



DP CLEAN: 0.2-0.3 BAR
 DP DIRTY: 1 BAR

Please delete
 Change over
 valve. please
 recheck vs PID

Please specify
 line size

Please specify
 line size

Please delete oil
 TCV

- NOTES:**
- 1 Pump assembly supplied by MAYEKAWA includes the regulator
 - 2 Manual valve shall be used during startup. During operation valve shall be closed.
 - 3 For operation P and T, refer to Table

Comp. Oil Flow: 53.2 Lpm
 14.1 GPM

STREAM	Unit	50	51	52
Vapour Fraction		0.00	0.00	0.00
Temperature	C	68.60	50.00	50.00
Pressure	bara	20.29	19.79	21.29
Mass Flow	kg/h	53.20	53.20	53.20
Volume	lpm	615.65	582.16	582.16
Heat Flow	kW	500	500	500
Component(s)		OIL	OIL	OIL
MW	kg/kgmol	-	-	-
Cp		-	-	-
Z Factor		-	-	-
Density	kg/m3	1005.00	1005.00	1005.00
Viscosity	cp	12.00	12.00	12.00

STREAM	Unit	1	2	3	4	5	6	7	8	30	31
Vapour Fraction		1.00	1.00	1.0000	1.0000	0.0000	0.0000	0.4308	1.0000	0.0000	0.0000
Temperature	C	-0.16	68.60	68.58	68.58	56.48	56.48	0.88	-0.01	15.20	5.00
Pressure	bara	4.65	20.29	20.28	20.28	19.76	19.76	4.86	4.72	5.00	4.80
Mass Flow	kg/h	2,808.00	6,010.20	2,808.00	2,808.00	2,808.00	2,808.00	2,808.00	2,808.00	36,929.76	36,929.76
Heat Flow	kW	-1,894.90	-1,832.00	-1,832.00	-1,832.00	-2,061.10	-2,061.10	-2,061.10	-1,894.00	-	-
Component(s)		PROPANE	PROPANE & OIL	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	PROPANE	STYRENE IN	STYRENE OUT
MW	kg/kgmol	44.096	-	44.096	44.096	44.096	44.096	44.096	44.096	-	-
Cp/Cv		1.2189	-	1.3823	1.3823	-	-	-	-	-	-
Z Factor		0.8951	-	0.7256	0.7256	-	-	-	-	-	-
Density	kg/m3	10.11	-	43.38	43.38	436.70	436.70	-	10.27	909.60	918.00
Viscosity	cp	0.0078	-	0.0106	0.0106	0.0690	0.0590	-	0.0078	0.82	0.96

Client: ENER TEKNOLOJI
 P. O. No.: PO-ENER-MME-2024-100-002
 Project: DELTA
 Service: REFRIGERATION PACKAGE
 Location: IRAQ
 Job No.: MPG009
 Unit Item Number
 Compressor Model: 160V
 Refrigerant: PROPANE

REVISION	DATE	DESCRIPTION
1	4/2/2024	Issued for Approval
0	3/7/2024	Issued for Approval

BY: Vendor 2
 APP Vendor 1 PFD
 DATE: 4/2/2024 DWG: MPG009-20085 REV 1