



Type RPS / Pilot Operated Safety Valve for ME-GI Dual Fuel Gas Supply System

Overview

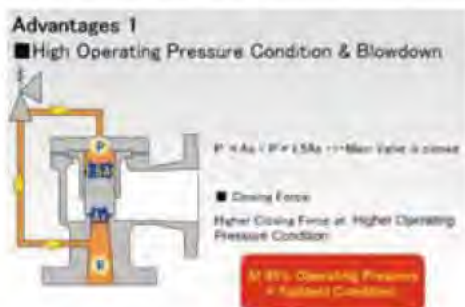
Our new development to accommodate the growing trend of dual fuel diesel engine propulsion system in marine market. FUKUI RPS type meets the demanding service condition of ME-GI Dual Fuel Gas Supply System with several technical Advantages.

Our experience in a specialized cryogenic and high pressure field over the years supports your high efficient and safety operation.

Advantages

Advantages 1: Superior Seat Tightness at High Pressure Condition

The main valve piston is designed to have a larger area on the dome of the piston than on the seat area. Up to the set pressure, because of the larger area on the dome area, the net force holds the piston tightly against the main valve nozzle. As the operating pressure increases, the net seating force increases and tends to make the valve tighter. This feature allows the pilot-operated valve to be used where the maximum operating pressure up to 95% of the set pressure.



Advantages 2: Less Damage & Less Effect against Vibration

The valve internal components are sealed tightly with O-rings. The elasticity of the O-rings protects the valve internals from the vibration given by the hardware in the Fuel Gas Supply System. Anti-vibration rubbers and bracket are also equipped to protect the pilot valve.



Advantages 3: Safer operating action (Modulate action) & Lower Blow Down

The modulate action pilot operated valve limits the amount of relieving fluid to only the amount required to prevent the pressure from exceeding the allowable accumulation. It is enable to minimize the loss of fuel and less effect due to the less reaction force to the hardware compared to pop action spring loaded types. The lower rated blow down rate 5% (Valve will close up to 95% of set pressure) also plays the role of the safer operation and the minimum loss of fuel in case of emergency.



Specifications

Type RPS

- Non Flow Modulating Pilot
- Set Pressure: Up to 700 barG
- Inlet Connection: 2500LB ASME FLANGE or High Pressure Clamp Hub
- Temperature Range: -196 to 232 degC



RPS 700



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