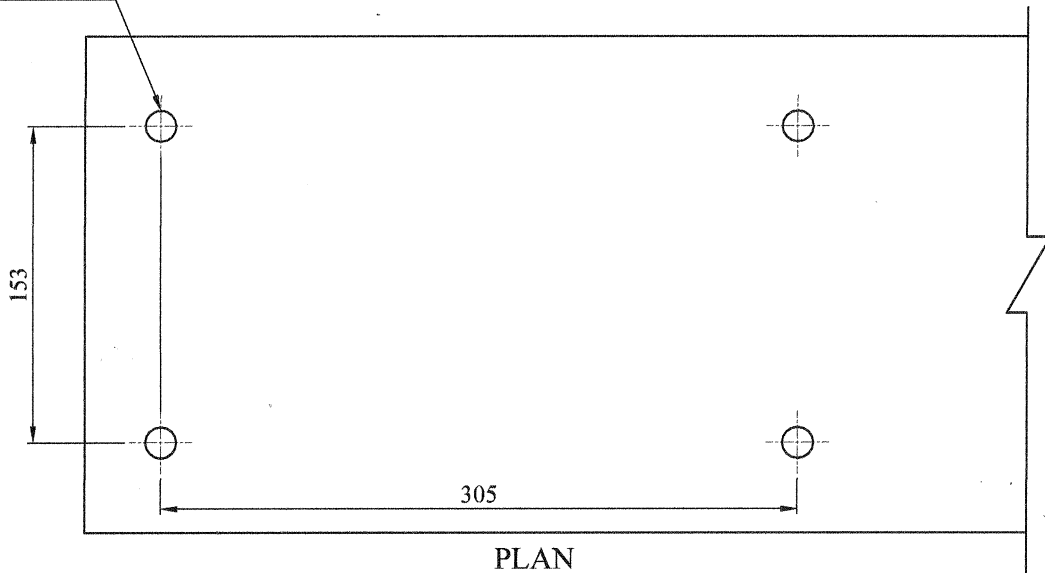
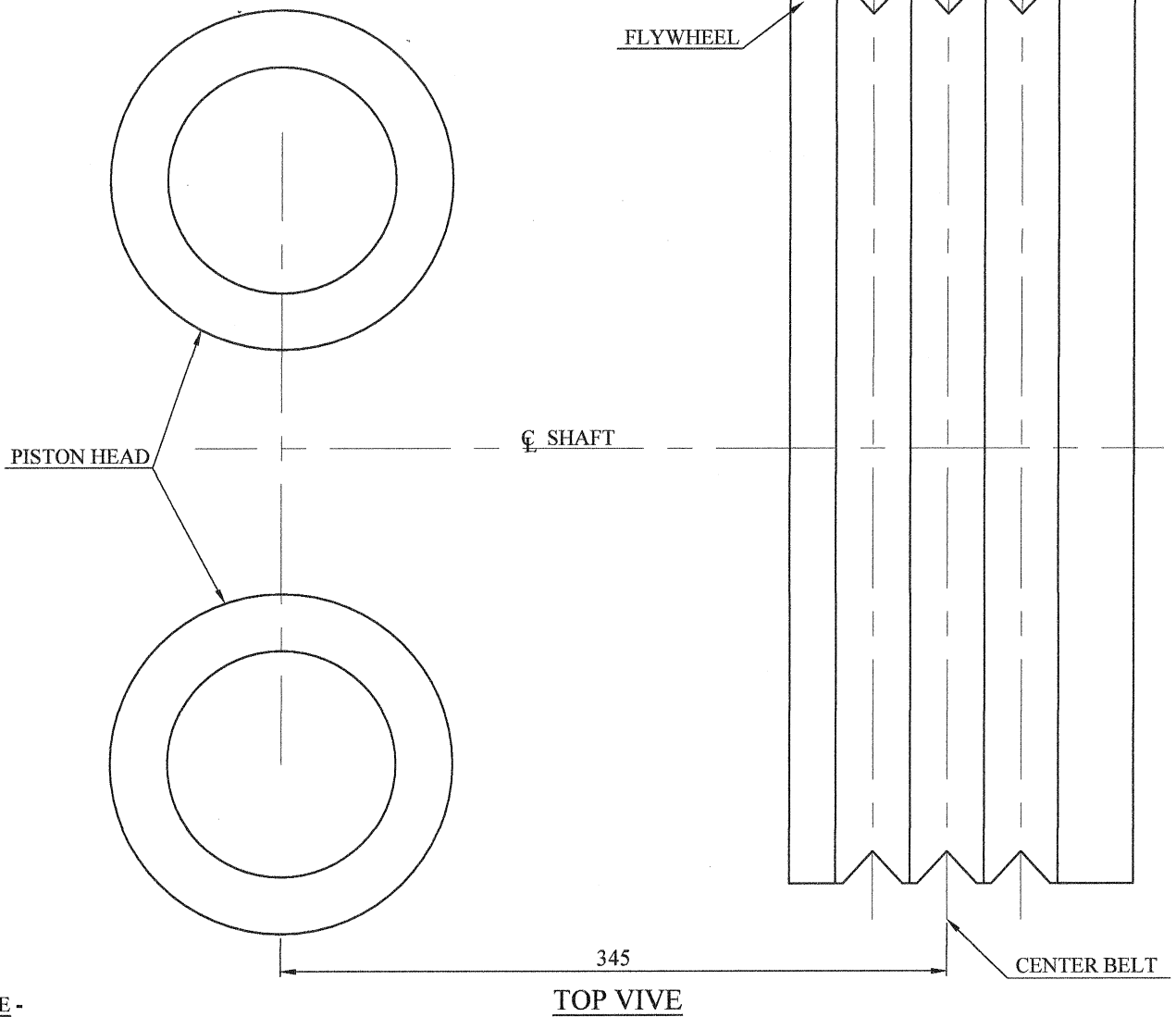


15-K1A (DIMENSIONS DRAWING)

4NoS. Ø15HOLES



PLAN
(COMPRESSOR BOLTING DETAIL)



NOTE -

* ALL DIMENSIONS ARE IN "mm"

TOP VIVE

UOP

Process Division • UOP Inc.

20 UOP Plaza - Algonquin & Mt. Prospect Roads • Des Plaines, Illinois 60016 • U.S.A.

PROJECT SPECIFICATION

NUMBER REVISION

7775 - 509 - 1

SHEET 1 OF 3

BY *MJM* APP'D *EFH*

DATE 10/26/78

RECIPROCATING COMPRESSORS AND DRIVERS

UOP MEROX PROCESS UNIT - AIR COMPRESSORS

ITEM OPERATING 15"-K1A

ITEM SPARING 15"-K1B

Suitable direct driven electric motor driven two stage, air cooled compressors, each complete with air filter, intake muffler, unloader, coupling, base plate and explosion-proof pressure switch for automatic unloading under constant speed operation. Provide relief valve for each compressor. (*VENDOR MAY OFFER AUTOMATIC START-STOP OPERATION*)

Compressor speed shall not exceed 900 RPM (600 RPM preferred). If motor reducer is used, gears with 2.0 service factor shall be furnished. Belt drive is not desired. Machine design, including valve selection, must be suitable for long term continuous operation. Capacity requirement below includes sufficient overage to allow unloaded operation approximately 50% of the time.

Each compressor shall be suitable for handling air at not less than the following conditions:

Capacity at Inlet Conditions	-	34 m ³ /HR (20 CFM)
Suction Pressure (before filter)	-	Atmospheric
Suction Temperature, °C	-	38 (100 °F)
① Discharge Pressure, PSIG barg	-	9.0 (130 PSIG)
Compressor Ratio (Total)	-	9.5
Actual Capacity Delivered, CFM	-	*
Piston Displacement, CFM	-	*
Speed, RPM	-	*
Estimated, HP	-	*

Elevation of plant site approximately 26.2m feet above sea level. Normal Barometer 1.01 bar abs. (14.65 PSIA)

*Vendor to advise.

AIR RECEIVER

Provide standard industrial type air receiver designed for not less than 12 barg pressure, with support legs, code stamp, relief valve, pressure gauge, and drain valve. (74 PSIG)

AFTERCOOLER AND MOISTURE TRAP (Water Cooled)

Provide one aftercooler with moisture trap.

Cooling tower water is available at 72.2°C and 3.1 barg (90 °F) (45 PSIG). Outlet temperature shall not exceed 73.3°C. Cool air to 39°C. Design pressure for water side of aftercooler to be 6.9 barg. (100 PSIG)

① Provide a pressure gauge with 4" diameter dial and pulsation dampener on discharge line of each compressor.

- Axial valve shown not required
- Pulley

No use whatsoever shall be made of this data or of any copies made therefrom other than as specifically permitted by the terms of the engineering agreement dated July 28, 1978 between UOP Process Division and Ceylon Petroleum Corporation

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