

STATIC TANKS FOR LNG STORAGE

HORIZONTAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

2200 H SERIES



2200 H SERIES

Designation example "LC6H22-P05": LC: lapesa cryogenic tank, 6: nominal volume 6 m³, H: horizontal installation, 22: diameter 2,200 mm, P05: maximum working pressure 5 bar

MAIN FEATURES		LC5H22-P..*	LC6H22-P..*	LC11H22-P..*	LC16H22-P..*	LC20H22-P..*
NOMINAL VOLUME	m ³	5,0	6,0	11,0	16,0	20,0
NET VOLUME	m ³	4,9	6,2	10,9	15,7	19,9
MAXIMUM WORKING PRESSURE	bar		*(P) : 05, 09, 13, 16, 22, 28, 35			
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1				
INNER TANK	material	austenitic stainless steel				
OUTER TANK	material	carbon steel				
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²				
INTERNAL FINISH		Particle free				
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish				

TECHNICAL DETAILS		LC5H22-P..*	LC6H22-P..*	LC11H22-P..*	LC16H22-P..*	LC20H22-P..*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	2,2	2,7	4,8	6,9	8,7
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	400	400	400	400	400

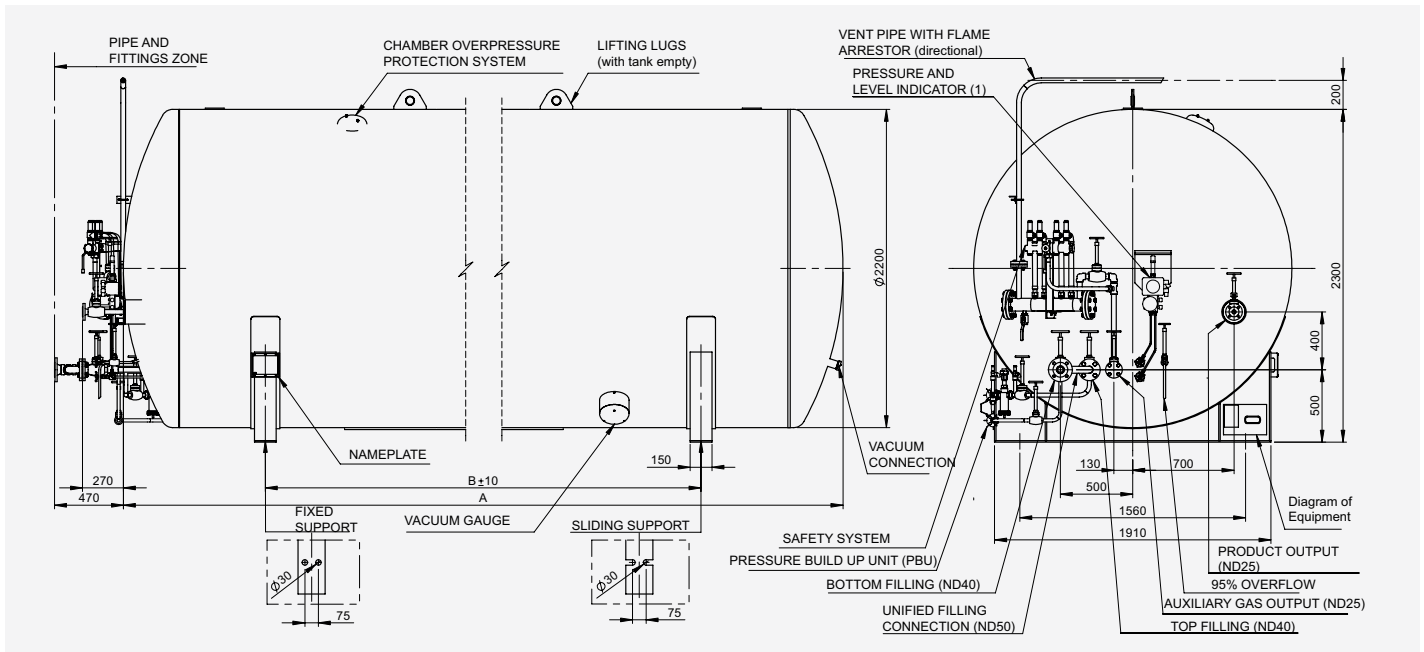
(1) Please consult us for other flow and/or pressure requirements.

EQUIPMENT INCLUDED

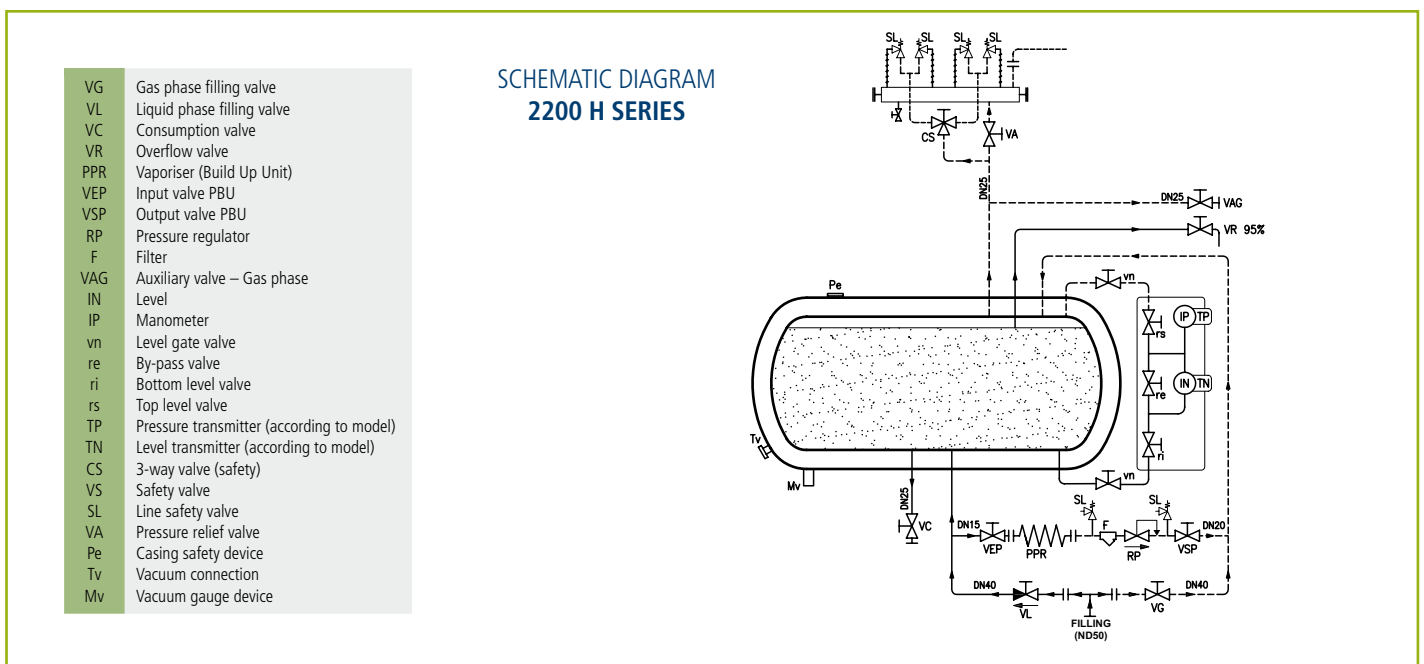
- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.



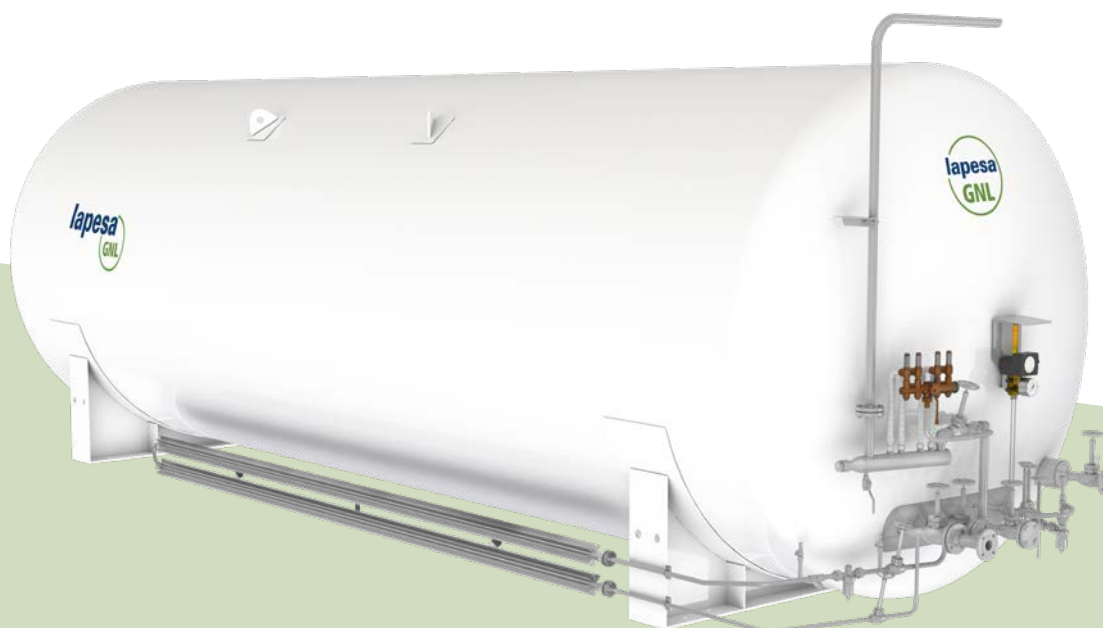
DETAILS FOR HANDLING AND TRANSPORT			LC5H22-P.*	LC6H22-P.*	LC11H22-P.*	LC16H22-P.*	LC20H22-P.*
Approx. tare when empty (tank with full equipment)	mt	P05	2,9	3,3	4,6	5,9	7,1
		P09	2,9	3,3	4,6	5,9	7,1
		P13	3,0	3,4	4,8	6,1	7,5
		P16	3,1	3,5	5,0	6,4	7,8
		P22	3,5	3,9	5,6	7,2	8,7
		P28	3,7	4,2	6,1	7,8	9,5
		P35	4,0	4,5	6,5	8,4	10,3
L: total length including valves	mm		3.525	4.065	6.065	8.065	9.845
D: total width	mm		2.200	2.200	2.200	2.200	2.200
H: total height including vent pipe	mm		2.450	2.450	2.450	2.450	2.450
P: distance between supports	mm		1.000	1.500	3.500	5.500	7.300



STATIC TANKS FOR LNG STORAGE

HORIZONTAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

3000 H SERIES



3000 H SERIES

Designation example "LC20H30-P16": LC: lapesa cryogenic tank, 20: nominal volume 20 m³, H: horizontal installation, 30: diameter 3,000 mm, P16: maximum working pressure 16 bar

MAIN FEATURES		LC20H30-P.*	LC30H30-P.*	LC40H30-P.*	LC50H30-P.*	LC60H30-P.*	LC80H30-P.*
NOMINAL VOLUME	m ³	20,0	30,0	40,0	50,0	60,0	80,0
NET VOLUME	m ³	19	30,6	39,9	49,9	59,8	79,2
MAXIMUM WORKING PRESSURE	bar			*(P) : 05, 09, 16, 20, 24, 30, 38			
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1					
INNER TANK	material	austenitic stainless steel					
OUTER TANK	material	carbon steel					
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²					
INTERNAL FINISH		Particle free					
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish					

TECHNICAL DETAILS		LC20H30-P.*	LC30H30-P.*	LC40H30-P.*	LC50H30-P.*	LC60H30-P.*	LC80H30-P.*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	8,3	13,4	17,4	21,8	26,1	34,6
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	1.000	1.000	1.000	1.000	1.000	1.000

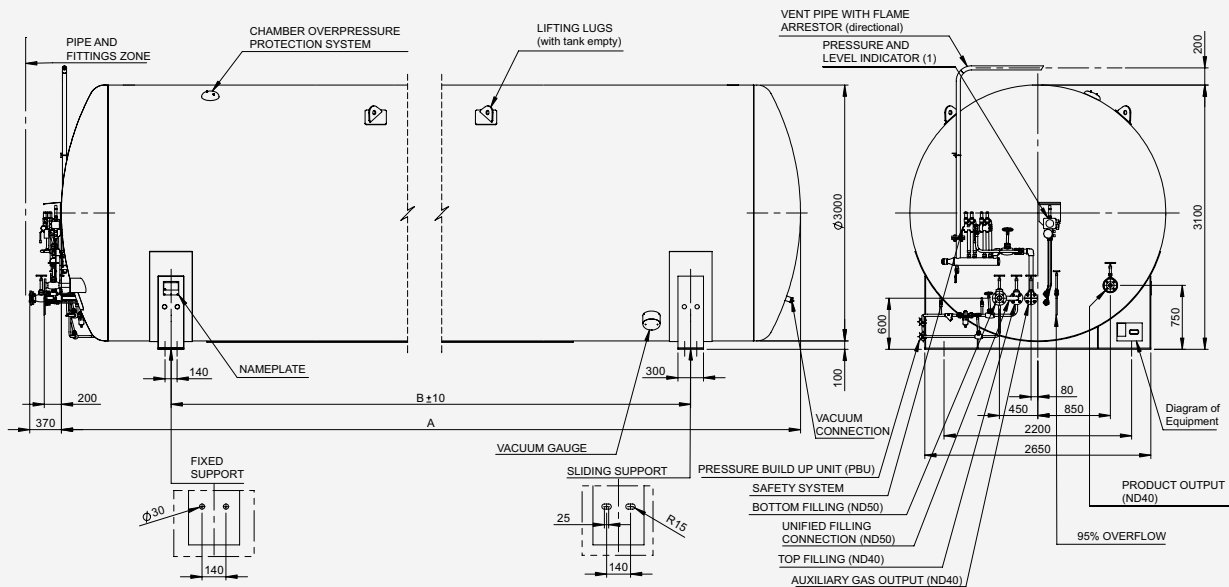
(1) Please consult us for other flow and/or pressure requirements.

EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.



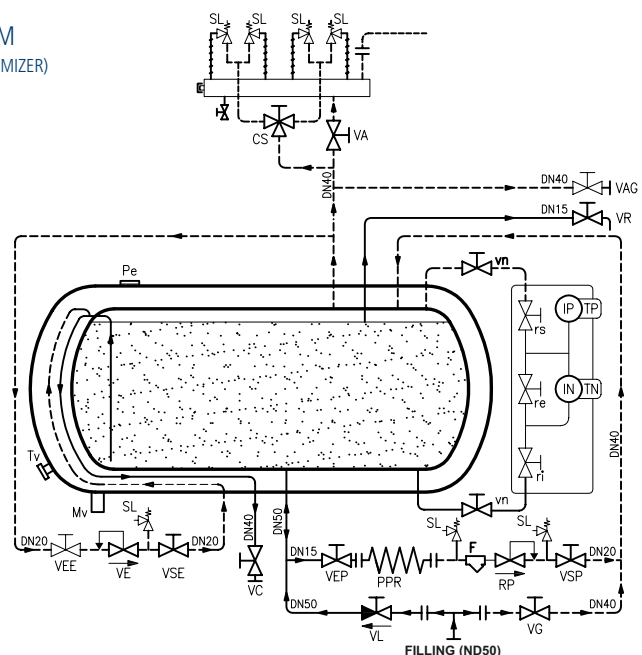
DETAILS FOR HANDLING AND TRANSPORT

LC20H30-P.* LC30H30-P.* LC40H30-P.* LC50H30-P.* LC60H30-P.* LC80H30-P.*

Approx. tare when empty (tank with full equipment)	P05	9,3	,5	12,9	15,4	17,6	22,4
	P09	9,3	10,5	12,9	15,4	17,6	22,4
	P16	10,3	11,7	14,4	17,1	19,5	24,9
	P20	11,0	12,6	15,6	18,5	21,2	27,0
	P24	11,7	13,6	16,7	19,9	22,9	29,2
	P30	12,6	14,9	18,4	21,9	25,3	32,1
	P38	13,7	16,4	20,3	24,2	27,9	35,7
L: total length including valves	mm	5.384	7.744	9.744	11.744	13.744	17.744
D: total width	mm	3.000	3.000	3.000	3.000	3.000	3.000
H: total height including vent pipe	mm	3.350	3.350	3.350	3.350	3.350	3.350
P: distance between supports	mm	2.400	4.800	6.800	8.800	10.800	14.800

SCHEMATIC DIAGRAM (EXAMPLE WITH INTERNAL ECONOMIZER) 3000 H SERIES

- VG Gas phase filling valve
- VL Liquid phase filling valve
- VC Consumption valve
- VR Overflow valve
- PPR Vaporiser (Build Up Unit)
- VEP Input valve PBU
- VSP Output valve PBU
- RP Pressure regulator
- F Filter
- VE Economiser valve
- VEE Economiser Input Valve
- VAS Economiser Output Valve
- VAG Auxiliary valve – Gas phase
- IN Level
- IP Manometer
- vn Level gate valve
- re By-pass valve
- ri Bottom level valve
- rs Top level valve
- TP Pressure transmitter (according to model)
- TN Level transmitter (according to model)
- CS 3-way valve (safety)
- VS Safety valve
- SL Line safety valve
- VA Pressure relief valve
- Pe Casing safety device
- Tv Vacuum connection
- Mv Vacuum gauge device





3800 H SERIES

Designation example "LC80H38-P16": LC: lapesa cryogenic tank, 80: nominal volume 80 m³, H: horizontal installation 38: diameter 3,000 mm, P16: maximum working pressure 16 bar

MAIN FEATURES		LC80H38-P.*	LC107H38-P.*	LC120H38-P.*	LC150H38-P.*	LC200H38-P.*	LC226H38-P.*	LC245H38-P.*
NOMINAL VOLUME	m ³	80,0	107,0	120,0	150,0	200,0	226,0	245,0
NET VOLUME	m ³	79,9	107,4	118,6	154,6	199,6	226,0	245,0
LNG USEFUL CAPACITY (95%, 1 bar)	mt	34,9	46,9	51,8	67,6	87,2	98,8	107,1
MAXIMUM WORKING PRESSURE	bar			*(P) : 05, 09, 14, 17, 22, 27, 30, 34				
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1						
INNER TANK	material	austenitic stainless steel						
OUTER TANK	material	carbon steel						
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²						
INTERNAL FINISH		Particle free						
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish						
TECHNICAL DETAILS		LC80H38-P.*	LC107H38-P.*	LC120H38-P.*	LC150H38-P.*	LC200H38-P.*	LC226H38-P.*	LC245H38-P.*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	34,9	46,9	51,8	67,6	87,2	98,8	107,1
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	1.000	1.000	1.000	1.000	1.000	1.000	1.000

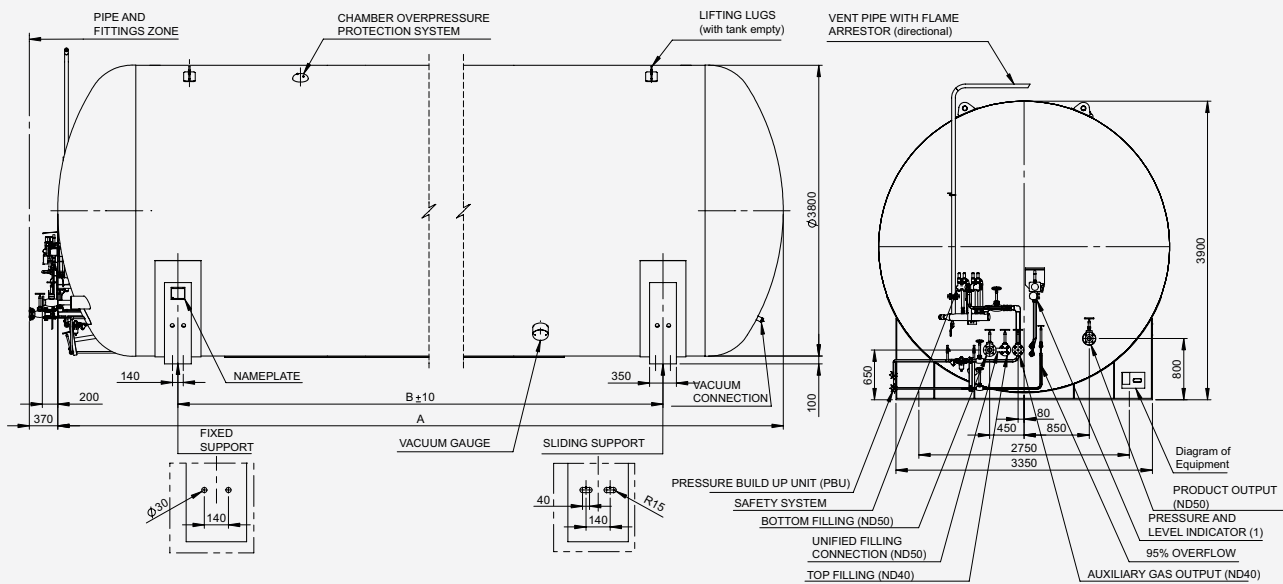
(1) Please consult us for other flow and/or pressure requirements.

EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.



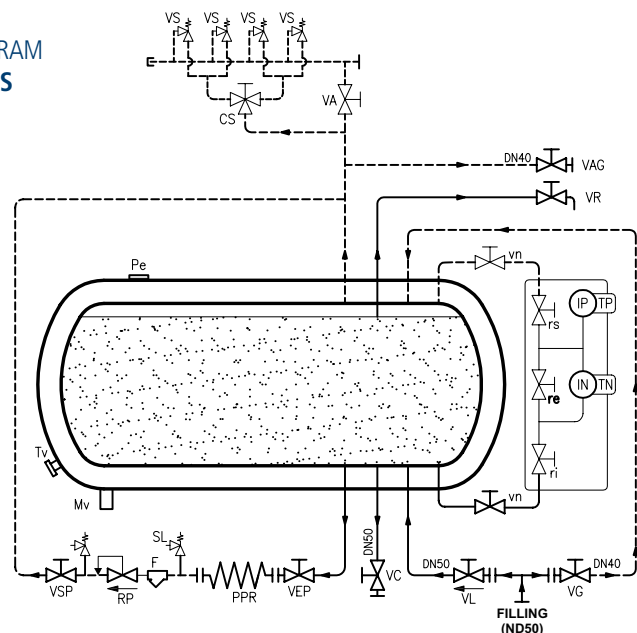
DETAILS FOR HANDLING AND TRANSPORT

LC80H38-P.* LC107H38-P.* LC120H38-P.* LC150H38-P.* LC200H38-P.* LC226H38-P.* LC245H38-P.*

Approx. tare when empty (tank with full equipment)	mt	P05	21,6	27,2	29,4	36,9	46,2	53,0	58,6
		P09	21,6	27,2	29,4	36,9	46,2	53,0	58,6
		P14	23,4	29,4	31,8	40,0	50,1	57,5	63,4
		P17	25,1	31,6	34,2	43,1	54,0	61,9	68,2
		P22	27,6	34,7	37,6	47,6	59,7	68,3	75,1
		P27	30,4	38,2	41,5	52,4	65,8	75,2	82,5
		P30	22,1	40,4	43,9	55,5	69,7	79,6	87,2
		P34	33,9	42,6	46,3	58,6	73,7	84,1	92,0
L: total length including valves	mm		10.415	13.415	14.695	18.705	23.705	26.870	29.870
D: total width	mm		3.800	3.800	3.800	3.800	3.800	3.800	3.800
H: total height including vent pipe	mm		4.150	4.150	4.150	4.150	4.150	4.150	4.150
P: distance between supports	mm		6.900	10.000	11.000	15.300	20.000	23.200	26.200

SCHEMATIC DIAGRAM 3800 H SERIES

VG	Gas phase filling valve
VL	Liquid phase filling valve
VC	Consumption valve
VR	Overflow valve
PPR	Vaporiser (Build Up Unit)
VEP	Input valve PBU
VSP	Output valve PBU
RP	Pressure regulator
F	Filter
VAG	Auxiliary valve – Gas phase
IN	Level
IP	Manometer
vn	Level gate valve
re	By-pass valve
ri	Bottom level valve
rs	Top level valve
TP	Pressure transmitter (according to model)
TN	Level transmitter (according to model)
CS	3-way valve (safety)
VS	Safety valve
SL	Line safety valve
VA	Pressure relief valve
Pe	Casing safety device
Tv	Vacuum connection
Mv	Vacuum gauge device



4200 H SERIES



4200 H SERIES

Designation example "LC240H42-P16": LC: lapesa cryogenic tank, 240: nominal volume 240 m³, H: horizontal installation, 42: diameter 4,200 mm, P16: maximum working pressure 16 bar

MAIN FEATURES		LC195H42-P..*	LC240H42-P..*	LC285H42-P..*	LC307H42-P..*	LC318H42-P..*
NOMINAL VOLUME	m ³	195,0	240,0	285,0	307,0	318,0
NET VOLUME	m ³	195,0	240,0	285,0	307,0	318,0
LNG USEFUL CAPACITY (95%, 1 bar)	mt	85,2	104,9	124,5	134,2	139,0
MAXIMUM WORKING PRESSURE	bar	*(P) : 05, 09, 13, 16, 22, 28, 35				
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1				
INNER TANK	material	austenitic stainless steel				
OUTER TANK	material	carbon steel				
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²				
INTERNAL FINISH		Particle free				
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish				
TECHNICAL DETAILS		LC195H42-P..*	LC240H42-P..*	LC285H42-P..*	LC307H42-P..*	LC318H42-P..*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	85,2	104,9	124,5	134,2	139,0
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	2.000	2.000	2.000	2.000	2.000

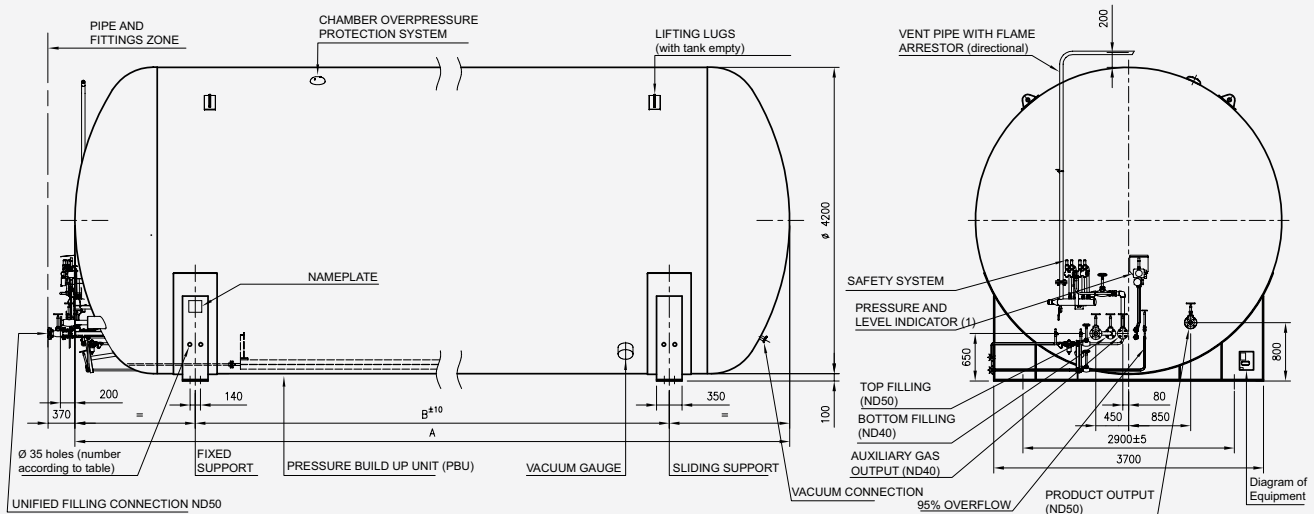
(1) Please consult us for other flow and/or pressure requirements.

EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

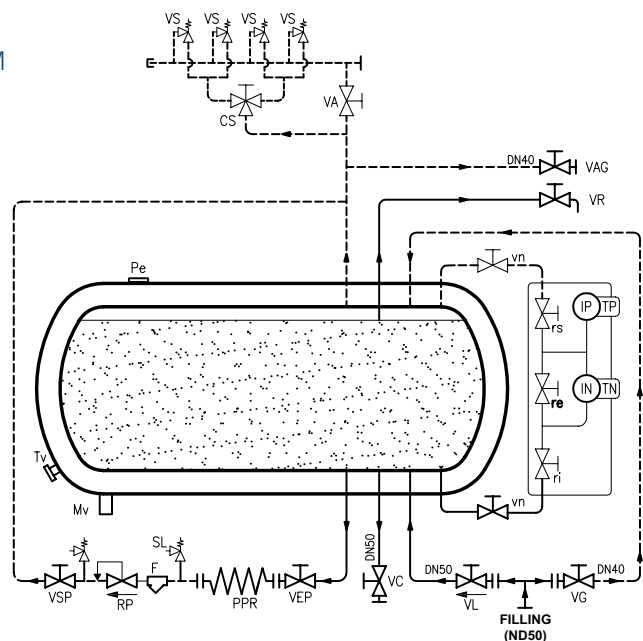
- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.



DETAILS FOR HANDLING AND TRANSPORT			LC195H42-P..*	LC240H42-P..*	LC285H42-P..*	LC307H42-P..*	LC318H42-P..*
Approx. tare when empty (tank with full equipment)	mt	P05	46,2	54,9	63,5	67,9	70,3
		P09	46,2	54,9	63,5	67,9	70,3
		P13	49,8	59,2	68,5	73,3	75,9
		P16	53,3	63,5	73,5	78,7	81,4
		P22	58,3	69,6	80,8	86,5	89,5
		P28	63,8	76,2	88,6	94,8	98,1
		P35	67,3	80,5	93,6	100,2	103,7
L: total length including valves	mm		19.070	23.070	37.070	29.700	30.070
D: total width	mm		4.200	4.200	4.200	4.200	4.200
H: total height including vent pipe	mm		4.300	4.300	4.300	4.300	4.300
P: distance between supports	mm		15.500	19.500	23.500	25.500	26.500

SCHEMATIC DIAGRAM
4200 H SERIES

- VG Gas phase filling valve
- VL Liquid phase filling valve
- VC Consumption valve
- VR Overflow valve
- PPR Vaporiser (Build Up Unit)
- VEP Input valve PBU
- VSP Output valve PBU
- RP Pressure regulator
- F Filter
- VAG Auxiliary valve – Gas phase
- IN Level
- IP Manometer
- vn Level gate valve
- re By-pass valve
- ri Bottom level valve
- rs Top level valve
- TP Pressure transmitter (according to model)
- TN Level transmitter (according to model)
- CS 3-way valve (safety)
- VS Safety valve
- SL Line safety valve
- VA Pressure relief valve
- Pe Casing safety device
- Tv Vacuum connection
- Mv Vacuum gauge device





STATIC TANKS FOR LNG STORAGE

VERTICAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

2200 V SERIES



EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

2200 V SERIES

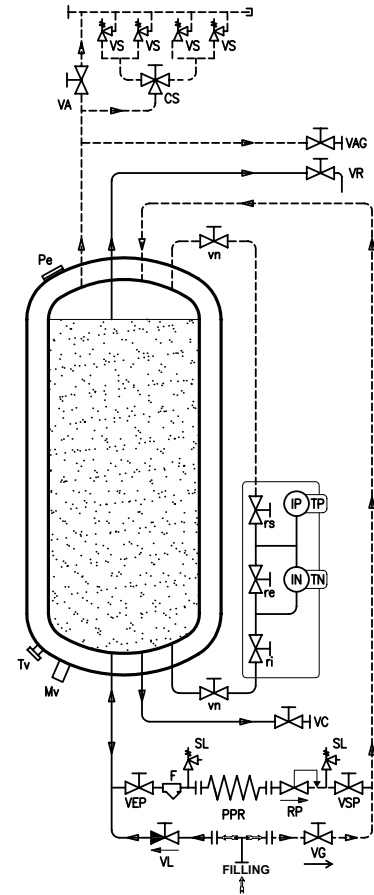
Designation example "LC6V22-P05": LC: lapesa cryogenic tank, 6: nominal volume 6 m³, V: vertical installation, 22: diameter 2,200 mm, P05: maximum working pressure 5 bar

MAIN FEATURES		LC5V22-P.*	LC6V22-P.*	LC11V22-P.*	LC16V22-P.*	LC20V22-P.*
NOMINAL VOLUME	m ³	5,0	6,0	11,0	16,0	20,0
NET VOLUME	m ³	4,9	6,2	10,9	15,7	19,9
MAXIMUM WORKING PRESSURE	bar		*(P) : 05, 09, 13, 16, 22, 28, 35			
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1				
INNER TANK	material	austenitic stainless steel				
OUTER TANK	material	carbon steel				
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²				
INTERNAL FINISH		Particle free				
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish				

TECHNICAL DETAILS		LC5V22-P.*	LC6V22-P.*	LC11V22-P.*	LC16V22-P.*	LC20V22-P.*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	2,1	2,7	4,8	6,9	8,7
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	400	400	400	400	400

(1) Please consult us for other flow and/or pressure requirements.

SCHEMATIC DIAGRAM 2200 V SERIES



VG	Gas phase filling valve	vn	Level gate valve
VL	Liquid phase filling valve	re	By-pass valve
VC	Consumption valve	ri	Bottom level valve
VR	Overflow valve	rs	Top level valve
PPR	Vaporiser (Build Up Unit)	TP	Pressure transmitter (according to model)
VEP	Input valve PBU	TN	Level transmitter (according to model)
VSP	Output valve PBU	CS	3-way valve (safety)
RP	Pressure regulator	VS	Safety valve
F	Filter	SL	Line safety valve
VAG	Auxiliary valve – Gas phase	VA	Pressure relief valve
IN	Level	Pe	Casing safety device
IP	Manometer	Tv	Vacuum connection
Mv	Vacuum gauge device		

DETAILS FOR HANDLING AND TRANSPORT

LC5V22-P..*

LC6V22-P..*

LC11V22-P..*

LC16V22-P..*

LC20V22-P..*

Approx. tare when empty (tank with full equipment)	mt	P05	3,0	3,5	4,8	6,0	7,3
		P09	3,0	3,5	4,8	6,0	7,3
		P13	3,1	3,6	5,0	6,2	7,7
		P16	3,2	3,7	5,2	6,5	8,0
		P22	3,6	4,1	5,8	7,3	8,9
		P28	3,8	4,4	6,3	7,9	9,7
		P35	4,1	4,7	6,7	8,5	10,5
L: total length including valves	mm		3.830	4.350	6.350	8.350	10.130
D: total width	mm		2.342	2.342	2.342	2.342	2.342
H: total height including vent pipe	mm		2.420	2.420	2.420	2.420	2.420



STATIC TANKS FOR LNG STORAGE

VERTICAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

3000 V SERIES



EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

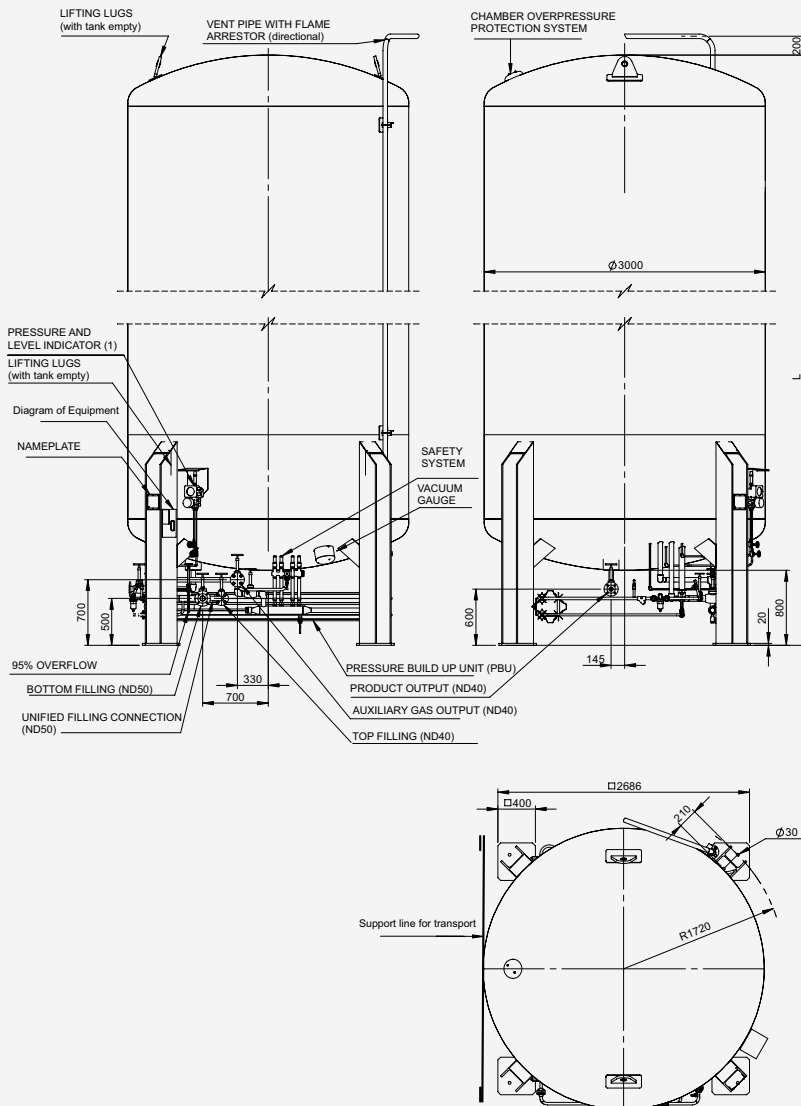
3000 V SERIES

Designation example "LC20V30-P09": LC: lapesa cryogenic tank, 20: nominal volume 20 m³, V: vertical installation, 30: diameter 3,000 mm, P09: maximum working pressure 9 bar

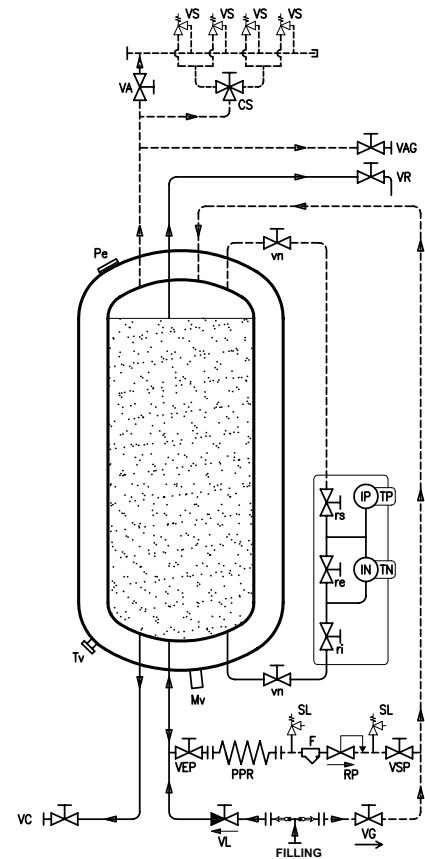
MAIN FEATURES		LC20V30-P.*	LC30V30-P.*	LC40V30-P.*	LC50V30-P.*	LC60V30-P.*
NOMINAL VOLUME	m ³	20,0	30,0	40,0	50,0	60,0
NET VOLUME	m ³	19	30,6	39,9	49,9	59,8
MAXIMUM WORKING PRESSURE	bar		*(P) : 05, 09, 16, 20, 24, 30, 38			
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div. 1				
INNER TANK	material	austenitic stainless steel				
OUTER TANK	material	carbon steel				
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²				
INTERNAL FINISH		Particle free				
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish				

TECHNICAL DETAILS		LC20V30-P.*	LC30V30-P.*	LC40V30-P.*	LC50V30-P.*	LC60V30-P.*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	8,3	13,4	17,4	21,8	26,1
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	1.000	1.000	1.000	1.000	1.000

(1) Please consult us for other flow and/or pressure requirements.



SCHEMATIC DIAGRAM
3000 V SERIES



VG	Gas phase filling valve	vn	Level gate valve
VL	Liquid phase filling valve	re	By-pass valve
VC	Consumption valve	ri	Bottom level valve
VR	Overflow valve	rs	Top level valve
PPR	Vaporiser (Build Up Unit)	TP	Pressure transmitter (according to model)
VEP	Input valve PBU	TN	Level transmitter (according to model)
VSP	Output valve PBU	CS	3-way valve (safety)
RP	Pressure regulator	VS	Safety valve
F	Filter	SL	Line safety valve
VAG	Auxiliary valve – Gas phase	VA	Pressure relief valve
IN	Level	Pe	Casing safety device
IP	Manometer	Tv	Vacuum connection
Mv	Vacuum gauge device		

DETAILS FOR HANDLING AND TRANSPORT			LC20V30-P.*	LC30V30-P.*	LC40V30-P.*	LC50V30-P.*	LC60V30-P.*
Approx. tare when empty (tank with full equipment)	mt	P05	9,0	10,5	13,4	15,9	18,4
		P09	9,0	10,5	13,4	15,9	18,4
		P16	10,0	11,7	14,9	17,6	20,3
		P20	10,7	12,6	16,1	19,0	22,0
		P24	11,4	13,6	17,2	20,4	23,7
		P30	12,3	14,9	18,9	22,4	26,1
		P38	13,4	16,4	20,8	24,7	28,7
L: total length including valves	mm		5.780	8.144	10.144	12.214	14.144
D: total width	mm		3.000	3.000	3.000	3.000	3.000
H: total height including vent pipe	mm		3.040	3.040	3.040	3.040	3.040



STATIC TANKS FOR LNG STORAGE

VERTICAL CRYOGENIC TANKS FOR LIQUEFIED NATURAL GAS

3800 V SERIES



EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

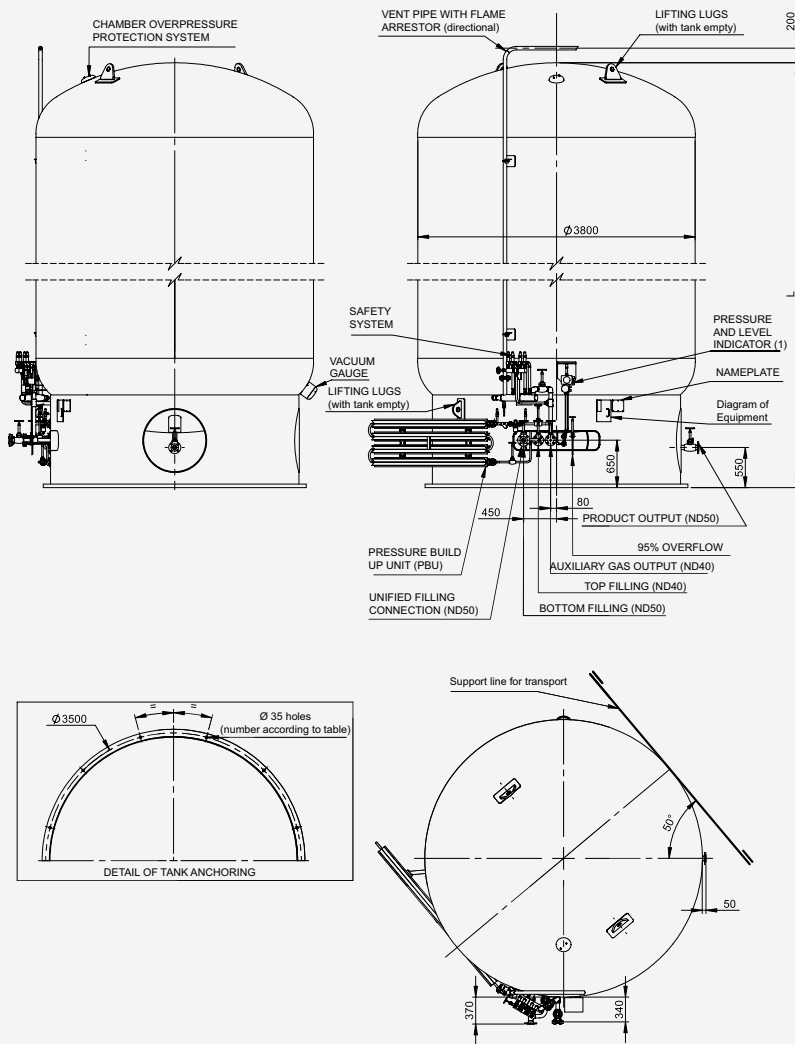
3800 V SERIES

Designation example "LC80V38-P22": LC: lapesa cryogenic tank, 80: nominal volume 80 m³, V: vertical installation, 38: diameter 3,800 mm, P22: maximum working pressure 22 bar

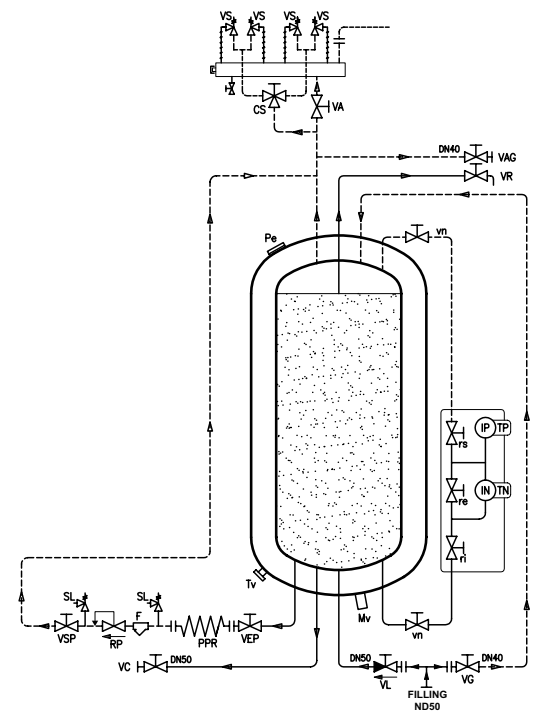
MAIN FEATURES		LC80V38-P..*	LC107V38-P..*	LC120V38-P..*	LC150V38-P..*	LC200V38-P..*
NOMINAL VOLUME	m ³	80,0	107,0	120,0	150,0	200,0
NET VOLUME	m ³	79,9	107,4	118,6	154,6	199,6
MAXIMUM WORKING PRESSURE	bar		*(P) : 05, 09, 14, 17, 22, 27, 30, 34			
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div. 1				
INNER TANK	material	austenitic stainless steel				
OUTER TANK	material	carbon steel				
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²				
INTERNAL FINISH		Particle free				
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish				

TECHNICAL DETAILS		LC80V38-P..*	LC107V38-P..*	LC120V38-P..*	LC150V38-P..*	LC200V38-P..*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	34,9	46,9	51,8	67,6	87,2
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	1.000	1.000	1.000	1.000	1.000

(1) Please consult us for other flow and/or pressure requirements.



SCHEMATIC DIAGRAM 3800 V SERIES



VG	Gas phase filling valve	vn	Level gate valve
VL	Liquid phase filling valve	re	By-pass valve
VC	Consumption valve	ri	Bottom level valve
VR	Overflow valve	rs	Top level valve
PPR	Vaporiser (Build Up Unit)	TP	Pressure transmitter (according to model)
VEP	Input valve PBU	TN	Level transmitter (according to model)
VSP	Output valve PBU	CS	3-way valve (safety)
RP	Pressure regulator	VS	Safety valve
F	Filter	SL	Line safety valve
VAG	Auxiliary valve - Gas phase	VA	Pressure relief valve
IN	Level	Pe	Casing safety device
IP	Manometer	Tv	Vacuum connection
Mv	Vacuum gauge device		

DETAILS FOR HANDLING AND TRANSPORT			LC80V38-P..*	LC107V38-P..*	LC120V38-P..*	LC150V38-P..*	LC200V38-P..*
Approx. tare when empty (tank with full equipment)	mt	P05	21,9	27,5	30,2	36,6	45,3
		P09	21,9	27,5	30,2	36,6	45,3
		P14	23,7	29,7	32,6	39,7	49,2
		P17	25,4	31,9	35,0	42,8	53,1
		P22	27,9	35,0	38,4	47,3	58,8
		P27	30,7	35,5	42,3	52,1	64,9
		P30	32,4	40,7	44,7	55,2	68,8
		P34	34,2	42,9	47,1	58,3	72,8
L: total length including valves	mm		10.920	13.945	15.195	19.195	24.195
D: total width	mm		3.810	3.810	3.810	3.810	3.810
H: total height including vent pipe	mm		3.810	3.810	3.810	3.810	3.810

4200 V SERIES



EQUIPMENT INCLUDED

- Vent pipe with flame arrester: directional.
- Vacuum gauge sensor.
- Standard filling connection: ND50.
- Electronic level indicator (with pressure and liquid level transmitter): SAMSON.
- Regulator and economiser valves: CASH, SAMSON, HEROSE
- Pressure build up unit (PBU).
- Safety valve block: HEROSE, CAEN.
- General valves: HEROSE, CAEN, BESTOBELL.

OPTIONAL EQUIPMENT

- External economiser kit with pressure regulator, filter and shut-off valve.
- Internal economiser: ND20.
- Pressure build up unit: PBU/ other capacities.
- Level indicator: mechanical.
- Fittings/valves: other makes.
- Valves pneumatically driven.
- Double Filling valve
- High point: double.

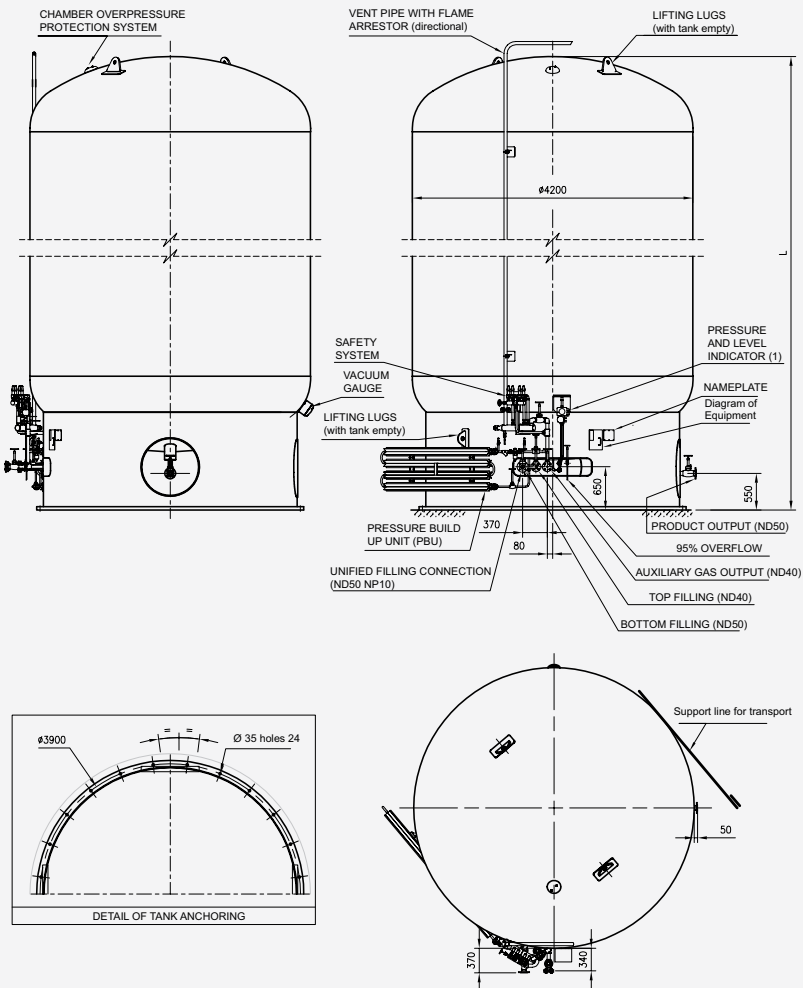
4200 V SERIES

Designation example "LC240V42-P20": LC: lapesa cryogenic tank, 240: nominal volume 240 m³, V: vertical installation, 42: diameter 4,200 mm, P20: maximum working pressure 20 bar

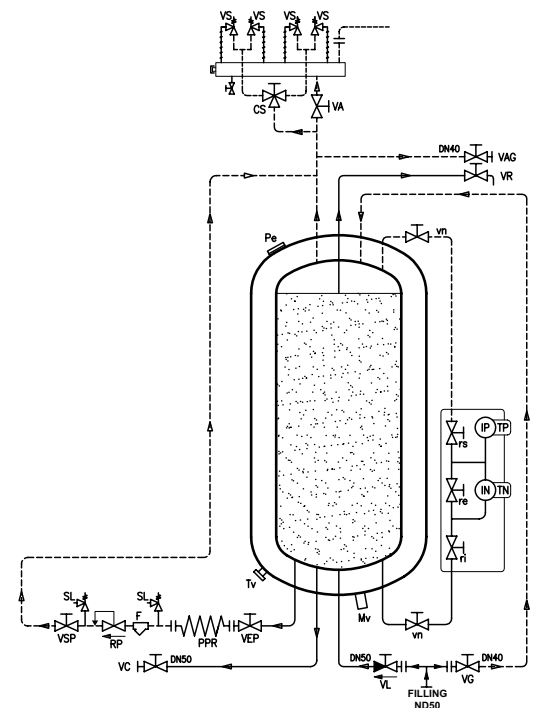
MAIN FEATURES		LC195V42-P..*	LC240V42-P..*	LC285V42-P..*	LC307V42-P..*	LC318V42-P..*
NOMINAL VOLUME	m ³	195,0	240,0	285,0	307,0	318,0
NET VOLUME	m ³	195	240	285	307	318
MAXIMUM WORKING PRESSURE	bar		*(P) : 05, 09, 12, 15, 20, 24, 27, 30			
DESIGN TEMPERATURE	°C	-196	-196	-196	-196	-196
STANDARDS		EC marking: European directive 2014/68/EU, (optional) ASME stamp: ASME VIII, div.1				
INNER TANK	material	austenitic stainless steel				
OUTER TANK	material	carbon steel				
INSULATION		Perlite insulating material, vacuum < 5 * 10 ⁻²				
INTERNAL FINISH		Particle free				
EXTERNAL FINISH		SA 2 1/2 blasting/ 60 micron polyamide epoxy primer / 60 micron white polyurethane finish				

TECHNICAL DETAILS		LC195V42-P..*	LC240V42-P..*	LC285V42-P..*	LC307V42-P..*	LC318V42-P..*
LNG USEFUL CAPACITY (95%, 1 bar)	mt	85,2	104,9	124,5	134,2	139,0
PRESSURE BUILD UP UNIT (PBU) CAPACITY (for NG consumption at 3 bar) ¹	Nm ³ /h	2.000	2.000	2.000	2.000	2.000

(1) Please consult us for other flow and/or pressure requirements.



SCHEMATIC DIAGRAM 4200 V SERIES



VG	Gas phase filling valve	vn	Level gate valve
VL	Liquid phase filling valve	re	By-pass valve
VC	Consumption valve	ri	Bottom level valve
VR	Overflow valve	rs	Top level valve
PPR	Vaporiser (Build Up Unit)	TP	Pressure transmitter (according to model)
VEP	Input valve PBU	TN	Level transmitter (according to model)
VSP	Output valve PBU	CS	3-way valve (safety)
RP	Pressure regulator	VS	Safety valve
F	Filter	SL	Line safety valve
VAG	Auxiliary valve - Gas phase	VA	Pressure relief valve
IN	Level	Pe	Casing safety device
IP	Manometer	Tv	Vacuum connection
Mv	Vacuum gauge device		

DETAILS FOR HANDLING AND TRANSPORT			LC195V42-P.*	LC240V42-P.*	LC285V42-P.*	LC307V42-P.*	LC318V42-P.*
Approx. tare when empty (tank with full equipment)	mt	P05	47,0	55,7	64,3	68,7	71,1
		P09	47,0	55,7	64,3	68,7	71,1
		P12	50,6	60,0	69,3	74,1	76,7
		P15	54,1	64,3	74,3	79,5	82,2
		P20	59,1	70,4	81,6	87,3	90,3
		P24	64,6	77,0	89,4	95,6	98,9
		P27	68,1	81,3	94,4	101,0	104,5
		P30	71,6	85,5	99,4	106,4	110,1
L: total length including valves	mm		19.580	23.580	27.580	29.580	30.580
D: total width	mm		4.210	4.210	4.210	4.210	4.210
H: total height including vent pipe	mm		4.210	4.210	4.210	4.210	4.210