

# **CEMENT HEAD ASSEMBLY SYSTEMS**



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# High Strength, In-line, Rotating Cement Head Assembly

Gulfstream Services' patented assembly arrives torqued and loaded on location. Once the assembly is picked up, circulation and pipe rotation can begin immediately allowing for continuous rotation and reciprocation during the cement job. The optional remote actuation system allows the tool to function from the rig floor, eliminating trips in the riding belt.

## Specifications

- Internal pressure 10,000 psi (Safe Working Pressure)
- Tensile yield to 2,000,000 lbs
- Integral construction
- Torsional yield to 89,000 ft/lbs
- Compatible with all Top-Drive Systems
- Compatible with all balls and darts up to 6.3" OD & 8" Nerf
- Job-specific workstring connections

## Assembly Dimensional Chart

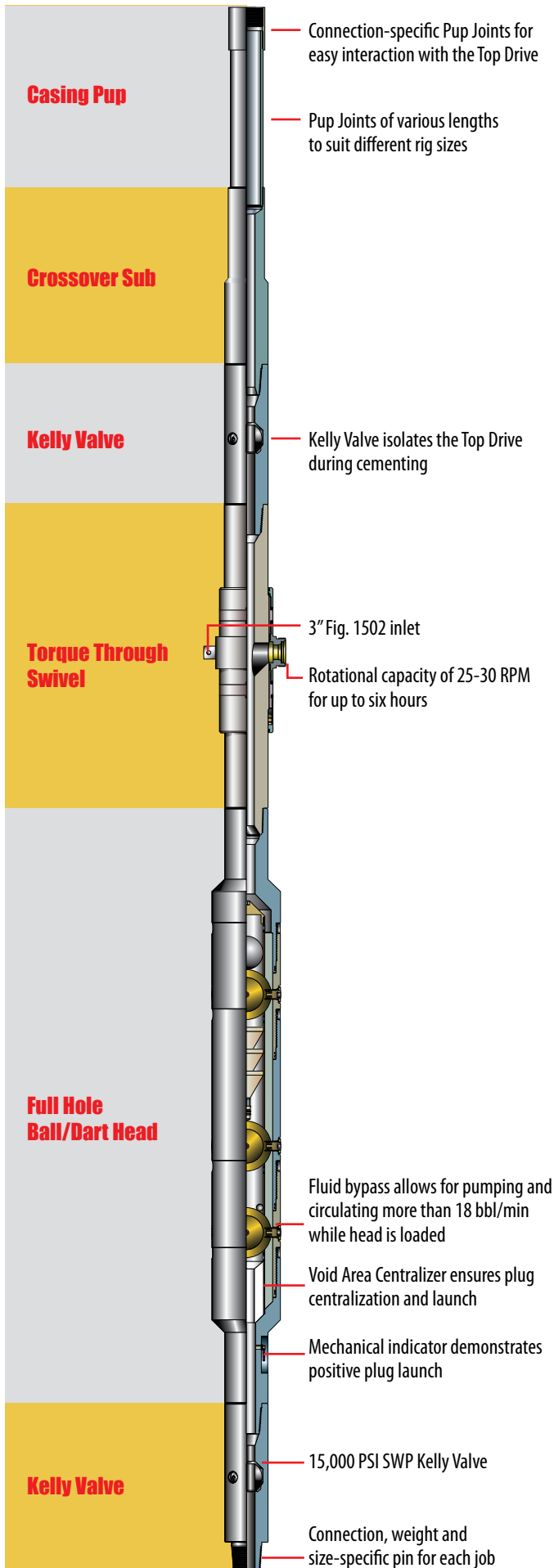
| Component Description | Lengths                | Weight* | REG          |              |
|-----------------------|------------------------|---------|--------------|--------------|
|                       | Shoulder-Shoulder (in) | lbs     | ID (in)      | OD (in)      |
| Plug Head             | 120                    | 2000    | 6.5          | 13           |
| Torque Through Swivel | 72                     | 1300    | 3.0625       | 13           |
| Kelly Valves          | 36                     | 250     | 3.0625       | 8            |
| Pup Joint             | 96 - 180               | 160-300 | Job-Specific | Job-Specific |
| Crossovers            | 48                     | 200     | Job-Specific | Job-Specific |

Notes: Approximate weight of tool in standard configuration is 4500 lbs.

Overall made-up length of tool in standard configuration is 31' - 38'.

Max Flow Rate is 17.63 bbl/min based on a 3" inlet.

\*Weights are approximations



**Casing Pup**

**Crossover Sub**

**Kelly Valve**

**Torque Through Swivel**

**Full Hole Ball/Dart Head**

**Kelly Valve**

Connection-specific Pup Joints for easy interaction with the Top Drive

Pup Joints of various lengths to suit different rig sizes

Kelly Valve isolates the Top Drive during cementing

3" Fig. 1502 inlet

Rotational capacity of 25-30 RPM for up to six hours

Fluid bypass allows for pumping and circulating more than 18 bbl/min while head is loaded

Void Area Centralizer ensures plug centralization and launch

Mechanical indicator demonstrates positive plug launch

15,000 PSI SWP Kelly Valve

Connection, weight and size-specific pin for each job

# Rotating Casing Plug Launching Assembly

Gulfstream Services' patented assembly arrives torqued and loaded on location and is ready to be picked up just like the last joint of casing. Once picked up, circulation and pipe rotation can begin immediately. The rotating casing plug launching assembly allows for continuous rotation during the cement job. This results in more stable cement jobs and better bond logs.

## Specifications

- Internal pressure 10,000 psi (Safe Working Pressure)
- Tensile yield to 2,000,000 lbs
- Integral construction
- Torsional yield to 89,000 ft/lbs
- Compatible with all CRT and Top-Drive Systems
- Compatible with 4.5", 5", 5.5", 7" and 7.625" casing plugs
- Job-specific casing connections

## Assembly Dimensional Chart

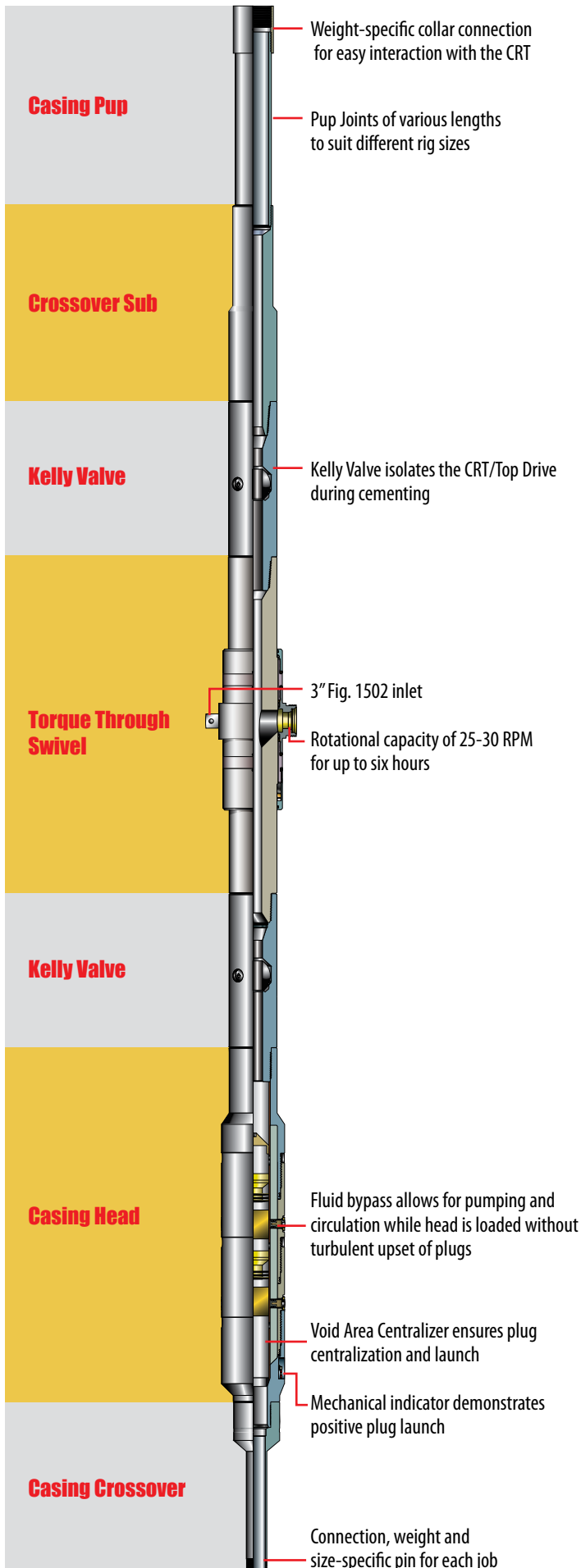
| Component Description | Lengths                |         | Weight*      |         | REG          |  |
|-----------------------|------------------------|---------|--------------|---------|--------------|--|
|                       | Shoulder-Shoulder (in) | lbs     | ID (in)      | OD (in) |              |  |
| Plug Head             | 120                    | 2000    | 6.5          |         | 13           |  |
| Torque Through Swivel | 72                     | 1300    | 3.0625       |         | 13           |  |
| Kelly Valves          | 36                     | 250     | 3.0625       |         | 8            |  |
| Pup Joint             | 96 - 180               | 160-300 | Job-Specific |         | Job-Specific |  |
| Crossovers            | 48                     | 200     | Job-Specific |         | Job-Specific |  |

Notes: Approximate weight of tool in standard configuration is 4500 lbs.

Overall made-up length of tool in standard configuration is 31" - 38".

Max Flow Rate is 17.63 bbl/min based on a 3" inlet.

\*Weights are approximations



**Casing Pup**

**Crossover Sub**

**Kelly Valve**

**Torque Through Swivel**

**Kelly Valve**

**Casing Head**

**Casing Crossover**

Weight-specific collar connection for easy interaction with the CRT

Pup Joints of various lengths to suit different rig sizes

Kelly Valve isolates the CRT/Top Drive during cementing

3" Fig. 1502 inlet  
Rotational capacity of 25-30 RPM for up to six hours

Fluid bypass allows for pumping and circulation while head is loaded without turbulent upset of plugs

Void Area Centralizer ensures plug centralization and launch

Mechanical indicator demonstrates positive plug launch

Connection, weight and size-specific pin for each job

# Wireless Actuation System



By introducing the Wireless Actuation System, Gulfstream Services has transcended time to make the future of cement head systems safe, reliable and available to any location.

Gulfstream's wireless actuated cement head assembly eliminates all trips in the riding belt during cementing operations and simultaneously eliminates the use of bulky, unruly, and performance-limiting hydraulic or pneumatic-based actuation systems. Until now, remotely actuated cement head assemblies have been limited in performance by their actuation systems and the umbilicals that go with them. The Gulfstream Wireless Actuation System eliminates these performance impediments.

Using military-based spectrum bandwidth technology, the Wireless Actuation System (Atex and Class 1 and Div 1 approved) allows for on-demand launching of objects such as casing plugs, activation darts and wiper balls at any point during the cement job, without the necessity of stopping rotation. The execution and success of your cement job is no longer dependent on unreliable performance-leaching hydraulic systems.

Keeping boots on the deck and umbilicals and hydraulic fluid off the deck, the Gulfstream Wireless Actuation System is the future of the cement head assembly operations-making each job safer, more environmentally conscious and more consistent.



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