

# PETROLEUM PRODUCTION & REFINING



FACILITY:	APPLICATION PROBLEM:	SOLUTION:	SUCCESS SINCE:
Large Oil Rig Operation	Vertical Treater Dump Valve High Flow and Foam Backup	DFT® Model FBC® Check Valve	2009

## Challenge:

An Oil Operation was experiencing problems in their process areas within the treater shack and larger oil rig operations.

There was a foaming problem occurring when the oil, gas and salt water would come into the treater at a high velocity. It came in so fast, that it made foam grow in the treater. The foam went down the gas line creating problems in the system.

## Solution:

The DFT® model FBC® Compact Insert Check Valve was the ideal solution. It was used as a restrictor to slow the flow and keep the foaming to a minimum.

The FBC was installed on the down-stream side of the Vertical dump valve, located on the salt water leg coming off the vertical treater (pictured at right). The check valve was used to slow the flow and cure the foaming problem occurring when the oil, gas and salt water flowed into the treater at a high velocity.

This small footprint check valve fit between the Victaulic pipe couplings, eliminating the heavy weight of the current swing checks used on manual hose applications.

Upon installation it was discovered they cured a 2nd problem. They eliminated the shock problem which was causing the 3" flanged dump valve lever to bounce due to all the gas and liquid pouring in.

The FBC Check Valve was a very inexpensive solution.

Image shows the DFT model FBC Compact Check Valve installed on the down-stream side of the Vertical Dump Valve.

## DFT® Model FBC® Compact Insert Check Valve Features:

- 1" to 4" line size
- ASME class 150 and 300
- Meets ASME B16.34-2013 & MSS SP-126
- Use in Schedule 40 pipe, consult factory for Schedule 80
- Stainless steel construction
- Edge-guided disc
- Spring assisted silent closing, non-slam
- Tight shutoff – lapped disc & seat
- Horizontal or vertical installation
- Extended tag for easy identification of the installed valve
- Easy maintenance



- Versatile
- Protected spring



*Contact DFT for a solution to your problem.*