

# Drill Pipe Float Valves



FLAPPER TYPE  
G

PLUNGER TYPE  
F

INTEGRAL BAFFLE PLATE  
FBP

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



**"Maximum Drilling Technology"**

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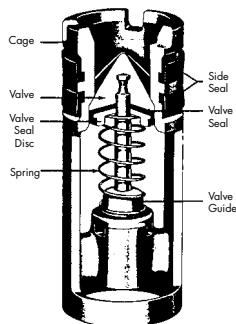
Represented By:

Why Settle for  
Less –  
Insist on the  
Best!

## Drillmax Float Valve Assemblies

### Types Available

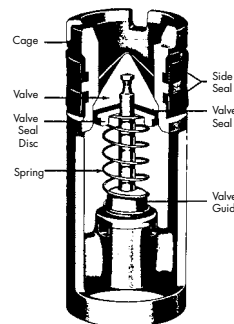
#### MODEL "F" Plunger Type Valve



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

Standard Service - Pg. 3  
Hi-Temp/H2S - Pg 6

#### MODEL "FA" Ported Plunger Type Valve



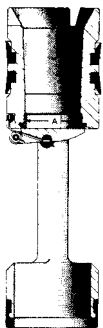
The **Model FA** offers all the standard features of the Model F float valve with the added feature of a ported piston, which allows a fluid path through the center of the valve. This feature allows for an automatic partial filling of the drill pipe during run in.

Standard Service - Pg. 3  
Hi-Temp/H2S - Pg 6

#### MODEL "FBP" Integral Baffle Plate Valve

The **Model FBP** also offers all the standard features of the Model F float valve with the added feature of an integral baffle plate at the top of the float valve which is both heavy duty and shatterproof. For operations where a baffle plate is always used for instrumentation or fluid control, the integral baffle plate configuration offers an economical option. The Model FBP is available in 3 sizes; 3<sup>1</sup>/<sub>2</sub> IF, 4R and 5F-6R.

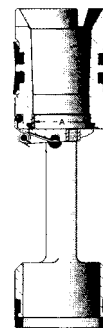
#### MODEL "G" Full Flow Flapper Type Valve



The **Model G** flapper type valve features an investment cast flapper that is quick opening, allowing for full flow through the valve. The Model G is designed for highly abrasive drilling fluids.

Standard Service - Pg. 4  
Hi-Temp/H2S - Pg 6

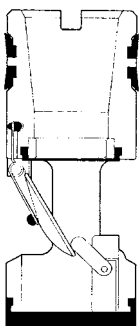
#### MODEL "GA" Flapper - Full Flow Ported with Carbide Orifice



The **Model GA** is identical to the Model G except for a carbide orifice that makes the flapper ported. The Model GA flapper allows for differential pressure readings at the surface.

Standard Service - Pg. 4  
Hi-Temp/H2S - Pg 6

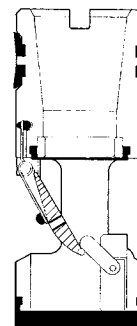
#### MODEL "GC" Flapper - Full Flow Automatic Fill



The **Model GC** is identical to the Model G but adds an automatic fill feature when going in the hole. The Model GC helps prevent pressure surges that could cause formation break-down.

Standard Service - Pg. 5

#### MODEL "GCA" Full Flow Flapper with Carbide Orifice Valve



The **Model GCA** is identical to the Model GA but adds the automatic fill feature.

Standard Service - Pg. 5

# DRILLMAX Drill Pipe Float Valves

## Standard Service

MODEL "F" Plunger Type Valve								
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> = BAKER®	<b>1310200</b> 480131200	<b>1.5</b>	<b>0120200</b> 016012200	<b>.5</b>	<b>9290800</b> 015929800	<b>1.0</b>	<b>MODEL "F" MODEL "FA" METAL KIT (3 re-dressings)</b>  3 Ea. - Valve Springs  1 Ea. - Valve Guide  1 Ea. - Valve Seal Disc.	
<b>1F</b> = BAKER®	<b>1310422</b> 480131422	<b>1.5</b>	<b>0120300</b> 016012300	<b>.7</b>	<b>0110300</b> 016011300	<b>2.0</b>		
<b>2R</b> = BAKER®	<b>1320432</b> 480132432	<b>2.5</b>	<b>0120400</b> 016012400	<b>.8</b>	<b>0110400</b> 016011400	<b>2.0</b>		
<b>2F</b> = BAKER®	<b>1330400</b> 480133400	<b>5.0</b>	<b>0120500</b> 016012500	<b>1.0</b>	<b>0110500</b> 016011500	<b>2.0</b>		
<b>3<sup>1/2</sup></b> = BAKER®	<b>1330600</b> 480133600	<b>6.0</b>	<b>0120600</b> 016012600	<b>1.0</b>	<b>0110500</b> 016011500	<b>2.0</b>		
<b>4R</b> = BAKER®	<b>1340200</b> 480134200	<b>7.0</b>	<b>0120700</b> 016012700	<b>1.0</b>	<b>0110700</b> 016011700	<b>2.0</b>		
<b>4F</b> = BAKER®	<b>1340400</b> 480134400	<b>10.0</b>	<b>0120800</b> 016012800	<b>1.0</b>	<b>0110800</b> 016011800	<b>3.0</b>		
<b>5R</b> = BAKER®	<b>1350200</b> 480135200	<b>9.5</b>	<b>0120900</b> 016012900	<b>1.0</b>	<b>0110900</b> 016011900	<b>4.0</b>		
<b>5F</b> = BAKER®	<b>1350462</b> 480135462	<b>19.0</b>	<b>0130000</b> 016013000	<b>1.1</b>	<b>0120000</b> 016012000	<b>5.0</b>		
<b>6R</b> = BAKER®								
MODEL "FA" Ported Plunger Type Valve								
<b>1R</b> = BAKER®	<b>1210200</b> 480121200	<b>1.5</b>	<b>0120200</b> 016012200	<b>.5</b>	<b>9290805</b> 015929805	<b>1.0</b>		<b>RUBBER KIT (4 re-dressings)</b>  8 Ea. - Side Seals  2 Ea. - Valve Seals
<b>1F</b> = BAKER®	<b>1210422</b> 480121422	<b>1.5</b>	<b>0120300</b> 016012300	<b>.7</b>	<b>0110305</b> 016011305	<b>2.0</b>		
<b>2R</b> = BAKER®	<b>1220432</b> 480122432	<b>2.5</b>	<b>0120400</b> 016012400	<b>.8</b>	<b>0110405</b> 016011405	<b>2.0</b>		
<b>2F</b> = BAKER®	<b>1230400</b> 480123400	<b>5.0</b>	<b>0120500</b> 016012500	<b>1.0</b>	<b>0110505</b> 016011505	<b>2.0</b>		
<b>3<sup>1/2</sup></b> = BAKER®	<b>1230600</b> 480123600	<b>6.0</b>	<b>0120600</b> 016012600	<b>1.0</b>	<b>0110505</b> 016011505	<b>2.0</b>		
<b>4R</b> = BAKER®	<b>1240200</b> 480124200	<b>7.0</b>	<b>0120700</b> 016012700	<b>1.0</b>	<b>0110705</b> 016011705	<b>2.0</b>		
<b>4F</b> = BAKER®	<b>1240400</b> 480124400	<b>10.0</b>	<b>0120800</b> 016012800	<b>1.0</b>	<b>0110805</b> 016011805	<b>3.0</b>		
<b>5R</b> = BAKER®	<b>1250200</b> 480125200	<b>9.5</b>	<b>0120900</b> 016012900	<b>1.0</b>	<b>0110905</b> 016011905	<b>4.0</b>		
<b>5F</b> = BAKER®	<b>1250462</b> 480125462	<b>19.0</b>	<b>0130000</b> 016013000	<b>1.1</b>	<b>0120005</b> 016012005	<b>5.0</b>		
<b>6R</b> = BAKER®								

## DRILLMAX Drill Pipe Float Valves

### Standard Service

MODEL "G" Full Flow Flapper Type Valve							
SIZE	ASSEMBLY P/N	WTS (lbs)	RUBBER REPAIR KIT - P/N	WTS (lbs)	METAL REPAIR KIT - P/N	WTS (lbs)	REPAIR KITS CONTAIN
<b>1F</b> DRILLMAX <b>2R = BAKER®</b>	<b>1510422</b> 480151422	<b>2.0</b>	<b>9880300</b> 051988300	<b>.5</b>	<b>9880400</b> 051988400	<b>.7</b>	<b>MODEL "G" MODEL "GA" METAL KIT (3 re-dressings)</b> 1 Ea. - Seal Retaining Ring 3 Ea. - Hinge Pins 3 Ea. - Spring Assys. 1 Ea. - Flapper Valve
<b>2F</b> DRILLMAX <b>3R = BAKER®</b>	<b>1520432</b> 480152432	<b>3.5</b>	<b>0130800</b> 016013800	<b>.6</b>	<b>0130200</b> 016013200	<b>.8</b>	
<b>3F</b> DRILLMAX <b>= BAKER®</b>	<b>1530400</b> 480153400	<b>5.0</b>	<b>0130900</b> 016013900	<b>1.0</b>	<b>0130300</b> 016013300	<b>1.0</b>	
<b>3 1/2</b> DRILLMAX <b>IF = BAKER®</b>	<b>1530600</b> 480153600	<b>6.0</b>	<b>9820000</b> 051982000	<b>1.0</b>	<b>0700200</b> 052070200	<b>1.0</b>	
<b>4R</b> DRILLMAX <b>= BAKER®</b>	<b>1540200</b> 480154200	<b>7.0</b>	<b>0140000</b> 016014000	<b>1.5</b>	<b>0130400</b> 016013400	<b>1.1</b>	
<b>4F</b> DRILLMAX <b>= BAKER®</b>	<b>1540400</b> 480154400	<b>8.0</b>	<b>0140100</b> 016014100	<b>1.6</b>	<b>0130500</b> 016013500	<b>1.4</b>	
<b>5R</b> DRILLMAX <b>= BAKER®</b>	<b>1550200</b> 480155200	<b>9.0</b>	<b>0140200</b> 016014200	<b>1.6</b>	<b>0130600</b> 016013600	<b>1.6</b>	
<b>5F</b> DRILLMAX <b>6R = BAKER®</b>	<b>1550462</b> 480155462	<b>18.0</b>	<b>0140300</b> 016014300	<b>2.0</b>	<b>0130700</b> 016013700	<b>1.8</b>	
MODEL "GA" Full Flow Ported Flapper Type-with Carbide Orifice							
<b>1F</b> DRILLMAX <b>2R = BAKER®</b>	<b>1620422</b> 480161422	<b>2.0</b>	<b>9880300</b> 051988300	<b>.5</b>	<b>0700800</b> 052070800	<b>.8</b>	<b>RUBBER KIT (4 re-dressings)</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring
<b>2F</b> DRILLMAX <b>3R = BAKER®</b>	<b>1620432</b> 480162432	<b>3.5</b>	<b>0130800</b> 016013800	<b>.6</b>	<b>1350000</b> 017135000	<b>.8</b>	
<b>3F</b> DRILLMAX <b>= BAKER®</b>	<b>1630400</b> 480163400	<b>5.0</b>	<b>0130900</b> 016013900	<b>1.0</b>	<b>1360700</b> 017136700	<b>1.0</b>	
<b>3 1/2</b> DRILLMAX <b>IF = BAKER®</b>	<b>1630600</b> 480163600	<b>6.0</b>	<b>9820000</b> 051982000	<b>1.0</b>	<b>0750500</b> 052075500	<b>1.0</b>	
<b>4R</b> DRILLMAX <b>= BAKER®</b>	<b>1640200</b> 480164200	<b>7.0</b>	<b>0140000</b> 016014000	<b>1.5</b>	<b>1160000</b> 017116000	<b>1.1</b>	
<b>4F</b> DRILLMAX <b>= BAKER®</b>	<b>1640400</b> 480164400	<b>8.0</b>	<b>0140100</b> 016014100	<b>1.6</b>	<b>1360800</b> 017136800	<b>1.4</b>	
<b>5R</b> DRILLMAX <b>= BAKER®</b>	<b>1650200</b> 480165200	<b>9.0</b>	<b>0140200</b> 016014200	<b>1.6</b>	<b>1360900</b> 017136900	<b>1.6</b>	
<b>5F</b> DRILLMAX <b>6R = BAKER®</b>	<b>1650462</b> 480165462	<b>18.0</b>	<b>0140300</b> 016014300	<b>2.0</b>	<b>1360200</b> 017134200	<b>1.8</b>	

## 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	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>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 Assys. 1 Ea. - Flapper Valve <b>(3 re-dressings)</b>  <b>RUBBER KIT</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring <b>(4 re-dressings)</b>
<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>6.0</b>	<b>9820000</b> 051982000	<b>1.0</b>	<b>0700200</b> 052070200	<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>	
<b>4F</b> DRILLMAX <b>= 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>	
<b>5R</b> DRILLMAX <b>= 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>	
<b>5F</b> DRILLMAX <b>6R = 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>	

MODEL "GCA" Full Flow Flapper 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 Assys. 1 Ea. - Flapper Valve <b>(3 re-dressings)</b>  <b>RUBBER KIT</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring <b>(4 re-dressings)</b>
<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>6.0</b>	<b>9820000</b> 051982000	<b>1.0</b>	<b>0750500</b> 052075500	<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>	
<b>4F</b> DRILLMAX <b>= 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>	
<b>5R</b> DRILLMAX <b>= 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>	
<b>5F</b> DRILLMAX <b>6R = 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 Drill Pipe Float Valves

Hi-Temp Service / H<sub>2</sub>S

MODEL "F" - Hi-Temp/H <sub>2</sub> S 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 (3 re-dressings)</b> 3 Ea. - Valve Springs 1 Ea. - Valve Guide 1 Ea. - Valve Seal Disc
<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>10.0</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>	
<b>MODEL "G" - Hi-Temp/H<sub>2</sub>S Seals</b>							
<b>1F</b> DRILLMAX <b>2R</b> = BAKER®	<b>3110422</b> 480311422	<b>1.5</b>	<b>0820601</b> 051997200	<b>.5</b>	<b>0850801</b> 051997300	<b>.7</b>	<b>MODEL "G" MODEL "GA" METAL KIT</b> 1 Ea. - Seal Retaining Ring 3 Ea. - Hinge Pins 3 Ea. - Spring Assys. 1 Ea. - Flapper Valve <b>(3 re-dressings)</b>
<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> 480313600	<b>6.0</b>	<b>0820851</b> 071082901	<b>1.0</b>	<b>0870001</b> 052125101	<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>	
<b>MODEL "GA" Hi-Temp/H<sub>2</sub>S Seals</b>							
<b>1F</b> DRILLMAX <b>2R</b> = BAKER®	<b>4120422</b> 480261422	<b>1.5</b>	<b>0820601</b> 051997200	<b>.5</b>	<b>1850801</b> 052070802	<b>.7</b>	<b>RUBBER KIT</b> 8 Ea. - Side Seals 2 Ea. - Valve Seals 1 Ea. - Shock Absorber 1 Ea. - Seal Retaining Ring <b>(4 re-dressings)</b>
<b>2F</b> DRILLMAX <b>3R</b> = BAKER®	<b>4120432</b> 480262432	<b>3.5</b>	<b>0820701</b> 071082701	<b>.6</b>	<b>1850901</b> 017135001	<b>.8</b>	
<b>3F</b> DRILLMAX = BAKER®	<b>4130400</b> 480263400	<b>5.0</b>	<b>0820801</b> 071082801	<b>1.0</b>	<b>1860001</b> 017136701	<b>1.0</b>	
<b>3 1/2</b> DRILLMAX <b>IF</b> = BAKER®	<b>4130500</b> 480263600	<b>6.0</b>	<b>0820851</b> 052125001	<b>1.0</b>	<b>1870001</b> 052075502	<b>1.0</b>	
<b>4R</b> DRILLMAX = BAKER®	<b>4140200</b> 480264200	<b>7.0</b>	<b>0820901</b> 071082901	<b>1.5</b>	<b>1860101</b> 017116002	<b>1.1</b>	
<b>4F</b> DRILLMAX = BAKER®	<b>4140400</b> 480264400	<b>8.0</b>	<b>0830001</b> 071083001	<b>1.6</b>	<b>1860201</b> 017136801	<b>1.4</b>	
<b>5R</b> DRILLMAX = BAKER®	<b>4150200</b> 480265200	<b>9.0</b>	<b>0830101</b> 071083101	<b>1.6</b>	<b>1860301</b> 017136901	<b>1.6</b>	
<b>5F</b> DRILLMAX <b>6R</b> = BAKER®	<b>4150462</b> 480265462	<b>18.0</b>	<b>0830201</b> 071083201	<b>2.0</b>	<b>1860401</b> 017134201	<b>1.8</b>	

## DRILLMAX Baffle Plates

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

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		3 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>	4			5	5 <sup>1</sup> / <sub>2</sub> -5 <sup>9</sup> / <sub>16</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>	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	
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>		
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>	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 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

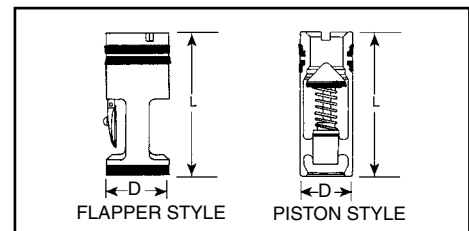
SIZE	O.D.	I.D.	LENGTH	VALVE
2 <sup>3</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>8</sub> "	1"	18"	1R
2 <sup>7</sup> / <sub>8</sub> "	3 <sup>3</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>4</sub> "	20"	1F-2R
3 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>2</sub>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

API Full Hole - Box or Pin

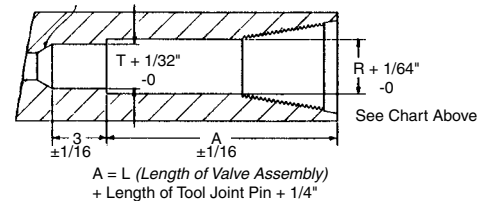
SIZE	O.D.	I.D.	LENGTH	VALVE
2 <sup>7</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>8</sub> "	20"	2F-3R
3 <sup>1</sup> / <sub>2</sub> "	4 <sup>5</sup> / <sub>8</sub> "	2 <sup>7</sup> / <sub>16</sub> "	24"	3F
4"	5 <sup>1</sup> / <sub>4</sub> "	2 <sup>13</sup> / <sub>16</sub>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



30° Chamfer



## 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	2 <sup>1</sup> / <sub>8</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	2 <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>7</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>11</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>25</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.



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