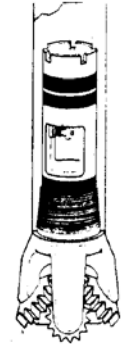


# Drilling Accessories

## Float Valves

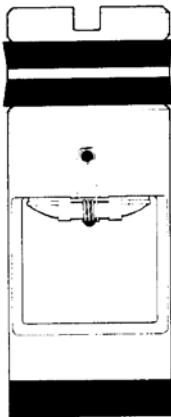
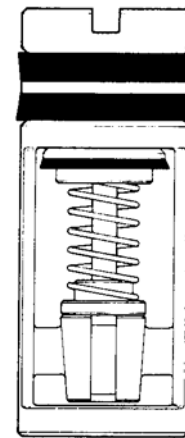
Mills Machine Co. stocks a wide variety of float valves at very competitive prices to sell separately or to install in our subs and stabilizers. We also stock the metal or rubber repair kits. Please contact us if you are not sure which type of float valve to use.



Baker		Demco		Box Tool Joint Size	Valve Diameter	Valve Length
Poppet Style	Flapper Style	Poppet Style				
1R, Model F				2 3/8 API Regular	1 21/32	5 7/8
1F-2R, Model F		27R		2 7/8 API Regular 2 7/8 API Full Hole 2 7/8 API Internal Flush	1 29/32	6 1/4
2F-3R, Model F	2F-3R, Model G	35R		3 1/2 API Regular 2 7/8 API Full Hole 2 7/8 API Internal Flush	2 13/32	6 1/2
3 F, Model F	3 F, Model G			3 1/2 API Full Hole	2 13/16	10
3 1/2, Model F				3 1/2 API Internal Flush	3 1/8	10
4R, Model F	4R, Model G	45R		4 1/2 API Regular	3 15/32	8 5/16
4F, Model F	4F, Model G			4 1/2 API Full Hole 4 API Internal Flush	3 21/32	12
5R, Model F	5R, Model G			5 1/2 API Regular	3 7/8	9 3/4
5F-6R, Model F	5F-6R, Model G	65R		6 5/8 API Regular	4 25/32	11 3/4
6F, Model F				8 5/8 API Regular	5 11/16	14 5/8

Baker is the Registered trademark of Supply Products Division, Baker Oil Tool Co.  
Demco is the Registered trademark of Retasco, Inc.

The Poppet (plunger) Style Valve provides positive and instantaneous shut-off against high or low pressure, assuring continuous flow of the fluid during drilling. It prevents flow-back when adding joints and keeps cuttings out of the drill pipe, preventing plugging while making connections.



The Flapper Style Valve incorporates a specially designed flapper which opens quickly and fully to provide a completely unrestricted bore through the hole. When circulation stops the flapper closes instantly to prevent cuttings from entering the drill string and plugging the bit. The flapper style compliments primary blowout prevention equipment.

"PLEASE CALL FOR CUSTOM OPTIONS AND OTHER ACCESSORIES"

Check out Web Site:  
[www.MillsMachine.com](http://www.MillsMachine.com)

MILLS MACHINE CO. INC., P O BOX 1514, SHAWNEE, OK, 74802  
Phone: 800-654-2703 or 405-273-4900 Fax: 405-273-4956

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# Drilling Accessories

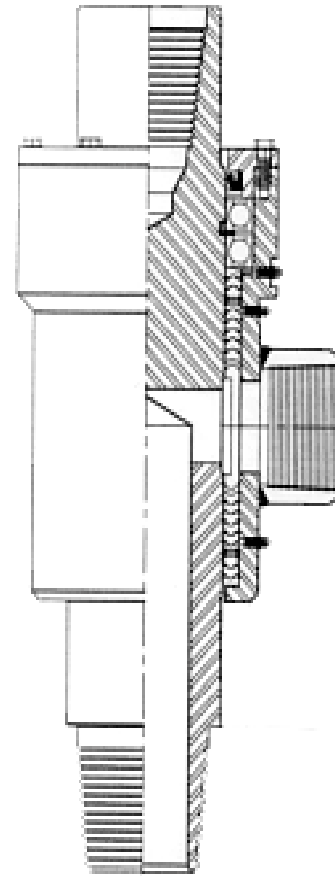
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## Water Swivels

Available are the top mounted swivels or the side inlet swivels. The top mounted swivel comes with a U-bolt bail for conventional drilling or with studs when used as a rotating head. The lower NPT connection can be right or left hand, depending on the drill rig, while the top connection is the standard right hand thread, straight up or with a goose neck.

The side feed swivels is used with hydraulic, top-head drive rigs to insure the prevention of contamination of the hydraulic fluid. They are also used with auger rigs to convert them to circulating, rotary drilling rigs. The bottom connection will be matched to your specific requirements while the side connection is a standard NPT thread. The top is a 1 5/8 or 2 hex pin.

Please specify the bottom connection, water connection and, for side feed, the tops drive connection. These connections will determine the water course diameter.



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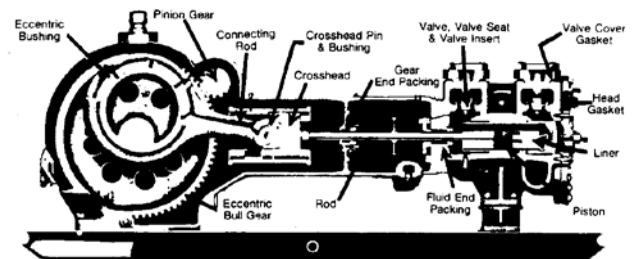
## Mud Pump Parts

Mills Machine Co., Inc. is your source for parts for the following mud pumps:

Gardner-Denver	Fluid end and gear end parts
Wheatly	Fluid end parts
Armstrong	Fluid end parts
Failing	Fluid end parts
Gaso	Fluid end parts
Harrisburg	Fluid end parts
L-K Industries	Fluid end parts
Worthington	Fluid end parts

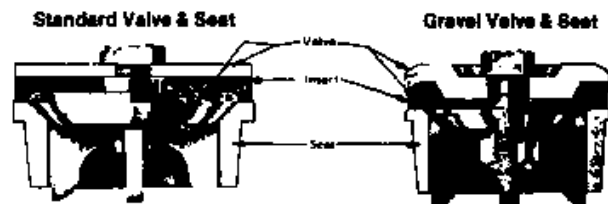
These are just a few of the pumps with parts available. When you call please have the following information available:

Name of pump,  
Pump size,  
Part Number and  
Description of the part.



Some of the parts available are:

Liner - Chrome and Premium  
Rods  
Pistons  
Piston Rubber  
Valve Seat - Standard and Gravel  
Valve Seat - Standard and Gravel  
Valve Insert - Standard and Gravel  
Valve Spring  
Liner Packing  
Rod Packing  
Head Gasket  
Valve Cover Gravel  
Junk Ring  
Lantern Ring  
Gear End Packing  
Eccentric Gear (Bull)  
Eccentric Bushing  
Pinion Gear (Driver)  
Cross Pin  
Cross Pin Bushing



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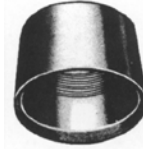
# Drilling Accessories

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## Drive Shoes

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Steel Drive Shoes are available in threaded or weld on design. They are designed to be attached to the bottom of the casing enabling it to be driven into bedrock at the bottom of the hole. We will need to know the size, weight per foot, thread and inner or outer taper design.



## Centralizers

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The Centralizers are designed to attach to the casing or pipe and keep it centered in the hole to insure even distribution during the grouting process. Please specify the pipe diameter and carbon or stainless steel.

## Pipe Thread Compound

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Pipe Thread Compound is carried in stock in one gallon buckets but other sizes are available. The different types available are; JLS –multi purpose tool joint compound, Z-40 or Z-50 Zinc base tool joint compounds. We also stock Pipe Dope Brushes for application of the pipe thread compounds.



## Pipe Thread Protectors

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We stock both plastic and steel thread protectors in a broad range of thread types and sizes. We use this product to protect the threads on our hole openers, stabilizers, etc. during shipping.

## Pipe Wipers

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Pipe wipers come in a range of styles and diameters and include reinforced steel rings for rigidity and strength. Many sizes are available on request. Please let us know if you need the solid or split style.



## Pipe Packers

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Packers with either single or multiple sealing flanges are available with the expander tool assembly. Please call for price and availability.

"PLEASE CALL FOR CUSTOM OPTIONS AND OTHER ACCESSORIES"