

# Standard Float Equipment -Float Shoes, Float Collars, Guide Shoes, and Cement Plugs, etc.

## Noted Design Appearance Characteristics

- PDC drillable
- Hi-flow rate valves
- Auto-fill designs
- Non-rotating and rotating profiles
- Any size, threads, or material grades available
- Double valves, Stab-in and Latch-in types
- Matching Latch down darts available

#### Performance

- Ensures no back-flow of cementing into the shoe track
- Reduces risk of wet shoes tracks
- Reduces risk of waiting on cement time
- API RP 10F CAT IIIC Rated

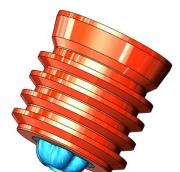
## Application

- Can be ran on all well trajectories
- Preferred in stable well bores



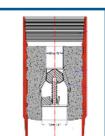






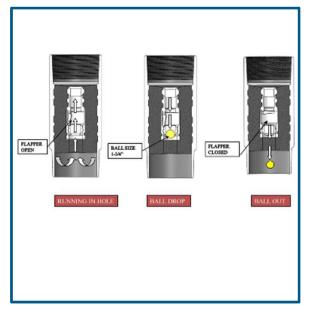


## Gryphon Float Valve Types

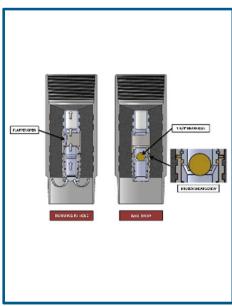


**Poppet Type** 

**Auto Fill** 



Differential Fill





## Poppet Valve Portfolio

VALVE SIZE	1"	2 1/2"	4 1/4"
FOR CASING SIZE	2 7/8" - 4 1/2"	5" - 8 5/8"	9 5/8" & ABOVE
INLET DIAMETER	1"	2"	3 1/8"
INLET FLOW AREA	0.82 in <sup>2</sup>	3.14 in <sup>2</sup>	7.67 in <sup>2</sup>
OUTLET FLOW AREA	1.4 in <sup>2</sup>	4.91 in <sup>2</sup>	9.62 in <sup>2</sup>
FLOW RATE	6 - 7 BPM	10 - 12 BPM	10 - 12 BPM
VALVE BODY	HPHT NYLON-GLASS FILLED COMPOSITE		
POPPET BODY	ALUMINUM CORE / HPHT COMPOSITE COATING		
POPPET PLUNGER	VITON/NITRILE/HNBR		
SPRING MATERIAL	PHOSPHORUS BRONZE		
SPRING FORCE	7 Lbs	10 Lbs	12 Lbs
TEMP RATING	400°F		
API FLOW RATING	III (10BPM-24Hrs-5000Psi)		
API TEMP RATING	C (400°F-5000Psi)		

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# Specialized Float Shoes – Reamer Shoes, Tapered Nose & Jetting Shoes

### Noted Design Appearance Characteristics

- PDC drillable
- Jetting ports high port up jets & down port jets
- Carbide reaming features
- Lipstick or tapered nose profile

#### Performance

- Jetting ports allow hole cleaning while running in hole
- Reaming features aid casing to work past consolidated formation cuttings
- Increases success of FIT tests, with cement places around the full circumference of the shoe track
- API RP 10F CAT IIIC Rated

### Application

- Critical casing/liner runs
- Recommended for use in deviated wellbores, ERD liner/casings and tortuous well paths
- When unconsolidated formations are expected.
- Aid to work past swelling clay formations







