

## CMIB Light

### Internal bypass cement manifold

#### APPLICATIONS

- Cementing operations with a top-drive system on land rigs
- Ideally suited for smaller rigs on land where weight and handling are constraints
- Shallow to intermediate-depth well applications
- Well applications requiring reciprocating and rotating of the liner while cementing
- Compatibility with single- or dual-wiper plug cementing systems
- Well applications requiring ball drop operations

#### BENEFITS

- Increases rig safety and handling on rig floor because of light weight
- Eliminates cement contamination of top drive, preventing associated maintenance costs
- Improves cement integrity and enhances well stability and safety because of rotation and/or reciprocation of the liner during cementing
- Maximizes rig safety during handling and rotation because of flush OD profile
- Increases rig safety because remote control unit enables personnel to control cement manifold from outside the rig floor

#### FEATURES

- Ratings to 750,000-lbm [340,194-kg] hook load and 30,000-ft.lbf [68,000 N.m] torque
- 10,000-psi [68,948-kPa] pressure rating
- 3.235-in [82-mm] through-bore for high displacement rates
- Modular system for different ball-drop and wiper-plug operations
- Optional remote-control unit
- Single-piece swivel housing that eliminates threads, flanges, and welds
- Optional Kelly valve for use in upper or lower end of swivel
- Design that prevents plugs or balls from floating into drop mechanisms
- Integral antirotation tie-off located on swivel housing

The internal bypass cement manifold (CMIB) Light is well suited for smaller rigs on land where weight and handling are constraints. The CMIB Light can be used for cementing liners with a top-drive system on the rig, eliminating cement contamination of the top-drive components. The CMIB Light creates a flow path for cement and displacement fluids without allowing them to pass through the rig's top-drive assembly.

The CMIB Light consists of an internal bypass manifold with modular ball-drop and plug-drop assemblies. The one-piece swivel housing eliminates threads, flanges, and welds while increasing strength and reducing the bending loads imposed on the inlets. Drop mechanisms are self-contained for low maintenance.

The CMIB Light can be configured for single-plug, dual-plug, or single-ball drop operations. It is also suitable for running and cementing all types of liner hangers, including rotating liner-hanger systems

Rotating and/or reciprocating the liner while cementing improves cement integrity, enhancing well stability and safety.



*CMIB Light internal bypass cement manifold.*

# CMIB Light

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## CMIB Light Specifications

Nominal OD, in [mm]	Minimum ID, in [mm]	Upper/Lower Connection, in	Hook Load, lbm [kg]	Torque, ft.lbf [N.m]	Pressure, psi [kPa]
11 [279]	3.235 [82]	4.50 IF/4.50 IF	750,000 [340,194]	30,000 [68,000]	10,000 [68,948]

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## CMIB Light Swivel Specifications

Pipe Connection, in	Inlet Connection	Apparent Diameter, in [mm]	Nominal ID, in [mm]
4.50 IF	WECO 2-in 1502	22 [558.8]	3.235 [82]

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