



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Line List

Document No. 17735-61

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Line List (K020)**

code-2
M. Vakili

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
02	08-01-2024	Issued for Approval	S.K.	S.K.	J.J.
01	19-12-2023	Issued for Approval	S.K.	S.K.	J.J.

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Line no.	Line description	P&ID Number	Line size	Schedule	Ends Note 7	Pipe material Note-2	Flange as per ASME B16.5	Flange Material Note-2	Operating pressure Max.	Operating temperature	Design temp.	Insulation	Tie in Point	
P&ID for High Pressure Air Compressor K020														
1"-IA-320-01-D42-N	Package inlet	N278-VD-6019-PR-PID-0002	1"	S-40S	BE	SS316L	300#	ASTM A182	9,5 bar(g)	12,5 bar(g)	46°C	75°C	Not Insulated	TP-8201
1"-IA-320-02-D42-N	1st stage suction	N278-VD-6019-PR-PID-0002	1"	S-40S	BE	SS316L	300#	ASTM A182	9,5 bar(g)	12,5 bar(g)	46°C	75°C	Not Insulated	N/A
3/4"-IA-320-03-F42-H	1st stage discharge	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	600#	ASTM A182	9,5 bar(g)	12,5 bar(g)	46°C	75°C	Hot Insulated	N/A
3/4"-IA-320-04-F42-H	1st stage discharge	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	600#	ASTM A182	23,3 bar(g)	30,5 bar(g)	46°C	185°C	Hot Insulated	N/A
3/4"-IA-320-05-D42-N	2nd stage suction	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	300#	ASTM A182	23,3 bar(g)	30,5 bar(g)	157°C	175°C	Not Insulated	N/A
3/4"-IA-320-06-F42-H	2nd stage discharge	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	600#	ASTM A182	22,1 bar(g)	39 bar(g)	60°C	175°C	Hot Insulated	N/A
3/4"-IA-320-07-F42-H	2nd stage discharge	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	600#	ASTM A182	30 bar(g)	39 bar(g)	60°C	175°C	Hot Insulated	N/A
4"-IA-320-08-D42-N	Package outlet	N278-VD-6019-PR-PID-0002	4"	S-40S	BE	SS316L	300#	ASTM A182	30 bar(g)	39 bar(g)	60°C	75°C	Not Insulated	N/A
3/4"-IA-320-09-D42-N	Package outlet	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	300#	ASTM A182	30 bar(g)	39 bar(g)	60°C	75°C	Not Insulated	N/A
3/4"-IA-320-10-D42-N	Package outlet	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	300#	ASTM A182	30 bar(g)	39 bar(g)	60°C	75°C	Not Insulated	TP-8202
3/4"-IA-320-11-D42-N	Bypass	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	SS316L	300#	ASTM A182	40 bar(g)	60°C	75°C	Not Insulated	TP-8202	
P&ID for High Pressure Air Compressor K020 water system														
3/4"-CWS-320-20-B24C-N	Cooling water inlet	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	CS	150#	ASTM A 105	6 bar(g)	6 bar(g)	36°C	55°C	Not Insulated	TP-8203
3/4"-CWS-320-21-B24C-N	Cooling water inlet	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	CS	150#	ASTM A 105	4,5 bar(g)	6 bar(g)	36°C	55°C	Not Insulated	N/A
4"-CWR-320-22-B24C-N	Cooling water outlet	N278-VD-6019-PR-PID-0002	4"	S-10S	BE	CS	150#	ASTM A 105	5 bar(g)	7 bar(g)	46°C	65°C	Not Insulated	N/A
3/4"-CWS-320-23-B24C-N	Cooling water inlet	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	CS	150#	ASTM A 105	4,5 bar(g)	6 bar(g)	36°C	55°C	Not Insulated	N/A
4"-CWR-320-24-B24C-N	Cooling water outlet	N278-VD-6019-PR-PID-0002	4"	S-10S	BE	CS	150#	ASTM A 105	5 bar(g)	7 bar(g)	46°C	65°C	Not Insulated	N/A
3/4"-CWR-320-25-B24C-N	Cooling water outlet	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	CS	150#	ASTM A 105	5 bar(g)	7 bar(g)	46°C	65°C	Not Insulated	N/A
3/4"-CWR-320-26-B24C-N	Cooling water outlet	N278-VD-6019-PR-PID-0002	3/4"	S-40S	BE	CS	150#	ASTM A 105	5 bar(g)	7 bar(g)	46°C	65°C	Not Insulated	TP-8204

Operating & Design condition shall be revised. this line is at the discharge of 1st stage compressor

Requirement of hot insulation shall be clarified

116 °C (maximum operating temperature of exchanger upstream shall be considered as design temperature of down stream section).

75°C (minimum design temperature shall be considered as 75 °C)

- Notes:
- 1.) pipe class will be followed for all component mentioned like, tem NPS, Rating, Schedule, Type, Specification Notes, NIPPLES ,FITTINGS - threaded & Butt Welded ,Caps, elbows, Tees ,Couplings ,Plug, Unions, Swaged Nipples, Boss, Blinds , spectacle blinds, GASKETS, bolts / Fasteners , valves, etc.
 - 2.) All Components in water system are CS material and will externally painted (except for the valves which will be carbon steel and externally painted)
 - 3.) Corrosion allowance = 0 mm. Corrosion allowance watersystem= 3,2mm
 - 4.) Design code = ASME B31.3
 - 5.) Stress Relieving = Not applicable
 - 6.) Welding Spec : N278-000-PI-JSS-1300-009
 - 7.) BE = Beveled Ends (for pipe)
 - 8.) Valve body material with ASTM A105 shall be supplied in Normalized condition

below items shall be added to line list:

1. paint code
2. NDT
3. test pressure
4. test media

According to the vendor PID TP-8202 is related to this line ,please check.