

Smart Flow Technology

Universal Flow Block

Definitive Optimizations Universal Flow Block is designed to work with existing API wellheads. It allows easy addition of plunger lift applications to your well. There are 3 potential path ways that allow the user to easily set this flow block up in several positions as the wells operating conditions change.

Configuration #1 - Regular Operation has a 2 1/16" vertical flow path with a 2" HZ outlet.

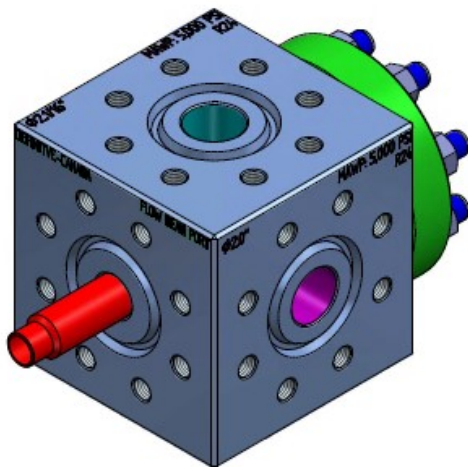
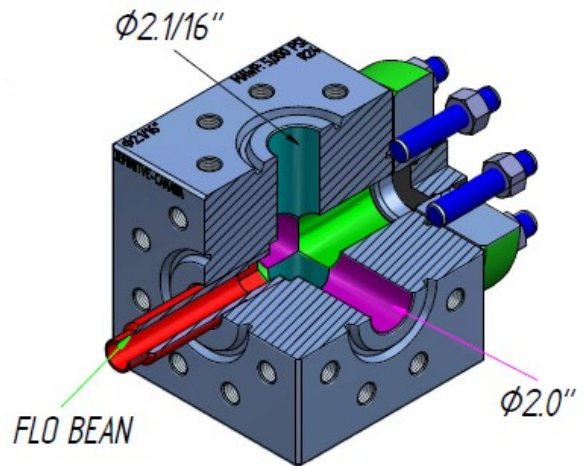
- This position allows the producer to operate a free flowing well as you would with any normal flow block. It does not restrict access to the wellhead isolation threads in the tubing hanger and provides a 2" flow path to your gathering system facility.

Configuration #2 - Bean Choke Operation has a 2 1/16" vertical flow path with a 1.25" HZ outlet.

- This position allows the producer to install a restricted flow path exiting the flow tee. There is also the option to add an insert choke to allow a pressure drop or restrict flow on new high rate flowing wells.

Configuration #3 - Conventional Plunger Operation has a 2" vertical path with a 2 1/16" HZ outlet.

- This position allows a full port flowing option that can be used when a conventional plunger is in use. The 2" bore ensures the plunger will operate and travel efficiently into the lubricator passed the plunger arrival sensor. The flow block becomes the first half of our 2 piece lubricator, the second half is our "shorty" single outlet lubricator which is cheaper than a typical dual outlet lubricator.



Position #4 - Two Piece Plunger Operation has a 2" vertical flow path and 1.25" HZ outlet.

- This position allows a 2 piece plunger to operate without concern of "flowing the ball" into the flowline to the facility. The 1.25" restricted outlet port will not allow the 1.375" Ball to accidentally flow down the flow line. This would normally happen when using a typical flow block or flow tee.
- An optional insert choke can be used to create DP between the lower and upper outlet ports to ensure a two piece plunger remains at surface during the flow period. This eliminates having to pinch the lower wing valve to restrict the flow.
- This configuration also allows the set up of a lubricator and plunger lift system while only using one wing valve, saving money on the overall installation.

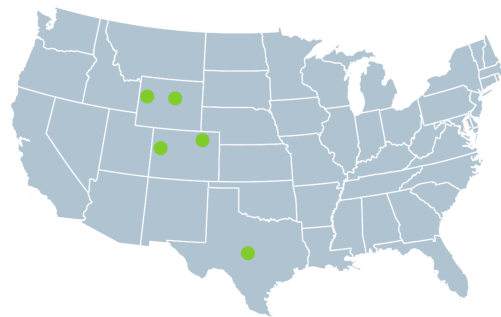
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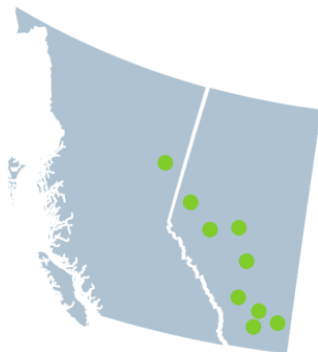
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