





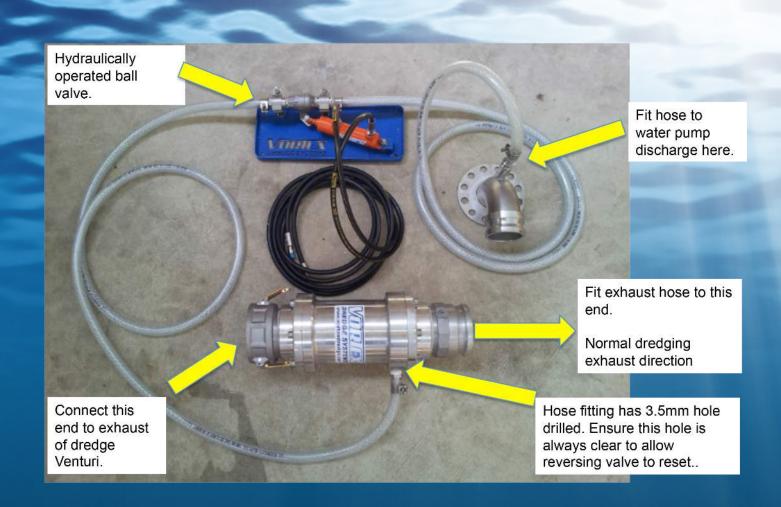
## Dredge Direction Reversing Valve.

## Product Description:

- Simple to retrofit to all Vortex 4 inch dredge systems via industry standard cam locks.
- This tool is designed to reverse the flow through the Venturi to clear the suction hose inlet nozzle in the event of debris blocking the inlet nozzle.
- Reversing valve Weight in air = 27 lb (12.5kg)
- Ball valve weight in air = 8.8lb (4 kg)
- Reversing valve dimensions = 13 inch (338 mm) long x 7 inch (182 mm) diameter.
- Hydraulic pressure required to operate ball valve = 34 to 206 bar (500 to 3000psi.)
- Depth rating 3000mtr plus
- Inside diameter = 4 inch (100mm)

## Operating instructions:

- Remove exhaust hose from Venturi. Connect Reversing valve to exhaust hose end of Venturi. Connect exhaust hose to male cam lock of Reversing valve. Ensure both the Venturi and reversing valve are securely mounted to ROV / fame.
- Install hose tail fitting into water pump outlet. Connect one end of ball valve water hose to water pump outlet fitting.
- Connect other end of ball valve water hose to reversing valve. NOTE: The hose tail fitting on the reversing valve has a 3.5mm hole drilled in it which bleeds off water pressure between ball valve and reversing valve to atmosphere to allow the reversing valve to reset. Always ensure this hole is clear from obstructions.
- Connect ball valve actuator hydraulic hoses to ROV. Preferably use a hydraulic valve with A and B to tank.
- The reversing valve uses the water pump pressure to energize and 'reverse' flow through the Venturi by opening flow through the ball valve to direct pressure from the water pump to the reversing valve. This enables the dredge to 'blow' water out of the suction nozzle.
- Closing the ball valve shuts off energizing water pressure to the reversing valve. The 3.45mm hole previously mentioned allows the reversing valve to reset and so resume normal dredging operations.



## Inventory and servicing.

- **Inventory:**
- 1 x 4 inch (100mm) dredge reversing valve.
- 1 x hydraulically operated ball valve ¾ inch (19mm).
- 2 X 206 bar (3000psi) -4 fjic female swivel hydraulic hoses at 3000mm long each.
- 2 x ¾ inch (19mm) water hose at 3000mm long each. 80 psi (5.5 bar) rated.
- 4 x hose clamps.
- Consumables to be replaced at clients cost:
- Cam locks.
- Reversing valve components.
- Water hoses.
- Servicing:
- Please return to supplier for servicing.
- If in doubt, please ask