



Gachsaran Polymer Industries Company HDPE Plant
Oil pump Coupling Datasheet



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Page 3 of 3

| EQUIPMENT | | | | | | | |
|-----------|------------|-------------------------|-------|---|--|---------------------------------|-----------------------------------|
| ROW | TAG NO. | DESCRIPTION | Q, TY | TECHNICAL DATA | MATERIAL | DESIGN TEMPERATURE (°C) | DESIGN PRESSURE (barg) |
| 1 | C-6101 A/B | Screw Compressor | 2 | Type= Screw Rated Flow= 27463 kg/h DP= 17.64 bar, Outlet Pressure= 20.2 bara BHP= 1098 kW, Power= 1250 kW | Casing= Low Temp Cast Steel (weldable) JIS G5152, SPCL1 Shaft= Cr-Mo Steel Forging JIS G3221, SFCM 930S | -28.89/120 | 23 |
| 2 | D-6101 | Oil Separator | 1 | OD x T.L T.L = 1371.6 x 3556.1 mm Operating Condition= 77.1 °C , 20.2 bara | Body= SA-516 GR70N | -45/125 | 25 + F.V |
| 3 | D-6102 | Liquid Receiver | 1 | OD x T.L T.L = 914.4 x 7112 mm Operating Condition= 47.62 °C , 19.65 bara | Body= SA-516 GR70N | -45/125 | 25 + F.V |
| 4 | E-6101 | Evaporator | 1 | Tema Type= BKU ID x L= 1168/1553 x 6096 mm, Area Per Shell= 549.6 m ² Heat Duty= 1759.3 kW, Tube No.= 541U | Shell= SA-516 GR70N Tube= SA-334 GR6 | Shell= -45/125 Tube= -45/125 | Shell= 25 + F.V Tube= 25 + F.V |
| 5 | E-6102 | Oil Cooler | 1 | Tema Type= AEU ID x L= 356 x 4387.85 mm, Area Per Shell= 36.9 m ² Heat Duty= 366.2 kW, Tube No.= 69U | Shell= SA-516 GR70N Tube= SA-179 | Shell= -29/125 Tube= -29/190 | Shell= 28 + F.V Tube= 28 |
| 6 | E-6103 | Economizer | 1 | Tema Type= BEN ID x L= 381 x 2438.4 mm, Area Per Shell= 25.4 m ² Heat Duty= 394.9 kW, Tube No.= 180 | Shell= SA-516 GR70N Tube= SA-334 GR6 | Shell= -45/125 Tube= -45/125 | Shell= 25 + F.V Tube= 25 + F.V |
| 7 | E-6104 | Condenser | 1 | Tema Type= BJM ID x L= 1070 x 6000 mm, Area Per Shell= 557.3 m ² Heat Duty= 2626.9 kW, Tube No.= 1598 | Shell= SA-516 GR70N Tube= SA-334 GR6 | Shell= -45/120 Tube= -29/190 | Shell= 25 + F.V Tube= 28 |
| 8 | EH-6101 | Oil Heater | 1 | ID x SM-SM = 1371.6 x 3332 mm Operating Condition= 77.7 °C , 19 barg Heating Capacity= 9 kW | 304 SS | 125 | 25 + F.V |
| 9 | F-6101 A/B | Oil Filter | 2 | Type= Cartridge OD x T.L T.L = 12" x 914.4 mm | Body= ASTM A312 Gr. 304L Element= Fiber / Stainless Steel | -28.9/121.1 | 28 + F.V |
| 10 | F-6102 | Ppropylene Filter/Dryer | 1 | Type= Molecular Sieve OD x T.L T.L = 14" x 1016 mm | Body= SA-516 GR70N Element= Stainless Steel | -45/125 | 25.5 + F.V |
| 11 | P-6101 A/B | Oil Pump | 2 | Type= Twin Screw Rated Flow= 241 LPM DP= 3.5, Outlet Pressure= 22.6 barg BHP= 5.1 kW, Power= 11 kW | Casing= Spheroidal Graphite Iron JIS G5501, FC300 End Plates= Spheroidal Graphite Iron JIS G5501, FC300 | 125 | 28 |