

# Drill Pipe Float Valves



Cages made from hi-tech alloys.  
Coated with Xylan® - the most successful fluoropolymer coating in the world dramatically reduces corrosion and erosion.



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Why Settle for  
Less—  
Insist on the  
Best!

“Maximum Drilling Technology”

**Represented By:**

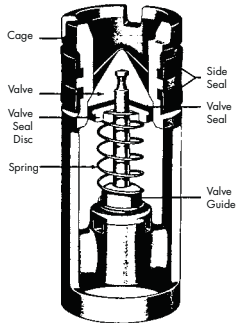
## Huy Minh Corporation

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## Drillmax Float Valve Assemblies

### Types Available

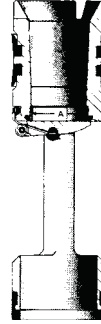
MODEL "F"  
Plunger Type



Plunger type valve offers positive and instant shut-off. In normal drilling operations the Model "F" offers economy and durability. The piston type stops flow-back when making connections and keeps cuttings out of the drill string.

Standard Service - Pg. 3  
Hi-Temp/NACE - Pg 5

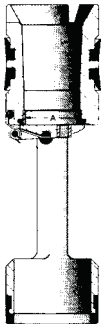
MODEL "G"  
Flapper - Full Flow



Flapper style valve features an investment cast flapper. It has quick opening for full flow through the valve. Designed for highly abrasive drilling fluids.

Standard Service - Pg. 3  
Hi-Temp/NACE - Pg 5

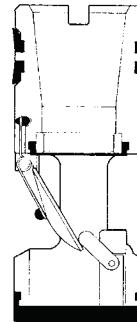
MODEL "GA"  
Flapper - Full Flow  
with Carbide Orifice



Identical to the "G" except for a carbide orifice in the flapper. Allows differential pressure readings at surface.

Standard Service - Pg. 3  
Hi-Temp/NACE - Pg 5

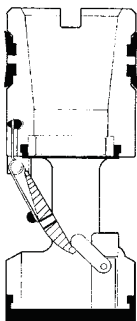
MODEL "GC"  
Flapper - Full Flow  
Automatic Fill



Identical to the "G" but adds an automatic fill feature when going in the hole. Helps prevent pressure surges that could cause formation breakdown.

Standard Service - Pg. 4

MODEL "GCA"  
Flapper - Full Flow  
with Carbide Orifice



Identical to the "GA" but adds the automatic fill feature.

Standard Service - Pg. 4

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# DRILLMAX Drill Pipe Float Valves

## Standard Service

MODEL "F" PLUNGER TYPE								
SIZE	ASSEMBLY P/N	WTS (lbs)	RUBBER REPAIR KIT - P/N	WTS (lbs)	METAL REPAIR KIT - P/N	WTS (lbs)	REPAIR KITS CONTAIN	
1R = DRILLMAX = BAKER®	1310200 480131200	1.5	0120200 016012200	.5	9290800 015929800	1.0	<b>MODEL "F" METAL KIT (3 re-dressings)</b> 3 Ea. - Valve Springs 1 Ea. - Valve Guide 1 Ea. - Valve 1 Ea. - Valve Seal Disc. <b>RUBBER KIT (4 re-dressings)</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals	
1F = DRILLMAX 2R = BAKER®	1310422 480131422	1.5	0120300 016012300	.7	0110300 016011300	2.0		
2F = DRILLMAX 3R = BAKER®	1320432 480132432	2.5	0120400 016012400	.8	0110400 016011400	2.0		
3F = DRILLMAX = BAKER®	1330400 480133400	5.0	0120500 016012500	1.0	0110500 016011500	2.0		
3½ IF = DRILLMAX = BAKER®	1330600 480133600	5.5	0120600 016012600	1.0	0110500 016011500	2.0		
4R = DRILLMAX = BAKER®	1340200 480134200	7.0	0120700 016012700	1.0	0110700 016011700	2.0		
4F = DRILLMAX = BAKER®	1340400 480134400	9.5	0120800 016012800	1.0	0110800 016011800	3.0		
5R = DRILLMAX = BAKER®	1350200 480135200	9.5	0120900 016012900	1.0	0110900 016011900	4.0		
5F = DRILLMAX 6R = BAKER®	1350462 480135462	19.0	0130000 016013000	1.1	0120000 016012000	5.0		
MODEL "G" FULL FLOW FLAPPER TYPE								
1F = DRILLMAX 2R = BAKER®	1510422 480151422	2.0	9880300 051988300	.5	9880400 051988400	.7	<b>MODEL "G" MODEL "GA" METAL KIT</b> 1 Ea. - Seal Retaining Ring 3 Ea. - Hinge Pins 3 Ea. - Spring Assy. 1 Ea. - Flapper Valve One kit has parts for three re-dressings.	
2F = DRILLMAX 3R = BAKER®	1520432 480152432	3.5	0130800 016013800	.6	0130200 016013200	.8		
3F = DRILLMAX = BAKER®	1530400 480153400	5.0	0130900 016013900	1.0	0130300 016013300	1.0		
3½ IF = DRILLMAX = BAKER®	1530600 480153600	5.5	9820000 051982000	1.0	070020 052070200	1.0		
4R = DRILLMAX = BAKER®	1540200 480154200	7.0	0140000 016014000	1.5	0130400 016013400	1.1		
4F = DRILLMAX = BAKER®	1540400 480154400	8.0	0140100 016014100	1.6	0130500 016013500	1.4		
5R = DRILLMAX = BAKER®	1550200 480155200	9.0	0140200 016014200	1.6	0130600 016013600	1.6		
5F = DRILLMAX 6R = BAKER®	1550462 480155462	18.0	0140300 016014300	2.0	0130700 016013700	1.8		
MODEL "GA" FULL FLOW FLAPPER TYPE-WITH CARBIDE ORIFICE								
1F = DRILLMAX 2R = BAKER®	1620422 480161422	2.0	9880300 051988300	.5	0700800 052070800	.8		<b>RUBBER KIT</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring One kit has parts for four re-dressings.
2F = DRILLMAX 3R = BAKER®	1620432 480162432	3.5	0130800 016013800	.6	1350000 017135000	.8		
3F = DRILLMAX = BAKER®	1630400 480163400	5.0	0130900 016013900	1.0	1360700 017136700	1.0		
3½ IF = DRILLMAX = BAKER®	1630600 480163600	5.5	9820000 051982000	1.0	075050 052075500	1.0		
4R = DRILLMAX = BAKER®	1640200 480164200	7.0	0140000 016014000	1.5	1160000 017116000	1.1		
4F = DRILLMAX = BAKER®	1640400 480164400	8.0	0140100 016014100	1.6	1360800 017136800	1.4		
5R = DRILLMAX = BAKER®	1650200 480165200	9.0	0140200 016014200	1.6	1360900 017136900	1.6		
5F = DRILLMAX 6R = BAKER®	1650462 480165462	18.0	0140300 016014300	2.0	1360200 017134200	1.8		

## DRILLMAX Drill Pipe Float Valves

### Standard Service

MODEL "GC" FULL FLOW FLAPPER TYPE WITH AUTOMATIC FILL AVAILABLE IN HI-TEMP - CONSULT FACTORY FOR PRICE/DELIVERY							
SIZE	P/N ASSEMBLY	(lbs) WTS	KIT - P/N RUBBER REPAIR	(lbs) WTS	KIT - P/N METAL REPAIR	(lbs) WTS	CONTAIN REPAIR KITS
<b>2F</b> DRILLMAX <b>3R = BAKER®</b>	<b>1920432</b> 480192432	<b>3.5</b>	<b>0130800</b> 016013800	<b>.6</b>	<b>0130200</b> 016013200	<b>.8</b>	<b>MODEL "GC" METAL KIT</b> 1 Ea. - Seal Retaining Ring 3 Ea. - Hinge Pins 3 Ea. - Spring Assy. 1 Ea. - Flapper Valve One kit has parts for three re-dressings. <b>RUBBER KIT</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring One kit has parts for four re-dressings.
<b>3F</b> DRILLMAX <b>= BAKER®</b>	<b>1930400</b> 480193400	<b>5.0</b>	<b>0130900</b> 016013900	<b>1.0</b>	<b>0130300</b> 016013300	<b>1.0</b>	
<b>3<sup>1/2</sup></b> DRILLMAX <b>IF = BAKER®</b>	<b>1930600</b> 480193600	<b>5.5</b>	<b>9820000</b> 051982000	<b>1.0</b>	<b>0130300</b> 016013300	<b>1.0</b>	
<b>4R</b> DRILLMAX <b>= BAKER®</b>	<b>1940200</b> 480194200	<b>7.0</b>	<b>0140000</b> 016014000	<b>1.5</b>	<b>0130400</b> 016013400	<b>1.1</b>	
DRILLMAX <b>4F = BAKER®</b>	<b>1940400</b> 480194400	<b>8.0</b>	<b>0140100</b> 016014100	<b>1.6</b>	<b>0130500</b> 016013500	<b>1.4</b>	
DRILLMAX <b>5R = BAKER®</b>	<b>1950200</b> 480195200	<b>9.0</b>	<b>0140200</b> 016014200	<b>1.6</b>	<b>0130600</b> 016013600	<b>1.6</b>	
DRILLMAX <b>5F = BAKER®</b>	<b>1950462</b> 480195462	<b>18.0</b>	<b>0140300</b> 016014300	<b>2.0</b>	<b>0130700</b> 016013700	<b>1.8</b>	
DRILLMAX <b>6R = BAKER®</b>							

MODEL "GCA" FULL FLOW FLAPPER TYPE WITH AUTOMATIC FILL (WITH CARBIDE ORIFICE) AVAILABLE IN HI-TEMP - CONSULT FACTORY FOR PRICE/DELIVERY							
SIZE	ASSEMBLY P/N	WTS (lbs)	RUBBER REPAIR KIT - P/N	WTS (lbs)	METAL REPAIR KIT - P/N	WTS (lbs)	REPAIR KITS CONTAIN
<b>2F</b> DRILLMAX <b>3R = BAKER®</b>	<b>1920433</b> 480192433	<b>3.5</b>	<b>0130800</b> 016013800	<b>.6</b>	<b>1350000</b> 017135000	<b>.8</b>	<b>MODEL "GCA" METAL KIT</b> 1 Ea. - Seal Retaining Ring 3 Ea. - Hinge Pins 3 Ea. - Spring Assy. 1 Ea. - Flapper Valve One kit has parts for three re-dressings. <b>RUBBER KIT</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring One kit has parts for four re-dressings.
<b>3F</b> DRILLMAX <b>= BAKER®</b>	<b>1930401</b> 480193401	<b>5.0</b>	<b>0130900</b> 016013900	<b>1.0</b>	<b>1360700</b> 017136700	<b>1.0</b>	
<b>3<sup>1/2</sup></b> DRILLMAX <b>IF = BAKER®</b>	<b>1930601</b> 480193601	<b>5.5</b>	<b>9820000</b> 051982000	<b>1.0</b>	<b>1360700</b> 017136700	<b>1.0</b>	
<b>4R</b> DRILLMAX <b>= BAKER®</b>	<b>1940201</b> 480194201	<b>7.0</b>	<b>0140000</b> 016014000	<b>1.5</b>	<b>1160000</b> 017116000	<b>1.1</b>	
DRILLMAX <b>4F = BAKER®</b>	<b>1940401</b> 480194401	<b>8.0</b>	<b>0140100</b> 016014100	<b>1.6</b>	<b>1360800</b> 017136800	<b>1.4</b>	
DRILLMAX <b>5R = BAKER®</b>	<b>1950201</b> 480195201	<b>9.0</b>	<b>0140200</b> 016014200	<b>1.6</b>	<b>1360900</b> 017136900	<b>1.6</b>	
DRILLMAX <b>5F = BAKER®</b>	<b>1950463</b> 480195463	<b>18.0</b>	<b>0140300</b> 016014300	<b>2.0</b>	<b>1360200</b> 017134200	<b>1.8</b>	
DRILLMAX <b>6R = BAKER®</b>							

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### Hi-Temp Service / NACE

MODEL "F" - HI-TEMP/NACE SEALS								
SIZE	ASSEMBLY P/N	WTS (lbs)	RUBBER REPAIR KIT - P/N	WTS (lbs)	METAL REPAIR KIT - P/N	WTS (lbs)	REPAIR KITS CONTAIN	
<b>1R</b> DRILLMAX = BAKER®	<b>3010200</b> 480301200	<b>1.5</b>	<b>0810701</b> 071081701	<b>.5</b>	<b>0840901</b> 071084901	<b>1.0</b>	<b>MODEL "F" METAL KIT</b> <b>(3 re-dressings)</b> 3 Ea. - Valve Springs 1 Ea. - Valve Guide 1 Ea. - Valve Seal Disc <b>RUBBER KIT</b> <b>(4 re-dressings)</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals	
<b>1F</b> DRILLMAX <b>2R</b> = BAKER®	<b>3010422</b> 480301422	<b>1.5</b>	<b>0810801</b> 071081801	<b>.7</b>	<b>0850001</b> 071085001	<b>2.0</b>		
<b>2F</b> DRILLMAX <b>3R</b> = BAKER®	<b>3020432</b> 480302432	<b>2.5</b>	<b>0810901</b> 071081901	<b>.8</b>	<b>0850101</b> 071085101	<b>2.0</b>		
<b>3F</b> DRILLMAX = BAKER®	<b>3030400</b> 480303400	<b>5.0</b>	<b>0820001</b> 071082001	<b>1.0</b>	<b>0850201</b> 071085201	<b>2.0</b>		
<b>3 1/2</b> DRILLMAX <b>IF</b> = BAKER®	<b>3030600</b> 480303600	<b>5.5</b>	<b>0820101</b> 071082101	<b>1.0</b>	<b>0850301</b> 071085301	<b>2.0</b>		
<b>4R</b> DRILLMAX = BAKER®	<b>3040200</b> 480304200	<b>7.0</b>	<b>0820201</b> 071082201	<b>1.0</b>	<b>0850401</b> 071085401	<b>2.0</b>		
<b>4F</b> DRILLMAX = BAKER®	<b>3040400</b> 480304400	<b>9.5</b>	<b>0820301</b> 071082301	<b>1.0</b>	<b>0850501</b> 071085501	<b>3.0</b>		
<b>5R</b> DRILLMAX = BAKER®	<b>3050200</b> 480305200	<b>9.5</b>	<b>0820401</b> 071082401	<b>1.0</b>	<b>0850601</b> 071085601	<b>4.0</b>		
<b>5F</b> DRILLMAX <b>6R</b> = BAKER®	<b>3050462</b> 480305462	<b>19.0</b>	<b>0820501</b> 071082501	<b>1.1</b>	<b>0850701</b> 071085701	<b>5.0</b>		
MODEL "G" - HI-TEMP/NACE SEALS								
<b>1F</b> DRILLMAX <b>2R</b> = BAKER®	<b>3110422</b> N/A	<b>1.5</b>	<b>0820601</b> N/A	<b>.5</b>	<b>0850801</b> N/A	<b>1.0</b>	<b>MODEL "G" MODEL "GA" METAL KIT</b> 1 Ea. - Seal Retaining Ring 3 Ea. - Hinge Pins 3 Ea. - Spring Assy. 1 Ea. - Flapper Valve One kit has parts for three re-dressings.	
<b>2F</b> DRILLMAX <b>3R</b> = BAKER®	<b>3120432</b> 480312432	<b>3.5</b>	<b>0820701</b> 071082701	<b>.6</b>	<b>0850901</b> 071085901	<b>.8</b>		
<b>3F</b> DRILLMAX = BAKER®	<b>3130400</b> 480313400	<b>5.0</b>	<b>0820801</b> 071082801	<b>1.0</b>	<b>0860001</b> 071086001	<b>1.0</b>		
<b>3 1/2</b> DRILLMAX <b>IF</b> = BAKER®	<b>3130500</b> N.A.	<b>5.5</b>	<b>0820851</b> N.A.	<b>1.0</b>	<b>0860001</b> 071086001	<b>1.0</b>		
<b>4R</b> DRILLMAX = BAKER®	<b>3140200</b> 480314200	<b>7.0</b>	<b>0820901</b> 071082901	<b>1.5</b>	<b>0860101</b> 071086101	<b>1.1</b>		
<b>4F</b> DRILLMAX = BAKER®	<b>3140400</b> 480314400	<b>8.0</b>	<b>0830001</b> 071083001	<b>1.6</b>	<b>0860201</b> 071086201	<b>1.4</b>		
<b>5R</b> DRILLMAX = BAKER®	<b>3150200</b> 480315200	<b>9.0</b>	<b>0830101</b> 071083101	<b>1.6</b>	<b>0860301</b> 071086301	<b>1.6</b>		
<b>5F</b> DRILLMAX <b>6R</b> = BAKER®	<b>3150462</b> 480315462	<b>18.0</b>	<b>0830201</b> 071083201	<b>2.0</b>	<b>0860401</b> 071086401	<b>1.8</b>		
MODEL "GA" - HI-TEMP/NACE SEALS								
<b>2F/3R</b>	<b>4120432</b>	<b>3.5</b>	<b>0820701</b>	<b>.6</b>	<b>1850901</b>	<b>.8</b>		<b>RUBBER KIT</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring One kit has parts for four re-dressings.
<b>3F</b>	<b>4130400</b>	<b>5.0</b>	<b>0820801</b>	<b>1.0</b>	<b>1860001</b>	<b>1.0</b>		
<b>3 1/2 IF</b>	<b>4130500</b>	<b>5.5</b>	<b>0820851</b>	<b>1.0</b>	<b>1860001</b>	<b>1.0</b>		
<b>4R</b>	<b>4140200</b>	<b>7.0</b>	<b>0820901</b>	<b>1.5</b>	<b>1860101</b>	<b>1.1</b>		
<b>4F</b>	<b>4140400</b>	<b>8.0</b>	<b>0830001</b>	<b>1.6</b>	<b>1860201</b>	<b>1.4</b>		
<b>5R</b>	<b>4150200</b>	<b>9.0</b>	<b>0830101</b>	<b>1.6</b>	<b>1860301</b>	<b>1.6</b>		
<b>5F/6R</b>	<b>4150462</b>	<b>18.0</b>	<b>0830201</b>	<b>2.0</b>	<b>1860401</b>	<b>1.8</b>		

BAFFLE PLATES					
PART NUMBER		DESCRIPTION	DPFV SIZE	TYPE	WTS.
9170010	★	2 7/8" API Regular	1F2R	Spider	.5 lb.
9170020	★	3 1/2" API Regular	2F3R	Ring	.4 lb.
9170030	★	4 1/2" API Regular	4R	Ring	.8 lb.
9170040	★	5 9/16" API Regular	5R	Ring	1.3 lbs.
9170050	★	6 5/8" API Regular	5F6R	Ring	1.5 lbs.
9170060	★	7 5/8" API Regular	5F6R	Ring	1.7 lbs.
9170110	★★	3 1/2" API Full Hole	3F	Spider	.6 lb.
9170120	★★	4 1/2" API Full Hole	4F	Ring	.9 lb.
9170130	★★	5 9/16" API Full Hole	5F6R	Ring	1.5 lbs.
9170210	★★★	3 1/2" API Full Hole	3F	Spider	.6 lb.
9170220	★★★	4 1/2" API Full Hole	4F	Spider	.7 lb.
		4 1/2" API Regular	4R		
		5 9/16" API Regular	5R		
9170230	★★★	5 9/16" API Full Hole	5F6R	Spider	1.0 lb.
		6 5/8" API Regular	5F6R		
9170250	★★★	3 1/2" API Internal Flush	3 1/2 IF	Spider	.6 lb.
9170400	★★	2 7/8" API Internal Flush	2F3R	Ring	.7 lb.
9170410	★★	3 1/2" API Internal Flush	3 1/2 IF	Ring	.72 lb.
9170420	★★	4 1/2" API Internal Flush	5R	Ring	1.3 lbs.
9170430	★★	2 7/8" API Internal Flush	2F3R	Spider	.7 lb.
9170440	★★	4" API IF / 4 1/2" X H	4F	Ring	1.0 lb.

★ For Use on Bit

★★ For Use in Joint

★★★ For Use on Float

### Specialty Items:

Muleshoes

Seal Ring Removal Tools

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DRILLMAX NOTES

Lined area for taking notes, consisting of horizontal lines.

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

**Bit and Shank Sizes**

Bit Size (inches)	3 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>	4 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	6	6 <sup>1</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>2</sub>	6 <sup>3</sup> / <sub>4</sub>	7 <sup>7</sup> / <sub>8</sub>	8 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	8 <sup>3</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	9 <sup>3</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	11	12 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	14 <sup>3</sup> / <sub>4</sub>	17 <sup>1</sup> / <sub>2</sub>	20	24	25
Std. API Pin Shank Size (inches)	2 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	2 <sup>3</sup> / <sub>8</sub>	2 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	4 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	6 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>	7 <sup>5</sup> / <sub>8</sub>

**Float Valve Installation**

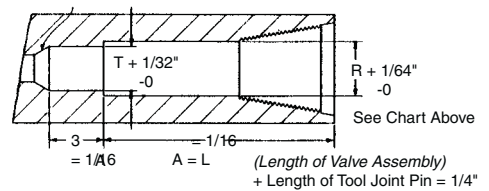
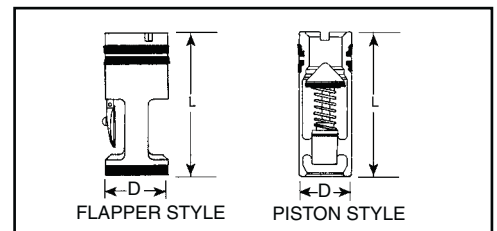
Drillmax Drill Pipe Float Valves are easy to install. Simply lubricate the side seal rubbers and slide the float valve into the cavity of the recess of the float sub or drilled out drill collar.

**CAUTION:** Fill drill pipe regularly when going in the hole. Failure to do so can cause damage to the drill pipe and/or the float valves.

**Drill Pipe Float Valve Subs**

API Regular Threads - Box or Pin

SIZE	O.D.	I.D.	LENGTH	VALVE
2 <sup>3</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub> "	1"	18"	1R
2 <sup>7</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>4</sub> "	20"	1F-2R
3 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub> "	20"	2F-3R
4 <sup>1</sup> / <sub>2</sub> "	5 <sup>1</sup> / <sub>2</sub> "	2 <sup>1</sup> / <sub>4</sub> "	24"	4R
5 <sup>1</sup> / <sub>2</sub> "	6 <sup>3</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>4</sub> "	28"	5R
6 <sup>5</sup> / <sub>8</sub> "	7 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>2</sub> "	30"	5F-6R
7 <sup>5</sup> / <sub>8</sub> "	8 <sup>7</sup> / <sub>8</sub> "	4"	30"	5F-6R
8 <sup>5</sup> / <sub>8</sub> "	10"	4 <sup>3</sup> / <sub>4</sub> "	30"	6F



API Full Hole - Box or Pin

SIZE	O.D.	I.D.	LENGTH	VALVE
2 <sup>7</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>8</sub> "	20"	2F-2R
3 <sup>1</sup> / <sub>2</sub> "	4 <sup>5</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>16</sub> "	24"	3F
4"	5 <sup>1</sup> / <sub>4</sub> "	2 <sup>13</sup> / <sub>16</sub> "	24"	3 <sup>1</sup> / <sub>2</sub> IF
4 <sup>1</sup> / <sub>2</sub> "	5 <sup>3</sup> / <sub>4</sub> "	3"	28"	4F
5 <sup>1</sup> / <sub>2</sub> "	7"	4"	30"	5F-6R
6 <sup>5</sup> / <sub>8</sub> "	8"	5"	30"	6F

API IF Internal Flush - Box or Pin

SIZE	O.D.	I.D.	LENGTH	VALVE
2 <sup>3</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "	1 <sup>3</sup> / <sub>4</sub> "	18"	1F-2R
2 <sup>7</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>8</sub> "	2 <sup>1</sup> / <sub>8</sub> "	20"	2F-3R
3 <sup>1</sup> / <sub>2</sub> "	4 <sup>3</sup> / <sub>4</sub> "	2 <sup>11</sup> / <sub>16</sub> "	24"	3 <sup>1</sup> / <sub>2</sub> IF
4"	5 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	28"	4F
4 <sup>1</sup> / <sub>2</sub> "	6 <sup>1</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>4</sub> "	28"	5R
5 <sup>1</sup> / <sub>2</sub> "	7 <sup>3</sup> / <sub>8</sub> "	4 <sup>13</sup> / <sub>16</sub> "	30"	5F-6R
6 <sup>3</sup> / <sub>8</sub> "	8 <sup>3</sup> / <sub>4</sub> "	5 <sup>29</sup> / <sub>32</sub> "	30"	6F

**Dimensional Data**

MODEL G I.D. OF VALVE	MODEL F I.D. OF VALVE	Size Valve	D Diameter of Valve	R (D PLUS 1/32) Diameter of Recess for Valve	L Length of Valve	T* Diameter of Recess for TOTCO Spider
N/A	1	1R	1 <sup>21</sup> / <sub>32</sub>	1 <sup>11</sup> / <sub>16</sub>	5 <sup>7</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>16</sub>
1	1 <sup>1</sup> / <sub>4</sub>	1F-2R	1 <sup>29</sup> / <sub>32</sub>	1 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>
1 <sup>1</sup> / <sub>4</sub>	1 <sup>9</sup> / <sub>16</sub>	2F-3R	2 <sup>13</sup> / <sub>32</sub>	2 <sup>9</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>2</sub>	1 <sup>29</sup> / <sub>32</sub>
1 <sup>5</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	3F	2 <sup>13</sup> / <sub>16</sub>	2 <sup>27</sup> / <sub>32</sub>	10	2 <sup>7</sup> / <sub>16</sub>
1 <sup>5</sup> / <sub>8</sub>	1 <sup>7</sup> / <sub>8</sub>	3-1/2IF	3 <sup>1</sup> / <sub>8</sub>	3 <sup>5</sup> / <sub>32</sub>	10	2 <sup>11</sup> / <sub>16</sub>
1 <sup>31</sup> / <sub>32</sub>	2 <sup>5</sup> / <sub>16</sub>	4R	3 <sup>15</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>2</sub>	8 <sup>5</sup> / <sub>16</sub>	2 <sup>15</sup> / <sub>16</sub>
2 <sup>3</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>2</sub>	4F	3 <sup>21</sup> / <sub>32</sub>	3 <sup>1</sup> / <sub>16</sub>	12	3 <sup>1</sup> / <sub>4</sub>
2 <sup>1</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	5R	3 <sup>7</sup> / <sub>8</sub>	3 <sup>29</sup> / <sub>32</sub>	9 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>8</sub>
2 <sup>7</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>4</sub>	5F-6R	4 <sup>23</sup> / <sub>32</sub>	4 <sup>13</sup> / <sub>16</sub>	11 <sup>3</sup> / <sub>4</sub>	4 <sup>9</sup> / <sub>32</sub>
	4 <sup>1</sup> / <sub>8</sub>	6F	5 <sup>11</sup> / <sub>16</sub>	5 <sup>23</sup> / <sub>32</sub>	14 <sup>5</sup> / <sub>8</sub>	5 <sup>3</sup> / <sub>16</sub>

\* If this diameter is the same or smaller than standard tool joint ID disregard it. Catalog FV-04-05



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