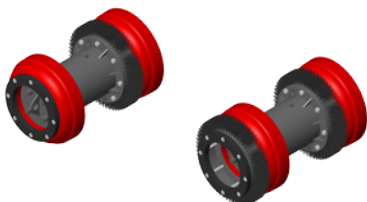


STEEL MANDREL PIGS



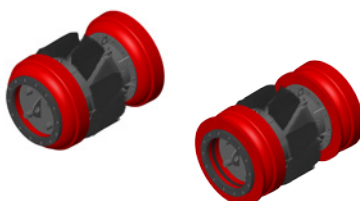
LIGHT CLEANING

Pg. 2-2 to 2-12



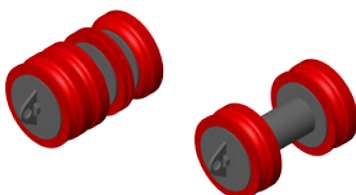
MODERATE CLEANING

Pg. 2-13 to 2-25



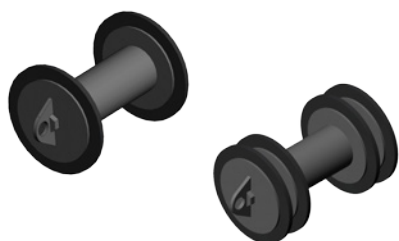
AGGRESSIVE CLEANING

Pg. 2-26 to 2-30



BATCHING

Pg. 2-31 to 2-42



DISPLACEMENT

Pg. 2-43 to 2-47



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LIGHT CLEANING

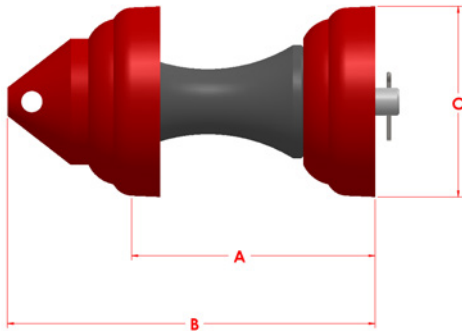
UC2

2-4" (51-102mm)

The Series UC2 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more effective cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| Size | A | B | C | Weight | Part # |
|------|-------|-------|-------|--------|------------|
| 2" | 3.00 | 4.375 | 2.125 | 1.0 | 70-3802-02 |
| 3" | 4.250 | 6.500 | 3.375 | 2.0 | 70-3802-03 |
| 4" | 5.500 | 8.250 | 4.375 | 3.0 | 70-3802-04 |

Features & Benefits:

- Every Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate 1.5D bends, the Series UC2 pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- Aluminum gauge plates in standard styles.
- Three (UC3) and four cup (UC4) configurations.
- 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.

LIGHT CLEANING

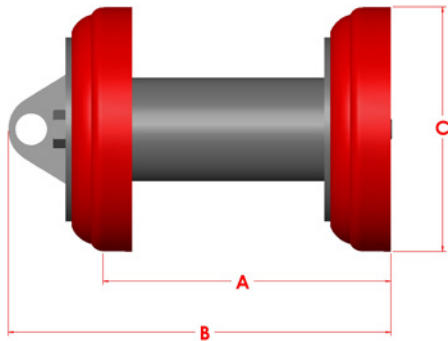
UC2

6-14" (152-356mm)

The Series UC2 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more effective cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 7.750 | 11.750 | 6.375 | 11 | 70-3802-06 |
| 8" | 10.125 | 14.000 | 8.500 | 20 | 70-3802-08 |
| 10" | 12.500 | 16.750 | 10.625 | 35 | 70-3802-10 |
| 12" | 15.000 | 19.000 | 12.500 | 46 | 70-3802-12 |
| 14" | 17.375 | 21.000 | 13.875 | 54 | 70-3802-14 |

Features & Benefits:

- Every Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate 1.5D bends, the Series UC2 pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- UT Mandrel to accommodate electronic tracking equipment.
- Aluminum gauge plates in standard styles.
- Three (UC3) and four cup (UC4) configurations.
- 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.

LIGHT CLEANING

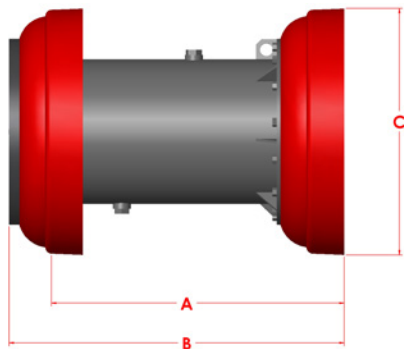
UC2

16-48" (406-1219mm)

The Series UC2 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more powerful cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 17.875 | 21.125 | 16.000 | 83 | 70-3802-16 |
| 20" | 22.625 | 26.375 | 19.875 | 134 | 70-3802-20 |
| 22" | 24.750 | 28.875 | 21.875 | 153 | 70-3802-22 |
| 24" | 27.375 | 31.500 | 23.875 | 197 | 70-3802-24 |
| 30" | 33.750 | 38.875 | 29.875 | 307 | 70-3802-30 |
| 36" | 40.125 | 45.750 | 36.000 | 472 | 70-3802-36 |
| 42" | 46.750 | 52.750 | 42.125 | 685 | 70-3802-42 |
| 48" | 51.000 | 57.500 | 48.500 | 849 | 70-3802-48 |

Features & Benefits:

- Every Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- Every Apache UC2 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 1.5D bends, the UC2 Series pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- Rattlers.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Three (UC3) and four cup (UC4) configurations.

LIGHT CLEANING

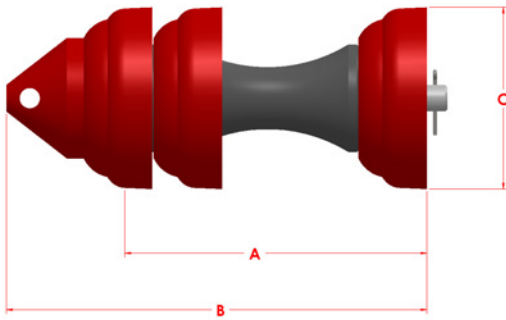
UC3

2-4" (51-102mm)

The Series UC3 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more powerful cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| 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 Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate minimum 1.5D and greater bends, the UC3 pig moves reliably through piping systems.

Options Available:

- 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.
- Two (UC2) and four cup (UC4) configurations.

LIGHT CLEANING

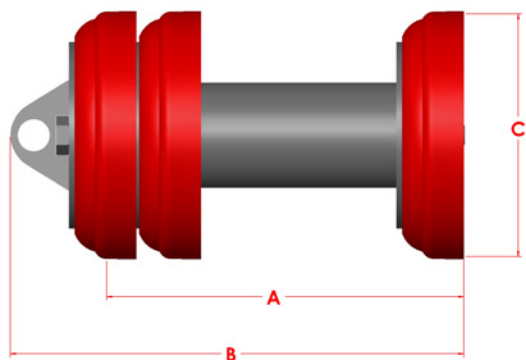
UC3

6-14" (152-356mm)

The Series UC3 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more powerful cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| 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 Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate minimum 1.5D and greater bends, the UC3 pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.
- Two (UC2) and four cup (UC4) configurations.

LIGHT CLEANING

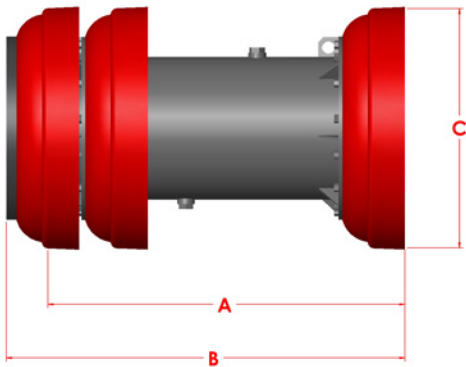
UC3

16-48" (406-1219mm)

The Series UC3 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more powerful cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| 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 Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- Every Apache UC3 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 minimum 1.5D and greater bends, the UC3 pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- Rattlers.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Two (UC2) and four cup (UC4) configurations.

LIGHT CLEANING

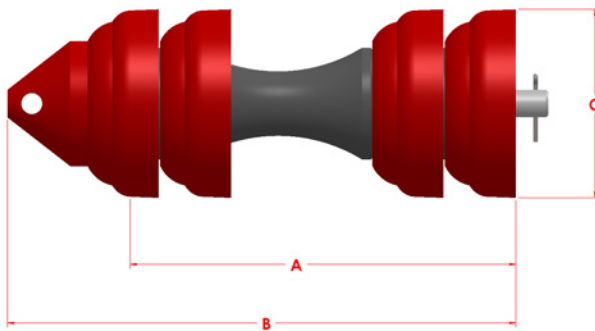
UC4

2-4" (51-102mm)

The Series UC4 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more powerful cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| Size | A | B | C | Weight | Part # |
|------|-------|--------|-------|--------|------------|
| 2" | 4.750 | 6.125 | 2.125 | 1.0 | 70-3804-02 |
| 3" | 6.875 | 9.125 | 3.375 | 2.0 | 70-3804-03 |
| 4" | 8.375 | 11.125 | 4.375 | 3.0 | 70-3804-04 |

Features & Benefits:

- Every Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate minimum 1.5D and greater bends, the UC4 pig moves reliably through piping systems.

Options Available:

- 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.
- Two (UC2) and three cup (UC3) configurations.

LIGHT CLEANING

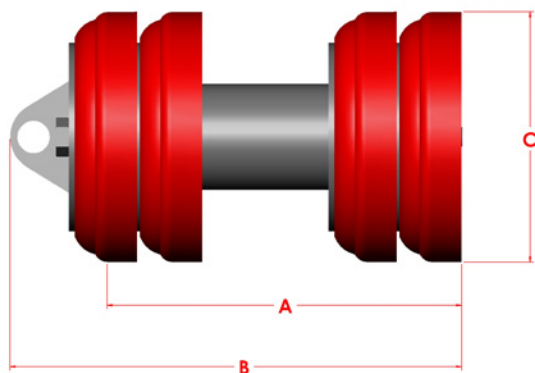
UC4

6-14" (152-356mm)

The Series UC4 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more powerful cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 8.875 | 12.750 | 6.375 | 18 | 70-3804-06 |
| 8" | 12.000 | 15.750 | 8.500 | 32 | 70-3804-08 |
| 10" | 14.500 | 18.750 | 10.625 | 56 | 70-3804-10 |
| 12" | 18.125 | 22.500 | 12.500 | 78 | 70-3804-12 |
| 14" | 21.125 | 25.750 | 13.875 | 91 | 70-3804-14 |

Features & Benefits:

- Every Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate minimum 1.5D and greater bends, the UC4 pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.
- Two (UC2) and three cup (UC3) configurations.

LIGHT CLEANING

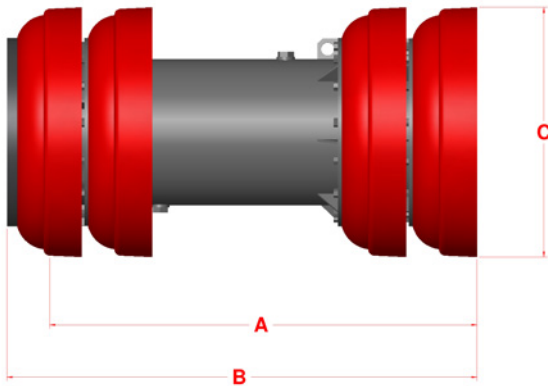
UC4

16-48" (406-1219mm)

The Series UC4 pig is another great example of how Apache provides the pipeline industry with tools that get the job done.

Let's face it, during the construction phase, it can be a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UC just for this purpose. The Series UC is primarily used for light cleaning during the construction phase and can be used in all phases of pipeline cleaning.

At times it's necessary to clean a line more rigorously, which requires additional cups. With this in mind, the Series UC is available in three versions. The two-cup design of the UC2 pig provides a basic level of light cleaning capability. With each additional cup, the Series UC pig cleans more rigorously. Therefore, the UC3 three-cup and UC4 four-cup design pigs are progressively more powerful cleaning tools. They are used to lightly clean pipelines, and are typically used for longer distances.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 27.375 | 30.625 | 16.000 | 148 | 70-3804-16 |
| 20" | 34.625 | 38.375 | 19.875 | 240 | 70-3804-20 |
| 22" | 37.875 | 42.000 | 21.875 | 277 | 70-3804-22 |
| 24" | 40.875 | 45.000 | 23.875 | 342 | 70-3804-24 |
| 30" | 50.500 | 55.500 | 29.875 | 544 | 70-3804-30 |
| 36" | 58.250 | 63.750 | 36.000 | 815 | 70-3804-36 |
| 42" | 66.125 | 72.125 | 42.125 | 1198 | 70-3804-42 |
| 48" | 72.375 | 78.875 | 48.500 | 1432 | 70-3804-48 |

Features & Benefits:

- Every Series UC pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- Every Apache UC4 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 minimum 1.5D and greater bends, the UC4 pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- Rattlers.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Two (UC2) and three cup (UC3) configurations.

LIGHT CLEANING

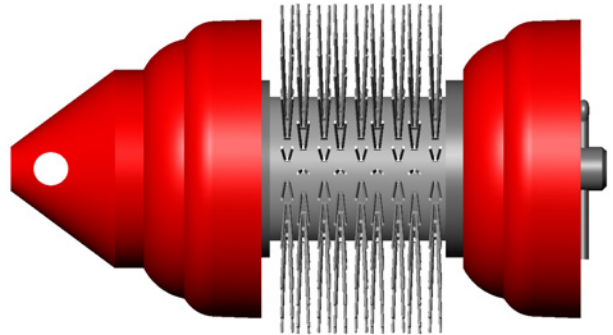
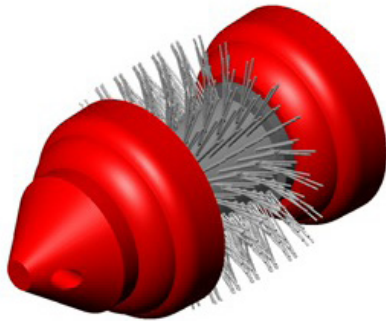
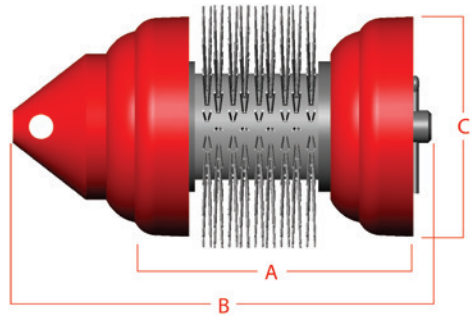
SC2A

3-4" (76-102mm)

As the saying goes, "good things come in small packages." Apache developed the Series SC2A pig to give smaller gathering lines a moderate cleaning.

The result? The line is free of debris and flow rates improve. With the cleaning capability of the pitPRO™ steel brush and ability to negotiate sharp bends, the Series SCA is an extremely efficient cleaning tool.

| Size | A | B | C | Weight | Part # |
|------|-------|-------|-------|--------|------------|
| 3" | 5.750 | 7.750 | 3.375 | 3.0 | 60-3002-03 |
| 4" | 5.875 | 8.375 | 4.375 | 5.0 | 60-3002-04 |



Features & Benefits:

- The SC2A pig features two cups and pitPRO™ stainless steel brush.
- Every Series SCA pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate 1.5D bends, the Series SC2A pig moves reliably through piping systems.

Options Available:

- Aluminum Mandrel.

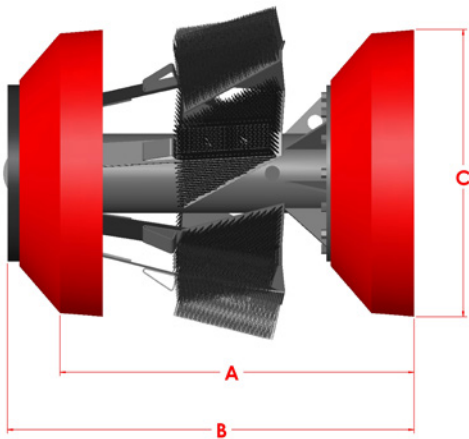
LIGHT CLEANING

UM2X

16-48" (406-1219mm)

The Series UM2X with block brush provides light cleaning during the construction phase, as well as regular pipeline operations.

How is this possible? The answer lies in the three versions of the UMX. While the two-cup design of the UM2X pig efficiently cleans and scrapes pipelines, the UM3X three-cup and UM4X four-cup design pigs. They are both used to gently clean pipelines. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 22.000 | 25.000 | 15.875 | 104 | 60-5142-16 |
| 20" | 27.250 | 30.875 | 20.000 | 165 | 60-5142-20 |
| 22" | 29.125 | 31.500 | 22.000 | 212 | 60-5142-22 |
| 24" | 29.500 | 33.875 | 24.000 | 230 | 60-5142-24 |
| 30" | 39.750 | 44.875 | 29.875 | 388 | 60-5142-30 |
| 36" | 45.750 | 52.250 | 36.000 | 551 | 60-5142-36 |
| 42" | 54.125 | 61.375 | 42.125 | 763 | 60-5142-42 |
| 48" | 60.375 | 68.625 | 48.125 | 937 | 60-5142-48 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache UM2X 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 the 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 in-line auxiliary equipment, preventing damage.

Designed to negotiate 1.5D bends, the Series UM2X 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.
- Aluminum or steel gauging plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.
- Rattlers.

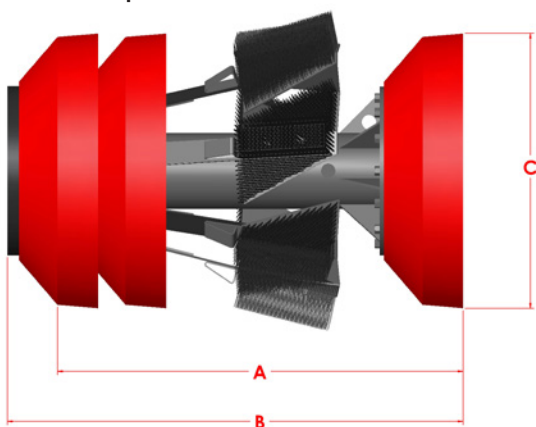
MODERATE CLEANING

UM3X

16-48" (406-1219mm)

The Series UM3X with block brush provides moderate cleaning during the construction phase, as well as regular pipeline operations.

How is this possible? The answer lies in the three versions of the UMX. While the two-cup design of the UM2X pig efficiently cleans and scrapes pipelines, the UM3X three-cup and UM4X four-cup design pigs each provide a positive seal between dissimilar fluids. They are both used to gently clean pipelines. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 26.000 | 29.000 | 15.875 | 129 | 60-5143-16 |
| 20" | 33.250 | 36.875 | 20.000 | 212 | 60-5143-20 |
| 22" | 35.875 | 39.750 | 22.000 | 268 | 60-5143-22 |
| 24" | 36.500 | 40.875 | 24.000 | 301 | 60-5143-24 |
| 30" | 48.500 | 53.625 | 29.875 | 502 | 60-5143-30 |
| 36" | 55.125 | 61.750 | 36.000 | 716 | 60-5143-36 |
| 42" | 66.250 | 73.500 | 42.125 | 1015 | 60-5143-42 |
| 48" | 74.625 | 83.000 | 48.125 | 1244 | 60-5143-48 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache UM3X 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 the 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 in-line auxiliary equipment, preventing damage.

Designed to negotiate 1.5D bends, the Series UM3X 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.
- Aluminum or steel gauging plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.
- Rattlers.

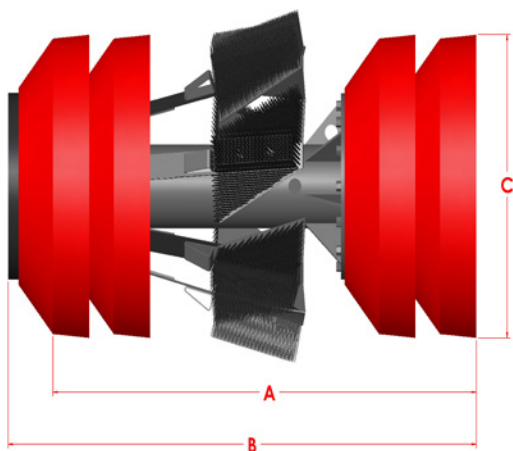
MODERATE CLEANING

UM4X

16-48" (406-1219mm)

The Series UM4X with block brush provides moderate cleaning during the construction phase, as well as regular pipeline operations.

How is this possible? The answer lies in the three versions of the UMX. While the two-cup design of the UM2X pig efficiently cleans and scrapes pipelines, the UM3X three-cup and UM4X four-cup design pigs are used to gently clean pipelines. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 30.000 | 33.125 | 15.875 | 154 | 60-5144-16 |
| 20" | 39.250 | 42.875 | 20.000 | 257 | 60-5144-20 |
| 22" | 42.500 | 46.375 | 22.000 | 324 | 60-5144-22 |
| 24" | 43.500 | 47.875 | 24.000 | 372 | 60-5144-24 |
| 30" | 57.250 | 62.375 | 29.875 | 613 | 60-5144-30 |
| 36" | 64.625 | 71.125 | 36.000 | 879 | 60-5144-36 |
| 42" | 78.500 | 85.750 | 42.125 | 1264 | 60-5144-42 |
| 48" | 88.875 | 97.250 | 48.125 | 1550 | 60-5144-48 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache UM4X 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 the 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 in-line auxiliary equipment, preventing damage.

Designed to negotiate 1.5D bends, the Series UM4X 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.
- Aluminum or steel gauging plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.
- Rattlers.

1575 - 90 Ave Edmonton, AB Canada T6P 0E2

2-14 Ph: 780.416.4850 | Fax: 780.416.4829 | apachepipe.com | Email: sales@apachepipe.com

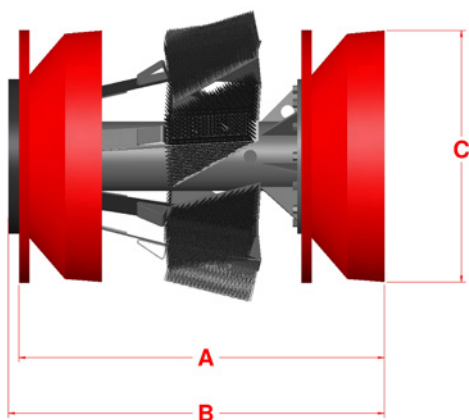
world class world wide

MODERATE CLEANING

DMDX

16-48" (406-1219mm)

Looking for more effective cleaning and sealing capacity? Then look no further than the Series DMDX. Every DMDX is equipped with two sealing discs and two Series M Cups. What sets the DMDX apart is that it features brushes that further enhance cleaning performance. These multiple sealing components provide a bigger surface area. As a result, its sealing capacity, scraping capability, and overall cleaning ability is greatly improved.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 25.500 | 26.500 | 15.875 | 115 | 60-6900-16 |
| 20" | 31.500 | 32.500 | 20.000 | 187 | 60-6900-20 |
| 22" | 33.875 | 34.875 | 22.000 | 236 | 60-6900-22 |
| 24" | 34.875 | 35.875 | 24.000 | 264 | 60-6900-24 |
| 30" | 46.000 | 47.125 | 29.875 | 444 | 60-6900-30 |
| 36" | 53.625 | 55.000 | 36.000 | 653 | 60-6900-36 |
| 42" | 62.875 | 64.375 | 42.125 | 912 | 60-6900-42 |
| 48" | 70.500 | 72.125 | 48.125 | 1106 | 60-6900-48 |

Features & Benefits:

- The DMDX pig is configured to offer a sealing arrangement that is used to separate dissimilar fluids, and to moderately scrape pipelines during longer distance operations.
- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies without damaging essential inline auxiliary equipment.
- Every Series DMDX pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- Every Apache DMDX 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 the 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 1.5D bends, the DMDX pig moves reliably through piping systems.

Options Available:

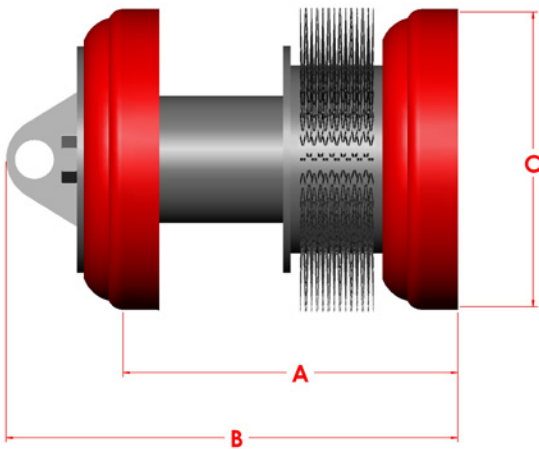
- Circular flange brushes or block brushes in the following types and trim materials:
 1. Trim types – flat wire or pencil.
 2. Trim material – carbon steel, stainless steel, plastic or tin-coated.
- Aluminum or steel gauging plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.
- Rattlers.

MODERATE CLEANING

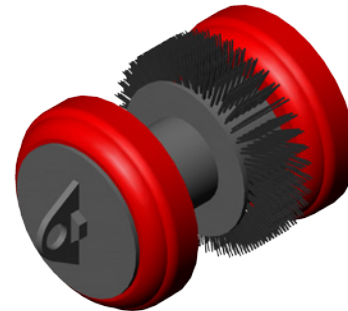
SC2R

6-14" (152-356mm)

The Series SC2R is one powerful cleaning tool. Apache developed the Series SCR pig to deliver a moderate cleaning capability to clean all types of pipelines. The result? The line is free of debris and flow rates improve. With the scrubbing capability of the sturdy pitPRO™ or circular flange brush, the Series SCR provides outstanding cleaning ability.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 7.750 | 11.000 | 6.375 | 13 | 60-3075-06 |
| 8" | 10.000 | 13.500 | 8.500 | 23 | 60-3075-08 |
| 10" | 11.875 | 16.000 | 10.625 | 38 | 60-3075-10 |
| 12" | 14.625 | 19.125 | 12.750 | 53 | 60-3075-12 |
| 14" | 17.125 | 21.750 | 13.875 | 62 | 60-3075-14 |



Features & Benefits:

- The SC2R pig features two cups and one circular flange brush.
- Every Series SC2R pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform, efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- To use a Series SC2R pig for different applications, elements and brushes can simply be added or reconfigured.

Designed to negotiate 1.5D bends, the Series SC2R pig moves reliably through piping systems.

Options Available:

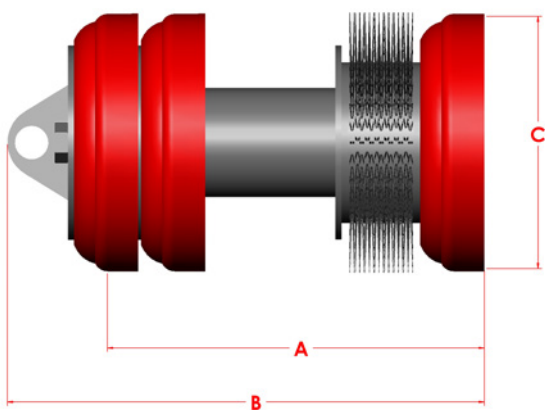
- Circular flange brushes in the following types and trim materials:
 1. Trim types – flat wire or pencil.
 2. Trim material – carbon steel, stainless steel or plastic.
- UT Mandrel to accommodate electronic tracking equipment.
- Aluminum gauge plates in slotted or standard styles.
- Magnets can be used 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.
- Three (SC3R) and four cup (SC4R) configurations.

MODERATE CLEANING

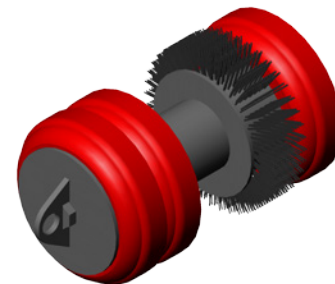
SC3R

6-14" (152-356mm)

The Series SC3R is one powerful cleaning tool. Apache developed the Series SC3R pig to deliver a moderate cleaning capability to clean all types of pipelines. The result? The line is free of debris and flow rates improve. With the scrubbing capability of the sturdy pitPRO™ or circular flange brush, the Series SCR provides outstanding cleaning ability.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 7.750 | 11.000 | 6.375 | 15 | 60-3076-06 |
| 8" | 10.750 | 14.125 | 8.500 | 28 | 60-3076-08 |
| 10" | 12.625 | 16.750 | 10.625 | 48 | 60-3076-10 |
| 12" | 15.500 | 20.000 | 12.750 | 69 | 60-3076-12 |
| 14" | 17.500 | 22.125 | 13.875 | 79 | 60-3076-14 |



Features & Benefits:

- The SC3R pig features three cups and one circular flange brush.
- Every Series SC3R pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- To use a Series SC3R pig for different applications, elements and brushes can simply be added or reconfigured.

Designed to negotiate minimum 3D and greater bends, the SC3R pig moves reliably through piping systems.

Options Available:

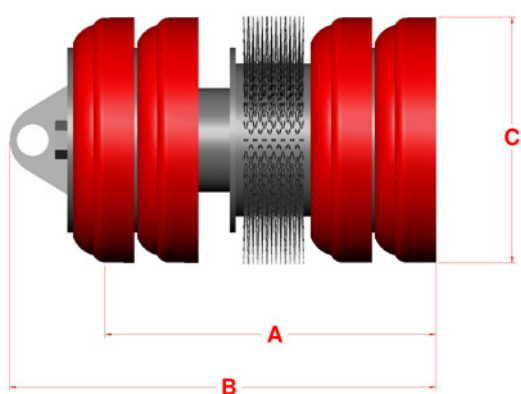
- Circular flange brushes in the following types and trim materials:
 1. Trim types – flat wire or pencil.
 2. Trim material – carbon steel, stainless steel or plastic.
- UT Mandrel to accommodate electronic tracking equipment.
- Aluminum gauge plates in slotted or standard styles.
- Magnets can be used 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.
- Two (SC2R) and four cup (SC4R) configurations.

MODERATE CLEANING

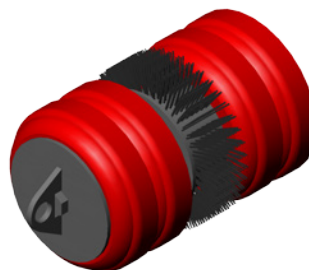
SC4R

6-14" (152-356mm)

The Series SC4R is one powerful cleaning tool. Apache developed the Series SC4R pig to deliver a moderate cleaning capability to clean all types of pipelines. The result? The line is free of debris and flow rates improve. With the scrubbing capability of the sturdy pitPRO™ or circular flange brush, the Series SCR provides outstanding cleaning ability.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 8.750 | 12.000 | 6.375 | 19 | 60-3077-06 |
| 8" | 10.875 | 14.375 | 8.500 | 33 | 60-3077-08 |
| 10" | 13.875 | 18.000 | 10.625 | 60 | 60-3077-10 |
| 12" | 16.875 | 21.375 | 12.750 | 84 | 60-3077-12 |
| 14" | 18.375 | 23.000 | 13.875 | 97 | 60-3077-14 |



Features & Benefits:

- The SC4R pig features four cups and one circular flange brush.
- Every Series SC4R pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- To use a Series SC4R pig for different applications, elements and brushes can simply be added or reconfigured.

Designed to negotiate minimum 3D and greater bends, the SC4R pig moves reliably through piping systems.

Options Available:

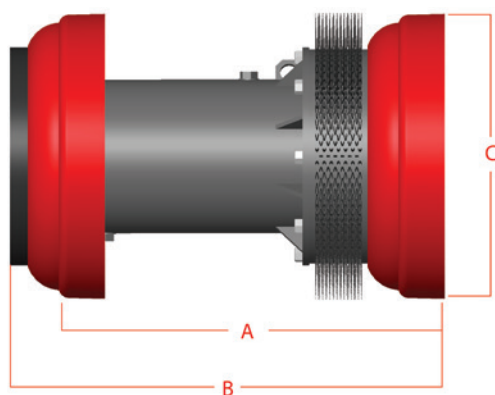
- Circular flange brushes in the following types and trim materials:
 1. Trim types – flat wire or pencil.
 2. Trim material – carbon steel, stainless steel or plastic.
- UT Mandrel to accommodate electronic tracking equipment.
- Aluminum gauge plates in slotted or standard styles.
- Magnets can be used 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.
- Two (SC2R) and three cup (SC3R) configurations.

MODERATE CLEANING

SCR

16-48" (406-1219mm)

The Series SCR is one powerful cleaning tool. Apache developed the Series SCR pig to deliver a moderate cleaning capability to clean all types of pipelines. The result? The line is free of debris and flow rates improve. With the scrubbing capability of a circular flange brush, the Series SCR provides outstanding cleaning ability.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 21.000 | 24.250 | 16.000 | 95 | 60-3075-16 |
| 20" | 25.875 | 29.625 | 19.875 | 152 | 60-3075-20 |
| 22" | 28.000 | 32.125 | 21.875 | 175 | 60-3075-22 |
| 24" | 30.500 | 34.625 | 23.875 | 222 | 60-3075-24 |
| 30" | 37.000 | 42.125 | 29.875 | 337 | 60-3075-30 |
| 36" | 43.500 | 49.000 | 36.000 | 530 | 60-3075-36 |
| 42" | 50.000 | 56.000 | 42.125 | 767 | 60-3075-42 |
| 48" | 54.250 | 60.750 | 48.500 | 944 | 60-3075-48 |

Features & Benefits:

- The SCR pig features two cups and one circular flange brush.
- Every Series SCR pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- Every Apache SCR 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 the 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.

Designed to negotiate 1.5D bends, the Series SCR 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.
- Transmitter housing to accommodate electronic tracking equipment.
- Aluminum gauge plates in slotted or standard styles.
- Three- (SC3R) and four-cup (SC4R) configurations.
- 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.
- Rattlers.

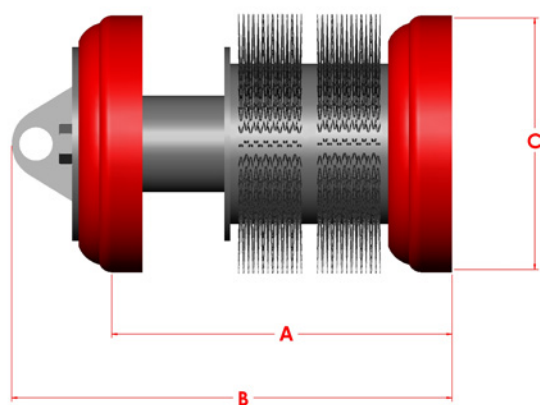
MODERATE CLEANING

DC2R

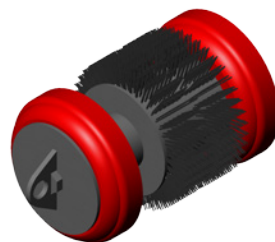
6-14" (152-356mm)

If your pipeline is in need of a good cleaning, the Series DC2R provides efficient cleaning capability. The DC2R pig features two Series C Cups and two circular brushes. These multiple sealing components create a positive seal, while simultaneously providing a bigger surface area. As a result, its sealing capacity and overall cleaning ability are greatly improved.

When product flows more freely through the pipeline, less energy is required to pump it, reducing operating costs. It also reduces maintenance and repair costs down the road. Thanks to Series DC2R, it's easy to keep your pipeline debris-free.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 7.500 | 10.875 | 6.375 | 14 | 60-3082-06 |
| 8" | 10.875 | 14.375 | 8.500 | 26 | 60-3082-08 |
| 10" | 12.250 | 16.375 | 10.625 | 41 | 60-3082-10 |
| 12" | 14.875 | 19.375 | 12.750 | 61 | 60-3082-12 |
| 14" | 16.875 | 21.500 | 13.875 | 71 | 60-3082-14 |



Features & Benefits:

- Every Series DC2R pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably.
- To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- To use a Series DC2R pig for different applications, elements and brushes can simply be added or reconfigured.

Designed to negotiate minimum 3D and greater bends, the DC2R pig moves reliably through piping systems.

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.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.
- Three (DC3R) and four cup (DC4R) configuration.

MODERATE CLEANING

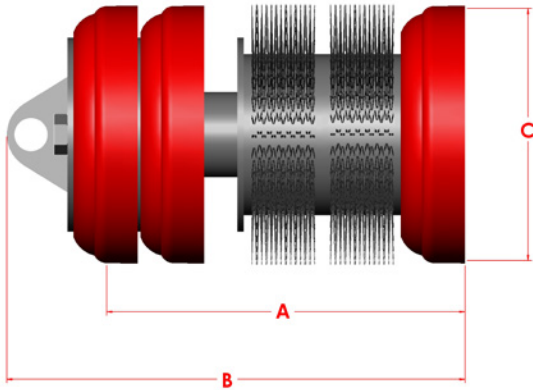
DC3R

6-14" (152-356mm)

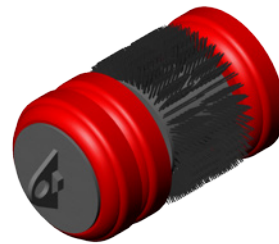
If your pipeline is in need of a good cleaning, the Series DC3R provides efficient cleaning capability.

The DC3R pig features three Series C Cups and two circular brushes. These multiple sealing components create a positive seal between dissimilar fluids, while simultaneously providing a bigger surface area. As a result, its sealing capacity and overall cleaning ability are greatly improved.

When product flows more freely through the pipeline, less energy is required to pump it, reducing production costs. It also reduces maintenance and repair costs down the road. Thanks to Series DCR, it's easy to keep your pipeline debris-free.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 9.125 | 12.375 | 6.375 | 18 | 60-3083-06 |
| 8" | 12.125 | 15.500 | 8.500 | 32 | 60-3083-08 |
| 10" | 15.000 | 19.125 | 10.625 | 53 | 60-3083-10 |
| 12" | 16.750 | 21.250 | 12.750 | 77 | 60-3083-12 |
| 14" | 18.250 | 22.875 | 13.875 | 89 | 60-3083-14 |



Features & Benefits:

- Every Series DC3R pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- To use a Series DC3R pig for different applications, elements and brushes can simply be added or reconfigured.

Designed to negotiate minimum 3D and greater bends, the DC3R pig moves reliably through piping systems.

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.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.
- Two (DC2R) and four cup (DC4R) configurations.

MODERATE CLEANING

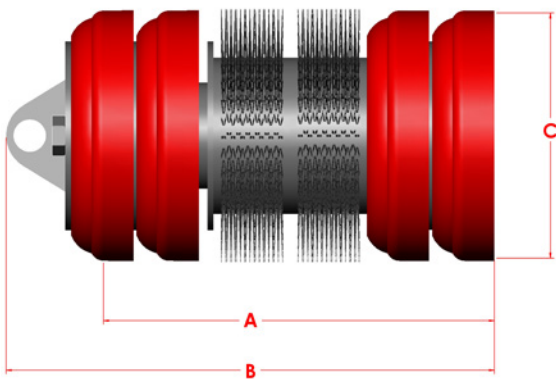
DC4R

6-14" (152-356mm)

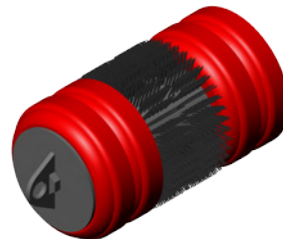
If your pipeline is in need of a good cleaning, the Series DC4R provides efficient cleaning capability.

The DC4R pig features four Series C Cups and two circular brushes. These multiple sealing components create a positive seal between dissimilar fluids, while simultaneously providing a bigger surface area. As a result, its sealing capacity and overall cleaning ability are greatly improved.

When product flows more freely through the pipeline, less energy is required to pump it, reducing production costs. It also reduces maintenance and repair costs down the road. Thanks to Series DCR, it's easy to keep your pipeline debris-free.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 9.625 | 12.875 | 6.375 | 21 | 60-3084-06 |
| 8" | 12.250 | 15.750 | 8.500 | 37 | 60-3084-08 |
| 10" | 15.250 | 19.500 | 10.625 | 65 | 60-3084-10 |
| 12" | 18.625 | 23.125 | 12.750 | 94 | 60-3084-12 |
| 14" | 20.125 | 24.750 | 13.875 | 106 | 60-3084-14 |



Features & Benefits:

- Every Series DC4R pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- To use a Series DC4R pig for different applications, elements and brushes can simply be added or reconfigured.

Designed to negotiate minimum 3D and greater bends, the DC4R pig moves reliably through piping systems.

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.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.
- Two (DC2R) and three cup (DC3R) configurations.

MODERATE CLEANING

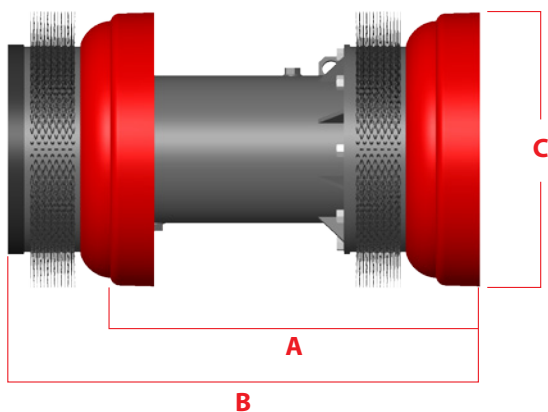
DCR

16-48" (406-1219mm)

If your pipeline is in need of a good cleaning, the Series DCR provides efficient moderate cleaning capability.

The DCR pig features two Series C Cups and two circular brushes. These multiple sealing components create a positive seal between dissimilar fluids, while simultaneously providing a bigger surface area. As a result, its sealing capacity and overall cleaning ability are greatly improved.

When product flows more freely through the pipeline, less energy is required to pump it, reducing production costs. It also reduces maintenance and repair costs down the road. Thanks to Series DCR, it's easy to keep your pipeline debris-free.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 21.000 | 27.500 | 16.000 | 109 | 60-3143-16 |
| 20" | 25.875 | 32.875 | 19.875 | 172 | 60-3143-20 |
| 22" | 28.000 | 35.375 | 21.875 | 202 | 60-3143-22 |
| 24" | 30.500 | 38.000 | 23.875 | 249 | 60-3143-24 |
| 30" | 37.000 | 45.375 | 29.875 | 379 | 60-3143-30 |
| 36" | 43.500 | 52.250 | 36.000 | 599 | 60-3143-36 |
| 42" | 50.000 | 59.250 | 42.125 | 859 | 60-3143-42 |
| 48" | 54.250 | 64.000 | 48.500 | 1046 | 60-3143-48 |

Features & Benefits:

- Every Series DCR pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache DCR 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 the 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.

Designed to negotiate 1.5D bends, the Series DCR 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.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Rattlers.

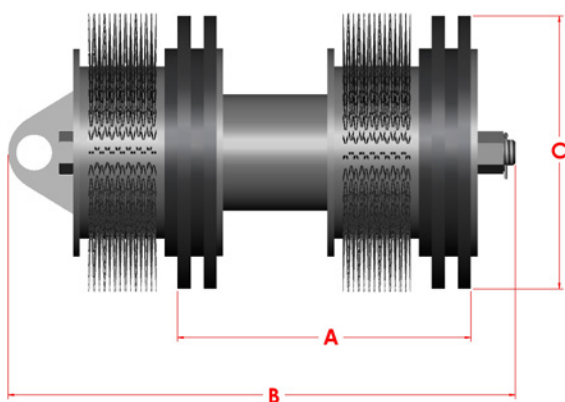
MODERATE CLEANING

EDR

6-14" (152-356mm)

Every newly constructed pipeline requires hydrostatic testing, but before that can take place, the line must be very clean. If you're in search of a pig that provides moderate cleaning capability, Apache offers the EDR.

Equipped with sturdy circular flange brushes that forcefully scrub away residue and debris, the primary function of the EDR is to moderately clean the line before testing, leaving it in a pristine condition, ready for assessment.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 6" | 7.875 | 15.750 | 6.375 | 18 | 60-7150-06 |
| 8" | 10.250 | 18.250 | 8.375 | 31 | 60-7150-08 |
| 10" | 11.250 | 19.750 | 10.500 | 51 | 60-7150-10 |
| 12" | 14.125 | 22.750 | 12.500 | 71 | 60-7150-12 |
| 14" | 16.625 | 25.250 | 13.875 | 80 | 60-7150-14 |

Features & Benefits:

- The Series EDR is extremely effective, providing a thorough and deep clean.
- With repeated use, sealing discs can experience wear and tear. The EDR pig can still reverse direction without compromising its sealing capabilities.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.

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

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.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.

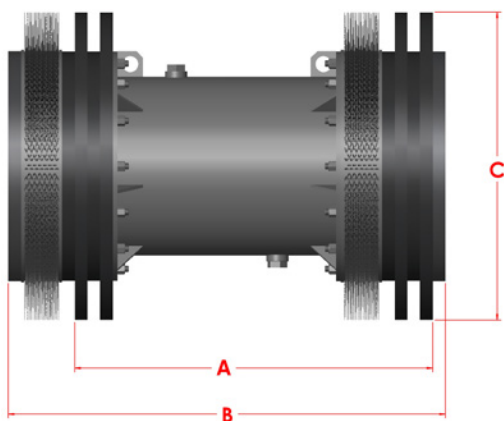
MODERATE CLEANING

EDR

16-48" (406-1219mm)

Every newly constructed pipeline requires hydrostatic testing, but before that can take place, the line must be very clean. If you're in search of a pig that provides excellent cleaning capability, Apache offers the EDR.

Equipped with sturdy brushes that forcefully scrub away residue and debris, the primary function of the EDR is to clean the line, leaving it in a pristine condition.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 19.000 | 25.000 | 15.875 | 132 | 60-7150-16 |
| 18" | 21.500 | 27.500 | 17.875 | 165 | 60-7150-18 |
| 20" | 24.375 | 30.500 | 20.000 | 217 | 60-7150-20 |
| 22" | 26.375 | 32.250 | 22.000 | 248 | 60-7150-22 |
| 24" | 28.250 | 34.500 | 24.125 | 303 | 60-7150-24 |
| 30" | 33.375 | 40.250 | 30.250 | 468 | 60-7150-30 |
| 36" | 40.125 | 47.000 | 36.500 | 776 | 60-7150-36 |
| 42" | 47.250 | 55.250 | 42.125 | 1093 | 60-7150-42 |
| 48" | 53.250 | 62.000 | 48.875 | 1381 | 60-7150-48 |

Features & Benefits:

- The Series EDR is extremely effective, providing a thorough and deep clean.
- With repeated use, sealing discs can experience wear and tear. The EDR pig can still reverse direction without compromising its sealing capabilities.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache EDR 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 the 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.

Designed to negotiate 1.5D bends, the EDR 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.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.

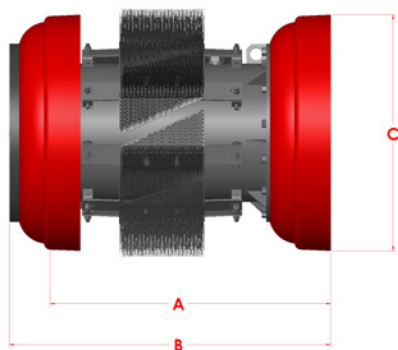
AGGRESSIVE CLEANING

UC2X

16-48" (406-1219mm)

The Series UC2X with block brush provides aggressive cleaning during the construction phase as well as regular pipeline operations. Let's face it, when a pipeline is being constructed, it's a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series just for this purpose.

At times it's necessary to clean a line more rigorously, which requires additional cups. Bearing this in mind, the Series UCX is available in three versions. The two-cup design of the UC2X pig provides a basic level of aggressive cleaning capability. With each additional cup, the Series UCX pig cleans more rigorously. Therefore, the UC3X three-cup and UC4X four-cup design pigs are progressively more powerful cleaning tools. They are used to aggressively clean and scrape pipelines, and are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 18.875 | 22.000 | 16.000 | 118 | 60-3522-16 |
| 20" | 24.500 | 28.375 | 19.875 | 187 | 60-3522-20 |
| 22" | 26.750 | 30.875 | 21.875 | 210 | 60-3522-22 |
| 24" | 28.375 | 32.500 | 23.875 | 269 | 60-3522-24 |
| 30" | 33.750 | 38.875 | 29.875 | 391 | 60-3522-30 |
| 36" | 40.125 | 45.750 | 36.000 | 572 | 60-3522-36 |
| 42" | 46.750 | 52.750 | 42.125 | 819 | 60-3522-42 |
| 48" | 51.000 | 57.500 | 48.500 | 987 | 60-3522-48 |

Features & Benefits:

- Every Series UCX pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- The UC2X is manufactured with block brushes that are available in a variety of trim options.
- Every Apache UC2X 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 the 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 minimum 3D and greater bends, the UC2X pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- Rattlers.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- 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.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.
- Three (UC3X) and four cup (UC4X) configurations.

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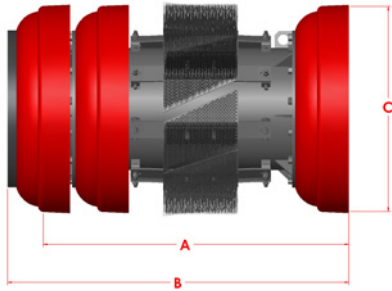
AGGRESSIVE CLEANING

UC3X

16-48" (406-1219mm)

The Series UC3X with block brush provides aggressive cleaning during the construction phase as well as regular pipeline operations. Let's face it, when a pipeline is being constructed, it's a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UCX just for this purpose.

At times it's necessary to clean a line more rigorously, which requires additional cups. Bearing this in mind, the Series UCX is available in three versions. The two-cup design of the UC2X pig provides a basic level of aggressive cleaning capability. With each additional cup, the Series UCX pig cleans more rigorously. Therefore, the UC3X three-cup and UC4X four-cup design pigs are progressively more powerful cleaning tools. They are used to aggressively clean and scrape pipelines, and are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 23.500 | 26.875 | 16.000 | 150 | 60-3523-16 |
| 20" | 30.500 | 34.500 | 19.875 | 240 | 60-3523-20 |
| 22" | 33.375 | 37.500 | 21.875 | 276 | 60-3523-22 |
| 24" | 35.125 | 39.250 | 23.875 | 341 | 60-3523-24 |
| 30" | 42.125 | 47.125 | 29.875 | 509 | 60-3523-30 |
| 36" | 49.250 | 54.750 | 36.000 | 743 | 60-3523-36 |
| 42" | 56.500 | 62.500 | 42.125 | 1058 | 60-3523-42 |
| 48" | 61.750 | 68.125 | 48.500 | 1292 | 60-3523-48 |

Features & Benefits:

- Every Series UCX pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- The UC3X is manufactured with block brushes that are available in a variety of trim options.
- Every Apache UC3X 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 the 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 minimum 3D and greater bends, the UC3X pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- Rattlers.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- 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.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.
- Two (UC2X) and four cup (UC4X) configurations.

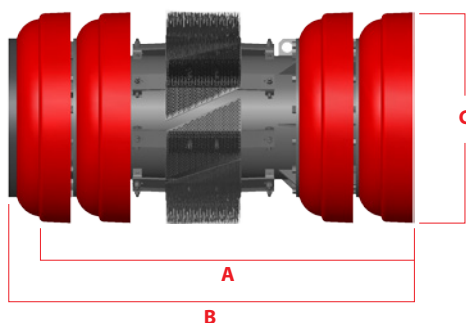
AGGRESSIVE CLEANING

UC4X

16-48" (406-1219mm)

The Series UC4X with block brush provides aggressive cleaning during the construction phase as well as regular pipeline operations. Let's face it, when a pipeline is being constructed, it's a messy business, so it's important that the pipeline interior be kept clean throughout the process. Apache developed the Series UCX just for this purpose.

At times it's necessary to clean a line more rigorously, which requires additional cups. Bearing this in mind, the Series UCX is available in three versions. The two-cup design of the UC2X pig provides a basic level of aggressive cleaning capability. With each additional cup, the Series UCX pig cleans more rigorously. Therefore, the UC3X three-cup and UC4X four-cup design pigs are progressively more powerful cleaning tools. They are used to aggressively clean and scrape pipelines, and are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 29.250 | 32.500 | 16.000 | 184 | 60-3524-16 |
| 20" | 36.625 | 40.500 | 19.875 | 295 | 60-3524-20 |
| 22" | 39.875 | 44.000 | 21.875 | 340 | 60-3524-22 |
| 24" | 41.875 | 46.000 | 23.875 | 414 | 60-3524-24 |
| 30" | 50.500 | 55.500 | 29.875 | 614 | 60-3524-30 |
| 36" | 58.250 | 63.750 | 36.000 | 900 | 60-3524-36 |
| 42" | 66.125 | 72.125 | 42.125 | 1328 | 60-3524-42 |
| 48" | 72.325 | 78.875 | 48.500 | 1588 | 60-3524-48 |

Features & Benefits:

- Every Series UCX pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- The UC4X is manufactured with block brushes that are available in a variety of trim options.
- Every Apache UC4X 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 the 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 minimum 3D and greater bends, the UC4X pig moves reliably through piping systems.

Options Available:

- CARVER discs.
- Rattlers.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- 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.
- Two (UC2X) and three cup (UC3X) configurations.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.

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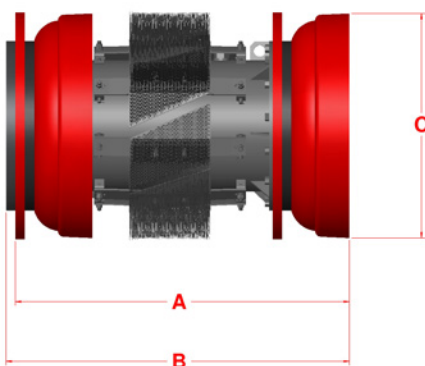
AGGRESSIVE CLEANING

DCDX

16-48" (406-1219mm)

Aggressive, effective cleaning is the name of the game for the Series DCDX pig.

The DCDX pig features two sealing discs, two Series C Cups and block brushes. These multiple sealing components create a positive seal, while simultaneously providing a larger sealing surface area. As a result, its sealing capacity, scraping capability, and overall cleaning ability is greatly improved. It is used to aggressively clean pipelines, and is typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 24.000 | 25.000 | 16.000 | 132 | 60-3700-16 |
| 20" | 30.875 | 31.875 | 19.875 | 212 | 60-3700-20 |
| 22" | 33.375 | 34.375 | 21.875 | 246 | 60-3700-22 |
| 24" | 35.500 | 36.500 | 23.875 | 307 | 60-3700-24 |
| 30" | 42.250 | 43.375 | 29.875 | 459 | 60-3700-30 |
| 36" | 49.875 | 51.250 | 36.000 | 682 | 60-3700-36 |
| 42" | 57.875 | 58.750 | 42.125 | 999 | 60-3700-42 |
| 48" | 62.750 | 64.500 | 48.500 | 1207 | 60-3700-48 |

Features & Benefits:

- Every Series DCDX pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup was specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- The DCDX is manufactured with block brushes that are available in a variety of trim options.
- Every Apache DCDX 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 the 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 minimum 3D and greater bends, the DCDX 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.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Rattlers.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.

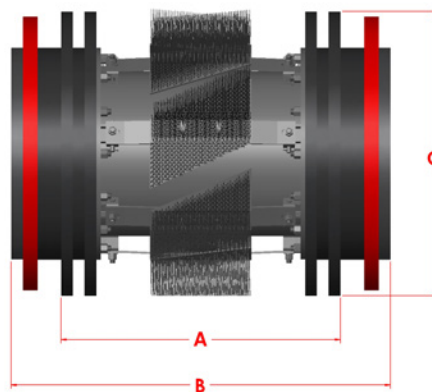
AGGRESSIVE CLEANING

EDX

16-48" (406-1219mm)

Every newly constructed pipeline requires hydrostatic testing, but before that can take place, the line must be immaculate. To achieve this level of cleanliness, Apache offers the rugged EDX, a seriously aggressive cleaning pig.

Equipped with sturdy block brushes that forcefully scrub away residue and debris, the primary function of the EDX is to aggressively clean the line before testing, leaving it in a pristine condition, ready for assessment.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 18.000 | 25.250 | 15.875 | 157 | 60-7228-16 |
| 18" | 20.500 | 27.750 | 17.875 | 194 | 60-7228-18 |
| 20" | 23.000 | 31.000 | 20.000 | 252 | 60-7228-20 |
| 22" | 26.250 | 34.250 | 22.000 | 283 | 60-7228-22 |
| 24" | 26.750 | 35.250 | 24.125 | 355 | 60-7228-24 |
| 30" | 29.750 | 39.500 | 30.250 | 530 | 60-7228-30 |
| 36" | 35.250 | 47.000 | 36.500 | 812 | 60-7228-36 |
| 42" | 42.250 | 55.250 | 42.125 | 1209 | 60-7228-42 |
| 48" | 46.500 | 61.750 | 48.875 | 1511 | 60-7228-48 |

Features & Benefits:

- The EDX pig is a very economical four-sealing, two-guide disc bi-directional pig. It not only provides a solid seal, its tough, spring-loaded brushes mean that it meticulously cleans line interiors, leaving them free of scale and debris. To enhance versatility, the EDX is manufactured with block brushes that are available in a variety of trim options.
- The pig's durable guide discs center the sealing discs in the line, forming a quadruple seal that virtually eliminates product by-pass.
- 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.
- Every Apache EDX 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 the 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.

Designed to negotiate minimum 3D and greater bends, the EDX 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.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Urethane Plow Blades - Designed to replace a XB block brush, the 3-Rib urethane removes paraffin wax and similar deposits from the pipe wall that normally collect and cram between the bristles of a block brush. Our plow blade profile performs a similar function to the 3-Rib, but is used primarily for pipe sizes 16" - 18". Both blade types are also excellent tools for removing debris in non-metallic or internally coated pipe without damaging the pipe wall coating.

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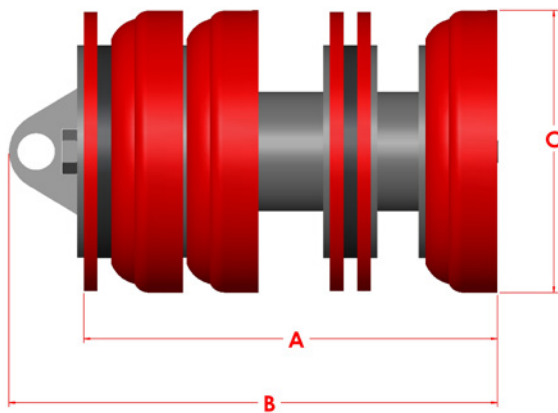
B A T C H I N G

XF

3-14" (76-356mm)

The Series XF is primarily used for batching dissimilar fluids.

With its standard three cup-three sealing disc design, the XF pig provides a positive seal between fluid interfaces for efficient batching and separating. It is typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 3" | 7.625 | 9.000 | 3.375 | 3.0 | 70-6786-03 |
| 4" | 8.250 | 9.000 | 4.375 | 6.0 | 70-6786-04 |
| 6" | 10.250 | 12.500 | 6.375 | 18 | 70-6786-06 |
| 8" | 12.000 | 14.375 | 8.500 | 33 | 70-6786-08 |
| 10" | 15.125 | 18.000 | 10.625 | 58 | 70-6786-10 |
| 12" | 18.125 | 20.875 | 12.750 | 82 | 70-6786-12 |
| 14" | 20.750 | 23.500 | 13.875 | 92 | 70-6786-14 |

Features & Benefits:

- Every Series XF pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup and discs were specifically developed to perform efficiently and reliably.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.

Designed to negotiate minimum 3D and greater bends, the XF pig moves reliably through piping systems.

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.
- 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.

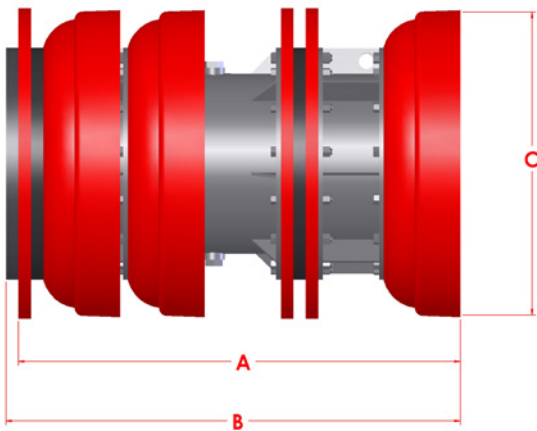
B A T C H I N G

XF

16-48" (406-1219mm)

The Series XF is primarily used for batching dissimilar fluids.

With its standard three cup-three sealing disc design, the XF pig provides a positive seal between fluid interfaces for efficient batching and separating. It is typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 23.375 | 24.375 | 16.000 | 140 | 70-6786-16 |
| 18" | 27.625 | 28.625 | 17.875 | 174 | 70-6786-18 |
| 20" | 30.000 | 31.000 | 19.875 | 231 | 70-6786-20 |
| 22" | 32.500 | 33.500 | 21.875 | 267 | 70-6786-22 |
| 24" | 35.500 | 36.500 | 23.875 | 359 | 70-6786-24 |
| 30" | 45.375 | 46.500 | 29.875 | 541 | 70-6786-30 |
| 36" | 53.500 | 54.875 | 36.000 | 823 | 70-6786-36 |
| 42" | 62.125 | 63.625 | 42.125 | 1252 | 70-6786-42 |
| 48" | 72.000 | 73.625 | 48.500 | 1519 | 70-6786-48 |

Features & Benefits:

- Every Series XF pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup and discs were specifically developed to perform efficiently and reliably. To enhance durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Plus, the large wearing surface of the cup promotes longer life, while product pressure holds the cutting edge firmly against the pipe wall.
- Every Apache XF 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 the 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 minimum 3D and greater bends, the XF 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.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Rattlers.

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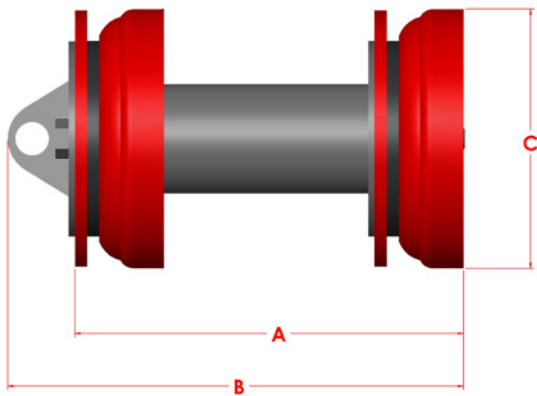
B A T C H I N G

DCD

3-14" (76-356mm)

Effective batching and separating capability is the name of the game for the Series DCD pig.

Every pig in the series is equipped with two sealing discs and two Apache Series C Cups. These multiple sealing components create a positive seal between dissimilar fluids, while simultaneously providing a larger sealing surface area. As a result, its sealing capacity, and overall batching and separating capability is greatly improved.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 3" | 4.875 | 6.500 | 3.375 | 2.0 | 70-6830-03 |
| 4" | 6.250 | 8.250 | 4.375 | 4.0 | 70-6830-04 |
| 6" | 9.375 | 12.250 | 6.375 | 12 | 70-6830-06 |
| 8" | 11.875 | 14.500 | 8.500 | 23 | 70-6830-08 |
| 10" | 14.875 | 17.750 | 10.625 | 39 | 70-6830-10 |
| 12" | 18.125 | 20.875 | 12.750 | 56 | 70-6830-12 |
| 14" | 20.750 | 23.500 | 13.875 | 65 | 70-6830-14 |

Features & Benefits:

- Every Series DCD pig is equipped with Apache Series C cups. As with all of Apache products, the Series C cup and discs were specifically developed to perform efficiently and reliably.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- The DCD pig is configured to offer a sealing arrangement that is used to separate dissimilar fluids during longer distance operations.

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

Options Available:

- 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.

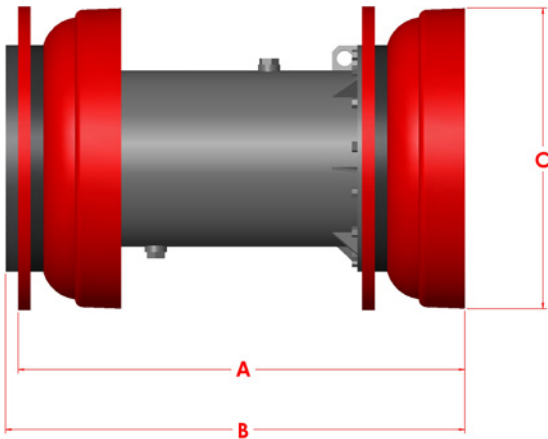
B A T C H I N G

DCD

16-48" (406-1219mm)

Effective batching and separating capability is the name of the game for the Series DCD pig.

Every pig in the series is equipped with two sealing discs and two Series C Cups. These multiple sealing components create a positive seal between dissimilar fluids, while simultaneously providing a bigger surface area. As a result, its sealing capacity, and overall batching and separating capability is greatly improved.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 23.125 | 24.125 | 16.000 | 97 | 70-6830-16 |
| 20" | 28.875 | 29.875 | 19.875 | 159 | 70-6830-20 |
| 22" | 31.375 | 32.375 | 21.875 | 183 | 70-6830-22 |
| 24" | 34.500 | 35.500 | 23.875 | 234 | 70-6830-24 |
| 30" | 42.250 | 43.375 | 29.875 | 376 | 70-6830-30 |
| 36" | 49.875 | 51.250 | 36.000 | 583 | 70-6830-36 |
| 42" | 57.250 | 58.750 | 42.125 | 865 | 70-6830-42 |
| 48" | 62.750 | 64.500 | 48.500 | 1077 | 70-6830-48 |

Features & Benefits:

- The DCD pig is configured to offer a sealing arrangement that is used to separate dissimilar fluids, and to lightly scrape pipelines during longer distance operations.
- Every Apache DCD 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 the 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 1.5D bends, the Series DCD 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.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- Rattlers.

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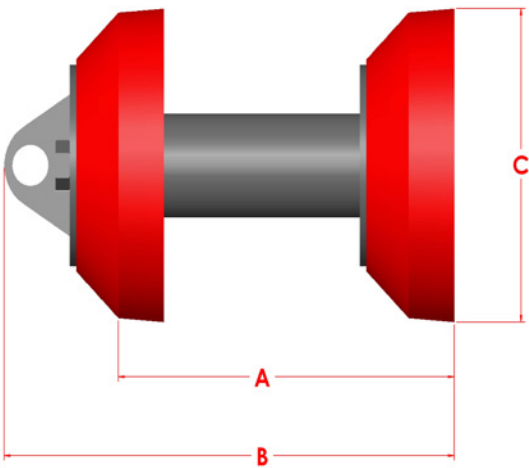
B A T C H I N G

UM2

3-14" (76-356mm)

Primarily used to batch dissimilar fluids, the Series UM2 conical cup pig is also very effective for pipelines in need of light cleaning.

How is this possible? The answer lies in the three versions of the Series UM. The two-cup design of the UM2 pig provides a positive seal between fluid interfaces for efficient batching. The UM3 three-cup and UM4 four-cup design pigs are both used to gently clean pipelines and for batching and separation operations. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 3" | 4.625 | 6.625 | 3.375 | 2.0 | 70-5802-03 |
| 4" | 5.875 | 8.000 | 4.375 | 3.0 | 70-5802-04 |
| 6" | 8.250 | 11.625 | 6.500 | 10 | 70-5802-06 |
| 8" | 10.500 | 14.125 | 8.375 | 15 | 70-5802-08 |
| 10" | 12.750 | 17.125 | 10.500 | 27 | 70-5802-10 |
| 12" | 15.125 | 19.625 | 12.500 | 39 | 70-5802-12 |
| 14" | 17.500 | 22.125 | 14.000 | 48 | 70-5802-14 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially 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 Series UM2 pig moves reliably through piping systems.

Options Available:

- Circular flange brushes in the following types and trim materials:
 - Trim types – flat wire or pencil.
 - Trim material – carbon steel, stainless steel or plastic.
- Aluminum or steel gauging plates in slotted or standard styles.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.

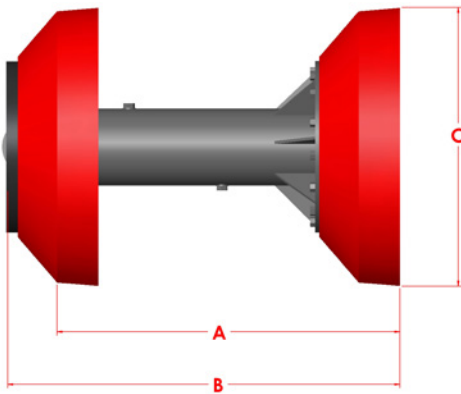
B A T C H I N G

UM2

16-48" (406-1219mm)

Primarily used to batch dissimilar fluids, the Series UM2 is also very effective for pipelines in need of light cleaning.

How is this possible? The answer lies in the three versions of the Series UM. The two-cup design of the UM2 pig provides a positive seal between fluid interfaces for efficient batching. The UM3 three-cup and UM4 four-cup design pigs are both used to gently clean pipelines and for batching and separation operations. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 21.000 | 24.000 | 15.875 | 63 | 70-5802-16 |
| 20" | 23.750 | 27.375 | 20.000 | 98 | 70-5802-20 |
| 22" | 27.625 | 31.625 | 22.000 | 137 | 70-5802-22 |
| 24" | 29.500 | 33.875 | 24.000 | 161 | 70-5802-24 |
| 30" | 36.750 | 41.875 | 29.875 | 273 | 70-5802-30 |
| 36" | 45.750 | 52.250 | 36.000 | 421 | 70-5802-36 |
| 42" | 54.125 | 61.375 | 42.125 | 614 | 70-5802-42 |
| 48" | 60.375 | 68.625 | 48.125 | 754 | 70-5802-48 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache UM2 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 the 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 in-line auxiliary equipment, preventing damage.

Designed to negotiate 1.5D bends, the Series UM2 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.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- CARVER Discs
- Rattlers

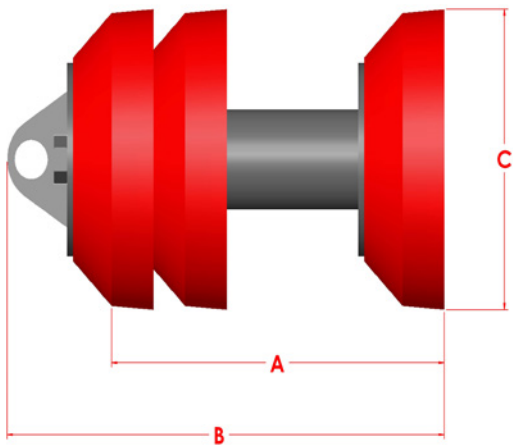
B A T C H I N G

UM3

3-14" (76-356mm)

Primarily used to batch dissimilar fluids, the Series UM3 is also very effective for pipelines in need of light cleaning.

How is this possible? The answer lies in the three versions of the Series UM. The two-cup design of the UM2 pig provides a positive seal between fluid interfaces for efficient batching. The UM3 three-cup and UM4 four-cup design pigs are both used to gently clean pipelines and for batching and separation operations. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 3" | 4.875 | 6.750 | 3.375 | 3.0 | 70-5803-03 |
| 4" | 6.125 | 8.625 | 4.375 | 4.0 | 70-5803-04 |
| 6" | 9.250 | 12.625 | 6.500 | 13 | 70-5803-06 |
| 8" | 12.000 | 15.625 | 8.375 | 20 | 70-5803-08 |
| 10" | 14.875 | 19.250 | 10.500 | 36 | 70-5803-10 |
| 12" | 16.625 | 21.250 | 12.500 | 52 | 70-5803-12 |
| 14" | 19.500 | 24.250 | 14.000 | 64 | 70-5803-14 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially 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 Series UM3 pig moves reliably through piping systems.

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.
- Aluminum or steel gauging plates in slotted or standard styles.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.

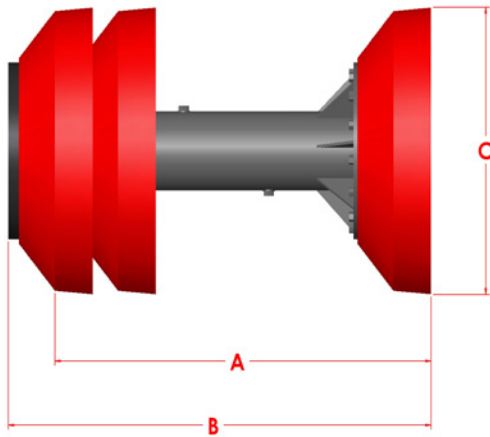
B A T C H I N G

UM3

16-48" (406-1219mm)

Primarily used to batch dissimilar fluids, the Series UM3 is also very effective for pipelines in need of light cleaning.

How is this possible? The answer lies in the three versions of the Series UM. The two-cup design of the UM2 pig provides a positive seal between fluid interfaces for efficient batching. The UM3 three-cup and UM4 four-cup design pigs are both used to gently clean pipelines and for batching and separation operations. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 25.000 | 28.000 | 15.875 | 89 | 70-5803-16 |
| 20" | 29.750 | 33.375 | 20.000 | 145 | 70-5803-20 |
| 22" | 34.375 | 38.250 | 22.000 | 197 | 70-5803-22 |
| 24" | 36.500 | 40.875 | 24.000 | 231 | 70-5803-24 |
| 30" | 45.500 | 50.625 | 29.875 | 385 | 70-5803-30 |
| 36" | 55.125 | 61.750 | 36.000 | 586 | 70-5803-36 |
| 42" | 66.250 | 73.500 | 42.125 | 860 | 70-5803-42 |
| 48" | 74.625 | 83.000 | 48.125 | 1061 | 70-5803-48 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache UM3 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 the 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 in-line auxiliary equipment, preventing damage.

Designed to negotiate 1.5D bends, the Series UM3 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.
- Aluminum or steel gauging plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- CARVER Discs
- Rattlers

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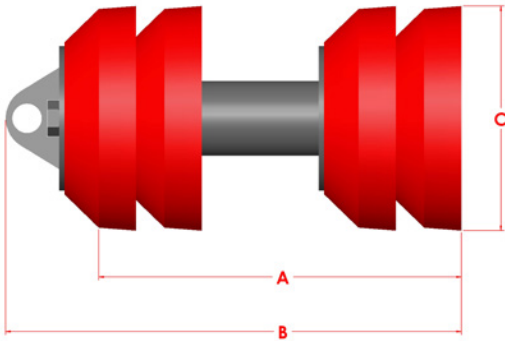
B A T C H I N G

UM4

3-14" (76-356mm)

Primarily used to batch dissimilar fluids, the Series UM4 is also very effective for separating fluids and looking after pipelines in need of light cleaning.

How is this possible? The answer lies in the three versions of the Series UM. The two-cup design of the UM2 pig provides a positive seal between fluid interfaces for efficient batching. The UM3 three-cup and UM4 four-cup design pigs are both used to gently clean pipelines and for batching and separation operations. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 3" | 6.000 | 8.000 | 3.375 | 3.0 | 70-5804-03 |
| 4" | 7.000 | 9.500 | 4.375 | 5.0 | 70-5804-04 |
| 6" | 10.250 | 13.625 | 6.500 | 15 | 70-5804-06 |
| 8" | 13.500 | 17.125 | 8.375 | 25 | 70-5804-08 |
| 10" | 17.000 | 21.250 | 10.500 | 45 | 70-5804-10 |
| 12" | 18.750 | 23.750 | 12.500 | 65 | 70-5804-12 |
| 14" | 21.625 | 26.375 | 14.000 | 81 | 70-5804-14 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially 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 Series UM4 pig moves reliably through piping systems.

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.
- Aluminum or steel gauging plates in slotted or standard styles.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.

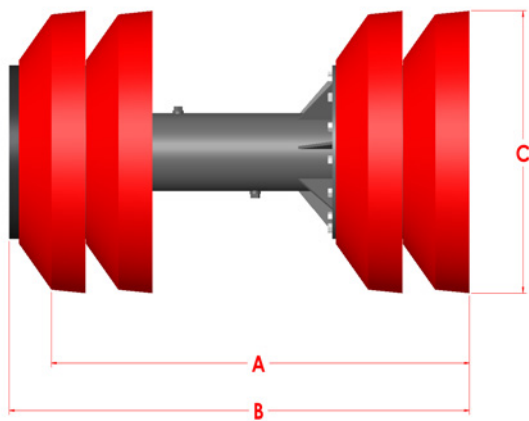
B A T C H I N G

UM4

16-48" (406-1219mm)

Primarily used to batch dissimilar fluids, the Series UM4 is also very effective for separating fluids and looking after pipelines in need of light cleaning.

How is this possible? The answer lies in the three versions of the Series UM. The two-cup design of the UM2 pig provides a positive seal between fluid interfaces for efficient batching. The UM3 three-cup and UM4 four-cup design pigs are both used to gently clean pipelines and for batching and separation operations. They are typically used for longer distance operations.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 29.000 | 32.125 | 15.875 | 115 | 70-5804-16 |
| 20" | 35.750 | 39.375 | 20.000 | 191 | 70-5804-20 |
| 22" | 41.000 | 44.875 | 22.000 | 257 | 70-5804-22 |
| 24" | 43.500 | 47.875 | 24.000 | 301 | 70-5804-24 |
| 30" | 54.250 | 59.375 | 29.875 | 498 | 70-5804-30 |
| 36" | 64.625 | 71.125 | 36.000 | 751 | 70-5804-36 |
| 42" | 78.500 | 85.750 | 42.125 | 1118 | 70-5804-42 |
| 48" | 84.875 | 93.250 | 48.125 | 1338 | 70-5804-48 |

Features & Benefits:

- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series UM pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache UM4 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 the 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 in-line auxiliary equipment, preventing damage.

Designed to negotiate 1.5D bends, the Series UM4 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.
- Aluminum or steel gauging plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- CARVER Discs
- Rattlers

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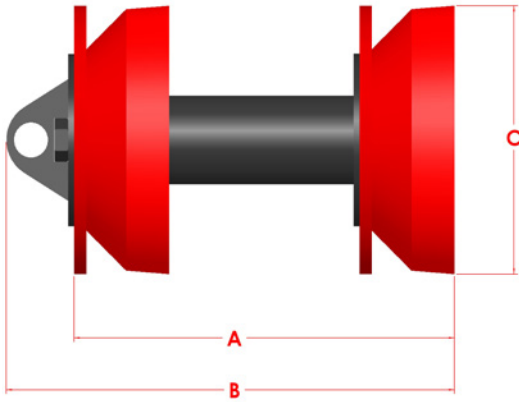
B A T C H I N G

DMD

3-14" (76-356mm)

Looking for more effective cleaning and sealing capacity? Then look no further than the Series DMD.

Every pig in the series is equipped with two sealing discs and two Series M Cups. These multiple sealing components create a positive seal between dissimilar fluids, while simultaneously providing a bigger surface area. As a result, its sealing capacity, scraping capability, and overall cleaning ability is greatly improved.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 3" | 5.625 | 7.000 | 3.375 | 2.0 | 70-6850-03 |
| 4" | 7.250 | 8.875 | 4.375 | 3.0 | 70-6850-04 |
| 6" | 10.125 | 12.375 | 6.500 | 11 | 70-6850-06 |
| 8" | 11.875 | 14.125 | 8.375 | 20 | 70-6850-08 |
| 10" | 15.500 | 18.125 | 10.500 | 31 | 70-6850-10 |
| 12" | 18.125 | 20.875 | 12.500 | 46 | 70-6850-12 |
| 14" | 20.500 | 23.250 | 14.000 | 52 | 70-6850-14 |

Features & Benefits:

- The DMD pig is configured to offer a sealing arrangement that is used to separate dissimilar fluids, and to lightly scrape pipelines during longer distance operations.
- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series DMD pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- To use a Series DMD pig for different applications, cups can simply be added or reconfigured.

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

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.
- Aluminum or steel gauging plates in slotted or standard styles.
- UT Mandrel to accommodate electronic tracking equipment.
- 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.
- CARVER Discs

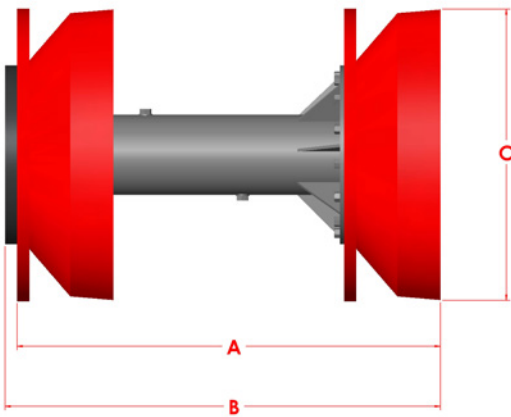
B A T C H I N G

DMD

16-48" (406-1219mm)

Looking for more effective cleaning and sealing capacity? Then look no further than the Series DMD.

Every pig in the series is equipped with two sealing discs and two Series M Cups. These multiple sealing components create a positive seal between dissimilar fluids, while simultaneously providing a bigger surface area. As a result, its sealing capacity, scraping capability, and overall cleaning ability is greatly improved.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 24.500 | 25.500 | 15.875 | 75 | 70-6850-16 |
| 20" | 28.000 | 29.000 | 20.000 | 122 | 70-6850-20 |
| 22" | 32.375 | 33.375 | 22.000 | 163 | 70-6850-22 |
| 24" | 34.875 | 35.875 | 24.000 | 196 | 70-6850-24 |
| 30" | 43.000 | 44.125 | 29.875 | 328 | 70-6850-30 |
| 36" | 53.625 | 55.000 | 36.000 | 520 | 70-6850-36 |
| 42" | 62.875 | 64.375 | 42.125 | 755 | 70-6850-42 |
| 48" | 70.500 | 72.125 | 48.125 | 962 | 70-6850-48 |

Features & Benefits:

- The DMD pig is configured to offer a sealing arrangement that is used to separate dissimilar fluids, and to lightly scrape pipelines during longer distance operations.
- Given that anomalies are a fairly common feature of a pipeline scheduled for maintenance, it's reassuring that pigs mounted with conical cups can traverse pipeline anomalies of up to 20% without damaging essential inline auxiliary equipment.
- Every Series DMD pig is equipped with Apache Series M cups. As with all of Apache products, the Series M cup was especially developed to perform efficiently and reliably. To maximize durability, it's made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Every Apache DMD 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 the 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 in-line auxiliary equipment, preventing damage.
- To use a Series DMD pig for different applications, cups can simply be added or reconfigured

Designed to negotiate 1.5D bends, the Series DMD 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.
- Aluminum or steel gauging plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.
- CARVER Discs
- Rattlers

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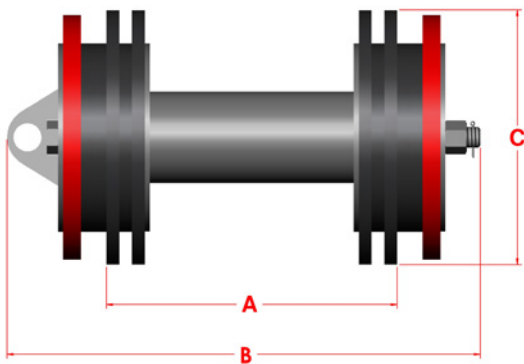
DISPLACEMENT

ED

3-14" (76-356mm)

The Series ED pig is an extremely hardworking pig. With its bi-directional design, it can travel in either direction.

When it comes to displacing air and water during hydrostatic testing carried out during construction, the ED pig gets the job done, quickly and efficiently.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 3" | 3.000 | 6.875 | 3.375 | 2.0 | 70-7056-03 |
| 4" | 4.375 | 9.000 | 4.375 | 4.0 | 70-7056-04 |
| 6" | 6.000 | 13.000 | 6.375 | 14 | 70-7056-06 |
| 8" | 7.5000 | 15.250 | 8.375 | 26 | 70-7056-08 |
| 10" | 10.500 | 18.750 | 10.500 | 44 | 70-7056-10 |
| 12" | 12.250 | 23.250 | 12.500 | 72 | 70-7056-12 |
| 14" | 14.500 | 23.500 | 13.875 | 77 | 70-7056-14 |

Features & Benefits:

- By using the ED pig comprised of four sealing discs and two guide discs, it provides an effective seal that's critical when separating dissimilar fluids or dewatering during hydrostatic testing.
- With repeated use, sealing discs can experience wear and tear. The ED pig will still reverse direction, without compromising its sealing capabilities.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.

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

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.
- UT Mandrel to accommodate electronic tracking equipment.
- Aluminum gauge plates in slotted or standard styles.
- CARVER discs.
- 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.

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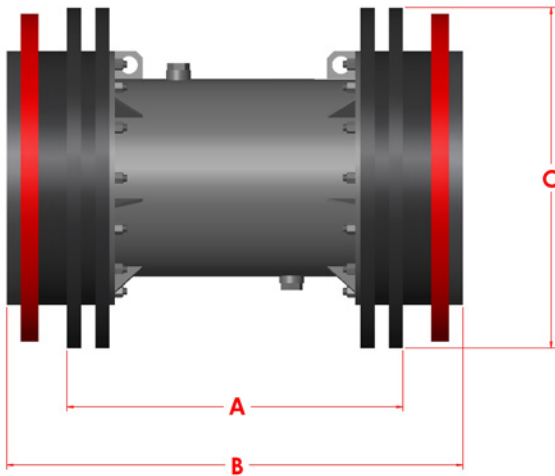
DISPLACEMENT

ED

16-48" (406-1219mm)

The Series ED pig is an extremely hardworking pig. With its bi-directional design, it can travel in either direction.

When it comes to displacing air and water during pressure testing carried out during construction, the ED pig gets the job done, quickly and efficiently.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 15.000 | 22.250 | 15.875 | 118 | 70-7056-16 |
| 18" | 17.000 | 24.250 | 17.875 | 142 | 70-7056-18 |
| 20" | 19.250 | 27.250 | 20.000 | 191 | 70-7056-20 |
| 22" | 21.500 | 30.250 | 22.000 | 215 | 70-7056-22 |
| 24" | 23.750 | 32.250 | 24.125 | 277 | 70-7056-24 |
| 30" | 29.750 | 38.500 | 30.250 | 442 | 70-7056-30 |
| 36" | 35.250 | 47.000 | 36.500 | 704 | 70-7056-36 |
| 42" | 41.250 | 55.250 | 42.125 | 1075 | 70-7056-42 |
| 48" | 46.500 | 60.000 | 48.875 | 1360 | 70-7056-48 |

Features & Benefits:

- By using the ED pig in conjunction with four sealing discs and two guide discs, it provides an effective seal that's critical when separating dissimilar fluids or dewatering during hydrostatic testing.
- With repeated use, sealing discs can experience wear and tear. The ED pig can still reverse direction without compromising its sealing capabilities.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- Standard bumper noses cushion the pig and help to protect in-line auxiliary equipment, preventing damage.
- Every Apache ED 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 the 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.

Designed to negotiate 1.5D bends, the ED 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.
- Aluminum gauge plates in slotted or standard styles.
- Transmitter housing to accommodate electronic tracking equipment.
- CARVER discs.
- 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.

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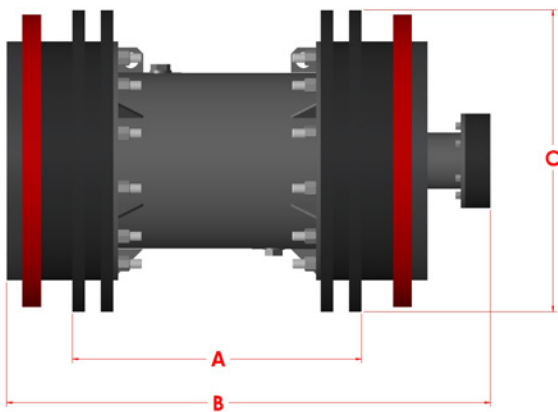
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DISPLACEMENT

MDK

16-48" (406-1219mm)

The rugged MDK pig was specifically developed for use during the testing stage of mainline pipeline construction projects.



| Size | A | B | C | Weight | Part # |
|------|--------|--------|--------|--------|------------|
| 16" | 15.000 | 28.250 | 15.875 | 161 | 70-7776-16 |
| 20" | 19.250 | 34.750 | 20.000 | 264 | 70-7776-20 |
| 24" | 23.750 | 38.500 | 24.000 | 372 | 70-7776-24 |
| 30" | 29.750 | 48.875 | 30.250 | 632 | 70-7776-30 |
| 36" | 35.250 | 52.500 | 36.500 | 816 | 70-7776-36 |
| 42" | 41.250 | 65.500 | 42.125 | 1208 | 70-7776-42 |
| 48" | 46.500 | 72.750 | 48.875 | 1500 | 70-7776-48 |

Features & Benefits:

- The MDK pig features an inner and outer mandrel. Because the inner mandrel withstands the punishing battering inflicted during the construction process, and the exterior disc carrying the outer mandrel remains untouched, the MDK dual mandrel is preferred by mainline contractors, every pig is equipped with a durable guide disc at each end. These discs center the sealing discs in the line, which allows the four sealing discs in the center to form a quadruple seal during displacement.
- 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.
- Every Apache MDK 16"- 48" pig is manufactured with by-pass ports. These ports feature threaded plugs that can be removed, should by-pass be required.

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

Options Available:

- Circular flange brushes or block brushes in the following types and trim materials (not available for testing):
 1. Trim types – flat wire or pencil.
 2. Trim material – carbon steel, stainless steel, plastic, or tin-coated.
- Transmitter housing to accommodate electronic tracking equipment.
- 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.

DISPLACEMENT

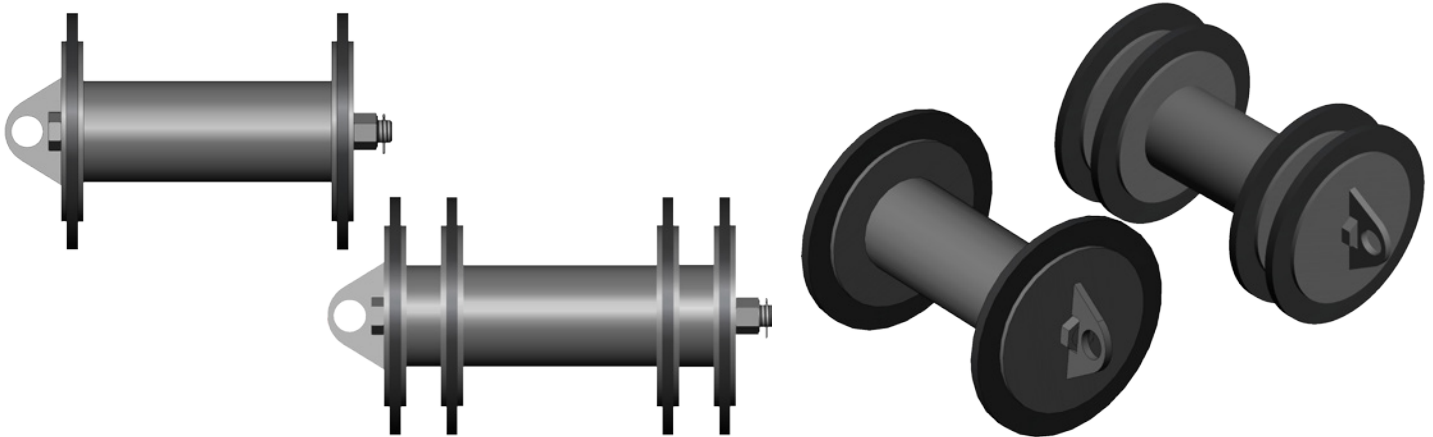
MD2 & MD4

3-14" (76-356mm)

Versatile, economic and efficient. That sums up the MD pigs.

Its primary function is to displace water during the hydrostatic testing stage of construction. The operator simply fills the line with liquid, displacing the liquid without removing the pig.

With its bi-directional design, it can travel in either direction.



Features & Benefits:

- Every MD Series pig, up to 14", features a through-bolt mandrel design, complete with a pull hook. Typically, the longer the intended pig run is, the more discs are required. For maximum versatility, the pig can be fitted with two or four discs, depending on the application.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- With repeated use, sealing discs can experience wear and tear. The MD pig can *still reverse direction* without compromising its sealing capabilities.
- Standard bumper noses cushion the pig and help to protect in-line auxiliary equipment, preventing damage.
- The MD Series is available in either the standard MD2 or the heavy duty MD4 design.

Designed to negotiate 1.5D bends, the MD2 and MD4 pigs move reliably through piping systems.

Options Available:

- UT Mandrel to accommodate electronic tracking equipment.
- 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.

DISPLACEMENT

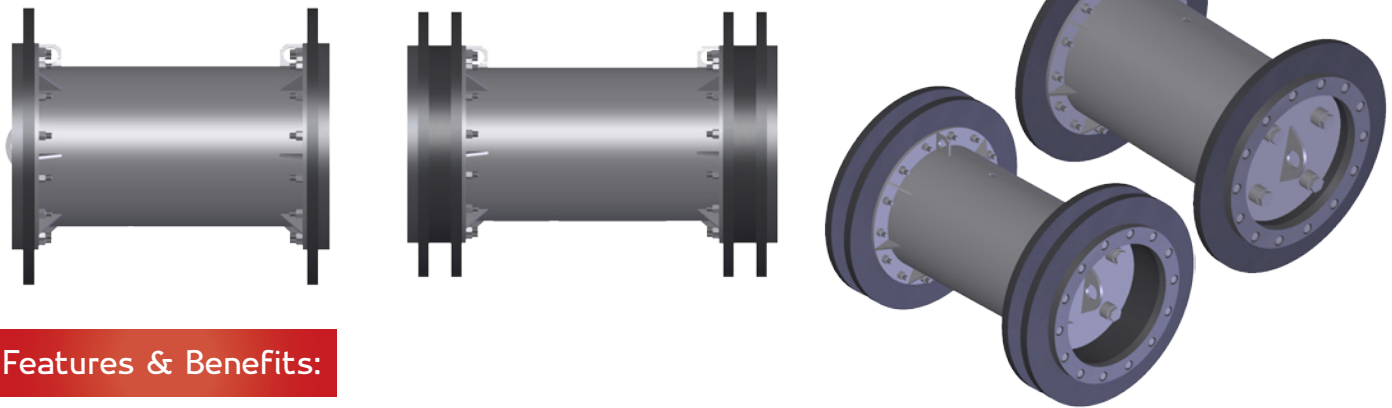
MD2 & MD4

16-48" (406-1219mm)

Versatile, economic and efficient. That's the MD pig.

Designed especially for medium to long pigging runs, its primary function is to displace water during the hydrostatic testing stage of construction. For example, the operator simply fills the line with liquid, displacing the liquid without removing the pig.

With its bi-directional design, it can travel in either direction.



Features & Benefits:

- Every MD Series pig, up to 14", features a through-bolt mandrel design, complete with a pull hook. Typically, the longer the intended pig run is, the more discs are required. To address this, every MD Series pig larger than 16" is equipped with either two or four discs, and bolted to a rugged steel mandrel.
- To maximize durability, all discs are made from Reliathane, Apache's special blend of wear-resistant polyurethane.
- With repeated use, sealing discs can experience wear and tear. The MD pig can still reverse direction without compromising its sealing capabilities.
- Every Apache MD2 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 the 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.
- The MD Series is available in either the standard MD2 or the heavy duty MD4 design.

Designed to negotiate 1.5D bends, the MD2 and MD4 pigs move reliably through piping systems.

Options Available:

- Transmitter housing to accommodate electronic tracking equipment.
- CARVER discs.
- Custom-made gauging plates in aluminum, steel, slotted or standard style.
- 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.