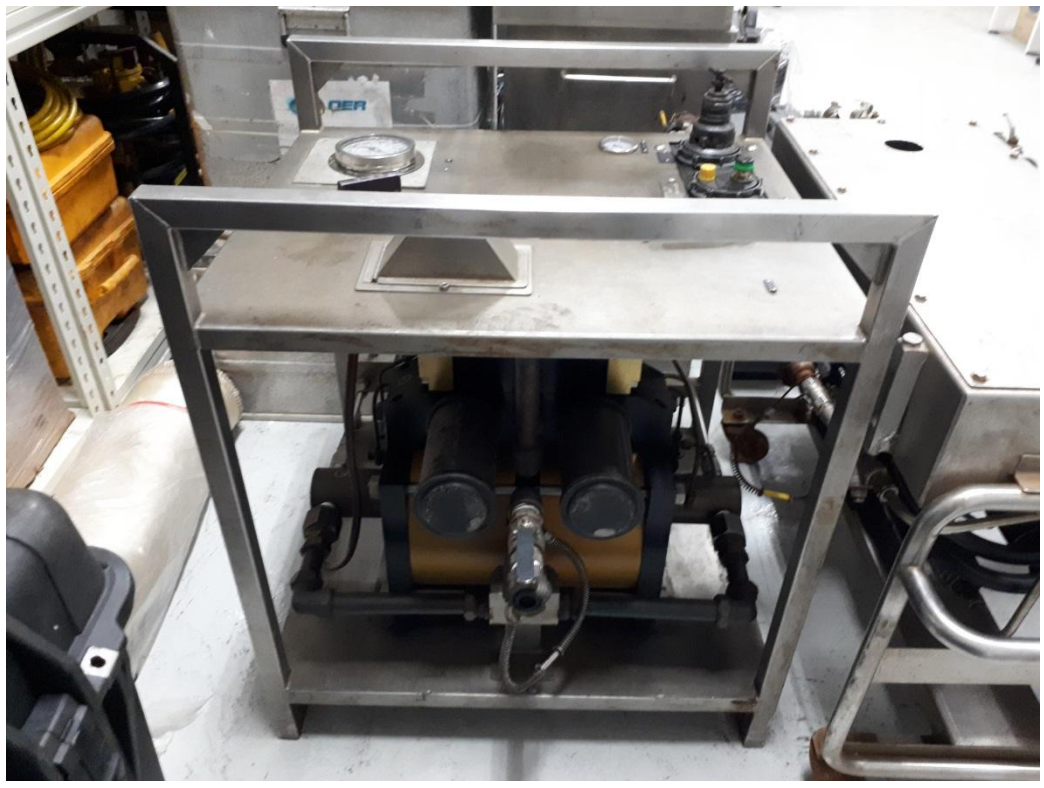

HYDRATON PUMP

Hydratron high pressure hydraulic pumps are double acting-type and driven by air. They are suitable for chemical injection, pressure testing, and hydraulic power. The output pressure and flow is infinitely variable. The pressure increase is made possible by means of the area ratio between the two larger diameter air drive pistons directly connected to two smaller diameter liquid plungers. The pumps can hold static pressure without any heat generation or power consumption.

DHDA 33 Pump Specifications	
Pump Model	DHDA-33
Output Per Cycle	0.256 L
Maximum Output Pressure	6728 psi (464 bar)
Maximum Volumetric Flow Rate	31 L/min
Maximum Air Supply Pressure	100 psi (7 bar)
Ratio	66 : 1
Air Consumption	200 scm (5664 Nl/min)
Hydraulic Inlet	1” NPT (F)
Air Inlet	¾” BSPP (F)
Dimension (L x W x H)	711.2 x 609.6 x 831.85 mm
Weight	112 kg (248 lbs)
No. of Unit	1 unit

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It is important to regularly review the list of critical spare parts of the equipment before each project. Common problems occur in these units during the operation include the leakage through seals. This pump has Air drive section and hydraulic section. The seals and O-rings on this section have to be carefully inspected for any wear or scratches. All parts removed for inspection should be washed in suitable greasing agent such as blue gold or equivalent.

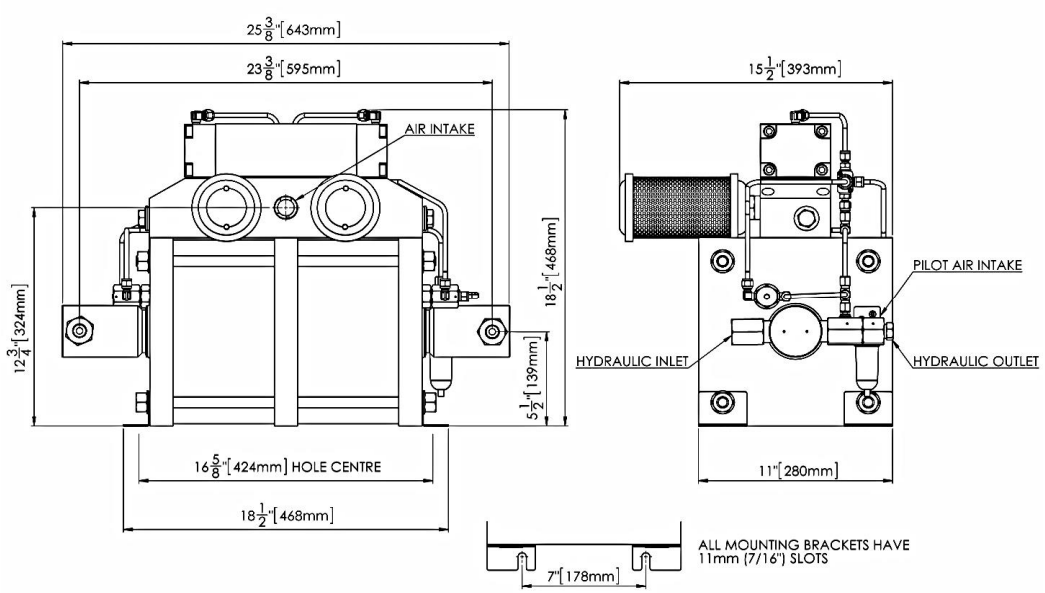
Where failures occur during operations Equipment bulletins will be issued to document the problem and the remediation solutions applied. The equipment bulletin will be circulated to all field engineers to be informed about the possible failure that can occur during the operation and thereby avoid future failure.

This equipment file remains a live document and will be constantly updated by the equipment department.

hydratron

SPECIALISING IN THE DESIGN, MANUFACTURE AND SUPPLY OF HIGH PRESSURE EQUIPMENT

General Layout Drawing Model – PU-DHDA33/4



Hydraulic Pressure Static/Stall Conditions

Air Pressure	Hydraulic Pressure
20psi (1.4bar)	1,346psi (93bar)
40psi (2.8bar)	2,692psi (186bar)
60psi (4bar)	4,036psi (278bar)
80psi (5.5bar)	5,382psi (371bar)
100psi (7bar)	6,728psi (464bar)

Flow Curve