

# FlexShaft™

## FIND THE RIGHT CHAIN KNOCKER FOR THE JOB TO GET WALL-TO-WALL CLEAN

Use the table below for recommended options based on blockage, pipe size and pipe type.

K9-306 MACHINE



### K9-306 MACHINE



|                   |               | 66618                 | 66623                 | 66628                  | 66633                 | 66638                 | 66643                  | 66648                        | 66653                        | 66658                        |
|-------------------|---------------|-----------------------|-----------------------|------------------------|-----------------------|-----------------------|------------------------|------------------------------|------------------------------|------------------------------|
|                   |               | K9-306 3"             | K9-306 4"             | K9-306 6"              | K9-306 3" CARBIDE     | K9-306 4" CARBIDE     | K9-306 6" CARBIDE      | K9-306 - 3" PENETRATING HEAD | K9-306 - 4" PENETRATING HEAD | K9-306 - 6" PENETRATING HEAD |
|                   |               | 3"- 4"<br>(76-102 mm) | 4"-5"<br>(102-127 mm) | 5"- 6"<br>(127-152 mm) | 3"- 4"<br>(76-102 mm) | 4"-5"<br>(102-127 mm) | 5"- 6"<br>(127-152 mm) | 3"- 4"<br>(76-102 mm)        | 4"-5"<br>(102- 127 mm)       | 5"- 6"<br>(127-152 mm)       |
| PIPE TYPE         | COPPER        | ☑                     | ☑                     | ☑                      | ☑                     | ☑                     | ☑                      | ☑                            | ☑                            | ☑                            |
|                   | GALVANIZED    | ☑                     | ☑                     | ☑                      | ☑                     | ☑                     | ☑                      | ☑                            | ☑                            | ☑                            |
|                   | CAST IRON     | ☑                     | ☑                     | ☑                      | ☑                     | ☑                     | ☑                      | ☑                            | ☑                            | ☑                            |
|                   | PVC           | ☑                     | ☑                     | ☑                      |                       |                       |                        |                              |                              |                              |
|                   | ABS           | ☑                     | ☑                     | ☑                      |                       |                       |                        |                              |                              |                              |
|                   | ORANGEBURG    | ☑                     | ☑                     | ☑                      |                       |                       |                        |                              |                              |                              |
|                   | CORRUGATED    | ☑                     | ☑                     | ☑                      |                       |                       |                        |                              |                              |                              |
|                   | CLAY          | ☑                     | ☑                     | ☑                      |                       |                       |                        |                              |                              |                              |
| BLOCKAGE          | GREASE        | ☑                     | ☑                     | ☑                      | ☑                     | ☑                     | ☑                      | ☑                            | ☑                            | ☑                            |
|                   | SOFT BLOCKAGE | ☑                     | ☑                     | ☑                      | ☑                     | ☑                     | ☑                      | ☑                            | ☑                            | ☑                            |
|                   | SCALING       |                       |                       |                        | ☑                     | ☑                     | ☑                      | ☑                            | ☑                            | ☑                            |
|                   | ROOTS         |                       |                       |                        | ☑                     | ☑                     | ☑                      | ☑                            | ☑                            | ☑                            |
|                   | WIPES         |                       |                       |                        |                       |                       |                        | ☑                            | ☑                            | ☑                            |
| INCLUDED WITH KIT |               |                       | ☑                     | ☑                      |                       |                       |                        |                              |                              |                              |

Any chain knocker can be purchased separately.



5 Commonwealth Ave  
Woburn, MA 01801  
Phone 781-665-1400  
Toll Free 1-800-517-8431



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# SET UP FOR SUCCESS

## A QUICK GUIDE FOR PROPER DRILL SETUP AND CLEANING



Read and follow all warnings and instructions for all equipment and materials used with these machines.

### 1 THE RIGHT TOOL FOR THE JOB

FlexShaft machines require a cordless drill equipped with an adjustable clutch and a speed range between 1800 and 2500 RPM. Do not use with an impact driver or corded drill.

### 2 DIAL UP THE SPEED

Set your drill to the highest speed – typically setting “2” or “3” is optimal.

### 3 MODE MATTERS

Always set your drill to **screw driving mode** to enable the adjustable clutch. The clutch is not operational in drill or hammer modes (common markings are shown).

### 4 MANAGE YOUR CLUTCH

Always start cleaning with the adjustable clutch set relatively low (~25% of the max range).



## CLEANING WITH YOUR FLEXSHAFT MACHINE

### STEP 1

Once the drill is properly set up (items 1-4 above), make sure the clutch is set to 25%, attach the drill chuck to the drill shaft.

### STEP 2

Choose the right chain knocker based on your cleaning situation (see back for details).

### STEP 3

When clearing blockages, operate drill at full speed for best cleaning. Do not force the chain knocker into blockages. If drill clutches out, back out of blockage and get chain knockers spinning again before re-entering the blockage.

### STEP 4

If the drill continues to clutch out, the adjustable clutch setting can be increased. Increase the clutch setting, but do not exceed 75% of the total clutch adjustment range as this increases the risk of cable damage in the drum of the drain cleaner.

### STEP 5

If the drill continues to clutch out, consider using another RIDGID drain cleaning machine.



# FlexShaft™

FIND THE RIGHT BRUSH TO CLEAN AND PREPARE DRAINS WALL TO WALL



K9-102 MACHINE

K9-204 MACHINE

K9-306 MACHINE



Nylon Brush



Nylon and Steel Brush

| APPLICATION                |                       | <ul style="list-style-type: none"> <li>▶ Nylon material for gentle cleaning of fragile pipes</li> <li>▶ Suitable as a centering guide for other tools</li> <li>▶ Suitable for spreading resin when spray lining</li> </ul> |        |        |          |         |          |          |         |        | <ul style="list-style-type: none"> <li>▶ Nylon – Steel material for cleaning &amp; light grinding</li> <li>▶ Suitable for relining preparation of PVC &amp; cast iron pipes</li> </ul> |          |          |          |         |  |  |
|----------------------------|-----------------------|--|--------|--------|----------|---------|----------|----------|---------|--------|--|----------|----------|----------|---------|--|--|
| BRUSH MATCHING             | FLEXSHAFT MODEL       | K9-102   |        | K9-204 |          |         | K9-306   |          |         | K9-204 |  |          | K9-306   |          |         |  |  |
|                            | CATALOG NO.           | 68933  | 68938  | 68943  | 68948    | 68953   | 68958    | 68963    | 68968   | 68973  | 68978  | 68983    | 68988    | 68993    | 68998   |  |  |
|                            | PIPE SIZE (inch / mm) | 1 - 1/2 / 40   | 2 / 50 | 2 / 50 | 3 / 75   | 4 / 100 | 3 / 75   | 4 / 100  | 6 / 150 | 2 / 50 | 3 / 75   | 4 / 100* | 3 / 75   | 4 / 100  | 6 / 150 |  |  |
|                            | PIPE MATERIAL         | COPPER   | ✓      |        |          |         |          |          |         |        |  | ✓        |          |          |         |  |  |
|                            |                       | GALVANIZED   | ✓      |        |          |         |          |          |         |        |  | ✓        |          |          |         |  |  |
|                            |                       | CAST IRON  | ✓      |        |          |         |          |          |         |        |  | ✓        |          |          |         |  |  |
|                            |                       | PVC  | ✓      |        |          |         |          |          |         |        |  | ✓        |          |          |         |  |  |
|                            |                       | ABS  | ✓      |        |          |         |          |          |         |        |  | ✓        |          |          |         |  |  |
|                            |                       | ORANGEBURG   | ✓      |        |          |         |          |          |         |        |  |          |          |          |         |  |  |
|                            |                       | CORRUGATED   | ✓      |        |          |         |          |          |         |        |  |          |          |          |         |  |  |
| CLAY                       |                       | ✓  |        |        |          |         |          |          |         |        |  |          |          |          |         |  |  |
| PORCELAIN                  |                       | ✓  |        |        |          |         |          |          |         |        |  |          |          |          |         |  |  |
| BRUSH DIAMETER (inch / mm) | 1 - 1/2 / 40          | 2 / 50   | 2 / 50 | 3 / 75 | 4 / 105* | 3 / 75  | 4 / 105* | 6 / 155* | 2 / 50  | 3 / 75 | 4 / 105  | 3 / 75   | 4 / 105* | 6 / 155* |         |  |  |
| CABLE DIAMETER (mm)        | 6                     | 6  | 8      | 8      | 8        | 10      | 10       | 10       | 8       | 8      | 8  | 10       | 10       | 10       |         |  |  |
| SECURING RING MATCHING     | CATALOG NO.           | 68923  |        | 68918  |          |         | 68928    |          |         | 68918  |  |          | 68928    |          |         |  |  |

\*4" and 6" nylon - steel brushes need to have longer strings in order to provide a thorough cleaning