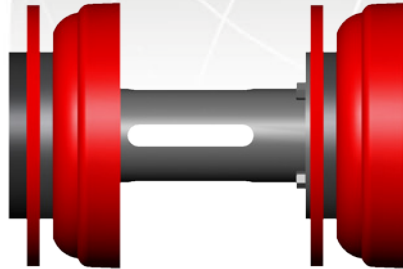
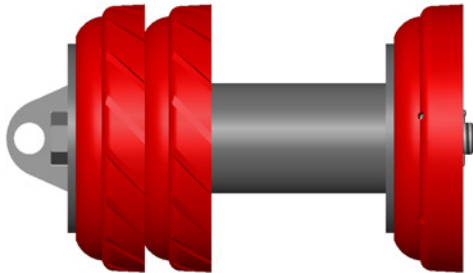


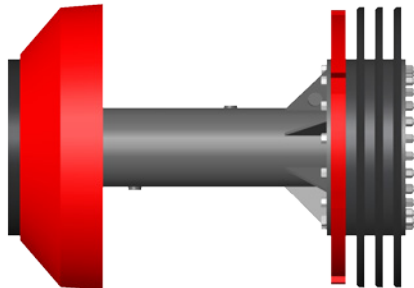
# SPECIALTY



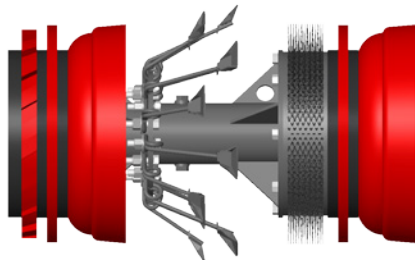
**UT MANDREL**  
Pg. 3-2



**JETTED CUP**  
Pg. 3-3 to 3-5



**FILMING PIGS**  
Pg. 3-6



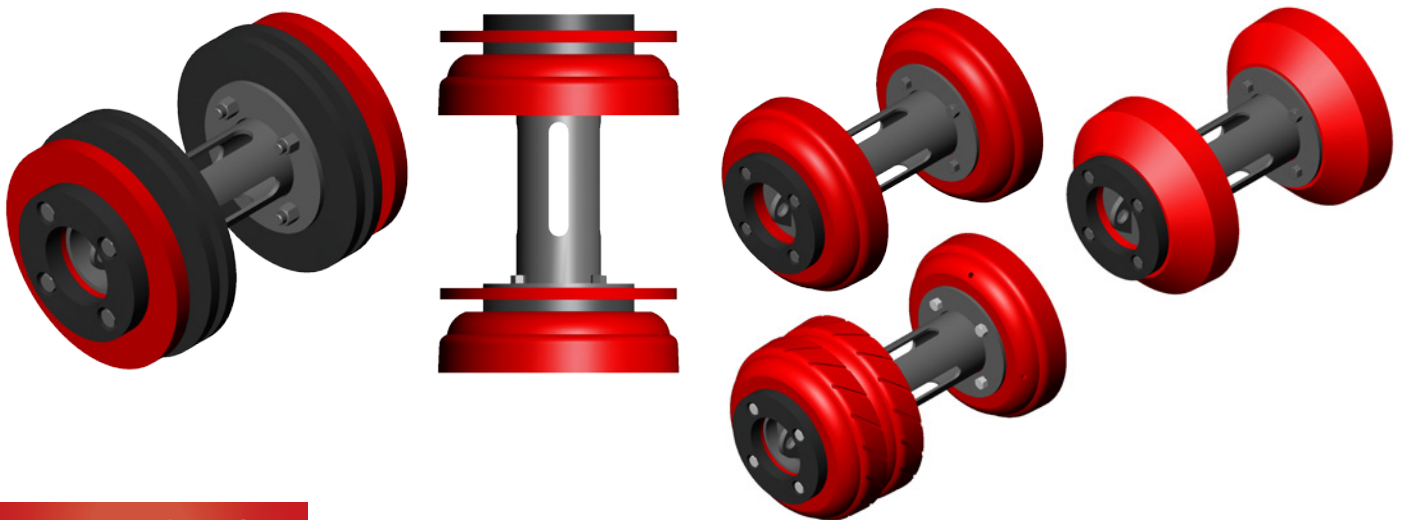
**KNIFE PIG**  
Pg. 3-7

# SPECIALTY

## UT MANDREL OPTION

6-14" (52-356mm)

The UT mandrel is one very useful pig. Although its primary design feature is to house a transmitter located in the center of the slotted universal mandrel, it can also accommodate virtually any configuration of cup, disc and brush. This also allows the pig to clean and batch many dissimilar fluids.



### Features & Benefits:

- The UT is the only small diameter steel mandrel pig we manufacture that features a transmitter cavity in the middle of the mandrel to accommodate electronic pig tracking equipment.
- Standard bumper noses cushion the pig and help to protect in-line auxiliary equipment, preventing damage.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.

### Options Available:

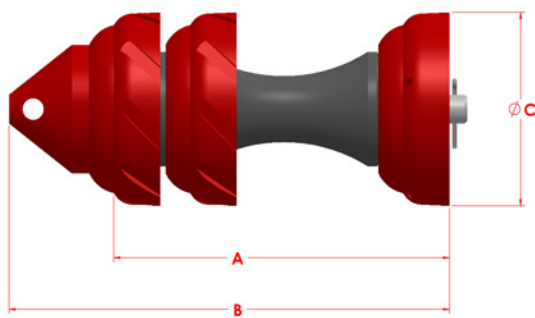
- Circular flange brushes in the following types and trim materials:
  1. Trim types – flat wire or pencil.
  2. Trim material – carbon steel, stainless steel or plastic.
- CARVER discs.
- Aluminum gauge plates in slotted or standard styles.
- Magnets can be used to either collect ferrous and other construction debris, or they can be used to provide a change in magnetic field required by non-intrusive pig signaler detection devices.

# SPECIALTY

## JETTED CUP

2-4" (76-102mm)

The JC Cup is a powerful pig that provides moderate cleaning. It combines all of the advantages of the Apache Series C Cup with the force of jetting action, essentially power-washing the pipeline. The grooves in the cup's surface create five times the cleaning surface, making it possible to aim a calibrated amount of fluid to pummel the pipe wall, jetting away – and suspending – stubborn wax, sand or other debris.



Size	A	B	C	Weight	Part #
2"	3.875	5.250	2.125	1.0	70-3803-02
3"	5.625	7.825	3.375	2.0	70-3803-03
4"	7.000	9.750	4.375	3.0	70-3803-04

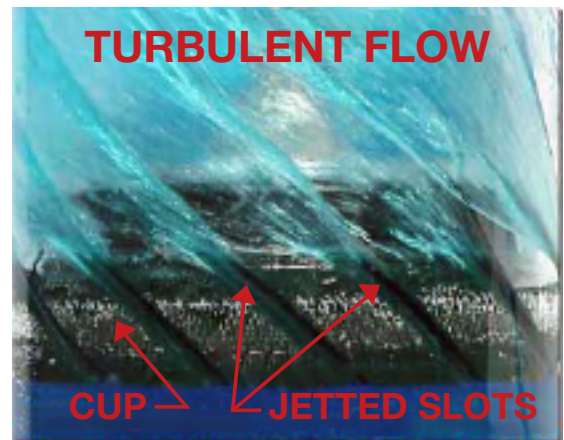
### Features & Benefits:

- Every JC pig is equipped with two standard JC Series Cups and one rear-ported Series C Cup. This pig is very effective in low flow applications.
- As with all of Apache products, these cups were specifically developed to perform, efficiently and reliably.
- To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.

Designed to negotiate 1.5D bends, the JC3 pig moves reliably through piping systems.

### Options Available:

- Circular flange brushes in various trim materials, carbon steel, stainless steel, plastic or pencil brushes.
- CARVER discs.
- Aluminum gauge plates in standard styles.
- Magnets can be used to either collect ferrous and other construction debris, or they can be used to provide a change in magnetic field required by non-intrusive pig signaler detection devices.



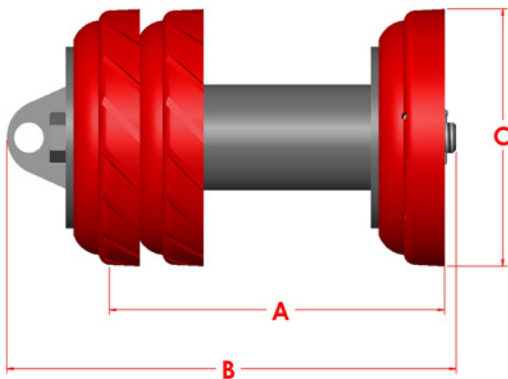
Check out [apachepipe.com/animations/](http://apachepipe.com/animations/) for videos on jetted cups.

# SPECIALTY

## JETTED CUP

6-14" (152-356mm)

The JC Cup is a powerful pig that provides moderate cleaning. It combines all of the advantages of the Apache Series C Cup with the force of jetting action, essentially power-washing the pipeline. The grooves in the cup's surface create five times the cleaning surface, making it possible to aim a calibrated amount of fluid to pummel the pipe wall, jetting away – and suspending – stubborn wax, sand or other debris.



Size	A	B	C	Weight	Part #
6"	9.875	13.750	6.375	15	70-3803-06
8"	11.375	15.250	8.500	26	70-3803-08
10"	15.250	19.500	10.625	47	70-3803-10
12"	18.250	22.750	12.500	64	70-3803-12
14"	21.250	25.875	13.875	75	70-3803-14

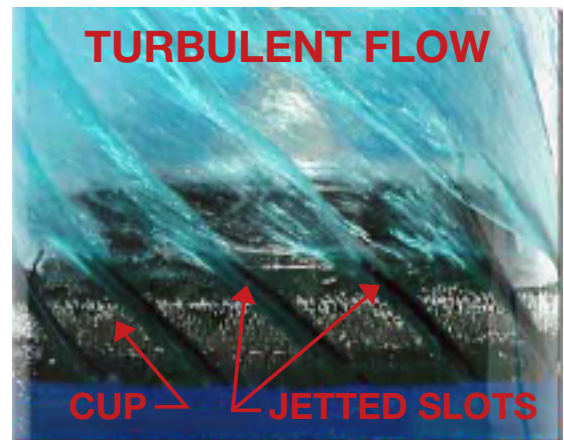
### Features & Benefits:

- Every JC pig is equipped with two standard JC Series Cups and one rear-ported Series C Cup. This pig is very effective in low flow applications.
- As with all of Apache products, these cups were specifically developed to perform, efficiently and reliably.
- To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.

Designed to negotiate 1.5D bends, the JC3 pig moves reliably through piping systems.

### Options Available:

- Circular flange brushes in various trim materials, carbon steel, stainless steel, plastic or pencil brushes.
- UT Mandrel to accommodate electronic tracking equipment.
- CARVER discs.
- Aluminum gauge plates in standard styles.
- Magnets can be used to either collect ferrous and other construction debris, or they can be used to provide a change in magnetic field required by non-intrusive pig signaler detection devices.



Check out [apachepipe.com/animations/](http://apachepipe.com/animations/) for videos on jetted cups.

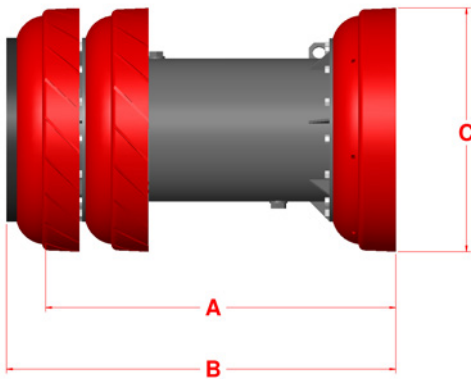


# SPECIALTY

## JETTED CUP

16-48" (406-1219mm)

The JC Cup is a powerful pig that provides moderate cleaning. It combines all of the advantages of the Apache Series C Cup with the force of jetting action, essentially power-washing the pipeline. The grooves in the cup's surface create five times the cleaning surface, making it possible to aim a calibrated amount of fluid to pummel the pipe wall, jetting away – and suspending – stubborn wax, sand or other debris.

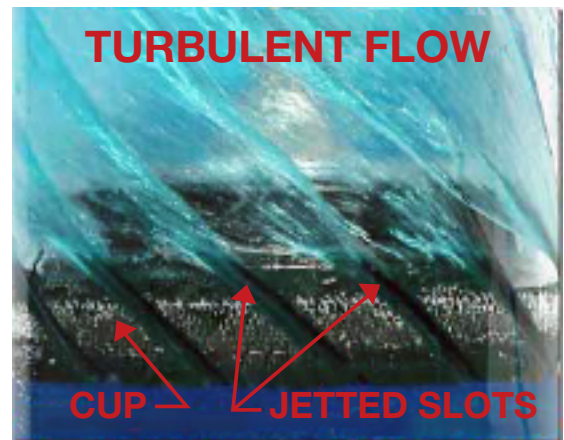


Size	A	B	C	Weight	Part #
16"	22.500	25.875	16.000	115	70-3803-16
20"	28.500	32.375	19.875	187	70-3803-20
22"	31.375	35.500	21.875	215	70-3803-22
24"	34.375	38.250	23.875	269	70-3803-24
30"	42.125	47.125	29.875	426	70-3803-30
36"	49.250	54.750	36.000	644	70-3803-36
42"	56.500	62.500	42.125	942	70-3803-42
48"	61.625	68.125	48.500	1141	70-3803-48

### Features & Benefits:

- Every JC pig is equipped with two standard JC Series Cups and one rear-ported Series C Cup. This pig is very effective in low flow applications.
- Every Apache JC3 16" - 48" pig is manufactured with by-pass ports. These ports feature threaded plugs that can be removed, should by-pass be required. By removing by-pass plugs, a portion of product flow is redirected through these openings. The debris is suspended in the turbulent flow and transferred ahead of the pig.
- Standard bumper noses cushion the pig and help to protect in-line auxiliary equipment, preventing damage.

Designed to negotiate 1.5 bends, the JC3 pig moves reliably through piping systems.



### Options Available:

- Circular flange brushes or block brushes in the following types and trim materials:
  1. Trim types – flat wire or pencil.
  2. Trim material – carbon steel, stainless steel, plastic, or tin-coated.
- CARVER discs.
- Aluminum gauge plates in slotted or standard styles.
- Magnets can be used to either collect ferrous and other construction debris, or they can be used to provide a change in magnetic field required by non-intrusive pig signaler detection devices.



Check out [apachepipe.com/animations/](http://apachepipe.com/animations/) for videos on jetted cups.

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3-5

*world class world wide*

# SPECIALTY

## FILMING PIGS

16-48" (406-1219mm)

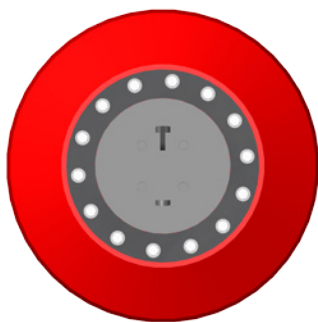
Stop corrosion in its tracks. That's what we set out to do when we developed the Apache Filming Pig. As every pipeline engineer knows, coating the interior of the line with a quality corrosion inhibitor is one of the best ways to prevent corrosion. The challenge? How to apply inhibitor in a controlled manner.

The Filming Pig was designed for one purpose: to apply a film of inhibitor with 360-degree coverage on the interior pipe wall.

The unique design of the 16" – 48" Filming Pig features a hollow front mandrel with two equalization ports that are removed from the center of the mandrel. By doing so, inhibitor is allowed to travel through the hollow front mandrel and two port holes located on either side. Inhibitor becomes trapped between the front conical cup, back three soft filming discs and support disc, leaving a film of inhibitor on the pipe wall.

Every Apache FP 16"- 48" pig is manufactured with by-pass ports. These ports feature threaded plugs that need to be removed, should by-pass be required. By removing the by-pass plugs, a portion of product flow is redirected through these openings.

Designed to negotiate 1.5D bends, the Filming Pig moves reliably through piping systems.



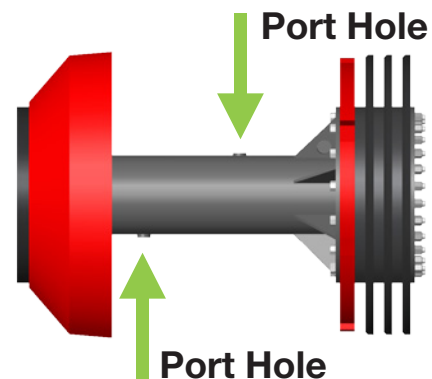
**Front**

With hollow cavity

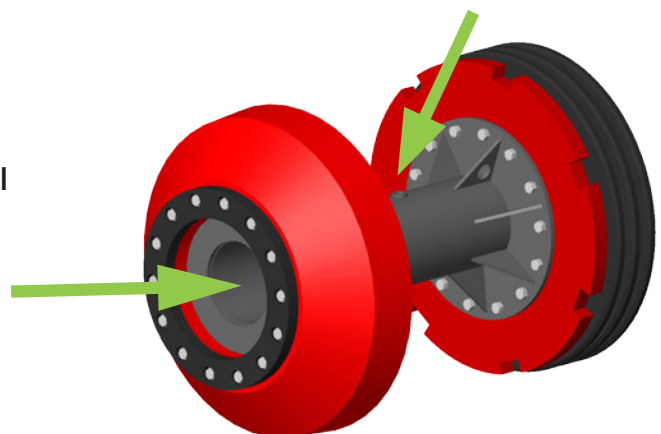


**Back**

Flange plate with  
eyelet for lifting



**Port Hole**



Inhibitor travels through the hollow front mandrel and two port holes located on either side of the mandrel, ultimately leaving a film of protective corrosion inhibitor on the pipe wall.



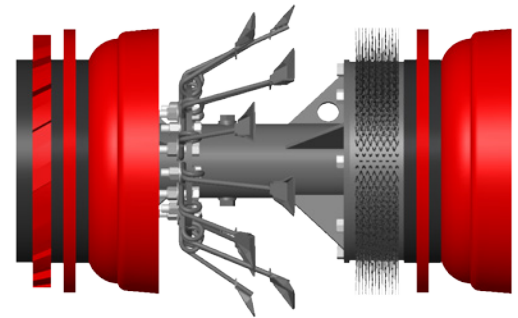
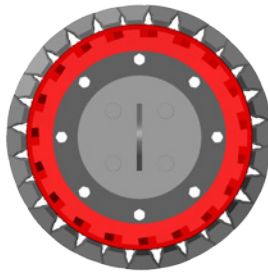
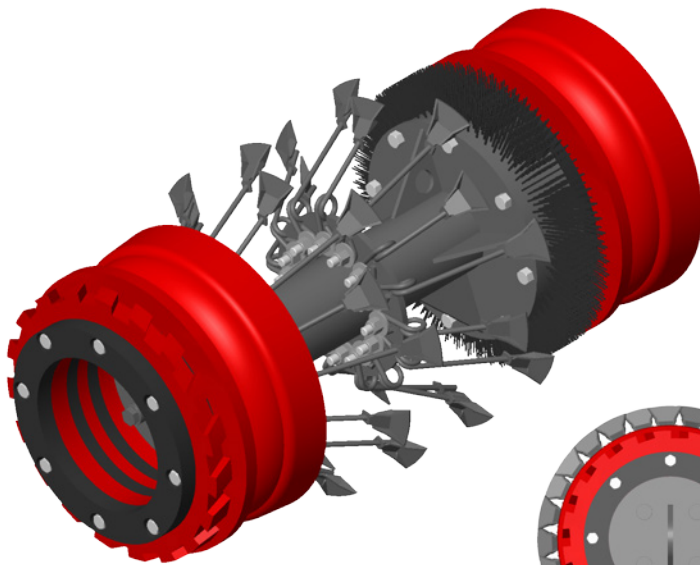
Check out [apachepipe.com/animations.html](http://apachepipe.com/animations.html) for videos on filming pigs.

# SPECIALTY

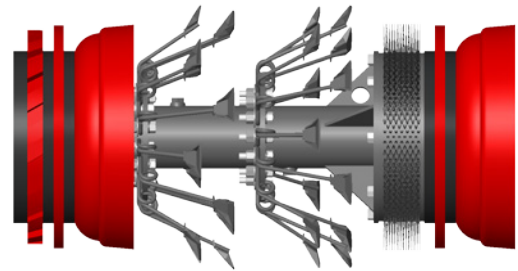
## KNIFE PIG

**HEAVY DUTY AND DURABLE METAL/CARBIDE SCRAPING KNIVES PROVIDE THE ULTIMATE CLEAN.**

Individually spring mounted Apache knives distribute force evenly to the pipe wall.



**3D TOOL**



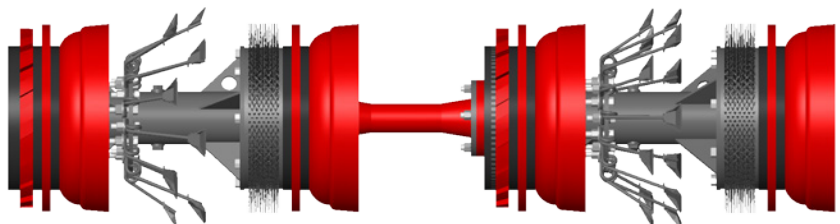
**5D TOOL**

### Features & Benefits:

- Extremely aggressive cleaning/scraping
- 5D tools provide 360° knife coverage
- 3D tools provide about 70% knife coverage
- Single row provides 3D capabilities

### Options Available:

- CARVER Disc
- Gauge Plate
- Transmitter Cavity
- Knuckle Joint to Tether Two Pigs



**KNUCKLE JOINT**