



شرکت صنایع اکسیژن دلوآر فراز



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Delvar Faraz Industries Co.



نمایی از کارخانه تولید دوئر



شرکت صنایع اکسیژن دلوار فراز با انتقال تکنولوژی، طراحی و دانش فنی ساخت سیستمهای مولد اکسیژن و نیتروژن (با روش P.S.A) از شرکت دانمارک **OXYMAT** در ژوئن ۲۰۰۰ میلادی، تولید این دستگاهها را آغاز نموده است و با قدمتی ۲۲ ساله به عنوان نخستین تولید کننده این سیستمها در کشور توانسته سهم بسزایی را در جهت برطرف کردن نیازمندیهای کشور در حوزه صنعت و سلامت ایفا نماید در همین راستا با هدف ارائه خدمات فروش و پس از فروش متناسب با نیاز کشور اقدام به معرفی و ارائه محصولات جدید اعم از مخازن کرایوژنیک و دوئر جهت نگهداری و استفاده از انواع گازهای طبی و صنعتی مایع نموده است و در سال ۲۰۲۴ این شرکت نمایندگی رسمی شرکت چینی **Run Feng** کسب نمود و به عنوان نماینده رسمی آن شرکت در ایران منتخب گردید.





OFFER N°	RFD240426-1171-01
Dewar type	210L-2.3
Number of Dewars	4
REF.	
Dewar Tag n°	

BID SHEET N°	
Rev.	Rev.1100

Characteristics:

Fluid	LOX/LINLAR	
Fluid density :		Kg/ m3
Gross capacity	210	litres
Net capacity	195	litres
Net filling weight	About 200(LOX)	kgs
Empty weight	155	kgs
Full Weight with LIN	--	kgs
Full Weight with Water	--	kgs
Insulation	High vacuum+multilayers	
Installation	Vertical	
Evaporation losses (%/day)	0.241%	for LOX equiv. at 15 °C, 1 ata, net capacity as per ISO 21014.
Safety valve opening pressure	2.62	Mpa
Bursting pressure of bursting dic.	3.60	Mpa
Support system	With matal frame and wheels	

Design	Inner vessel	Outer vessel
Calculate Pressure	4.6 Mpa	Full vacuum
Operating pressure	1.37 Mpa	-
Design temperature	-196 to +50 °C	-40 to +60 °C
Material (MOC)	S30408	S30408
Outer diameter	516 mm	-- mm
Total length	1940 mm	-- mm
Design code	GB 24159-2009	GB 24159-2009
ASME U Stamp	Non	Non
Inspection Authority	--	--

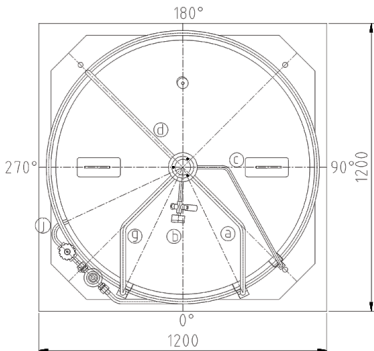
Accessories	
Piping material	A 312 TP 304 Schedule 10S or Equivalent
Nozzle material	A 182 F 304 or Equivalent
Valve material	Stainless steel (SS304) with Bronze top work
Shipment	Inner vessel will be pressurized with nitrogen at 0.5 barg

Test	
Inner vessel	Pressure test: Ptest = Max RX: 100% for longitudinal and circumferential welds; 100% T Joints
	Helium leak test: 1 x 10 ⁻⁷ mbar l/s
Outer vessel	Pneumatic test 0.5 bar DP 100% (lifting lugs)
	Helium leak test: 1 x 10 ⁻⁶ mbar l/s

Surface treatment	
Inner vessel	Degreased and Cleaned .
Outer vessel	Painting system:
	Cleaning SA 2 ½
	LOGO RUNFENG Stick-on fixing
	NAMEPLATE metallic
	Medium Labeling LOX/LIN/LAR

List of opening pipe	
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ITEMS	Name	SIZE	QUANTITY	MARKS
1	Trycock valve	DN10	1	REGO
2	Pressure gauge connection	DN10	1	REGO
3	Pressure gauge		1	KAIFENG
5	Air vent	DN10	1	REGO
6	Pressurized air return port	DN10	1	REGO
7	Pressure boosting port	DN8	1	REGO
8	Pressure regulating valve outlet	DN8	1	REGO
9	Liquid phase port	DN10	1	REGO
10	Vent out interface	Φ 30	1	RUNFENG
11	Level meter		1	RUNFENG



MARK	NAME OF PIPE PORT	SIZE
a	TOP INLET LIQUID PORT	DN15
b	LIQUID OUTLET PORT	DN10
c	AIR VENT	DN10
d	PRESSURIZED AIR RETURN PORT	DN15
g	BOTTOM INLET AND OUTLET PORT	DN15
h	VENT OUT INTERFACE	ø50
j	PRESSURIZED INLET LIQUID INLET	DN15

13	--	PROMPT MARK OF REGULATING VALVE	1	NON-SETTING ADHESIVE
12	--	FRAMEWORK	1	ASSEMBLY
11	--	BASE PLATE	1	ASSEMBLY
10	--	BOTTLE BODY	1	ASSEMBLY
9	--	LABEL 2	1	NON-SETTING ADHESIVE
8	--	LABEL 1	1	NON-SETTING ADHESIVE
7	--	NAMES/LEVELS	1	SQUARE
6	--	PIPING SYSTEM	1	ASSEMBLY
5	--	LIQUID LEVEL GAUGE	1	ASSEMBLY

For reference only, please refer to the actual product

TECHNICAL CHARACTERISTIC LIST						
PROJECT	UNITS	INNER VESSEL	OUTER VESSEL	REMARKS		
NOMINAL VOLUME	L	1000	4638	DPL50-100-XX TYPE, # INTER-LAYER VOLUME		
EFFECTIVE VOLUME	L	950	----	DPL50-100-XX TYPE		
FILLING MEDIUM		LO2/1N2/Ar/Ar/CO2				
		137/2 3/3 45		# REFERS TO EXTERNAL PRESSURE		
CALCULATED PRESSURE	MPa	2.74/4.6 6/6 90		# REFERS TO EXTERNAL PRESSURE		
PNEUMATIC TEST PRESSURE		2.74/4.6 6/6 90				
LEAKAGE TEST PRESSURE		137/2 3/3 45		# PIPELINE AIR TIGHTNESS TEST		
DESIGN TEMPERATURE	°C	-196		-40 ~ 620		
WORKING TEMPERATURE		≥-196		-40 ~ 620		
HIGH VACUUM MULTILAYER INSULATION						
INTERIOR		S30408		AVAILABLE SUS304/316L		
		0		0		
CORROSION ALLOWANCE		0		0		
NOMINAL THICKNESS	mm	5 0/8 0/12 0		4.0		
DESIGN THICKNESS	mm	5 0/8 0/12 0		4.0		
		4 3/8 7/4 0/11 20		3.57		
		3 9/5 6/6 10/0 8		2.21		
OPENING PRESSURE						
SAFETY VALVE	MPa	159/2 62/4 00				
BLOWING DEVICE	MPa	2.51/3 6/6 7.5 40		SUITABLE FOR LO2/1N2/Ar/CO2		
STATIC EVAPORATION RATE	%/d	≤150		DPL50-100-XX TYPE, PAIRED WITH LV2		
STATIC EVAPORATION RATE	Pa m ³ /s	≤6×10 ⁻⁸				
LEAK AND NOT GASSING RATE	Pa m ³ /s	≤6×10 ⁻⁷				
LAMENCH VOLUME AFTER FILLING LIQUID DETECTION	Pa	≤2×10 ⁻²				
EMPTY WEIGHT		715/833/992		DPL50-100-XX TYPE		
FULL WEIGHT		/				
		1009±2(L02)				
		702±2(L1N2)				
		1231±2(LAr)		NOT SUITABLE FOR THE WORKING PRESSURE MORE THAN 2.0		
		978±2(CO2)				
MAXIMUM FILLING QUANTITY	Kg					
GEOMETRIC DIMENSION	mm	1200×1200×2182		DPL50-100-XX TYPE		
WELD TYPE X HEIGHT						
WELDED JOINT						
NONWELD JOINT						
INSULATION DETECTION						
CLASSIFICATION	STANDARD	CLASS A AND B WARPET RAY DETECTION TECHNOLOGY GRADE A, QUALIFIED GRADE B GB/T47013.11-2015, GB/T17925-2011				

“THE DESIGN, MANUFACTURE, HOPE AND ACCEPTANCE OF THIS GAS CYLINDER SHALL BE CARRIED OUT IN ACCORDANCE WITH GB/T19240-2002 “WELDED STEEL GAS CYLINDERS” AND BE SUBJECT TO THE SUPERVISION OF TS00006-2006 “GAS CYLINDER SAFETY TECHNICAL SPECIFICATION, SUPERVISORY REGULATION”.

“THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF GB/T26125-2010 STAINLESS STEEL PLATES AND STRIPS FOR PRESSURE EQUIPMENT, WITH A MINIMUM QUALITY CERTIFICATE ATTACHED.

“THE LONGITUDINAL, CIRCUMFERENTIAL WELDS OF THE INNER AND OUTER SHELLS SHALL BE AUTOMATICALLY WELDED WITH THE WELDING WIRE HYDROGENASE AND THE TEST ARE CONTINUOUSLY MONITORING. ARCADES ARE WELDED WITH THE WELDING WIRE HYDROGENASE; IT SHOULD BE NOTED IN THE DRAWING.

“THE CONTRACTOR SHALL PROVIDE THE WELDING WIRE HYDROGENASE WITH THE WELDING WIRE HYDROGENASE BEING USED TO WELD THE WELDING WIRE HYDROGENASE, DENING AND OTHER CONTAMINANTS. THE EXTERNAL SURFACE OF THE BOTTLE MUST BE PROTECTED TO A THICKNESS OF 4MM.

“THE PROHIBITION PRESSURE GAUGE USED, WITH AN ACCURACY OF 2.5 LEVELS.

“THE SAFETY VALVE CAN ONLY BE USED WITH LEAD AFTER PASSING THE CORRESPONDING, AND THE PRESSURE GAUGE NEEDS TO BE ISSUED WITH AN INDEPENDENT CERTIFICATE OF THE METROLOGICAL DEPARTMENT.

“THE TIGHTNESS TEST OF THE PIPELINE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF GB/T19230, AND THE TEST METHOD SHALL BE DRY, CLEAN, OIL FREE AIR OR NITROGEN AFTER ASSEMBLING THE VALVES AND SAFETY ACCESSORIES OF GAS CYLINDERS. NITROGEN SHALL BE USED TO CONDUCT A PRESSURE TIGHTNESS TEST. THE TEST PRESSURE SHALL BE 1.5X PMA, AND THE PRESSURE-HELD TIME SHALL NOT BE LESS THAN 15 MINUTE. THE LEAKS, JOINTS, AND SAFETY ACCESSORIES SHALL BE CHECKED.

“MEAN ONE OF THE END POINT IT ON THE CORRESPONDING POSITION WITH A STEEL SCALE.

“AFTER FABRICATION, FILL 0.5°C PMA NITROGEN FOR STORAGE.

[illegible]



شرکت صنایع اکسیژن دلوآر فرارز
Delvar Faraz Industries Co.

PROCESS DATA SHEET FOR 500L DEWAR

OFFER N°

Dewar type

VERTICAL AND HORIZONTAL

Number of Dewars

Prepared by

Contact

Bid offer no.

Rev. Rev.00

Characteristics:

Fluid	LOX/LIN/LAR	
Fluid density :		Kg/ m3
Gross capacity	499	litres
Net capacity	474	litres
Net filling weight	About 503(LO2) 350(LN2) 614(LAR)	kgs
Empty weight	381	kgs
Insulation	High vacuum+multilayers	
Installation	Horizontal	
Evaporation losses (%/day)	1.9%	for LN2 equiv. at 15 °C, 1 ata, net capacity as per ISO 21014.
Safety valve opening pressure	1.9	Mpa
Bursting pressure of bursting dic.	2.41	Mpa
Support system	With metal frame and wheels	

Design	Inner vessel	Outer vessel
Calculate Pressure	3.18 Mpa	Full vacuum
Operating pressure	1.59 Mpa	-
Nominal thickness	4 mm	3 mm
Design temperature	-196 to +50 °C	-40 to +60 °C
Material (MOC)	S30408	S30408
Outer diameter	-- mm	706 mm
Overall dimensions	2100x820x1062 MM	
Design and manufactured code	GB/T17925-2011	GB/T17925-2011
ASME U Stamp	Non	Non
Inspection Authority	Factory	Factory

Accessories	
Piping material	A 312 TP 304 Schedule 10S or Equivalent
Nozzle material	A 182 F 304 or Equivalent
Valve material	Stainless steel (SS304) with Bronze top work
Shipment	Inner vessel will be pressurized with nitrogen at 0.5 barg

Test	
Inner vessel	Pressure test: Ptest = 4.6 Mpa RX: 100% for longitudinal and circumferential welds; 100% T Joints Helium leak test: 1 x 10 ⁻⁷ mbar l/s
Outer vessel	Pneumatic test 0.5 bar DP 100% (lifting lugs) Helium leak test: 1 x 10 ⁻⁶ mbar l/s

Surface treatment	
Inner vessel	Degreased and Cleaned .
Outer vessel	Painting system: Cleaning SA 2 ½ LOGO RUNFENG Stick-on fixing Nameplate metallic Medium Labeling Indicated by customer





MARK	NAME OF PIPE PORT	CONNECTING THREAD SIZE	REMARKS
a	VENT (PRESSURIZED AIR RETURN) PORT	CGA540(D)EXTRAL/M27x2	DEXTRAL
b	LIQUID OUTLET PORT	CGA540(D)EXTRAL/M27x2	DEXTRAL
c	LIQUID INLET PORT	CGA540(D)EXTRAL/M36X2	DEXTRAL
d	VENT OUT INTERFACE	ø30	
e	LEVEL GAUGE INTERFACE	-	
f	PRESSURIZED AIR INLET	DN10	DEXTRAL

3. THE DESIGN, MANUFACTURING, INSPECTION AND ACCEPTANCE OF THIS GAS CYLINDER SHOULD BE CARRIED OUT IN ACCORDANCE WITH GB17424-2012 "WELDED INSULATED GAS CYLINDERS" AND BE SUBJECT TO THE SUPERVISION OF TSGR0006-2014 "GAS CYLINDER SAFETY TECHNICAL SUPERVISION REGULATION";
4. THE MAIN MATERIAL SHALL COMPLY WITH THE REQUIREMENTS OF GB17424-2012 STEEL STAINLESS STEEL PLATES AND STRIPS FOR PRESSURE EQUIPMENT, WITH A MATERIAL QUALITY CERTIFICATE ATTACHED;
5. THE LONGITUDINAL CIRCUMFERENTIAL WEAR OF THE INNER AND OUTER SHELLS ARE AUTOMATICALLY WELDED WITH THE WELDING WIRE H08Cr2Ni10NiSi1 AND THE REST ARE CRUENTIALLY MANUAL ARGON ARC WELDED WITH THE WELDING WIRE H08Mn2Si, EXCEPT AS INDICATED IN THE DRAWING;
6. THE SURFACE OF THE VACUUM INTERLAYER PARTS IN CONTACT WITH THE WORKING MEDIUM MUST BE LEAD TO THOROUGHLY REMOVE GREASE, DEBRIS, AND OTHER CONTAMINANTS; THE EXTERIOR SURFACE OF THE BOTTLE MUST BE POLISHED TO A ROUGHNESS OF RA4.0;
7. THE OIL PRESSION PRESSURE GAUGE USED SHALL, WITH AN ACCURACY OF 25 LEVELS;
8. THE SAFETY VALVE CAN ONLY BE RECALLED WITH LEAD AFTER PASSING THE COMMISSIONING, AND THE PRESSURE GAUGE NEEDS TO BE ISSUED WITH AN INSPECTION CERTIFICATE BY THE METROLOGY DEPARTMENT;
9. THE AIR TIGHTNESS TEST OF THE PIPELINE SHALL BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF GB4717/2017, AND THE TEST MEDIUM SHALL BE DRY, CLEAN, OIL FREE AIR OR NITROGEN AFTER ASSEMBLING THE VALVES AND SAFETY ACCESSORIES OF GAS CYLINDERS, NITROGEN SHALL BE USED TO CONDUCT A PIPELINE TIGHTNESS TEST, THE TEST PRESSURE SHALL BE XX MPa, AND THE PRESSURE HOLDING TIME SHALL NOT BE LESS THAN 1 MINUTE; THE VALVES, JOINTS, AND SAFETY ACCESSORIES SHALL NOT HAVE LEAKAGE;
10. WEIGH ONE BY ONE AND PRINT IT ON THE (CORRESPONDING POSITION OF THE NAMEPLATE) WITH A STEEL SEAL;
11. AFTER FABRICATION, FILL 0.05 O.MPA NITROGEN FOR STORAGE.

4	--		WATER'S	3	A2	--		
3	--		BOLT HEADS	3	A2-70	--		
2	--		PROTECTIVE RING.	1	201		2.2	
1	--		PROTECTIVE RING SUPPORT	4	S30408	0.46	1.84	
							SINGLE TOTAL	
NUMBER	CODE	NAMES	QUANTITY	MATERIAL	SCIENCE		WEIGHT	REMARKS
GENERAL ASSEMBLY DRAWING								
SIGN _____ INVENTOR ENGINEER NUMBER _____ AUTOGRAPH _____ SIGN _____								
								DPW950-1000-
								RPM950-1000 SX TYPE
								VILD INSULATED GAS CYLINDERS
DESIGN		FORNARDIN		STAGE MARKED	WEIGHT	PREPARED		
PURCHASE		WORKSHOP				175		
TO EXAMINE		DATE		EDITOR B		OF		HBRF 1000H-00

For reference only, please refer to the actual product



河北润丰低温设备有限公司

HebeiRunfeng Low Temperature Equipment Co. Ltd

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TEL: 0086-18003316728

adam@cryogenicchina.com

FAX: 0086-318-5708068

CERTIFICATE OF THE MANUFACTURER

China, June25th, 2024

We , Hebei Runfeng Low Temperature Equipment Co. LTD. ,have been established and operating since 2005. we are the manufacturer of cryogenic Dewar bottles and tanks and located at Hebei Province of P.R.China. Our product range covers: Dewar bottles ,Microbulk tank,storage tanks ,transportable tanks, semitrailer tankers,and ISO tanks. hereby authorize:

Delvar Faraz oxygen and nitrogen industries company

Represented by: Mr.Niazali

Add: No. 4, Holjerd Industrial Village, at the beginning of Baharestan Industrial Town, Karaj, Alborz

To sell and promote our products in Iran market.

We will commit the products sold into Iran market with guaranteed quality from manufacturer.

This authorization is valid until June 24th, 2025.

河北润丰低温
设备有限公司

HEBEI RUNFENG LOW TEMPERATURE
EQUIPMENT CO., LTD

MR. LIU CHANG (刘昶)
Authorized Representative

