



## ПОПЛАВКОВЫЕ КЛАПАНЫ

### MODEL F, FA, FC, G, GA, GC, GCA

## ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

По вопросам продаж и поддержки обращайтесь:

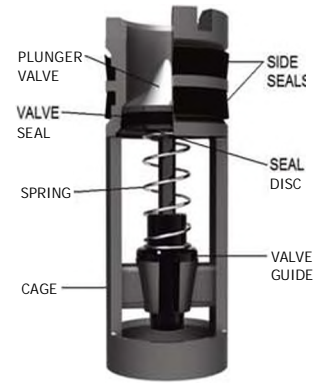
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## MODEL F PLUNGER TYPE STANDARD

F

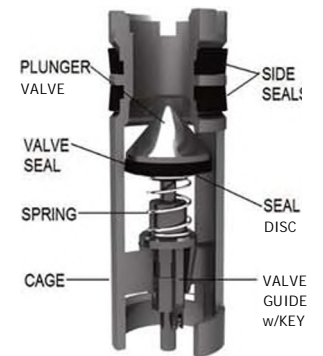
The Model F is a plunger-type float valve that provides a positive instantaneous shut off, providing constant fluid control while drilling. The Model F is a reliable and economical selection under standard drilling operations.



## MODEL FC PLUNGER TYPE AUTOMATIC FILL

FC

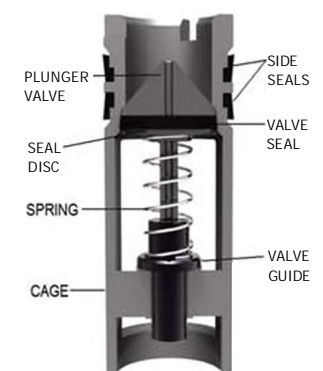
The Model FC Automatic-Fill plunger-type float valve incorporates a unique key assembly and slotted valve stem to hold the plunger open during run in of the drill pipe and allows the pipe to fill from the bottom, saving time, reducing mess, and avoiding hazards. The plunger is automatically released once circulation begins.



## MODEL FA PLUNGER TYPE PRESSURE MONITORING

FA

The Model FA Pressure-Monitoring plunger-type float valve has a special port running through the plunger of the float valve. This valve is used when monitoring the bit head for gas pressure and allowing differential pressure measuring when required. The port also permits partial automatic fill during run in.

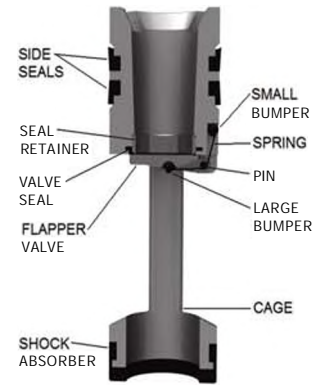


**FLOAT VALVE INSTALLATION:** Simply lubricate the side seals and slide the float valve into the cavity of the float sub or the bored-out drill collar. Caution: fill drill pipe regularly when going in the hole. Failure to do this can cause damage to the drill pipe and float valve.

# MODEL G

## FLAPPER TYPE STANDARD

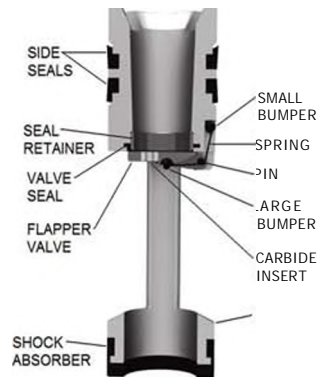
The Model G is a flapper-type float valve that, when opened, offers an unobstructed bore through the float valve. The uniquely designed flapper closes rapidly to prevent shavings from entering the drill string when circulation stops and also assists primary BOP equipment in maintaining internal pressure control. The valve will fully open when the first joint is raised from the hole, preventing pulling wet joints.



# MODEL GA

## FLAPPER TYPE PRESSURE MONITORING

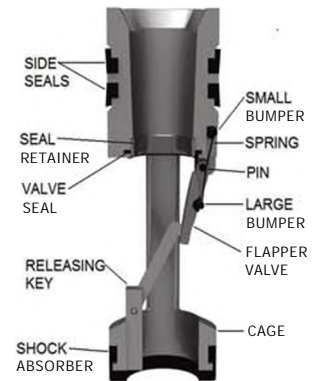
The Model GA Pressure-Monitoring flapper-type float valve is indistinguishable from the Model G with the exception of a tungsten-carbide insert in the flapper valve. The insert has a quarter-inch orifice through the center that allows for differential pressure monitoring. The orifice also allows for partial automatic filling of the drill pipe during run in.



# MODEL GC

## FLAPPER TYPE AUTOMATIC FILL

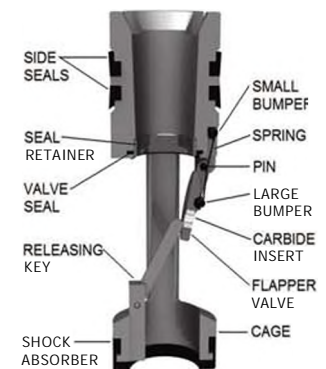
The Model GC Automatic-Fill flapper-type float valve incorporates a unique self-releasing key assembly that holds the flapper partially open during run in, allowing the pipe to fill from the bottom. This eliminates the need for filling the drill pipe from the top, saving time and money. The valve will fully open when the first joint is raised from the hole, preventing pulling wet joints while avoiding the environmental and safety risks related to having mud on the rig floor. The valve can be run with the automatic-fill option or in the standard, closed position.

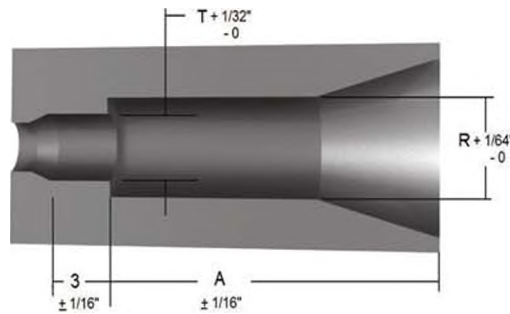
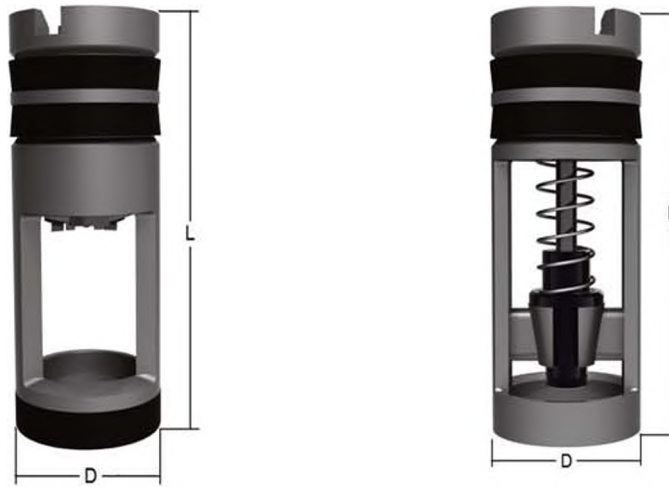


# MODEL GCA

## FLAPPER TYPE AUTO FILL/PRESSURE MONITORING

The Model GCA Automatic-Fill/Pressure-Monitoring flapper-type float valve includes all the advantages of the Models G, GC, and GA. An unobstructed bore through the float valve, when open, permits automatic partial filling of the drill pipe from the bottom and measuring differential pressures when necessary.





$$A = L \text{ (Length of Float Valve)} + \text{Length of Tool Joint Pin} + 1/4" \text{ Clearance}$$

## DIMENSIONAL DATA

Valve Size	D Diameter of Valve	R (D + 1/32) Diameter Recess F/Valve	L Valve Length	7* Baffle Plate Recess Diameter	Valve ID Model F	Valve ID Model G
1R	1-21/32"	1-11/16"	5-7/8"	1-5/16"	1"	N/A
1F-2R	1-29/32"	1-15/16"	6-1/4"	1-1/2"	1-1/4"	1"
2F-3R	2-13/32"	2-7/16"	6-1/2"	1-29/32"	1-9/16"	1-1/4"
3F	2-13/16"	2-27/32"	10"	2-7/16"	1-7/8"	1-5/8"
3.5IF	3-1/8"	3-5/32"	10"	2-11/16"	1-7/8"	1-5/8"
4R	3-15/32"	3-1/2"	8-5/16"	2-15/16"	2-5/16"	1-31/32"
4F	3-21/32"	3-11/16"	12"	3-1/4"	2-1/2"	2-3/16"
5R	3-7/8"	3-29/32"	9-3/4"	3-3/8"	2-3/4"	2-1/4"
5F-6R	4-25/32"	4-13/16"	11-3/4"	4-9/32"	3-1/4"	2-7/8"
6F	5-11/16"	5-23/32"	14-5/8"	5-3/16"	4-1/8"	N/A

\*Disregard if this diameter is the same or smaller than the standard tool joint ID.

# TOOL JOINT SPECIFICATION GUIDE

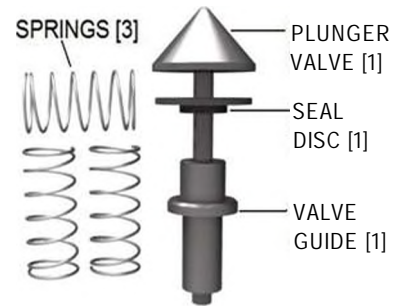
Tool Joint Types	Model Sizes									
	1R	1F-2R	2F-3R	3F	3.5IF	4R	4F	5R	5F-6R	6F
API Regular	2-3/8"	2-7/8"	3-1/2"			4-1/2"		5-1/2" 5-9/16"	6-5/8" 7-5/8"†	8-5/8"
Hughes or Reed Acme	2-3/8"	2-7/8"	3-1/2"			4-1/2"		5-1/2" 5-9/16"	6-5/8"	
Union Tool	2-3/8"	2-7/8" 3-1/2"					4-1/2"	5-1/2" 5-9/16"	6-5/8"†	
Hughes or Reed Double Streamline		2-7/8" 2-3/8"	3-1/2"	4" 4-1/2"			5"	5-1/2" 5-9/16"		
API Full Hole		2-3/8"	2-7/8"	3-1/2"	4"	4-1/2"	4-1/2"			6-5/8"
Reed Acme Full Hole				3-1/2"			4-1/2"		5-1/2" 5-9/16"	
Hughes Acme Streamline		2-3/8"	2-7/8"	3-1/2"			4-1/2"		5-1/2" 5-9/16"	
Hughes Xtra Hole			2-7/8"	3-1/2"			4-1/2"	5"	5-1/2" 5-9/16"	
Reed Semi-Internal Flush			2-7/8"	3-1/2"			4-1/2"	5"		
API Internal Flush		2-3/8"	2-7/8"		3-1/2"		4"	4-1/2"		
Hydril Type IF (Int. Flush Ext. Upset)		2-3/8"	2-7/8"	3-1/2"				4-1/2"	5"	
Hydril EIU (Ext. Int. Upset)				3-1/2"		4"	4-1/2"		5-1/2" 5-9/16"	6-5/8"
Hydril Type F (Ext. Flush)	2 7/8" 3-1/2"			4-1/2" 5"		5-1/2" 5-9/16"		6-5/8"		
Hughes Ext. Flush Acme		3-1/2"	4-1/2"			5-1/2" 5-9/16"		6-5/8"		
Hughes Ext. Flush Full Hole				4-1/2"						

Indicates that the float subs in these sizes have a smaller ID than the standard tool joint ID. †Indicates interchangeability. Models G and GA, are available in sizes 1F-2R through 5F-6R. Models GC and GCA are available in sizes 2F-3R through 5F-6R. Models F and FA are available in all sizes. Model FC is available in sizes 2F-3R through 6F.

## RUBBER REPAIR KIT F



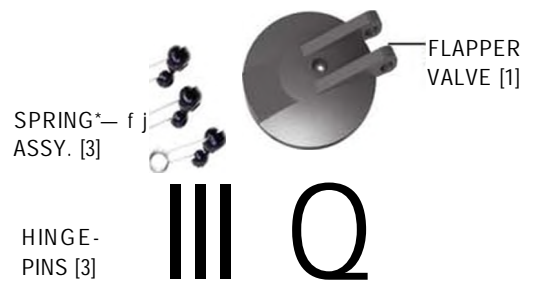
## METAL REPAIR KIT F



## RUBBER REPAIR KIT G



## METAL REPAIR KIT G



## MODEL F VALVE PULLER

The Model F Valve Puller makes easy work of removing stuck or tight float valves from the sub or drill collar. Simply engage the special catch into the bottom of the float valve, rotate 90°, and then simply slide the bumper into the stop and the float valve is removed.

Note: when using the puller to remove a Model FC valve, special care must be taken when engaging the catch so that it does not make contact with the releasing key.



## MODEL G VALVE PULLER

The Model G Valve Puller is dual-purpose tool. In addition to removing tight or stuck float valves from subs or drill collars, it assists in removing and installing the seal-retaining ring when changing out the valve seal.







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