

Product Data Sheet

Annulus Lubrication Filling Valve



UNITY'S ANNULUS LUBRICATION FILLING (ALF) VALVE HAS BEEN DEVELOPED TO ALLOW THE TUBING AND CASING ANNULI ON A WELL TO BE FILLED WHILST SIMULTANEOUSLY PROVIDING A CONDUIT FOR ANY TRAPPED AIR TO BE EXPELLED.

Full annuli are critical for accurate pressure monitoring and ensuring the fluid head remains above kill weight, so regular top ups are an essential part of wellhead maintenance. Annulus fluid levels can drop due to losses caused by leaks and other well issues. In order to ensure they are at the right levels for normal operations, or before a well abandonment, annulus top-ups are carried out.

An annulus top-up is traditionally performed by lubricating the annulus with fluid and then bleeding it to ensure there is no trapped air. This can be time consuming on single outlet wellheads where there is only one gate valve to access the annulus. The ALF valve removes the time involved in having to pressure up and bleed the annulus repeatedly to ensure the fluid level is fully topped up and free of trapped air.

Benefits:

- Quicker, safer and more efficient annulus top-up operations
- Minimises casing shoe damage by reducing numerous pressure cycles
- Eliminates the need to remove instrumentation on dual outlet wellheads, negating the requirement for the associated isolations and permits
- Greatly reduces annulus top-up operational costs
- Small footprint, operable in restrictive spaces
- Less manual handling during rig-up, operations and rig-down of annulus top-up equipment
- Provides a method of accessing the annulus safely for other annulus operations.



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Specification:

Annulus Valve Connection:	As required
Fill/Pumping Connection:	2" 1502 Union
Vent Tube/Bleed Line Connection:	¾" BSP
Working Pressure:	Up to 10,000 psi / 670 bar
Overall Length (excluding vent tube):	19" / 483 mm
Internal Bore:	2" / 51 mm
Weight:	50 lbs / 23 kg
Standards:	API 6A, NACE



Features:

- Allows annuli to be topped up whilst air is dispersed through a vent tube/bleed line
- Quick union connections allow fast and easy deployment
- Hang off point to support weight of assembly when deployed
- Pack off and vent tube retention system ensure well integrity is maintained at all stages of annulus top up operations
- Operable with a live annulus
- Small and compact to work in the most restrictive of wellhead spaces
- Wellhead x-overs allow integration to any annulus gate valve set up
- Manufactured in accordance to API 6A, PSL 3 and PR1 requirements
- Temperature Class P-V as standard.

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