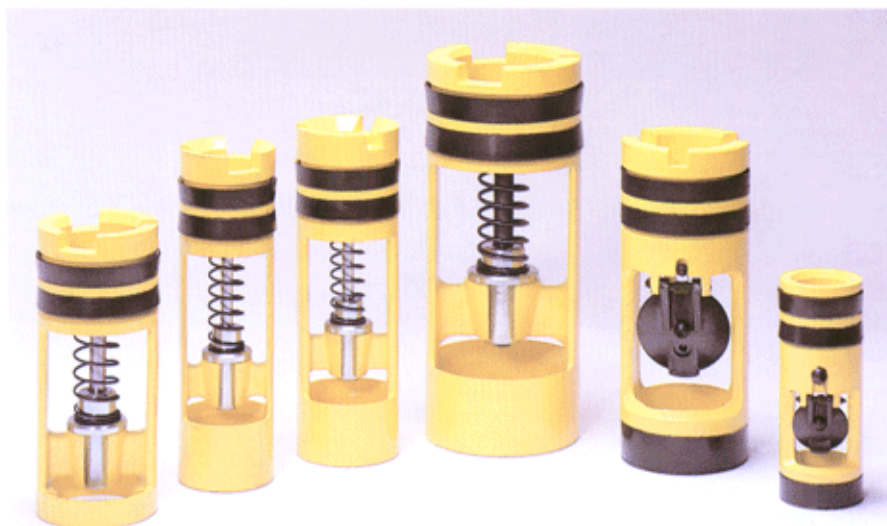




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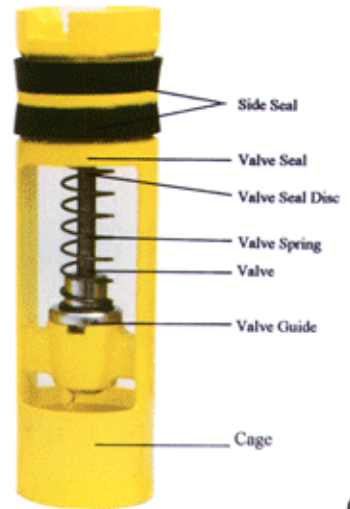
**★ *Drill Pipe Float Valves* ★**

# MODEL 'F' - PLUNGER TYPE

O'Drill•MCM Float Valves & parts are 100% interchangeable with Baker® and Crestex®

## Model 'F'

SIZE	Mfg	COMPLETE ASSEMBLY P/N	METAL REPAIR KIT P/N	RUBBER REPAIR KIT P/N
1R	O'DRILL BAKER®	M-131-200 480131200	M-929-800 015929800	M-012-200 016012200
1F	O'DRILL BAKER®	M-131-422 480131422	M-011-300 016011300	M-012-300 016012300
2R	O'DRILL BAKER®	M-132-432 480132432	M-011-400 016011400	M-012-400 016012400
2F	O'DRILL BAKER®	M-132-432 480132432	M-011-400 016011400	M-012-400 016012400
3R	O'DRILL BAKER®	M-133-400 480133400	M-011-500 016011500	M-012-500 016012500
3F	O'DRILL BAKER®	M-133-400 480133400	M-011-500 016011500	M-012-500 016012500
31/2 IF	O'DRILL BAKER®	M-133-600 480133600	M-011-500 016011500	M-012-600 016012600
4R	O'DRILL BAKER®	M-134-200 480134200	M-011-700 016011700	M-012-700 016012700
4F	O'DRILL BAKER®	M-134-400 480134400	M-011-800 016011800	M-012-800 016012800
5R	O'DRILL BAKER®	M-135-200 480135200	M-011-900 016011900	M-012-900 016012900
5F	O'DRILL BAKER®	M-135-462 480135462	M-012-000 016012000	M-013-000 016013000
6R	O'DRILL BAKER®	M-135-462 480135462	M-012-000 016012000	M-013-000 016013000
6F	O'DRILL BAKER®	M-136-400 480136400	M-012-100 016012100	M-013-100 016013100



Piston Type

## Replacement Parts List for Model 'F'

Description	1R	1F	2R	2F	3R	3F	31/2 IF	4R	4F	5R	5F	6R	6F
1 CAGE	M-30574	M-30568	M-30538	M-30556	M-38527	M-30526	M-30532	M-30544	M-30550	M-30554	M-30550	M-30562	
2 VALVE	M-30575	M-30569	M-30539	M-30557	M-30557	M-30527	M-30533	M-30545	M-30551	M-30551	M-30563		
3 VALVE SEAL	M-30576	M-30570	M-30540	M-30558	M-30558	M-30528	M-30534	M-30546	M-30552	M-30552	M-30564		
4 VALVE SEAL DISC	M-30577	M-30571	M-30541	M-30559	M-30559	M-30529	M-30535	M-30547	M-30553	M-30553	M-30565		
5 VALVE GUIDE	M-30572	M-30572	M-30542	M-30560	M-30560	M-30530	M-30536	M-30548	M-30554	M-30554	M-30566		
6 VALVE SPRING	M-05560	M-05626	M-01751	M-02013	M-02013	M-29610	M-27600	M-30883	M-30884	M-30884	M-07369		
7 SIDE SEAL	M-05561	M-05625	M-03939	M-02015	M-03986	M-03940	M-01908	M-03941	M-01958	M-01958	M-01990		

### ◆ REPAIR KITS ◆

MODEL	Metal Repair Kit		Rubber Repair Kit	
<b>F</b>	3 valve springs, 1 valve,	1 valve guide, 1 valve seal disc	8 side seals,	2 valve seals

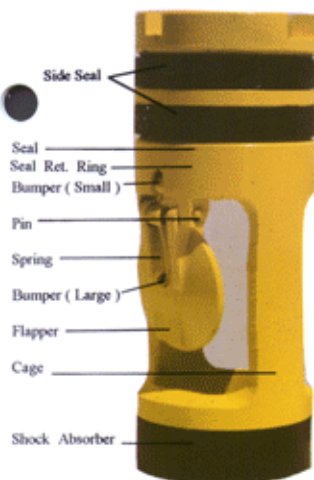
# MODEL 'G' - Full Flow FLAPPER TYPE

O'Drill•MCM Float Valves & parts are 100% interchangeable with Baker® and Crestex®

## Model 'G'

## Model 'GA'

SIZE	Mfg	Complete Assembly PN	Metal Repair-Kit PN	Rubber Repair Kit PN	Complete Assembly PN	Metal Repair-Kit PN	Rubber Repair Kit PN
2F	O'DRILL	M-152-432	M-013-200	M-013-800	M-162-432	M-135-000	M-013-800
3R	BAKER®	480152432	016013200	016013800	480162432	017135000	016013800
3F	O'DRILL	M-153-400	M-013-300	M-013-900	M-163-400	M-136-700	M-013-900
BAKER®	480153400	016013300	016013900	480163400	017136700	016013900	
3 1/2	O'DRILL	M-153-600	M-013-300	M-982-000	M-163-600	M-136-700	M-982-000
IF	BAKER®	480153600	016013300	051982000	480163600	017136700	051982000
4R	O'DRILL	M-154-200	M-013-400	M-014-000	M-164-200	M-116-000	M-014-000
BAKER®	480154200	016013400	016014000	480164200	017116000	016014000	
4F	O'DRILL	M-154-400	M-013-500	M-014-100	M-164-400	M-136-800	M-014-100
BAKER®	480154400	016013500	016014100	480164400	017136800	016014100	
5F	O'DRILL	M-155-200	M-013-600	M-014-200	M-165-200	M-136-900	M-014-200
BAKER®	480155200	016013600	016014200	480165200	017136900	016014200	
5F	O'DRILL	M-155-462	M-013-700	M-014-300	M-165-462	M-134-200	M-014-300
6R	BAKER®	480155462	016013700	016014300	480165462	017134200	016014300



FlapperType

## Replacement Parts List For Model 'G'

	Description	2F 3R	3F	3 1/2 IF	4R	4F	5R	5F 6R
1	CAGE	M-44231	M-46278	M-19658	M-44195	M-46272	M-47718	M-44238
2	SIDE SEAL	M-03939	M-02015	M-03986	M-03940	M-01908	M-03941	M-01958
3	SPRING	M-44235	M-46231	M-46231	M-44210	M-46226	M-46226	M-44240
4	SEAL RETAINING RING	M-44233	M-46287	M-46287	M-43587	M-46277	M-47722	M-44237
5	SEAL	M-43574	M-46243	M-46243	M-41303	M-45340	M-47721	M-43597
6	FLAPPER-VALVE	M-27065	M-27054	M-27054	M-27064	M-27052	M-27053	M-27066
7	BUMPER (LARGE)	M-44243	M-44243	M-44243	M-44213	M-44213	M-44213	M-44213
8	PIN	M-43575	M-43575	M-43575	M-46397	M-46397	M-47723	M-43595
9	SHOCK ABSORBER	M-43573	M-46242	M-19659	M-42709	M-45339	M-47720	M-43596
10	BUMPER (SMALL)	M-44214	M-44214	M-44214	M-44214	M-44214	M-44214	M-44214
11	SPRING ASSY.	M-47763	M-47764	M-47764	M-47760	M-47761	M-47761	M-47762

### ◆ REPAIR KITS ◆

MODEL	Metal Repair Kit		Rubber Repair Kit	
<b>G</b>	1 seal retaining ring,	3 hinge pins	8 side seals,	2 valve seals,
<b>GA</b>	3 spring assembly,	1 flapper valve	1 shock absorber,	1 seal retaining ring

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# GEOTHERMAL/HIGH TEMPERATURE SERVICE

## MODEL 'F'

### PLUNGER TYPE WITH 'VITON' SEALS

SIZE	COMPLETE ASSEMBLY P/N	METAL REPAIR KIT P/N	RUBBER REPAIR KIT P/N
1R	M-301-200	M-084-901	M-081-701
1F 2R	M-301-422	M-085-001	M-081-801
2F 3R	M-302-432	M-085-101	M-081-901
3F	M-303-400	M-085-201	M-082-001
3 1/2 IF	M-303-600	M-085-301	M-082-101
4R	M-304-200	M-085-401	M-082-201
4F	M-304-400	M-085-501	M-082-301
5R	M-305-200	M-085-601	M-082-401
5F 6R	M-305-462	M-085-701	M-082-501
6F	M-306-400	M-085-801	M-082-601

## MODEL 'G'

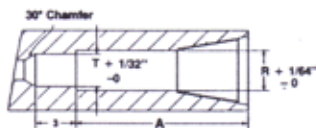
### FULL FLOW FLAPPER TYPE WITH 'VITON' SEALS

SIZE	COMPLETE ASSEMBLY P/N	METAL REPAIR KIT P/N	RUBBER REPAIR KIT P/N
2F 3R	M-312-432	M-085-901	M-082-701
3F	M-313-400	M-086-001	M-082-801
4R	M-314-200	M-086-101	M-082-901
4F	M-314-400	M-086-201	M-083-001
5R	M-315-200	M-086-301	M-083-101
5F 6R	M-315-462	M-086-401	M-083-201

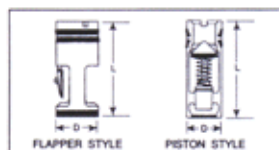
### Dimensional Data

Size Valve	D Diameter of Valve	R (D Plus 1/32) Diameter of Recess for Valve	L Length of Valve	T <sup>1</sup> 10/32 Spider Diameter of Recess for
1R	1 1/8"	1 1/8"	5 1/2"	1 1/8"
1F-2R	1 1/8"	1 1/8"	6 1/2"	1 1/8"
2F-3R	2 1/8"	2 1/8"	6 1/2"	1 1/8"
3F	2 1/8"	2 1/8"	10	2 1/8"
3 1/2 IF	3"	3 1/8"	10	2 1/8"
4R	3 1/8"	3 1/8"	8 1/2"	2 1/8"
4F	3 1/8"	3 1/8"	12	3 1/8"
5R	3 1/8"	3 1/8"	9 1/2"	3"
5F-6R	4 1/8"	4 1/8"	11 1/2"	4 1/8"
6F	5 1/8"	5 1/8"	14"	5 1/8"

<sup>1</sup>If this diameter is the same or smaller than standard tool joint ID, disregard it.



A = L (Length of Valve Assembly)  
+ Length of Tool Joint Pin = 1/4"



### Drill Pipe Float Valve Subs

API Regular Threads - Box or Pin

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

API Full Hole - Box or Pin

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

API IF Internal Flush - Box or Pin

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

## Float Valve Installation

O'Drill•MCM drill pipe float valves are easy to install. Simply lubricate the side seal rubbers and slide the float valve into the cavity in the float body or drilled out drill collar.

**CAUTION:** Care must be taken in positioning the float valve in the drilling string. Fill drill pipe regularly when going in the hole. Failure to do so can cause hydro-static pressure which can cause damage to the drill pipe and/or float valve.

## Recutting drill pipe float body or Boring out drill collars

Models 'F' and 'G' are identical in outside dimensions and use the same float body or bored out drill collar. Float subs are available in 14 to 24 inches, depending on connection size. Designed for two recuts, one on each end or two on one end. Care should be taken to maintain dimension 'A' on all recuts.

# O'DRILL • MCM, INC.

*A Pump & Valve Mfg. Company*

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