

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”

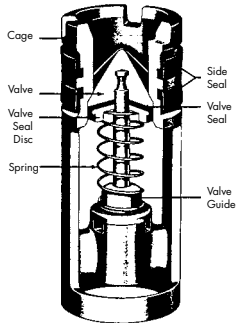
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Represented By:

Drillmax Float Valve Assemblies

Types Available

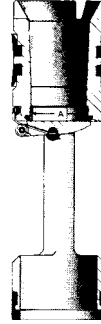
MODEL "F"
Plunger Type



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

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.

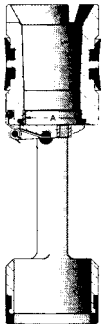
MODEL "G"
Flapper - Full Flow



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

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

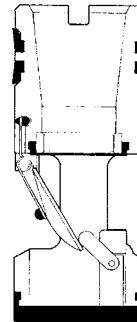
MODEL "GA"
Flapper - Full Flow
with Carbide Orifice



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

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

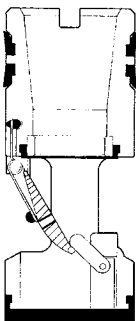
MODEL "GC"
Flapper - Full Flow
Automatic Fill



Standard Service - Pg. 4

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

MODEL "GCA"
Flapper - Full Flow
with Carbide Orifice



Standard Service - Pg. 4

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

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

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
2F DRILLMAX 3R = BAKER®	1920432 480192432	3.5	0130800 016013800	.6	0130200 016013200	.8	MODEL "GC" METAL KIT 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. RUBBER KIT 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.
3F DRILLMAX = BAKER®	1930400 480193400	5.0	0130900 016013900	1.0	0130300 016013300	1.0	
3 1/2 DRILLMAX IF = BAKER®	1930600 480193600	5.5	9820000 051982000	1.0	0130300 016013300	1.0	
4R DRILLMAX = BAKER®	1940200 480194200	7.0	0140000 016014000	1.5	0130400 016013400	1.1	
DRILLMAX 4F = BAKER®	1940400 480194400	8.0	0140100 016014100	1.6	0130500 016013500	1.4	
DRILLMAX 5R = BAKER®	1950200 480195200	9.0	0140200 016014200	1.6	0130600 016013600	1.6	
DRILLMAX 5F = BAKER®	1950462 480195462	18.0	0140300 016014300	2.0	0130700 016013700	1.8	
DRILLMAX 6R = BAKER®							

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
2F DRILLMAX 3R = BAKER®	1920433 480192433	3.5	0130800 016013800	.6	1350000 017135000	.8	MODEL "GCA" METAL KIT 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. RUBBER KIT 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.
3F DRILLMAX = BAKER®	1930401 480193401	5.0	0130900 016013900	1.0	1360700 017136700	1.0	
3 1/2 DRILLMAX IF = BAKER®	1930601 480193601	5.5	9820000 051982000	1.0	1360700 017136700	1.0	
4R DRILLMAX = BAKER®	1940201 480194201	7.0	0140000 016014000	1.5	1160000 017116000	1.1	
DRILLMAX 4F = BAKER®	1940401 480194401	8.0	0140100 016014100	1.6	1360800 017136800	1.4	
DRILLMAX 5R = BAKER®	1950201 480195201	9.0	0140200 016014200	1.6	1360900 017136900	1.6	
DRILLMAX 5F = BAKER®	1950463 480195463	18.0	0140300 016014300	2.0	1360200 017134200	1.8	
DRILLMAX 6R = BAKER®							

DRILLMAX Drill Pipe Float Valves

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

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

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

Bit and Shank Sizes

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

Float Valve Installation

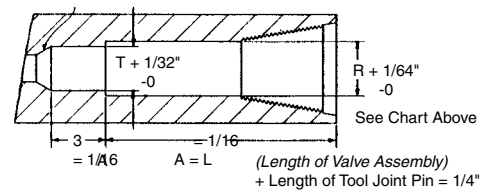
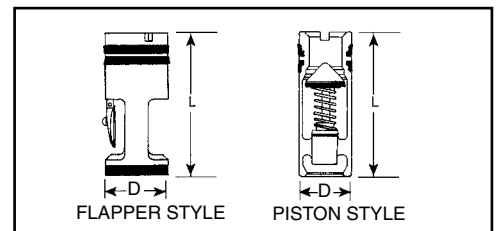
Drillmax Drill Pipe Float Valves are easy to install. Simply lubricate the side seal rubbers and slide the float valve into the cavity of the recess of the float sub or drilled out drill collar.

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 ³ / ₈ "	3 ¹ / ₈ "	1"	18"	1R
2 ⁷ / ₈ "	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 ⁵ / ₈ "	7 ³ / ₄ "	3 ¹ / ₂ "	30"	5F-6R
7 ⁵ / ₈ "	8 ⁷ / ₈ "	4"	30"	5F-6R
8 ⁵ / ₈ "	10"	4 ³ / ₄ "	30"	6F



API Full Hole - Box or Pin

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

API IF Internal Flush - Box or Pin

SIZE	O.D.	I.D.	LENGTH	VALVE
2 ³ / ₈ "	4 ¹ / ₄ "	1 ³ / ₄ "	18"	1F-2R
2 ⁷ / ₈ "	4 ¹ / ₈ "	2 ¹ / ₈ "	20"	2F-3R
3 ¹ / ₂ "	4 ³ / ₄ "	2 ¹¹ / ₁₆ "	24"	3 ¹ / ₂ IF
4"	5 ³ / ₄ "	3 ¹ / ₄ "	28"	4F
4 ¹ / ₂ "	6 ¹ / ₈ "	3 ³ / ₄ "	28"	5R
5 ¹ / ₂ "	7 ³ / ₈ "	4 ¹³ / ₁₆ "	30"	5F-6R
6 ³ / ₈ "	8 ³ / ₄ "	5 ²⁹ / ₃₂ "	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 ²¹ / ₃₂	1 ¹¹ / ₁₆	5 ⁷ / ₈	1 ⁵ / ₁₆
1	1 ¹ / ₄	1F-2R	1 ²⁹ / ₃₂	1 ¹⁵ / ₁₆	6 ¹ / ₄	1 ¹ / ₂
1 ¹ / ₄	1 ⁹ / ₁₆	2F-3R	2 ¹³ / ₃₂	2 ⁹ / ₁₆	6 ¹ / ₂	1 ²⁹ / ₃₂
1 ⁵ / ₈	1 ⁷ / ₈	3F	2 ¹³ / ₁₆	2 ²⁷ / ₃₂	10	2 ⁷ / ₁₆
1 ⁵ / ₈	1 ⁷ / ₈	3-1/2IF	3 ¹ / ₈	3 ⁵ / ₃₂	10	2 ¹¹ / ₁₆
1 ³¹ / ₃₂	2 ⁵ / ₁₆	4R	3 ¹⁵ / ₃₂	3 ¹ / ₂	8 ⁵ / ₁₆	2 ¹⁵ / ₁₆
2 ³ / ₁₆	2 ¹ / ₂	4F	3 ²¹ / ₃₂	3 ¹ / ₁₆	12	3 ¹ / ₄
2 ¹ / ₄	2 ³ / ₄	5R	3 ⁷ / ₈	3 ²⁹ / ₃₂	9 ³ / ₄	3 ³ / ₈
2 ⁷ / ₈	3 ¹ / ₄	5F-6R	4 ²³ / ₃₂	4 ¹³ / ₁₆	11 ³ / ₄	4 ⁹ / ₃₂
	4 ¹ / ₁₈	6F	5 ¹¹ / ₁₆	5 ²³ / ₃₂	14 ⁵ / ₈	5 ³ / ₁₆

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



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