FUELTECH
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Gas return system

Product information

The gas return buffer system is designed for marine LNG applications. During fuel changeover or engine shutdown, it recovers unused fuel gas from the engine via the GVT and returns it to storage, supporting safe, efficient operations.

To enhance operational safety, the gas-return option integrates two valves downstream of the GVT bleed valve: a gas-return vent valve that directs gas to the engine vent mast, and a gas-return buffer valve that routes gas to the buffer.

Under normal operation, the system remains in standby with the buffer valve closed and the vent valve open. Before a fuel changeover or engine shutdown, fuel gas in the engine is routed through the GVT bleed valve into the gas return buffer system. Once pressure is equalised between the engine and the buffer, any remaining gas is safely vented. The gas collected in the buffer tank can then be transferred back to storage or supplied to a consumer.

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Data Sheet

Description	Gas return block
Media & flow	
Media	Methane
Pressure & temperature ratings	
Design pressure	350 bar
Operating pressure	300/325 bar
Design temperature	-25 °C to +60 °C
Internal block volume	0.16 L