



Product Rental

Safe Offshore / Onshore Testing and Flushing Zone 1 / Safe Area

HCS Control Systems Test and Flushing Workshops has been designed to enable pressure testing, flushing, and fluid cleanliness services to be carried out safely in hazardous area environments.

The design of the HCS Test and Flushing Workshops draws upon our many years of operational experience with installing, testing and certifying hydraulic control systems. The Workshops incorporate a blast wall partition segregating the pressure testing operations from the 'safe' Operator cabin, in compliance with HSE GS4 and GRR 168/98 pressure directives.

The design provides the optimum configuration to ensure the best quality fluids operations to be undertaken in any environment. HCS has a fleet of these units available for immediate deployment to anywhere in the world, along with a team of specialist hydraulic technicians as required.

- Certified DNV 2.7.1 and Atex Zone 1. Units optionally available in Safe Area configuration (as shown)
- Compact size – Standard 10' ISO footprint
- Applicable to site FAT / SIT activities, right through to offshore testing, flushing, intervention, and production controls operations
- Full control, measuring and recording facilities in the laboratory cabin
- Remote operation of hydraulic controls and protection of personnel during testing activities
- Easily configurable for specific applications
- Specialist personnel available



High Quality Test and Flushing Services available for immediate deployment.

All Workshops are supplied complete with microscope and test kit to enable sample testing to NAS 1638 and SAE AS 4059.



Rental of Test and Flushing Workshops (Long / Short Term Rental)

Certified to DNV 2.7.1 / Atex Zone 1





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Zone 1 / Safe Area: Offshore Test & Flushing System

Hydraulic Pressure Test Output

- Output Connection:** 3/8" Medium Pressure Female
- Pump Detail:** 20,000 psi (1,379 bar) pneumatically operated hydraulic pump
- Relief Valve:** Operator adjustable variable relief valve to protect system under test
- Test Equipment:** 2 positions for calibrated chart recorder and test pressure gauge

Hydraulic Flushing Output

- Output Connection:** JIC-6 Male
- Return Connection:** JIC-6 Male
- Pump Detail:** Electric flushing pump capable of 36 LPM at 5,800 psi (400 bar)
- Hydraulic Filters:** 3 micron pressure and return filters
- Hydraulic Flow Meter:** Calibrated hydraulic flow meter located within flushing return
- Sampling:** Fluid sample points located throughout system
- Relief Valve:** Operator adjustable variable relief valve to set flushing pressure

Reservoir and Fill Details

- Capacity:** 260 Litres
- Instrumentation:** Level gauge, temperature gauge and low level switches
- Fill Pump:** Air operated fill pump provided with barrel lance
- Returns:** Fluid cooler included in returns controlled via reservoir temperature switch

Utilities

- Electrical Input:** 380-420 V 50/60 Hz
- Lighting:** 2 off fluorescent lights with switch (including emergency lighting)
- Air Supply:** 7 Bar

Frame Details

- Length:** 3,108 mm
- Breadth:** 2,238 mm
- Height:** 2,438 mm
- Actual Weight:** 4000 kg
- Skid:** 10' Container with 4 point lifting set and fork lift pockets
- Paintwork:** Painted to offshore standard ISO 12944
- Certification:** DNV 2.7-1 - Offshore Containers June 2013
- Hazardous Area Rating:** Zone 1 Gas IIB Temp T4 / Safe Area

The system can be configured for specific applications at short notice.



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