

2017 Catalog

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

 ALWAYS FOLLOW INSTRUCTIONS AND INDUSTRY STANDARDS

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

ASPC terms are **NET 30 DAYS** for all open account customers. **At 45 days** past due, the account will be put on credit hold until unpaid balances are settled and terms will revert to C.O.D. Any order from credit hold customers will be withheld from production until the account is settled. New customers will be on C.O.D., VISA or MasterCard basis until credit is approved.

FREIGHT TERMS

Freight is prepaid and added to the invoice, except C.O.D.; then it is collected. Ground freight is paid one way on warranty repairs. ASPC does not pay for overnight or second day air for warranty repairs. If requested, these services will be billed the difference between ground and overnight or second day air service. ASPC will not accept products returned as freight collect.

There is a minimum of \$50.00 per order.

All orders verbally phoned in will be the responsibility of the recipient. ASPC will not be responsible for errors unless we receive a hard copy of the order before it is shipped. All orders can be faxed or e-mailed to Customer's Service at 1-800-691-0031 or sales@americansewerparts.com. Customer Service hours: 8:00 am to 5:00 pm CST.

Due to the large variations in shipping methods and daily surcharges, ASPC cannot provide freight quotes. We ship the most economical and beneficial method. If a delivery of merchandise by one of our shipping companies is attempted and they are unable to deliver on the 1 attempt any additional charges for re-delivery will be charged to the recipient. Any additional charges for redirecting a delivery to the wrong address that was not in error by ASPC will be charged against the original invoice.

Invoices are created the day after a shipment. The Tracking Number or Pro Number is indicated on the invoice.

ASPC is not responsible for discrepancies or damages not reported within 7 days after delivery of the product.

CLAIMS:

ASPC must be notified within 7 working days from the date of delivery of products for any damaged shipments or shortage/overage of goods. All replacement merchandise will be billed at normal terms and payment by recipient under those terms is required. For claims filed with any of our shipping companies, credit will be issued upon receipt of payment of the claim from the appropriate shipping company. When a shipment is damaged, note the damage while the driver is there. Notify ASPC immediately. Keep all of the products and the shipping containers. If possible, take digital pictures or regular photographs and send them to ASPC either by mail or e-mail to sales@americansewerparts.com. 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.

RETURNS:

ASPC will not issue call tags for any returns or repairs.

Any merchandise returned for repair requires a repair order number. This repair order number must be obtained from customer service *before* shipping to ASPC. The repair order number MUST appear on the outside of the box. Any box received without a Repair Order number will be refused delivery and returned to sender. This number is good for 15 days only.

Any merchandise returned for credit that was ordered incorrectly by the recipient, will be charged ~15% restocking fee if the items are stocked. Any items that are made to order will require ~ 25% restocking fee. Special Order Parts are not returnable. No freight credit will be issued for incorrect orders.

Any merchandise returned due to ASPC error will receive 100% credit for the merchandise and freight charges from the original order.

All returns must have an RGA (Return Goods Authorization) number issued from customer service. The RGA number must be requested within 7 working days from the date the order is received. You may request this number from customer service. You will need the part number, quantity to be returned and invoice number from the order. Only items requested for return will be credited. The RGA number must appear on the outside of the box. Any box received without an RGA number will be refused and returned to sender. This number is good for 15 days only.

Customer Service Hours: 8:00 am to 5:00 pm Central Time Zone.



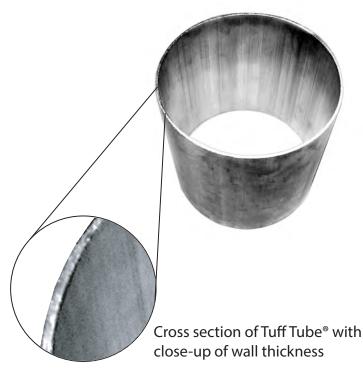
Tuff Tube® has been designed specifically for industries such as the industrial vacuum and sewer cleaning industry. The Tuff Tube vacuum tube is used to vacuum sand, pieces of pipe, grit, rocks, water, concrete, dirt and organics. This mixture is very abrasive to the interior of the vacuum tube, to say 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





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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"
S8510-00290	8" x 96"
S8510-01376	8" x 120"



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"	



Bandlock® Style Clamp

Part #	Size
U42587	6" Clamp
U42588	8" Clamp



Bandlock® Style Female "Squareback" Gasket

Part #	Size
U3500-00002A	6" Inside Gasket
U3500-00001A	8" Inside Gasket



Female Catch Basin Tubes

8" x 96"

S8500-00453H

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"

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Aquatech® Style Tubes w/ Riveted Steel Couplers

Intake Tubes

iiitak	<u> Tubes</u>
Part #	Size
AT150461A	6" x 18"
AT150461	6" x 36"
AT150471	6" x 48"
AT150475	6" x 60"
AT150481	6" x 72"
AT150482	6" x 84"
AT150483	6" x 90"
AT150485	6" x 96"
AT150491	6" x 120"
AT238005	8" x 36"
AT238005A	8" x 48"
AT238006	8" x 60"
AT238007	8" x 72"
AT238007A	8" x 78"
AT238007AB	8" x 84"
AT238008	8" x 96"
AT238009	8" x 120"



TUPPUBE

Catch Basin Tubes

Part #	Size
AT150161	6" x 36"
AT150171	6" x 48"
AT150325	6" x 60"
AT150181	6" x 72"
AT150182	6" x 78"
AT150186	6" x 96"
AT150191	6" x 120"
AT238994	8" x 48"
AT238007B	8" x 60"
AT238007C	8" x 72"
AT238010B	8" x 78"
AT238010	8" x 96"
AT238010C	8" x 120"

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





<u>Vactor[®] Style Quick Clamp</u> w/Trimline Handle

Part #	Size
U16584	8" Quick Clamp



Vac-Con® Style Quick Clamp w/Trimline Handle

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 or VC800-3203	6" x 36"
UA34763C	6" x 48"
UA34763A or VC800-3204	6" x 60"
UA34763AA or VC800-3205	6" x 72"
UA34763K	6" x 84"
UA34763E	6" x 90"
UA34763G or VC800-4930	6" x 96"
UA34763F	6" x 120"
UA25637N	8" x 12"
UA25637T	8" x 18"
UA25637Q or VC800-0262	8" x 24"
UA25637K	8" x 28"
UA25637B	8" x 30"
UA25637C or VC800-0063	8" x 36"
UA25637M or VC800-0347	8" x 48"
UA25637 or VC800-0064	8" x 60"
UA25637J	8" x 70"
UA25637D or VC800-0089	8" x 72"
UA25637R	8" x 78"
UA25637U	8" x 80"
UA25637P	8" x 82"
UA25637E or VC800-0352	8" x 84"
UA25637F	8" x 90"
UA25637A or VC800-0261	8" x 96"
UA25637V	8" x 102"
UA25637G or VC800-0133	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

<u>Catch Basin Tubes</u> <u>w/ Welded Flanges</u>



Part #	Size
UA34766	6" x 24"
UA34766D	6" x 30"
UA34766H	6" x 36"
UA34766C or VC800-5096	6" x 48"
UA34766J	6" x 60"
UA34766A	6" x 72"
UA34766B or VC800-3202	6" x 78"
UA34766G	6" x 90"
UA34766F	6" x 96"
UA34766K	6" x 120"
UA25268Q or VC800-0348	8" x 24"
UA25268A	8" x 32"
UA25268G	8" x 36"
UA25268F	8" x 42"
UA25268H or VC800-0819	8" x 48"
UA25268C or VC800-7388	8" x 60"
UA25268I	8" x 66"
UA25268D	8" x 72"
UA25268 or VC800-0065	8" x 78"
UA25268M	8" x 80"
UA25268P	8" x 82"
UA25268B	8" x 84"
UA25268E	8" x 90"
UA25268J or VC800-3579	8" x 96"
UA25268K or VC800-0448	8" x 108"
UA25268L or VC800-3529	8" x 120"

Vactor® Style Tubes w/ Riveted Steel Flanges

Intake Tubes

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



Catch Basin Tubes

Part #	Size
U34766-1	6" x 18"
U34766N	6" x 30"
U34766M	6" x 36"
U34766B	6" x 48"
U34766A	6" x 60"
U34766	6" x 78"
U34766E	6" x 84"
U34766G	6" x 90"
U34766F	6" x 96"
U34766D	6" x 120"
U25268A	8" x 32"
U25268G	8" x 36"
U25268F	8" x 42"
U25268H	8" x 48"
U25268C	8" x 60"
U25268M	8" x 72"
U25268	8" x 78"
U25268D	8" x 82"
U25268B	8" x 84"
U25268E	8" x 90"
U25268J	8" x 96"
U25268K	8" x 108"
U25268L	8" x 120"

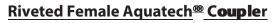
Hydro-Excavation Style Tubes



Welded Flange / Hydro Kanaflex 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)



Part #	Size
AT238007HE	8" x 72"



UA34763AAHE-8	6" x 72" Tube
	w/ 8" Flange to 6'
	w/ 8" Flange to 6' Aluminum Tube
	Reducer Fitting



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

Hydro-Excavation Style Tubes and Accessories



<u>Welded Male Bandlock® Style / Hydro Kanaflex End</u> Used on Super Products® and Guzzler® Style Machines.

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



Circular Operator Tube Style Handle

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



<u>Aluminum Weld-on Serrated</u> <u>Suction Nozzle Crown</u>

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



Steel Serrated Suction Nozzle Crown

ci sciiatea s	action Nozzie Cior
Part #	Size
U34767 or GUZ1280042	6" Steel
U23788 or GUZ1280043	8" Steel





Flange Gasket

Part #	Size
U16585	8" Rubber



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





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: 39 lbs (6") 45 lbs. (8")

Length: 71"

Water connection: 1" F.P.T. swivel
Handle adjustment: 39" Height
Replaceable Jets: 10 (6") or 12 (8")

Tube dimension: 6" or 8" Tuff Tube w/.100 wall

Connection options: 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



6" or 8" Vactor Flange, Aquatech, or Super **Products Bandlock** connection 1" F.P.T. female swivel water connection 6" or 8" O.D. x .100 Tuff Tube Adjustable Handle Splatter safety tube Rubber bump stop tube Stainless steel water ring with 10 or 12 water jets 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



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

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"

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



Part #SizeUS54101X8" x 60"US54101Y8" x 96"US54101Z8" 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



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

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'

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.

Part #	Size
VE808-12	12" x 12"
VE808-24	12" x 24"
VE808-36	12" x 36"
VE808-48	12" x 48"
VE808-72	12" x 72"
VE808-96	12" x 96"

12" Steel Catch Basin Tube



Part #	Size
VE820-36	12" x 36"
VE820-56	12" x 56"
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 #	Size
AT171230A	6" Female End
AT171240A	8" 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[®] steel ring to be used with male tube end.

Size
4" Steel Ring
6" Steel Ring
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 #	Size
AT171130-HS	6" Female Hose Coupler
AT171240-HS	8" Female Hose Coupler

Band-Lok® Style Fittings and Couplings

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

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

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 an steel female coupler for steel tubing. (Roundback)

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

70" Boom Elbow

Part #	
U27771	STD. Boom Elbow
U27771H	H.D. Boom Elbow
U27771SP	STD. Boom Elbow - w/ Mounting Blanks
U27771H-SP	H.D. Boom Elbow - w/ Mounting Blanks



Steel Female Hose End



Female Band-Lok style hose end with gasket.

Part #	Size
U42580A	3" Female Hose End
U42580	4" Female Hose End
U42581	6" Female Hose End
U42582	8" 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

Part #	Size
U53494	6" 45° Galvanized
U53490	8" 45° Galvanized

Band-Lok Adapters

emale
emale
Male



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

Rubber Flange Gasket



Vactor and Vac-Con style rubber flange gasket.

Part #	Size
U16585	8" Rubber Gasket



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

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

Transition Reducer



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

Part # Size

U35096 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 # Size

U34614 6" to 4" Reducer

90° Steel Pipe Flange



Vactor and Vac-Con 90 steel dual flange.

Part # Size

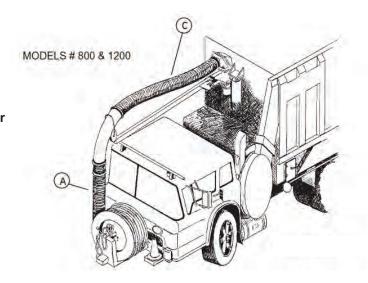
U52985 6" 90° Steel Flange U52977 8" 90° Steel Flange

Vactor[®] Style Cuffed Rubber Debris Hose

Vactor® Style Cuffed Rubber Debris Hose



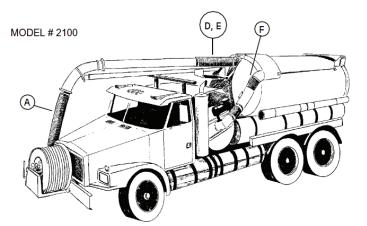
Part #	Description	Size	Letter
U44155	Cuffed Debris Hose	6" x 120"	С
U42596	Cuffed Debris Hose	6" x 60"	Α
U47392	Cuffed Debris Hose	6" x 64"	Α
U43959	Cuffed Debris Hose	8" x 102"	С
U42597	Cuffed Debris Hose	8" x 120"	С
U43958	Cuffed Debris Hose	8" x 127"	В
U42595	Cuffed Debris Hose	8" x 60"	Α
U46564	Cuffed Debris Hose	8" x 62"	D
U46564A	Heavy Duty Cuffed Debris Hose	8" x 62"	Ε
U44675	Accordion Cuffed Debris Hose	8" x 48"	D
U44675A	Heavy Duty Cuffed Debris Hose	8" x 48"	Ε
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"	Α
U54428B	Debris Hose w/ Hose Ends	8" x 60"	Α
U54428A	Debris Hose w/ Hose Ends	8" x 62"	D



Compression Joint

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

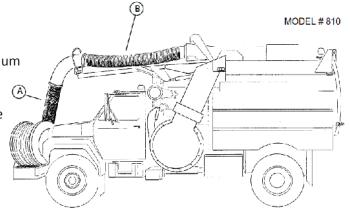




King Clamp

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 #	Size
U42592	4" King Clamp
U42593	6" King Clamp
U42594	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"	Α
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"	Α
U45804	180AR Kanaflex® Hose	8" x 62"	A or D
U43363	180AR Kanaflex® Hose	8" x 66"	

Letters correspond with truck diagrams on previous page.

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

U52763	180AR Kanaflex® Hose w/Ends	8" x 66"	Α
U52764	180AR Kanaflex® Hose w/Ends	8" x 102"	С
U52765	180AR Kanaflex® Hose w/Ends	8" x 127"	В

Power Clamp



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

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"

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 / Description
V680-0001	Vac-All® Style Swivel Ball Joint Assembly

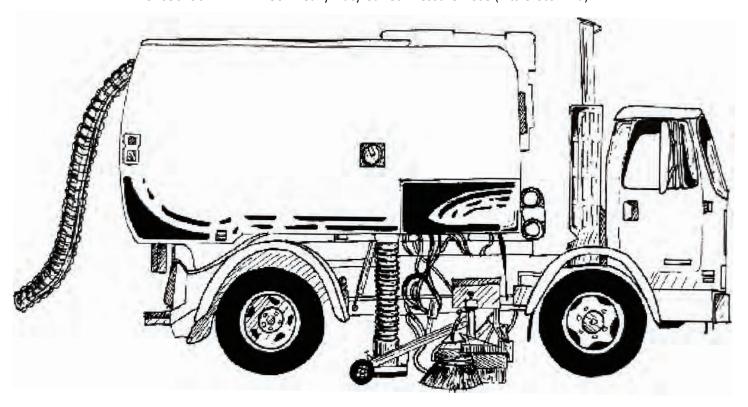


Elgin[®] Style Cuffed Rubber Debris Hose



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

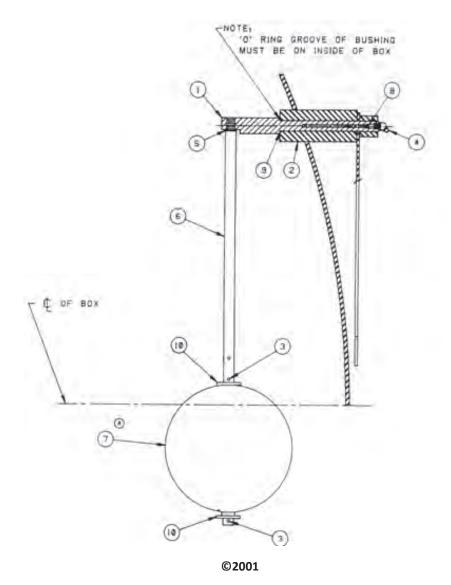


Heavy duty style debris hose used on Clean Earth® style machines.

Part # CE32030029

Size / Description 9 1/4" x 60" Horizontal Boom Hose

Float Indicator Assembly



ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
1	U37130	Shaft, Bonze 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	Fi ng, 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 # Description

S7300-01935 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

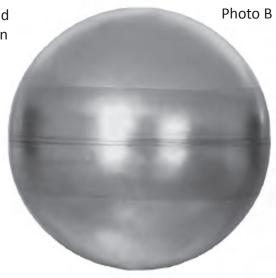
Vac-Con® type machines as a vacuum breaker in

the debris tank. (Photo B)

Made in the USA.

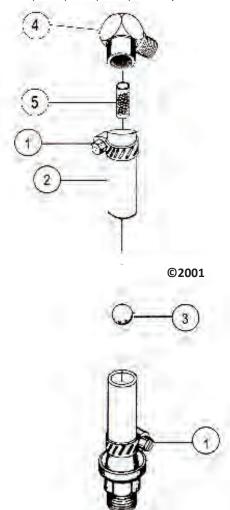


Photo A



26" and 45" Water Fill Sight Gauge Assemblies

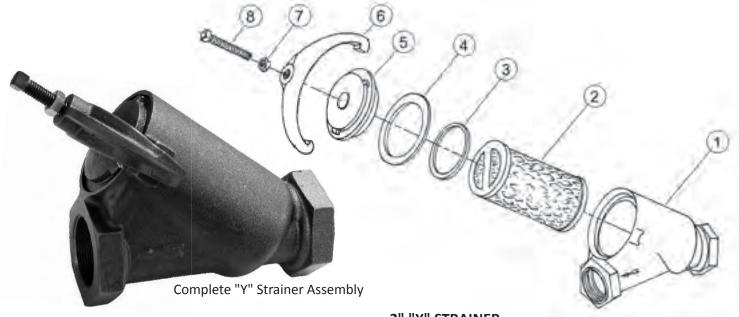
Used on Vactor® and other sewer cleaners to monitor the water availability in the water tanks. 26" For Models 2100, 810, 800, 815, 1200 / 45" For Models 400, 810E



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	U43734	Clamp, Hose Water Gauge	2
2	U41458A	PVC, 3/8" ID Clear Tube	3'
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

"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.



2" "Y	" STF	RAIN	ER
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ITEM#	PART #:	DESCRIPTION	QUANTITY
	U45797	2" Complete "Y" Strainer Assembly (12 lbs.)	
1	U46134	2" Body Only	1
2	U45803	2" Screen Only (1 lb.)	1
3	U46137	Basket Screen Gasket	1
4	U46138	2" Cap Gasket	1
5	U46136	2" Cap (1 lb.)	1
6	U46135	2" Cap Clamp (2 lbs.)	1
7	U46140	Jam Nut 1/2 x 13	1
8	U41274	Screw 1/2 x 13 x 2 3/4	1

3" "Y" STRAINER



ITEM#	PART #:	DESCRIPTION	QUANTITY
	U41279	3" Complete "Y" Strainer Assembly (24 lbs.)	
1	U41268	3" Body Only	1
2	U41280	3" Screen Only (2 lbs.)	1
3	U41272	Basket Screen Gasket	1
4	U41271	3" Cap Gasket (4" I.D. x 4 3/8" O.D.)	1
5	U41269	3" Cap (2 lbs.)	1
6	U41270	3" Cap Clamp (3 lbs.)	1
7	U41273	Jam Nut 1/2 x 13	1
8	U41274	Screw 1/2 x 13 x 2 3/4	1

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.

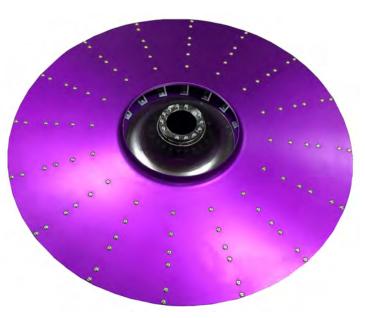
The fan assembly is also covered under a one-year warranty on materials and workmanship.

Note: 85lbs. Fan only (Skid - 15lbs.)

Made in the USA.



2100 Part # U25975 Taper Lock Part # U16056

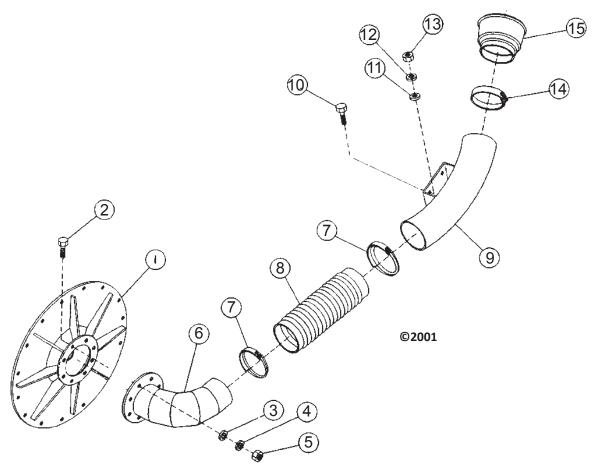


2100+ (3.25"Shaft) Part # U25975-S

Taper Lock
Part # U47801F-30

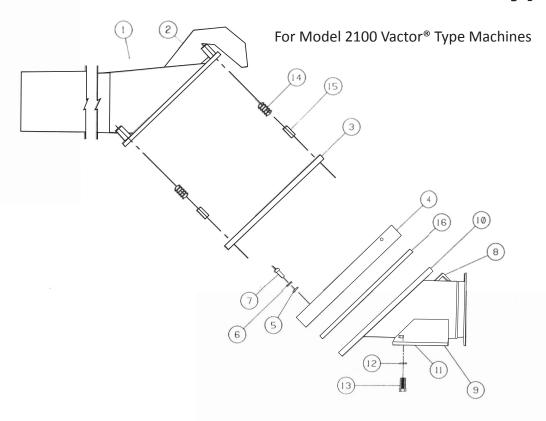
Fan Duct Installation

For Model 2100 Vactor® Type Machines



ITEM #:	PART #:	DESCRIPTION	QUANTITY
2	U16343A	Bolt - Hex Head 3/8" - 16 NC x 1" Long	8
3	U16365B	3/8" Flat Washer	8
4	U16367B	3/8" Lock Washer	8
5	U16360B	3/8" - 16 Hex Head Nut	8
6	U62565	Weldment Elbow - Lower	1
7	U70406**	Clamp	2
8	U47394-Bulk	10" Kanaflex Style Hose 16" Long - No Cuff	1
9	U62418**	Weldment Elbow - 10" x 45 Degrees	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

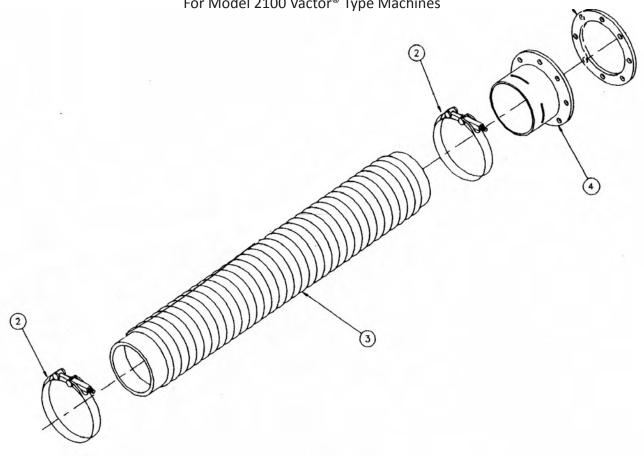
Vacuum Box Assembly (Vacuum Box Debris Inlet Assembly)



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

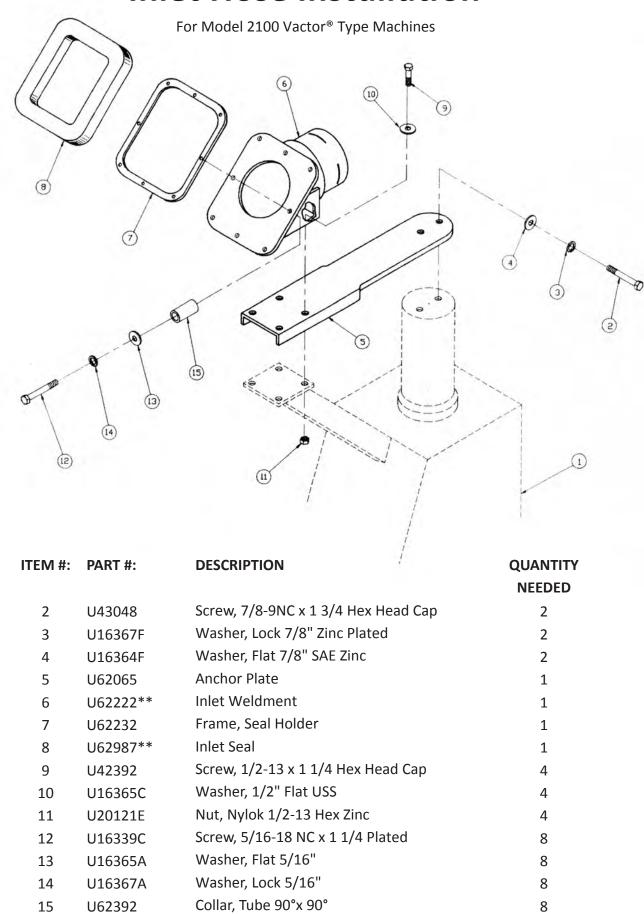
Inlet Hose Installation

For Model 2100 Vactor® Type Machines

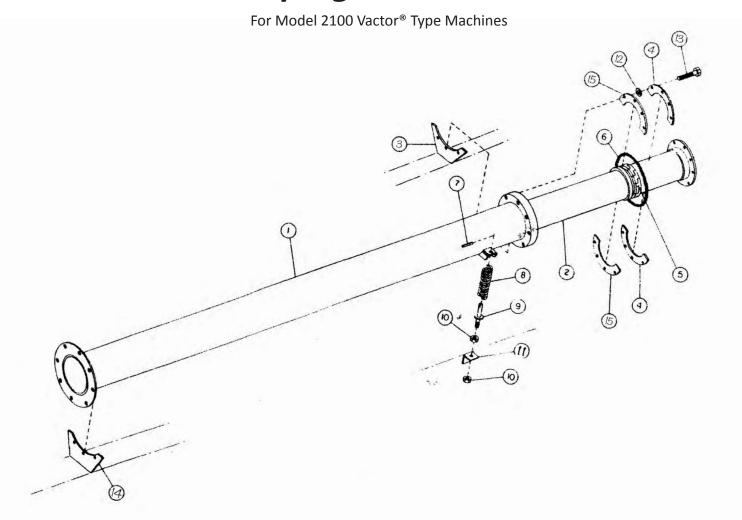


ITEM #:	PART #:	DESCRIPTION	QUANTITY
			NEEDED
2	U42594	Clamp, King 8"	2
3	U46564	8" x 62" Cuffed Debris Hose	1
4	U58795	8" Flange Weldment Assembly	1
5	U16585	8" Flange Gasket	1

Inlet Hose Installation



8' Telescoping Tube Installation



ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
	U62034	Complete Assembly	
1	U62033	Outer Tube Weldment	1
2	U62031**	Inner Tube Weldment	1
3	U58925**	Front Support Plate - 3/8" Holes	1
4	U59827	Retainer Seal O =	
5	U59826	Air Seal Segments (10 needed)	10
6	U44581	14.5" Spring	1
7	U16420-L	Roll Pin, 1/8" x 3/4" Steel	2
8	U44645	Spring, Die - Heavy Load Spring	2
9	U59832	Keeper Rod Weldment	
10	U16359D	Nut, Hex 1/2" - 13 NC	4
11	U59828	Moun ng 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

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 #DescriptionWeightVC644-0132Worm Gear Rotator Assembly54 lbs.



Slewing Bearing Ring Worm Gear

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 sewer cleaning combo trucks and is precision manufactured to meet the everyday demands of this application. This product is an exact replacement part.

Part # Description Weight U45548H Rotating Front Hose Reel Bearing 60 lbs.



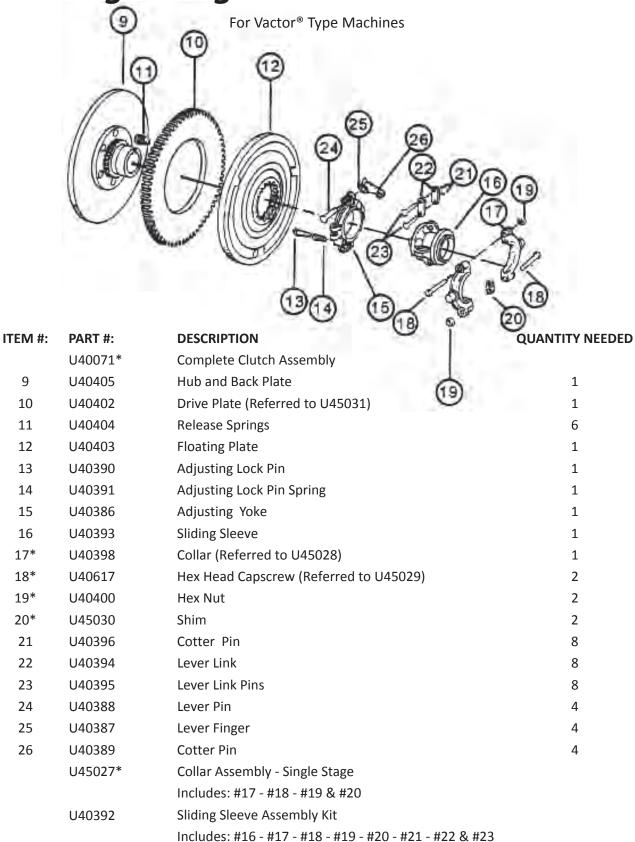
Stop Block Tooth

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 #	Description	Attachment Hole
U61297	Stop Block Tooth	Center
U61297D	Stop Block Tooth	Offset

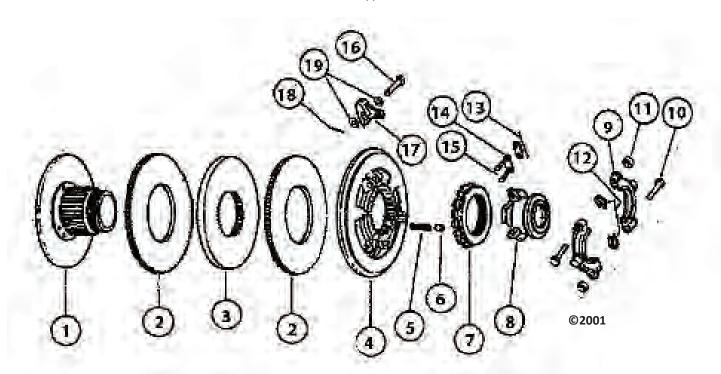


Single Stage Transmission Clutch



Dual Stage Transmission Clutch

For Vactor® Type Machines

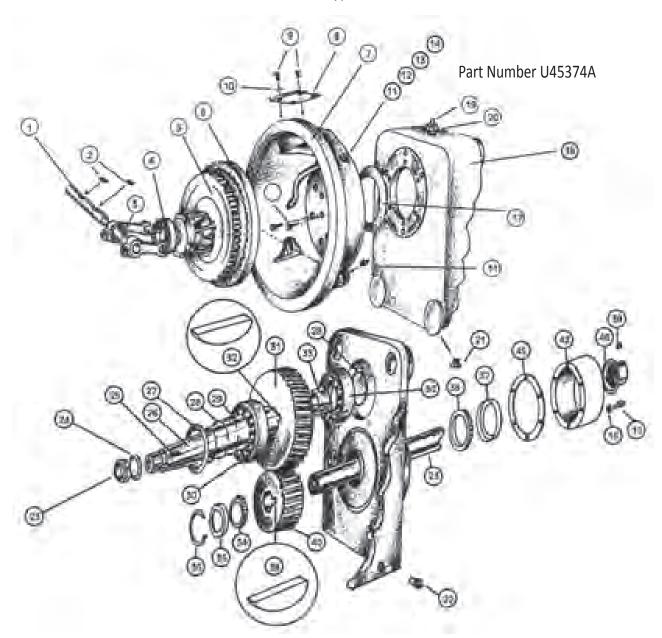


ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
	U40147	Complete Clutch Assembly	1
1	U40406	Hub & Back Plate	2
2	U40407	Drive Plate (Also referred to U45032)	1
3	U40424	Center Plate	1
4	U40423	Floating Plate	1
5	U40426	Adjusting Lock Pin	1
6	U40427	Adjusting Lock Pin Spring	1
7	U40425	Adjusting Yoke	1
8	U40411	Sliding Sleeve	1
9	U40416	Collar	2
10	U40417	Hex Head Capscrew	2
11	U40418	Hex Nut	2
12	U40419	Shim	6
13	U40414	Cotter Pin	6
14	U40412	Lever Link	6
15	U40413	Lever Link Pins	3
16	U40421	Lever Pin	3
17	U40420	Lever	6
18	U40428	Spring Washer	3
19	U40422	Cotter Pin	

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



*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	Key	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

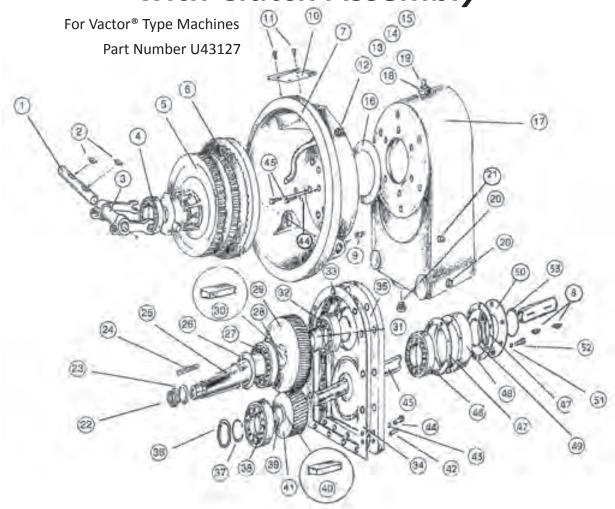
PART #:	DESCRIPTION
.,	CLUTCH KIT ASSEMBLIES
U40411	Sliding Sleeve
U40416	Collar
U40417	Hex head Capscrew
U40418	Hex Nut
U40419	Shim
U40414	Co er Pin
U40412	Lever Link
U40413	Lever Link Pins
U40420	Lever
	COLLAR ASSEMBLY
U40416	Collar
U40417	Hex Head Capscrew
U40418	Hex Nut

Shim

Kit #: U40415 Contains:

U40419

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	Key	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	Key	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" 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.



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 #	Description	Weight
U40799	0-600 PSI Pressure Gauge	1 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	Weight
S6000-00410	0-160 PSI Pressure Gauge	0.6 lb.



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 #	Description	Weight
U42645	Vacuum Gauge	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 #DescriptionWeightS6000-00261Front Panel Mount Vacuum Gauge0.7 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.



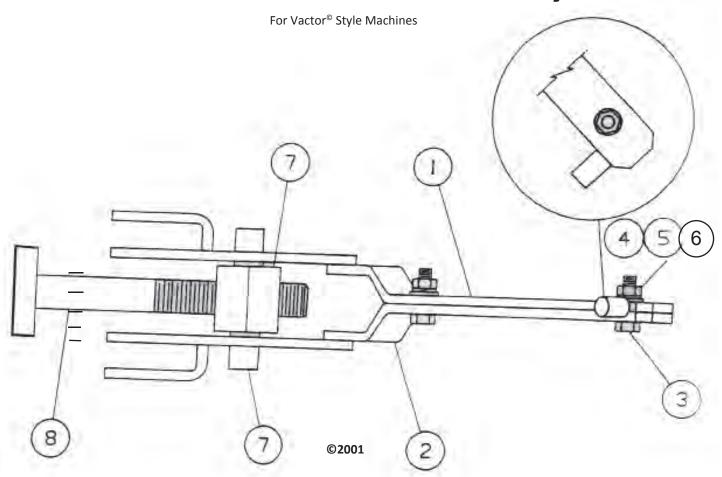
Water Level Gauge

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 #DescriptionWeight\$6000-00711Water Level Gauge1 lb.



Lower Door Lock Assembly

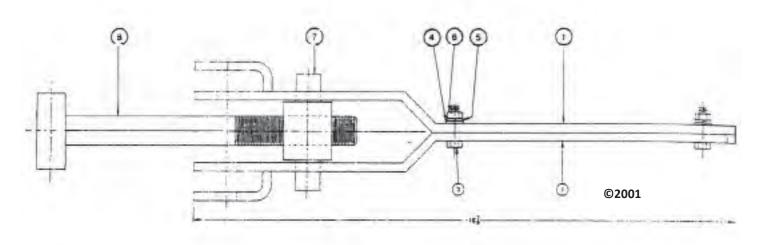


ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
1	U51467**	Lock Handle Weldment w/Stop	
2	U51468	Handle, Lock, Half Weldment	1
3	10-0375-1.0	Bolt, Hex 3/8-16 x 1" Grade 5	1
4	U16364A	Flat Washer 5/16"	2
5	U16366A	Lock Washer 5/16"	2
6	10-0375-000	Nut, KEP 3/8-16 Zinc Plated	2
7	U35446	Block, Adjusting	2
8	U35601	Rod, Lock Adjusting	1
			1

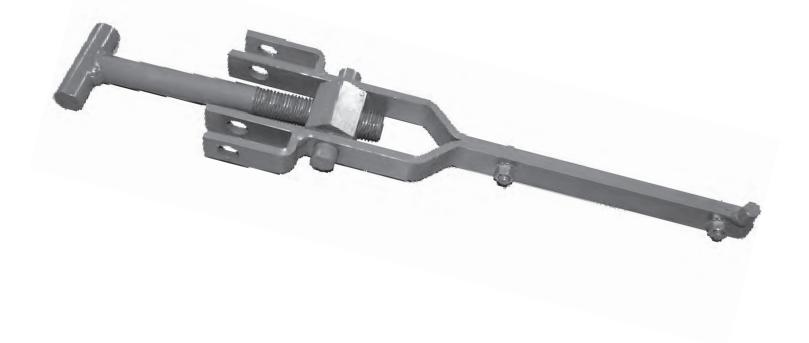


Rear Door Lock Assembly

For Vactor[©] Style Machines - Part Number U35597



ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
	U35597**	Rear Door Side Lock Assembly - Complete	
1	U35598**	Lock Handle Weldment w/Stop	1
2	U38638**	Handle, Lock, Half Weldment	1
3	10-0375-1.0	Bolt, Hex 3/8-16 x 1" Grade 5	2
4	U16364A	Flat Washer 5/16"	2
5	U16366A	Lock Washer 5/16"	2
6	10-0375-000	Nut, KEP 3/8-16 Zinc Plated	2
7	U35446	Block, Adjusting	1
8	U35443	Rod, Lock Adjusting	1



"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 glued-together 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 $1\,1/4$ " ports. $21\,3/4$ " tall x $6\,7/8$ " 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.

 PART #:
 DESCRIPTION
 WEIGHT

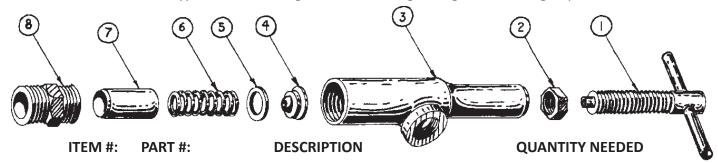
 FE13046A14
 C2 Plunger Cup
 0.25 lbs.

 FE13046A11
 C5 Plunger Cup
 0.25 lbs.



300 & 700 PSI Water Relief Valves

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



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

D65 Industrial Pump
Replacement Parts

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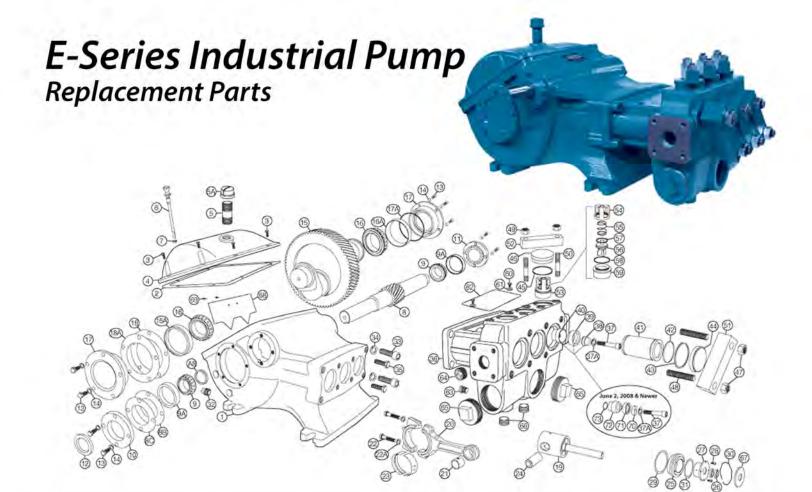
	Description	Oty	F b.Myor (P	
4	Case Gear	1	04625E001	MP4625E1
2	Gasket Lid	1	06201C000	MP6201C
3	Screw for Lid	8	19100A005(A)	MP19100A5
4	Lid	1	045618000	MP4561B
5	Nipple Special Vent	3.0	17995A000	MP17995A
5A	Cap Pipe	1.1	05737A002	MP5737A2
6	Dip Stick w/O-Ring	1	17360A011K	MP17360A11
7	O-Ring for Dip Stick	1	05876A063K	MP5876A63
8	Shaft Pinton		20164B020KB)*	MP201648020
BA	Spacer	1	20164B022A	MP201648022A
88	Shim Green .003	4	05231A074	MP5231A74
BC.	Shim Pink .015	4	05231A075	MP5231A75
9	Cone Bearing Pinion	2	05674A013	MP5674A13
PA-	Cup Bearing Pinion	2	05675A009	MP5675A9
10.	Cap Open	3	D4563A001	MP4563A1
11	Cap Closed	Υ.	047418001	MP4741B1
12	Oil Seal	2	05710A017	MP5710A17
13	Screw Pinion & Crank Cap	18	19101A013	MP19101A13
14	Washer Seal	18	14946A003	MP14946A3
15	Crankshaft - 75 Teeth	1	20355C022KD*	MP20355C022
16	Cone Bearing Crank	.2	05674A018	MP5674A18
64	Cup Bearing Crank	2	05675A013	MP5675A13
17	Cap Bearing	2	046248004	MP462484
7A	O-Ring 5* ID for Bearing Caps	2	05876A098	MP5876A98
18	Shim Green 003	6	05068A018	MP5068A18
AB	Shim Pink .015	6	05068A016	MP5068A16
32	Plug Magnetic Oil Drain	1	17481A002	MP17481A2
33	Screw Cap 3/4-10	4	06106A038	MP6106A38
34	Lock Washer	4	05454A003	MP5454A3
72	Baffle Drip Plate	1	M025548000	MPM2554B000
73	Screw Allen	2	06106A034	MP6106A34

				MPF
19	Crosshead	3	062118041	MP6211841
20	Link Ductile fron Bushing Installed	3	17042C002	MP17042C2
21	Bushing	3.	801619A000KE	MPB1619A
22	Screw for Link Half	6	06171A010(E)	MP19103A16
22A	Lock Washer for Link Half	6	05454A004	MP5454A4
23	Bearing Two Halves Standard	3	15245A101(C)	MP15245A10
24	Wrist Pin	3	M01525A001	MPM1525A1
25	*Retainer Oil Seal Housing	3	24958A000	MP24958A
26	*Oil Seak(two per housing)	6	22835A004	MP22835A4
27	*Housing Oil Seal	3	24959A001	MP24959A1
28	*Screw Allen	6	06106A034	MP6106A34
29	*Gasket Retainer Housing (Lg)	3	05059A058	MP5059AS8
KIT	Ref* 25-29,31 D Series Crosshead	3	24648A000	MP24648A
	Seal Kit Housing Assy			
30	Circle Spring (Wavy)	3	M01643A000	MPM1643A
30 31 74	*Gasket Oil Seal Housing	3	05059A434	MP5059A434
74	Oil Slinger Washer	3	05059A262	MP5059A262

Stort.	Description	Qty	FE Myers #	Lips
36	Fluid End Body Ductile Iron	1	18639F002	MP18639F2
	Fluid End Body Aluminum Bronze	1	18639F004	MP18639004
37	Screw Cap Metric	3	16654A006	MP16654A6
38	Retainer for Spring	3	18879A002	MP18879A2
39	Spring	3	18920A000	MP18920A
40	Pressure Ring	3	18921A000	MP18921A
41	Packing V-Ring	3	18922A000	MP18922A
42	Follower	3	18923A002	MP18923A2
43	Stud Piston SST	3	18924A002	MP18924A2
44	Copper Washer	3	05030A128	MP5030A128
45	Nut Hex 5/8 - 11	6	19109A046	MP19109A46
46	Stud 5/8 - 11	6	05659A560	MP5659A560
47	Nut Hex 7/8 - 11	6	19109A072	MP19109A72
48	Stud 7/8 - 11	6	05659A089	MP5659A89
49	Clamp Bar Valve Cap	1	20848A000	MP20848A
50	Clamp Bar Cyl. Cap	3	20856A000	MP20856A
51	Cap Valve	3	17390A000	MP17390A
51A	Cap Valve (optional) Aluminum Bronze	3	17390A002	MP17390A2
52	O-Ring Valve Cap	3	05876A064	MP5876A64
53	Cap Cylinder	1	20849A000	MP20849A
53A	Cap Cylinder (optional) Aluminum Bronze	3	20849A001	MP20849A001
54	O-Ring Cylinder Cap	3	05876A096	MP5876A96
55	Suction Valve Complete	1	18925A003K	MP18925A3
56	Discharge Valve Complete	3	18925A004K	MP18925A4
57	Valve Seat	6	18835A002	MP18835A2
58	Valve Disc	6	18834A001	MP18834A1
59	Spring Section Valve	3	18463A000	MP18463A
60	Spring Disdch, Valve	3	11829A000	MP11829A
61	Retainer Cap	6	18833A001	MP18833A1
62	Cap Screw Valve Retainer Cap	6	18832A000(F)	MP18832A
63	Lid Cylinder Area of Fluid End	1	M01520A000	MPM1520A
64	Screw Fluid End Lid	7	05028A002	MP5028A2
65	Washer Fluid End Ltd	2	05030A020	MP5030A20
66	Plug 1/2" Pipe	2	05022A015	MP5022A15
67	Plug 1" Pipe	3	05022A043	MP5022A43
68	Plug 1 1/4" Pipe	1	05022A043	MP5022A41
69	Plug 3" Pipe	2	03210A010	MP3210A
70	Cylinder Liner w/o Ring	2	20851A001	MP20851A1
71	O-Ring for Cylinder	3	05876A095	MP5876A95
V.1.	G-King for Cylinder	3	038/0A093	MP38/0AY3

(a) Same is #19100A033 (b) Old #201648000 14* Pitch (C) Old #201648002A (D) Old #203556010 14* Pitch () Same 24 #801619A001 () New #19103A016 () Old #15245A002 (P) Same 25 #18#32A001

*NOTE: In 1990 the count of the property was promise this pump and changed from 1 diagnost in 12 diagnost in 1990 diag



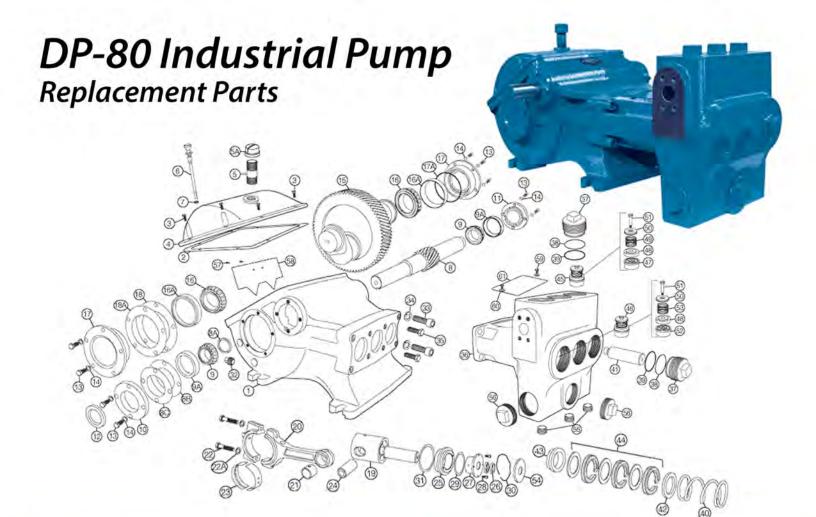
		Care		
1	Case Gear	11.	04625E001 A	MP4625E1
2	Gasket Lid	. 1:	06201C000	MP6201C
3	Screw for Lid	8	19100A005®	MP19100A5
4	Lid	1	045618000	MP4561B
5	Nipple Special Vent	1	17995A000	MP17995A
5A	Cap Pipe	1	05737A002	MP5737A2
6	Dip Stick w/O-Ring	. 1	17360A011K	MP17360A11
7	O-Ring for Dip Stick	1	05876A063KC	MP5876A63
8	Shaft Pinion	1	20164B020K(D) *	MP20164B020
8A	Spacer	. 1	20164B022AE	MP20164B022A
88	Shim Green .003	4	05231A074	MP5231A74
8C	Shim Pink 015	4	05231A075	MP5231A75
9	Cone Bearing Pinion	2	05674A013	MP5674A13
9A	Cup Bearing Pinion	2	05675A009	MP5675A9
10	Cap Open	1	04563A001	MP4563A1
11	Cap Closed	1.	047418001	MP474181
12	Oil Seal	1	05170A017	MP5710A17
13	Screw Pinion & Crank Cap	18	19101A013	MP19101A13
14	Washer Seal	18	14946A003	MP14946A3
15	Crankshaft - 75 Teeth	1	20355C022K(F)*	MP20355C022
16	Cone Bearing Crank	2	05674A021	MP5674A21
16A	Cup Bearing Crank	2	05675A013	MP5675A13
17	Cap Bearing	2	046248004	MP462484
17A	O-Ring 5" ID for Bearing Caps	2	05876A098	MP5876A98
18	5him Green .003	6	05068A018	MP5068A18
18A	Shim Pink 015	6	05068A016	MP5068A16
32	Plug Magnetic Oil Drain	1	17481A002	MP17481A2
33	Screw Cap 3/4"-10	4	06106A038	MP6106A38
34	Lock Washer	4	05454A003	MP5454A3
35	Screw Cap 5/8*-10	4	19105A008	MP19105A8
68	Baffle Drip Pan	1	M02554B000	MPM2554B000
69	Allen Screw	2	06106A034	MP6106A34

Re i.		Qty	FEMORIA T	
19	Crosshead	3	062118042	MP6211842
20	Ductile Iron Link (Bushing Installed)	3	17042C002	MP17042CZ
21	Bushing	3	B01619A000K@	MPB1619A
22	Screw for Link Half	6.	19103A016(H)	MP19103A16
22A	Lock Washer for Link Half	-6	05454A004	MP5454A4
23	Bearing Two Halves Standard	3	15245A101K(I)	MP15245A101
24	Wrist Pin	3	M01525A001	MPM 1525A1
25	Retainer Oil Seal Housing	3	24958A000	MP24958A
26	Oil Seal two per housing	-5	22835A003	MP22835A3
27	Housing Oil Seal	3	24959A000	MP24959A
28	Allen Screw	6.	06106A034	MP6106A34
29	Gasket Retainer Housing (Lg)	3	05059A058	MP5059A58
30	Circle Spring	3	M01643A000	MPM1643A
31	Gasket Oil Seal Housing	3	05059A434	MP5059A434
67	Oil Slinger Washer	3	05059A263	MP5059A263

			FE Minors #	MP#
37	Screw Cap - metric	3	16654A006	MP16654A6
37A	Lock Washer	3	06107A013	MP6107A13
38	Retainer Piston E54-30	3	7206-0359-00A	MP7206-0359-00A
38A	Retainer Piston E70-23	3	7206-0394-00A	MP7206-0394-00A
38B	Retainer Piston E80-20	3	7206-0397-00A	MP7206-0397-00A
38C	Retainer Piston E110-14	3	7206-0349-00A	MP7206-0349-00A
39	Piston Cup E54-30 (1.75 o.d.)	3	7206-0389-00A	MP7206-0389-00A
39A	Piston Cup E70-23 (2.00 o.d.)	3	7206-0392-00A	MP7206-0392-00A
398	Piston Cup E80-20 (2.125 o.d.)	3	7206-0395-00A	MP7206-0395-00A
	Flat Back (2.50 o.d.)	3	7206-0617-00A	MP7206-0617-00A
40	Piston Hub E54-30	3	7206-0354-00A	MP7206-0354-00A
-40A	Piston Hub E70-23	3	7206-0393-00A	MP7206-0393-00A
408	Piston Hub E80-20	3	7206-0396-00A	MP7206-0396-00A
40C	Piston Hub E110-14	3	7206-0358-00A	MP7206-0358-00A
41	Cylinder Liner E54-30 (1.75 Ld.)	3	26849A000	MP26849A
41A	Cylinder Liner E70-23 (2.00 Ltd.)	3	20851A001	MP20851A1
418	Cylinder Liner E80-20 (2.125 i.d.)	3	20851A004	MP20851A4
41C	Cylinder Liner E110-14 (2.50 i.d.)	3	26849A003	MP26849A003
42	Cylinder Liner O-Ring	3	05876A095	MP5876A95
43	Cylinder Cap Seal Ring	3	7202-0041-00A	MP7202-0041-00A
44	Cylinder Cap	3	26805A000	MP26805A
45	Seal Ring Valve Cap	3	26862A001	MP26862A1
46	Valve Cap E Series (except E80-25)	3	26848A000	MP26848A
47	Her Nut 7/8 -14	6	19109A072	MP19109A72
48	Stud 7/8-14	6	05659A089	MP5659A89
49	Hex Nut 5/8-11	6	19109A046	MP19109A46
50	Stud 5/8-11	6	05659A560	MP5659A560
51	Cylinder Cap Clamp Bar	3	20856A000	MP20856A
		3		
52	Valve Cap Clamp Bar	6	20848A000	MP20848A
53	Suction/Discharge Valve Assembly		TS18-AR0-AC0714	MPTS18AROAC0714
54	Valve Cage	6	7203-0544-008	MP7203-0544-00B
55	Valve Spring	6	7206-0302-00A	MP7206-0302-00A
56	Valve Guide	6	7203-0542-00A	MP7203-0542-00A
57	Valve Insert E54-30 (Polyurethane)	6	7203-0546-00A	MP7203-0546-00A
58	Valve O-Ring E80-20V	6	05876A236	MP5876A236
58A	Valve O-Ring E70-23 & E110-14	6	110-000032-201	MP110-000032201
59	Valve Seat	6	7203-0 543-00B	MP7203-0543-00B
60	Screw Fluid End Lid	2	05028A002	MP5028A2
61	Washer Fluid End Lid	2	05030A020	MP5030A20
62	Lid Cylinder Area of Fluid End	1	M01520A000	MPM1520A
63	Plug 1/2" Pipe	3	05022A063	MP5022A063
64	Plug 1-1/4" Pipe	1	05022A041	MP5022A41
65	Plug 3" Pipe	2	03210A000	MP3210A
66	Plug 1" Pipe	3	05022A043	MP5022A43
70	Piston Retainer E54-30	3	7206-0356-00A	MP7206-0356-00A
.71	Piston Cup (Flat) E54-30	3	7206-0361-00A	MP7206-0361-00A
72	Piston Hub E54-30	3	7206-0354-00A	MP7206-0354-00A
.73	O-Ring 1-1/4" Poly E54-30	3	110-000024-218	MP110-000024218

(\$\) Same as #04625E010E (\$\) Same as #191100A0338 (\$\) Same as #116-000110-201 (\$\) O'dd #20164800015 144 Pitch (\$\) Old #201648002A ©Old #20355C010 14* Pitch © Suine: as #801619A001 ® New #19103A016 © Old #15245A002

*NOTE in 1798 the considered and pinning part outs for this pump, and change from 14 degrees to 22 degrees. The schools are an architect or pump million with with the common million method with a compare and made by 22 degrees and transaction to the common made by 22 degrees and transaction to the common transaction.



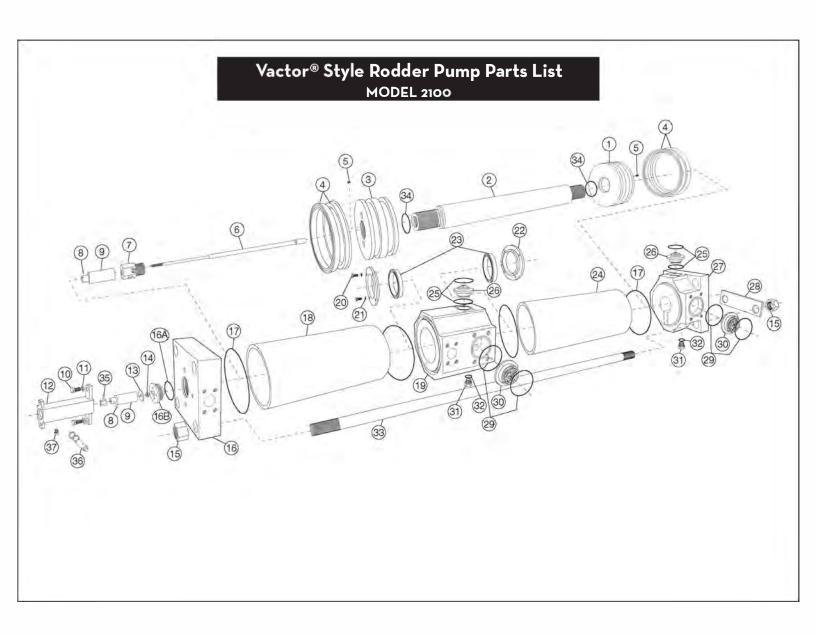
BALL .	Description	Qty	FEAture 4	ME
1	Case Gear	1	04625E001	MP4625E1
2	Gasket Lid	1	06201C000	MP6201C
3	Screw for Lid	8	19100A005(A)	MP19100A5
4	tid	1	04561B000	MP4561B
5	Nipple Special Vent	1	17995A000	MP17995A
5A	Cap Pipe	1	05737A002	MP5737A2
6	Dip Stick w/Q-Ring	1	17360A011K	MP17360A11
7	O-Ring for Dip Stick	1	05876A063K	MP5876A63
8	Shaft Pinion	1	20164B020K(B)*	MP201648020
8A	Spacer	1	20164B022AC	MP20164B022A
88	Shim Green .003	4	05231A074	MP5231A74
8C	Shim Pink .015	4	05231A075	MP5231A75
9	Cone Bearing Pinton	2	05674A013	MP5674A13
PA.	Cup Bearing Pinion	2	05675A009	MP5675A9
10	Cap Open	3	04563A001	MP4563A1
11	Cap Closed	1	047418001	MP4741B1
12	Oil Seal	1	05170A017	MP5710A17
13	Screw Pinion & Crank Cap	18	19101A013	MP19101A13
14	Washer Seal	18	14946A003	MP14946A3
15	Crankshaft - 75 Teeth	1	20355C022K(D)*	MP20355C022
16	Cone Bearing Crank	2	05674A018	MP5674A18
16A	Cup Bearing Crank	2	05675A013	MP5675A13
17	Cap Bearing	2	046248004	MP4624B4
17A	O-Ring 5" ID for Bearing Caps	2	05876A098	MP5876A98
18	Shim Green .003	6	05068A018	MP5068A18
18A	Shim Pink 015	6	05068A016	MP5068A16
32	Magnetic Plug Oil Drain	1	17481A002	MP17481A2
33	Screw Cap 3/4"-10	4	06106A038	MP6106A38
34	Lock Washer	4	05454A003	MP5454A3
35	Screw Cap 5/8"-11	4	19105A008	MP19105A8
57	Allen Screw	2	06106A034	MP6106A34
58	Baffle Drip Plate	1	M02554B000	MPM2554B000

Ref.	Description	On	FE Myora T	
19	Crosshead	3	249568000	MP24956B
20	Ductile fron Link (Bushing Installed)	3	17042C002	MP17042CZ
21	Bushing	3	B01619A000K(E)	MPB1619A
22	Screw for Link Half	6	016171A010©	MP19103A16
22A	Lock Washer for Link Half	6	05454A004	MP5454A4
23	Bearing Two Halves Standard	3	15245A101K(C)	MP15245A10
24	Wrist Pin	3	M01525A001	MPM1525A1
25	Retainer Oil Seal	3	24958A000	MP24958A
26	Oil Seal two per housing	6	22835A003	MP22835A3
27	Housing Oil Seal	3	24959A000	MP24959A
28	Allen Screw	6	06106A034	MP6106A34
29	Gasket Retainer Housing	3	05059A058	MP5059A58
30	Circle Spring (Wavy)	3	M1643A000	MPM1643A
31	Gasket Oil Seal Housing	3	05059A434	MP5059A434
40	Spring - Packing	3	24799A001	MP24799A1
41	Phinger Coated (21/8" o.d.)	3	247988022	MP24798B22
42	Washer Spring (21/8° p.d.)	3	24955A002	MP24955A2
43	Ring-Seal Back	3	24754A002	MPZ4954A2
44	Packing (21/8" o.d.)	3	24962A003	MP24962A3
54	Oil Slinger Washer	3	05059A263	MP5059A263

101	Description	00	FRANÇOI II.	AP	
36	Fluid End Body A (L.P.)	1	24961F000	MP24961F000	
37	Cap for Discharge and Suction Valve	6	24797A000	MP24797A	
38	O-Ring	6	05876A168	MP5876A168	
39	Back Up Ring	6	18753A007	MP18753A7	
41	Plunger Coated (21/8" o.d.)	3	247988022	MP24798B22	
45	Discharge Valve Assy	3		MP2479000	
46	Suction Valve Assy	3		MP2479001	
47	Discharge Valve Seat F.E.A.	3	24796A001	MP24796A1	
48	Valve Delrin*	6	18834A003	MP18834A3	
49	Spring-Discharge Valve	3	11829A001	MP11829A1	
50	Retainer Spring	6	18833A001	MP18833A1	
51	Cap Screw Thread Lock	6	18832A002	MP18832A2	
52	Suction Valve Seat F.E.A.	3	24796A000	MPZ4796A	
53	Suction Valve Spring	3	11829A000	MP11829A	
55	Plug 1" Pipe	3	D5022A043	MP5022A43	
56	Plug 3* Pipe	3	03210A000	MP3210A	
59	Screw Fluid End Lid	2	05028A002	MP5028A2	
60	Washer Fluid End Lid	2	05030A020	MP5030A20	
61	Lid-Cylinder Area of Fluid End	1	M01520A000	MPM1520A	

A Same as #19100A033 B Old #201648000 14* Pitch C Old #201648002A D Old #203556010 14* Pitch ESume or #801619A001 FNew #1P102A016 COM #15245A002

*NOTE In 1998 the cranical and prices generated for this pump was charged from 14 degenerate 22 degenera. Therefore a new crank half as pinces will not wrish with the same components manufactured before 1998, Soch components must be 22 degenerated from the components of the compone



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	U41848
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 17/2"	1	U39222
14	Seal	1	U29662
15	Nut, Hex 11/2"	8	U29644
16	Block, Oil End - New Style	1	U62461
16A	O-Ring, Style Oil End Block	1	U62461.003
16B	Nut HYD Service Oil End Block	1	U62461.002
17	O-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

Ref.	Description	Qty	Part #
25	0-Ring - 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-Ring - Parker 3"	4	U29640
30	Check Valve 3"	2	U29384
31	Drain Plug, 3/4" - 16NF	2	U29826
32	0-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	10	U45834
37	Breather	2	U43049
	Seal 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

Part # U62180 Complete Pump Assembly



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.





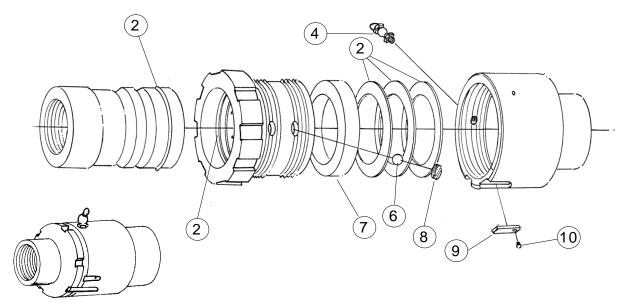


U40052B	3/4"	Straight
U40052C	1"	Straight
U44106	1¼"	Straight

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

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

(2)

Bearing Kit (6)

U42085 3/4" & 1" 0.5 lbs U44648 1-1/4" 0.5 lbs

Back-Up Ring (7)

U42084 3/4" & 1" 0.25 lbs U44650 1-1/4" 0.25 lbs

Ball Retainer Screw (8)

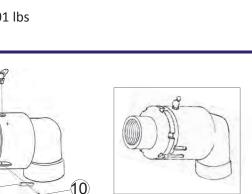
(7)

U40052.008 3/4", 1" & 1-1/4" 0.01 lbs

(2)

4

(8)



3/4", 1" & 1-1/4"

3/4", 1" & 1-1/4"

3/4", 1" & 1-1/4" 0.01 lbs

3/4", 1" & 1-1/4" 0.01 lbs

Tab Retainer (9)

Retainer Screw (10)

U40052.009

U40052.010

Tab Retainer (9)

Retainer Screw (10)

U40052.009

U40052.010

RAM® STYLE 90° SWIVEL

(6)

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 Kit (6)

U42085 3/4" & 1" 0.5 lbs U44648 1-1/4" 0.5 lbs

Back-Up Ring (7)

U42084 3/4" & 1" 0.25 lbs U44650 1-1/4" 0.25 lbs

Ball Retainer Screw (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

0.01 lbs

0.01 lbs



Ball Valves



Part # U40576HY - 1" 2-Way

Part# AT130920 - 1" 3-Way

Part # AT1815 - Seal Kit

Part # AT1800 - Replacement

Handle

*All Parts Are Interchangeable With Hycon_® Ball Valves

MADE IN THE USA.

The Alternative To The Hycon® Ball Valve

Both Are Rated At 4500 PSI



Hydraulics



Ball Valves

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



Part #SizeU445353/8" Three-Way 5000 PSIAT1308901/2" Three-Way 5000 PSIAT1309201" Three-Way 4500 PSIAT1309191 1/4" Three-Way 4500 PSI

Three-Way Ball Valve Handle



Part # Size

AT1800 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

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® Two-Way 3000 PSI
U40575HY	1/2" Hycon® Two-Way 3000 PSI
U40575C	3/4" Hycon® Two-Way 3000 PSI
U40576HY	1" Hycon® Two-Way 3000 PSI
U43941HY	1 1/4" Hycon® Two-Way 3000 PSI

Ball Valve Seal Kit



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

Water Gun Assembly

Heavy Duty Washdown Gun



 Part #
 Type

 U45109
 25 GPM @ 850 PSI MAX

 U45109A
 25 GPM @ 3000 PSI

Water Gun Assembly

ITEM #:	PART #:	DESCRIPTION	QUANTITY NEEDED
	U45109	Wash Down Gun Complete	
1	U45144	Bolt	2
2	U45145	Lock washer	2
3*	N/A	O-Ring - Not Sold Separately	2
4	U45147	Regulator	1
5	N/A	Regulator Body - Not Sold Separately	1
6	N/A	Rear Barrel - Not Sold Separately	1
7	N/A	Body - Not Sold Separately	1
8	U45151	Shroud	1
9	N/A	Front Barrel - Not Sold Separately	1
10	N/A	Inner Barrel - Not Sold Separately	1
11	U45154-3.5	Nozzle (12 GPM @ 800 PSI) Standard	1
11	U45154-4.5	Nozzle (18 GPM @ 800 PSI)	1
12	U71081	O-Ring	1
13	U45156	Nozzle Retainer	1
14*	N/A	O-Ring - Not Sold Separately	1
15	U45158	Front Grip	1
16	U45159	Bracket	1
17	U45160	Nut	1
18	U45161	Lock washer	1
19	U45163	Trigger	1
20	U45162	Pin	1
21	U45164	Guide	1
22*	N/A	O-Ring - Not Sold Separately	1
23	U45166	Hand Grip	1
24	U45167	Locking Clip	1
25	U45168	Washer	1
26	U45169	Inlet Port	1
27	U45170	Spring	1
28*	N/A	O-Ring - Not Sold Separately	1
29	U45172	Plug	1
30	U45173	Plunger	1
31	U45174	Poppet	1
32	U45175	Tube	1
33	U45177	Seat (Not Shown)	1
34	U45176	Outlet Port (Not Shown)	1
*	U45178	Seal Kit: Includes #3-12-14-22 & 28	
		Must Order Seal Kit	
		O-Rings Not Sold Separately	
*	UEM5050FS	1/2" FPT Swivel Connection	

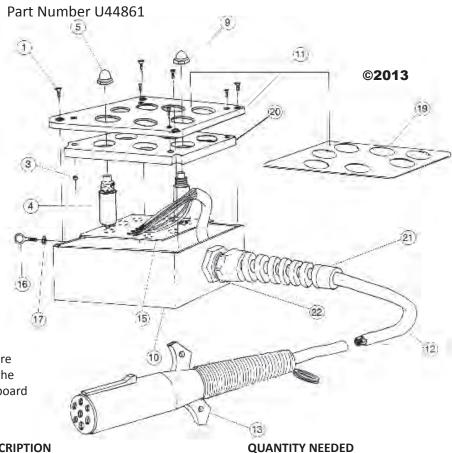
7 BUTTON PENDANT CONTROL

Compete 7 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

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.



			123
ITEM #:		DESCRIPTION	QUANTITY N
	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	7
5	U53003	Boot, Pendant Control - Grey	6
9	U44869	Boot, Pendant Control - Red	1
10	U44918	Box Only, 7 Button Pendant Control - (Black)	1
11	U44919	Lid, 7 Button pendant 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 Button Pendant 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

Pendant Controls

7-Button w/VAC Relief



Pendant Control

w/VAC Relief and Kill Switch



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	



For Aquatech®

Truck Application Long Yellow Body

Part #	Description
AT 121952 9.5lb	os 8 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.





Heavy Duty Top Manhole Roller

The DO-6B top manhole roller is made from 2" \times 1" \times .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.

The 5" polyethylene roller is durable and protects the outside jacket of sewer cleaning hose and video inspection cable. NOTE: An aluminum roller can be substituted for the polyethylene roller on request. Made in the USA.

Part #	Description	Weight
D0-6B	Heavy Duty Top Manhole Roller	35 lbs.



Regular Duty Top Manhole Roller

The DO-6D top manhole roller is made from 2" aluminum angle that makes it lightweight but rugged. Its 5" polyethylene roller is very durable and offers protection for the outer jacket of sewer cleaning hose and video inspection cable. Made in the USA.

Note: An aluminum roller can be substituted for the polyethylene roller on request.

Part #DescriptionWeightD0-6DRegular Duty Top Manhole Roller16 lbs.



Nylon Replacement Manhole Roller

The nylon replacement polyethylene roller fits most top manhole roller frames. It is 5" wide x 5 x" in diameter and is supplied with a x" 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 #DescriptionWeightD0-7NNylon Replacement Roller3 lbs.



Aluminum Replacement Manhole Roller

D0-7's replacement aluminum roller fits most top manhole roller frames. It is 5'' wide x 5%'' in diameter and is supplied with a %'' 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.

Part #DescriptionWeightSRE17048Easement Replacement Roller2.5 lbs.



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



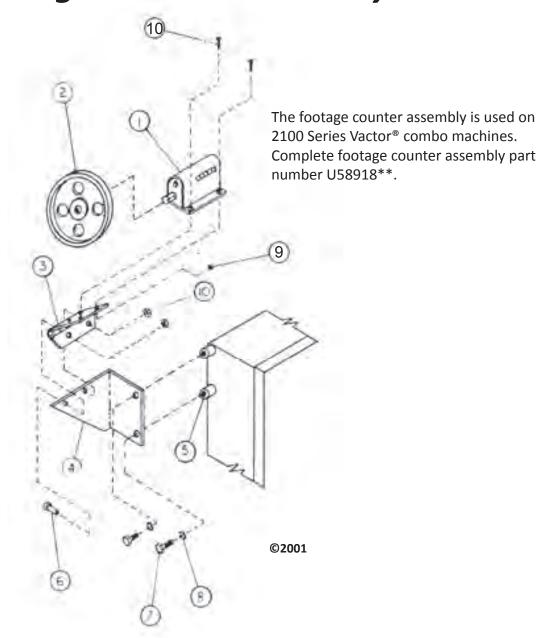
This aluminum hose guide tube is used on all level wind assemblies. It also fits early 1990 and later Aquatech® sewer jetting machines. Use replacement roller P/N 6028. Made in the USA.

Part # U222B10-1

Description
Aluminum Hose Guide

Weight 1.85 lbs.

Footage Counter Assembly



ITEI	VI# PAR	Т#	DESCRIPTION	QUANTITY
1	U45	047	Left Hand Footage Counter	1
2	U45	046	Counter Wheel	1
3	U45	049	Footage Counter Hinge	1
4	U58	917	Mounting Bracket	1
5	U16	335	Screw, 1/4-20 - 3/4 Hex Head Cap	2
6	U16	339	Screw, 5/16-18 NC x 3/4 Hex Head Cap	2
7	U16	367A	Laco Washer 5/16"	2
8	U20	121G	Lock Nut 1/4-20NC	2
9	U16	359X	Hex Nut 4-40	4
10	U16	3400	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 #DescriptionWeightS3000-003474-Way Roller Assembly1.5 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 #DescriptionWeightU45054Footage Counter0.5 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 #DescriptionWeightU45047Footage Counter0.5 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 #DescriptionWeightU45046Footage Wheel0.5 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 #DescriptionWeightU40867Footage Wheel0.5 lbs.



Blue Nylon Discharge Hose

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

Part # U39898	Description Bulk Hose (Per Foot)
U29898A	6" x 5'
U29898B U29898C	6" x 8' 6" x 10'
U29898E	6" x 15'
U29898F	6" x 20'
U29898G U29898H	6" x 25' 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 #	Description	Weight
U-189	Adjustable Hydrant Wrench	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 #	Description	Weight	
MHH-918	18″ 90° Manhole Hook	2.6 lbs.	
MHH-930	30″ 90° Manhole Hook	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 #	Description	Weight
MHH-18	18" Manhole Hook	3.74 lbs.
MHH-26	26" Manhole Hook	4 lbs.
MHH-36	36" Manhole Hook	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 #	Description
U20720K	2 1/2" x 10'
U20720F	2 1/2" x 15'
U20720G	2 1/2" x 20'
U20720A	2 1/2" x 25'
U20720H	2 1/2" x 30'
U20720D	2 1/2" x 50'
U20720E	2 1/2" x 60'
U20720Z	2 1/2" x 100'



Male Coupling



Part # Size U20199A 2 1/2" Male Coupling

Female Coupling



Part # Size U20199B 2 1/2" Female Coupling

Female Coupling Gasket



Part # Size U41487 2 1/2

Size 2 1/2" Female Gasket

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 G0-series Penetrator nozzles are made of high-grade steel and feature a black oxide finish for extended life. The G0 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. G0-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	O 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	O Front / 6 Rear Jets	30°	9-10	2000-3000

G9 - 1/4" Mustang Hex Nozzles

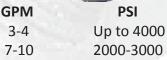
G9-series Mustang Hex nozzles were designed to exact specifications to the popular hex nozzle used on Mustang lateral jet machines. The hex is manufactured using high-grade steel with a black oxide finish for extended life. The G9 series nozzle, equipped with a 1/4" FPT connection, is great for general 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.









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-

Specifications

tailored needs.

Rear jet angle: 15° Diameter: .950″ Length: 1 1/8″ Weight: .11 lbs. Made in the USA.





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

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.

Specifications

Rear jet angle: 30° Diameter: 1 3/8" Length: 3" Weight: 1 lbs. Made in the USA.



Typhoon



Part # FPT RT-3 3/8"

n

Rear Jet Degree 30°

18 to 25

Up to 3000

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 $1/2^{\circ}$ 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
F1-115	1/2"
F1-125	1/2"

Description
Penetrator
Penetrator

Rear Jet Degree	GPI
45°	8 to
45°	15 to

8 to 15	Up to 4000
15 to 25	2000-3000

PSI

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
F1-1115	1/2"
F1-1125	1/2"

Description			
Lance Tip Penetrator			
Lance Tip Penetrator			

Rear Jet Degree	GPM	
45°	8 to 15	
45°	15 to 25	

PSI Up to 4000 5 2000-3000

1/2" Ellipse Nozzle

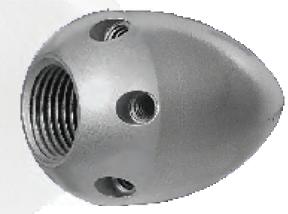
Ellipse nozzle features high-grade heat-treated steel construction, insuring a long-lasting product life. This nozzle has six replaceable rear orifices and a front penetrator orifice, which is also replaceable.

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

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





Part #	FPT
AT136160	1/2"

Description Eclipse

Rear Jet Degree 15°

GPM 25

PSI 2000

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: 15/8" Weight: .25 lbs. Made in the USA.





Part #	FPT
F5-315	1/2"
F5-315N	1/2"
F5-325	1/2"
F5-325N	1/2"
F5-380	1/2"

Description	Rear Jet Degree	GPM	PSI
Button Short w/ Front Jet	45°	8 to 15	Up to 4000
Button Short w/o Front Jet	45°	8 to 15	Up to 4000
Button Short w/ Front Jet	45°	15 to 25	2000-3000
Button Short w/o Front Jet	45°	15 to 25	2000-3000
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

Diameter: 1 3/8" Length: 2 5/8" Weight: 1 lb. Made in the USA.







Description Typhoon



Rear Jet Degree 30°

GPM 20 to 35

PSI 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 EO-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: 15/8" Length: 2 1/4" Weight: .63 lbs. Made in the USA.





Part #	FPT	Description R	ear 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 Va	ac) 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 Va	ac) 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

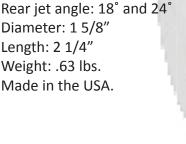
3/4" Radial Vortex Nozzle

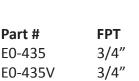
E0-4 series Radial Vortex nozzle showcases high-grade heat-treated steel construction with a black oxide finish, which together extend product life. The E0-4 is equipped with six rear jets staggered at 18° and 24° with one front jet. The E0-4 is great for forward thrust, while maintaining a consistent 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

Diameter: 15/8" Length: 2 1/4" Weight: .63 lbs. Made in the USA.











GPM PSI 35 to 40 Up to 1800 35 to 40 Up to 3000

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.

Specifications

Rear jet angle: 12° Diameter: 1 5/8″ Length: 3 7/8″ Weight: .83 lbs. Made in the USA.





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.

Specifications

Rear jet angle: 12° Diameter: 1 5/8″ Length: 3 7/8″ Weight: .83 lbs. Made in the USA.





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 24° 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, equpped 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.



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: 1 7/8" Length: 3 3/4" Weight: 1.2 lbs. Made in the USA.



Part #	FPT	Description	Rear Jet Degree	GPM	PSI
A4-245-3000	1"	Radial Bullet (1 Front/ 6 Rear)	18°	45	3000
A4-250-3000	1"	Radial Bullet (1 Front/ 6 Rear)	18°	50	3000
A4-260	1"	Radial Bullet (1 Front/ 6 Rear)	18°	60	2000
A4-280	1"	Radial Bullet (1 Front/ 6 Rear)	18°	80	2000
A4-2A45	1"	Radial Bullet (1 Front/ 6 Rear)	30°	45	2000
A4-2A50-3000	1"	Radial Bullet (1 Front/ 6 Rear)	30°	50	3000
A4-2A60	1"	Radial Bullet (1 Front/ 6 Rear)	30°	60	2000
A4-2A80	1"	Radial Bullet (1 Front/ 6 Rear)	30°	80	2000
A4-2N45	1"	Radial Bullet (6 Rear)	18°	45	2000
A4-2N50-3000	1"	Radial Bullet (6 Rear)	18°	50	3000
A4-2N60	1"	Radial Bullet (6 Rear)	18°	60	2000
A4-2N80	1"	Radial Bullet (6 Rear)	18°	80	2000
A4-2NA45	1"	Radial Bullet (6 Rear)	30°	45	2000
A4-2NA50-3000	1"	Radial Bullet (6 Rear)	30°	50	3000
A4-2NA60	1"	Radial Bullet (6 Rear)	30°	60	2000
A4-2NA80	1"	Radial Bullet (6 Rear)	30°	80	2000

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.

1"

Specifications

Rear jet angle: 18° and 24°

Diameter: 17/8" Length: 3 3/4" Weight: .63 lbs.



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

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

1" Penetrator Nozzle

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.

Specifications

A5-160

A5-180

Rear jet angle: 12° Diameter: 2" Length: 4 1/2" Weight: 1.6 lbs. Made in the USA.





60

80

PSI

2000

3000

2000

2000

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.



1" Ellipse Nozzle

Ellipse nozzle features high-grade heat-treated steel construction with a black oxide finish, insuring a long-lasting 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.



Part #	FPT	Description
AT136150	1"	Ellipse
AT136150-80	1"	Ellipse



Rear Jet Degree	GPM	PSI
15°	60	2000
15°	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.

Specifications

Rear jet angle: 24° Diameter: 2" Length: 3 3/8" Weight: 1.75 lbs. Made in the USA.





Description	
Typhoon	
Typhoon	
Typhoon	



Rear Jet Degree	GPM	PSI
24°	50 to 65	1250 to 1675
24°	50 to 65	1675 to 2000
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.

Specifications

Rear jet angle: 15° or 30°

Diameter: 2 1/8" Length: 3 1/2" Weight: 1.75 lbs. Made in the USA.





Part #	FPT
U29343-A2	1"
U29343-B2	1"
U29343-C	1"
U44233-A2	1"
U44233-B2	1"

Description	Rear Jet Degree	GPM	PSI
Sanitary	30°	60	1675 to 2000
Sanitary	30°	50	1675 to 2000
Sanitary	30°	80	1675 to 2000
Sanitary	15°	60	1675 to 2000
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 long-lasting 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.

Specifications

Rear jet angle: 30° Diameter: 3 1/4″ Length: 6 3/4″ Weight: 5.8 lbs. Part # FPT

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.

Specifications

Rear jet angle: 15° or 30°

Diameter: 2 1/8" Length: 4 1/4" Weight: 2.4 lbs. Made in the USA.

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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.



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.

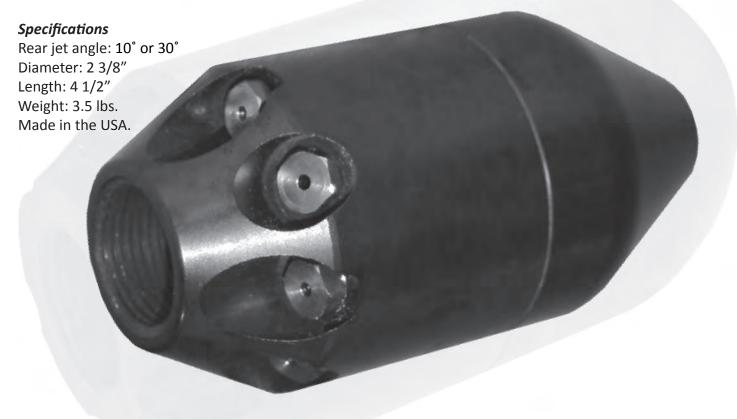


Part #	FPT	Description	Rear Jet Degree	GPM	PSI
U58926BJB	1"	Tungsten Carbide Sand	30°	80	2000
U58926BJC	1"	Tungsten Carbide Sand	30°	80	2500
U60307BFB	1"	Tungsten Carbide Sand	15°	60	2000
U60307BFC	1"	Tungsten Carbide Sand	15°	60	2500
U60307BGB	1"	Tungsten Carbide Sand	15°	65	2000
U60307BHC	1"	Tungsten 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 externely 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.



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 externely 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



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	<i>UEZ60.100</i>		UEZ60.100L
Front jet angle:		1 @ 0°, 3 @ 15°	1 @ 0°, 3 @ 15°		1 @ 0°, 4 @ 15°
Rear jet angle:		2 5°	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"		6" to 18"
Made in the USA.					
Part #	FPT	Descri	ption	GPM	PSI
UEZ60.075.30	3/4"	Hustler Chisel (4	Front/ 6 Rear)	30	3000
UEZ60.075.40	3/4"	Hustler Chisel (4	Front/ 6 Rear)	40	2000
UEZ60.075.50	3/4"	Hustler Chisel (4	Front/ 6 Rear)	50	3000
UEZ60.100.40	1"	Hustler Chisel (4	Front/ 6 Rear)	40	3000
UEZ60.100.50	1"	Hustler Chisel (4	Front/ 6 Rear)	50	3000
UEZ60.100.55	1"	Hustler Chisel (4	Front/ 6 Rear)	55	3000
UEZ60.100.60	1"	Hustler Chisel (4	Front/ 6 Rear)	60	2000
UEZ60.100.60.3	1"	Hustler Chisel (4	Front/ 6 Rear)	60	3000
UEZ60.100.65	1"	Hustler Chisel (4	Front/ 6 Rear)	65	3000
UEZ60.100.65.2	1"	Hustler Chisel (4	Front/ 6 Rear)	65	2000
UEZ60.100.80	1"	Hustler Chisel (4	Front/ 6 Rear)	80	2000
UEZ60.100.80.3	1"	Hustler Chisel (4	Front/ 6 Rear)	80	3000
UEZ60.100L	1"	Hustler Chisel (La	arge) (5 Front/ 6 Rear)	60	2000
UEZ60.100L-50	1"	Hustler Chisel (La	arge) (5 Front/ 6 Rear)	50	3000

Hustler Chisel (Large) (5 Front/ 6 Rear)

Hustler Chisel (Large) (5 Front/ 6 Rear)

65

80

2000

2000

UEZ60.100L-65

UEZ60.100L-80

1"

1"

3/4" and 1" Hustler Chisel Nozzles



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





UEZ30.075 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.



Rear jet angle: 17° Diameter: 2 1/2" Length: 8 1/4" Weight: 2 lbs. Made in the USA.



Part #	1 1 1 1 1 1 1 1 1
E9-135 /	E9-135V

FPI	
3/4"	

Aluminum Grease (1 Front/ 6 Rear)

Rear Jet Degree 17°

GPM 35 to 40

PSI

Up to 3000

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.

A9-11280



1"

		20	
Description	Rear Jet Degree	GPM	PSI
Dual Aluminum Sand	17° and 24°	50 to 65	1675 to 2000
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 D0-8 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.



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.



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: 1 7/8" Length: 10" Weight: 4.15 lbs. Made in the USA.





GPM	PSI
20	2000
20	4000
25	3000
	20 20

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.

Specifications

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: 2 7/8″ Length: 14 3/8″ Weight: 12.5 lbs. Made in the USA.

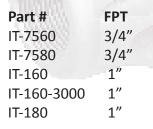
Part #	FPT	Description	Rear Jet Degree	GPM	PSI
UE48216	5-60 1"	Bulldozer	12°	60	Up to 2000
UE48216	5-80 1"	Bulldozer	12°	80	2000
UE48220)-60 1 1/4"	Bulldozer	12°	60	2000
UE48220)-80 11/4"	Bulldozer	12°	80	2000

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.

Specifications

Rear jet angle: 12° Diameter: 3 3/4" Length: 14 1/4" Weight: 15 lbs. Made in the USA.



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Description	Rear Jet Degree	GPM	PSI
Intruder	12°	60	2000
Intruder	12°	80	2000
Intruder	12°	60	2000
Intruder	12°	60	3000
Intruder	12°	80	2000

Petee Nozzle

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.

Specifications

Rear jet angle: 17° and 24°

Diameter: 5 3/4" Length: 18" Weight: 11.6 lbs. Made in the USA.

Part #	FPT
P100256	1"
P100280	1"





Rear Jet Degree	GPM	PSI
17° and 24°	60 to 65	1675 to 2000
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.

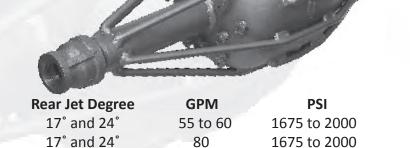
Replacement jet orifices are available.

Specifications

Rear jet angle: 17° and 24°

Diameter: 7 1/2" Length: 23" Weight: 28 lbs. Made in the USA.

Part #	FPT	Description
BP-301256	1"	Big Pete
BP-301280	1"	Big Pete



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, A4-2N50-3000 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.

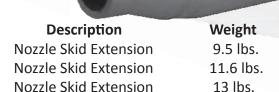
Tube Style Nozzle Skid Extension

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"



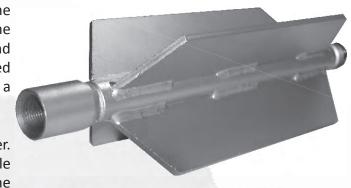
Finned Style Nozzle Skid Extension

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.
A0-6A D0-8	1" 1 1/4"	14 3/4" 17"	4 1/4" 6 3/4"	1 1/2" 2 1/2"	8 lbs. 13 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 Spiral Saw Blades

Supreme Spiral heavy duty saw blades are 2"wide x .156" thick, made of high tempered spring steel and old world heat treated to 50-54 Rockwell. This manufacturing process allows the spiral saw blades strength and longevity for the blade structure and teeth. The blade spring type characteristics allow minimal breakage when hitting misaligned joints and most obstructions.

In addition, the spiral design is perfect for cutting heavy roots or grease clogs in pipeline by allowing the operator to take small bites at a time to remove the obstruction. This design also allows the blade to ride over offset pipe more easily than flat blades that grab obstructions more aggressively. Supreme spiral saw blades are available in 4"-18" sizes and are also offered with a hub attached for quick installation on a 1" or 5/8" root cutter hub. These saws are painted grey to protect them from corrosion and rust. Made in the USA.



Part #	Description	Weight
7600-4	4" Supreme Spiral	1 lb.
7600-6	6" Supreme Spiral	2 lbs.
7600-8	8" Supreme Spiral	3 lbs.
7600-10	10" Supreme Spiral	5 lbs.
7600-12	12" Supreme Spiral	6 lbs.
7600-15	15" Supreme Spiral	6.5 lbs.
7600-18	18" Supreme Spiral	7.5 lbs.

Supreme Concave Saw Blades

Supreme Concave heavy duty saw blades are 2" wide x .156" thick, are made of high tempered spring steel and traditionally heat treated to 50-54 Rockwell. This provides strength and longevity to the blade and teeth structure that minimizes breakage in misaligned joints and most obstructions.

The concave design keeps the saw teeth off the side of the pipe to provide longer saw life for cutting or descaling relined or plastic pipe. These blades are also suitable for general root cutting in moderate root conditions. Heavy duty concave blades are supplied in 4"-18" and offered with an attached hub for quick installation on a 1" or 5/8" hydraulic root cutter. All of these blades are painted grey color to protect them from corrosion and rust.

Supreme Concave Saw Blades are intended for use with hydraulic root cutters and sectional (continuous) rod rodding machines. Made in the USA.



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Part #	Description	Weight
7600C-4	4" Supreme Concave	1 lb.
7600C-6	6" Supreme Concave	2 lbs.
7600C-8	8" Supreme Concave	3 lbs.
7600C-10	10" Supreme Concave	5 lbs.
7600C-12	12" Supreme Concave	6 lbs.
7600C-15	15" Supreme Concave	6.5 lbs.
7600C-18	18" Supreme Concave	7.5 lbs.

Supreme Flat Saw Blades

Supreme Flat heavy duty saw blades are 2"wide x .156 thick, are made from high tempered spring steel and are old world heat treated to 50-54 Rockwell to provide strength and longevity to the blade structure and teeth. The spring type characteristics of the blade provide minimal breakage when hitting misaligned joints and most obstructions.

These blades are best used for general root cutting in moderate root conditions. Supreme flat saw blades are available in 4"-18" sizes and are offered with a hub attached for rapid installation on a 1" or 5/8" hydraulic root cutter. The blades are painted grey to protect them from corrosion and rust.

Supreme Flat Saw Blades are intended for use with hydraulic root cutters and sectional (continuous) rod rodding machines. Made in the USA.



Part #	Description	Weight
7600F-4	4" Supreme Flat	1 lb.
7600F-6	6" Supreme Flat	2 lbs.
7600F-8	8" Supreme Flat	3 lbs.
7600F-10	10" Supreme Flat	5 lbs.
7600F-12	12" Supreme Flat	6 lbs.
7600F-15	15" Supreme Flat	6.5 lbs.
7600F-18	18" Supreme Flat	7.5 lbs.

Mainline Root Cutter Kits

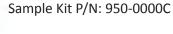
It has been said fewer options are the key to getting a job done. Mainline Root Cutter Kits were not born out of that theory. Starting with a standard Mainline motor, you can pick the type of skids; standard, wheeled or donut and then choose the type of saw blade that you would like for your application; 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 3/4" and 1" FPT. Made in the USA.

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









Mainline Motor



Regular Skid



Wheel Skid



Donut Skids



Flat Blade



Concave Blade



Spiral Blade

Lateral Root Cutter Kits

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

Like the mainline hydraulic root cutter motors, the lateral hydraulic root cutter 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 3/4" and 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.



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 Skids
950-2000S - Complete Kit with Spiral Blades - Lateral Skids
950-2000NB - Complete Kit with No Blades - Lateral Skids



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 P/N: 950-240



Lateral Skid Extensions: (sold individually) 6" P/N: 950-226 8" P/N: 950-228 10" P/N: 950-230 12" P/N: 950-232



Mainline Skid Assy: 6" P/N: 950-103 8" P/N: 950-104 10" P/N: 950-105 12" P/N: 950-106

15" P/N: 950-115



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



Donut Assy: Front P/N: 950-108 Rear P/N: 950-109



Mainline Thrust Bearing 950-39



Lateral Thrust Bearing P/N: 950-209



Mainline Motor P/N: 950-110



Mainline Motor W/ Tail Nozzle P/N: 950-111S (Skid) or P/N: 950-111D (Donut)



Mainline Tail Nozzle P/N: 950-100



Mainline Seal Kit P/N: 950-38



Lateral Motor P/N: 920-210



Lateral Motor W/Tail Nozzle P/N: 950-219



Lateral Tail Nozzle P/N: 950-212



Lateral Seal Kit P/N: 950-300 or P/N: 950-300YP

Mainline Key Lateral Key #950-32 #950-217

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	Weight
7700-4	4" Flex Blades (3 Pack)	.46 lbs.
7700-6	6" Flex Blades (3 Pack)	.67 lbs.
7700-8	8" Flex Blades (3 Pack)	.87 lbs.
7700-10	10" Flex Blades (3 Pack)	1.38 lbs.
7700-12	12" Flex Blades (3 Pack)	1.64 lbs.
7700-15	15" Flex Blades (3 Pack)	2.17 lbs.
7700-18	18" Flex Blades (3 Pack)	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 #	Description	Weight
960-200	5/8" Flex Cutter Chuck	1.5 lbs.
960-100	1" Flex Cutter Chuck	1.5 lbs.



5/8" and 1" Saw Blade Hub

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	Weight
950-220	5/8" Saw Blade Hub	1.1 lbs.
950-107	1" Saw Blade Hub	1.1 lbs.



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



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 $\frac{1}{2}$ " 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 transition into the pipe. Tyger-tail hoses are offered 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. Tyger-Tail hose is available in 2" and 3" in Lingths up to 50 feet NOTE: special Tyger-Tail lengths are available on request. Made in the USA.

ach End <u>#</u>	<u>Weight</u>	D0-69
		Complete Assemblies Relevating

Includes	Cuffs on	Fach	Fnd
IIICIUUCS	Cull3 Oll	Lacii	LIIU

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

2" x 36"	D0-69	3 lbs
3" x 36"	D0-89	5 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



<u>Size</u>	<u>Weight</u>	Max. Working
	(Per Foot)	<u>Pressure – PSI</u>
2"	.85 lbs	15
3"	1.60 lbs	7
Vacuum N	Nercury Inch – 29	

Many uses for the hose are:

- *Liquid or material suction from machine to machine
- *Liquid transfer from truck to depot
- *Liquid transfer from vat to tank
- *Construction and excavation
- *Protection for sewer cleaning hose
- *Protection for televising tv cable

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	Weight
UST-6	6" Aluminum Sand Trap	3 lbs.
UST-8	8" Aluminum Sand Trap	7.25 lbs.
UST-10	10" Aluminum Sand Trap	10.5 lbs.
UST-12	12" Aluminum Sand Trap	15 lbs.
UST-15	15" Steel Sand Trap	47.5 lbs.
UST-18	18" Steel Sand Trap	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
UE070-6101	6" to 10" (5.5" to 10.5") Flow-Through Plug
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
UE070-20361	24" to 36" (22" to 36") Flow-Through Plug
UE070-24481	36" to 48" (34" to 48") Flow-Through Plug
UE070-36601	38" to 60" (46" to 60") Flow-Through Plug



UEM110 Hydraulic Swage Machine

For use in the repair of Thermoplastic Sewer Cleaning Hose



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-coated dies and applicable color-coated 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 Hannifin Company. 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"	Е
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"	Е
DP12TH	Pusher Plate 2500 & 3000 PSI	3/4"	D
DS16TH	Die Set (2500 PSI)	1"	Е
DP16TH	Pusher Plate (2500 & 3000 PSI)	1"	D
UE1162-FP	Female Pusher	1"	
DS20TH	Die Set	1 1/4"	Е
DP20TH	Pusher Plate	1 1/4"	D
UEM5050FS	Female Swivel Adapter (FxF)	1/2"	С









HYDRAULIC SWAGE
MACHINE W/WHEELS

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

^{*}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.

Parker[®] Mending Equipment

To be used on the UEM110 Hydraulic Swage Machine.



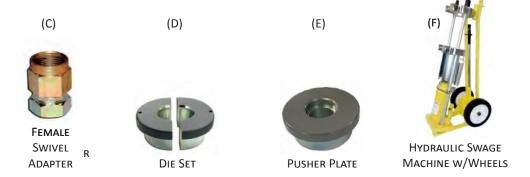
CAUTION

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	ITEM PHOTO
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	Е
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



Eaton[®] Mending Equipment

To be used on the UEM110 Hydraulic Swage Machine.



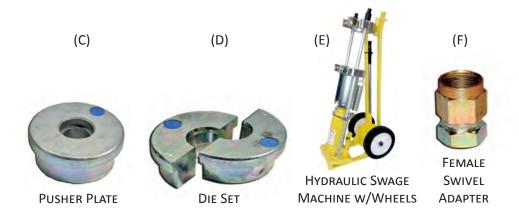
CAUTION

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	ITEM PHOTO
UEM110	Swage Machine Only	w/o Wheels	Е
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 C	
U44173	Die Set	1 1/4" x 2500 PSI	
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





BRUTUS

HEAVY DUTY PORTABLE SWAGE MACHINE FOR PIRANHA SEWER CLEANING HOSE

 $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1", 1-1/4"

LB04-08 1/4" - 1/2" NPT MACHINE	BB12-20 3	3/4" - 1-1/4" NPT MACHINE
DPS04NPT-PS PUSHER 1/4" LB	DS04	DIE SET 1/4" LB
DPS06NPT-PS PUSHER 3/8" LB	DS06	DIE SET 3/8" LB
DPS08NPT-PS PUSHER 1/2" LB	DS08	DIE SET 1/2" LB
DPS12NPT-PL PUSHER 3/4" LB	DS12	DIE SET 3/4" LB
DPS16NPT-PL PUSHER 1" LB	DS16	DIE SET 1" LB
DPS20NPT-PL PUSHER 1-1/4" LB	DS20	DIE SET 1-1/4" LB