

Gryphon Oilfield Solutions

Standard Poppet Valve Product Line

Introduction

Gryphon Oilfield Solutions is a new up-coming company in the market of supplying quality Casing Equipment Products to the energy industry. Our Team has industry knowledge from highly skilled employees who have combined experience from major Service Companies and Oilfield Product Manufacturers that will make GOS a top competitor in today's oilfield business environment. What this provides our customers is quality equipment solutions that is cost sensible and delivered through exceptional Customer Service. Teamed with a quality Casing Equipment manufacturing provider, our products are manufactured to high industry standards and delivered to perform as designed. All of this together makes GOS a truly reliable "Solutions Provider". Our success is achieved through offering the right solutions to our customers. It is not solely about our customers needs; It is about understanding why they need it, and that it is the correct solution to their challenges.

Standard Poppet Valve Float Shoes and Float Collars

Today's Operators demand reliable Casing Equipment that performs to top operating efficiencies every time. Gryphon Top Filling Poppet Valves are simple quality technology designs that offer reliability for today's well construction environments. Every facet of the design and fabrication of Gryphon's Casing Equipment; purchasing raw materials, material processing, machining, valve production, cement pouring, quality control, testing, and inspection, **are all conducted in-house** by highly qualified manufacturing technicians. Quality manufacturing methods enable GOS to guarantee that every tool produced complies with API specifications, Q1 and ISO Quality Management Systems.

Design

- Gryphon's Float Shoes and Collars are made from seamless casing grade steel
- Poppet Float Valve design ensures positive sealing in vertical, horizontal and deviated wells
- The Poppet Valve is fabricated from high strength Aluminum and high-quality polymer plastic, coated with phenolic material, and then natural rubber coated for effective seal
- Case Bodies are Phosphate Coated, then Powder Coat Finished for maximum rust protection, make up torque reduction, reduce galling, and improved cement-case bonding
- The valve is encased and held in place by a high-strength cement mixture
- The balanced flow poppet valve design allows for maximum circulation rates with less wear
- Float Valve equipment has been tested **in house** in a Flow Loop and HPHT Testing Equipment
- Compatible with all mud types (WBM-OBM-SBM)
- Float valves that are compatible in H₂S environments
- Three poppet valve sizes cover the tubing and casing sizes of 2-7/8" to 30"

Features

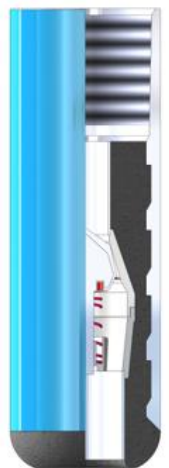
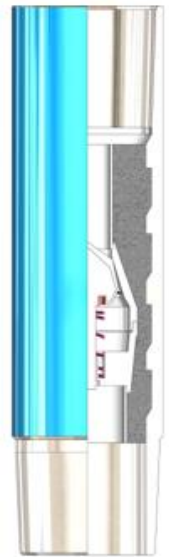
- Float equipment can be supplied in all casing grades of steel
- Full traceability of component material starts from the mill material certificates to delivery
- Universal Blank, API, and Premium Threading capable

- All machining is processed in-house on CNC machines operated by special skilled technicians
- Equipment is tested and rated in compliance with API RP10F required specs
- Poppet valves are rated at category III-C (10 BPM/24 hrs. and 5000 psi/400 degF)
- Products are available in 2-7/8" to 30" sizes and custom sizes can be made on request
- PDC drillable
- Poppet valve designs can be ordered in various combinations such as;
 - Single or Double Valve Configuration
 - Non-Rotating with matching NR Plug sets
 - Latch Down Plug type
 - Stab-in and Latch-in for Inner String Cementing with or without matching wiper darts
 - Multiple Float Shoe Nose designs and Float Collar options
 - *Minotaur Float Valve* High Back Pressure options

Benefits

- Reliable top fill float check valves that provide well control while running casing
- Used to prevent flowback of cement slurry when pumping stops
- Provides optimal shoe track integrity
 - Plug landing pressure tested and pressure rated
 - Back pressure ratings tested to API RP10F requirements

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 ²	3.14 in ²	7.67 in ²
OUTLET FLOW AREA	1.4 in ²	4.91 in ²	9.62 in ²
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)		



For Additional Information or questions please contact Gryphon Oilfield Solutions at;

USA Main Office & Distribution Center / Houston, Texas (281) 738-3110

Canadian Office & Distribution Center / Calgary, Alberta (403) 720-3197

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