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The manufacturer's safety and operating instructions and those of the loading/unloading point must be observed for all phases of the loading/unloading process!

Steps:

- Drive up to the unloading point, apply the parking brake, stop the diesel engine, ignition remains switched on (switch on the ignition about 5 – 10 seconds after stopping the diesel engine)
- Prepare unloading as prescribed by the owner (secure transfer point, etc.)
- Switch on the control box: Hold the green indicator lamp at ON position for about 2 seconds
 - The system starts, communication is set up, lamp test is run
- Pump menu:
 - All important status messages are indicated by icons, see table below.
 - The diesel engine is started by pressing the DIESEL button once at ON position. The lamp in the switch flashes. (This function is only available with Hydroment V320 traction vehicle)
 - The P.T.O. is engaged by pressing the DIESEL button at ON position once more. The lamp in the switch gives constant light.
 - The P.T.O. and the diesel engine are stopped in reverse order.
 - The engine and the PTO on trucks with older systems must be started manually
 - The START/STOP keys start/stop the pump system.
 - The required output stage (15-20-30-40) can be selected with the PLUS/MINUS keys.
- Man-down function:
 - The man-down function can be used at the cable (green button) or with the same effect also by pressing the yellow TMS button at the control box.
 - When prompted during pump service (TMS button at the control unit or in the control box light), press button once to confirm that you are there.
 - When the TMS button at the control unit or in the control box is pressed without prompt, the pump system also stops.
- Emergency Stop:
 - Hit the emergency stop button in an emergency situation. The pump system and the diesel engine will stop.
For a new start switch off the ignition and then switch it on again.
 - Check the function of the emergency stop button regularly. If it does not work properly stop pumping immediately and have the fault set right by a specialist contractor.
- Loading / compressed air consumption:
 - The control box can be switched on while loading is in progress. The diesel engine can be started/stopped by the DIESEL OFF/ON function as required for pumping air (air suspension/pneumatic valves, etc.).
- Switch off:
 - Always switch off the control box while driving.

Icons and their meanings		
Icon	Meaning	Note/action
	Medium currently set	Possible versions: LIN / LOX / LAR / LCH4 / LCO2
	Output step currently set (green when pump is running, white when pump is off)	Possible settings: 15 - 20 - 30 - 40
	Pump is cold	
	Pump temperature is too high	Run the pump until cold, check valve position
	Hydraulic pump supply pressure, pressure measurement enabled	Pressure measurement starts when the P.T.O. is engaged

Icons and their meanings		
Icon	Meaning	Note/action
	Hydraulic pump supply pressure, pressure measurement successful	Pressure measurement completed successfully
	Diesel engine enabled (only on tractor with controller V320 or higher)	Icon is hidden when P.T.O. enabled
	P.T.O. enabled	
	Man-down function	Reset by pressing
	Man-down function, pump stopped	Restart the pump
	Microbulk unloading selected	
	Microbulk unloading active	Follow the filling instructions of the customer tank
	No Microbulk pump release	Flowcom has completed filling process, check flow rate during unloading process
	Parking brake applied (only on tractor with controller V320 or higher)	Icon is hidden when cryogenic pump is enabled
	Parking brake not applied (only on tractor with controller V320 or higher)	Danger! Pump operates only when the parking brake is applied.
	Hydraulic oil temperature warning (only on tractor with controller V320 or higher)	Check hydraulic oil cooler fan
	Yellow warning; emergency mode enabled	Visit workshop
	Red warning; controller is locked after emergency mode or serious fault.	Visit workshop
	Hydraulic oil level warning (only on tractor with controller V320 or higher)	Add hydraulic oil on next occasion
	Cryogenic pump cavitation warning	Strong pressure or speed surges in the system, check valve position/inflow
	Emergency mode active warning, this icon alternates with the selected output step	Attention, pump output is limited. Emergency mode is enabled; number of pumping operations is limited.

Fault codes / Fault messages			
Code	Meaning	Code	Meaning
01	Pressure sensor short-circuit	19	HY motor fuse pressure sensor cable break
02	Pressure sensor cable break	20	Controller blocked after emergency operation
03	Speed sensor defective	21	Emergency operation fault
04	Thermocouple measuring transf. short-circuit	22	Cryogenic pump pressure too high
05	Thermocouple measuring transf. line break	23	Cryogenic pump pressure sensor cable break
06	Thermocouple short-circuit/line break	24	Cryogenic pump pressure sensor line break
07	Cryogenic pump temperature rise too high		
08	Cryogenic pump shaft blocked/not turning	41	Hydraulic oil temperature too high
09	Hydromotor protection on turn-on	42	Hydraulic return filter soiled
10	Hydromotor protection in operation	43	Hydraulic leak oil filter soiled
11	Hydraulic motor leak monitoring	44	Hydraulic oil level too low
12	Motor speed too high	45	Servo-actuator short-circuit/line break
13	Torque/output too high	46	P.T.O. fault
14	Hydraulic pressure too high	47	Diesel engine actuation fault
15	Cavitation monitoring	48	Hydraulic pump zero discharge fault
16	Pump dry run monitoring	49	Hydraulic pump supply pressure low
17	Emergency stop palm button actuated	91	Truck electric voltage low
18	HY motor fuse pressure sensor short-circuit	92	CAN communication fault