

Recommended Oils for Gear Box Side

(Specifications of oil : Flash P COC, °C: 240, Pour Point °C: -6, K.V. cSt: 152.2 @ 40 °C and 14.8 @ 100 °C, VI:96)

M/s. Hindustan Petroleum	ENKLO - 85
M/s. Caltex	REGAL OIL 'G'
M/s. I.O.C.	SERVO SYSTEM 533 / 68 SERVOSYSTEM HLP 68
M/S. Bharat Petroleum	CABOL 150
Castrol	HYSPIN EP 150
Shell	TELLUS 150 / 320
Kluber Lubrication (Food grade)	Kluberoil 4 UH1 N Series- 150 cst and 320 cst

RECOMMENDED OILS FOR HYDRAULIC SYSTEM OF DIAPHRAGM PUMPS:

(Specifications of oil : Flash P COC, °C: 196, Pour Point °C: -9, K.V. cSt: 36.1 @ 40 °C and 5.9 @ 100 °C, VI: 196)

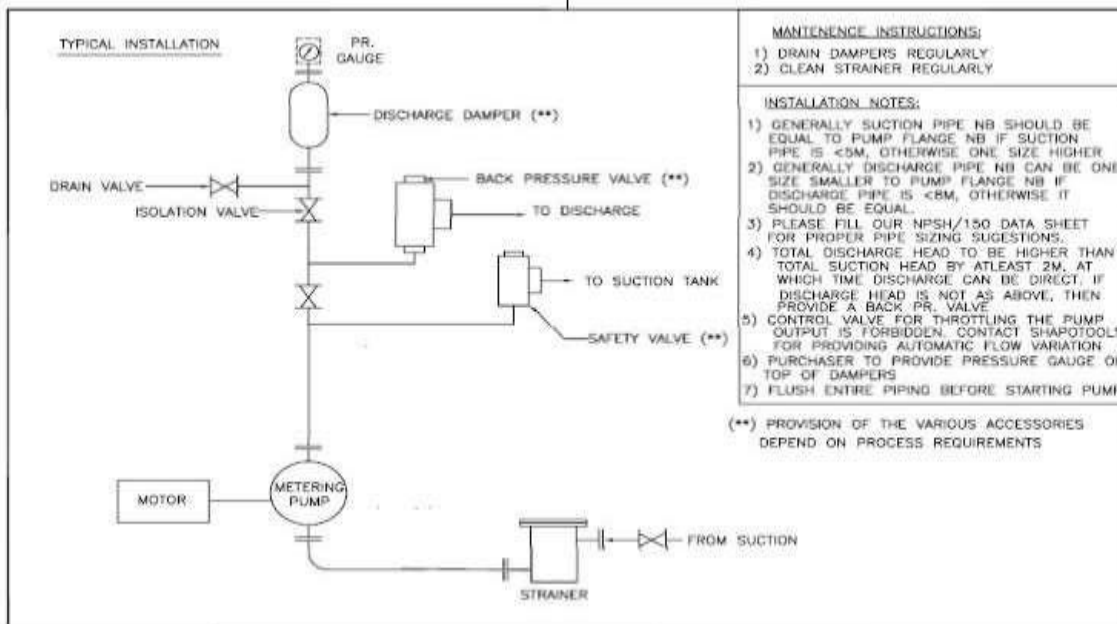
M/s. Hindustan Petroleum	Enklo - 44
M/s. Caltex	Regal Oil 'AA'
M/s. I.O.C.	Servo System 311 / 32. Servosystem HLP 32
M/S. Bharat Petroleum	Hydrol - 37
Castrol	Hyspin EP 32
Shell	Tellus 37 / 22
Kluber Lubrication (Food grade)	Kluberfood 4 NH1-32

Note : for Molten Phosphorus use Liquid paraffin/silicon oil for Hyd. Side.

APPROXIMATE QUANTITY OF LUBRICANTS REQUIRED FOR GEAR BOX:

Model DP/12	0.25 Litres	Model DP/60	3.0 Litres
Model DP/20	0.6Litres	Model DP/90	9.0 Litres
Model DP/30	1.2 Litres	Model DP/70/II	9.0 Litres
Model DP/45	2.5 Litres	Model DP/1.8 & DP/3	0.29 Litres

FREQUENCY : "6.4 After the first 200 hours change the gear box oil. The next oil change is to be schedule after every 2000 hours operation."



	SHAPOTOOLS	DATA SHEET	MADE BY : Lavina DATE :
	BAJSONS INDUSTRIAL ESTATE, CHAKALA ROAD, ANDHERI (E), MUMBALI-99	DATA/NPSH/150 SHEET 1 OF 1	CHK. BY : <i>SMC</i> DATE :
PURCHASER M/S.			
1. PO NO.	2. ITEM NO.	DATE:	
2. CAPACITY (LPH)	4. PRESSURE (KG/CM ²)	AUTH. BY	CHK. BY
5. OFFER NO.—	6. MODEL	MADE BY	
7. SPM:	8. M.O.C. (WET)		

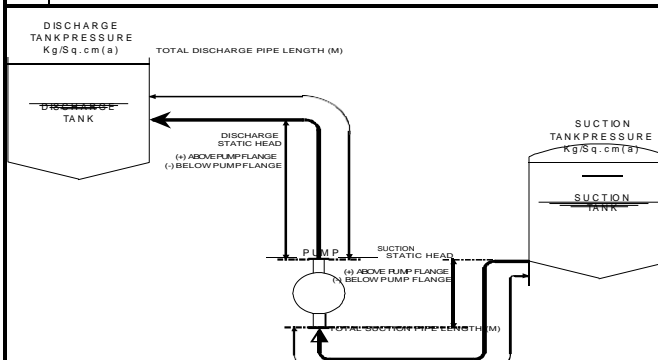
THE FOLLOWING INFORMATION IS TO BE PROVIDED BY THE PURCHASER

LIQUID SPECIFICATIONS (Purchaser to specify)

9. LIQUID PUMPED :	10. VISCOSITY AT P.T. (CP/SSU.)
11. P.T. (°C) 30	12. BOILING POINT (°C)
13. VAPOR PR. AT P.T. (m.m. of Hg.)	14. SP.GR. AT P.T.
15. CORROSION CAUSED BY	16a SOLIDS PRESENT (YES / NO)
16b PARTICLE SIZE / CONCENTRATION	16c ABRASIVE NATURE OF PARTICLE (YES / NO)

SUCTION & DISCHARGE CONDITIONS (Purchaser to specify)

CONDITIONS				SUCTION			DISCHARGE		
17.	PRESSURE IN TANK (KG/Cm ² a)								
18.	STATIC HEAD ABOVE PUMP FLANGE (MLC)				(+/-)			(+/-)	
19.	TOTAL LENGTH OF PIPE (M)								
20.	PIPE NOMINAL BORE								
21.	STRAINER PROVIDED (YES / NO)								
22.	BACK PRESSURE VALVE PROVIDED (YES/NO)				N.A.				
23.	RELIEF VALVE SET PRESSURE (KG/Cm ² g)				N.A.				
24.	PULSATION DAMPER PROVIDED (YES / NO) / VOLUME (LIT)				/			/	
25.	SUCT. FITTING	SIZE	QTY	EQUIV. LG. (M)	DISCH. FITTING	SIZE	QTY	EQUIV. LG (M)	
	ELBOW								
	TEE								
26.	NPSHA (MLC)								
27.	REMARKS								



NOTES:

- Discharge head to be higher than suction head by atleast 2 mt.
- Control valve on disch. side for throttling the pump output is forbidden.
- Purchaser to provide Pressure Gauge on discharge side of pump immediately after pump discharge flange before any other valve.

It is imperative that suction line should be atleast one size higher than pump suction flange NB (assuming suction pipe length is nominal). If this not implement pump will not perform correctly and can even result in serious damage because of cavitation.