

CRYOGENIC LIN / LOX / LAR AIR GAS STORAGE TANKS

DESIGN CODE	EN 13530 - ADR
MAX. ALLOWABLE WORKING PRESSURE	3 bar / 16 bar
DESIGN TEMPERATURE	-196°C
INNER VESSEL MATERIAL	Stainless Steel (According to EN 10028-7)
OUTER VESSEL MATERIAL	Carbon Steel (According to EN 10025/ EN10028-3)
INSULATION	Super Insulation & Vacuum

HIGH PRESSURE SERIES AIR GAS TRANSPORT TANK

		LOX	LOX	LOX	LOX
TANK VOLUME	lt	6500	9000	11500	14000
NET WATER CAPACITY	lt	6350	8900	11450	14040
TANK EMPTY WEIGHT	kg	4200	5020	6065	7490
LIQUID (0.5 barg)	kg	6800	9450	12160	14920

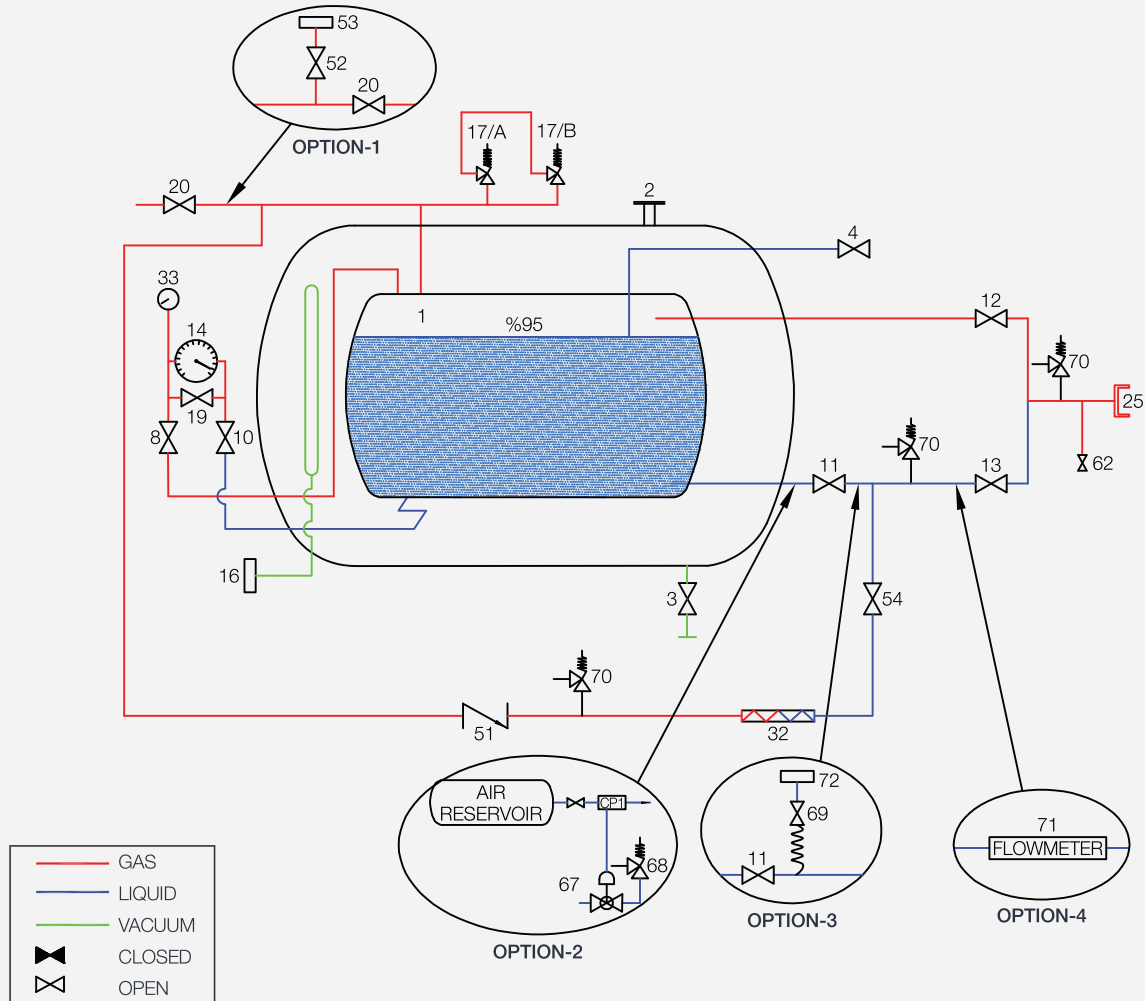
LOW PRESSURE SERIES AIR GAS TRANSPORT TANK

		LIN	LIN	LOX	LOX	LAR
TANK VOLUME	lt	33500	30000	24500	22000	18600
NET WATER CAPACITY	lt	33490	29800	24250	21780	18620
TANK EMPTY WEIGHT	kg	9800	10400	9250	9200	8800
LIQUID (0.5 barg)	kg	25200	22450	25750	23150	24200
TOTAL	kg	42000	39850	42000	39350	40000



CRYOGENIC LIN / LOX / LAR AIR GAS STORAGE TANKS

Air Gas Transport Tanks P&ID High Pressure Series

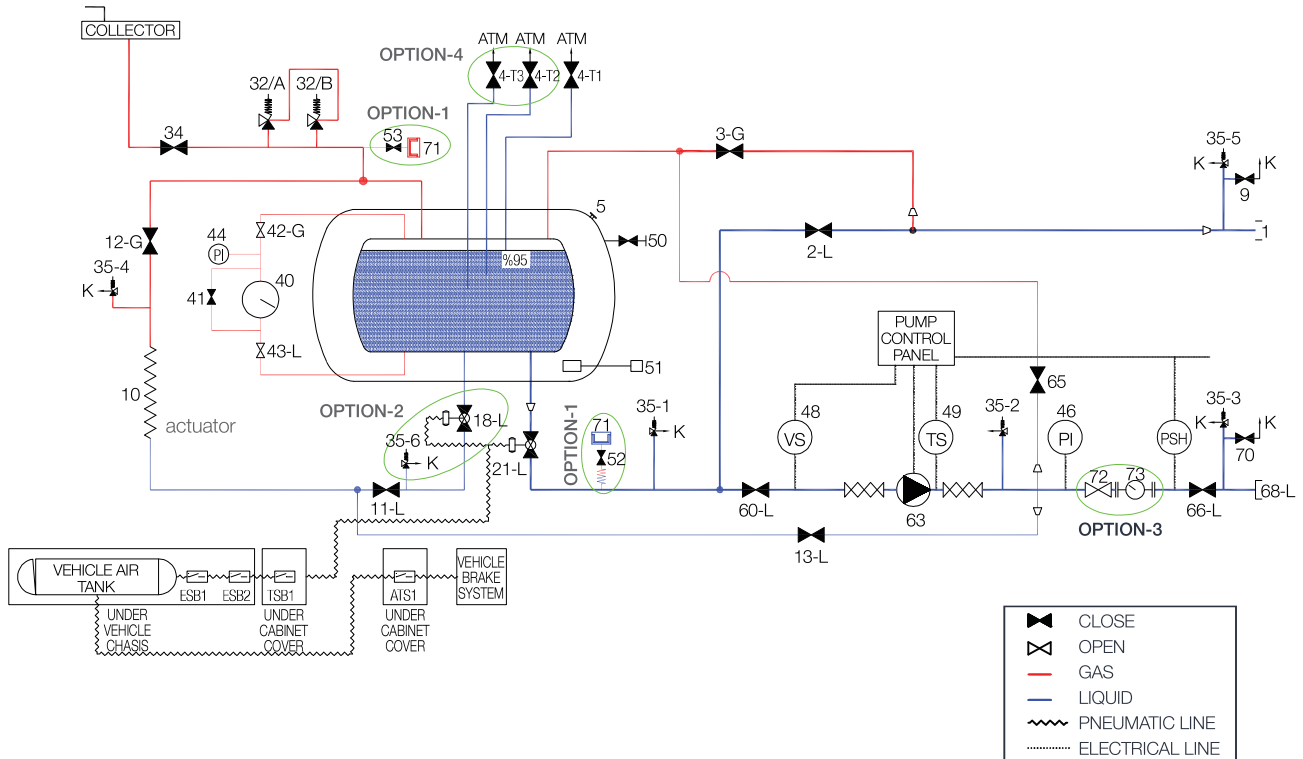


NOMENCLATURE

1	Jacketed pressure vessel	17/A	Inner vessel safety relief valve	Option-1	
2	Vacuum safety device	17/B	Inner vessel safety relief valve	52	Gas analysis valve
3	Evacuation valve	19	Equalizer valve	53	Gas analysis connection
4	Try cock valve	20	Vapor vent valve	Option-2	
8	Low pressure shut-off valve	25	Fill connection	67	Emergency shut-off valve
10	High pressure shut-off valve	32	Pressure building coil	68	Thermal relief valve
11	Bottom fill isolating valve	33	Pressure indicator	Option-3	
12	Top fill valve	51	Non-return valve	69	Liquid analysis valve
13	Bottom fill valve	54	Pressure build-up valve	72	Liquid analysis connection
14	Level indicator	62	Purge valve	Option-4	
16	Evacuation connection	70	Thermal relief valve	71	Flowmeter

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Air Gas Transport Tanks P&ID Low Pressure Series



"K" outlets will be connected to collector.

PNEUMATIC CONTROL SYSTEMS

ESB1 Emergency stop button
ESB2 Emergency stop button
TSB1 Transport cruising button
ATS1 Anti-tow away system

VACUUM CONNECTION

5 Vacuum safety device
50 Evacuation valve
51 Evacuation connection

INDICATOR (LEVEL, PRESSURE) LINE

40 Level indicator
41 Equalizere valve
42-G Low pressure shut-off valve
43-L High pressure shut-off valve
44 Pressure indicator
46 Pump pressure gauge
47 Pump high pressure switch
48 Pump vacuum switch
49 Temperature probe safety device

FILL LINE

1 Fill connection
2-L Bottom fill valve
3-G Top fill valve
4-T1 Try cock valve (%95)
4-T2 Try cock valve (optional)
4-T3 Try cock valve (optional)
9 Drain line valve
10 Pressure building coil
11-L Pressure build-up valve
12-G Vapor outlet valve PBC
13-L Pump PBC inlet valve
18-L Emergency shut-off valve (optional)
52 Liquid analysis valve (optional)
53 Gas analysis valve (optional)

CONSUMPTION LINE

21-L Emergency shut-off valve

SAFETY RELIEF LINE EQUIPMENTS

32/A Inner vessel safety relief valve
32/B Inner vessel safety relief valve
35-1 Thermal relief valve
35-2 Thermal relief valve
35-3 Thermal relief valve
35-4 Thermal relief valve
35-5 Thermal relief valve
35-6 Thermal relief valve (optional)
34 Vapor vent valve

PUMP SUCTION LINE

60-L Pump suction valve
63 Pump
65 Pump by-pass valve
66-L Pump outlet valve
68-L Pump outlet connection
70 Purge valve
71 Analysis adapter (optional)
72 Flowmeter isolating valve (optional)
73 Flowmeter (optional)