

# DRILL PIPE FLOAT VALVES

BHDE Drill Pipe Float Valves provide maximum drill string protection from internal blowouts and backflow of cuttings that can clog the drill bit. Models "F" & "G" for most drilling applications are available.

SIZE	BHDE PART NO.	RUBBER KIT PART NO.	METAL KIT PART NO.	PULLER PART NO.
<b>MODEL "F" STANDARD BUNA SEALS</b>				
1R	480131R	F60122	F59298	480911R
1F-2R	480131F2R	F60123	F60113	480911R
2F-3R	480132F3R	F60124	F60114	480912F3R
3F	480133F	F60125	F60115	480913F
3 <sup>1</sup> /2IF	4801335IF	F60126	F60115	480913F
4R	480134R	F60127	F60117	480914R
4F	480134F	F60128	F60118	480914F
5R	480135R	F60129	F60119	480915R
5F-6R	480135F6R	F60130	F60120	480915F6R
6F	480136F	F60131	F60121	480916F
<b>MODEL "G" STANDARD BUNA SEALS</b>				
1F-2R	480151F2R	G19983	G19884	480901F2R
2F-3R	480152F3R	G60138	G60132	480902F3R
3F	480153F	G60139	G60133	480903F
3 <sup>1</sup> /2IF	4801535IF	G19820	G20702	480903F
4R	480154R	G60140	G60134	480904R
4F	480154F	G60141	G60135	480904F
5R	480155R	G60142	G60136	480905F
5F-6R	480155F6R	G60143	G60137	480905F6R
<b>MODEL "GA" STANDARD BUNA SEALS</b>				
1F-2R	480161F2R	G19983	GA20708	480901F2R
2F-3R	480162F3R	G60138	GA71350	480902F3R
3F	480163F	G60139	GA71367	480903F
3 <sup>1</sup> /2IF	4801635IF	G19820	GA20755	480903F
4R	480164R	G60140	GA71160	480904R
4F	480164F	G60141	GA71368	480904F
5R	480165R	G60142	GA71369	480905F
5F-6R	480155F6R	G60143	GA71342	480905F6R

SIZE	BHDE PART NO.	RUBBER KIT PART NO.	METAL KIT PART NO.	PULLER PART NO.
<b>MODEL "F" NACE VITON® SEALS</b>				
1R	480301R	F10817V	F10849V	480911R
1F-2R	480301F2R	F10818V	F10850V	480911R
2F-3R	480302F3R	F10819V	F10851V	480912F3R
3F	480303F	F10820V	F10852V	480913F
3 <sup>1</sup> /2IF	4803035IF	F10821V	F10853V	480913F
4R	480304R	F40822V	F10854V	480914R
4F	480304F	F10823V	F10855V	480914F
5R	480305R	F10824V	F10856V	480915R
5F-6R	480305F6R	F108245V	F10857V	480915F6R
6F	480306F	F10826V	F10858V	480916F
<b>MODEL "G" NACE VITON® SEALS</b>				
1F-2R	480311F2R	G19972V	G19973V	480901F2R
2F-3R	480312F3R	G10827V	G10859V	480902F3R
3F	480313F	G10828V	G10860V	480903F
3 <sup>1</sup> /2IF	4803135IF			480903F
4R	480314R	G10829V	G10861V	480904R
4F	480314F	G10830V	F10862V	480904F
5R	480315R	G10831V	F10863V	480905F
5F-6R	480315F6R	G10832V	G10864V	480905F6R
<b>MODEL "GA" NACE VITON® SEALS</b>				
1F-2R	480261F2R	G19972V	GA20708V	480901F2R
2F-3R	480262F3R	G10827V	GA71350V	480902F3R
3F	480263F	G10828V	GA71367V	480903F
3 <sup>1</sup> /2IF	4802635IF			480903F
4R	480264R	G10829V	GA71160V	480904R
4F	480264F	G10830V	GA71368V	480904F
5R	480265R	G10831V	GA71369V	480905F
5F-6R	480155F6R	G10832V	GA71342V	480905F6R

<b>SEAL &amp; ELASTOMER SELECTIONS</b>		
APPLICATION	ELASTOMER	TEMP. RANGE
Standard Service	70d Buna	-35°F to 250°F
H2S Hi-Temp	Viton®	-15°F to 400°F
H2S	HNBR	to 300°F
Steam	Aflas®	to 500°F



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# FLOAT VALVE & BAFFLE PLATE

## FLOAT VALVE SELECTION – TOOL JOINT X SIZE

TOOL JOINT TYPE	1R	1F-2R	2F-3R	3F	3.5IF	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> "
API Full Hole (FH)		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>9</sup> / <sub>16</sub> "	6 <sup>5</sup> / <sub>8</sub> **
XTRA Hole (XH)			2 <sup>7</sup> / <sub>8</sub> "	3 <sup>1</sup> / <sub>2</sub> "			4 <sup>1</sup> / <sub>2</sub> ***	5"	5 <sup>1</sup> / <sub>2</sub> ", 5 <sup>9</sup> / <sub>16</sub> "	
API Internal Flush (IF)		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> **		
NC Numbered Conn.		NC-26	NC-31		NC-38	NC-40	NC-46	NC-50		

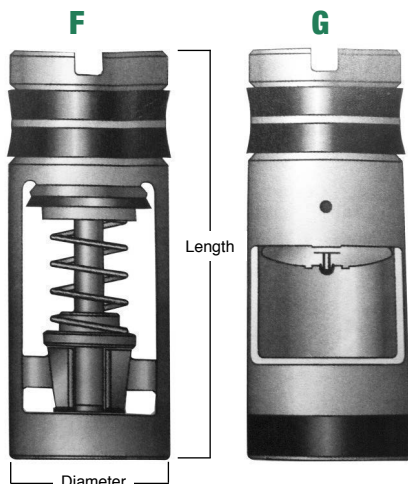
\* Subs have smaller ID than Tool Joint

## BAFFLE SELECTION CHART TOOL JOINT SIZE X FLOAT VALVE SIZE

TOOL JOINT SIZE	PART No.	BAFFLE TYPE	DPFV SIZE	OUTER RING O.D.	INNER RING I.D.	WEIGHT LB.
2 <sup>7</sup> / <sub>8</sub> " API Regular	91701	Spider	1F-2R	1.94"	0.94"	0.5
3 <sup>1</sup> / <sub>2</sub> " API Regular	91702	Ring	2F-3R	2.28"	0.75"	0.4
4 <sup>1</sup> / <sub>2</sub> " API Regular	91703	Ring	4R	3.22"	1.13"	0.8
5 <sup>9</sup> / <sub>16</sub> " API Regular	91704	Ring	5R	3.87"	1.25"	1.3
6 <sup>5</sup> / <sub>8</sub> " API Regular	91705	Ring	5F-6R	4.63"	1.25"	1.5
7 <sup>5</sup> / <sub>8</sub> " API Regular	91706	Ring	5F-6R	5.33"	1.135"	1.7
8 <sup>5</sup> / <sub>8</sub> " API Regular	91707	Ring	6F	6.22"	1.125"	2.2
4 <sup>1</sup> / <sub>2</sub> " API Full Hole	91712	Ring	4F	3.25"	1.25"	0.9
5 <sup>9</sup> / <sub>16</sub> " API Full Hole	91713	Ring	5F-6R	4.63"	1.25"	1.5
6 <sup>5</sup> / <sub>8</sub> " API Full Hole	91714	Ring	6F	5.38"	1.25"	2.2
3 <sup>1</sup> / <sub>2</sub> " API Full Hole	91721	Spider	3F	2.63"	1.00"	0.6
4 <sup>1</sup> / <sub>2</sub> " API Full Hole	91722	Spider	4F	3.44"	1.00"	0.7
4 <sup>1</sup> / <sub>2</sub> " API Regular	91722	Spider	4R	3.44"	1.00"	0.7
5 <sup>9</sup> / <sub>16</sub> " API Regular	91722	Spider	5R	3.44"	1.00"	0.7
5 <sup>9</sup> / <sub>16</sub> " API Full Hole	91723	Spider	5F-6R	4.68"	1.29"	1.0
6 <sup>5</sup> / <sub>8</sub> " API Regular	91723	Spider	5F-6R	4.68"	1.29"	1.0
6 <sup>5</sup> / <sub>8</sub> " API Full Hole	91724	Spider	6F	6.56"	1.25"	1.0
3 <sup>1</sup> / <sub>2</sub> " API Internal Flush	91725	Spider	3 <sup>1</sup> / <sub>2</sub> IF	3.06"	1.00"	0.6
2 <sup>7</sup> / <sub>8</sub> " API Internal Flush	91740	Ring	2F-3R	2.34"	1.00"	0.7
3 <sup>1</sup> / <sub>2</sub> " API Internal Flush	91741	Ring	3 <sup>1</sup> / <sub>2</sub> IF	3.06"	1.13"	0.7
4 <sup>1</sup> / <sub>2</sub> " API Internal Flush	91742	Ring	5R	4.22"	1.25"	1.3
2 <sup>7</sup> / <sub>8</sub> " API Internal Flush	91743	Spider	2F-3R	2.40"	1.00"	0.7
4" API Internal Flush	91744	Ring	4F	3.88"	1.25"	1.0

## BIT SUB SIZE

BIT & SHANK SIZE	
BIT SIZE	API PIN
3 <sup>1</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>8</sub> "
3 <sup>3</sup> / <sub>8</sub> "	2 <sup>3</sup> / <sub>8</sub> "
4 <sup>1</sup> / <sub>2</sub> "	2 <sup>3</sup> / <sub>8</sub> "
4 <sup>3</sup> / <sub>4</sub> "	2 <sup>7</sup> / <sub>8</sub> "
5 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "
6"	3 <sup>1</sup> / <sub>2</sub> "
6 <sup>1</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>2</sub> "
6 <sup>1</sup> / <sub>2</sub> "	3 <sup>1</sup> / <sub>2</sub> "
6 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>2</sub> "
7 <sup>7</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>2</sub> "
8 <sup>1</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> "
8 <sup>1</sup> / <sub>2</sub> "	4 <sup>1</sup> / <sub>2</sub> "
8 <sup>3</sup> / <sub>4</sub> "	4 <sup>1</sup> / <sub>2</sub> "
9 <sup>1</sup> / <sub>2</sub> "	6 <sup>5</sup> / <sub>8</sub> "
9 <sup>3</sup> / <sub>4</sub> "	6 <sup>5</sup> / <sub>8</sub> "
10 <sup>1</sup> / <sub>2</sub> "	6 <sup>5</sup> / <sub>8</sub> "
11"	6 <sup>5</sup> / <sub>8</sub> "
12 <sup>1</sup> / <sub>4</sub> "	6 <sup>5</sup> / <sub>8</sub> "
13 <sup>1</sup> / <sub>2</sub> "	6 <sup>5</sup> / <sub>8</sub> "
20"	7 <sup>5</sup> / <sub>8</sub> "
24"	7 <sup>5</sup> / <sub>8</sub> "
25"	7 <sup>5</sup> / <sub>8</sub> "



## MODELS "F" & "G" DIMENSIONS

SIZE	DIAMETER	LENGTH	I.D. OF VALVE	
			MODEL F	MODEL G
1R	1 <sup>21</sup> / <sub>32</sub> "	5 <sup>7</sup> / <sub>8</sub> "	1"	N/A
1F-2R	1 <sup>29</sup> / <sub>32</sub> "	6 <sup>1</sup> / <sub>4</sub> "	1 <sup>1</sup> / <sub>4</sub> "	1"
2F-3R	2 <sup>13</sup> / <sub>32</sub> "	6 <sup>1</sup> / <sub>2</sub> "	1 <sup>9</sup> / <sub>16</sub> "	1 <sup>1</sup> / <sub>4</sub> "
3F	2 <sup>13</sup> / <sub>16</sub> "	10"	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>8</sub> "
3 <sup>1</sup> / <sub>2</sub> IF	3 <sup>1</sup> / <sub>8</sub> "	10"	1 <sup>7</sup> / <sub>8</sub> "	1 <sup>5</sup> / <sub>8</sub> "
4R	3 <sup>15</sup> / <sub>32</sub> "	8 <sup>5</sup> / <sub>16</sub> "	2 <sup>5</sup> / <sub>16</sub> "	1 <sup>31</sup> / <sub>32</sub> "
4F	3 <sup>21</sup> / <sub>32</sub> "	12"	2 <sup>1</sup> / <sub>2</sub> "	2 <sup>3</sup> / <sub>16</sub> "
5R	3 <sup>7</sup> / <sub>8</sub> "	9 <sup>3</sup> / <sub>4</sub> "	2 <sup>3</sup> / <sub>4</sub> "	2 <sup>1</sup> / <sub>4</sub> "
5F-6R	4 <sup>25</sup> / <sub>32</sub> "	11 <sup>3</sup> / <sub>4</sub> "	3 <sup>1</sup> / <sub>4</sub> "	2 <sup>7</sup> / <sub>8</sub> "
6F	5 <sup>11</sup> / <sub>16</sub> "	14 <sup>5</sup> / <sub>8</sub> "	4 <sup>1</sup> / <sub>8</sub> "	N/A