

# WHATIS BOIDE BAICHING?

CIPP (cured in place pipe) patching has been practiced globally for structural repair in short sections of broken and damaged pipe for years and is quickly becoming a front runner in the world of trenchless pipe rehabilitation. Pipe patching is known for its quick ROI, short learning curve, efficiency, and reliability. While a great standalone business, patching is seen as the gateway into full length lining.

Low adoption costs and an easy to learn process make patching a great option for companies that aren't ready to commit to full length lining. You can still offer a full structural repair at a more affordable selling point to your customers that don't need a full reline. Patching makes quick work of jobs that would be time consuming and require costly excavation and disruption. Compared to alternative methods, the rapid cure times and minimal equipment needed for success make pipe patching a great entry point to no-dig point repairs, as well as an additional option for businesses already offering trenchless rehabilitation.

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A NAME You can trust



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# PATCHING

# WHEN TO PATCH

- Residential & Multi Family: no need to dig up landscaping, plants or driveways and don't need to disrupt tenants
- Commercial: no need to disrupt customers or business productivity
- Industrial: no need to close sections of a plant floor or incur high machinery setup and teardown costs
- Medical: no need to close rooms/wings of a hospital or incur high machinery relocation costs

Patching is a valuable solution in numerous scenarios. Here are some of the most common:

- Only a small section of pipe needs to be repaired
- Budget restraints where excavation and/or full-length lining are too costly
- Environmental impact and disruption make replacement difficult
- Too many bends for full length lining to navigate

**COMMON INDUSTRY APPLICATIONS** 







**COMMERCIAL** 



INDUSTRIAL



MEDICAL

# SOLUTION







RIDGID® engineers superior products for start-to-finish pipe cleaning, inspection, and rehabilitation. Our full lineup gives you the performance and durability you need to create lasting results for your customers. From high-powered and versatile drain cleaning machines to cameras that deliver the industry's best in-pipe image, our tools help you see and solve more. Now complemented by this easy-to-learn system, you can offer your customers faster results with way less headache.

# **HOW IT WORKS**



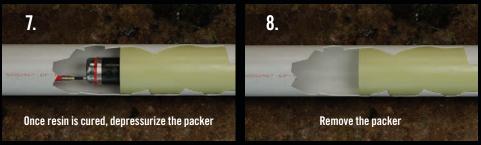










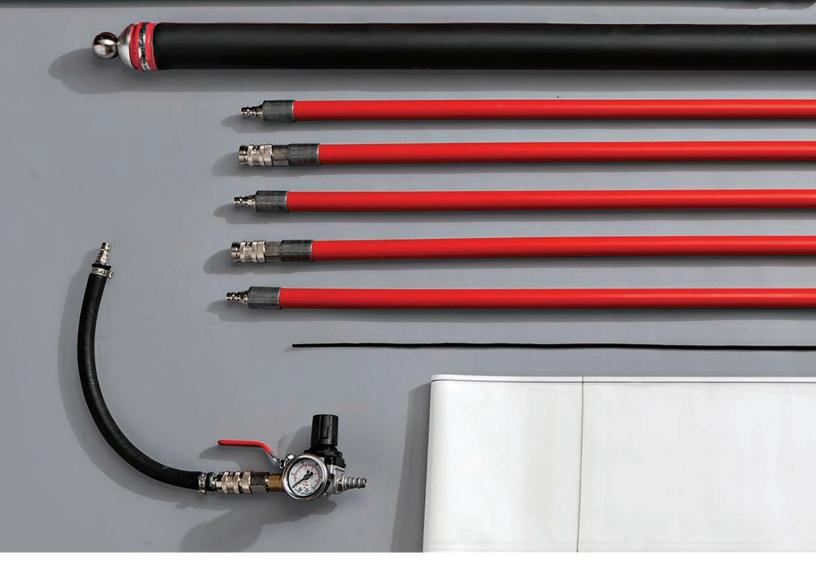


\*Generalized Pipe Patching Steps (Sleeve/Containment Not Shown, Patch Position Shifted For Clarity)

It's that simple. Our complete, no-dig solution allows you to clean, inspect and repair pipe in hours.

TRENCHLESS REPAIRS. FASTER RESULTS.

# Our all-inclusive kits provide the basic equipment and consumables you need to perform pipe patches. Find the products and tools you need, all backed by the RIDGID® quality you know.





#### PIPE PATCH STARTER SYSTEMS

# 

#### Catalog No: 74673

### **STARTER SYSTEMS**

Starter systems include all basic equipment needed to start a pipe patching business. Pipe patching surpasses ASTM F1216 requirements for structural integrity while also providing a fast ROI and easy-to-use process. Includes a Pipe Patch Carry Bag that can hold multiple packers, air push rods, and accessories, thus saving you time and trips between the truck and the job. A less invasive process compared to other pipe repair methods, patching is a great way to enter the CIPP or trenchless market.

CATALOG No.	DESCRIPTION
74658	Pipe Patch Starter System - 2" Pipe x 32" Repair
74663	Pipe Patch Starter System - 3" Pipe x 32" Repair
74673	Pipe Patch Starter System - 3-4" Pipe x 3' Repair
74683	Pipe Patch Starter System - 4-6" Pipe x 3' Repair







# PIPE PATCH STARTER SYSTEMS

74658	74663	74673	74683	
Öş.	PIPE PATCH STARTER SYSTEM 2" PIPE X 32" REPAIR	PIPE PATCH STARTER SYSTEM 3" PIPE X 32" REPAIR	PIPE PATCH STARTER SYSTEM 3-4" PIPE X 3' REPAIR	PIPE PATCH STARTER SYSTEM 4-6" PIPE X 3' REPAIR
Packer	<b>1</b> (74743)	<b>1</b> (74748)	1 <i>(74753)</i>	1 (74763)
Air Push Rod	Integrated	<b>5</b> (74773)	<b>10</b> (74773)	<b>10</b> (74773)
Air Regulator	1 (74783)	1 (74783)	1 (74783)	1 (74783)
Pull Rope	1 (74823)	1 (74823)	1 (74823)	1 (74823)
Containment Kit	1 (74723)	1 (74728)	1 (74733)	1 (74738)
Standard to Lockable Air Adapter	1 (74818)	1 (74818)	1 (74818)	1 (74818)
100' Air Hose	1 (74828)	1 (74828)	1 (74828)	1 (74828)
"D" Ring	<b>2</b> (75368)	<b>2</b> (75368)	<b>2</b> (74848)	<b>2</b> (74848)
Quick Link	<b>2</b> (74873)	<b>2</b> (74873)	<b>2</b> (74873)	<b>2</b> ( <i>74873</i> )
Ball Guide	1 (74893)	1 (74893)	1 (74803)	1 (74803)
Carry Bag	0	1 (74853)	1 (74853)	1 (74853)

 $<sup>\</sup>ensuremath{^{\star}\mathsf{Specific}}$  catalog no.'s are noted in the table

#### **Sold separately**



| PIPE PATCH STARTER SYSTEM |
|---------------------------|---------------------------|---------------------------|---------------------------|
| 2" PIPE X 32" REPAIR      | 3" PIPE X 32" REPAIR      | 3-4" PIPE X 3' REPAIR     | 4-6" PIPE X 3' REPAIR     |
| 1 (74693)                 | <b>1</b> (74698)          | <b>1</b> (74703)          | <b>1</b> (74713)          |

## PIPE PATCH PATCH KITS



Catalog No: 74698



Catalog No: 74718

### **PATCH KITS**

Pipe patch kits enable quick and efficient trenchless pipe repairs with all required consumables and components packaged together for one-time use. These kits make inventory management easier for you, while ensuring you have everything you need to get the job done. Fiberglass liners meet ASTM F1216 requirements and cured patches have a life expectancy of up to 50 years under normal conditions. Our patch kits are designed for 2", 3", 3-4", and 4-6" packers and at lengths for 32", 3', and 6' repairs.

CATALOG No.	DESCRIPTION
74693	Pipe Patch Kit - 2" Pipe x 32" Repair
74698	Pipe Patch Kit - 3" Pipe x 32" Repair
74703	Pipe Patch Kit - 3-4" Pipe x 3' Repair
74708	Pipe Patch Kit - 3-4" Pipe x 6' Repair
74713	Pipe Patch Kit - 4-6" Pipe x 3' Repair
74718	Pipe Patch Kit - 4-6" Pipe x 6' Repair

#### PATCH KITS INCLUDE:

Part A Resin (6' Repair Kits include 2 Bottles)
Part B Resin (6' Repair Kits include 2 Bottles)
Fiberglass Liner
Packer Sleeve x 2
Table Covering
Patch Tape
Elastic Bands
Gloves x 4 Pair







### **PACKERS**

Packers are made of flexible, durable silicone-coated rubber. Engineered to be used in straight pipe, 90-degree bends, P-traps and transitions, these packers let you tackle a variety of pipe configurations with a single tool. Depending on your environment, air push rods or pull rope can move the packer to the patch location. All packers have an internally installed fiberglass push rod, delivering better rigidity without sacrificing flexibility. Packers inflate from the inside out, meaning if there's standing water in pipe, the packer will remove it from the patch location. RIDGID® offers packers for 2", 3", 3-4", and 4-6" pipe for 32", 3' or 6' repairs.

CATALOG No.	DESCRIPTION
74743	Pipe Patch Packer - 2" Pipe x 43" Length
74748	Pipe Patch Packer - 3" Pipe x 43" Length
74753	Pipe Patch Packer - 3-4" Pipe x 4' Length
74758	Pipe Patch Packer - 3-4" Pipe x 7' Length
74763	Pipe Patch Packer - 4-6" Pipe x 4' Length
74768	Pipe Patch Packer - 4-6" Pipe x 7' Length



## **CONTAINMENT KITS**

Containment kits allow for pipe patches when the line is severely damaged or when part of the packer is exposed during installation. The containment kit protects the packer from overinflation and environmental hazards like scale and debris. Containment kits include up to 10' of containment liner, best suited for P-traps, bends, and transitions. For straight sections of pipe, these kits include up to 10' of containment tube. RIDGID® offers containment kits designed for 2", 3", 3-4", and 4-6" packers.

CATALOG No.	DESCRIPTION
74723	Pipe Patch Containment Kit for 2" Packer
74728	Pipe Patch Containment Kit for 3" Packer
74733	Pipe Patch Containment Kit for 3-4" Packer
74738	Pipe Patch Containment Kit for 4-6" Packer

#### PIPE PATCH AIR PUSH RODS



Catalog No: 74773

## **AIR PUSH RODS**

Air push rods easily navigate packers through tight bends and transitions to the patch location. The air push rod features a lockable, hexagonal fitting that keeps it secured to the packer while moving through the pipe. The lockable fitting also allows the entire packer to be rotated with the air push rod - making pushing through tight bends and transitions easier. The RIDGID® pipe patch air push rods come in 5' increments and can be joined together for longer pipe applications up to 100'.

CATALOG No.	DESCRIPTION
74773	Pipe Patch Air Push Rod - 5' Length







Ball & Spring Leader Guide

Air Regulator





Quick Link

"D" Ring



### **ACCESSORIES**

Pipe patching accessories help you stay efficient and productive on the jobsite. The pipe patch carry bag fits multiple packers and air push rods, saving you time and energy making trips from the truck to the job. Packer head attachments can help you navigate the pipe and pull the packer into place. Additional accessories and replacement parts stored on the job save you downtime if you misplace or lose a component.

CATALOG No.	DESCRIPTION
75368	Pipe Patch "D" Ring for 2" & 3" Packers
74848	Pipe Patch "D" Ring for 3-4" & 4-6" Packers
74838	Pipe Patch ¼" Steinco F/F Lockable Coupling
74828	Pipe Patch 100' Air Hose - Fittings Included
74893	Pipe Patch 2" Ball Guide for 2" & 3" Packers
74803	Pipe Patch 2" Ball Guide for 3-4" & 4-6" Packers
74883	Pipe Patch Air Gauge
74783	Pipe Patch Air Regulator
74888	Pipe Patch Ball & Spring Leader Guide for 2" & 3" Packers
74798	Pipe Patch Ball & Spring Leader Guide for 3-4" & 4-6" Packers
74853	Pipe Patch Carry Bag
75358	Pipe Patch Elastic Bands for 2" Packers
74858	Pipe Patch Elastic Bands for 3", 3-4" & 4-6" Packers
74813	Pipe Patch Flexible Adapter - 3" & 4-6" Packers
74808	Pipe Patch Flexible Adapter - 3-4" Packers
74823	Pipe Patch Pull Rope - 250' Length
74873	Pipe Patch Quick Links (Qty-2)
74863	Pipe Patch Resin Only - 3' Patch
74878	Pipe Patch Resin Only - 32" Patch
74818	Pipe Patch Standard to Lockable Air Adapter
74868	Pipe Patch Tape

#### PRODUCT SPECIFICATIONS



74693	74698	74703	74713	
	2" Patch Kit	3" Patch Kit	3-4" Patch Kit	4-6" Patch Kit
Resin Working Time	15 minutes @ 68°F			
Resin Set Time	90 minutes	90 minutes	90 minutes	90 minutes
Final Cure Time	4 hours	4 hours	4 hours	4 hours
Resin Shelf Life	1 Year	1 Year	1 Year	1 Year
Resin Storage Temperature	41°F - 113°F	41°F - 113°F	41°F - 113°F	41°F - 113°F
Resin Application Temperature	41°F - 68°F	41°F - 68°F	41°F - 68°F	41°F - 68°F
Liner Material	Fiberglass	Fiberglass	Fiberglass	Fiberglass
Cured Patch Thickness	0.16"	0.16"	0.16"	0.16"
Cured Patch Tensile Strength	34,889 psi (241N/mm^2)	34,889 psi (241N/mm^2)	34,889 psi (241N/mm^2)	34,889 psi (241N/mm^2)

# HELPFUL FACTS AND PROSESSED TO SERVICE AND THE PROSESSED FOR THE P

#### 1. WATER RESISTANCE

RIDGID® pipe patching kits can be installed with water present in the pipe. If heavy infiltration is present cure times may need to be longer to ensure a proper seal.

#### 2. RETURN TO SERVICE

After the resin set time is complete and the packer is removed, the pipe can be immediately returned to service.

#### 3. LIFE EXPECTANCY

RIDGID Pipe Patches have a life expectancy of up to 50 years under normal conditions inside of a sanitary sewer system.

#### 4. STRENGTH

Exceeding ASTM F1216 standards, the combination of silicate resin and fiberglass liner make the results reliable and long-lasting.

#### 5. CREW SIZE NEEDED

While the system is extremely easy to install, we recommend a 2-person team for pipe patching.

#### **6. PACKERS CAN BE REPAIRED**

RIDGID Packers can be fully rebuilt by the skilled technicians in our authorized service centers.

