

SMART VENT SAFETY SYSTEM

Oceaneering's Smart Vent Safety System is specifically designed to provide efficient riser repairs and to maximize the safety of workers. The Smart Vent Safety System creates a safe work site by venting any hazardous vapors away from the workstation during pipe repairs.

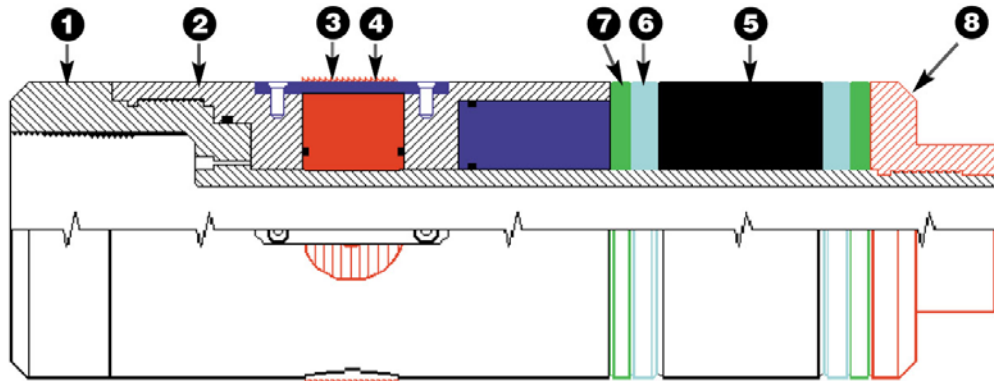
Repairs utilizing the Smart Vent Safety System can be executed without flooding or purging the riser, eliminating the need to handle or dispose of contaminated seawater. The system maintains a large vent area that ensures proper control of pressurization and release of vapors. Potential damage and environmental hazards resulting from spills are minimized since hazardous fluids are piped to a remote storage location. The Smart Vent Safety System provides a safe and economical solution to ventilation requirements.

With the Smart Vent Safety System, testing the entire line is not necessary if only the last weld or mechanical connection requires testing. The Smart Vent Safety System is anchored, vented and available in all pipe sizes. It can be used repeatedly without redressing. For additional personnel protection, the hydraulic pressure system is monitored by an alarm that sounds warning signals to alert workers in the event of a pressure reduction.

The Smart Vent Safety System has a proven track record of safe technology for riser repairs. Customers worldwide utilize the Smart Vent Safety System for ensuring employee safety, competitive pricing, working efficiency, and environmental protection.



SMART VENT SAFETY SYSTEM SPECIFICATIONS



Drawing:

1. Mandrel
2. Housing
3. Piston
4. Anchor Slips
5. Primary Element
6. Secondary Element
7. Compression Ring
8. Retaining Cap

Product Advantages

- Provides easy, efficient, economical, and safe riser repairs
- Repair methodology complies with MMS Safety Alert "No.159"
- Available in all pipe sizes and can be used multiple times without redressing

Principles of Operation

The pipeline is first parted at a flange or cold-cut to provide access for the Smart Vent.

- The Smart Vent is lowered inside the pipe below the depth of desired cut.
- The hydraulic fluid line is used to expand the rubber collar and seal against the pipe wall. The slip anchors hold it in place.
- Once the Smart Vent is appropriately set in place, a safe work zone is created.
- Any residual hazardous fluids are vented through the vent pipe.
- The riser is now safe for the workers to perform all necessary repair work.
- Upon completion, the repaired pipe section can be safely tested.

