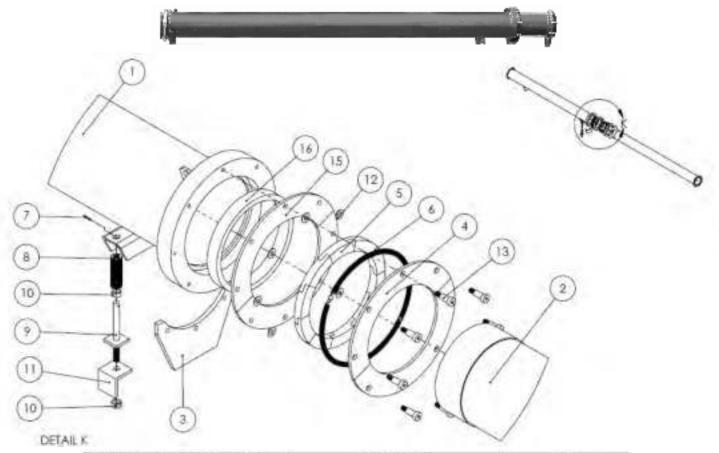


ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
2	U42594	Clamp, King 8"	2
3	U46564	8" x 62" Cuffed Debris Hose	1
4	U58795	8" Flange Weldment Assembly	1
5	U16585	8" Flange Gasket	1



ITEM #:	PART #:	DESCRIPTION	QUANTITY
			NEEDED
2	U43048	Screw, 7/8-9NC x 1 3/4 Hex Head Cap	2
3	U16367F	Washer, Lock 7/8" Zinc Plated	2
4	U16364F	Washer, Flat 7/8" SAE Zinc	2
5	U62065	Anchor Plate	1
6	U62222**	Inlet Weldment	1
7	U62232	Frame, Seal Holder	1
8	U62987**	Inlet Seal	1
9	U42392	Screw, 1/2-13 x 1 1/4 Hex Head Cap	4
10	U16365C	Washer, 1/2" Flat USS	4
11	U20121E	Nut, Nylok 1/2-13 Hex Zinc	4
12	U16339C	Screw, 5/16-18 NC x 1 1/4 Plated	8
13	U16365A	Washer, Flat 5/16"	8
14	U16367A	Washer, Lock 5/16"	8
15	U62392	Collar, Tube 90°x 90°	8

TELESCOPING TUBE ASSEMBLY U62034



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	U62033	OUTER TUBE WELDMENT	1
2	U62031	INNER TUBE WELDMENT	1
з	U58925	FRONT PLATE SUPPORT	1
4	U59827	RETAINER SEAL	2
5	U59826	AIR SEAL SEGMENT	10
6	U44581	14.5" SPRING	
7	U16420	PIN, ROLL 1/8" X 3/4" STEEL	2
8	U44645	SPRING DIE- HEAVY LOAD SPRING	2
9	U59832	SPRING KEEPER ASSEMBLY	2
10	U16359D	NUT, HEX 1/2-13" NC	4
11	U59828	MOUNTING ANGLE	2
12	U40683	WASHER, FLAT 1/8" X 3/4" SS	8
13	U44580	BOLT, SHOULDER 1/2"-13 X 1"	8
14	U58924	REAR SUPPORT PLATE	1
15	U59825	RETAINER, SEAL (SM HOLE)	2
16	U62029	BUSHING, OUTER-INNER TUBE WELDMENT	1

Worm Gear Rotator Assembly

This worm gear rotator assembly is the essential drive unit to activate the slewing bearing ring, which activates the boom turret on Vac-Con[®] combo trucks. Precision manufactured to meet the demands of the boom turret and has been perfected to be an exact replacement.

Part #DescriptionVC644-0132Worm Gear Rotator Assembly



Slewing Bearing Ring Worm Gear

Weight

54 lbs.

This slewing bearing gear is manufactured to meet the demands of the boom turret on Vac-Con[®] manufactured combo trucks. Exact replacement.

Part #DescriptionWeightVC644-0131Slewing Bearing Ring Worm Gear59 lbs.



Rotating Front Hose Reel Bearing

This front hose reel bearing fits Vactor[®] style 2100 & 2100 plus sewer cleaning combo trucks and is precision manufactured to meet the everyday demands of this application. This product is an exact replacement part.

Part # U45548H Ro

Description Rotating Front Hose Reel Bearing **Weight** 60 lbs.



Stop Block Tooth

Stop block tooth components have been precision manufactured to meet the application demands of restricting a Vactor[®] machine's front hose reel from rotating.

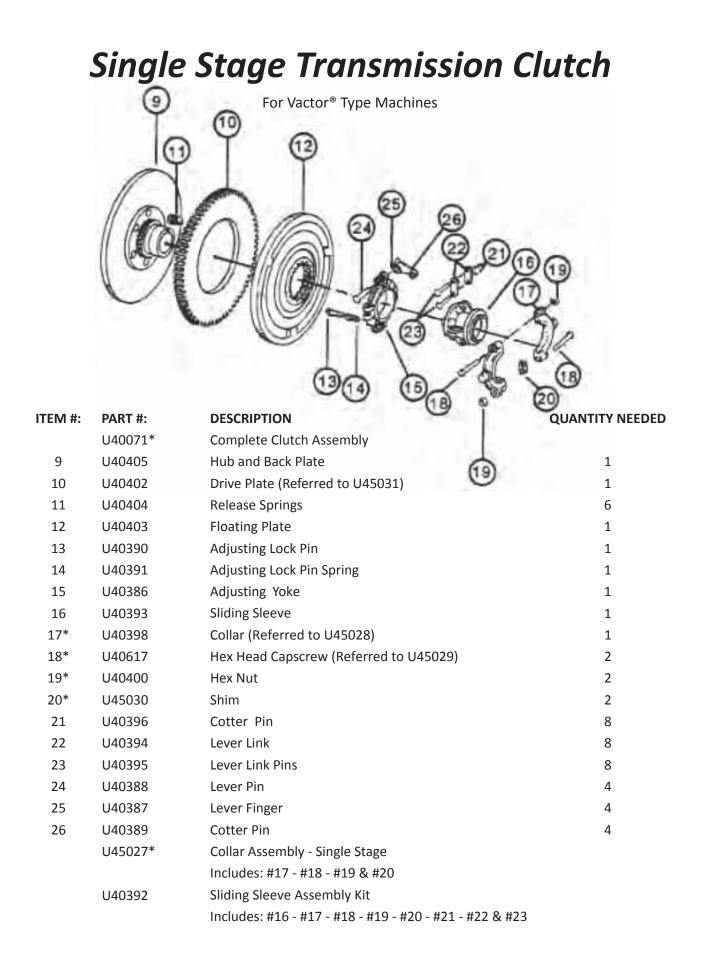
Part # U61297 U61297D

Description Stop Block Tooth Stop Block Tooth

Attachment Hole

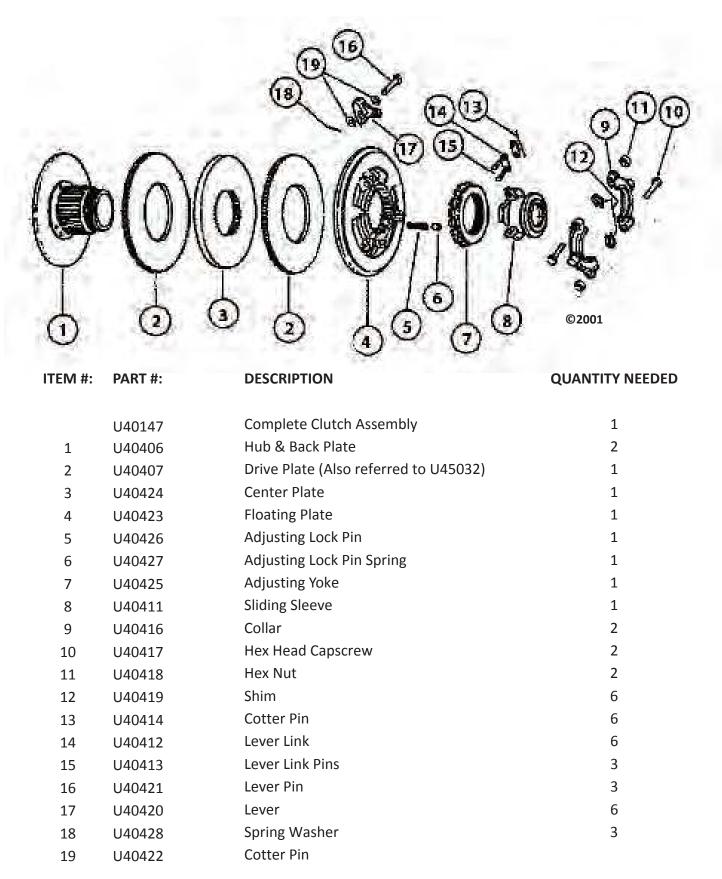
Center Offset





Dual Stage Transmission Clutch

For Vactor[®] Type Machines



Single Stage Transmission with #3 Bell Housing - New Style

(FOR FORD AND CUMMINS DIESEL AUXILIARY ENGINES W/TRANSMISSION SERIAL NUMBERS OF 168156 AND HIGHER) For Vactor[®] Type Machines Part Number U45374A

*Note: As of September 1988, Cotta[®] Transmission has made a manufacturing change to all single stage transmissions with serial numbers 168156 and higher. Cotta[®] now uses a newer style of output shaft, output bearing, transmission case and output housing. This change makes parts manufactured prior to September 1988 non-interchangeable with the newer style transmission parts (serial number 168156 and higher). When ordering Cotta[®] transmission parts, please refer to the appropriate pages in this catalog by using the model and serial numbers of the transmission you are buying replacement parts for. These numbers are located on your transmission's identification tag.

Single Stage Transmission with #3 Bell Housing - New Style

(FOR FORD AND CUMMINS DIESEL AUXILIARY ENGINES W/TRANSMISSION SERIAL NUMBERS OF 168156 AND HIGHER)

Part Number U45374A

ITEM #:	PART #:	DESCRIPTION	QUANTITY
1	U40322	Clutch Release Shaft	1
2	U41907	Woodruff Keys	2
3	U40320	Fork (Includes 2 bolts & 2 lock washers)	1
4	U40802	Pilot Bearing for Ford & Cummins Diesel	1
6	U40319	Drive Ring	1
7	U43554	#3 Bell Housing	1
8	U40266	Cover, Bell Housing - Single Stage	1
9	U40298	Hex head Screw	2
10	U40284	Lock Washer	2
11	U42402	Zerk Fitting (Same as U40295)	3
12	U40283	Half Nut	1
13	U40285	Lock Washer	1
14	U40267	Grease Hose	1
15	U40281	Hex head Cap Screw	10
16	U45566	Lock Washer	10
17	U40273	Gasket for Bell Housing Case	1
18	U45565	Case	1
19	U40304	Breather	1
20	U40292	Reducer	1
21	U40294	Pipe Plug Magnetic	1
22	U40293	Pipe Plug	1
23	U40317	Nut	1
24	U40318	Washer	1
25	U40321	Кеу	1
26	U40278	Input Shaft	1
27	U40302	Oil Seal - Input Shaft	1
28	U40300	Snap Ring - Input Shaft	2
29	U40301	Snap Ring - Input Bearing	1
30	U40290	Bearing - Input Shaft	2
31	U40276	Gear - Input (45 Tooth)	1
32	U40297	Woodruff Key	1

Single Stage Transmission with #3 Bell Housing - New Style

(FOR FORD AND CUMMINS DIESEL AUXILIARY ENGINES W/TRANSMISSION SERIAL NUMBERS OF 168156 AND HIGHER)

Part Number U45374A

ITEM #:	PART #:	DESCRIPTION	QUANTITY
33	U40269	Spacer - Input Shaft	1
34	U45570	Cone Bearing - Bell Housing	1
35	U45571	Bearing Cup - Bell Housing	1
36	U45572	Output Shaft Snap Ring - Bell Housing	1
37	U45568	Cup Bearing - Fan	1
38	U45569	Cone Bearing - Fan	1
39	U40296	Woodruff Key	2
40	U40275	Gear - Output Shaft (32 Tooth)	1
41	U45564	Output Shaft	1
42	U45563	Output Housing	1
43	U45574	.020 Shim	1
44	U45575	.007 Shim	3
45	U45576	.005 Shim	3
46	U45573	Oil Seal Output Shaft	1

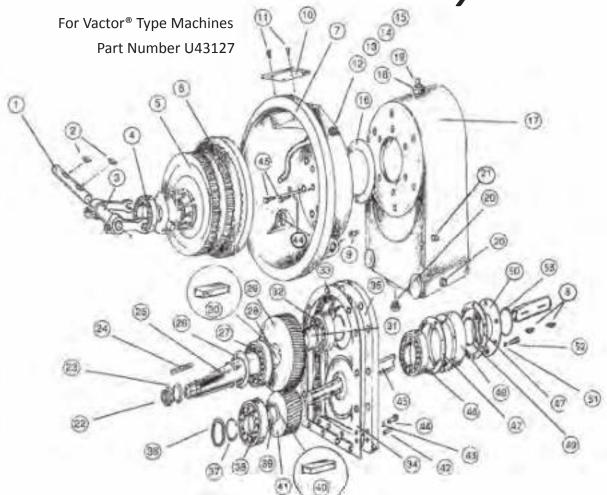
Single Stage Transmission Clutch Rebuild Kits and Bell Housing Assemblies

For Vactor[®] Type Machines

PART #:	DESCRIPTION CLUTCH KIT ASSEMBLIES
U40411	Sliding Sleeve
U40416	Collar
U40417	Hex head Capscrew
U40418	Hex Nut
U40419	Shim
U40414	Cover Pin
U40412	Lever Link
U40413	Lever Link Pins
U40420	Lever
	COLLAR ASSEMBLY

Kit #: U40415		COLLAR ASSEMBLY
Contains:	U40416	Collar
	U40417	Hex Head Capscrew
	U40418	Hex Nut
	U40419	Shim

Dual Stage Transmission with Clutch Assembly



ITEM #	PART #:	DESCRIPTION	QUANTITY
	U43127	Transmission Complete with Clutch	1
	U43127R	Transmission Complete without Clutch	1
1	U29156	Clutch Release Shaft	1
2	U41907	Woodruff Keys	2
3	U29154	Fork (Includes 2 bolts & 2 Lock washers)	1
4	U40802	Pilot Bearing for Ford 429 & Cummins 6BTA5.9	1
4	U40291	Pilot Bearing for Detroit 6V-53	1
	Dimensions	diameter (2.442 in.) x width (.934 in.) x bore (1.178 in.)	
4	U40328	Pilot Bearing for Detroit 6V-53	1
	Dimensions	diameter (2.442 in.) x width (.630 in.) x bore (1.178 in.)	
		Both Size Bearings were used in the Detroit 6V-35	
		Identify the bearing sizes to ensure proper fit	
5	U40147	Complete Clutch Assembly	1
6	U29153	Drive Ring	1
7	U29129	SAE #2 Bell Housing	1
8	U40296	Woodruff Keys	2

Dual Stage Transmission with Clutch Assembly

ITEM #	PART #:	DESCRIPTION	QUANTITY
9	U42401	Grease Fitting	2
10	U29119	Bell Housing Hand Hole Cover	1
11	U42396	Button Head Screw	2
12	U42402	Grease Fitting	1
13	U40283	Half Nut	1
14	U40285	Lock Washer	1
15	U42397	Grease Hose	1
16	U29125	Input Gasket Housing	1
17	U29131	Transmission Case	1
18	U40304	Breather	1
19	U40292	Reducer Bushing	1
20	U40294	Pipe Plug - Magnetic	3
21	U42395	Pipe Plug	2
22	U42375	Nut	1
23	U42376	Washer	1
24	U40321	Key - Clutch	1
25	U29127	Input Shaft	1
26	U29150	Oil Seal - Input Shaft	1
27	U29138	Bearing - Input Shaft (Bell Housing Side)	1
28	U29120	Spacer - Input Shaft (Bell Housing Side)	1
29	U29123	Input Gear	1
30	U29118	Кеу	1
31	U29121	Spacer - Input Shaft	1
32	U29137	Bearing - Input Shaft (Cover Side)	1
33	U40299	Snap Ring - Input Shaft	1
34	U29130	Gasket - Case Cover	1
35	U29132	Cover	1
36	U42379	Wave Spring Washer	1
37	U29148	Snap Ring - External Output Shaft	2
38	U29139	Bearing Output Shaft (Bell Housing Side)	1
39	U29122	Spacer Output Shaft (Bell Housing Side)	1
40	U29117	Кеу	1
41	U29124	Output Gear	1
42	U46435	Dowel Pin 5/8" (Same as 29141)	2
43	U29136	Lock Washer	29
44	U42394	Cap Screw	29
45	U40264	Output Shaft	1
46	U29140	Bearing Output Shaft (Cover Side)	1
47	U29126	Gasket Output Bearing Housing	2
48	U42400	Output Bearing Housing	1
49	U29146	Snap Ring - External	1
50	U42399	Outout Oil Seal Housing	1

Dual Stage Transmission with Clutch Assembly

Part Number U43127

ITEM #	PART #:	DESCRIPTION	QUANTITY
51	U29135	Lock Washer	6
52	U42393	Hex head Cap Screw	6
53	U29149	Oil Seal - Output Shaft	1
Kit #: U43127B		Dual Stage Clutch Assembly Kit	
Contains:	U16559B	Woodruff Key	2
	U29153	Dual Stage Drive Ring	1
	U29154	Throwout Fork	1
	U29156	Clutch Release Shaft	1
	U40147	Dual Stage Clutch Complete	1
	U42375	Shaft Nut	1
	U42376	Lock Washer	1
Kit #: U43127D		Rebuild Kit for U43127 (Dual Stage Transmission)	
Contains:	U16559B	Woodruff Key	3
	U29125	Unput Housing Gasket	1
	U29126	Output Housing Gasket	2
	U29130	Case Cover Gasket	1
	U29137	Front Input Shaft Bearing	1
	U29138	Rear Input Shaft Bearing	1
	U29139	Front Output Shaft Bearing	1
	U29140	Rear Output Shaft Bearing	1
	U29146	Snap Ring External Beveled	1
	U29148	Snap Ring External Beveled	1
	U29149	Oil Seal - Dual Output Shaft	1
	U29150	Oil Seal - Dual Input Shaft	1
	U29153	Dual Stage Drive Ring	1
	U40147	Dual Stage Transmission Clutch Complete	1
	U40299	Snap Ring - Old Output Shaft	1
	U40802	Pilot Bearing for Ford & Cummins	1
	U42379	Wavey Washer	1
	U42397	15" Grease Hose	1
	U29146	Snap Ring External Beveled (Same As U43129)	1

0-3000 PSI Pressure Gauge

This pressure gauge has been widely used on both Vac-Con[®] and Vactor[®] type sewer cleaning trucks. It is glycerin filled to assure steady needle movement while sewer cleaning functions are performed. The gauge has a 1/4" bottom mount and the dial needle measures from 0-3000 PSI. Vac-Con[®] part number VC665-0005.

Part # Description Weight U20971 0-3000 PSI Water Pressure Gauge 1 lb.

Front Panel Mount Gauge

This front panel mount gauge comes in 0-4000 PSI or 0-5000 PSI and is glycerin filled to dampen vibration. It has a rear mount $1/4^{\prime\prime}$ connection and is widely used on Super Products® machines and many others.

Part # Description Weight S6000-00260 0-4000 PSI Front Panel Mount Gauge 0.5 lbs. S6000-01130 0-5000 PSI Front Panel Mount Gauge 0.5 lbs. S6000-01130F 0-5000 PSI Front Panel Flanged Mount Gauge 0.5 lbs.

0-600 PSI Pressure Gauge

This gauge is 1/4'' bottom mounted and glycerin filled to dampen vibration. Needle indicates 0-600 PSI of hydraulic pressure. Used on Vactor® type equipment.

Part # U40799

Description 0-600 PSI Pressure Gauge Weight 1 lb.

Weight 0.6 lb.



0-160 PSI Pressure Gauge

This air pressure tensioning gauge is used on Super Products[®] type combo trucks. The needle indicates 0-160 PSI air pressure. Rear mounted by a 1/4" connection.

Part # Description S6000-00410 0-160 PSI Pressure Gauge



0-30" Vacuum Gauge

This 0-30" vacuum gauge is used on Vactor type vacuum and combo trucks. It has a rear mount 1/4" connection.

Part # U42645

Description Vacuum Gauge Weight 1 lb.





Front Panel Mount Vacuum Pressure Gauge

This glycerin filled front panel mount vacuum gauge is used on Super Products[®] vacuum and combo trucks. It measures 0-30" of vacuum, and has a rear mount 1/4" connection.

Part # S6000-00261

Description Front Panel Mount Vacuum Gauge **Weight** 0.7 lbs



Universal Bottom Mount Pressure Gauge

These UG-B series gauges are quality glycerin bottom mount 1/4" connection gauges. They are available in 1000 PSI increments from 2000 PSI to 5000 PSI. These gauges are widely-used on many types of sewer cleaning equipment.

Part #	Description	Weight
UG-B 2000	2000 PSI Bottom Mount Pressure Gauge	0.5 lbs.
UG-B 3000	3000 PSI Bottom Mount Pressure Gauge	0.5 lbs.
UG-B 4000	4000 PSI Bottom Mount Pressure Gauge	0.5 lbs.
UG-B 5000	5000 PSI Bottom Mount Pressure Gauge	0.5 lbs.



Universal Front Panel Mount Pressure Gauge

These UG-P series gauges are quality glycerin front panel mount 1/4" connection gauges. They are available in 1000 PSI increments from 2000 PSI to 5000 PSI. These gauges are widely-used on many types of sewer cleaning equipment.

Part #	Description	Weight
UG-P 2000	2000 PSI Front Panel Mount Pressure Gauge	0.5 lbs.
UG-P 3000	3000 PSI Front Panel Mount Pressure Gauge	0.5 lbs.
UG-P 4000	4000 PSI Front Panel Mount Pressure Gauge	0.5 lbs.
UG-P 5000	5000 PSI Front Panel Mount Pressure Gauge	0.5 lbs.



Water Level Gauge

This gauge has been used by Super Products[®] over the years to show water tank levels. The gauge showcases 0-100" measurement and has a 1/4" bottom mount.

Part # S6000-00711

Description Water Level Gauge Weight 1 lb.



"D" Style Rear Door Gasket

"D" gasket is manufactured to exacting specifications to fit Vactor type combo trucks. Available in 13 lengths and engineered to be just a bit softer than the original OEM door gasket. This makes a better seal, especially in temperatures below 40 degrees; when harder rubber gaskets can't easily compress, causing leakage.

PART #:	DESCRIPTION	WEIGHT
U35594N	40" "D" Style Door Gasket	5 lbs.
U35594C	64" "D" Style Door Gasket	8 lbs.
U35594A	70" "D" Style Door Gasket	9 lbs.
U35594B	88" "D" Style Door Gasket	11 lbs
U35594K	91" "D" Style Door Gasket	11 lbs.
U35594O	168" "D" Style Door Gasket	22 lbs.
U35594M	196" "D" Style Door Gasket	25 lbs.
U35594G	230" "D" Style Door Gasket	29 lbs.
U35594	255" "D" Style Door Gasket	30 lbs.
U35594L	258" "D" Style Door Gasket	33 lbs.
U35594F	325" "D" Style Door Gasket	39 lbs.
U35594H	360" "D" Style Door Gasket	46 lbs.
U35594I	384" "D" Style Door Gasket	47 lbs.



Tail Gate Door Gasket

Two-hole gasket is manufactured to exacting specifications to fit Vac-Con[®] type combo trucks. It is available in a 278" length and is engineered to be just a bit softer than the original OEM door gasket. This makes a better seal, especially in temperatures below 40 degrees; when harder rubber gaskets can't easily compress, causing leakage.

PART #:	DESCRIPTION	WEIGHT
VC690-1179	278" Tail Gate Door Gasket	36 lbs.



Debris Tank Inlet and Outlet Seals

These seals were engineered by to withstand harsh environments where ice, sand and other abrasive materials, cause premature seal failure and air leakage in OEM seals due to their gluedtogether construction. These seals are molded, one piece construction, using a soft-yet-durable rubber compound which prevents tearing and premature seal damage. These seals have been fully tested in Wisconsin's harsh winter months with great performance results. Used on Vac-Con[®] style vacuum trucks.



PART #:	DESCRIPTION	WEIGHT
VC690-0847	Debris Tank Outlet Seal (2 Required)	2 lbs.
VC690-0848	Debris Tank Inlet Seal	3 lbs.

VC690-0847

F.E. Myers[®] Pressure Regulator

F.E. Myers pressure regulators have been one of the industry leaders for many years. Regulator comes equipped with three $1 \frac{1}{4}$ ports. $21 \frac{3}{4}$ tall x 6 $\frac{7}{8}$ wide.

PART #:	DESCRIPTION	WEIGHT
FE15696C2	Regulator - 10-60 GPM @ 1200 PSI	35 lbs.
FE15696C5	Regulator - 25-80 GPM @ 2000 PSI	41 lbs.



Pressure Regulator Plunger Cups

Keep your F.E. Myers pressure regulator operating at peak operating pressure. If regulator pressure begins to drop off, chances are the plunger caps need to be replaced.

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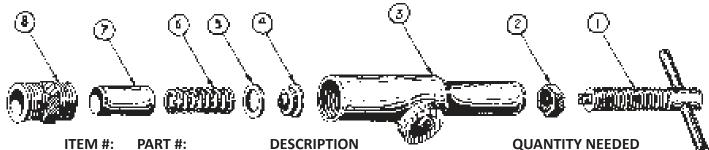
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PART #: DESCRIPTION FE13046A14 FE13046A11

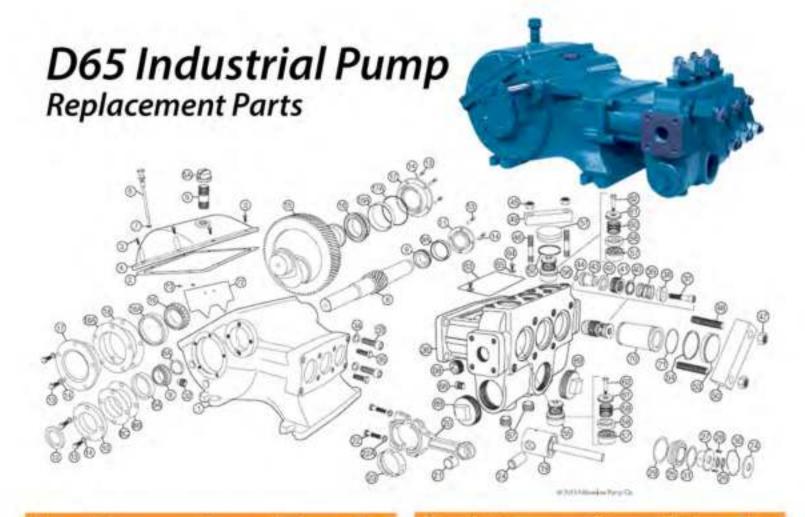
C2 Plunger Cup C5 Plunger Cup WEIGHT 0.25 lbs. 0.25 lbs.

300 & 700 PSI Water Relief Valves

For Vactor[®] type sewer cleaning machines for regulating wash down gun pressure.



Water Relief Valve-300 PSI U40029A 1 U41692 *Adjusting Screw Assembly 2 U41693 Lock Nut 3 U41694 *Body 4 U40919 **Spring Retainer** 5 U40916 Gasket 6 U40917 Spring 7 U40918 Guide Seat 8 U41695 Inlet Adapter *Not Sold Separately Water Relief Valave-700 PSI U40029 1 U41692 *Adjusting Screw Assembly 2 Lock Nut U41693 3 U41694 *Body 4 U40919 Spring Retainer 5 U40916 Gasket 6 U40917 Extra Duty 700 lbs. Spring 7 U40918 Guise Seat-Stainless Steel 8 U41695 Inlet Adapter *Not Sold Separately Seal Kit (Item # 3 & 4) U43147 U42879 Control Knob (Item # 5 & 6)



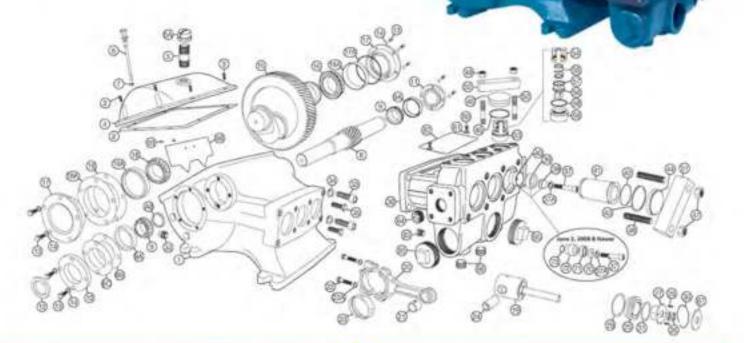
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E-Series Industrial Pump Replacement Parts

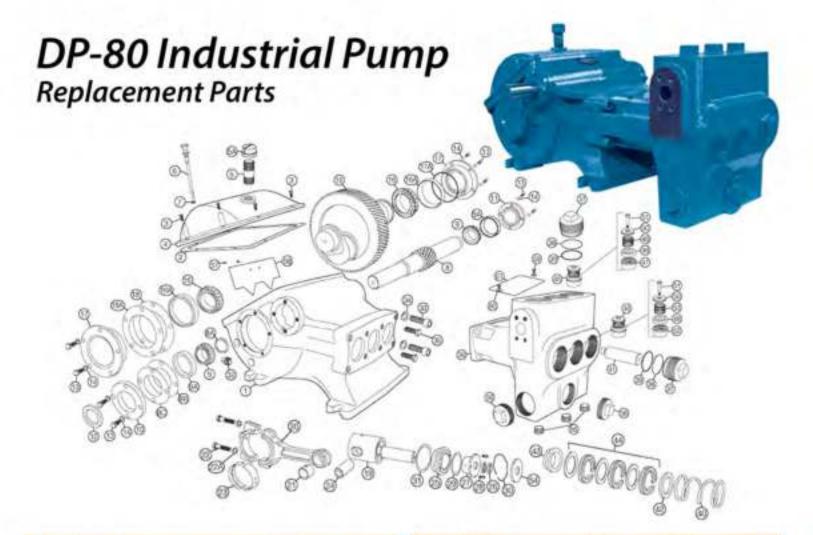


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	Happile Speccal Vent		1/199/SA000	AVPL/955A	10.0	Retained Plates \$86-20		1204-09V7-00A	WF720E-21HF-00A
SA.	Cap Part	E	05717A802	AMPSTATAS	145	Rehavior Proble E113-14	- A.	7294-8649-00A	WF7288-8349.00A
	Dip Bick with-Bog	1 C	17380Add IK	A4017260A11	38	Pieton Cap E54-30 (1.76 mil)	3	7356-0389-0KA	MF7304-838F-80A
7	O-Bang for Digr Mick		Q1876ADK3RC	AVESITY AKS	284	Paton Cap £70-25 (2:00 st.d.)	3	7306-0190-06A	WF7206-8392-66A
	Shaft Prove		201a-48000x623 *	AM/2016/40/020	104	Robust Cap (NO 2010, 193 and)	1.1	7306-8995-00A	WPT298-8/993-00A
BA.	Taxan ar		2014-48022402	A4P301ii-48032A		The Back (2 50 mill)		7,899-9417-00A	WPT308-0417-00A
0.0	Shin Giren (01)		0123104074	AMPSZELR74	40	Perton Hulp-2114 (0)	1	7204-0134-00A	MP7288-3558-00A
eC.	Share Park DYS		042314623	MP5221A75	-80.4	Pantos Hult (70-31	1.1	7206-019FL0EA	MP730s-0393-05A
	Coste Restrong Parities		054744013	AIPS674A11	408	Photoev Hudo 200-30		7206-2196-00A	MPT296-0396-00A
184	Cup Branks Plant	- T	105473A009	AWSATSAW	450	Particula Hada C'U Gla 24	3	7204-8358-00A	AP7204-BYMLODA
10	Cap Oven	ĩ	045454001	APHDELAI	41	Coluder Liner Eli4 (\$1,73 of)		200484000	IAPONE498A
10	Cas Closed	1.	047438021	ASPRT4181.	414	Cylinder Sner 879-23 (2.00 v/c)	T	200114001	MP20ELLAT
11	Ovised		011704217	AMPS71DA17	418	Cylinder Later E80-39 (2.1251al)	1.1	208514004	INF2085TA4
13	Snew Pestelli Charle Cap	10	19306A212	ANPTPEDIATE	498 49C	Cvindertiner ETID 14(250-id)		210474003	MP2KERIADO3
14.2	Window Setal		TEPHEADOR	A0734246A3	42	Colorder Low O-Reg	1.1	ODE?NACHS	MP1876APE
10	Contribute /5 Teets		2009403234077*	AMP201959CH21	43	Colordro Cap Smill Rong		7332-3043-004	HE7303-0041-00A
16	Cone finance Crank		25474A001	MESERAZI		Coloraber Cast		DEBUSIADO	MP20815A
TAA.	Cog-Bratting Crook		054754013	A895476A11	45	Sed Ring Value Cap		208626000	MP26862A3
3.0	Calibrates	142	346348064	ANP482484	44	Valve Cap E Series Involget 200-211		2w8#64000	MF36846A
DA.	C-Reg ("10 for bearing Cars		010364070	APPERTANCE	47	inection 2/8-14		TITIONA072	MPINISHAT2
18	Share Cause . 001		010484018	AVITUARATE	- 40	Sturf 78-14		OSASVADER	AP1d5VAEP
HA	Mary Park (015	- 120	DIDURADTO	ANYSOMEATE.		Him Titut 128-13	1.1	19109A046	INFERIORAM.
32	Phag Inlagorette Coll Disam	1.12	374824002	ANPERADIAS	49 50	Shal SIN II		054594540	MPRESIASAO
33	Screw Cap 3/4'-30		067064008	ANN HOLASE	- 51-	Cylindre Cap Clange Bar	1.2	205164000	IMP20054A
34	Loss Widter		01454A0/T	APERIAN	53	Value Dap-Clamat Bar	- T	30846A000	AAF208-MDA
10	Sine Car MY-30	- 2	39705A000	APTEIDAE	50 53	Summillionharge Valve Assendity	1.2	T155-660-6/0718	MFT53EARCIACO75
44	Baffer Drigs Then		4402154000	ANNAL114ERD	54	Valve Cape		7205-0544-009	MF7283-0544-008
	Adapt Scherer		043044000	MENDOARDA	55	Value Spang		7256-0102-00A	MF7206-2000-000A
10	Adam bitter		041004014	and a substant of a	56	Vulve-Gente	20	7203-8543-00A	MP7283-0142-00A
					\$7	Value leases ED#-20 (Publicareduare)	1.1	7001-8546-00A	MPT285-8546-00A
					10	Value O-Ring E80-20V		09676A236	MP1876A336
					184	Valve C-Ring \$70-21.6 \$110.14	122	110-000012-301	x6F115.000013301
					324	Value Seat	1.20	7203-0 343-008	WFT3U3-8543-008
						Form Bailenthis	1020	7203-0 543-00E	APACTER 1

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			A Horse P	
19 20 71	Cautered	3	062110042	WM1211842
20	Duttle from LAR (Rading bubilied)	3	179430303	WF12043C2
11	Building	- B-1	BUTH STADDINED	APRILITEA.
11	Tensor for Long PLOT		TRADAPTAR	MP19103ATE
IZA.	upon Walker for Link Half		05454A004	INF1454A8
26	Rearing Two Highes Readard		1524SASOTRED	MP15241ATH
24	West Pop	1.	MADE LOS AGAIN	IAF6411235A3
25	Retarner CH Saul Housing	R.C.	247184500	Kahoaphan.
26	Of Sections per basing		23835A003	APPENDER, AT
207	Housing Childeat		247103-0000	NAPO405314
24	Allow Scattle		De timette	60%///mA1#
20	Collect Battones Housins (La)	1	DOOTRACTS.	APRIL DATE
10	Cale Server	x.	h0010434000	addd 1441A
51	Contrast Chill Sand Mercanner		sportantia.	ADDITIONALLY .
10	Cit Minerer Washer		Provide and a local	hand have been

Value O-Bo Valver O-Bo Valver O-Bo Valver D-Bo Wather Bu Valver Bu Valver Ba Hig 1/2" P Plag 1-1/4" Plag 2" Fige Plag 7" Par Plag 7" Plag 7" Par Plag 7" Plag	Hind LAI #Decilial #Ana of Real Decil Per Topic * # # # # # # # # # # # # # # # # # #	*****	7303-634-00A 7325-854-00A 098754236 190-000012-361 7233-9-144-00B 0952844002 000184005 605224463 005224463 005224464 002214640 005224464 002214640 005224464 7250-6364-00A 7306-6354-00A	AP7283-0142-004 INF7285-0546-004 INF7285-0546-004 INF7285-0546-008 INF7285-0548-008 INF7285-0548-008 INF7005-0548-008 INF7005-0548-008 INF7005-0368-038-058 INF7206-038-038-058 INF7206-038-038-058 INF7206-038-038-058 INF7206-038-038-058 INF7206-038-038-058 INF7206-038-038-058 INF7206-038-038-058 INF7208-038-038-058 INF7208-038-038-058 INF7208-038-038-058 INF7208-038-038-058 INF7208-038-038-058 INF7208-038-038-058 INF7208-038-038-058 INF7208-038-038-058 INF7208-038-038-058-058 INF7208-038-038-058-058 INF7208-038-038-058-058-058 INF7208-038-038-058-058-058-058-058-058-058-058-058-05
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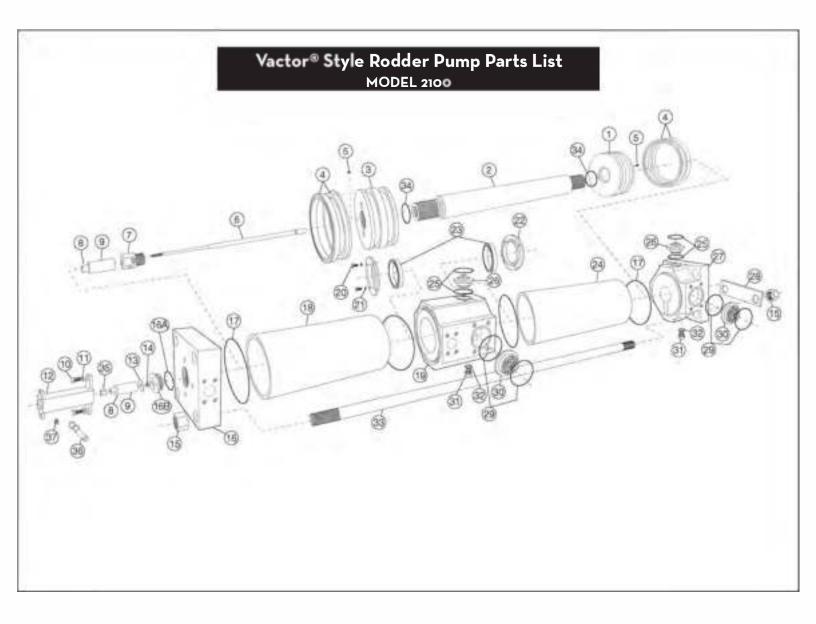
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	Cartes		046258000	IMPAG21E1	
2.	Gathet LM		56-201 C000	NF6351C	
	Schew Rat Lati		1#H00A00950	WFFFFEDDAS	
	East		045018000	64845618	
- S	Name Special York	14.1	17995A008	MELTINEA.	
84	Cap Page	1.10	067574002	MPS/37A2	
	Op Stok w/O-fing		17160A0196	MP17340A11	
	O-Rang the Dip Stole		INIT/LADEDK	WPLE?AAG3	
	Shaft Presen	1.00	2016-48/0704287*	64P201848ED0	
	Sparer	- N -	201648023AIC)	MF201648072A	
	Shim Green XEB	4	05211A074	IME5231A74	
90	Share Park (213	4	05231A025	HAPS2TTA75	
	Care Bruning Parani	2	05474A033	AMB674AD3	
944. 142	Cap Buring Nation	2	6567%A009	VAP5675A9	
10	Cap Open	8.	045414007	MMASASAS	
88.	Cap Closed	1.1	047418001	WF674161	
10	OI Seal		65170A017	HPS78A17	
11	Screw Preiox & Crark Cap	18	10103-0023	METHODIALS	
	Wadwe find	14	14M6(A003	INFERINALAS	
15	Chevenhaft - 75 Teetti		2013950224020*	MP203HACIUZ	
24	Give bearing Crank	2	65474A018	MP5674A38	
16A	Cup Bearing Crush	2	05675A013	HAPSHITSAID	
87	Capitviang	1	046248004	AMPR62404	
17A	O-Rang 111D for Resting Case	2	88676A098	MP5876A99	
10	Shire Creten 201		DS068A018	MPLOWAX8	
RBA.	Silven Pack - dill's		OSCHRAGINE	MPSO68A16	
82	Mignetiv Plag Oil Dage	9	374811A002	WFS7481A2	
11	Sizew Car 2/47-10		001964038	MP61GAA28	
34	holk Wader		09#54A003	INFE4SAA3	
39	Street Cap 507-37	4.	TRIDGADDE	MF19101AR	
- 17	Allen Schen	3	06106A014	MF0106A34	
38	Ruller Drig: Fluite		132255486000	1XPM21548000	

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10.	Gusteal	1	247548000	ME24PLAR
26	Dunke You Lait (Bailing tratalled)	8.	1704020007	APT76A3CT
21	Bucking	- B-	801679A00040E	NEFBIAISA
22	Scene for Link Platf		614171A01670	APRIVIDIA16
7.IA	Louis Washes for Lost Hall		80454K004	147545464
23	Rearing Tool Halson Manufact	8.5	TEHDAMORED	MP10245A101
24	Weat Rev	3	MO1525ADDF	MPMP125A1
25	Returner CNi Seul	3	349354800	MPD4PSBA
26	Coll Soul Facts proc familiang		22635-6003	WP2NRIEKE
20	Himselg-OH Seal	1.	34999A4000	AP2485NA
28	Allen Schow		Do1084004	MPUTIDA34
28	Garket Partainer Housing	5	25079A856	APRESPASE.
38	Cinile Surng (Wars)	8.7	NIEGALADOD	MININATA .
25	Garlet Of Irod Houring	1.0	pionwalte	APARADA 424
40	Spring - Patting	1	2x2793480011	MP24799A1
41	Physiper Coulord (2158)" and 2	1	3479986022	NAR24798822
42	Walter Spring (21/8" a.d.)	1	3#P25A503	MP24HSAT
43	King-land Buck	3	2495.4A000	MPDIPLEAT
44	Facking (21M° and)	1	3499 24003	IMPDEMIAE
14	Chillingter Washer	1	000794243	MPERENA263

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Participation All Pr		349614000	6.8134Pe11000	
Place that Body A (L.F.) Cigit for Desharge and Section Value		2A717A800	68P34797A	
Offen		000244348	MPSE76A188	
Rock the Base		107U2AD07	WEWSTON AT	
Manger Crosted (25% md)		247998022	Autor 200 000 20	
Uncharge Valve Autor	£		1073479000	
Suction Valve Amy			with a final a	
Discharge Valve Seat FE.A.		Technologies .	AND DOTTO AND	
Value Datrol		100144 DOI:	APIDITAL	
Spring-Divisioner Walter	1.1	110724-002	MPTIRINAT	
Retainer Spring	1020	100134038	xiP18513A1	
Cap Scree Torest Luck	1.2	18E32A202	AMPINEDIA2	
		Contract Activity	and the same	
Settion Value Sear F.E.A.		2414444000		
Santon Value Spring	2.2	118204200	ANTIN29A	
Plug 1" Plate		85222AD43	NP3022A43	
uell 2, ube		01275A200	APIIIOA	
Survey Head Real End	2. ·	00028A002	MP9626A2	
Waller Full Ind Ull	1.85	0103040301	MPSEDDA20.	
tail Collader Arms of Flood End		NR2525A088	A496/1120A	
and the second second second second		Prostant.		

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PARTIN: In 1997 the constraints of since you with the incompose charged from 4 pages ends of august. Restrict processed that is a rate of the start, which we are not a second constant backwer (White the composed matches (They are patients of second).



Ref.	Description	Qty	Part #
1	Piston, Water End - Aluminum	1	U29950A
1	Piston, Water End - Bronze	1	U29950
2	Piston Rod, Rodder Pump Assembly	1	U29328
3	Piston, Oil End	1	U39260
4	Seal. Piston	4	U29638
5	Set Screw, SS 5/16" - 24NF x 1/2" long	2	U41B48
6	Sensing Rod	1	U39200
7	Yoke, Sensing Rod	1	U29678
8	Pin, Roll 3/32" x 3/4" long	1	U16420W
9	Piston	1	U66563
10	Cap Screw, 1/2" x 11/4" long	2	U42392
11	Lock Washer 1/2"	2	U16367C
12	Detent Block Weldment	1	U62449
13	Bushing, HAT STL RD 11/2"	1	U39222
14	Seal	. 1	U29662
15	Nut, Hex 11/2"	8	U29644
16	Block, Oil End - New Style	1	U62461
164	0-Ring, Style Oil End Block	1	U62461.003
168	Nut HYD Service Oil End Block	1	U62461.002
17	0-Ring - Parker	4	U29663
18	Oil Barrel	1	U29321
19	Block, Center - New Style	1	U62112
20	Cap Screw - Stainless Steel	8	U29841
21	Washer, Lock 1/4" SS	8	U29842
22	Aluminum Seal Keeper	2	U29698
23	Seal, Piston Rod	2	U29664
24	Water Barrel	1	U41717
25	0-Fling - Parker 2"	4	U29674
26	Check Valve 2"	2	U29385
27	Block Water End - New Style	1	U51600
28	Plate, Bolting	2	U52235
29	0-Fling - Parker 3"	4	U29640
30	Check Valve 3"	2	U29384
31	Drain Plug, 3/4" - 16NF	2	U29826
32	O-Ring - Anchor	2	U29827
33	Truss Rod 11/2" - Vactor Pump	4	U29323
34	0-Ring - Parker (For Piston Rod)	2	U29923
35	End Cap	1	U55784
36	Sensor	1	U45834
37	Breather	2	U43049
	Seat Kit, Oil End Includes: #4, 14, 17, 23 & 34	1	U37495
	Seal Kit, Water End Includes: #4, 17, 23, 25, 29, 32 & 34	1	U37496



- 47. U62459 Intake Manifold Elbow Weldment
- 48. U40500 High Collar Lock Washer 5/8"
- 49. U16344-T Socket Head Cap Screw 5/8"X3-1/4"



50. U45727 Hose Clamp



51. U45824-C 3" Water Hose X 18"



52. U62460 Intake Manifold Tee Weldment



59. U62047 High Pressure Block Water End

60. U40314 High Collar 1/2" Lock Washer61. U45911-A Socket Head Cap Screw 1/2"X4"



- 64. U62048 High Pressure Block Center Block
- 65. U44144 Socket Head Cap Screw 1/2" 13 UNC X 2-1/2"



The Original RAM Swivel

RAM swivel joints are manufactured and engineered to exacting specifications. Only the highest quality materials are used in manufacturing this product to ensure the purchaser a quality, dependable swivel with a longer life and less down time than competitive models.



U40052A	3⁄4″	90°
U40052	1″	90°
U43947	1¼"	90°

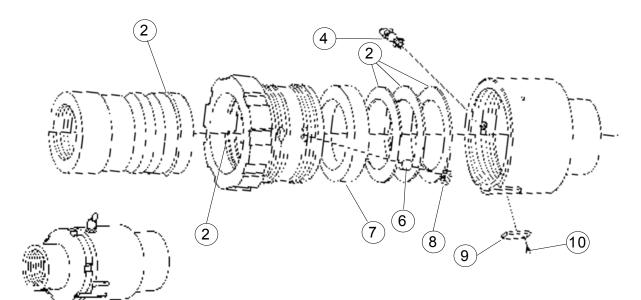


U40052B	3⁄4″	Straight
U40052C	1″	Straight
U44106	1¼"	Straight

Advantages of the RAM Swivel

- The Housings are a steel investment cast for a longer life.
- The Gland Nuts are Heat Treated for a longer wear.
- The Rotary Sleeve is Heat Treated for longer wear and milled with
- (2) flat areas that are machined on the rotary sleeve for wrench-tightening.
- The Backup Ring is Nickel plated to prevent rust
- Zerk Fittings are installed to lubricate for longer wear.
- All parts are interchangeable with TM[®] manufactured swivels.

MADE IN THE USA.



RAM® STYLE STRAIGHT SWIVEL

w. (c)

Packing Seal Kit (2)

	.,				
U40375	3/4" & 1" 0.5 lbs				
U44647	1-1/4" 0.5 lbs				
Grease Fitting (4)					
U41759	3/4", 1" & 1-1/4" 0.01 lbs				

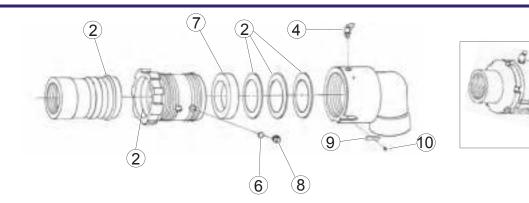
Bearing F	(it (6)		lap
U42085	3/4" & 1"	0.5 lbs	U4(
U44648	1-1/4"	0.5 lbs	Ret
Back-Up	Ring (7)		U4(
U42084	3/4" & 1"	0.25 lbs	
U44650	1-1/4"	0.25lbs	
Ball Reta	iner Screw (8)		
U40052.0	008 3/4", 1" &	a 1-1/4" 0.01	lbs

 Tab Retainer (9)

 U40052.009
 3/4", 1" & 1-1/4"
 0.01 lbs

 Retainer Screw
 (10)

 U40052.010
 3/4", 1" & 1-1/4"
 0.01 lbs



RAM[®] STYLE 90° SWIVEL

Packing Seal Kit (2)		Bearing Kit (6)		Tab Retainer (9))		
•	3/4" & 1"	0.5 lbs	U42085	3/4" & 1	" 0.5 lbs	U40052.009	3/4", 1" & 1-1/4"	0.01 lbs
U44647	1-1/4"	0.5 lbs	U44648	1-1/4"	0.5 lbs	Retainer Screw	/ (10)	
	, Hina (4)		Back-Up Ring	(7)		U40052.010	3/4", 1" & 1-1/4"	0.01 lbs
Grease Fitting (4) U41759 3/4", 1" & 1-1/4" 0.01 lbs		U42084	3/4" & 1	" 0.25 lbs				
041759	3/4,1 & 1-	1/4 0.01 105	U44650	1-1/4"	0.25 lbs			
		Ball Retainer S	crew (8)					
			U40052.008	3/4", 1"	& 1-1/4"	0.01 lbs		

1 1/4" Swivel Repair Kit

U43947A-30 *Includes above Items: 2,6, & 7

3/4" & 1" Swivel Repair Kit

U40052A-30 *Includes above Items: 2,6, & 7

Ball Valves

Hycon[®] Style Three Way Ball Valves Used on Vactor[®] and Vac-Con[®] type machines.



Part #	Size
U44535	3/8" Three-Way 5000 PSI
AT130890	1/2" Three-Way 5000 PSI
AT130920	1" Three-Way 4500 PSI
AT130919	1 1/4" Three-Way 4500 PSI

Three-Way Ball Valve Handle

Hycon[®] style ball valves are used on many of the leading sewer cleaning equipment such as Vactor[®], Vac-Con[®] and Aquatech[®] machines.

Hycon[®] Style Two Way Ball Valves Used on Vactor[®] and Vac-Con[®] type machines.



Part #	Size
U42446HY	1/4" Hycon®
U40575HY	1/2" Hycon®
U40575C	3/4" Hycon®
U40576HY	1" Hycon®
U43941HY	1 1/4" Hycon®

Two-Way 3000 PSI Two-Way 3000 PSI Two-Way 3000 PSI Two-Way 3000 PSI Two-Way 3000 PSI

Part # AT1800 Size 3/4" and 1" Two and Three-Way Handle

Apollo® Style Two Way Ball Valves



Part #	Size
S6000-010293	1/2" Apollo Two-Way 2000 PSI
S6000-00681A	3/4" Apollo Two-Way 2000 PSI
S6000-00681	1" Apollo Two-Way 2000 PSI
S6000-00681B	1 1/4" Apollo Two-Way 2000 PSI

Ball Valve Seal Kit



F	Part #	Size
ι	U43955	1" Dynaquip [®] Style Ball Valve Kit
ŀ	AT191290	1/2" Hycon [®] Three-Way Ball Valve Kit
ι	U43941HYS	1 1/4" Hycon [®] Two-Way Ball Valve Kit
ι	U40576A	1" Hycon [®] Two-Way Ball Valve Kit
ŀ	AT1815	1" Hycon [®] Two & Three-Way Kit
ŀ	AT1820	3/4" Hycon [®] Two & Three-Way Kit
ŀ	AT1840	1 1/4" Hycon [®] Three-Way Ball Valve Kit
	AT191290 U43941HYS U40576A AT1815 AT1820	1/2" Hycon [®] Three-Way Ball Valve Kit 1 1/4" Hycon [®] Two-Way Ball Valve Kit 1" Hycon [®] Two-Way Ball Valve Kit 1" Hycon [®] Two & Three-Way Kit 3/4" Hycon [®] Two & Three-Way Kit

Wash Down Guns



5 BUTTON PENDANT CONTROL W/4-WAY BOOM

Part Number U54219

Compete 5 Button Yellow Pendant Control, used on Vactor[®] truck applications.



Part #	Size
U54219	5-Button - 15' Cord
U54219B	5-Button - 20' Cord
U54219D	5-Button - 25' Cord
U54219A	5-Button - 30' Cord
U54219E	5-Button - 50' Cord
U54219C	5-Button - No Cord



Note: Manufactured Pendant Controls, all switches are soldered directly to the top of the circuit board and the cord wires are soldered to the bottom of the circuit board which insures contact. Made in the USA.

ITEM #:

DESCRIPTION

QUANTITY NEEDED

	PART #:		
	U54219	Complete w/15 Foot Cord	
	U54219A	Complete w/30 Foot Cord	
	U54219B	Complete w/20 Foot Cord	
	U54219C	Complete Box Only - No Cord	
	U54219D	Complete w/25 Foot Cord	
	U54219E	Complete w/50 Foot Cord	
1	U43728	Pendant Control - Top (Yellow)	1
2	U43729	Pendant Control - Bottom (Yellow)	1
3	03-0401-165	Cable 16/5 SOOW 600 W	
4	U53009	Screw 10-24 x 2 SOC HD CAP	4
5	U53008	Nut, Nylok 10-24 Jam	6
6	U53010	Screw, 10-24 x 1 SOC ND CAP	2
7	U43809	Switch, Pendant Control	5
11	70-0401-000	Power Control Board	1
12	U44869	Boot, Switch - Red	1
13	U41485	Plug, Trailer 5 Pin Connector	1
14	U53003	Boot, Switch - Grey	1

7 BUTTON PENDANT CONTROL

Compete7 Button Black Pendant Control, used on Vactor[®] truck applications.

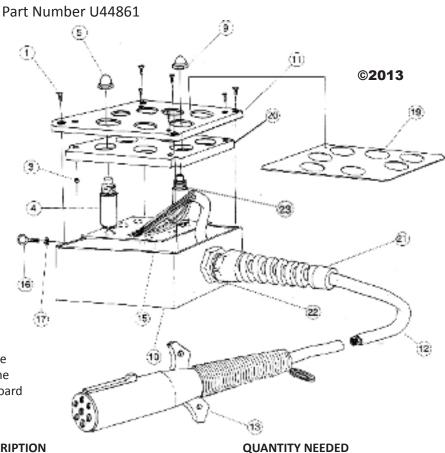


Part #	Size
U44861B	7-Button - 10' Cord
U44861C	7-Button - 15' Cord
U44861D	7-Button - 20' Cord
U44861E	7-Button - 50' Cord
U44861A	7-Button - No Cord

23

U47867

Note: Manufactured Pendant Controls, all switches are soldered directly to the top of the circuit board and the cord wires are soldered to the bottom of the circuit board which insures contact. Made in the USA.



ITEM #:		DESCRIPTION	QUANTITY NE
	PART #:		
	U44861	Complete w/30 Foot Cord	
	U44861D	Complete w/15 Foot Cord	
	U44861A	Complete Box Only - No Cord	
	U44861F	Complete w/25 Foot Cord	
	U44861E	Complete w/50 Foot Cord	
	U44861B	Complete w/10 Foot Cord	
1	10-883250	Screw, 8-32 x 1/2 FL HD SOC	4
4	U43809	Switch, Pendant Control	1
5	U53003	Boot, Pendant Control - Grey	6
9	U44869	Boot, Pendant Control - Red	1
10	U44918	Box Only, 7 ButtonP endant Control - (Black)	1
11	U44919	Lid, 7 Buttonpendan t Control	1
12	03-0401-167	Cable, 16/7 SOOW 600 V	
13	U44859	Connector 7 Button	1
15	70-0401-007	Power Control Board	1
16	10-9632-125	Eye Bolt	1
17	10-0632-218	Nut, Nylok 6-32	1
19	55-4486-100	Decal, 7 ButtonP endant Control	1
20	16-4486-150	Plate, Pendant Control Switch	1
21	U44860-1	Strain Relief	1
22	U44860-2	Lock Nut - Strain Relief	1

Switch, Pendant Control

6

Pendant Controls

7-Button w/VAC Relief

7-Button Pendant Control w/ VAC Relief and Kill Switch

Part # U44861L

Size 7-Button Pendant Control w/VAC Relief and Kill Switch

Pendant Control

Used on Vactor® Truck

Application Long Yellow Body

Part #	Size
U44861JA 7.0 lbs	7 Button 20' Cord
U44861J 7.5 lbs	7 Button 30' Cord

Easement Roller

The Easement Rollers are used in the operation of sewer jetting machines when the manhole is a long distance away, as in an easement.

These rollers should be used in 15' intervals from the sewer cleaning machine. An easement roller aids in reducing drag and preventing abrasion to the sewer cleaning hose. It's supplied with 3 stake pins to anchor to the ground. The roller is cast aluminum 3 ¼"wide x 5" in diameter. Made in the USA.

Part #	Description	Weight
D0-90	Easement Roller Assy.	9 lbs.



Safety Manhole Roller Cover

A Safety Manhole Roller Cover is designed to add a level of safety as an operator works from an open manhole and minimizes accidentally stepping into the manhole. This part is made of steel and painted with a highly visible yellow powder coated finish.

The 5" polyethylene roller is extremely durable and it provides a great surface to protect the outer jacket of sewer cleaning hose and video inspection cable. The manhole roller cover fits a 20"-26" manhole opening. NOTE: An aluminum roller can be substituted on request. Made in the USA.

Part #DescriptionWeightD0-6MRFSafety Manhole Roller Cover38 lbs.

Heavy Duty Top Manhole Roller

The DO-6B top manhole roller is made from 2" x 1" x .120 wall steel tubing. Its frame is powder painted blue to protect this part from rust and corrosion. The DO-6B is designed for rough and tough use in sewer cleaning and pipeline video inspection applications.

Part #	Description	Weight
D0-6B	Heavy Duty Top Manhole Roller	35 lbs.
	w/ Nylon Roller	
D0-6BA	Heavy Duty Top Manhole Roller	35lbs.
	w/ Aluminum Roller	



Regular Duty Top Manhole Roller

The DO-6D top manhole roller is made from 2" aluminum angle that makes it lightweight but rugged.

Part #	Description	Weight
D0-6D	Regular Duty Top Manhole Roller	16 lbs.
	w/ Nylon Roller	
D0-6DA	Regular Duty Top Manhole Roller	16lbs.
	w/ Aluminum Roller	



Nylon Replacement Manhole Roller

The nylon replacement polyethylene roller fits most top manhole roller frames. It is 5" wide x 5 $\frac{3}{4}$ " in diameter and is supplied with a $\frac{3}{4}$ " bored hole for the axle bolt.

This roller is very durable but not abrasive to the sewer hose or video inspection cable outer jacket.

Part # Description Weight D0-7N Nylon Replacement Roller



Aluminum Replacement Manhole Roller

3 lbs.

D0-7's replacement aluminum roller fits most top manhole roller frames. It is 5" wide x 5 ³/₄" in diameter and is supplied with a ³/₄" bored hole for the axle bolt.

This is a great roller to use on top manhole rollers when a cable or extreme service is required. Made in the USA.

Part # Description Weight D0-7 Aluminum Replacement Roller 6 lbs.



Easement Replacement Aluminum Roller

Our replacement aluminum roller fits most easement roller frames. It is $3 1/4^{"}$ wide x 5" in diameter and is supplied with a 3/4" bored hole for the axle bolt.

This is a great roller to use on top manhole rollers when a cable or extreme service is required. Made in the USA.



Jetter Style Hose Level Wind Assembly

Jetter Style hose level wind assembly is manufactured to be installed universally on sewer cleaning jetter trucks and trailers. The aluminum hose guide tube contains two nylon rollers, which insure easy hose retraction and efficient hose bailing. This level wind assembly is also available with a footage pressure wheel which drives a mechanical footage counter, giving the operator a point of reference while jetting pipe. The frame is of steel construction with a powder painted black finish. The operators control handle includes a rugged rubber hand grip. Made in the USA.

Part # UEM222850J UEM222850JC 30-0990-100 Description Assembly w/o Counter Assembly w/Counter Counter Weight 21 lbs. 23 lbs.



Combo Style Hose Level Wind Assembly



Combination Style hose level wind assembly is manufactured to be installed universally on sewer cleaning/vacuum combination machines with a front hose reel. The aluminum hose guide tube contains two nylon rollers, which insure easy hose retraction and efficient hose bailing. This level wind assembly is also available with a footage pressure wheel which drives a mechanical footage counter, giving the operator

> a point of reference while jetting pipe. The frame is of steel construction with a powder painted black finish. The operators control handle includes a rugged rubber hand grip. Made in the USA.

Part # UEM222850C UEM222850CC 30-0990-100 Description Assembly w/o Counter Assembly w/Counter Counter

Weight 21 lbs. 23 lbs.

Footage Counter / Pressure Wheel

This all-aluminum footage measuring pressure wheel is used on all Jetter Style hose level wind assemblies using a footage counter. It is also used on older Aquatech machines. Aluminum construction with knurled finish for positive hose grip. Made in the USA. Part #HLW-104



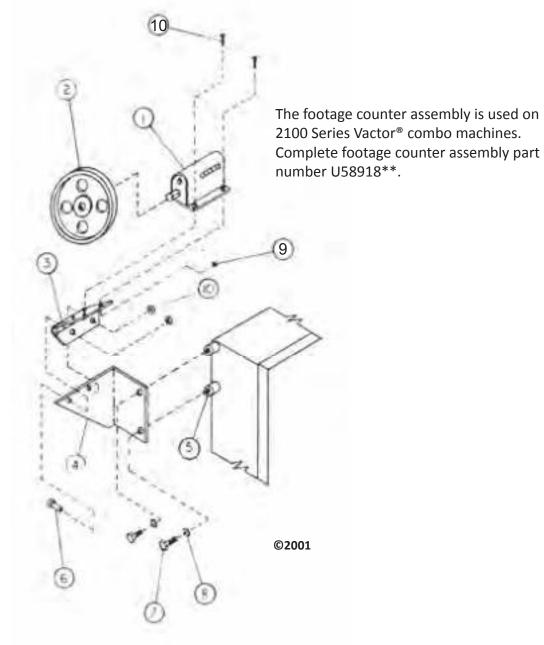
Aluminum Hose Guide Tube



This aluminum hose guide tube is used on all level wind assemblies. It also fits early 1990 and later Aquatech[®] sewer jetting machines. Use replacement roller P/N 6028. Made in the USA.

Part #	Description	Weight
U222B10-1	Aluminum Hose Guide	1.85 lbs.

Footage Counter Assembly



ITEM #	PART #	DESCRIPTION	QUANTITY
1	U45047	Left Hand Footage Counter	1
2	U45046	Counter Wheel	1
3	U45049	Footage Counter Hinge	1
4	U58917	Mounting Bracket	1
5	U16335	Screw, 1/4-20 - 3/4 Hex Head Cap	2
6	U16339	Screw, 5/16-18 NC x 3/4 Hex Head Cap	2
7	U16367A	Laco Washer 5/16"	2
8	U20121G	Lock Nut 1/4-20NC	2
9	U16359X	Hex Nut 4-40	4
10	U16340O	Screw, 4-40 x 1/4 Round Head S.S.	4

4-Way Roller Assembly

This 4-roller hose guide is used on sewer cleaning equipment to help guide sewer cleaning or wash down gun hose around obstacles on a sewer cleaning / combo truck application. As used by Super Products[®] machines for many years. Made in the USA.

Part # \$3000-00347

Description 4-Way Roller Assembly

Weight 1.5 lbs.



Durant® Footage Counter

This Durant[®] mechanical counter is right-hand drive and is used on many Vactor[®] type trucks 1988 and newer. It is also known as P/N 31127400/5D71RAC. Uses measurement wheel P/N U45046. Made in the USA.

Part # U45054 F

Description Footage Counter Weight 0.5 lbs.



Durant® Footage Counter

This Durant[®] mechanical footage counter is left-hand drive and used on many Vactor[®] type trucks 1988 and newer. Also used on Vac-Con[®] type trucks. This counter is also known as P/N 31127408. Uses measurement wheel P/N 45046. Made in the USA.

Part #DescriptionU45047Footage Counter

Weight 0.5 lbs.



Footage Wheel for Current Counters

This footage wheel is used on Vactor[®] and Vac-Con[®] sewer cleaning equipment where a Durant[®] counter used on the sewer level wind assembly. Equipped with an allen wrench for easy installation. Made in the USA.

Part # U45046

Description Footage Wheel Weight 0.5 lbs.



Footage Wheel

This footage wheel is used on 1987 and older Vactor[®] type sewer cleaning hose level wind assemblies using a Veedor Root Counter. Made in the USA.

Part # U40867 **Description** Footage Wheel Weight 0.5 lbs.



Blue Nylon Discharge Hose

Used for de-watering the debris tank on many style vacuum trucks.

Part #	Description
U39898	Bulk Hose (Per Foot)
U29898A	6″ x 5′
U29898B	б" х 8′
U29898C	6″ x 10′
U29898E	6″ x 15′
U29898F	6″ x 20′
U29898G	6″ x 25′
U29898H	6″ x 50′
U29898N	6″ x 100′



Throttle Cable

The throttle cable is of heavy duty construction, available in eight lengths. Used on many sewer cleaning trucks and trailers. Addition lengths upon request. As well, electronic assemblies are available. Made in the USA.

Part # Description		Weight
U44876-6	6' Throttle Cable	0.75 lbs.
U44876-8	8' Throttle Cable	1 lb.
U44876-10	10' Throttle Cable	1.25 lbs.
U44876-12	12' Throttle Cable	1.5 lbs.
U44876-14	14' Throttle Cable	1.75 lbs.
U44876-15	15' Throttle Cable	1.88 lbs.
U45440	18' Throttle Cable	2.25 lbs.
U44876-22	22' Throttle Cable	2.75 lbs.
U45555	Electronic Throttle Assembly	4.3 lbs.



Adjustable Hydrant Spanner Wrench

The Adjustable Hydrant Spanner Wrench is just that. With a cast steel body and heavy-duty plated steel handle, this wrench is meant to last. Made in the USA.

Part #DescriptionU-189Adjustable Hydrant Wrench

Weight 3.7 lbs.



90° Handle Manhole Cover Hook

The 90° Manhole Cover Hook has a rotated handle from that of a standard hook. Manufactured using 5/8″ hex heat-treated steel for strength, durability and extended life. Available in 18″ and 30″ lengths. Made in the USA.

Part # MHH-918 MHH-930 **Description** 18″ 90° Manhole Hook 30″ 90° Manhole Hook Weight 2.6 lbs. 4 lbs.



Standard Handle Manhole Cover Hook

The Manhole Cover Hook is heavy-duty, manufactured using 5/8" hex heat-treated steel for strength, durability and extended life. Available in 18", 26" and 36" lengths. Made in the USA.

Part # MHH-18

MHH-26

MHH-36

Description 18" Manhole Hook 26" Manhole Hook 36" Manhole Hook Weight 3.74 lbs. 4 lbs. 5 lbs.

Water Fill Hose Assembly

Water fill/hydrant hose assembly is available in bulk sizes. Listed below are the assemblies as shown. The assembly is available with a male and female end with two clamps on each end.

Part #	Description
U20720K-A	2 1/2″ x 10′
U20720F-A	2 1/2″ x 15′
U20720G-A	2 1/2″ x 20′
U20720A-A	2 1/2″ x 25′
U20720H-A	2 1/2″ x 30′
U20720D-A	2 1/2″ x 50′
U20720E-A	2 1/2″ x 60′

Water Fill Hose

Bulk Hose Only

Part # U20720K U20720F U20720G U20720A U20720H U20720D U20720E U20720E	Description 2 1/2" x 10' 2 1/2" x 15' 2 1/2" x 20' 2 1/2" x 25' 2 1/2" x 30' 2 1/2" x 50' 2 1/2" x 60' 2 1/2" x 100'	

Male Coupling



Part # U20199A

Size 2 1/2" Male Coupling

Female Coupling Gasket



Part # U41487

Size 2 1/2" Female Gasket

Female Coupling



Part # U20199B

Size 2 1/2" Female Coupling

Hose Clamp



Part # U20695Z

Size Clamp

G2 - 1/8" Mini Penetrator Nozzles

G2-series Mini Penetrator nozzles are made of high-grade steel and coated with a black oxide finish for extended nozzle life. The G2-series features an outer under-cut ledge where the rear-facing jets are drilled into to prolong nozzle life and smooth, non-turbulent water flow for pressures up to 4000 PSI, ranging from 3 to 10 GPM. The G2 series nozzles have a 1/8" FPT connection with three-to-six rear facing jets and can be ordered with or without an optional front jet to maximize cleaning tasks, most notably in the plumbing industry. G2-series nozzles are in-stock ready for your specially-tailored needs.

Specifications

Rear jet angle: 30° Diameter: 5/8″ Length: 5/8″ Weight: .02 lbs. Made in the USA.

Part #	Jet Description	GPM	PSI
G2-33	1 Front / 3 Rear Jets	3-4	Up to 4000
G2-34	1 Front / 4 Rear Jets	5-6	Up to 4000
G2-35	1 Front / 5 Rear Jets	7-8	2000-3000
G2-303	0 Front / 3 Rear Jets	3-4	Up to 4000
G2-304	0 Front / 4 Rear Jets	5-6	Up to 4000
G2-305	0 Front / 5 Rear Jets	7-8	2000-3000
G2-306	0 Front / 6 Rear Jets	9-10	2000-3000





G0 - 1/4" Penetrator Nozzles

The GO-series Penetrator nozzles are made of high-grade steel and feature a black oxide finish for extended life. The GO series nozzles have a 1/4" FPT connection with three-to-six rear facing jets and front jet to blast through blockages. The standard 15-degree rear-facing jets help penetrate through obstructions at pump pressures up to 4000 PSI, ranging from 3 to 10 GPM. GO-series nozzles are in-stock ready for your specially-tailored needs.

Specifications

Rear jet angle: 15° Diameter: 3/4" Length: 1" Weight: .06 lbs. Made in the USA.

Part #	Jet Description	GPM	PSI
G0-13	1 Front / 3 Rear Jets	3-4	Up to 4000
G0-14	1 Front / 4 Rear Jets	5-6	Up to 4000
G0-15	1 Front / 5 Rear Jets	7-8	2000-3000
G0-16	1 Front / 6 Rear Jets	9-10	2000-3000





G7 - 1/4" Radial Bullet Nozzles

G7-series Radial Bullet nozzles, manufactured in the USA, exhibit high-grade steel with a black oxide finish for an extended lifespan. The Radial Bullet nozzle is designed for general cleaning and efficient debris removal for pump pressures up to 4000 PSI, ranging from 3 to 10 GPM. The G7 series Radial Bullet nozzles have a 1/4" FPT connection and three-to-six rear-facing jets, dependent on GPM. Each nozzle can be ordered with or without an optional front jet. G7-series nozzles are in-stock ready for your specially-tailored needs.

Specifications

Rear jet angle: 30° or 40° Diameter: 3/4" Length: 1" Weight: .05 lbs. Made in the USA.

Part #	Jet Description	Rear Jet Degree	GPM	PSI
G7-33	1 Front / 3 Rear Jets	30°	3-4	Up to 4000
G7-34	1 Front / 4 Rear Jets	30°	5-6	Up to 4000
G7-35	1 Front / 5 Rear Jets	30°	7-8	2000-3000
G7-36	1 Front / 6 Rear Jets	30°	9-10	2000-3000
G7-45	1 Front / 5 Rear Jets	40°	7-8	2000-3000
G7-46	1 Front / 6 Rear Jets	40°	9-10	2000-3000
G7-303	0 Front / 3 Rear Jets	30°	3-4	Up to 4000
G7-304	0 Front / 4 Rear Jets	30°	5-6	Up to 4000
G7-306	0 Front / 6 Rear Jets	30°	9-10	2000-3000

G9 - 1/4" Mustang Hex Nozzles

G9-series Mustang Hex nozzles were designed to exact specifications to the popular hex nozzle used on Mustang lateral jet machines. The hex is manufactured using high-grade steel with a black oxide finish for extended life. The G9 series nozzle, equipped with a 1/4" FPT connection, is great for general pipe cleaning with its three-to-six 40-degree rear jets with a front jet for penetrating blockages using pump pressures up to 4000 PSI, ranging from 3 to 10 GPM. G9-series nozzles in-stock ready for your specially-tailored needs.

Specifications Rear jet angle: 40° Diameter: 3/4"" Length: 5/8" Weight: .03 lbs. Made in the USA.				
Part #	Jet Description	GPM	PSI	
G9-43	1 Front / 3 Rear Jets	3-4	Up to 4000	
G9-46	1 Front / 6 Rear Jets	7-10	2000-3000	

G5 - 3/8" Penetrator Nozzles

The G5-series Penetrator nozzles are made of high-grade steel and feature a black oxide finish for extended life. The G5 series nozzles have a 3/8" FPT connection with three-to-six rear facing jets and front jet to blast through blockages. The standard 15° rear-facing jets add greater thrust to help penetrate through obstructions at pump pressures up to 3000 PSI, ranging from 3 to 10 GPM. G5-series nozzles are in-stock ready for your specially-tailored needs.

Specificati Rear jet an Diameter: Length: 1 1 Weight: .1 Made in th	ngle: 15° .950″ L/8″ 1 lbs.			
Part #	Jet Description	GPM	PSI	
G5-13	1 Front / 3 Rear Jets	3-4	2000-3000	
G5-14	1 Front / 4 Rear Jets	5-6	2000-3000	
G5-15	1 Front / 5 Rear Jets	7-8	2000-3000	
G5-16	1 Front / 6 Rear Jets	9-10	2000-3000	

G8 - 3/8" Radial Button Nozzles

Using the same principles as the G7-series nozzles, the G8 Radial Bullet nozzle is designed for general cleaning and efficient debris removal for pump pressures up to 4000 PSI, ranging from 3 to 10 GPM. The G8 series Radial Bullet nozzles have a 3/8" FPT connection and three-to-six rear-facing jets, dependent on GPM. Each nozzle can be ordered with or without an optional front jet, though both are ready, in-stock for your specially-tailored needs.

Specifications

Rear jet angle: 30° or 40° Diameter: 7/8″ Length: 1 1/16″ Weight: .08 lbs. Made in the USA.

Part #	Jet Description	Rear Jet Degree	GPM	PSI
G8-33	1 Front / 3 Rear Jets	30°	3-4	Up to 4000
G8-34	1 Front / 4 Rear Jets	30°	5-6	Up to 4000
G8-35	1 Front / 5 Rear Jets	30°	7-8	2000-3000
G8-36	1 Front / 6 Rear Jets	30°	9-10	2000-3000
G8-46	1 Front / 5 Rear Jets	40°	7-8	2000-3000
G8-303	0 Front / 3 Rear Jets	30°	3-4	Up to 4000
G8-304	0 Front / 4 Rear Jets	30°	5-6	Up to 4000
G8-306	0 Front / 5 Rear Jets	30°	7-8	2000-3000
G6-406	0 Front / 6 Rear Jets	40°	9-10	2000-3000
G8-403	0 Front / 3 Rear Jets	40°	3-4	Up to 4000



RT-3 - 3/8" Typhoon Rotating Nozzle

RT-3 Typhoon rotating nozzle features stainless steel construction in the nozzle body and rotating drum. The RT-3 has six replaceable rear-facing 30° orifices and three 60° replaceable orifices in the rotator drum.

The RT-3 is an excellent nozzle for de-scaling and cutting grease, calcium and root fibers from a pipe's inner walls. Available with a 3/8" FPT connection, the RT-3 is available in 18 - 25 GPM, using up to 3000 PSI pump pressure. Requires use of a nozzle extention. Replacement jet orifices are available.



1/2" Penetrator Nozzle

F1-Series Penetrator nozzle is manufactured using high-grade heat-treated steel construction with a black oxide finish, which together will insure a long-lasting life for the end-user.

The Penetrator has six rear-facing 45° jets and has a front base-tip jet to aid in blasting through blockages, as well as general cleaning needs. Using a 1/2" FPT connection, the Penetrator can generate up to 4000 PSI pump pressure at 8 to 25 GPM.

pressure at						
Specification Rear jet an Diameter: 1 Length: 3 1 Weight: .25 Made in th	gle: 45° 1 1/8″ /8″ 5 lbs.					
Part #	FPT	Description	Rear Jet Degree	GPM	PSI	
F1-115	1/2"	Penetrator	45°	8 to 15	Up to 4000	
F1-125	1/2"	Penetrator	45°	15 to 25	2000-3000	

1/2" Penetrator Lance Tip Nozzle

F1-Series Penetrator Lance Tip nozzle is manufactured using high-grade heat-treated steel construction with a black oxide finish, which together will insure a long-lasting life for the end-user.

The Penetrator Lance Tip has six rear-facing 45° jets and has a front base-tip jet to aid in blasting through blockages. The Penetrator Lance Tip also features four side-body jets to impact grease, soap and scale build-up on pipe walls. Using a 1/2" FPT connection, the Penetrator can generate up to 4000 PSI pump pressure at 8 to 25 GPM.

Specifications Rear jet angle: 45° Diameter: 1 1/8″ Length: 3 1/8″ Weight: .25 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
F1-1115	1/2"	Lance Tip Penetrator	45°	8 to 15	Up to 4000
F1-1125	1/2"	Lance Tip Penetrator	45°	15 to 25	2000-3000

1/2" Ellipse Nozzle

Ellipse nozzle features high-grade heat-treated steel construction, insuring a long-lasting product life. This nozzle has six replaceable rear orifices and a front penetrator orifice, which is also replaceable.

This design, featuring a 1/2'' FPT connection, offers greater thrust and penetration through grease and hard soap and can easily maneuver around offset joints. Replacement jet orifices are available.

Specifications

Part #

AT136160

Rear jet angle: 15° Diameter: 1 3/4″ Length: 2 1/4″ Weight: 1 lb. Made in the USA.

FPT

1/2"



1/2" Button Style Short Nozzle

F5-series Button style short nozzle range is constructed using high-grade, heat-treated steel with a black oxide finish for extended nozzle life. The F5 has six 45° rear jets and is available with or without a front jet. The F5 is great for general purpose cleaning in laterals and small diameter mainline pipe. Using a 1/2″ FPT connection, F5 series is available in 8 to 35 GPM and up to 4000 PSI pump pressure. Requires use of a nozzle extention.

Specifications

Rear jet angle: 45° Diameter: 1 1/8″ Length: 1 5/8″ Weight: .25 lbs. Made in the USA.





Part #	FPT	Description	Rear Jet Degree	GPM	PSI
F5-315	1/2"	Button Short w/ Front Jet	45°	8 to 15	Up to 4000
F5-315N	1/2"	Button Short w/o Front Jet	45°	8 to 15	Up to 4000
F5-325	1/2"	Button Short w/ Front Jet	45°	15 to 25	2000-3000
F5-325N	1/2"	Button Short w/o Front Jet	45°	15 to 25	2000-3000
F5-380	1/2"	Button Short w/ Front Jet	45°	30 to 35	2000-3000
			_		

1/2" Typhoon Nozzle

RT-4 Typhoon rotating nozzle features stainless steel construction in the nozzle body and rotating drum. The RT-4 has six replaceable rear-facing 30° orifices and three replaceable 60° orifices in the rotator drum.

The RT-3 is an excellent nozzle for de-scaling and cutting grease, calcium and root fibers from a pipe's inner walls. Available with a 1/2" FPT connection, the RT-3 is available in 20 - 35 GPM, using up to 2500 PSI pump pressure. Replacement jet orifices are available.

Specifications Rear jet angle Diameter: 1 3 Length: 2 5/8 Weight: 1 lb. Made in the U	:: 30° /8″ ″				0	•
Part #	FPT	11	Description	Rear Jet Degree	GPM	PSI
RT-4	1/2"		Typhoon	30°	20 to 35	Up to 2500

3/4" Radial Bullet Nozzle

E0-3 series Radial Bullet nozzle showcases high-grade heat-treated steel construction with a black oxide finish, which together extend product life. The E0-3 is equipped with six rear jets, available in either 18° or 35° varieties, and is available with or without a front jet. The E0-3 is great for forward thrust, while maintaining a consistent jet stream to clean pipe wall for 6" to 15" pipe. The E0-3 comes with a 3/4" FPT connection and is available for cleaning machines up to 40 GPM and up to 3000 PSI pump pressure.

Specifications

Rear jet angle: 18 or 35° Diameter: 1 5/8″ Length: 2 1/4″ Weight: .63 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
E0-335	3/4"	Radial Bullet (1 Front/6 Rear) 18°	35 to 40	Up to 1800
E0-335V	3/4"	Radial Bullet (1 Front/6 Rear	Vac) 18°	35 to 40	Up to 3000
E0-3A35	3/4"	Radial Bullet (1 Front/6 Rear) 35°	35 to 40	Up to 1800
E0-3A35V	3/4"	Radial Bullet (1 Front/6 Rear	Vac) 35°	35 to 40	Up to 3000
E0-3N35	3/4"	Radial Bullet (6 Rear)	18°	35 to 40	Up to 1800
E0-3N35V	3/4"	Radial Bullet (6 Rear Vac)	18°	35 to 40	Up to 3000
E0-3NA35	3/4"	Radial Bullet (6 Rear)	35°	35 to 40	Up to 1800
E0-3NA35V	3/4"	Radial Bullet (6 Rear Vac)	35°	35 to 40	Up to 3000

3/4" Radial Vortex Nozzle

E0-4 series Radial Vortex nozzle showcases high-grade heat-treated steel construction with a black oxide finish, which together extend product life. The E0-4 is equipped with six rear jets staggered at 18° and 24° with one front jet. The E0-4 is great for forward thrust, while maintaining a consistent jet stream to clean pipe wall for 6" to 15" pipe. The E0-4 comes with a 3/4" FPT connection and is available for cleaning machines up to 40 GPM and up to 3000 PSI pump pressure.

Specifications

Rear jet angle: 18° and 24° Diameter: 1 5/8″ Length: 2 1/4″ Weight: .63 lbs. Made in the USA.

Part #	FPT
E0-435	3/4"
E0-435V	3/4"

DescriptionRear Jet DegreeRadial Vortex (1 Front/ 6 Rear18°/24°Radial Vortex (1 Front/ 6 Rear Vac) 18°/24°

GPM PSI

Up to 1800

Up to 3000

35 to 40

35 to 40

3/4" Penetrator Nozzle

E2-3 Penetrator series nozzles are made of high-grade, heat-treated steel construction with black oxide finish for prolonged nozzle life. Each E2-3 has six rear 12° jets and one front-facing jet. The E2-3 is great for general pipe cleaning and breaking through clogs and plugged up pipe, most specifically in 6" to 18" pipe. Standard 3/4" FPT connection, and available for sewer cleaning machines up to 40 GPM and up to 3000 PSI pump pressure.

<i>Specification</i> Rear jet ang Diameter: 1 Length: 3 7/ Weight: .83 Made in the	le: 12° 5/8″ 8″ lbs.		6		
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
E2-335	3/4"	Penetrator (1 Front/6 Rear)	12°	35 to 40	Up to 1800
E2-335V	3/4"	Penetrator (1 Front/6 Rear)	12°	35 to 40	3000

3/4" Penetrator Lance Tip Nozzle

E2-13 Penetrator Lance Tip series nozzles are made of high-grade, heat-treated steel construction with black oxide finish for prolonged nozzle life. Each E2-13 has six rear 12° jets, four side jets and one front-facing jet. The E2-13 is great for general pipe cleaning and breaking through clogs and plugged up pipe, most specifically in 6" to 12" pipe. Standard 3/4" FPT connection, and available for sewer cleaning machines up to 40 GPM and up to 3000 PSI pump pressure.

Specification Rear jet ang Diameter: 1 Length: 3 7/3 Weight: .83 Made in the	le: 12° 5/8″ 8″ Ibs.		6		
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
E2-1335	3/4"	Lance Tip Penetrator	12°	35 to 40	Up to 1800
E2-1335V	3/4"	Lance Tip Penetrator	12°	35 to 40	3000

3/4" Typhoon Nozzle

RT-6 Typhoon nozzle has a stainless steel nozzle body and rotator drum with six replaceable 30° rear orifices and three 60° replaceable orifices in the rotator drum. An excellent nozzle for de-scaling and cutting grease, calcium and root fibers from pipe walls in 6" to 18' pipe walls. The RT-6, equipped with a 3/4" FPT connection, is available for sewer cleaning machines up to 55 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available. Requires use of a nozzle extention.

Specifications

Rear jet angle: 30° Diameter: 2"



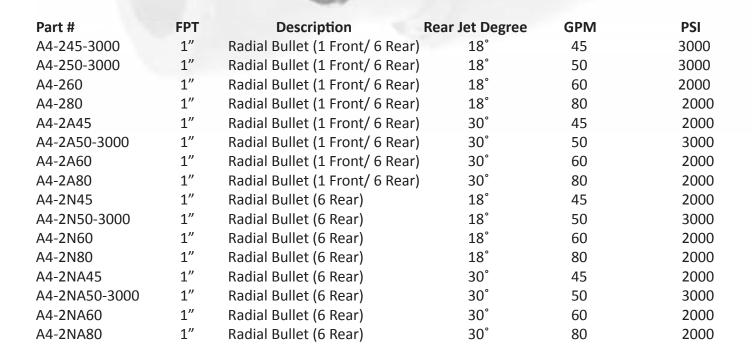
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
RT-6651	3/4"	Typhoon	30°	55	1675 to 2000
RT-6652	3/4"	Typhoon	30°	55	1675 to 2000

1" Radial Bullet Nozzle

A4-2 Radial Bullet series nozzle is constructed of high-grade, heat-treated steel and finished with a black oxide coating, which together ensure prolonged nozzle life. The A4-2 nozzle has six rear-facing jets a either 18° or 30° and is available with or without a front jet. The A4-2 nozzle is great for general pipe cleaning in 6" to 18" pipe. The A4-2, featuring a 1" FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure.

Specifications

Rear jet angle: 18° or 30° Diameter: 17/8″ Length: 33/4″ Weight: 1.2 lbs. Made in the USA.



1" Radial Vortex Nozzle

A5-1 series Radial Vortex nozzle showcases high-grade heat-treated steel construction with a black oxide finish, which together extend product life. The A5-1 is equipped with six rear jets staggered at 18° and 24° with one front jet. The A5-1 is great for forward thrust, while maintaining a consistent jet stream to clean pipe wall for 6" to 18" pipe. The E0-4 comes with a 1" FPT connection and is available for cleaning machines up to 80 GPM and up to 3000 PSI pump pressure.

Specification Rear jet an Diameter: 1 Length: 3 3 Weight: .63 Made in th	gle: 18° and 2 1 7/8″ /4″ 3 lbs.	24°			
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
A5-145	1″	Radial Vortex (1 Front/ 6	Rear) 18°/24°	45	2000
A5-150-300	00 1"	Radial Vortex (1 Front/ 6	Rear) 18°/24°	50	3000

1" Penetrator Nozzle

60

80

2000

2000

Radial Vortex (1 Front/ 6 Rear) 18°/24°

Radial Vortex (1 Front/ 6 Rear) 18°/24°

1″

1″

A5-160

A5-180

A3-1 Penetrator nozzle showcases high-grade heat-treated steel construction with a black oxide finish, which together extend product life. The A3-1 is equipped with six rear 12° jets with one front jet. The A3-1 is great for general pipe cleaning and breaking through clogs and plugged up 6" to 18" pipe. The A3-1 is available for sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure.

Specification Rear jet angle Diameter: 2" Length: 4 1/2 Weight: 1.6 lk Made in the N	e: 12° ″ os.		6		
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
A3-145	1″	Penetrator (1 Front/ 6 Rear)	12°	35 to 45	1675 to 2000
A3-150	1″	Penetrator (1 Front/ 6 Rear)	12°	50	1675 to 2000
A3-160	1″	Penetrator (1 Front/ 6 Rear)	12°	60 to 65	1675 to 2000
A3-160-3000	1″	Penetrator (1 Front/ 6 Rear)	12°	60	3000
A3-180	1″	Penetrator (1 Front/ 6 Rear)	12°	80	1675 to 2000

1" Penetrator Lance Tip Nozzle

A3-12 Penetrator Lance Tip nozzle showcases high-grade heat-treated steel construction with a black oxide finish, which together extend product life. The A3-12 is equipped with six rear 12° jets, one front jet and four side jets. The A3-12 is great for breaking up and penetrating through blockages in 6" to 12" pipe. The A3-12, featuring a 1" FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure.

Specification Rear jet angl Diameter: 2" Length: 4 1/2 Weight: 1.6 I Made in the	le: 12° , 2″ lbs.				
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
A3-1260	1″	Lance Tip Penetrator	12°	60 to 65	1675 to 2000
A3-1280	1″	Lance Tip Penetrator	12°	80	1675 to 2000

1" Ellipse Nozzle

Ellipse nozzle features high-grade heat-treated steel construction with a black oxide finish, insuring a longlasting product life. This nozzle has eight replaceable rear orifices and a front penetrator orifice, which is also replaceable.

This design offers greater thrust and penetration through grease and hard soap and can easily maneuver around offset joints. Designed for use in 6" to 12" pipe, the Ellipse, featuring a 1" FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 2500 PSI pump pressure.

Specifications Rear jet angle: 15° Diameter: 2 3/8" Length: 3" Weight: 2.7 lbs. Made in the USA. **Rear Jet Degree** Description GPM PSI Part # FPT AT136150 1″ Ellipse 15° 60 2000 15° AT136150-80 1″ Ellipse 80 2500

1" Typhoon Nozzle

Typhoon nozzle is manufactured using stainless steel for the nozzle body and rotating drum. This nozzle has six 24° rear replaceable orifices and three 60° replaceable orifices in the rotating drum. This is an excellent nozzle for de-scaling and cutting grease, calcium and root fibers from the inner walls of 8" to 24" pipe. The Typhoon is available for sewer cleaning machines up to 80 GPM and up to 2000 PSI pump pressure. Replacement jet orifices are available. Requires use of a nozzle extention.

<i>Specificatio</i> Rear jet an Diameter: 2 Length: 3 3 Weight: 1.7 Made in th	gle: 24° 2″ 5/8″ 75 lbs.				
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
RT-8651	1″	Typhoon	24°	50 to 65	1250 to 1675
RT-8652	1″	Typhoon	24°	50 to 65	1675 to 2000
RT-8802	1″	Typhoon	24°	80	1675 to 2000

1" Sanitary Nozzle

Sanitary nozzle has a high-grade, heat-treated steel body with a black oxide coating, which coupled-together ensures a long lifespan for the nozzle. The Sanitary nozzle has six rear jets at either 15° or 30°, depending on the type. The nozzles was designed for general cleaning of sand, small stones and scum in 6" to 18" pipe. The Sanitary nozzle, featuring a 1" FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 2000 PSI pump pressure.

Specification Rear jet ang Diameter: 2 Length: 3 1/ Weight: 1.7 Made in the	le: 15° or 30° 1/8″ ′2″ 5 lbs.				
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
U29343-A2	1″	Sanitary	30°	60	1675 to 2000
U29343-B2	1″	Sanitary	30°	50	1675 to 2000
U29343-C	1″	Sanitary	30°	80	1675 to 2000
U44233-A2	1"	Sanitary	15°	60	1675 to 2000
U44233-B2	1"	Sanitary	15°	50	1675 to 2000

1" Steel Sand Nozzle

Steel Sand nozzle features high-grade heat-treated steel construction with a black oxide finish, insuring a longlasting product life. This nozzle has six rear-facing 12° jets and two front jets to blast through obstructions such as sand, organics and grease in 6" to 15" pipe.

This nozzle, featuring a 1" FPT connection, is designed for use in sewer cleaning machines up to 80 GPM and up to 2000 PSI pump pressure.

Specifications

Rear jet angle: 12° Diameter: 2″ Length: 2 7/8″ Weight: 1 lb. Made in the USA.





Part #	FPT	Description	Rear Jet Degree	GPM	PSI
B5-180	1″	Steel/Sand	12°	80	1675 to 2000
U40585	1"	Steel/Sand	12°	52	2000
U44234	1″	Steel/Sand	12°	60	2000

1 1/4" Radial Bullet Nozzle

B1-series Radial Bullet nozzle is made of high-grade, heat-treated steel, finished with a black oxide coating, which coupled together ensures a long lasting nozzle. The B-1 range exhibits six rear jets at 18° or 35° and with or without a front jet.

The Radial Bullet, using a 1 1/4" FPT connection, is designed for general pipe cleaning in 6" to 24" pipe and is available for sewer cleaning machines up to 80 GPM and up to 2000 PSI pump pressure.

Specifications Rear jet angle: 12' Diameter: 2" Length: 2 7/8" Weight: 1 lb. Made in the USA

Part #	FPT	Description	Rear Jet Degree	GPM	PSI
B1-15	1 1/4"	Radial Bullet w/ Front Jet 1F/6R	18°	50	2000
B1-18	1 1/4"	Radial Bullet w/ Front Jet 1F/6R	18°	80	2000
B1-1N5	1 1/4"	Radial Bullet w/o Front Jet 6Rea	r 18°	50	2000
B1-1N8	1 1/4"	Radial Bullet w/o Front Jet 6Rea	r 18°	80	2000
B1-25	1 1/4"	Radial Bullet w/ Front Jet 1F/6R	35°	50	2000
B1-28	1 1/4"	Radial Bullet w/ Front Jet 1F/6R	35°	80	2000
B1-2N5	1 1/4"	Radial Bullet w/o Front Jet 6Rea	r 35°	50	2000
B1-2N8	1 1/4"	Radial Bullet w/o Front Jet 6Rea	r 35°	80	2000

1" Tungsten Carbide General Purpose Nozzle

Tungsten Carbide General Purpose nozzle has a high-grade, heat-treated steel body with a black oxide coating, which coupled-together ensures a long lifespan for the nozzle. This nozzle, featuring a 1" FPT connection, has six rear-facing 30° tungsten carbide orifices, which do a great job of cleaning out any solids at the bottom of 8" to 30" pipe.

The tungsten carbide orifices maintain water jet flow calibration and efficiency for the life of the nozzle. This equates to efficient use of water, energy and time while maintaining a water collection or sewer system. It is available for sewer cleaning machines up to 80 GPM and up to 2500 PSI pump pressure. Replacement jet orifices are available.

<i>Specifications</i> Rear jet angle: 30° Diameter: 3 1/4″ Length: 6 3/4″ Weight: 5.8 lbs.				
Part # FPT	Description	GPM	PSI	
U58929BFB 1"	General Purpose	60	2000	
U58929BJB 1"	General Purpose	80	2000	
U58929BJC 1"	General Purpose	80	2500	

1" Tungsten Carbide Sanitary Nozzle

Tungsten Carbide Sanitary Nozzle is manufactured using high-grade, heat-treated steel coupled with a zinc oxide coating, which together help prolong nozzle life. This high performance nozzle has six replaceable tungsten steel carbide orifices, which help mantain top flow and calibration of the water jets for the life of the nozzle. This equals efficient use of water, energy and time in maintaining a sewage or water collection system.

A great nozzle choice for general cleaning of 4" to 18" pipe. Manufactured in both 15° and 30° styles, the nozzle, featuring a 1" FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 2500 PSI pump pressure. Replacement jet orifices are available.

			0	0	
Specification	s				
Rear jet angle	e: 15° or 30°			land the	44
Diameter: 2 1	L/8"				0
Length: 4 1/4					
Weight: 2.4 II			No.	-	
Made in the	USA.				
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
U58756BDC	1″	Tungsten Carbide Sanitary	30°	60	2000
U58756BEB	1"	Tungsten Carbide Sanitary	30°	55	2000
U58756BFB	1″	Tungsten Carbide Sanitary	30°	60	2000
U58756BFC	1"	Tungsten Carbide Sanitary	30°	60	2500
U58756BGB	1″	Tungsten Carbide Sanitary	30°	65	2000
U58756BJB	1″	Tungsten Carbide Sanitary	30°	80	2000
U58756BJC	1″	Tungsten Carbide Sanitary	30°	80	2500
U60306BFB	1″	Tungsten Carbide Sanitary	15°	60	2000
U60306BFC	1″	Tungsten Carbide Sanitary	15°	60	2500
U60306BGB	1"	Tungsten Carbide Sanitary	15°	65	2000
U60306BJB	1"	Tungsten Carbide Sanitary	15°	80	2000

1" Tungsten Carbide Penetrator Nozzle

Tungsten Carbide Penetrator Nozzle is manufactured using high-grade, heat-treated steel coupled with a zinc oxide coating, which together help prolong nozzle life. This high performance nozzle has six replaceable tungsten steel carbide orifices and one front replaceable tungsten steel carbide orifice, which helps mantain top flow and calibration of the water jets for the life of the nozzle. This equals efficient use of water, energy and time in maintaining a sewage or water collection system.

A great nozzle for unblocking plugged 4" to 18" pipe containing sand, dirt or grease. Manufactured in both 15° or 30° configurations; the nozzle, featuring a 1" FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 2500 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 15° or 30° Diameter: 2 1/8" Length: 4 1/4" Weight: 2.4 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
U58927BDB	1″	Tungsten Carbide Penetrator	30°	50	2000
U58927BDC	1″	Tungsten Carbide Penetrator	30°	50	2500
U58927BFB	1"	Tungsten Carbide Penetrator	30°	60	2000
U58927BFC	1″	Tungsten Carbide Penetrator	30°	60	2500
U58927BGC	1″	Tungsten Carbide Penetrator	30°	65	2500
U58927BJB	1″	Tungsten Carbide Penetrator	30°	80	2000
U60308BFB	1″	Tungsten Carbide Penetrator	15°	60	2000
U60308BGB	1″	Tungsten Carbide Penetrator	15°	65	2000
U60308BJB	1″	Tungsten Carbide Penetrator	15°	80	2000

1" Tungsten Carbide Sand Nozzle

Tungsten Carbide Sand Nozzle is manufactured using high-grade, heat-treated steel coupled with a zinc oxide coating, which together help prolong nozzle life. This high performance nozzle has six 15° or 30° replaceable tungsten steel carbide orifices and two outward-angled front replaceable tungsten steel carbide orifices, which help mantain top flow and calibration of the water jets for the life of the nozzle. This equals efficient use of water, energy and time in maintaining a sewage or water collection system.

A great nozzle for blasting through sand, dirt and gravel build-ups and blasting the particles back to the manhole in 4" to 18" pipe. This nozzle, featuring a 1" FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 2500 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 15° or 30° Diameter: 2 1/8" Length: 5" Weight: 2.5 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
U58926BJB	1″	Tungsten Carbide Sand	30°	80	2000
U58926BJC	1″	Tungsten Carbide Sand	30°	80	2500
U60307BFB	1″	Tungsten Carbide Sand	15°	60	2000
U60307BFC	1″	Tungsten Carbide Sand	15°	60	2500
U60307BGB	1″	Tungsten Carbide Sand	15°	65	2000
U60307BHC	1″	Tungsten Carbide Sand	15°	70	2500
U60307BIC	1″	Tungsten Carbide Sand	15°	75	2500
U60307BJB	1″	Tungsten Carbide Sand	15°	80	2000
U60307BJC	1″	Tungsten Carbide Sand	15°	80	2500

3/4" Hustler Grenade Nozzle

3/4" Hustler Grenade Nozzle is manufactured using high-grade, heat-treated steel coupled with a zinc oxide coating, which together help prolong nozzle life. This premium, high-performance nozzle is of European design, consisting of eight rear alternating replaceable jets at 10° and 30°. This nozzle is available with or without a front replaceable jet. All replaceable jet orifices are manufactured from tungsten carbide, which maintains top flow, efficiency and calibration of the water jetting for the life of the nozzle. This equals efficient use of water, energy and time in maintaining a sewage or water collection system.

This nozzle, featuring a 3/4" FPT connection, is extemely effective in cleaning moderate sand, soil and organics in 6" to 15" pipe. It is readily available for sewer cleaning machines up to 50 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 10° or 30° Diameter: 2 3/8″ Length: 4 1/2″ Weight: 3.5 lbs. Made in the USA.

Part #	FPT	Description	Rear Jet Degree	GPM	PSI
UEZ40.075.30	3/4"	Hustler Grenade	10° and 30°	30	3000
UEZ40.075.32	3/4"	Hustler Grenade w/Front Jet	10° and 30°	35	2000
UEZ40.075.40	3/4"	Hustler Grenade	10° and 30°	40	2000
UEZ40.075.40FJ	3/4"	Hustler Grenade w/Front Jet	10° and 30°	40	2000
UEZ40.075.50	3/4"	Hustler Grenade	10° and 30°	50	3000
UEZ40.075.65	3/4"	Hustler Grenade	10° and 30°	65	2000

1" Hustler Grenade Nozzle

1" Hustler Grenade Nozzle is manufactured using high-grade, heat-treated steel coupled with a zinc oxide coating, which together help prolong nozzle life. This premium, high-performance nozzle is of European design, consisting of ten rear alternating replaceable jets at 10° and 30°. This nozzle is also available with or without a front replaceable jet. All replaceable jet orifices are manufactured from tungsten carbide, which maintains top flow, efficiency and calibration of the water jetting for the life of the nozzle. This equals efficient use of water, energy and time in maintaining a sewage or water collection system.

This nozzle, featuring a 1" FPT connection, is extemely effective in cleaning moderate sand, soil and organics in 6" to 21" pipe. It is readily available for sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 10° and 30° Diameter: 3 1/8" Length: 6" Weight: 8.8 lbs.

Part #	FPT	Description	Rear Jet Degree	GPM	PSI
UEZ40.100.50	1″	Hustler Grenade	10° and 30°	50	3000
UEZ40.100.60	1″	Hustler Grenade	10° and 30°	60	2000
UEZ40.100.80	1″	Hustler Grenade	10° and 30°	80	2000
UEZ40.100A	1″	Hustler Grenade	10° and 30°	65	2000
UEZ40.100FJ	1″	Hustler Grenade w/Front Jet	10° and 30°	60	2000
UEZ40.100FJ.50	1″	Hustler Grenade w/Front Jet	10° and 30°	50	3000
UEZ40.100FJ.80	1″	Hustler Grenade w/Front Jet	10° and 30°	80	2000

3/4" and 1" Hustler Chisel Nozzles

3/4" and 1" Hustler Chisel range of nozzles are manufactured using high-grade, heat-treated steel coupled with a zinc oxide coating, which together help prolong nozzle life. This premium, high-performance chisel-point nozzle is of European design, consisting of one leading tip, six rear, and four front-facing (five for the UEZ60.100L) replaceable tungsten carbide jet orifices. This nozzle is available with or without a front replaceable jet for both nozzle body sizes. All replaceable jet orifices are manufactured from tungsten carbide, which maintains top flow, efficiency and calibration of the water jetting for the life of the nozzle. This equals efficient use of water, energy and time in maintaining a sewage or water collection system.

The UEZ60.075 3/4" FPT and the UEZ60.100 1" FPT Hustler Chisel Nozzels are great at penetrating through all kinds of blockages with its sharp edges. The four front piercing jets will open root masses, grease plugs and even sand and gravel blockages. The UEZ60.100L 1" FPT Hustler Chisel Nozzel is massive for a reason; the extra weight and length allow it to stick to the bottom of the pipe for best effective cleaning and penetration of blockages. Replacement jet orifices are available.

Specifications

		UEZ60.075	UEZ60.100	UE	Z60.100L
Front jet angle:		1 @ 0°, 3 @ 15°	1 @ 0°, 3 @ 15°	1@	0° <i>,</i> 4 @ 15°
Rear jet angle:		25°	25°		25°
Diameter:		1 1/2"	2"		2 3/4"
Length:		3 1/4"	3 5/8"		7 1/2"
Weight:		1.15 lbs.	1.5 lbs.		5.75 lbs.
Recommended Pipe	Size	4" to 12"	6" to 15"	e	5" to 18"
Made in the USA.					
Part #	FPT	Description	on	GPM	PSI
UEZ60.075.30	3/4"	Hustler Chisel (4 Fr	ont/ 6 Rear)	30	3000
UEZ60.075.40	3/4"	Hustler Chisel (4 Fr	ont/ 6 Rear)	40	2000
UEZ60.075.50	3/4"	Hustler Chisel (4 Fr	ont/ 6 Rear)	50	3000
UEZ60.100.40	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	40	3000
UEZ60.100.50	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	50	3000
UEZ60.100.55	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	55	3000
UEZ60.100.60	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	60	2000
UEZ60.100.60.3	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	60	3000
UEZ60.100.65	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	65	3000
UEZ60.100.65.2	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	65	2000
UEZ60.100.80	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	80	2000
UEZ60.100.80.3	1″	Hustler Chisel (4 Fr	ont/ 6 Rear)	80	3000
UEZ60.100L	1″	Hustler Chisel (Larg	e) (5 Front/ 6 Rear)	60	2000
UEZ60.100L-50	1″	Hustler Chisel (Larg	e) (5 Front/ 6 Rear)	50	3000
UEZ60.100L-65	1″	Hustler Chisel (Larg	e) (5 Front/ 6 Rear)	65	2000
UEZ60.100L-80	1″	Hustler Chisel (Larg	ge) (5 Front/ 6 Rear)	80	2000

3/4" and 1" Hustler Chisel Nozzles



UEZ60.075

UEZ60.100

UEZ60.100L

3/4" and 1" Hustler Standard Cleaning Nozzles

3/4" and 1" Hustler Standard Cleaning Nozzle range is manufactured using high-grade, heat-treated steel coupled with a zinc oxide coating, which together help prolong nozzle life. This premium, high-performance nozzle is of European design, consisting of six (3/4") and eight (1") alternating replaceable 30° jets. This nozzle is available with or without a front replaceable jet for both nozzle body sizes. All replaceable jet orifices are manufactured from tungsten carbide, which maintains top flow, efficiency and calibration of the water jetting for the life of the nozzle. This equals efficient use of water, energy and time in maintaining a sewage or water collection system.

The nozzle range, which features both 3/4" and 1" FPT connection, is extemely effective in cleaning out solids in 4" to 15" pipe for the 3/4" nozzle and 4" to 18" pipe for the 1" nozzle range. It is readily available for sewer cleaning machines up to 50 GPM and up to 3000 PSI pump pressure for the 3/4" range and up to 80 GPM and up to 3000 PSI. Replacement jet orifices are available. Made in the USA.

Specifications

Rear jet angle: 30° Diameter: 1 1/2" (3/4") 1 7/8" (1") Length: 2 1/2" (3/4") 3 1/2" (1")

Part #	FPT	Description	Rear Jet Degree	GPM	PSI
UEZ30.075.30	3/4"	Hustler Cleaning	30°	30	3000
UEZ30.075.40	3/4"	Hustler Cleaning	30°	40	3000
UEZ30.075.50	3/4"	Hustler Cleaning	30°	50	3000
UEZ30.100	1"	Hustler Cleaning	30°	60	2000
UEZ30.100.50	1"	Hustler Cleaning	30°	50	3000
UEZ30.100.65	1"	Hustler Cleaning	30°	65	3000
UEZ30.100.65.2	1"	Hustler Cleaning	30°	65	2000
UEZ30.100.80	1"	Hustler Cleaning	30°	80	2000
UEZ30.100.80.3	1"	Hustler Cleaning	30°	80	3000
		and literative			



UEZ30.100 Series

3/4" Aluminum Grease Nozzle

3/4" FPT Aluminum Grease nozzle is machined from T6061-T6 aluminum for strength and lightness in order to impact pipe blockages. Designed to exert great velocity, the Aluminum Grease nozzle is able to flush obstacles out of the pipe to a manhole for removal.

This nozzle has six replaceable 17° rear jets and one replaceable front jet to help penetrate problematic blockages in 6" to 15" pipe. It is readily available for sewer cleaning machines up to 40 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.



1" Aluminum Grease Nozzle

1" FPT Aluminum Grease nozzle is machined from T6061-T6 aluminum for strength and lightness in order to impact pipe blockages. Designed to exert great velocity, the Aluminum Grease nozzle is able to flush obstacles out of the pipe to a manhole for removal.

This nozzle has six replaceable 17° rear jets and one replaceable front jet to help penetrate problematic blockages in 6" to 15" pipe. It is readily available for sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 17° Diameter: 2 1/2″ Length: 8″ Weight:2 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
B8-360	1″	Aluminum Grease (1 Front/ 6 Rear)	17°	50 to 65	1675 to 2000
B8-380	1″	Aluminum Grease (1 Front/ 6 Rear)	17°	80	1675 to 2000

#10 Aluminum Storm Nozzle

#10 Aluminum Storm nozzle was originally designed for use in Vactor[®] style machines, and it's nickname, '#10,' came from its great ability to clean 10" and larger storm and sanitary pipe of sand and detergent build-up. #10 is manufactured from cast aluminum with eight rear replaceable stainless steel jet orifices at 24°.

#10 works best in 10" to 18" pipe on sew er cleaning machines up to 80 GPM and up to 3000 PSI pump pressure.

Replacement jet orifices are available.

Specifications Rear jet angle: 24° Diameter: 4.25″ Length: 5″ Weight: 3.5 lbs. Made in the USA.						
Part #	FPT	Description	Rear Jet Degree	GPM	PSI	
U36058A260	1"	#10 Aluminum Storm	24°	50 to 65	1675 to 2000	
U36058A280	1"	#10 Aluminum Storm	24°	80	1675 to 2000	
U36058A350	1″	#10 Aluminum Storm	24°	50 to 65	3000	

Aluminum Sand and Sludge Nozzle

Aluminum Sand and Sludge Nozzle has been redesigned for greater cleaning efficiency and casting integrity. The nozzle's cast aluminum body has 16 machined rear jet ports along with a single jet orphic port machined into the front nose of the nozzle.

A hardened steel jet is screwed into the machined rear ports in various configurations, depending upon the conditions and size of the pipe being cleaned. For cleaning 8" to 18" pipe, and the removal of sand, sludge and organics for general pipe cleaning conditions, advises to set the outer rear jets at 24" and plug off the inner ports.

Specifications

Rear jet angles: 24° Diameter: 4 3/8″ Length: 6″ Weight: 4.1 lbs.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
E5-235	3/4"	Aluminum Sand 1Front/8Rear	24°	35 to 40	Up to 2000
A1-160	1″	Aluminum Sand 1Front/8Rear	24°	50 to 65	1675 to 2000
A1-180	1″	Aluminum Sand 1Front/8Rear	24°	80	1675 to 2000

Dual-Degree Aluminum Sand and Sludge Nozzle

In the case of moderate to heavy cleaning in 8" to 24" pipe, it is recommended to operate this nozzle with the dual-degree configuration of 17° and 24°. This gives the nozzle 16 total rear-facing jets, blasting and removing sand, sludge and organics with a minimal amount of passes to complete the pipe cleaning operation. This nozzle's single front jet blasts through sediment in the pipe with a stream of water, allowing for a cleaner passage for the nozzle.

This nozzle is manufactured for use on sewer cleaning machines up to 80 GPM, and up to 3000 PSI pump pressure. Replacement jets are available. Made in the USA.

Specifications

Rear jet angles: 17° and 24° Diameter: 4 3/8″ Length: 6″ Weight: 4.1 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
A9-11260	1″	Dual Aluminum Sand	17° and 24°	50 to 65	1675 to 2000
A9-11280	1″	Dual Aluminum Sand	17° and 24°	80	1675 to 2000

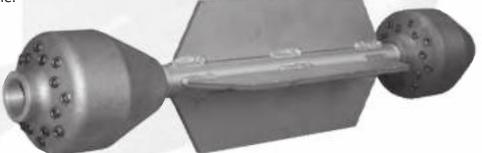
Tandem Bomb Nozzle

Tandem Bomb nozzle with 1" FPT connection is just that; the front nozzle is the eight rear-jet #A1-1 Aluminum Sand Nozzle and the rear nozzle is the #A9-112 Duel-Degree Aluminum Sand Nozzle. The two nozzles are connected by a D0-6 nozzle skid assembly.

Together, there are 24 rear dual-degree removable jet orifices, which are centered in the pipe by the connecting nozzle skid assembly. This nozzle duo is used to clean heavy sand and sludge deposits from 10" to 30" pipe and culverts. Manufactured for use by sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 17° and 24° Diameter: 7" Length: 29" Weight: 18.3 lbs. Made in the USA.



Part #	FPT	Description Rear J	let Degree GPM	PSI
A9-1228	1″	Tandem Bomb (1 Front/8R/8Rear)	24° 80	1675 to 2000
A9-1326	1″	Tandem Bomb (1 Front/8R/16Rear) 17	°/24° 60 to 65	1675 to 2000
A9-1328	1″	Tandem Bomb (1Front/8R/16Rear) 17	°/24° 80	1675 to 2000

Blue Streak Nozzle

Blue Streak nozzle utilizes "Heavy Duty" steel nozzle construction. The Blue Streak is a very efficient pipeline cleaning nozzle that outperforms many heavy-duty sludge and sand nozzles on the market. The Blue Streak is equipped with ten rear, 15° and 20° tungsten carbide removable jet orifices and one optional front tungsten carbide removable jet orifice which maintains top flow and calibration of the water jet and makes efficient use of water, energy and time in maintaining a water collector sewer system. Used for heavy duty pipe cleaning up to 36", the Blue Streak, equipped with a 1 FPT connection, is available for sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 15° and 20° Diameter: 4" Length: 7" Weight: 9 lbs. Made in the USA.

Part #FPTUE48226-601"UE48226-801"

Description Blue Streak Blue Streak

Rear Jet Degree	GPM	PSI
15° and 20°	60	2000
15° and 20°	80	2000

1/2" Bulldozer Nozzle

1/2" FPT Bulldozer nozzle is also commonly known as 'The Contractor Nozzle.' It is the little brother to the 3/4" Bulldozer nozzle, but still maintains a heavy duty steel construction, this heavy penetrating nozzle concentrates its cleaning to the bottom of the pipe to create a path through heavy build ups of sand sludge and larger solids. It has five rear removable tungsten carbide orifices at 12° and a removable front carbide jet orifice to penetrate blockages. The Bulldozer performs well in pipe sizes up to 12" in diameter. The tungsten carbide jet orifices maintain top flow and calibration of the water jet action for the life of the nozzle which equals efficient use of water, energy and time in maintaining a water collection or sewer system. It is available for sewer cleaning machines up to 25 GPM and up to 4000 PSI pump pressure. Replacement jet orifices are available.

Specifications Rear jet angle: 12° Diameter: 17/8" Length: 10" Weight: 4.15 lbs. Made in the USA.			6ª		
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
UE48208-20/2000	1/2"	Bulldozer	12°	20	2000
UE48208-20/4000	1/2"	Bulldozer	12°	20	4000
UE48202-25/3000	1/2"	Bulldozer	12°	25	3000

3/4" Bulldozer Nozzle

3/4" FPT Bulldozer nozzle is also commonly known as 'The Contractor Nozzle.' It is smaller in size than the Bulldozer nozzle, but still maintains a heavy duty steel construction, this heavy penetrating nozzle concentrates its cleaning to the bottom of the pipe to create a path through heavy build ups of sand sludge and larger solids. It has five rear removable tungsten carbide orifices at 12° and a removable front carbide jet orifice to penetrate blockages. The Bulldozer performs well in pipe sizes up to 18" in diameter. The tungsten carbide jet orifices maintain top flow and calibration of the water jet action for the life of the nozzle which equals efficient use of water, energy and time in maintaining a water collection or sewer system. It is available for sewer cleaning machines up to 50 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

<i>Specifications</i> Rear jet angle: 12° Diameter: 2 3/8″ Length: 12 1/2″ Weight: 9.1 lbs. Made in the USA.					
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
UE48212-40/2000	3/4"	Bulldozer	12°	40	2000
UE48212-40/3000	3/4"	Bulldozer	12°	40	3000
UE48212-50/3000	3/4"	Bulldozer	12°	50	3000

1" & 1 1/4"Bulldozer Nozzle

1" FPT Bulldozer nozzle is also commonly known as the contractor nozzle. With a heavy duty steel construction, this heavy penetrating nozzle concentrates its cleaning to the bottom of the pipe to create a path through heavy build ups of sand sludge and larger solids. It has five rear removable tungsten carbide orifices at 12° and a removable front carbide jet orifice to penetrate blockages. The Bulldozer performs well in pipe sizes up to 30" in diameter. The tungsten carbide jet orifices maintain top flow and calibration of the water jet action for the life of the nozzle which equals efficient use of water, energy and time in maintaining a water collection or sewer system. It is available for sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 12° Diameter: 27/8″ Length: 143/8″ Weight: 12.5 lbs. Made in the USA.

Part #	FPT	Description	Rear Jet Degree	GPM	PSI
UE48216-60	1"	Bulldozer	12°	60	Up to 2000
UE48216-80	1"	Bulldozer	12°	80	2000
UE48220-60	1 1/4"	Bulldozer	12°	60	2000
UE48220-80	1 1/4"	Bulldozer	12°	80	2000

Intruder Nozzle

Intruder nozzle, available in 3/4" and 1" FPT connection, is a missile-shaped heat-treated steel alloy nozzle equipped with built-in skids, helping center the nozzle in pipe and with all manufacturing elements intended to extend nozzle life. Used to create a path through debris in the bottom of pipe such as root masses, grave, sand, soap and grease and anything else a heavy duty nozzle application is needed for. Performs best in pipe up to 18" diameter. The three replaceable rear jets are set at a 12° angle and are of stainless steel construction. These can be upgraded to tungsten carbide for longer life. The front nozzle has a front jet to pierce through debris. This is a very efficient nozzle and is available for sewer cleaning machines up to 80 GPM at up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specification Rear jet angle Diameter: 3 3 Length: 14 1/ Weight: 15 lb Made in the	e: 12° 3/4″ /4″ os.	6			A
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
IT-7560	3/4"	Intruder	12°	60	2000
IT-7580	3/4"	Intruder	12°	80	2000
IT-160	1″	Intruder	12°	60	2000
IT-160-3000	1″	Intruder	12°	60	3000
IT-180	1″	Intruder	12°	80	2000
		Petee No	zzle		

Petee nozzle, equipped with a 1" FPT connection, is made for heavy-duty pipe cleaning. Made of steel, it has reinforced welded runners to center the nozzle in the middle of the pipe. Twelve rear dual-degree 17° and 24° removable jet orifices provide 360° of powerful water-jet streams to fully clean any heavy debris in the bottom of a pipe such as sand, gravel, and heavy organic build-up. Has optional removable front jet orifice when penetrating and breaking up debris is needed. Performs best in 10" to 36" storm and sanitary pipes. For sewer cleaning machines up to 80 GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

<i>Specificatio</i> Rear jet ang Diameter: 5 Length: 18″ Weight: 11.0 Made in the	le: 17° and 24° 3/4″ 5 lbs.				
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
P100256	1″	Petee	17° and 24°	60 to 65	1675 to 2000
P100280	1"	Petee	17° and 24°	80	1675 to 2000

Big Pete Nozzle

Big Pete, equipped with a 1" FPT connection, is the big brother to the Petee nozzle and is also made for heavy duty pipe cleaning with steel construction and reinforced welded runners to help keep this nozzle centered in a pipe. Twelve rear dual degree 17° and 24° removable jet orifices provide 360° of powerful water jet streams to fully clean any heavy debris in the bottom of pipe such as sand, gravel, and heavy organic build-up. Has optional removable front jet orifice when penetrating and breaking up debris is needed. Performs best in 18" to 60" storm and sanitary pipes. For sewer cleaning machines up to 80GPM and up to 3000 PSI pump pressure. Replacement jet orifices are available.

Specifications

Rear jet angle: 17° and 24° Diameter: 7 1/2″ Length: 23″ Weight: 28 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
BP-301256	1″	Big Pete	17° and 24°	55 to 60	1675 to 2000
BP-301280	1″	Big Pete	17° and 24°	80	1675 to 2000

Jet Paks

Part #G2-Kit

1/8" 4000 PSI (1 lb.)

Nozzle Group Total of 8 Nozzles - Includes all eight 1/8" nozzles we offer: One each of the following part number: G2-33, G2-34, G2-35, G2-36, G2-303, G2-304, G2 -305 and G2-306.

Part #G25-34

1/4" 3-4 GPM @ 4000 PSI (1 lb.)

Nozzle Group Total of 8 Nozzles - Includes eight of our best selling nozzles: One each of the following part number: G7-33 & G7-303 and 2 each of: G0-13, G7-43 and G7-403.

Part #G25-56

1/4" 5-6 GPM @ 4000 PSI (1 lb.)

Nozzle Group Total of 8 Nozzles - Includes eight of our best selling nozzles: One each of the following part numbers: G7-44, G7-304 and 2 each of: G0-14, G7-34 and G7-404.

Part #G25-710

1/4" 7-10 GPM @ 4000 PSI (1 lb.)

Nozzle Group Total of 8 Nozzles - Includes eight of our best selling nozzles: One each of the following part numbers: G7-35, G7-46, G7-305, G7-406, G0-16, G7-306 and (2) G0-15.

Part #G375-34

3/8" 3-4 GPM @ 4000 PSI (1 lb.)

Nozzle Group Total of 6 Nozzles -Includes all six of the best selling nozzles: One each of the following part numbers: G5-13, G8-33, G8-303, G8-43 and (2) G8-403.

Part #G375-56

3/8" 5-6 GPM @ 4000 PSI (1 lb.)

Nozzle Group Total of 6 Nozzles -Includes all six of the best selling nozzles: One each of the following part numbers: G5-14, G8-34, G8-304, G8-404 and (2) G8-44.

Part #G375-710

3/8" 7-10 GPM @ 4000 PSI (1 lb.)

Nozzle Group Total of 6 Nozzles - Includes all six of the best selling nozzles: One each of the following part numbers: G5-15, G8-305, G8-45, & G8-405 and (2) G8-35.

Part #F815-Kit

1/2" 8-15 GPM @ 4000 PSI (1.75 lbs.)

Nozzle Group Total of 6 Nozzles - Includes six of the best selling nozzles: Two each of the following part numbers: F1-115, F1-1115 and F5-315.

Part #F1525-Kit

1/2" 8-15 GPM @ 4000 PSI (1.75 lbs.)

Nozzle Group Total of 6 Nozzles - Includes six of the best selling nozzles: Two each of the following part numbers: F1-125, F1-1125 and F5-325.

Nozzle Kits

Part # U58-12-60-2000

3/4" Carbide Nozzle Kit - 60 GPM @ 2000 PSI (12.5 lbs.)

Includes all 3 of the best selling nozzles - One each of the following part numbers: U58927CFB, U58756CFB and U58926CFB.

Part # UEZ-12-50-3000

3/4" Hustler Nozzle Kit - 50 GPM @ 3000 PSI (12.5 lbs.)

Includes all 3 of the best selling nozzles - One each of the following part numbers: UEZ30.075.50, UEZ40.075.50 and UEZ60.075.50.

Part # UEZ-16-65-2000

1" Hustler Nozzle Kit - 65 GPM @ 2000 PSI

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

Part # UEZ-16-50-3000

1" Hustler Nozzle Kit - 50 GPM @ 3000 PSI

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

Part # U58-16-80-2500

1" Carbide Nozzle Kit - 80 GPM @ 2500 PSI

Includes all 4 of the best selling nozzles - One each of the following part numbers: U58927BJC, U58756BJC, U58929BJC and U589926BJC.

Part # U58-16-60-2000

1" Carbide Nozzle Kit - 60 GPM @ 2000 PSI

Includes all 4 of the best selling nozzles - One each of the following part numbers: U58927BFB, U58756BFB, U58929BFB and U58926BFB.

Part # U58-16-80-3000

1" Carbide Nozzle Kit - 80 GPM @ 3000 PSI

Includes all 4 of the best selling nozzles - One each of the following part numbers: U58927BJB, U58756BJB, U58929BJB and U58926BJB

Part # E0-12-35-1800

3/4" Steel Nozzle Kit - 35 to 45 GPM @ 1800 PSI (7.5 lbs)

Includes all 6 of the best selling nozzles - One each of the following part numbers: E0-335, E0-3A35, E0-3N35, E0-3NA35, E0-435 and E2-335.

Part # E0-12-35-3000

3/4" Steel Nozzle Kit - 35 GPM @ 3000 PSI (7.5 lbs.)

Includes all 6 of the best selling nozzles - One each of the following part numbers: E0-335V, E0-3A35V, E0-3N35V, E0-3NA35V, E0-435V and E2-335V.

Part # AB-16-50-3000

1" Steel Nozzle Kit - 50 GPM @ 3000 PSI (8.5 lbs.)

Includes all 6 of the best selling nozzles - One each of the following part numbers: A3-150-3000, A4-250-3000, A4-2A50-3000, A4-2N50-3000, 4-2NA50-3000 and C0-155V.

Part # AB-16-60-2000

1" Steel Nozzle Kit - 60 GPM @ 2000 PSI (8.5 lbs)

Includes all 6 of the best selling nozzles -1 each of the following part numbers: A3-160, A3-1260, A4-260, A4-2N60, A4-2A60 and A4-2NA60.

Tube Style Nozzle Skid Extension

Tube Style Nozzle Skid Extension is made of heavy duty steel construction. It is used to keep a nozzle stable in the pipeline and helps prevent nozzle reversing in underground storm or sewer pipes. Also helps prevent nozzle from entering laterals. To be used between the nozzle and hose.

Specifications

Diameter: 2 1/2" Length: 15" Weight: 15 lbs. Made in the USA.

 Part #
 NPT

 E01
 3/4"

 A02
 1"

 A022
 1 1/4"

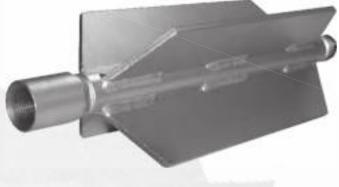
Description Nozzle Skid Extension Nozzle Skid Extension Nozzle Skid Extension

Weight 9.5 lbs. 11.6 lbs. 13 lbs.

Finned Style Nozzle Skid Extension

Finned Style Nozzle Skid Extension is manufactured using heavy duty steel tubing with four steel fins welded to it. The extension, when attached between the nozzle and the hose, keeps the nozzle centered in a pipe during the cleaning process and also prevents nozzle wear and improves performance for the nozzle due to increased cleaning efficiency and the fact it will not wander into a lateral.

There are two fin sizes available for each hose diameter. This allows the user to order the correct skid for the nozzle being used to keep it from dragging on the bottom of the pipe, which can cause premature wear.



Available in 3/8", 1/2", 3/4", 1" and 1 1/4" NPT connections. Made in the USA.

Part #	FPT	Length	Skid Dia.	Fin Size	Weight
D0-4A	3/8"	7"	3"	1 1/4"	3.1 lbs.
D0-5B	1/2"	14"	3 3/4"	1 1/2"	5 lbs.
D0-5	3/4"	17"	6"	2 1/2"	10 lbs.
D0-5A	3/4"	14 1/2"	4″	1 1/2"	6 lbs.
D0-6	1″	17 1/2"	6 1/4"	2 1/2"	11 lbs.
A0-6A	1″	14 3/4"	4 1/4"	1 1/2"	8 lbs.
D0-8	1 1/4"	17"	6 3/4"	2 1/2"	13 lbs.
D0-8A	1 1/4"	14 1/2"	4 3/4"	1 1/2"	7.5 lbs.

Six-Wire Proover Nozzle Skid Extension

Six-Wire Proover Nozzle Skid Extention is a heavy duty steel tube surrounded by six steel rounded runners that help center the nozzle in the pipeline that is being cleaned.

This skid extension also prevents nozzle wear and improves performance of the nozzle and its cleaning efficiency. As well, the skid extention prevents the nozzle from entering laterals. To be used between the nozzle and hose.



Available in 1/2", 3/4", and 1" NPT connections. Made in the USA.

Part #	FPT	Description	Length	Skid Dia.	Weight
UE6950450	1/2"	Proover for 4" Line	14 1/2"	3 1/2"	4.75 lbs.
UE6950475	3/4"	Proover for 4" Line	15″	3 1/4"	4.75 lbs.
UE69504	1″	Proover for 4" Line	15″	3 1/4"	4.75 lbs.
UE6950675	3/4"	Proover for 6" Line	14 1/2"	5 3/4"	5.10 lbs.
UE69506	1″	Proover for 6" Line	14 1/2"	5 3/4"	5.10 lbs.
UE6950875	3/4"	Proover for 8" Line	17"	7 1/2"	5.15 lbs.
UE69508	1″	Proover for 8" Line	17"	7 1/2"	5.16 lbs.
UE6951075	3/4"	Proover for 10" Line	18 1/4"	9 1/4"	5.75 lbs.
UE69510	1″	Proover for 10" Line	18 1/4"	9 1/4"	5.75 lbs.
UE6951275	3/4"	Proover for 12" Line	18 1/4"	11 1/4"	6.35 lbs.
UE69512	1″	Proover for 12" Line	18 1/4"	11 1/4"	6.35 lbs.
UE6951575	3/4"	Proover for 15" Line	22 5/8"	12 1/2"	7 lbs.
UE69515	1″	Proover for 15" Line	22 5/8"	12 1/2"	7 lbs.

SUPREME SAW BLADES

2" x .156" tempered spring steel 44-47 HRC



CONCAVE

SPIRAL



	<u>STANDARD</u>		
PART # DESCRIPTION WT	PART # DESCRIPTION WT	PART# DESCRIPTION WT	
7600-4 4" SPIRAL 1 LBS	7600C-4 4" CONCAVE 1 LBS	7600F-4 4" FLAT 1 LBS	
7600-6 6" SPIRAL 2 LBS	7600C-6 6" CONCAVE 2 LBS	7600F-6 6" FLAT 2 LBS	
7600-8 8" SPIRAL 3 LBS	7600C-8 8" CONCAVE 3 LBS	7600F-8 8" FLAT 3 LBS	
7600-10 10" SPIRAL 5 LBS	7600C-10 10" CONCAVE 5 LBS	7600F-10 10" FLAT 5 LBS	
7600-12 12" SPIRAL 6 LBS	7600C-12 12" CONCAVE 6 LBS	7600F-12 12" FLAT 6 LBS	
7600-15 15" SPIRAL 7 LBS	7600C-15 15" CONCAVE 7 LBS	7600F-15 15" FLAT 7 LBS	
7600-18 18" SPIRAL 8 LBS	7600C-18 18" CONCAVE 8 LBS	7600F-18 18" FLAT 8 LBS	
		7600F-21 21" FLAT 9 LBS	
		7600F-24 24" FLAT 11 LBS	
	<u>CARBIDE</u>		
7600-8C 8" SPL W/CARBIDE	7600C-8C 8" CNC W/CARBIDE	7600F-6C 6" FLAT W/CARBIDE	
7600-10C 10" SPL W/CARBIDE	7600C-10C 10" CNC W/CARBIDE	7600F-8C 8" FLAT W/CARBIDE	
7600-12C 12" SPL W/CARBIDE	7600C-12C 12" CNC W/CARBIDE	7600F-10C 10" FLAT W/CARBIDE	
7600-15C 15" SPL W/CARBIDE	7600C-15C 15" CNC W/CARBIDE	7600F-12C 12" FLAT W/CARBIDE	
7600-18C 18" SPL W/CARBIDE	7600C-18C 18" CNC W/CARBIDE	7600F-15C 15" FLAT W/CARBIDE	
		7600F-18C 18" FLAT W/CARBIDE	
		7600F-21C 21" FLAT W/CARBIDE	
		7600F-24C 24" FLAT W/CARBIDE	
<u>C.</u>	CARBIDE & CARBIDE WEAR PADS		
7600-8CW 8" SPL W/CARB&WP	7600C-8CW 8" CNC W/CRB&WP	7600F-6CW 6" FLT W/CARB&WP	
7600-10CW 10" SPL W/CARB&WP	7600C-10CW 10" CNC W/CRB&WP	7600F-8CW 8" FLT W/CARB&WP	
7600-12CW 12" SPL W/CARB&WP	7600C-12CW 12" CNC W/CRB&WP	7600F-10CW 10" FLT W/CARB&WP	
7600-15CW 15" SPL W/CARB&WP	7600C-15CW 15" CNC W/CRB&WP	7600F-12CW 12" FLT W/CARB&WP	
7600-18CW 18" SPL W/CARB&WP	7600C-18CW 18" CNC W/CRB&WP	7600F-15CW 15" FLT W/CARB&WP	

7600F-18CW 18" FLT W/CARB&WP

Mainline Root Cutter Kits

It has been said fewer options are the key to getting a job done. Mainline Root Cutter Kits were not born out of that theory. Starting with a standard Mainline motor, you can pick the type of skids; standard, wheeled or donut and then choose the type of saw blade that you would like for your application; flat, concave or spiral to fit your needs.

The power source that drives the heavy-duty mainline root cutter system is a 5.9 c.i. high-torque, low RPM hydraulic motor. It is designed for sewer cleaning machines from 35 to 80 GPM at 900 to 2000 PSI. Its tail nozzle is available in 1" FPT. Made in the USA.

Part Number Description

950-0000C	- Complete Kit with Concave Blades - Regular Skids
950-0000CW	- Complete Kit with Concave Blades – Wheel Skids
950-0000F	- Complete Kit with Flat Blades – Regular Skids
950-0000FW	- Complete Kit with Flat Blades – Wheel Skids
950-0000W	- Complete Kit with Spiral Blades – Wheel Skids
950-0000S	- Complete Kit with Spiral Blades – Regular Skids
950-1000C 950-1000F 950-1000S 950-1000FB 950-0000CAK 950-0000NB 950-1000NB	 Complete Kit with Concave Blades & Donut Skids Complete Kit with Flat Blades & Donut Skids Complete Kit with Spiral Blades & Donut Skids Complete Kit with Flex Blades & Donut Skids Complete Kit with CAK tool Assembly – Regular Skids Complete Kit with No Blades – Regular Skids Complete Kit with No Blades - Donut Skids
950-0000FB	 Complete Kit with Flex Blades - Regular Skids



Complete kits include 6", 8", 10" and 12" blades and skid sets, motor with tail nozzle, blade hub, wrenches and tool box. (Donut skids include one front and one rear only.)

Sample Kit P/N: 950-0000C









Spiral Blade

Lateral Root Cutter Kits

Much like the Mainline Root Cutter Kits, the Lateral Kits were born out of the idea that can off er you exactly what you need, rather than fudging your way through a job with equipment that is subpar.

Like the mainline hydraulic root cutt er motors, the lateral hydraulic root cutt er motor uses the same high-torque, low RPM design. Its power source is a 1.93 c.i. hydraulic motor.

It is designed for sewer cleaning machines that operate from 35 to 80 GPM at 900 to 2000 PSI. Its tail nozzle is available in 1" FPT.

Complete kits include blade sizes 4", 6", 8" and 10" and skid sets 6", 8", 10" with skid collar, motor with tail nozzle, blade hub, wrenches and tool box. Made in the USA.

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Lateral Motor



6" Lateral Skid (Shown) Also available in 8, 10, and 12"



Flat Blade



Concave Blade



Spiral Blade

Part Number	Description
950-2000F	- Complete Kit with Flat Blades - Lateral Skids
950-2000C	- Complete Kit with Concave Blades – Lateral S
950-2000S	- Complete Kit with Spiral Blades – Lateral Skic

- oncave Blades Lateral Skids piral Blades – Lateral Skids
- Complete Kit with No Blades Lateral Skids 950-2000NB

Sample Kit P/N: 950-2000C

Root Cutter Kit Accessories

All of the Mainline and Lateral Kit parts can be ordered individually! Supreme Mainline Blades are available in 6" - 18" sizes and Supreme Lateral Blades are available in 4" - 12" varieties. Flex Blades are available in 4" - 18" sizes. CAK Tool parts are only for Mainline usage, with blades available in 5" and 7" sizes and cutter cables ranging from 6" - 30" varieties. All proudly made in the USA.



Lateral Skid Collar 950-240



Mainline Skid Assy: 6" 950-103 8" 950-104 10" 950-105 12" 950-106 15" 950-115



Mainline Motor 950-110

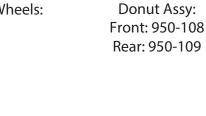


Lateral Motor 920-210

Mainline Key	#950-32
Lateral Key	#950-217
Donut Bolts	#950-26 (4)
Donut Bolts	#950-33 (1)

Con to

Mainline Skid Assy w/Wheels: 8" 950-104R 10" 950-105R 12" 950-106R 15" 950-115R





Mainline Motor W/Tail Nozzle 950-1115 (Skid) or 950-111D (Donut)



Lateral Motor W/Tail Nozzle 950-219

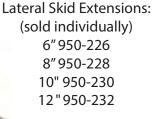


P

1" Mainline Tail Nozzle 950-100



Lateral Tail Nozzle 950-212





Mainline Thrust Bearing 950-39



Lateral Thrust Bearing 950-209



Mainline Seal Kit 950-38



Lateral Seal Kit 950-300 or 950-300YP

Flex / Curved Cutter Blades

The Flex / Curved heavy duty cutter blades are great for moderate roots, scale and grease. They are supplied three per chuck in a triangular position that allows constant contact with pipe walls as the hydraulic root cutter rotates.

This allows a complete scouring of the pipe wall. The blades are made of high tempered spring steel and heat treated to 50-54 Rockwell at 1 ¼"wide x 1/8" thick. Sizes are provided from 4"-18" in sets of three blades. The hub comes with a grade 5 bolt and nylon nut to secure the hub to the hydraulic root cutter motor shaft. Made in the USA.

Part #	Description
7700-4	4" Flex Blades (3 Pack)
7700-6	6" Flex Blades (3 Pack)
7700-8	8" Flex Blades (3 Pack)
7700-10	10" Flex Blades (3 Pack)
7700-12	12" Flex Blades (3 Pack)
7700-15	15" Flex Blades (3 Pack)
7700-18	18" Flex Blades (3 Pack)

Weight .46 lbs. .67 lbs. .87 lbs. 1.38 lbs. 1.64 lbs. 2.17 lbs. 2.17 lbs.



Cutter Blade Chuck Hub

The Chuck Hub for the three-blade cutter is made of steel and painted to prevent corrosion and rust. This hub is used to secure the three flex/curved cutter blades. It also has a pressure adjustment nut to hold the blade in the pinned taper cone.

Included is a grade-5 bolt and nylon nut to secure the hub to a hydraulic root cutter motor drive shaft. This 1" chuck hub even has two shaft connection adjustment holes to allow universal use on any manufacturers' hydraulic root cutter. The 5/8" chuck hub connection hole location is standard in the industry. Made in the USA.

Part # 960-200 960-100 **Description** 5/8" Flex Cutter Chuck 1" Flex Cutter Chuck Weight 1.5 lbs. 1.5 lbs.



5/8" and 1" Saw Blade Hub

Weight

1.1 lbs. 1.1 lbs.

The 1" and 5/8" saw blade hubs are made of steel and zink plated to resist corrosion. These hubs are used to connect flat, concave and spiral saw blades to a 1" mainline or a 5/8" lateral hydraulic root cutter shaft.

The 1" blade hub has two shaft connection adjustment holes that allow universal use on any manufacturer's root cutter drive shaft. The 5/8" blade hub connection hole is the same for all industry cutters. Each hub comes with a grade-5 bolt to secure the saw blade to the hub and another grade-5 bolt and nylon nut to secure the hub to the hydraulic root cutter. Made in the USA.

Part #	Description
950-220	5/8" Saw Blade Hub
950-107	1" Saw Blade Hub



CAK Tool Kit

The CAK Tool is an attachment tool used with a hydraulic root cutter. This tool includes an arbor hub, 3 pairs of cable cutters (choice of sizes) and a bore cutter in 5" or 7" sizes.

The arbor hub attaches to the root cutter drive shaft that securely holds the cable cutters and a front bore cutter. This is a great tool for scraping the full pipe diameter and removing grease, scale, roots or mineral deposits from the inside of a 6" to 30" pipe. Can also be used in cast iron pipe. Made in the USA.

Part #	Description
950-5000	CAK Tool Kit

Standard Kit Includes 6", 8", & 10"

CAK Tool Bore Cutter

The CAK Tool Bore Cutter blade is attached to the front of the CAK tool arbor hub. The blade is used to bore through grease or roots to allow the hydraulic root cutter and CAK cable cutters to move smoothly in a clogged pipe application. The blades manufactured from steel and powder painted to prevent rusting. Made in the USA.



Part #	Description
950-5150	5" CAK Tool Bore Cutter
950-5157	7" CAK Tool Bore Cutter

CAK Tool Cable Cutter

The CAK Tool cable cutters used in the CAK tool arbor hub are sold and used in pairs. These 1/2" cables are designed to take abuse from projectiles, offset joints or any other pipe obstruction.

This cable cutter flexibility prevents the hydraulic motor from stalling in sewer cleaning applications. The cable cutters are supplied in pairs for 6" to 30" pipe sizes. Made in the USA.

Part #	Description	Pipe Size
950-5005-4	CAK Tool Cable Cutter	4″
950-5005-6	CAK Tool Cable Cutter	6"
950-5005-8	CAK Tool Cable Cutter	8″
950-5005-10	CAK Tool Cable Cutter	10"
950-5005-12	CAK Tool Cable Cutter	12"
950-5005-16	CAK Tool Cable Cutter	16"
950-5005-18	CAK Tool Cable Cutter	18"
950-5005-20	CAK Tool Cable Cutter	20"
950-5005-24	CAK Tool Cable Cutter	24″
950-5005-30	CAK Tool Cable Cutter	30″



Tyger Tail[®] Hose

Tyger-Tail[®] hoses are used to protect sewer cleaning hose to guide hose through rough manholes and pipe edges of the transitionin to the pipe. Tyger-tail hoses are offer ed standard in 2"x36" and 3"x36" lengths and include a 24' poly rope with a looped end for easy grip.

This rope is attached to the Tyger-Tail hose collar to made installation and removal from manholes easier. Stays flexible in sub-zero temperatures

2" x 36"

3″ x 36″



3 lbs

5 lbs

Complete Assemblies Below Include: Cuff on Each End, Clamp & 24' Poly Rope

D0-69

D0-89

Includes Cuffs on Each End			
<u>Size</u>	<u>Part #</u>	<u>Weight</u>	
2" x 10'	D0-210	8.5 lbs	
2" x 20'	D0-220	17 lbs	
2" x 25'	D0-225	21.25 lbs	
2" x 30'	D0-230	25.50 lbs	
2" x 40'	D0-240	34.00 lbs	
2" x 50'	D0-250	42.50 lbs	

3″ x 10′	D0-310	16 lbs
3″ x 20′	D0-320	33 lbs
3″ x 25′	D0-325	40 lbs
3″ x 30′	D0-330	48 lbs
3″ x 40′	D0-340	64 lbs
3″ x 50′	D0-350	80 lbs

Weight

(Per Foot)

15

7

.85 lbs

1.60 lbs

Vacuum Mercury Inch – 29



Liquiu transie	i nom vat to tai
*Construction a	and excavation

*Protection for sewer cleaning hose

*Protection for televising tv cable

Size

2″

3"

Sand Traps

The Sand Trap is inserted into a manhole's down-stream channel. This creates a dam on the floor of the manhole, allowing water to pass downstream, but preventing the collecting debris from the jetting process from passing by.

Available in 6" to 18" sizes with a 24' poly rope for handling in-and-out of the manhole. Made in the USA.

Part #	Description
UST-6	6" Aluminum Sand Trap
UST-8	8" Aluminum Sand Trap
UST-10	10" Aluminum Sand Trap
UST-12	12" Aluminum Sand Trap
UST-15	15" Steel Sand Trap
UST-18	18" Steel Sand Trap

Weight 3 lbs. 7.25 lbs. 10.5 lbs. 15 lbs. 47.5 lbs. 66 lbs.



Dye Tablets and Powder

The range of Dye Tablets and Powder makes tracing water flow into and out of storm and sanitary sewers an ease. Available in either green or red tablets or powder.

The tablets are best used in laterals or where water flow is slow. Four to five tablets will dye 440 gallons of water. 200 tablets are equal to 1 lb.

Dye powder is used in larger-sized pipe and also when water monitering is greater than 200' in length. One pound of dye powder will die 120,000 gallons of water. Powder is offered in one and five-pound containers. Made in the USA.

Part #	Description	Weight
J1-OG	200 Green Tablets	1 lb.
J1-OR	200 Red Tablets	1 lb.
J2-1G	Green Powder	1 lb.
J2-5G	Green Powder	5 lbs.

Multi-Size Sewer Plug

These multi-size plugs are designed to be inflated in multiple pipe sizes. There purpose is to block the flow of water in pipes during bypass pumping, pipeline cleaning and/or pipeline inspection. Made in the USA.

Part #	Description
UE060-46	4" to 6" Plug (Min. Dia. 3.8")
UE060-610	6" to 10" Plug (Min. Dia. 5.5")
UE060-812	8" to 12" Plug (Min. Dia. 7.5")
UE060-1218	12" to 18" Plug (Min. Dia. 11")
UE060-1530	15" to 30" Plug (Min. Dia. 16.6")
UE060-2036	20" to 36" Plug (Min. Dia. 18.5")
UE060-2448	24" to 48" Plug (Min. Dia. 22.5")
UE060-3660	36" to 60" Plug (Min. Dia. 35")
UE060-4872	48" to 72" Plug (Min. Dia. 47")



Multi-Size Flow-Through Plug

These multi-size flow-through plugs are designed to be inflated in multiple pipe sizes with a bypass feature to allow fluid to pass through it by removing the center cap. With the bypass cap secured, it serves as a conventional pipe plug. Made in the USA.

Part

Description

UE070-461 4" to 8" Flow-Through Plug 6" to 10" (5.5" to 10.5") Flow-Through Plug UE070-6101 UE070-8121 8" to 12" (7" to 12.5") Flow-Through Plug UE070-12181 12" to 18" (10.5" to 18") Flow-Through Plug UE070-15301 18" to 30" (16.5" to 30") Flow-Through Plug 24" to 36" (22" to 36") Flow-Through Plug UE070-20361 36" to 48" (34" to 48") Flow-Through Plug UE070-24481 38" to 60" (46" to 60") Flow-Through Plug UE070-36601



UEM110 Hydraulic Sewage Machine

Adaptability, ease of use and end-user savings; they are three of the founding principles of what has followed since its humble beginnings back in 1989.

When developed the UEM110 12-ton hydraulic hose mending machine, designed for sizes $\frac{3}{4}$, 1" and 1 $\frac{1}{4}$ " sewer cleaning hose, it addressed a growing need in the sewer cleaning industry

There have been other mending machines in the market which have been capable of swaging male and female ends as well as hose menders onto sewer cleaning hose. However, none of these brands had the endorsement of all three of the major hose manufacturers on the market; Parker Hannifin Corp^{*}, Piranha Hose Products^{*} and Eaton Aeroquip^{*}.

Their endorsement of the UEM110 comes with the implementation and use of each company's color-coded dies and applicable color-coded fittings to properly insure the integrity of their product being properly repaired with the UEM110 system. This means that whatever the internal tube of the sewer cleaning hose is, the dies and fitting match that same color coding.

Sewer Cleaning "Thermoplastic" Hose is identified by the following: Yellow inner tube is manufactured by Piranha® Hose Products. Grey or Red inner tube is manufactured by Parker HannifinCompany . Blue inner tube is manufactured by Eaton Aeroquip® Hose Company. Purple inner tube is manufactured by Schieffer Co. International. Cream inner tube is manufactured by Unisource® (Poly-Flow). Orange inner tube is manufactured by DYNA FLEX Inc.

All sewer hose and repair fitting tools are manufactured to the National Solid Waste Management Association (formally WEMI) standards. To protect against **PERSONAL INJURY OR DEATH**, inspect and repair the sewer hose per NSWMA standards.

When using sewer cleaning hose and mending equipment, the swage and crimp equipment, including dies and fittings, MUST be of the same manufacturer. disclaims any responsibility for any hose assembly not produced in conformance with above specification. Made in the USA.

*** WARNING ***

FAILURE TO COMPLY MAY RESULT IN HOSE BURST OR COUPLING BLOWOFF WHICH MAY LEAD TO PROPERTY DAMAGE, SERIOUS INJURY OR DEATH!

*Authorized by Parker Hannifin Corp, Piranha Hose Products and Eaton Aeroquip Gator[®] Hose.



Piranha[®] Mending Equipment



To be used on the UEM110 Hydraulic Swage Machine.

CAUTION

SEWER HOSE AND REPAIR FITTINGS

All sewer hose and repair fitting tools are manufactured to National Solid Waste Management Association standards. To protect against personal death or injury, inspect and repair the sewer hose per NSWMA standards. Made in the USA.

PART NUMBER	Description	SIZE	РНОТО
UEM110P	Yellow Swage Machine Only	w/o Wheels	F
UEM110PR	Yellow Swage Machine Only	w/ Wheels	F
UEM111P	Yellow Swage Machine w/o Wheels	3/4" (2) Die Sets & (1) Pusher Plate	D, E, F
UEM111PR	Yellow Swage Machine w/ Wheels	3/4" (2) Die Sets & (1) Pusher Plate	D, E, F
UEM112P	Yellow Swage Machine w/o Wheels	1" (2) Die Sets & (1) Pusher Plate	D, E, F
UEM112PR	Yellow Swage Machine w/ Wheels	1" (2) Die Sets & (1) Pusher Plate	D, E, F
UEM113P	Yellow Swage Machine w/o Wheels	1 1/4" Machine Only	F
UEM113PR	Yellow Swage Machine w/Wheels	1 1/4" Machine Only	F
UE1050-SW	Portable Hand Swage Machine	1/2" to 1" Hose	
UE1050-HSW	Hydraulic Piranha Swage Machine	1/2" to 1 1/4" Hose	
DS08	Die Set (3000 & 4000 PSI)	1/2"	D
DPT08	Pusher Plate (3000 - 5000 PSI)	1/2"	E
UEMPH5500-Die	Die Set (5000 PSI)	1/2"	D
UE1050-D*	Die Set (SHP-8 4000 PSI)	1/2"	
DPT08*	Pusher Plate (SHP-8 4000 PSI)	1/2"	
DS12TH	Die Set (2500 PSI)	3/4"	E
DP12TH	Pusher Plate 2500 & 3000 PSI	3/4"	D
DS16TH	Die Set (2500 PSI)	1"	D
DP16TH	Pusher Plate (2500 & 3000 PSI)	1"	Е
UE1162-FP	Female Pusher	1"	
DS20TH	Die Set	1 1/4"	E
DP20TH	Pusher Plate	1 1/4"	D
UEM5050FS	Female Swivel Adapter (FxF)	1/2"	С
UE1162-H	Die Holder		







PUSHER PLATE



HYDRAULIC SWAGE MACHINE W/WHEELS

*UE1050-D -THIS DIE SET IS THE "TAPERED" VERSION, IF IT IS TO BE USED ON A HYDRAULIC SWAGE MACHINE, IT MUST BE SOLD WITH HOLDER, PART NUMBER UE1162-H. THIS IS IN THE CASE OF THE CUSTOMER WANTING TO PUT MALE ENDS ON THEIR HOSE ONLY.

*DPT08 - THIS PUSHER PLATE IS THE "TAPERED" VERSION, IF IT IS GOING TO BE USED ON A HYDRAULIC SWAGE MACHINE, IT MUST BE SOLD WITH THE HOLDER, PART NUMBER UE1162-H. THIS IS IN THE CASE OF THE CUSTOMER WANTING TO PUT MALE ENDS ON THEIR HOSE ONLY. ALL FITTINGS LISTED ON THIS PAGE ARE TO BE USED ON HOSE WITH A YELLOW INTERIOR COLOR ONLY

Parker[®] Mending Equipment

To be used on the UEM110 Hydraulic Swage Machine.



CAUTION SEWER HOSE AND REPAIR FITTINGS

All sewer hose and repair fitting tools are manufactured to National Solid Waste Management Association standards. To protect against personal death or injury, inspect and repair the sewer hose per NSWMA standards. Made in the USA.

PART NUMBER	DESCRIPTION	SIZE	ІТЕМ РНОТО
UEM110R	Swage Machine Only	w/ Wheels	F
UEM111	Swage w/o Wheels	3/4" (2) Die Sets (1) Pusher	D, E, F
UEM111R	Swage w/Wheels	3/4" (2) Die Sets (1) Pusher	D, E, F
UEM112	Swage w/o Wheels	1" (2) Die Sets (1) Pusher	D, E, F
UEM112R	Swage w/Wheels	1" (2) Die Sets (1) Pusher	D, E, F
UEM113	Swage w/o Wheels	1 1/4" (2) Die Sets (1) Pusher	D, E, F
UEM113R	Swage w/ Wheels	1 1/4" (2) Die Sets (1) Pusher	D, E, F
UEM75125-SW	Hand Swage	3/4" - 1 1/4" Fitting	
DS12TH	Die Set	3/4" 2500 & 3000 PSI	D
DP12TH	Pusher Plate	3/4" 2500 & 3000 PSI	E
DS16TH	Die Set	1" 2500 PSI	D
DP16TH	Die Set	1" 3000 PSI	D

ALL FITTINGS LISTED ON THIS PAGE ARE TO BE USED ON HOSE WITH A DARK GREY INTERIOR COLOR ONLY

(C)

FEMALE

SWIVEL R ADAPTER



DIE SET

(D)



-

(E)





HYDRAULIC SWAGE MACHINE W/WHEELS

Eaton[®] Mending Equipment

To be used on the UEM110 Hydraulic Swage Machine.



ON

SEWER HOSE AND REPAIR FITTINGS

All sewer hose and repair fitting tools are manufactured to National Solid Waste Management Association standards. To protect against personal death or injury, inspect and repair the sewer hose per NSWMA standards. Made in the USA.

PART NUMBER	DESCRIPTION	SIZE	ITEM PHOTO
UEM110	Swage Machine Only	w/o Wheels	E
UEM110R	Swage Machine Only	w/ Wheels	E
UEM111A	Swage w/o Wheels	3/4" x 2500 PSI (2) Die Sets (1) Pusher	C, D, E
UEM111A3	Swage w/o Wheels	3/4" x 3000 PSI (2) Die Sets (1) Pusher	C, D, E
UEM111A3R	Swage w/ Wheels	3/4" x 3000 PSI (2) Die Sets (1) Pusher	C, D, E
UEM111AR	Swage w/ Wheels	3/4" x 2500 PSI (2) Die Sets (1) Pusher	C, D, E
UEM112A	Swage w/o Wheels	1" (2) Die Sets (1) Pusher	C, D, E
UEM112AR	Swage w/ Wheels	1" (2) Die Sets (1) Pusher	C, D, E
UEM113A	Swage w/o Wheels	1 1/4" (2) Die Sets (1) Pusher	C, D, E
UEM113AR	Swage w/ Wheels	1 1/4" (2) Die Sets (1) Pusher	C, D, E
U44159	Hand Operated	Applies 3/4" - 1 1/4" Fittings	
U45269	Die Set	3/4" x 2500 PSI & 3000 PSI	D
U45270	Pusher Plate	3/4" x 2500 PSI & 3000 PSI	С
U44172	Die Set	1" x 2500 PSI & 3000 PSI	D
U44174	Pusher Plate	1" x 2500 PSI & 3000 PSI	С
U44173	Die Set	1 1/4" x 2500 PSI	D
U44175	Pusher Plate	1 1/4" x 2500 PSI	С

ALL FITTINGS LISTED ON THIS PAGE ARE TO BE USED ON HOSE WITH A **BLUE** INTERIOR COLOR ONLY





PUSHER PLATE



(D)

DIE SET



HYDRAULIC SWAGE MACHINE W/WHEELS



(F)

FEMALE SWIVEL

Adapter



BRUUUS

HEAVY DUTY PORTABLE SWAGE MACHINE FOR PIRANHA SEWER CLEANING HOSE

¹/₄", ³/₈", ¹/₂", ³/₄", 1", 1-1/4"

LB04-08	1/4" ·	- 1/2"	NPT MACHINE
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DPS04NPT-PS PUSHER 1/4" LB DPS06NPT-PS PUSHER 3/8" LB DPS08NPT-PS PUSHER 1/2" LB DPS12NPT-PL PUSHER 3/4" LB DPS16NPT-PL PUSHER 1" LB DPS20NPT-PL PUSHER 1-1/4" LB BB12-20 3/4" - 1-1/4" NPT MACHINE

DS04	DIE SET 1/4" LB
DS06	DIE SET 3/8" LB
DS08	DIE SET 1/2" LB
DS12	DIE SET 3/4" LB
DS16	DIE SET 1" LB
DS20	DIE SET 1-1/4" LB

DIE & PUSHER STORAGE AREA INCLUDED IN BASE OF UNIT DIE & PUSHERS SOLD SEPERATLY



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