

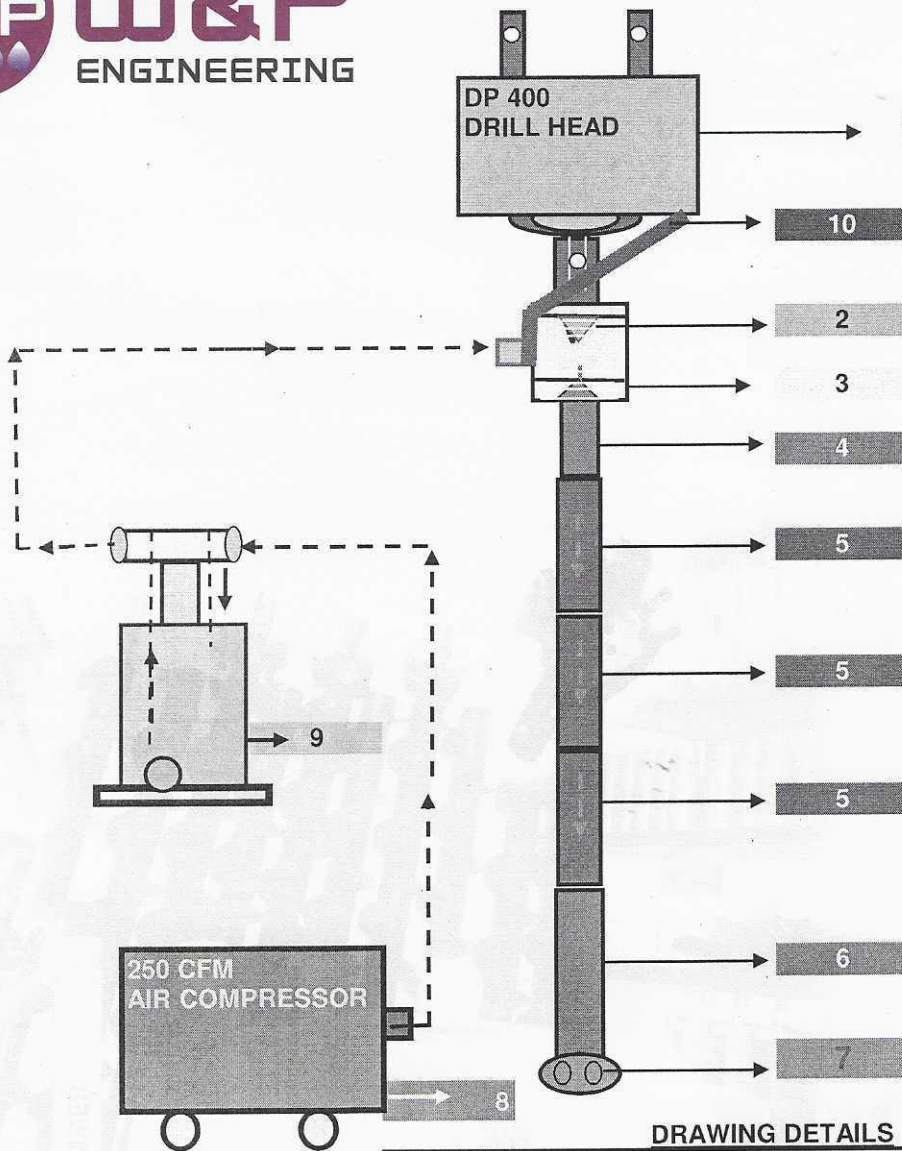
METHOD OF PNEUMATIC HAMMER SYSTEM.

- 1) We required minimum 250CFM Air Compressor. This Hammer required 10 bar Air pressure to work.
- 2) From Air Compressor air will go to Oil Lubricator. This oil and Air mixture is giving lubrication for the DTH Hammer.
- 3) Drill tube is 89mm Diameter and Cutting bit is 127mm Diameter.
- 4) After the hammering the powder will come out between this gap. $127-89=36\text{mm}$.
- 5) From Lubricator Air will go to Air Swivel and from there Air will go to Hammer through Drill tube. In the Hammer 127mm Cutter Bit will fit. On that Cutter bit 2 No's opening is and incoming air will come out from Cutter bit hole with pressure. This Air pressure is blowing out crushed rock powder.
- 6) We need 2 No's Air hose . 1) 3 Mtr length will use from Air Compressor to Lubricator.
2) 20 Mtr length hose will connect from Lubricator to Air Swivel. We can drill up to 6 Mtr in 15 minutes.
- 7) This system we can install in DP400 Drill Head. Instead of Auger and Cutter Head here we will use Drill tube and Hammer with Cutter Bit.

METHOD OF LUBRICATOR SYSTEM.

- 1) Oil tank capacity is 10 Ltr.
- 2) Air relief valve is fitted to top of the Oiler. Valve capacity is 10 Bar. If more than 10 Bar Air pressure is carrying to tank automatically valve will open and release the excessive air pressure for safety of the Air Tank (Oiler).
- 3) From intake of Air from the Compressor to Tank very small volume of air will enter to Top of the Oil Tank and that Air pressure is pushing Down the Oil and that Oil is mixing with Air for Lubrication of the DTH Hammer.
- 4) This is the way how the Lubricator is functioning.





DRAWING DETAILS

1	DRILL HEAD	150 - 470
2	TOP ADAPTOR	150 - 303
3	AIR SWIVEL	150 - 206
4	BOTTOM ADAPTOR	150 - 300
5	DRILL TUBE	150 - 517
6	4" HAMMER	150 - 201
7	CUTTER BIT 127 mm	150 - 203
8	AIR COMPRESSOR - 250 CFM	250 CFM
9	LUBRICATOR	150 - 205
10	LOCKING CHAIN	***

OIL 20/50 PETROL ENGINE OIL

