

RADIAL FLOW LUBRICATOR



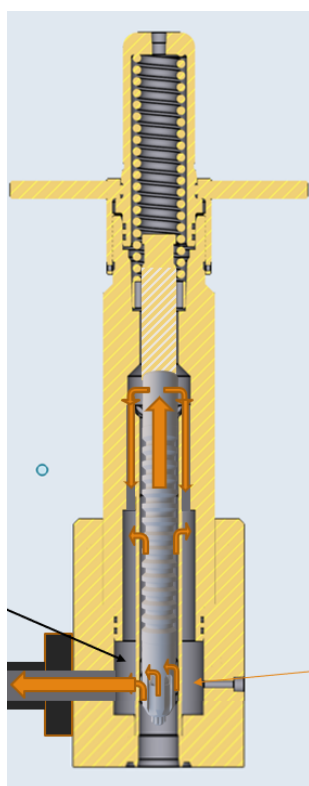
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SLEEVE SELECTION GUIDE

The Pat. Pending Radial Flow Lubricator is versatile and easy to install without any wellhead modifications. This lubricator is suitable for all plunger styles including conventional, free cycle or two-piece designs.

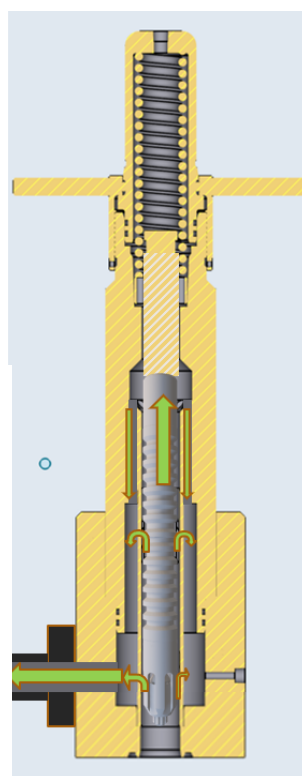
High Rate Sleeve >75% of Critical rate

Med-High Rate Sleeve <75% of Critical rate



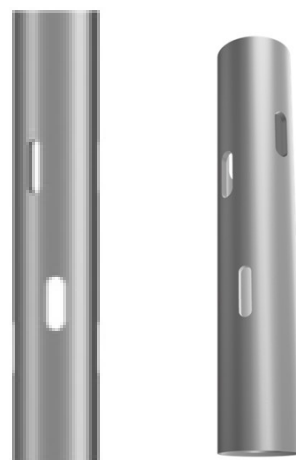
1 row of 2 slots
at top

2 rows of 2 slots on
bottom



2 rows of 2 slots
at top

1 row of 2 slots on
bottom



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FLOW SLEEVE APPLICATIONS

- The High Flow sleeve is installed in conventional mode with 4 slots on the bottom as a standard coming out of manufacturing, this configuration will work with 95% of well conditions for all plunger types. This configuration provides the least amount of flow restriction during operations.
- If the Two Piece or Quick Trip type plungers are not coming all the way to the top of the lubricator and tripping the valve or dislodging the ball, the High Flow Sleeve may need to be flipped to create a restriction to drive the plunger up further into the lubricator.
- In Low Flow wells if the plunger is bouncing and creating undo stress on the lubricator spring a low flow sleeve may be required.
- If these three rules of thumb don't apply to your well, there are more plunger and sleeve configurations that can be considered.

RADIAL FLOW ADVANTAGES

- The design eliminates restrictions created by an orifice or valve
- The plunger creates the restriction based on flow across the sleeve acting like a slide valve.
- Cross sectional flow area through the large sleeves is always 1.5 - 2 times larger than the cross-sectional area of the tubing.
- Eliminates erosional conditions in the lubricator body. The flow sleeve will disperse flow evenly through its ports and maintains wellhead integrity of all components.
- The Radial Sleeve has outlet flow slots or holes around the sleeve radius, the plunger can not be pulled over to any specific outlet.

FLOW SLEEVE FOR LOWER RATES

Medium-Low Rate <60% critical rate

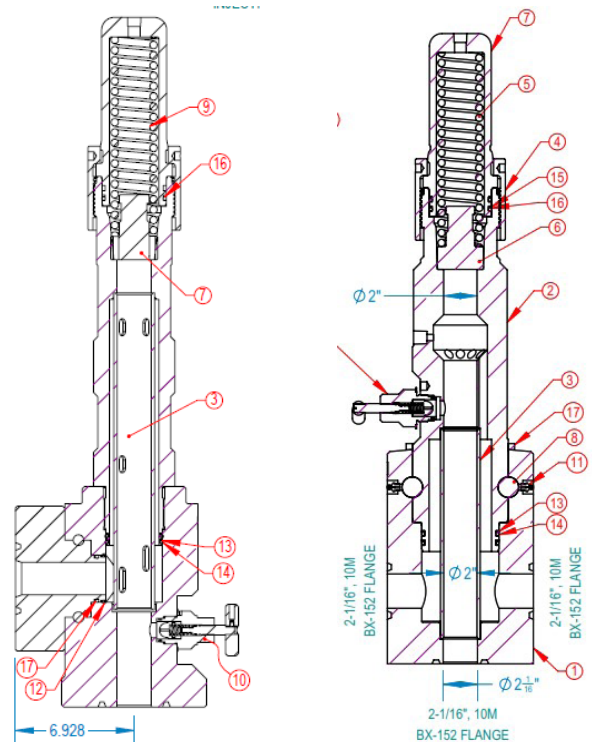
1 hole at top

4 holes at bottom

Low Rate <45% Critical Rate

4 holes at top

1 hole at bottom



Flow Tee Radial Lubricator

Flow Block Radial Lubricator