

# **AQUA ENERGY DL ULTRA HIGH**

## **PRESSURE PUMP**

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### **PUMP SPECIFICATIONS**

**Rated Horsepower** -----105

**Number of cylinders** -----3

**Plunger Stroke** -----mm60

**Oil Capacity** -----lt 10

**Plunger dia**-----12 to 16  
mm

**Pump Weight** -----Kg 280

#### **FLUID END**

**FLUID HEAD** - Special high resistance stainless steel.

**VALVES & SEATS** – Valves made in stainless steel and bronze seats.

**PLUNGERS** - Solid ceramic plungers.

**PACKING** – Pressure Packing internal cooling system.  
Double pressure packings

**LUBRICATION** - Plungers and Packing lubricated by water supply with water spill venting.

#### **POWER END**

**POWER FRAME** - High strength cast iron.

**CRANKSHAFT** - Hardened and tempered alloy steel.

**CRANKSHAFT BEARINGS** - Double roller rim.

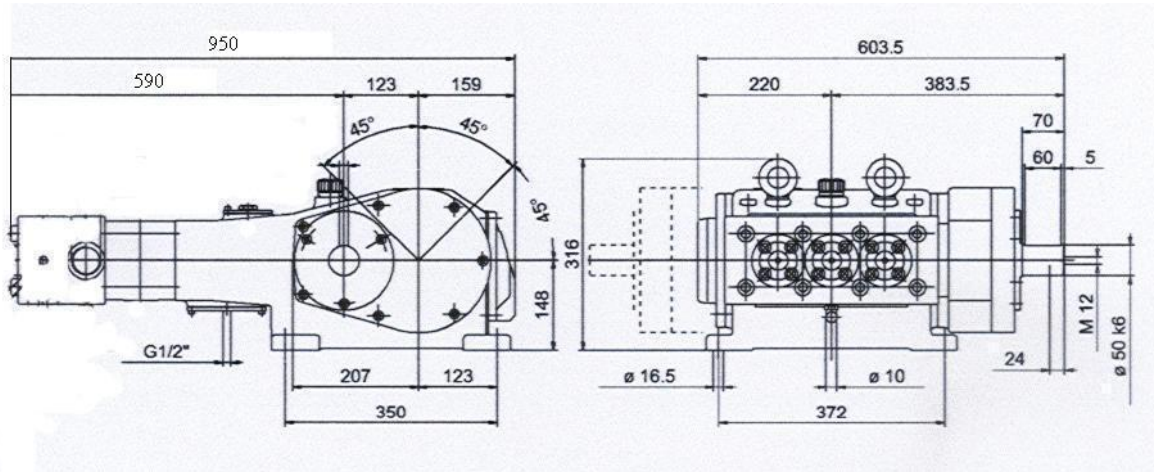
**CONNECTING RODS** - Surface treated spheroidal cast Iron.

**REDUCTION GEAR** - Internal 3.389:1 or 2.95: 1 reduction ratio gear from either side of pump.

**LUBRICATION** – Power end parts and gearbox are splash lubricated by oil in crankshaft reservoir.

# MODEL: DL-100 UHP

## Dimensions:



### DL-100 PUMP:

Maximum design pressure: **3,448bar** (50,000psi)  
 Maximum inlet pressure: **6 bar** (87.00 psi)  
 Minimum inlet pressure: **3 bar** (43.50 psi)

**Standard connections:** Suction ----- G 3/4"  
 Discharge ----- 9/16" AE HP

**Weight 284 Kg**

## Table of pump pressures:

MODEL	GEAR REDUCER RATE	PLUNGER DIA.	PRESSURE (psi / bar)	FLOW RATE (gpm / lpm)	MOTOR SPEED (rpm)	PUMP SPEED (rpm)
DL-100-40	2.034	12	40,000 / 2,760	4.0 / 15.0	1500	738
DL-100-30		14.26	29,000 / 2,000	5.6 / 21.4	1500	619
DL-100-20		16	22,000 / 1,500	7.0 / 26.5	1500	738
DL-100-50	2.423	12	50,000 / 3,450	3.3 / 12.5	1500	619
DL-100-40		12	40,000 / 2,760	4.0 / 15.0	1800	743
DL-100-30		14.26	36,000 / 2,500	4.5 / 17.0	1800	592
DL-100-30		14.26	29,000 / 2,000	5.6 / 21.4	1800	592
DL-100-20	3.04	16	22,000 / 1,500	7.1 / 26.9	1800	743
DL-100-50		12	50,000 / 3,450	3.1 / 11.7	1800	592
DL-100-40		12	40,000 / 2,760	3.9 / 14.7	2200	725
DL-100-30		14.26	29,000 / 2,000	5.6 / 21.4	2200	725
DL-100-20		16	22,000 / 1,500	6.9 / 26.0	2200	725

Performance refers to theoretical delivery with 100% volumetric efficiency.  
 Under normal operating conditions, pump volumetric efficiency is over 95%.  
 Please contact our technical staff in case continuous and heavy-duty, or special applications.

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