

LPG STORAGE TANKS FOR UNDERGROUND INSTALLATION

Horizontal and vertical tanks for underground installation model "NATURA" supplied with standard safety and service instruments, high thickness epoxy coating and cathodic protection, approved according to Directive 97/23/CE (P.E.D.) by notified body ISPEL (CE 0100).



TECHNICAL CHARACTERISTICS

TANK	Design temperature	-25°+50° C
	Design pressure.....	17.65 bar
	Hydraulic pressure test (according to P.E.D. Directive 97/23/CE)....	25.24 bar
	Capacity	1000 - 5000 lt
	Approval according to P.E.D. Directive 97/23/CE (modules B+D).....	CE 0100 marking
	Notified body for P.E.D.....	I.S.P.E.S.L
	ATEX Directive 94/9/CE marked	Ex II 3G
REFERENCE RULES	- Design and Manufacturing	: ISPEL "Raccolte S-VSR-VSG-M", Rev. '95 - Ediz. '99 EN 14075:2000
	- Non destructive testing	: EN 1714 - UNI EN 473 - prEN14075
	- Installation and Operation	: D.M. 31/3/84 - D.M. 29/2/88 - UNI 10682
	- Welding	: Welding procedures qualified EN 288-3 : Welding personnel qualified EN287-1
	- Cathodic protection	: EN12954 - EN13636

SAFETY AND SERVICE INSTRUMENTS INSTALLED ON THE TANK

- 1) Multiservice valve 2) Magnetic float gauge 3) Filler valve 4) Pressure relief +lower check valve
- 5) Liquid withdrawal valve

Where applicable all instruments have been approved by notified bodies according to Directive 97/23/CE

MATERIALS	a) Pressure Vessel P355NH - EN10028
	b) Couplings ASTM A106 gr.B
	c) Feet Fe 37 B UNI 7070/75

EXTERNAL FINISHING:

- 1) Sand blasting of tank to grade > SA 2,5
- 2) Epoxy Coating thickness > 500 μm
- 3) Paint setting in furnace at 80°C for 200 minutes.

TANKS EQUIPMENTS and DIMENSIONS

HORIZONTAL TANKS		TANK CAPACITY			
		Lt 990	Lt 1750	Lt 2750	Lt 5000
TANK ACCESSORIES					
Multiservice valve		GS50	GS50	GS35	GS35
Filler valve		VRN20	VRN20	VRN20	VRN20
Liquid withdrawal valve		VL25	VL25	VL25	VL25
Magnetic float gauge		ϕ 800	ϕ 1000	ϕ 1200	ϕ 1200
Safety lower check valve		ST20	ST25	ST25	ST32
Safety relief valve		EU20	EU25	EU25	EU30
Bottom discharge valve		VL25	VL25	VL25	VL25
CATHODIC PROTECTION					
Magnesium anodes		1x2,5Kg	1 x 2,5Kg	2 x 2,5Kg	2 x 6,6Kg
Reference electrode (mm) C_u/C_uSO_4		150x150	150x150	150x150	150x300
CONCRETE SLAB		yes	yes	no	no
ANCHOR BELT WITH TENSIONER		no	no	yes	yes
INSTRUMENTS PROTECTION PLASTIC WELL		yes	yes	yes	yes
ADF unit		yes	yes	yes	yes
PIT DIMENSIONS (mm):	Lenght	2800	3000	3500	5300
	Width	1400	1600	1800	1800
	Height	1250	1300	1750	1750
TANK DIMENSIONS (mm):	Lenght	2170	2500	2700	4700
	ϕ_e	800	1000	1200	1200
	nominal thickness – end plates SF - (mm)	4,3	5,5	6,5	6,5
	nominal thickness – shell SP - (mm)	4,2	5,3	6,3	6,3

VERTICAL TANKS		TANK CAPACITY			
		Lt 500	Lt 1000	Lt 1650	Lt 2250
TANK ACCESSORIES					
Multiservice valve		GS41	GS41	GS41	GS41
Safety lower check valve		ST20	ST20	ST25	ST25
Safety valve		EU20	EU20	EU25	EU25
Magnetic float gauge		ϕ 1000	ϕ 1000	ϕ 1200	ϕ 1200
Liquid withdrawal valve		VL25	VL25	VL25	VL25
Filler valve (long)		VRN20L	VRN20L	VRN20L	VRN20L
CATHODIC PROTECTION					
Magnesium anodes		1 x 2,5Kg	1 x 2,5Kg	1 x 2,5Kg	1 x 2,5Kg
Reference electrode (mm) C_u/C_uSO_4		150x150	150x150	150x150	150x150
CONCRETE SLAB		yes	yes	yes	yes
INSTRUM. PROTECT. PLASTIC WELL		yes	yes	yes	yes
ADF unit		yes	yes	yes	yes
PIT DIMENSIONS (mm):	Lenght	1400	1600	1800	1800
	Width	1400	1600	1800	1800
	Height	1400	1800	2000	2400
TANK DIMENSIONS (mm):	ϕ_e	800	1000	1200	1200
	Height	1500	1900	2100	2500
	thickness - end plates - (mm)	4,3	5,5	6,5	6,5
	thickness - shell - (mm)	4,2	5,3	6,3	6,3

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