Flow Head

Description

When testing a well, surface shut off is usually provided by a flow control head of flowhead that functions as a temporary christmas tree. The flowhead is located on top of the well and is the first piece of equipment at the surface that fluid flows through. The only alternative to flowhead is the christmas tree, which is a permanent head installed after the well is completed. The christmas tree accommodates a completion string. Because the flowhead facilities testing that occurs before a well is completed, in contrast to the christmas tree, it is designed to accommodate a temporary test string. The threaded connection on the bottom sub allows easy connection and disconnection of the temporary test string.

Features & Benefits

- A master valve that allows isolation of the surface equipment from the downhole test string.
- A swab valve that permits introduction and retrieval of wireline tools.
- A flow line valve to allow fluid to flow from the well. This valve is usually operated with a hydraulic actuator, allowing remote and automatic closure.
- A kill line valve used to pump fluid into the well.
- An optional swivel allowing the test string suspended from the flowhead to be rotated independently of the main flowhead block.
- An elevator sub used to handle the flowhead with the rig elevators.
- A threaded connection on top of the elevator sub used to attach pressure equipment.

Applications

- Well Testing
- DST
-Flowback
- Emergency Response

Operating Specification

ID	**2-9/16 in.**	**3-1/16 in.**	**3-1/16 in.**	**5-1/8 in.**	**6-3/8 in.**	**7-3/8 in.**
WORKING PRESSURE	10,000 psi	10,000 psi	15,000 psi	20,000 psi	15,000 psi	10,000 psi
LOAD RATING (psi)	260,000	525,000	690,000	1,400,000	1,500,000	1,500,000
BOTTOM/TOP CONNECTIONS	3-1/2 in. IF	3-1/2 in. IF	5-3/4 in. ACME	10-3/4 in. ACME	10-3/4 in. ACME	10-1/8 in. ACME
OUTLETS	(2) 2-9/16 in., 10K Flange	(2) 3-1/16 in., 10K Flange	(2) 3-1/16 in., 15K Flange	(2) 3-1/16 in., 20K Flange	(2) 4-1/16 in., 15K Flange	(2) 5-1/8 in., 10K Flange
CHEMICAL INJECTION	Optional	Optional	Autoclave Chemical Injection Port	(2) 3/8 in. Autoclave Chemical Injection Port	(2) 3/8 in. Autoclave Chemical Injection Port	(2) 3/8 in. Autoclave Chemical Injection Port
SWIVEL	2-9/16 in. 10K	3-1/16 in. 10K	3-1/16 in. 10K	5-1/8 in. 20K	6-3/8 in. 15K	7-3/8 in. 10K
LOWER MASTER VALVE	2-9/16 in. 10K	3-1/16 in. 10K	3-1/16 in. 10K	5-1/8 in. 20K	6-3/8 in. 15K	7-3/8 in. 10K
VALVE OPERATION	Manual/Hyd.	Manual/Hyd.	Manual/Hyd.	Hydraulic	Hydraulic	Hydraulic
BASKET	DNV 2.7-3	DNV 2.7-3	DNV 2.7-3	DNV 2.7-3	DNV 2.7-3	DNV 2.7-3
CODES	NACE	NACE	NACE	NACE	NACE	NACE