

Instruction Manual

For INERT GAS SAMPLING HOSE & ADAPTOR

Benefits of T2000-TOS-01

- *Protect environmental pollution*
- *Easy construction*
- *Easy operation & maintenance*



MODEL : T2000-TOS-01

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(Model : T2000-TOS-01)

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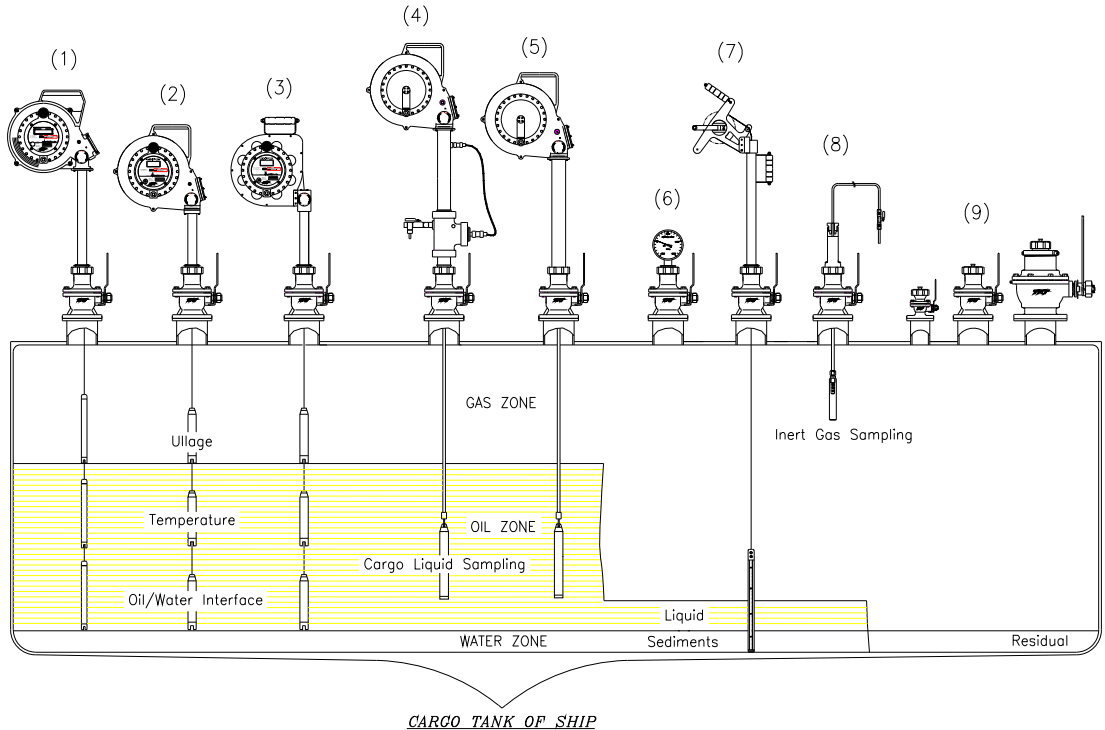
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2. All kinds of TANKTECH Portable Measuring System

No.	Discription
1	Closed Type Portable Oil/Water Interface Detector for Ullage, Oil/Water Interface & Temperature gauging (MODEL : T2000-TFC-01)
2	Closed Type Portable Oil/Water Interface Detector for Ullage, Oil/Water Interface & Temperature gauging (MODEL : T2000-TFC-02)
3	Restricted type Portable Oil/Water Interface Detector for Ullage, Oil/Water Interface & Temperature gauging (MODEL : T2000-TFS-01)
4	Gas Tight Type Cargo Liquid Sampling Device (MODEL : T2000-TSS-01)
5	Closed Type Cargo Liquid Sampling Device (MODEL : T2000-TSS-02)
6	Inert Gas Press Gauge (MODEL : T2000-TPG-01)
7	Tank Bottom Dryness (Hand Dipping) Checking Device (MODEL : T2000-TLS-01)
8	Inert Gas Sampling Hose & Adaptor (MODEL : T2000-TOS-01)
9	Shut On/Off Valve (Vapor Control Valve) (MODEL : TVC-01, TVC-02, TVC-04)



INERT GAS SAMPLING HOSE & ADAPTOR GAS SAMPLING ADPTOR FOR OXY GEN MEASURING

3. SPECIFICATION .

3-1 General Description

Measured the oxygen in tank absorbed the inert gas by the portable oxygen tester, use to Connect the gas sampling device at the shut on-off valve of TANKTECH on the deck without the leakage of the inert gas.

Related Regulations and Contents

The IMO requirements on tanker safety and pollution prevention, 1978-Resolution A. 446(XI), 6.6 : before each tank is crude oil washed, the oxygen level shall be determined at a point 1 meter from the deck and at the middle region of the ullage space and neither of these determinations shall exceed 8% by volume.

Normally, oxygen meter must be supplied by inert gas system maker to tank ship in accordance with the regulation for inert gas system, and being required to gauge on TANKTECH tank gauging station (shut on-off valve).

So, TANKTECH will supply the gas sampling attachment (or with sampling hose ass'y) on TANKTECH tank gauging station [shut on-off valve], for measuring oxygen level without releasing inert gas.

3-2 Model No. : T2000-TOS-01

Hose size	O.D 8 x I.D 6
Hose length	35M
Adapter coupling (Top mounting of model : TVC- 02)	PF 2-1/4" TAP

3-3 Material

MODEL : T2000-TOS-01 (Adapter) -----: Stainless steel casting (JIS – SCS16A)

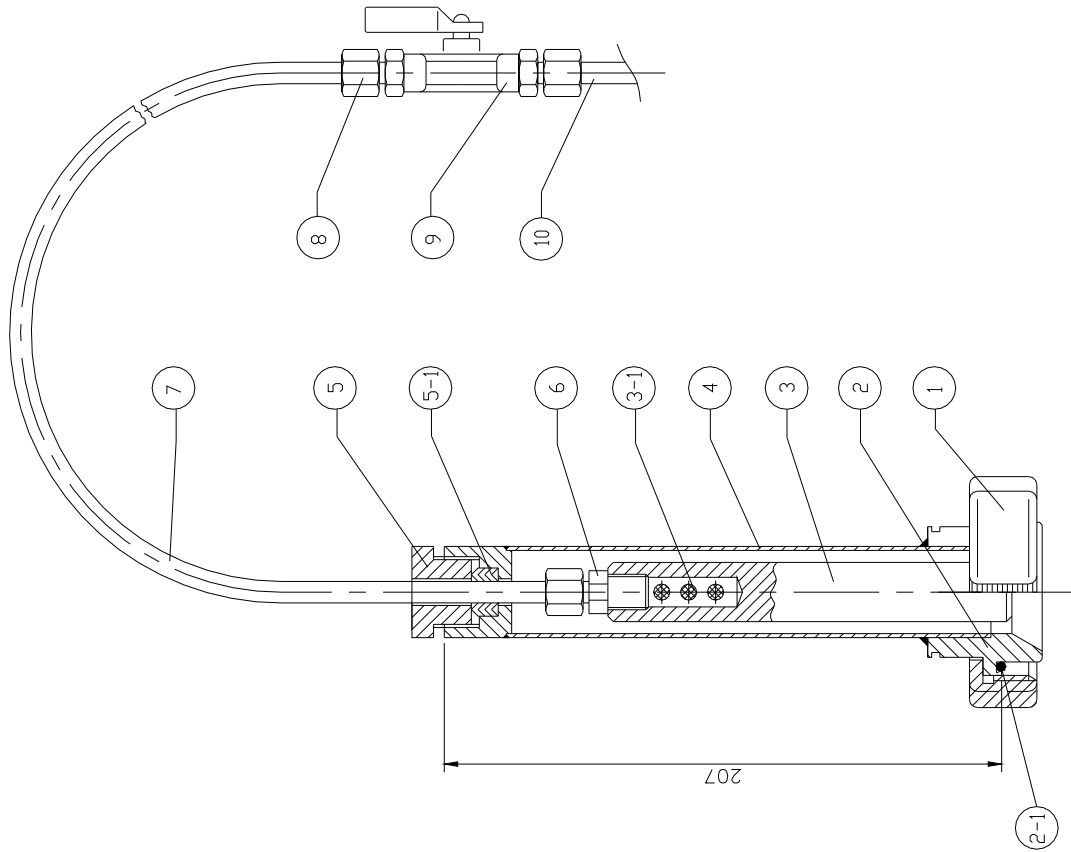
3-4 Coating

IN/OUT SIDE -----: N/A

COLOR -----: N/A

THICKNESS. (IN/OUT SIDE) -----: N/A

Installation for shut on/off valve model : TVC-02



NO.	DESCRIPTION	DM	MATERIAL	QTY	REMARK
1	STATION COLLAR	ø82x25L	SCS16A	1	-
2	2" FIX GUIDE	ø62x42.5L	SUS316	1	-
2-1	O-RING	P48x3.5	VITON	1	-
2-2	STOP-RING	P48	SUS304	1	-
3	HOSE WEIGHT	ø22x150L	SUS316	1	-
3-1	SCREEN (MESH)	#12	SUS316	1	-
4	STORAGE PIPE	ø34x203L	SUS316	1	-
5	HOSE JOINT	ø34x30L	SUS316	1	-
5-1	V PACKING	H8	VITON	1	-
6	ADAPTER	PT 1/4"xø8	BRASS	3	-
7	HOSE	Length : 25M / 35M	PU	1	-
8	HOSE BEND	-	BRASS	1	-
9	VALVE 2 WAY	PT 1/4"	BRASS	1	-
10	HOSE	Length : 3M	PU	1	-

Model no. : T2000-TOS-01 (UNIT : mm)

Hose size	O.D 8 X I.D 6
Hose length	35M
Adaptor coupling	PF 2-1/4" TAP

General Assembly Drawing	
Client :	Model : T2000-TOS-01 B.C.M No. :
Project :	Title : Inert gas sampling hose & adaptor
(Proj. No.)	
General Tolerances :	View Scale N/A
See Ref. Window 1.	Note J.O.C.P.
Designed :	03.11.21
Drawn :	J.O.LEE
Checked :	
Approved :	
Drawing No. : TOS-02-WK-ZZZ-01-S Page No. :	

INERT GAS SAMPLING HOSE & ADAPTOR

GAS SAMPLING ADPTOR FOR OXY GEN MEASURING

4. Operation for INERT GAS SAMPLING HOSE & ADAPTOR

1. Check if the on-line valve and the vapor lock ball valve are safely closed.
2. Install T2000-TOS-01 on the vapor lock ball valve.
3. Open the vapor lock ball valve as follows.

Remove the cap of the shut on-off valve and connect the checking device at the valve.

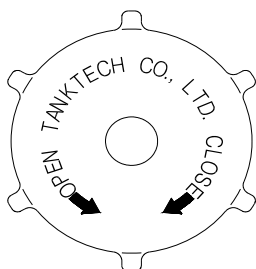


Fig 1. Remove the cap for Model : TVC-02

CAUTION PREVENT MACHINE DAMAGE	MODEL : (TVC-02) Shut On/Off valve (Gauging Station) installed on tank top. it is available to draw up checking device in any desired level, without releasing dangerous vapor from tank.
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Fig 2. Detail of Seal part

Open the shut on-off valve.

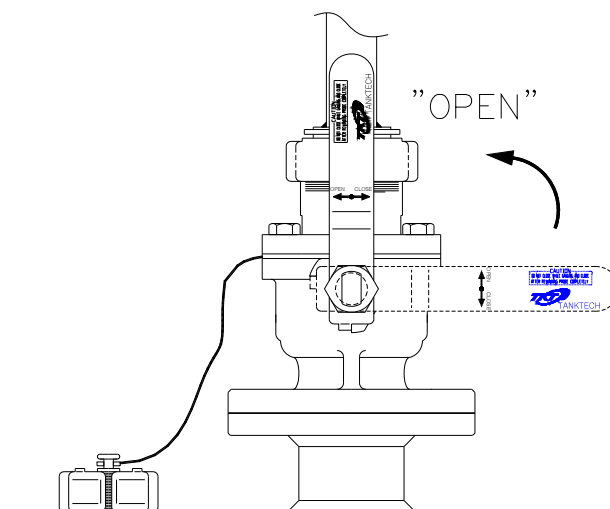


Fig 3. Open handle position

4. Release the gas sampling adaptor to allow the sampling hose to be lowered to the sampling point.
5. Install the monitoring device which supplied by the monitoring device maker.
6. Open the on-line valve.
6. Follow the instruction of the monitoring device maker.
7. After the gas sampling, pull out the gas sampling adaptor.
8. Close the vapor lock ball valve.
9. Clean T2000-TOS-01.