Operation and Service Manual for HERMetic Sampler GTX Chem

Portable Closed Sampling Device



Note:

Before using the instrument please read this book.





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2 Recommendation for safe use

- I. This Operation and Service Manual is a guide in order to help the user to operate the instrument to our best knowledge.
- II. Nevertheless the maker disclaims all responsibility and liability for damage resulting from the use of the equipment regardless of the cause of the damage.
- III. Attention is drawn to the possible hazard due to electrostatic charges which may be present in the tank. This may happen in particular with static accumulator liquids, i.e. liquids which have low conductivity of 50 picoSiemens/metre (pS/m) or less.
- IV. It is very important that the instrument is grounded to the tank before the bottle is introduced into the tank and remains grounded until after complete withdrawal from the tank.
 - A. If the instrument is installed with the quick connect coupler, grounding is effected through the quick connect coupler and the mating nipple of the valve provided that these parts are kept clean and free from corrosion in order to guarantee electrical conductivity. If a grease is used for this purpose, it must be one which contains graphite.
 - B. If the instrument is not connected to the mating deck valve, the instrument has to be also earthed by means of the grounding cable and clamp.
- V. It is anticipated that the user will have specific operating methods laid down to ensure safety when using this type of apparatus. In this case the user's instructions shall be strictly observed.
- VI. In the absence of such instructions the following should be noted:
 - A. If a metal sounding pipe is fitted beneath the deck valve or tank is inerted, then sampling, etc. is permissible at any time with no restriction.
 - B. If there is no sounding tube or tank is not inerted, the following precautions shall be taken:
 - 1. If the cargo is not a static accumulator liquid, i.e. its conductivity is more than 50pS/m, then sampling is permitted provided that the instrument is properly grounded and earthed before the bottle is inserted into the tank and remains earthed until the bottle has been removed from the tank.
 - 2. If the cargo is a static accumulator liquid, i.e. its conductivity is less than 50 pS/m, then sampling is permitted provided that:
 - a) The instrument is properly grounded and earthed before the bottle is inserted into the tank and remains earthed until the bottle has been removed from the tank.
 - b) The apparatus is not introduced into a tank until at least 30 minutes have elapsed after completion of any loading operation or stopping the injection of inert gas.
 - C. For further guidance refer to International Safety Guide for Oil Tankers and Terminals (ISGOTT), ISBN 10 85609 291 7, Fith Edition 2006, or consult the appropriate Legislative Authority for the installation.
- VII. This product and his use is / may be related to international, national, local or company regulations or standards. It is the customer / user responsibility to ensure that the way to use the device complies with such applicable regulations or standards.
- VIII. This device is a protable product. It must not be permanently installed on the tank and must be disconnected after use and stored in a safe and dry area.

3 General information

3.1 Shipment note

The following parts should be included in the shipment:

- 1 instrument;
- 1 Allen key 1.3 mm;
- 1 pump;
- 1 or more bottles as ordered:
- 1 Operation and Service Manual.

3.2 <u>Initial inspection</u>

Check the contents of the shipment for completeness and note whether any damage has occurred during transport. Carry out the "Initial test before installing the instrument" to verify the good functioning. If the contents are incomplete, or if there is damage, do not use the device. A claim should be filled with the carrier immediately, and Enraf Tanksystem SA Sales or Service organization should be notified in order to facilitate the repair or replacement of the instrument.

3.3 <u>Documentation discrepancies</u>

The design of the instrument is subject to continuous development and improvement. Consequently, the instrument may incorporate minor changes in detail from the information contained in the manual.

3.4 Warranty

12 months after installation but max. 18 months after delivery ex works.

The Vendor undertakes to remedy any defect resulting from faulty design materials or workmanship. The Vendor's obligation is limited to the repair or replacement of such defective parts by his own plant or one of his authorized service stations. The Purchaser shall bear the cost and risk of transportation of defective parts and repaired parts supplied in replacement of such defective parts.

When returned to Enraf Tanksystem SA or any of its agreed Service Stations equipment must be contamination-free. If it is determined that the Purchasers equipment is contaminated, it will be returned to the Purchaser the Purchasers expense. Contaminated equipment will not be repaired, replaced, or covered under any warranty until such that the said equipment is decontaminated by the Purchaser.

The Purchaser shall notify by fax, telex or in writing of any defect immediately upon discovery, specifying the nature of the defect and/or the extend of the damage caused thereby.

Where no other conditions have been negotiated between the Vendor and the Purchaser "General Conditions 188" of United Nations shall apply.

This equipment has been certified as nonelectrical equipment for potentially explosive atmospheres for only those classes or categories of hazardous areas stated on the instrument label, bearing the mark of the applicable approval authority. No other usage is authorized.

Unauthorized repair or component replacement by non original spare parts by the Purchaser will void this guarantee and may impair the good functioning of the instrument.

In no event shall Enraf Tanksystem SA be liable for indirect, incidental or consequential loss or damage or failure of any kind connected with the use if its products or failure of its products to function or operate properly.

Enraf Tanksystem SA do not assume the indemnification for any accident or damage caused by the operation of its product and the warranty is limited to the replacement of parts or complete goods.

3.5 Certification



Enraf Tanksystem SA is an ISO 9001 certified company by QMI and MED-D by Det Norske Veritas Certification GmbH.



The equipment has been approved as nonelectrical equipment for potentially explosive atmospheres by the following authorities:

ATEX

KEMA 06ATEX 0027 II 1 G c IIB T6 (Ta -20 to +80°C)

If you need a copy of any of this certificate please contact:

Enraf Tanksystem SA Rue de l'industrie 2 1630 Bulle, SWITZERLAND

Telephone : +41-26-91 91 500
Telefax : +41-26-91 91 505
Web site : www.tanksystem.com

E-mail : tanksystem@honeywell.com

3.6 Spare parts

Substitution of components may impact safety. Use only original spare parts.

When ordering spares identify the spare part by TS number and description. Refer to section "Drawings".

Some spares might be repairable; in this case send part to any authorized service center or to the factory.

In case of urgency replacement units can be available while stocks last.

3.7 Service and Repair

The customer should take care of the freight and customs clearance charges. If units are sent on "freight collect» the charges will be invoiced to the customer.

When returning units or parts for repair to the factory please fill out a service request form (see next page).

Traceability information is engraved on a plate fixed to the sampler. The serial number of the unit is as follows:

SX followed by a 4 digits number.

When returned to Enraf Tanksystem SA equipment must be contamination-free. If it is determined that the customers equipment is contaminated, it will be returned to the customer at the customers expense. Contaminated equipment will not be repaired until such time that the customer decontaminates the said equipment.

Service Request
Customer's address:
Telephone:
Telex:
Fax:
Type of unit or part:
Serial number : . SX
Short description of defective unit or part:
Do you want a quotation before repair is started:yes / no
Repaired unit has to be returned to the following address:



4 Worldwide Service Stations network

The updated list can be found on our website www.tanksystem.com

	updated list carr be found on our website <u>v</u>	
COUNTRY	ADDRESS	TELEPHONE/FAX/E-MAIL
SWITZERLAND	ENRAF TANKSYSTEM SA 2, rue de l'Industrie CH-1630 BULLE	Tel: +41-26-91 91 500 Fax: +41-26-91 91 505 Tanksystem@honeywell.com
CANADA	PYLON ATLANTIC A Div. Of Pylon Electronics Inc. 31 Trider Crescent., DARTMOUTH, N.S. B3B 1V6	Tel: +1-902-4683344 Fax: +1-902-4681203 halifax_csr@pylonelectronics.com
CHINA	HUA HAI EQUIPMENT & ENGINEERING CO LTD Factory 7, Lane 1365, East Kang Qiao Road Kang Qiao Industrial Zone, Pu Dong SHANGHAI, P.C. 201315	Tel: +86-21-68183183 Fax: +86-21-68183115 huahaish@huahaiee.com
GREECE	SPANMARIN 86, Filonos Street GR-185 36 PIRAEUS	Tel: +30-210-4294498 Fax: +30-210-4294495 spanmarin@ath.forthnet.gr
JAPAN	DAIWA HANBAI CORPORATION LTD 2-10-31, Mitejima, Nishiyodogawa-ku OSAKA 555-0012	Tel: +81-6-64714701 Fax: +81-6-64729008 daiwa471@silver.ocn.ne.jp
KOREA	World Ocean CO., LTD Rm1001, Hae-deok Bldg., 1212-11 Choryang-dong Dong-Gu BUSAN	Tel: +82-51-462-2554/5 Fax: +82-51-462-0468 marine@worldocean.co.kr
MEXICO	URBAN DEL GOLFO S.A. DE C.V. Ave. Ejército Mexicano 1902 Col. Loma del Gallo 89460 CD. MADERO, TAMPS. MEXICO	Tel: +52-833-2170190 Fax: +52-833-2170190 urbansa@prodigy.net.mx
NETHERLANDS	B.V. TECHNISCH BUREAU UITTENBOGAART Brugwachter 13 NL-3034 KD ROTTERDAM	Tel: +31-10-4114614 Fax: +31-10-4141004 info@tbu.nl

The updated list can be found on our website www.tanksystem.com

COUNTRY	ADDRESS	TELEPHONE/FAX/E-MAIL
PORTUGAL	CONTROLIS Soc. Com. Equipamentos de Controlo, Lda. Rua Conceiçao Sameiro Antunes, 26E 2800-379 COVA DA PIEDADE	Tel: +351-21-2740606 Fax: +351-21-2740897 controlis@netc.pt
RUSSIA	NPP "GERDA" Vilisa Latsisa str. 17 Building 1 125480 MOSCOW	Tel: +7-495-7558845 Fax: +7-495-7558846 info@gerda.ru
SINGAPORE	HUBBELL INT'L (1976) PTE LTD 322 Thomson Road SINGAPORE 307665	Tel: +65-6-2557281 Tel: +65-6-2550464 Fax: +65-6-2532098 hubbell@mbox2.singnet.com.sg
SPAIN	E.N.I. Electronica y Neumatica Industrial, S.A. C/Jon Arrospide, 20 (Int.) 48014 BILBAO	Tel: +34-94-4746263 Fax: +34-94-4745868 eni.tecnica@eni.es
SWEDEN	INSTRUMENTKONTROLL Lars Petersson AB Varholmsgatan 1 414 74 GÖTEBORG	Tel: +46-31-240510 Tel: +46-31-240525 Fax: +46-31-243710 Info@instrumentkontroll.se
TURKEY	YEDI DENIZ Setustu, Izzetpasa Yok.1 TR 34427 Kabatas ISTANBUL	Tel: +90.212.251 64 10 / 3 lines Fax: +90.212.251 05 75 servicestation@yedideniz.net
UNITED ARAB EMIRATES	MARITRONICS TRADING L.L.C. P.O. Box 6488 Shed # 72, Jadaf Ship Docking Yard DUBAI	Tel: +971-4-3247500 Fax:+971-4-3242500 service@maritronics.com
UNITED KINGDOM	ENERGY MARINE (INTERNATIONAL) LTD. 12 Clipstone Brook Industrial Estate Cherrycourt Way LEIGHTON BUZZARD, BEDS LU7 4TX	Tel: +44-1525-851234 Fax:+44-1525-852345 info@engmar.com
U.S.A / TEXAS	HONEYWELL HERMETIC 4522 Center Street DEER PARK, TX 77536	Tel: +1-281-930 1777 Fax: +1-281-930 1222 Toll free call in the USA: 1-800-900 1778 hermetic@honeywell.com

5 Description

5.1 General

The **HERMetic Samplers** are designed for closed sampling of liquids or chemicals, which present a Fire-, Health- or Air pollution Hazard. The gas tight construction of these units avoids a pressure release from the tank and exposure to fumes during operation.

The equipment is designed and certified for use in potentially explosive atmospheres area.

5.2 Sampling types

Several kinds of samples can be realised with this sampler. To get different samples, 4 bottles are available: Zone bottle, Spot bottle, Running bottle and Bottom bottle.

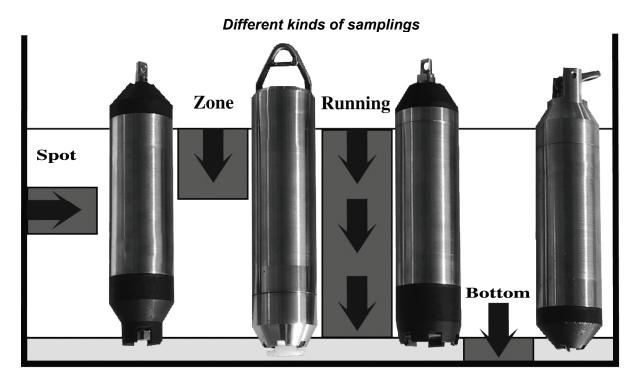
The Zone bottle allows sampling of the upper level inside the tank.

The Spot bottle allows sampling at a determinate height.

The running bottle allows sampling all along the displacement of the bottle inside the tank.

The Bottom bottle allows sampling of the tank bottom.

As far as the kinds of sampling are concerned, please refer to ISO 3170 "Petroleum liquids – Manual sampling".



All these bottle are interchangeable, please refer to § 6.1.

For specific application, other bottles exist. For further information, please contact.

The sampler is delivered as standard with zone sampling bottle. All other sampling bottles are available as option.

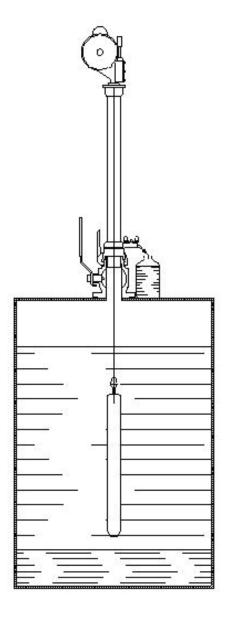
5.3 Sampling principle

5.3.1 Connection and grounding system

All HERMetic products are easy to connect. Indeed, all HERMetic devices are equipped with a quick coupler for connection on a HERMetic ball valve.

Place the unit on the appropriate valve and activate the locking system. Depending on the locking system, either rotate the collar and actuate the lever or pull on the sleeve.

If the instrument is connected to genuine HERMetic valve, grounding is effected through the quick connect coupler and the mating nipple of the valve. No additional grounding strap is necessary. For further information, please refer to §2 "Recommendation for safe use".



5.3.2 Sampling method

The sample is taken by a vertical move of the bottle inside the fluid.

The bottle is linked with a graduated tape. A reading window allows monitoring the bottle location.

For complete explanation of sampling procedures, please refer to §6 "Operation".

<u>Important note</u>: to avoid contamination of the sample taken by the sampler itself, check and clean the unit and the bottle prior to use. Clean the unit with an appropriate cleaner without impacting the unit or contamination risk of the next sample.

5.3.3 Liquid transfer

After sampling, the liquid can be transferred into a laboratory bottle through a transfer valve.

The transfer of the liquid from the sampling bottle to a laboratory bottle occurs by gravity.

The opening of the bottle valve is realized by lowering the sampling bottle until its sitting on the ball of the valve.

A pump can be used to accelerate and complete the transfer of the fluid.

6 Operation

6.1 Checking before use

Before using the sampler:

- Check the good state of the device.
- Check the cleanliness of the unit (sampler and bottle) to prevent any contamination of the sample.
- Inspect the bottle tape end for breaks, kinks and wear. If there is some damage, replace the tape before use.
- Check of the attachment of the hook locking device on the tape.
- Check the closure of the hook locking device according to Fig. 1. The swivel hook has to be locked in use.

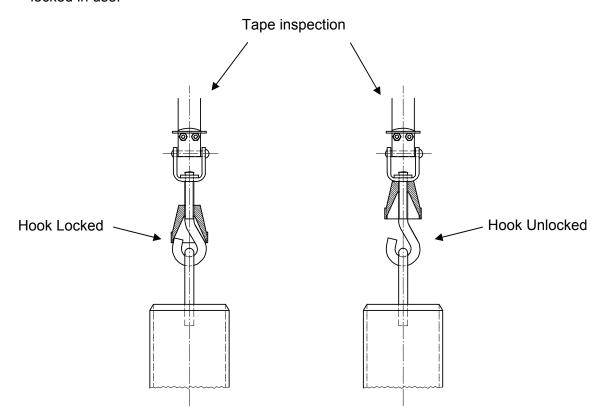


Fig. 1

Nota: Clean the instrument of any excess of liquid after use. Remove the carter winder and clean the storage tube. This cleaning must be done very properly, in particular when corrosive liquids are gauged, such as strong acids or caustic soda for instance.

Store the instrument in a dry location.

6.2 Operating the ZONE SAMPLING BOTTLE

ND	TS	DESCRIPTION							
30293	10374	Zone bottle 0,43 l. FFKM assy							

1. Install the HERMetic Sampler GTX Chem with the sampling bottle on top of the HERMetic 2" ball valve by means of the quick connect coupling.

In case the air which is inside the HERMetic Sampler housing can contaminate the sample it is recommended to purge the Sampler after it has been installed on the HERMetic 2" ball valve but **before** opening it.

- 1.1. Check that the HERMetic 2" ball valve is closed.
- 1.2. Open the transfer valve.
- 1.3. Install an inert gas bottle to the pump connector. The inert gas pressure shall not exceed 0.3 bar.
- 1.4. Apply the inert gas through the pump connector to purge the HERMetic Sampler.
- 1.5. After purging close the transfer valve.
- 2. Prepare the hose connection from the transfer valve to the laboratory bottle. Check that its capacity is at least 0.5 l.
- 3. Open the HERMetic 2" ball valve.
- 4. Lower the bottle at a speed of at least 0,5 m/sec.
 If the lowering speed is too low the liquid will not flow through the bottle as the resistance of the ball to flowing needs to be higher than the its weight to keep open the bottom of the container.
- 5. Stop the bottle at the level where the sample is to be taken.
- 6. Lift the bottle back into the HERMetic Sampler housing; turn the crank until getting a catch that keeps the tape fully tight.
- 7. Close the HERMetic 2" ball valve.
- 8. Lower the sampling bottle until sitting on the ball of the HERMetic 2" ball valve. This will open the valve of the sampling bottle.
- 9. Open the transfer valve.
- 10. Install the pump to the pump connector. If the liquid is air oxygenating install the inert gas bottle set up at 0.3 bar maximum.
- 11. With the pump (or with the inert gas) transfer the liquid from the sampling bottle to the laboratory bottle.
- 12. When the transfer is completed, close the transfer valve.
- 13. Remove the pump or the inert gas bottle.
- 14. Lift the sampling bottle and lock the crank.
- 15. Open the HERMetic 2" ball valve **no more than 30°** to drain any residual liquid back into the tank.
- 16. After draining close the HERMetic 2" ball valve.
- 17. Remove the HERMetic Sampler GTX Chem from the HERMetic 2" ball valve.

6.3 Operating the BOTTOM SAMPLING BOTTLE

	ND	TS	DESCRIPTION
0	20247	20132	Bottom bottle 0.40 I FFKM assy

1. Install the HERMetic Sampler GTX Chem with the sampling bottle on top of the HERMetic 2" ball valve by means of the guick connect coupling.

In case the air which is inside the HERMetic Sampler housing can contaminate the sample it is recommended to purge the Sampler after it has been installed on the HERMetic 2" ball valve but **before** opening it.

- 1.1. Check that the HERMetic 2" ball valve is closed.
- 1.2. Open the transfer valve.
- 1.3. Install an inert gas bottle to the pump connector. The inert gas pressure shall not exceed 0.3 bar.
- 1.4. Apply the inert gas through the pump connector to purge the HERMetic Sampler.
- 1.5. After purging close the transfer valve.
- 2. Prepare the hose connection from the transfer valve to the laboratory bottle. Check that its capacity is at least 0.5 l.
- 3. Open the HERMetic 2" ball valve.
- 4. Lower the bottom bottle to reach the tank bottom.
- 5. When the bottle bottom valve hits the tank bottom the bottle fills up automatically.
- 6. Lift the bottle back into the HERMetic Sampler housing; turn the crank until getting a catch that keeps the tape fully tight.
- 7. Close the HERMetic 2" ball valve.
- 8. Lower the sampling bottle until sitting on the ball of the HERMetic 2" ball valve. This will open the valve of the sampling bottle.
- 9. Open the transfer valve.
- 10. Install the pump to the pump connector. If the liquid is air oxygenating install the inert gas bottle set up at 0.3 bar maximum.
- 11. With the pump (or with the inert gas) transfer the liquid from the sampling bottle to the laboratory bottle.
- 12. When the transfer is completed, close the transfer valve.
- 13. Remove the pump or the inert gas bottle.
- 14. Lift the sampling bottle and lock the crank.
- 15. Open the HERMetic 2" ball valve **no more than 30°** to drain any residual liquid back into the tank.
- 16. After draining close the HERMetic 2" ball valve.
- 17. Remove the HERMetic Sampler GTX Chem from the HERMetic 2" ball valve.

6.4 Operating the SPOT SAMPLING BOTTLE

	ND	TS	DESCRIPTION
0	20253	20134	Spot bottle 0.40 I. FFKM

1. Install the HERMetic Sampler GTX Chem with the sampling bottle on top of the HERMetic 2" ball valve by means of the guick connect coupling.

In case the air which is inside the HERMetic Sampler housing can contaminate the sample it is recommended to purge the Sampler after it has been installed on the HERMetic 2" ball valve but **before** opening it.

- 1.1. Check that the HERMetic 2" ball valve is closed.
- 1.2. Open the transfer valve.
- 1.3. Install an inert gas bottle to the pump connector. The inert gas pressure shall not exceed 0.3 bar.
- 1.4. Apply the inert gas through the pump connector to purge the HERMetic Sampler.
- 1.5. After purging close the transfer valve.
- 2. Prepare the hose connection from the transfer valve to the laboratory bottle. Check that its capacity is at least 0.5 l.
- 3. Open the HERMetic 2" ball valve.
- 4. Lower the spot bottle to the level where the sample is to be taken.
- 5. Stop the bottle at this level and shake it rapidly up and down about 10 times on a 100 mm stroke. This movement has a pumping effect as the bottom ball of the container opens and closes quickly.
- 6. Lift the bottle back into the HERMetic Sampler housing; turn the crank until getting a catch that keeps the tape fully tight.
- 7. Close the HERMetic 2" ball valve.
- 8. Lower the sampling bottle until sitting on the ball of the HERMetic 2" ball valve. This will open the valve of the sampling bottle.
- 9. Open the transfer valve.
- 10. Install the pump to the pump connector. If the liquid is air oxygenating install the inert gas bottle set up at 0.3 bar maximum.
- 11. With the pump (or with the inert gas) transfer the liquid from the sampling bottle to the laboratory bottle.
- 12. When the transfer is completed, close the transfer valve.
- 13. Remove the pump or the inert gas bottle.
- 14. Lift the sampling bottle and lock the crank.
- 15. Open the HERMetic 2" ball valve no more than 30° to drain any residual liquid back into the tank.
- 16. After draining close the HERMetic 2" ball valve.
- 17. Remove the HERMetic Sampler GTX Chem from the HERMetic 2" ball valve.

6.5 Operating the RUNNING SAMPLING BOTTLE

	ND	TS	DESCRIPTION							
0	20216	20117	Running bottle 0.40 l. FFKM							

- 1. The calibration plug on top of the running bottle has to be adjusted according to the liquid to be sampled. The plug is properly set up when the transferred quantity of liquid falls between 70 and 85% of the capacity of the sampling bottle, i.e. between 0.3 and 0.35 I (API MPMS Chapter 8.1, § 8.3.3.3).
- 2. Install the HERMetic Sampler GTX Chem with the sampling bottle on top of the HERMetic 2" ball valve by means of the quick connect coupling.

In case the air which is inside the HERMetic Sampler housing can contaminate the sample it is recommended to purge the Sampler with inert gas after installation on the HERMetic 2" ball valve but **before** opening the valve.

- 2.1. Check that the HERMetic 2" ball valve is closed.
- 2.2. Open the transfer valve.
- 2.3. Install an inert gas bottle to the pump connector. The inert gas pressure shall not exceed 0.3 bar.
- 2.4. Apply the inert gas through the pump connector to purge the HERMetic Sampler.
- 2.5. After purging close the transfer valve.
- 3. Prepare the hose connection from the transfer valve to the laboratory bottle. Check that its capacity is at least 0.5 l. Draw two marks on the lab bottle at 0.3 and 0.35l.
- 4. Open the HERMetic 2" ball valve.
- 5. Lower the running bottle regularly to the appropriate depth but do not hit the tank bottom in order to keep the bottom plug closed all the time.
- 6. When the appropriate depth has been reached lift the running bottle back into the HERMetic Sampler GTX at the same regular speed. Turn the crank until getting a catch that keeps the tape fully tight.
- 7. Close the HERMetic 2" ball valve.
- 8. Lower the sampling bottle until sitting on the ball of the HERMetic 2" ball valve. This will open the valve of the sampling bottle.
- 9. Open the transfer valve.
- 10. Install the pump to the pump connector. If the liquid is air oxygenating install the inert gas bottle set up at 0.3 bar maximum.
- 11. With the pump (or with the inert gas) transfer the liquid from the sampling bottle to the laboratory bottle.
- 12. When the transfer is completed, check that the transferred liquid falls between the two marks 0.3 and 0.35 I in order to comply with API MPMS Chapter 8.1 requirements. Close the transfer valve.
- 13. Remove the pump or the inert gas bottle.
- 14. Lift the sampling bottle and lock the crank.
- 15. Open the HERMetic 2" ball valve **no more than 30°** to drain any residual liquid back into the tank.
- 16. After draining close the HERMetic 2" ball valve.
- 17. Remove the HERMetic Sampler GTX Chem from the HERMetic 2" ball valve.

7 Care & Maintenance

7.1 Safety warning

As this equipment has been certified as non-electrical equipment for potentially explosive atmospheres. Specific precautions have to be taken regarding maintenance of the device. The user can exchange parts and modules if following points are observed:

- 1. Never carry out any repair or trouble shooting in a hazardous area.
- 2. Substitution of components may impact safety. Use only original spare parts.
- 3. Work shall be done only by maintenance personnel who has experience with equipment certified for use in potentially explosive atmosphere.

The design of the equipment is modular, i.e. in case of damage, check which modules or spare parts have to be replaced. Order new parts according to enclosed drawings and specific item number TS ----. The instrument consists of the following modules:

- Mechanical parts
- Tape assembly
- Tape cleaner

7.2 Care

Clean the instrument of any excess of liquid after use. Remove the carter winder and clean the storage tube. This cleaning must be done very properly, in particular when corrosive liquids are sampled, such as strong acids or caustic soda for instance.

Store the instrument in a dry location.

Check periodically whether the general state of the device is still OK.

Check periodically whether all the sealings are still OK. Check periodically the gas-tightness of the unit up to 0.3 bars with an appropriate leak detector.

Check the tape wiper for wear. If necessary tighten it with the hexagonal key 1.3 mm.

Clean periodically the sampling bottle. Check the valves of sampling bottles for liquid leakage.

Check periodically the tape for kinks.

Check periodically the bearings state. Bearings have limited lifespan.

Check periodically (at least every 6 months) the continuity of grounding by measuring the electrical resistance between the hook lock (or the sampling bottle) and the quick connect coupler. Resistance should not exceed 100 Ω .

7.3 Sampler cleaning

It is required to fit the cleanliness level with the sample goals. Where appropriate, dismantle the sampler and clean the parts with an appropriate cleaner to prevent any contamination of the sample by the sampler itself.

7.3.1 Carter winder

To clean HERMetic Sampler, carter winder can be easily removed as well and sampling bottle detached from tape.

7.3.2 Tape cleaning

If tape requires cleaning it has to be unwound, preferably on another reel.

7.4 Tape wiper adjustment or replacement

Check the wear of the wiper. If necessary, adjust it or replace it.

- Unscrew the 2 wing screws to remove the carter winder.
- Dismantle the wiper holder by unscrewing the 2 screws.
- Remove the wiper of its box.
- Use the Allen key 1.3 mm to set the 2 wipers screws properly or exchange it.
- Put back the wiper holder and tighten the 2 screws.
- Reassemble the carter winder on the storage tube and tighten the 2 wing screws.

7.5 <u>Tape replacement</u>

- Remove the carter winder from the sampler (2 wing screws M5x20);
- Remove the tape wiper;
- Unwind totally the old tape;
- Remove the cover for winder (5 screws M4x10 side opposite to crank);
- Slacken the tape from the core:
- Remove it and unscrew the screw M4x30 tightening to the core;
- Put the new tape;
- Fasten the tape to the core with screw M4x30;
- Wind the new tape;
- Put back the cover for winder and tighten the 5 screws M4x10;
- Put back and adjust the tape wiper;
- Put back the carter winder and tighten the 2 wing screws M5x20;
- Check the tape winder for gas tightness (0.3 bar, 4.4 psi) before using again.

7.6 Bearings

Bearings are involved in the electrical safety of this device. In case of exchange, use only original spare parts.



8 Specifications

General Specifications

Tape length up to 35 m/115 ft
Tape graduation Metric/English
Tape resolution 1 mm / 1/16"

Tape accuracy ± 6.3 mm/35 m ($\pm 1/4$ "/115 ft approx.)

Liquid density up to 8kg/dm³

Ambient temperature range -20°C to 80 °C (-4°F to 176°F)

Maximum liquid temperature 80°C (176°F)

Mechanical coupling Q2 (2")

Weight 5.6 kg approx.

Dimensions 801 x 118 mm approx.

Meets ISO 3170 "Petroleum liquids – Manual sampling"

Hazardous environments approvals

ATEX KEMA 06ATEX 0027

II 1 G c IIB T6 (Ta -20 to +80°C)

Tape cleaning device Adjustable tape cleaner

Available bottles Zone, bottom, spot, running sampling bottles

Maintenance modular design / easy exchange of parts

Specifications subject to change without notice.

9 Drawings & Declaration of Conformity

These documents are enclosed in following pages.

9.1 Sampler

O = Option, according to specific order.

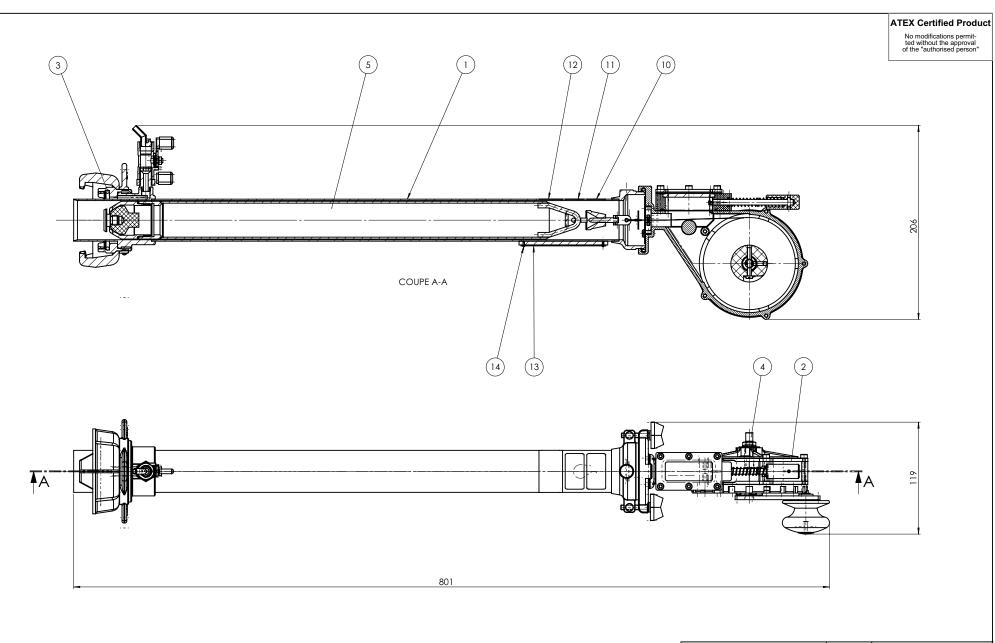
	ND	TS	DESCRIPTION
	20324	10086	Sampler GTX Chem
0	20336	98113	Sampler GTX Chem 35 m
	20281	10316	Carter winder FFKM assy
0	20330	98112A	Carter winder FFKM assy 35 m
	30610	20148	Storage tube assy
	30545	10314	Crank assy FFKM
	30237	10535	Wiper PTFE
	40520	10368	Tape assy w/o winder 30m
0	40803	10389	Tape assy w/o winder 35m
	41021	20611	Kit pump connector FFKM
	30293	10374	Zone bottle 0,43 l. FFKM assy
0	20247	20132	Bottom bottle 0.40 I FFKM assy
0	20253	20134	Spot bottle 0.40 I. FFKM
0	20216	20117	Running bottle 0.40 I. FKKM

9.2 Valves

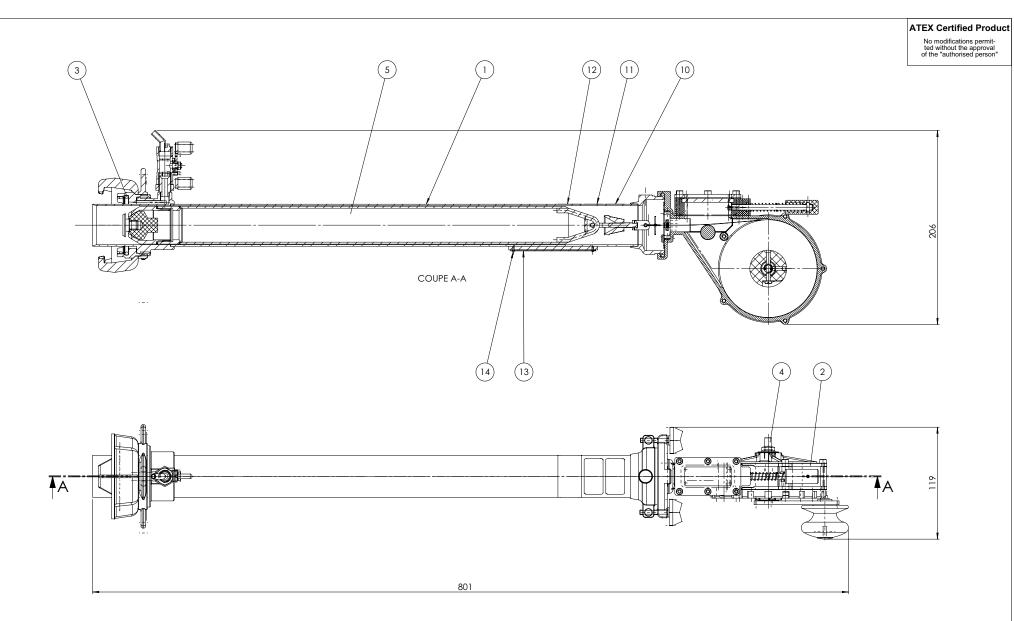
<u>Important</u>: Valves are supplied separately from Samplers. There are not included in Sampler scope of supply.

ND	TS	DESCRIPTION						
20291	10083	Valve C2-SS-W, 2" flange DUJ, weather cap						
20287	10082	Valve C2-SS-SEC, 2" flange DUJ, security cover						
20288	10081	Valve C2-SS-BL, 2" flange DUJ, blind cover						
30391	10076	Valve C2-SS-W, 2" female, weather cap						
30374	10078	Valve C2-SS-SEC, 2" female, security cover						
30596	10085	Valve C2-SS-BL G2" Female, blind cover						

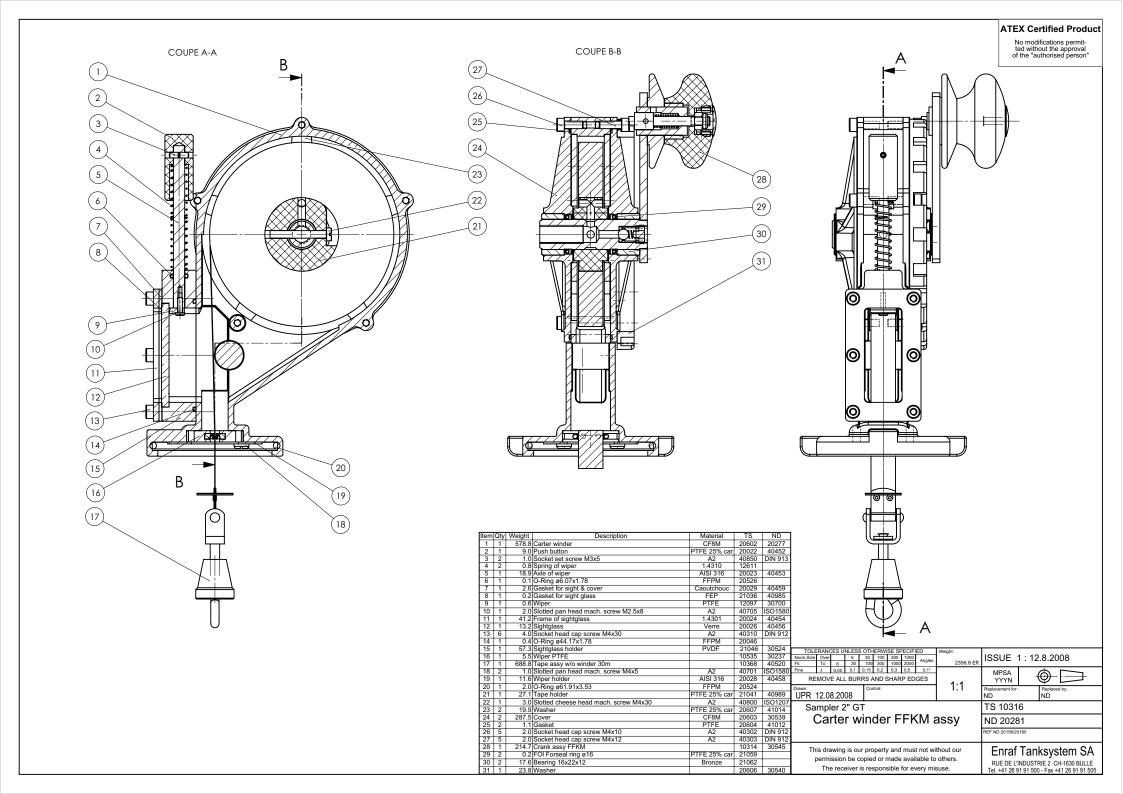
9.3 <u>Declaration of Conformity</u>

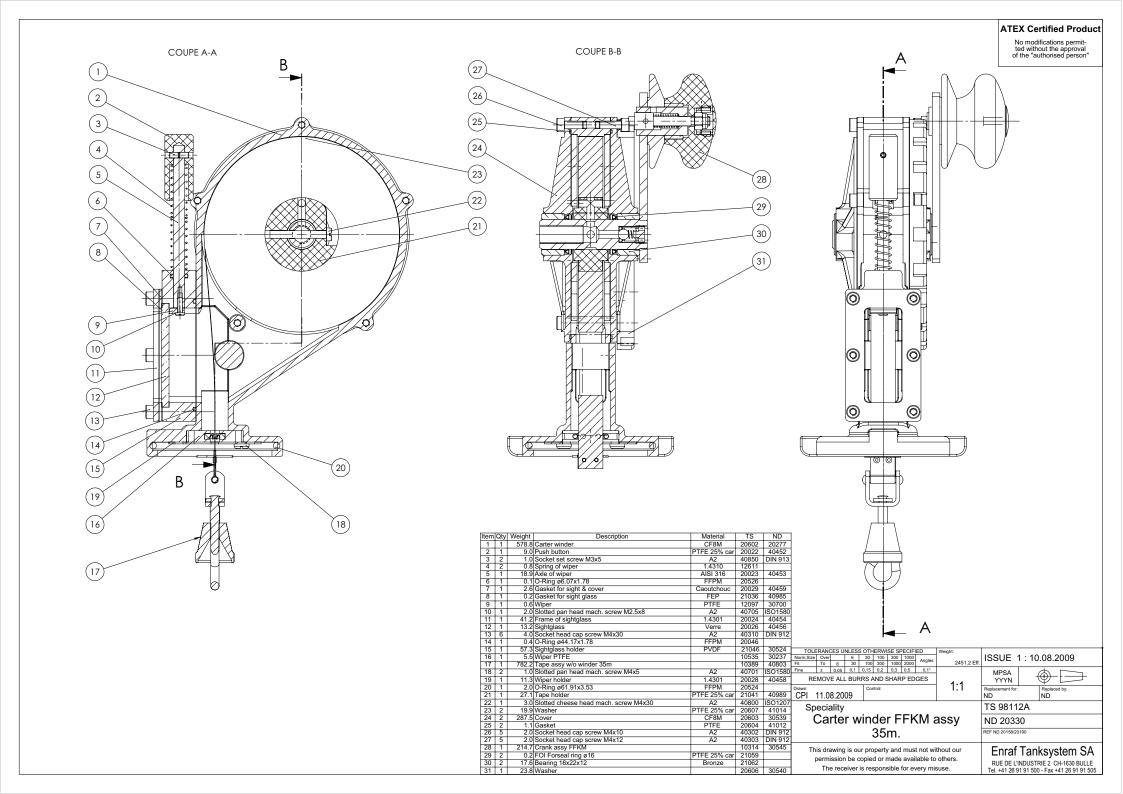


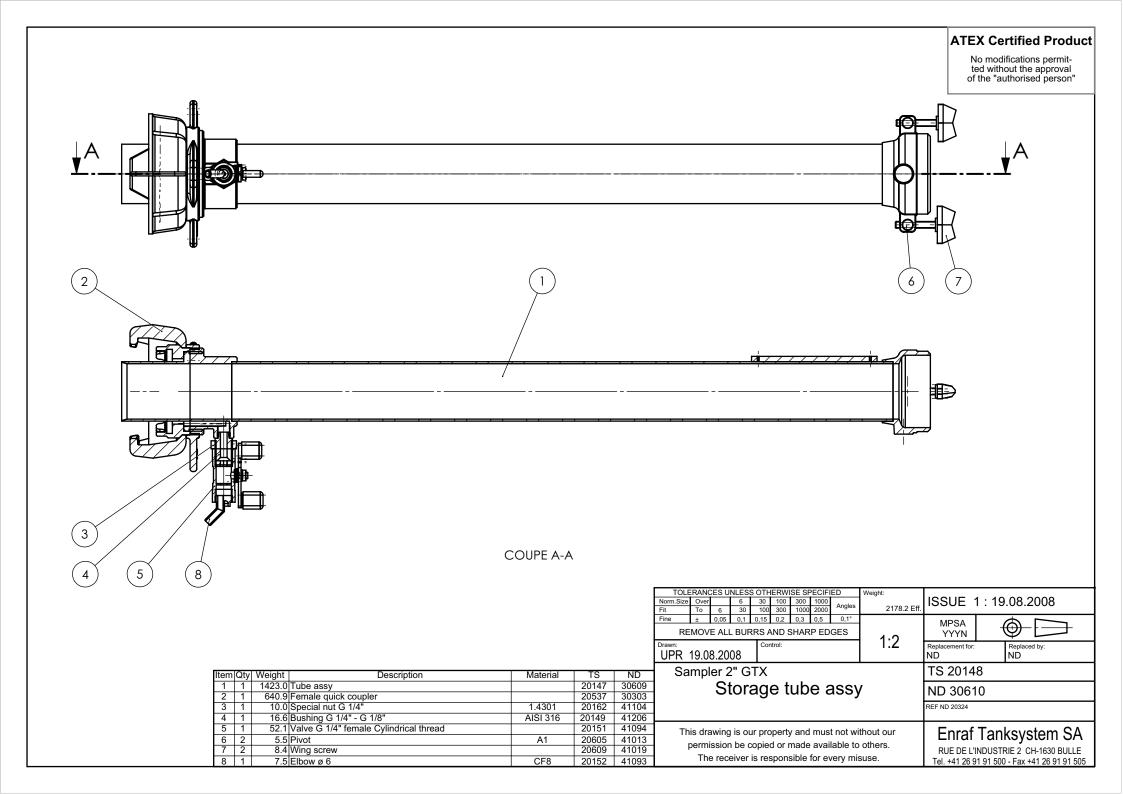
						TOLERANCES UNLESS OTHERWISE SPECIFIED Weight: Norm.Size Over							
Item	Qty	Weight	Description	Material	TS	ND	Fit To 6 30 100 300 1000 2000 Angles 12178.6 Eff. 1330E 1.19.00.2000						
1	1		Storage tube assy		20148	30610	Fine ± 0,05 0.1 0.15 0.2 0.3 0.5 0.1 MPSA						
2	1		Carter winder FFKM assy		10316	20281	REMOVE ALL BURRS AND SHARP EDGES VVVN VVVN VVVN						
3	1		O-Ring ø56.74x3.53	FFKM	20538		Drawn: Control: 1:2 Replacement for: Replaced by:						
4	1		Kit pump connector FFKM		20611	41021	UPR 19.08.2008						
5	1		Zone bottle 0.43l. FFKM assy		10374	30293							
6	1	112.0	Pump Zephal 23		10379		Sampler 2" GTX TS 10086						
7	1		Sachet PEBD 90x75		50335		Sampler GTX Chem ND 20324						
8	1	0.0	Hexagon key 1.3mm	Steel	50350	ISO2936	· · · · · · · · · · · · · · · · · · ·						
9	1		Carrying case S2GT	Wood	50338	30338	Assembly REF ND						
10	1	0.1	Label "Sampler"		50005	40344	7.000						
11	1	0.1	Label "U.S. Patent 5408890"		50055	41107	This drawing is our property and must not without our Enraf Tanksystem SA						
12	1		Label " Enraf Tanksystem"		50006	40343							
13	1		Identification plate TS 10086 SX-nnnn	ALMg3	50089	41316	RUE DE L'INDUSTRIE 2 CH-1630 BUI						
14	2	0.1	Round head grooved pin 1.4x4	A2	40760	DIN1476	The receiver is responsible for every misuse. Tel. +41 26 91 91 500 - Fax +41 26 91 91 505						



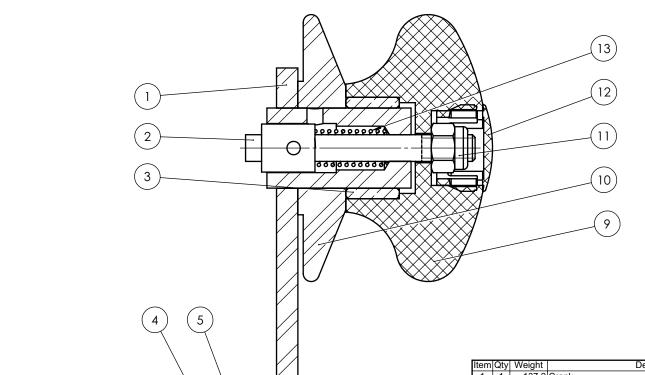
				TOLERANCES UNLESS OTHERWISE SPECIFIED						Weight:								
_							Norm.Size	Over		6	30		300		Angles		IISSUE 1	: 10.08.09
Item	Qty	Weight	Description	Material	TS	ND	Fit	To	6	30	100	300		2000		12278.1 Eff.		
1	1		Storage tube assy		20148	30610	Fine	±	0,05	0,1	0,15	0,2	0,3	0,5	0,1°	_	MPSA	
2	1		Carter winder FFKM assy 35m.		98112A	20330	RE	MOV	E ALL	BUR	RRS A	AND S	SHAR	P ED	GES	4.0	YYYN	
3	1		O-Ring ø56.74x3.53	FFKM	20538		Drawn:				Cor	ntrol:				1:2	Replacement for:	Replaced by:
4	1		Kit pump connector FFKM		20611	41021		10.0	8.200)9							ND	ND
5	1	983.4	Zone bottle 0.43l. FFKM assy		10374	30293	_							1				
6	1	112.0	Pump Zephal 23		10379		1 Sp	Speciality TS 98113							3			
7	1	0.0	Sachet PEBD 90x75		50335		Sampler GTX Chem ND 20336							6				
8	1	0.0	Hexagon key 1.3mm	Steel	50350	ISO2936		•							٥			
9	1	6640.0	Carrying case S2GT	Wood	50338	30338	1					35	m				REF ND	
10	1	0.1	Label "Sampler"		50005	40344		00111.										
11	1		Label "U.S. Patent 5408890"		50055	41107] Th	is dra	wina	is ou	ır pro	perty	v and	mus	t not w	ithout our	Enraf	Tanksystem SA
12	1		Label " Enraf Tanksystem"		50006	40343		nermission he conied or made available to others							Liliai	Talikayatelli on		
13	1		Identification plate TS 10086 SX-nnnn	1.4301	50089	41316												NDUSTRIE 2 CH-1630 BULLE
14	2	0.1	Round head grooved pin 1.4x4	A2	40760	DIN1476	1	The	e rece	iver	is res	spons	sible	tor e	ery m	isuse.	Tel. +41 26 9	1 91 500 - Fax +41 26 91 91 505







No modifications permit-ted without the approval of the "authorised person"



Item	Qty	Weight	Description	Material	TS	ND
1	1		Crank	1.4401	21034	30521
2	1		Finger	1.4401	21047	40991
3	1	8.6	Bearing 15x19x10	Bronze	21049	
4	1		Ball ø 5,556 (7/32")	1.4435	11129	
5	1		Spring	1.4310	20103	
6	1	0.0	O-Ring ø4.47x1.78	FFPM	21050	
7	1	1.3	Tube	1.4401	20099	40804
8	1	1.6	Spring holder	1.4401	20105	40808
9	1	44.7	Knob	PF 31	21048	40992
10	1	9.3	Washer	PE-HD	11052	40563
11	1		Prevailing torque hex nut M5	A2	40009	DIN 985
12	1		Cap for knob	PE-HD	11054	40182
13	1	0.5	Crank spring	1.4310	11500	

ISSUE 1:7.8.2008 214.7 Eff. MPSA REMOVE ALL BURRS AND SHARP EDGES YYYN 2:1 Drawn: UPR 07.08.2008 Replacement for: Replaced by: ND Sampler 2" GT Crank assy FFKM TS 10314

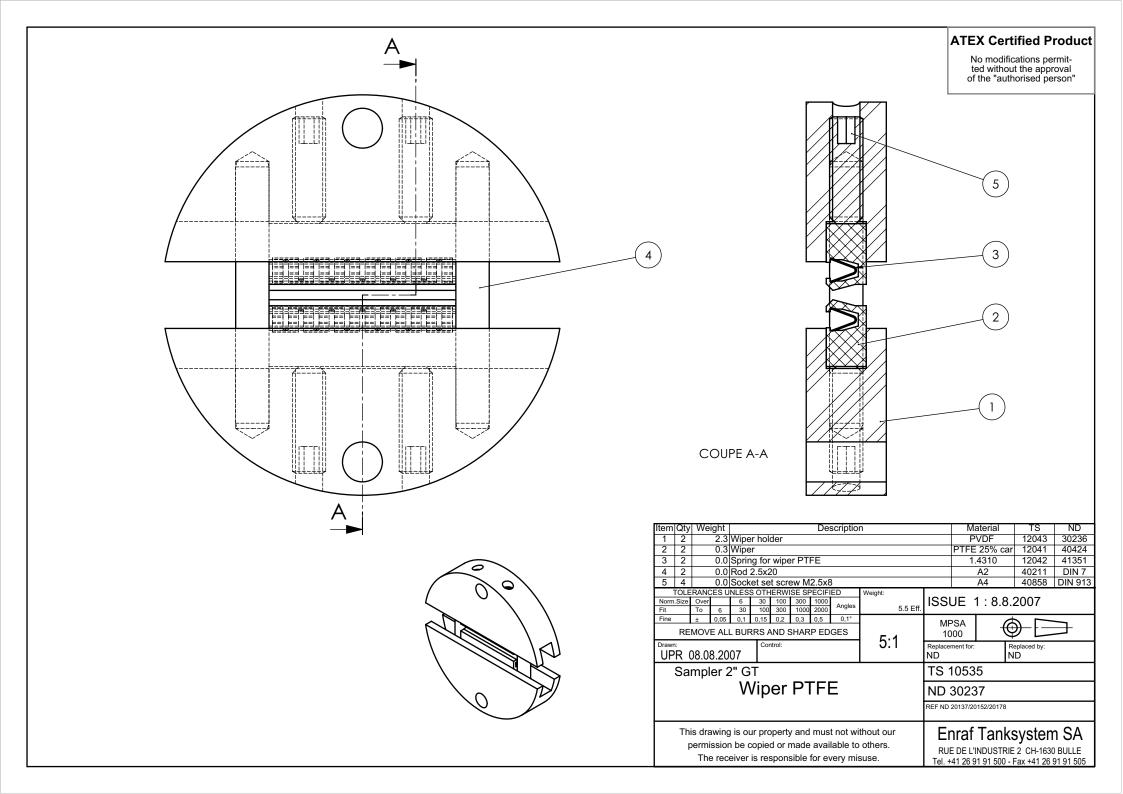
ND 30545

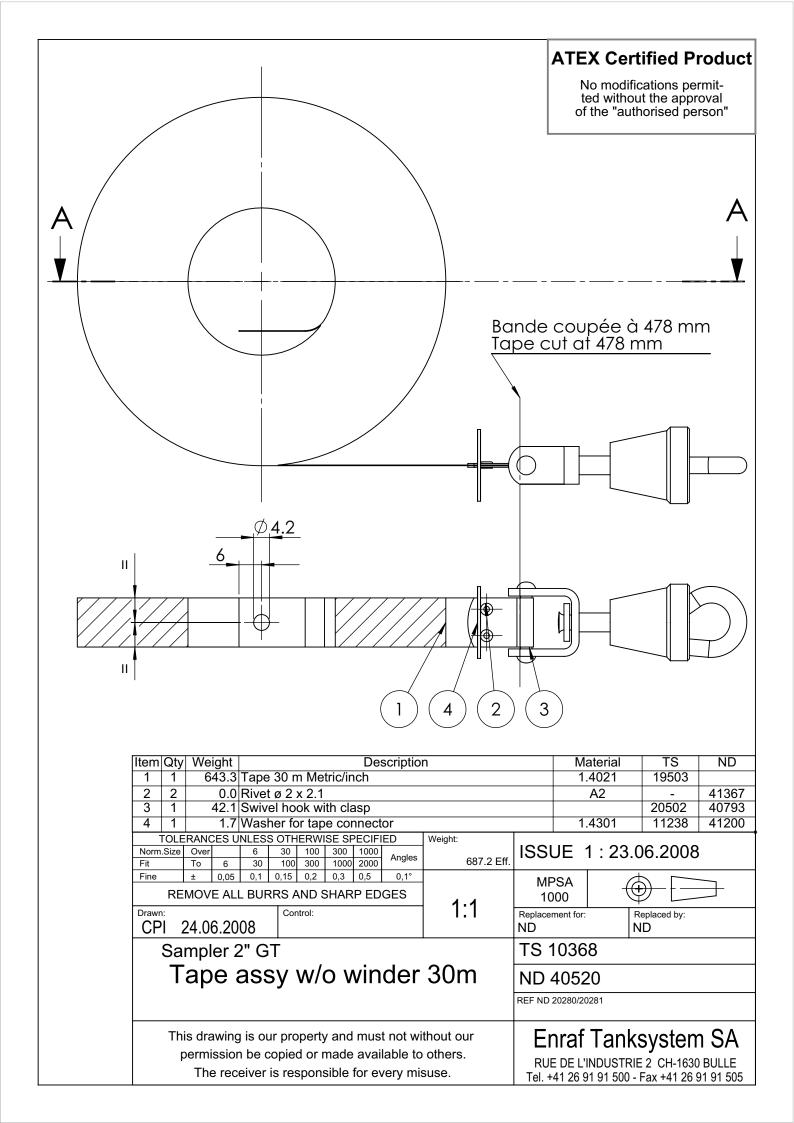
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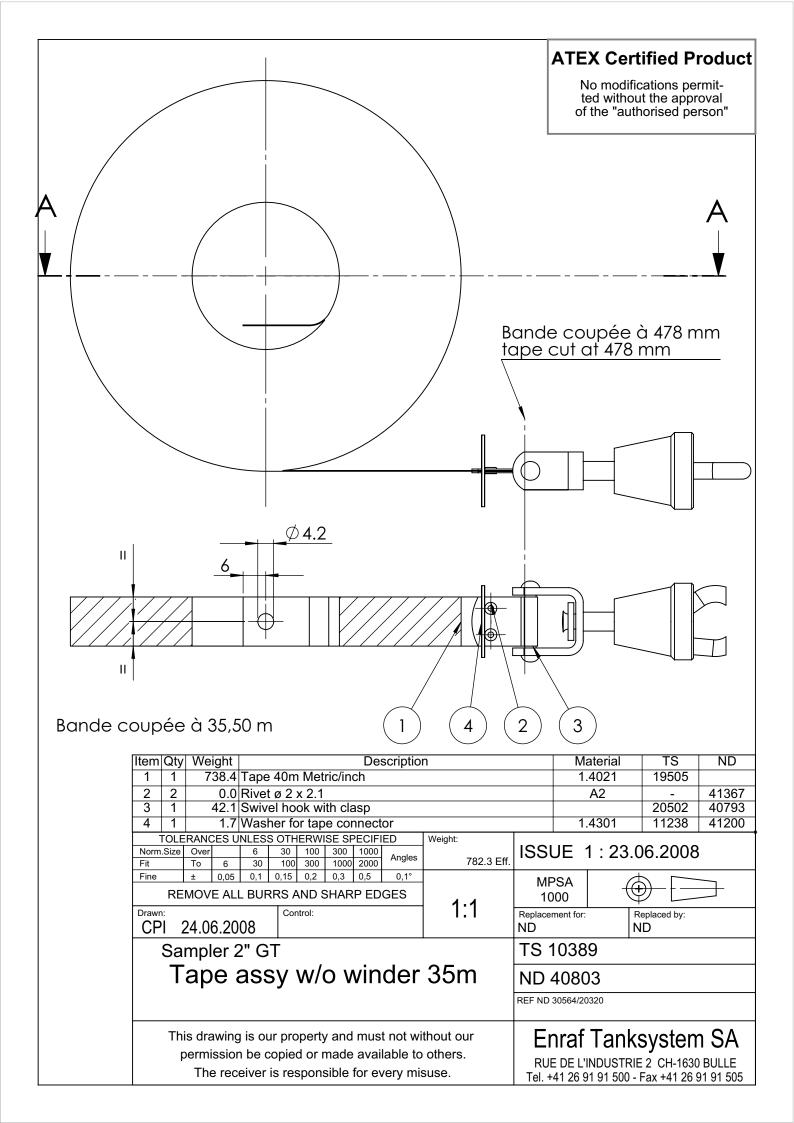
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Enraf Tanksystem SA

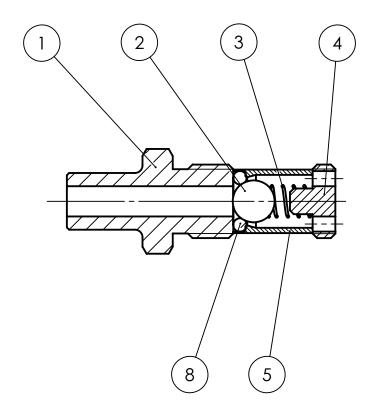
RUE DE L'INDUSTRIE 2 CH-1630 BULLE Tel. +41 26 91 91 500 - Fax +41 26 91 91 505





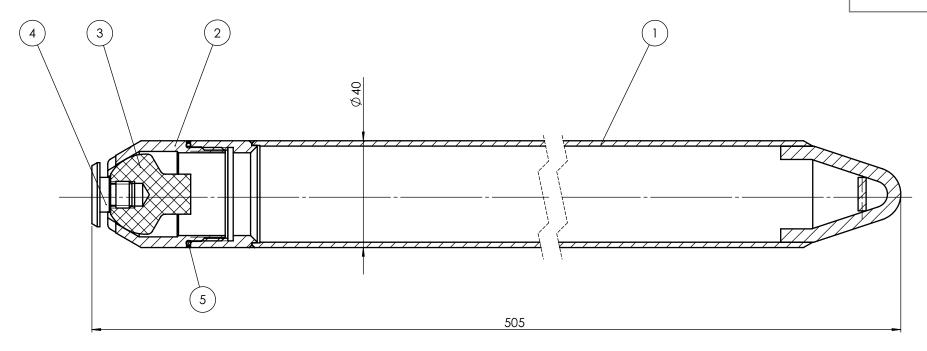


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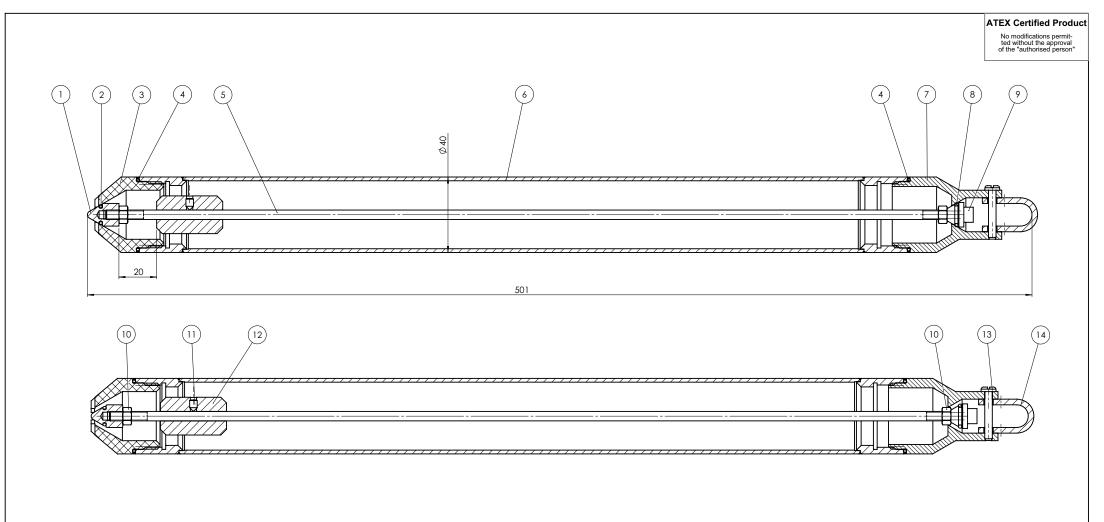


Item	Qty	Weight	Descriptio	n		M	aterial	TS	ND
1	1	9.7	Check valve seat			1.	4401	20100	40805
2	1	0.7	Ball ø 5,556 (7/32")			1.	4435	11129	
3	1	0.0	Spring			1.	4310	20103	
4	1	1.6	Spring holder			1.	4401	20105	40808
5	1	1.3	Tube			1.	4401	20099	40804
8	1	0.0	O-Ring ø4.47x1.78			F	FPM	21050	
7	1	6.0	Sachet PEBD 90x75					50335	
Norm Fit		RANCES U Over To 6	STATES S	ISSI	JE ·	1 : 12.8	3.2008		
Fine	REI	± 0,05 MOVE AL	0,1 0,15 0,2 0,3 0,5 0,1° L BURRS AND SHARP EDGES		PSA /YN	Ψ		\Rightarrow	
UP UP		2.08.20	Control:	2:1	Replacer ND	ment for:		Replaced by: ID	
		mpler 2			TS 2	2061	1		
	K	lit pu	mp connector F	FKM	ND 4	4102	21		
					REF ND	20158			
		ermissio	g is our property and must not win be copied or made available to beiver is responsible for every mis	others.	RUE	E DE L'	NDUSTRIE	systen E 2 CH-1630 Fax +41 26 9	BULLE

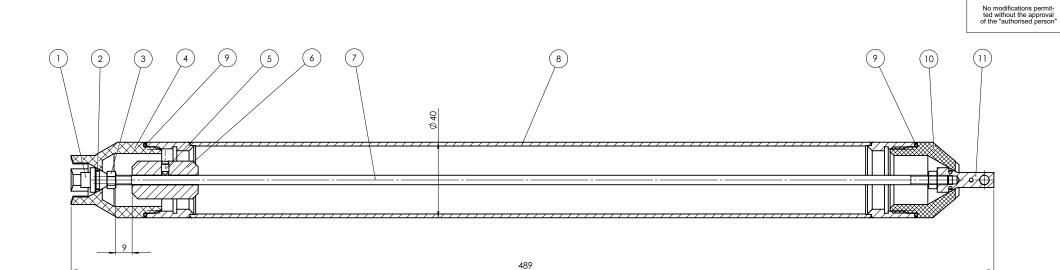
No modifications permitted without the approval of the "authorised person"

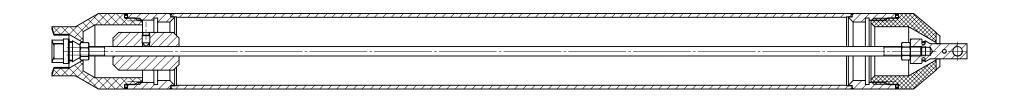


Item	Qty	Wei	ight					De	scriptio	n		Ma	aterial	TS	ND
1	1	8	41.1	Bottle	e 0,	43 I.						1.	.4435	20048	30294
2	1	1	13.1	Seat								1.	.4435	20049	40592
3	1		24.7	Botto	m ۱	/alve						Р	TFE	20050	41062
4	1		4.2	Valve	e sc	rew						Р	VDF	20051	40593
5	1		0.3	O-Ri	ng ø	ø34.65	x1.7	8				F	FPM	20045	
	TOLE	RANC	ES U	NLES	S OT	HERW	ISE S	PECIF	IED	Weight:					
Norm Fit	.Size	Over	6	6 30	30		300 1000	983.4 Eff.	ISSI	JE 2	2 : 13.	8.2008			
Fine		±	0,05	0,1	0,15	5 0,2	0,3		NAC	PSA		$\overline{+}$	_		
	RE	MOV	E ALI	BUF	≀RS	AND	SHAF	1.4		/YN	(-		
Drawr					С	ontrol:				1:1	Replace	ment for:		Replaced by:	
l UP	'R	13.08	8.20	80	1						ND			ND	
				2" G							TS 1	1037	4		
2	Zo	ne	bo	ottl	е	0.4	-31	. FI	FK۱	<i>I</i> I assy	ND:	3029	93		
											REF ND	20158			
		ermi	ssior	be c	opi	ed or	made	avai		ithout our o others. suse.	RUE	E DE L'I	INDUSTR	(systen IE 2 CH-1630 - Fax +41 26 !	BULLE



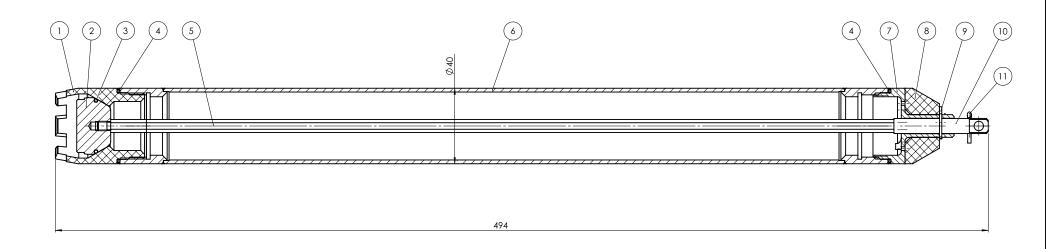
1 1 8.8 Bottom valve 1.4401 20125 408 3 1 0.1 O-Ring ø6.75x1.78 FFPM 12057 3 1 39.2 Seat PTFE 25% car 20131 304 4 2 0.3 O-Ring ø34.65x1.78 FFPM 20045 1 5 1 7.1 I Rod 1.4401 20122 406 6 1 806.7 Bottle 0,40 I. 1.4401 20128 304 7 1 149.5 Top cover 1.4401 20128 304 8 1 0.1 O-Ring ø9.25x1.78 FFPM 20527 9 1 7.5 Upper valve 1.4401 20130 405 10 2 2.0 Hex nut M5 A2 40862 DIN 11 1 2.0 Socket set screw M4x6 A2 40862 DIN 12 1 7.9 Load 1.4401 20127 405 3 1 3.0/Slotted pan head mach. screw M4x25 A2 40703 180 <th></th>																	
2 1 0.1 0.5 king @6.75x1.78		Qty							De	scriptio	n					ND	
3 1 39,2 Seat																40962	2_
4 2 0.3 O-Ring a34.65x1.78		1		0.1	O-Rir	ng ø6	.75x	1.78					F	FPM	12057		
1	3		3	39.2	Seat											30495	5_
6 1 806.7 Bottle 0.401. 1.4432 20112 304 7 1 1449.5 Top cover 1.4401 20128 304 8 1 1 0.1 0-Ring ø9.25x1.78 FFPM 20527 9 1 7.5 Upper valve 1.4401 20123 0.000 10 2 2.0 Hex nut M5 A2 40005 ISO4 11 1 2.0 ISocket set screw M4x6 A2 40005 ISO4 11 1 1 2.0 ISocket set screw M4x6 A2 40005 ISO4 13 1 3.0 ISlotted pan head mach. screw M4x25 A2 40703 ISO1 13 1 3.0 ISlotted pan head mach. screw M4x25 A2 40703 ISO1 14 1 1 8.5 Clip 1.4001 20127 M0 TOLERANCES UNLESS OTHERWISE SPECIFIED Weight TOLERANCES UNLESS OTHERWISE SPECIFIED Weight Fig. To 6 8 30 100 300 1000 2000 Angles Fig. To 6 8 30 100 300 1000 2000 Angles REMOVE ALL BURRS AND SHARP EDGES UPP 05.09.2008 Sampler 2" GTN Chem TS 20132		_				ng ø3	4.65	x1.7	8								Ι
7																40963	
8 1 0.								_								30462	
9 1			14					_								30494	_
10 2 2 2 2 2 2 2 2 2								1.78									
11 1 2.0 Socket set screw M4x6													1.			40961	
12 1 77.9 Load 1 A401 20127 408 403 13 1 3 0 Solotted pan head mach. screw M4x25 A2 A0703 ISO1 41 1 8 5 Clip 1 A301 20129 408 A0703 ISO1 A0703																ISO403	
13 1 3.0 Slottled pan head mach. screw M4x25							scre	ew M	4x6							DIN 91	
14 1			7									1.			40964		
TOLERANCES UNLESS OTHERWISE SPECIFIED New State New 1						ed pa	n he	ad m	ach.	screw I	M4x25					ISO158	
Nom Size Over 6 30 100 300 1000 Aurgles 1170.8 Eff. To 6 6 30 100 300 1000 2000 Aurgles 1170.8 Eff. To 6 50 100 300 1000 2000 Aurgles 1170.8 Eff. ISSUE 1 : 05.09.2008												1.	4301	20129	40965	_	
True				ES U						ED	Weight:	l.oc.		4 . 05 0	0 0000	_	Ī
REMOVE ALL BURRS AND SHARP EDGES 1:1 MPSA YYYN Propince William William		Size		6						Angles	1170.8 Eff.	lissi	υĖ ΄	1:05.0	9.2008	5	
REMOVE ALL BURRS AND SHARP EDGES Proven: UPR 05.09.2008 Sampler 2" GTN Chem TS 20132										0,1°	1	NAT.	26.4		$\overline{}$	_	
UPR 05.09.2008 ND ND Sampler 2" GTN Chem TS 20132		REI	MOVE	ALI	BUR	RS A	ND S	SHAR	P ED	GES	1 4.4			€	ナヒ]	
Sampler 2" GTN Chem TS 20132						Cont	trol:				1 1:1	Replace	ment for:	Re	placed by:		
	UPI	<u>R (</u>)5.09	9.20	08	丄						ND		N	D .		┙
Bottom bottle 0.40l FFKM assy ND 20247	5	Sai	mple	er 2	?" G	TN	Che	эm				TS 2	2013	2			Ī
	В	ot	ton	n l	bot	tle	0.	40)IF	FK	M assv	ND:	2024	17			
REFIND								_		-	3	-					4
KEF NU												LKET ND					
This drawing is our property and must not without our Enraf Tanksystem SA		Thi	s dra	wina	ı is ou	ır pro	pertv	and	mus	t not wi	ithout our	F	nraf	Tanks	veton	1 SA	
		permission be copied or made available to others.															
RUE DE L'INDUSTRIE 2 CH-1630 BULL																	
The receiver is responsible for every misuse. Tel. +41 26 91 91 500 - Fax +41 26 91 91 5		_	ine	rece	eiver.	is res	pons	sible	ior e	very mi	suse.	Tel. +	41 26 9	1 91 500 - F	ax +41 26 !	91 91 505	╚

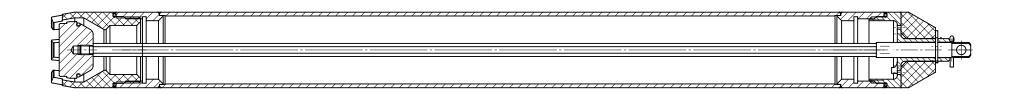




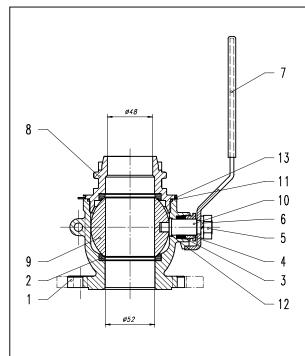
tem	Qty	We	ight					Des	criptio	n		M	aterial	TS	ND
1	1		7.5	Uppe	r valv	е						1.	4401	20130	40961
2	2		0.1	O-Rir	ıg ø6.	75x	1.78					F	FPM	12057	
3	2		2.0	Hex r	ut M5	5							A2	40005	ISO4032
4	1		43.5	Spot	cover							PTFE	25% car	20135	30509
5	1		2.0	Socke	et set	scre	w M4	1x6					A2	40862	DIN 914
6	1		77.9	Load								1.	4401	20127	40964
7	1		71.1									1.	4401	20126	40963
8	1	8		Bottle									.4432	20112	30462
9	2			O-Rir	ıg ø34	4.65	x1.78						FPM	20045	
10	1			Seat									25% car		30495
11	1			Spot								1.	4401	20136	40976
			ES U	NLESS					D	Weight:	۱. ـ .				
Norm	.Size	Over	6	6 30		100 300		1000 2000	Angles	1060.2 Eff.	liss	SUE	1:05.0	09.2008	3
Fine		±	0,05	0,1	0,15	0,2	0,3	0,5	0,1°		_	/IPSA			
	RE	MOV	E AL	L BUR	RS Al	ND S	HARE	P EDG	SES	4.4		YYYN	<i>y</i>		→
Drawn					Contr	rol:				1:1		cement for:		Replaced by:	
UP	R (05.0	9.20	80							ND		١	ND.	
				2" G							TS	2013	4		
	,	Sp	ot	bo	ttle	9 0	.40) I.	FF	KM	NE	2025	53		
											REF N	D			
											⊢				
	Thi	is dra	wing	j is ou	r prop	erty	and	must	not wi	thout our	ΙE	nraf	Tank	syster	n SA
	р	ermi	ssior	n be o	opied	or n	nade	availa	able to	others.				E 2 CH-163	
		The	e rec	eiver i	s resp	oons	ible f	or eve	ery mis	suse.				Fax +41 26	

No modifications permitted without the approval of the "authorised person"





item	Qty	vve	ignt					De	scriptio	n			IVI	ateriai	1	0	INL	,
1	1			Seat										25% ca			304	
2	1			Botto										4401		115	408	96
3	1			O-Rir							_			FPM		060		
4	2			O-Rir		4.65	x1.78	8						FPM		045		
5	1			Stem							_			4401		116	408	
6	1			Bottle							Ξ			.4432		112	304	
7	1			Calib	ratior	ı plu	g _				Ξ			4401	201		304	
8	1		22.9											25% ca			304	
9	1			Circli										SI 431		909	DIN6	
10	1			Coup									1.	4401	201	119	408	
11	1		0.0	Cotte	r pin	2x10)							A2	402	218	DIN	94
			CES U	NLESS					ED	Weight:	П							
Norm	Size	Over	6	6	30 100	100	300	1000	Angles	1146.3 FI	_{if}	ISSI	JE 3	3:04.0	09.2	008	,	
Fine		+	0.05	0.1	0.15	0.2	0.3	0.5	0.1°	1140.5 E	-				_	_		-
	DE	_		BUR						1	- 1		SA	· ()) —	ĻΞ	\Rightarrow	
_		IVIOV	L ALI	BUN		_	OI IAIN	- LU	GLS	1:1	Į		/YN		₹	_	_	
Drawn		1 0	n	00	Con	trol:				1.1	- 1	Replacer	ment for:		Replaced	i by:		
U٢	K (04.09	9.20	UŌ							┙	ND			ND			
	Sai	mpl	er 2	2" G	TN	Che	em				١	TS 2	2011	7				
	Rι	ını	nir	ıa b	oot	tle	0	.40) I. F	FKM	ı	ND 2	2021	6				
				Э,			•				Į	REF ND						
_	This drawing is our property and must not without our												vrof	Tank	CVC	ton	. 6/	_
						. ,					- 1	 	IIdl	Tank	5y5	ıen	1 3	٦.
	þ									others.	- 1	RUE	DE L'I	INDUSTRI	E 2 CH	1-1630	BULLI	E
	The receiver is responsible for every misuse.											Tel. +	41 26 9	1 91 500 -	Fax +4	11 26 9	31 91 5	05
											_							



TS 10413 ND 20283

Valve fits on flange:

DIN PN10 DN50

DIN PN16 DN50

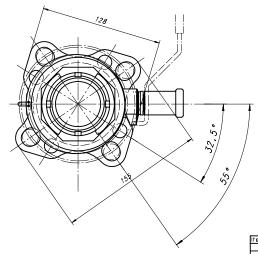
DIN PN25 DN50

DIN PN40 DN50

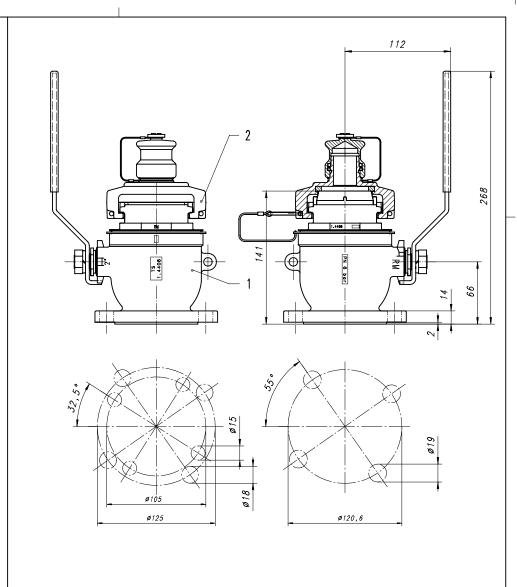
JIS 5K 50

JIS 10K 50

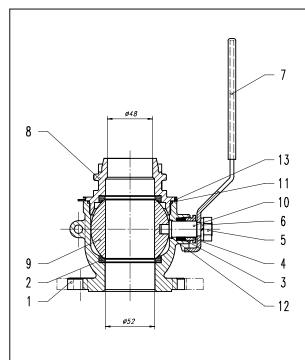
ANSI 1501bs 2"



ltem	Qt	Weight	Description	Material	TS #	ND #
1	1	0	Body DUJ	1.4408	22649	-
2	2	0	Seat Ø 53/66 x 6	PTFE	22630	40772
3	1	0	Stem packing ø 17/23.9 x 8.5 (2pces)	PTFE	22631	40773
4	1	0	Gland	AISI 304	22632	40774
5	1	0	Nut	AISI 304	22633	-
6	1	0	Spring washer	AISI 304	22634	-
7	1	207	Handle	AISI304/PE	22635	40775
8	1	0	End cap	1.4408	22650	-
9	1	0	Ball DIN	1.4436	22645	40780
10	1	0	Stem	AISI 316	22638	40777
11	1	0	Gasket Ø 86/90 x 2.5	PTFE	22640	40778
12	1	0	Gasket ø 17/19 x 1	PTFE	22641	40779
13	1	0	Washer for cable on valve	AISI 304	22648	40996



	ſ	Item	Qt	We	ìght					Des	scriptio	in		M	aterial	TS #	ND	#
	Γ	1	1	4	480	Comp	act v	alve	[2 D	IJ				-		10413		20283
ſ	П	2	1	Т	590	Cove	r wit	h we	ather	сар				-		10415		41040
		Norm.S Fit	ze (ERAN ver o	CES UI	NLESS 6 30	0THE 30 100	100 300	SPEC 300 1000	1000 2000	Angles	Weight: 5070 Th. O Eff.	ISSU	JE 2	2 : 16	.2.19	99	
		Fine ± 0.05 0.1 0.15 0.2 0.3 0.5 0.1 REMOVE ALL BURRS AND SHARP EDGES										1.0	MPS 311		(€		3	-
	cat ion	UPR 27.11.1996 CPI 06.01.1997												ment f	or: Re	eplaced by:)		
- 1	≔Ι		a l			_							TS 1	300	33			
ļ	Pog	HE	.RM	e t								22-SS-W	ND 2	2029	91			
	۷isa					2"	f	l ar	ige	DL	IJ		REF ND					
	ls Date		ī	peri	missio	n be	copie	or m	ade av	ailab	ot witho le to otl ery misu:	iers.	Enr RUE D Tel. +	E L'I	NDUSTRIE 2	System 2 CH-1630 Fax +41 26 9	BŲ	LLE



TS 10413 ND 20283

Valve fits on flange:

DIN PN10 DN50

DIN PN16 DN50

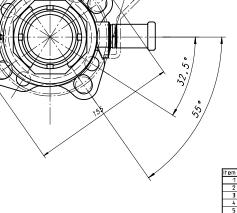
DIN PN25 DN50

DIN PN40 DN50

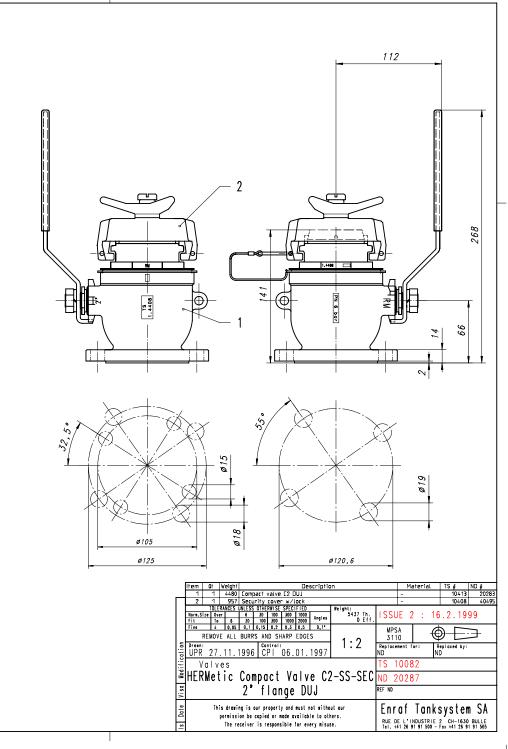
JIS 5K 50

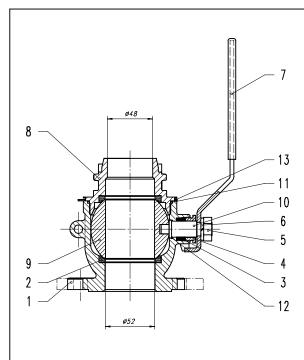
JIS 10K 50

ANSI 1501bs 2*



Item	Qt	Weight	Description	Material	TS #	ND #
1	1	0	Body DUJ	1.4408	22649	-
2	2	0	Seat ø 53/66 x 6	PTFE	22630	40772
3	1	0	Stem packing # 17/23.9 x 8.5 (2pces)	PTFE	22631	40773
4	1	0	Gland	AISI 304	22632	40774
5	1	0	Nut	AISI 304	22633	-
6	1	0	Spring washer	AISI 304	22634	-
7	1	207	Handle	AISI304/PE	22635	40775
8	1	0	End cap	1.4408	22650	-
9	1	0	Ball DIN	1.4436	22645	40780
10	1	0	Stem	AISI 316	22638	40777
11	1	0	Gasket Ø 86/90 x 2.5	PTFE	22640	40778
12	1	0	Gasket ø 17/19 x 1	PTFE	22641	40779
13	-1	0	Washer for cable on valve	AUST 304	22648	40996





TS 10413 ND 20283

Valve fits on flange:

DIN PN10 DN50

DIN PN16 DN50

DIN PN25 DN50

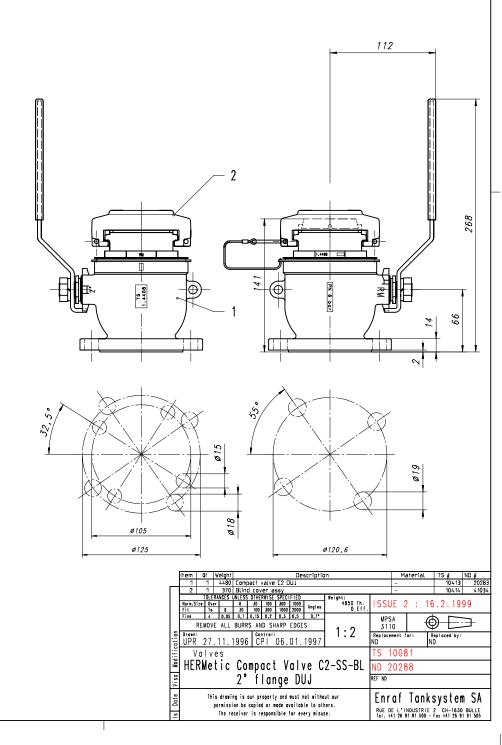
DIN PN40 DN50

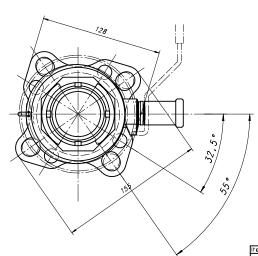
JIS 5K 50

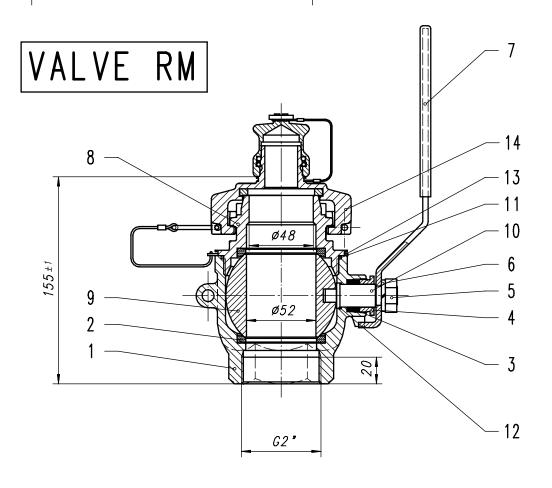
JIS 10K 50

ANSI 1501bs 2*

Item	Qt	Weight	Description	Material	TS #	ND #
1	1	0	Body DUJ	1.4408	22649	-
2	2	0	Seat ø 53/66 x 6	PTFE	22630	40772
3	1	0	Stem packing ø 17/23.9 x 8.5 (2pces)	PTFE	22631	40773
4	1	0	Gland	AISI 304	22632	40774
5	1	0	Nut	AISI 304	22633	-
6	1	0	Spring washer	AISI 304	22634	-
7	1	207	Handle	AISI304/PE	22635	40775
8	1	0	End cap	1.4408	22650	-
9	1	0	Ball DIN	1.4436	22645	40780
10	1	0	Stem	AISI 316	22638	40777
11	1	0	Gasket Ø 86/90 x 2.5	PTFE	22640	40778
12	1	0	Gasket ø 17/19 x 1	PTFE	22641	40779
13	- 1	0	Washer for cable on valve	AOF IZIA	22648	40996

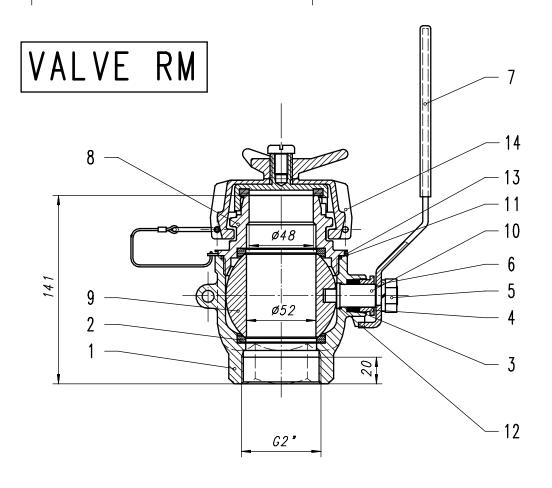






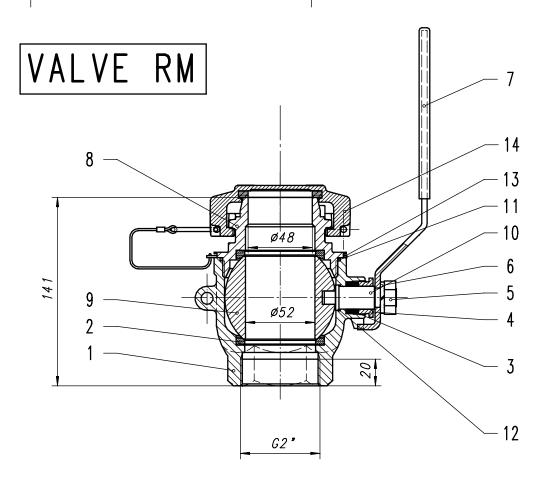
									L	14 1 370 cover with weather cap	10413 41040
										$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ISSUE 3 : 25.6.1999
It	em	۵t	Weight	Description	Material	TS#	ND #	1		Fine ± 0,05 0,1 0,15 0,2 0,3 0,5 0,1°	MPSA 💍
	1	1	0	Body 2" female	1.4408	22646	-	1		REMOVE ALL BURRS AND SHARP EDGES	MPSA 4110
	2	2	0	Seat Ø 53/66 x 6	PTFE	22630	40772		티	Drawn: Control: 1:2	Replacement for: Replaced by:
	3	1		Stem packing ø 17/23.9 x 8.5 (2pces)	PTFE	22631] :	핆	Drawn: UPR 21.04.1994 Control: 1:Z	ND ND
	4	1	0	Gland	AISI 304	22632	40774				TS 10076
	5	1	0	Nut	AISI 304	22633	-	g :	Ξl	Valves	13 10076
	6	1	0	Spring washer	AISI 304	22634	-	+ Pos. 1	흵	HERMetic Compact Valve C2SS	ND 30391
	7	1	207	Handle	AISI304/PE	22635	40775	╙		_ !	ND 30331
	8	1	0	End cap	1.4408	22650	-	흌.	.의	2º Female	REF ND
	9	1	0	Ball 2"	1.4436	22645	40780				
	10	1	0	Stem	AISI 316	22638	40777	နြူ	σ.	This drawing is our property and must not without our	Enraf Tankayatam CA
	11	1	0	Gasket ø 86/90 x 2.5	PTFE	22640	40778	[::]	힑	permission be copied or made available to others.	Enraf Tanksystem SA
	12	1	0	Gasket ø 17/19 x 1	PTFE	22641				The receiver is responsible for every misuse.	RUE DE L'INDUSTRIE 2 CH-1630 BULLE
	13	1	0	Washer for cable on valve	AISI 304	22648	40996	-7	<u>s</u>	the receiver is responsible for every misuse.	Tel. +41 26 91 91 500 - Fax +41 26 91 91 505
				·	•			\neg		·	

Material



									14 1 337 Secarity Cote: #7 Cock					
									TOLERANCES UNLESS OTHERWISE SPECIFIED Norn.Size					
Item	0	ìt l	Weight Description	Material	TS #	ND #	l I	F	Fine ± 0,05 0,1 0,15 0,2 0,3 0,5 0,1° MPSA MPSA					
		1	0 Body 2" female	1.4408	22646	-	H		REMOVE ALL BURRS AND SHARP EDGES 1 0 MPSA 4110					
2	:	2	0 Seat ø 53/66 x 6	PTFE	22630	40772		티	Drawn: Control: 1:2 Replacement for: Replaced by:					
3		1	0 Stem packing ø 17/23.9 x 8.5 (2pces)	PTFE	22631	40773	:	핆	Drawn: UPR 21.04.1994 Control: 1:2 Replacement for: Replaced by: ND ND					
4		1	0 Gland	AISI 304	22632	40774	≃ .	.≌►	V-1					
5		1	0 Nut	AISI 304	22633	-	:اي ا	ŭI	valves 15 10076					
6		1	0 Spring washer	AISI 304	22634	-	[^수]:	흶	HERMetic Compact Valve C2-SS-SECIND 30374					
7	·	1	207 Handle	AISI304/PE	22635	40775	\vdash	⊣'	TERMICETO COMPACE VALVE OF 33 SECTION 30374					
8	i	1	0 End cap	1.4408	22650	-	흌	.B	Valves HERMetic Compact Valve C2-SS-SEC ND 30374 2° Female					
9		1	0 Ball 2"	1.4436	22645	40780	-1	>	2 1 3 11 3 1 3					
10		1	0 Stem	AISI 316	22638	40777	န္က	a)	This drawing is our property and must not without our Enraf Tanksystem SA					
11		1	0 Gasket ø 86/90 x 2.5	PTFE	22640	40778	This drawing is our property and must not without our permission be copied or made available to others.							
12		1	0 Gasket ø 17/17 x 1	PTFE	22641	40779	79 The receiver is responsible for every misuse. RUE DE L'INDUSTRIE 2 CH-1630 BUL							
13		1	0 Washer for cable on valve	AISI 304	22648	40996	40996 ← ⊆ Tel. +41 26 91 91 500 - Fax +41 26 91 91 50							

Material TS#



							l L
Item	۵t	Weight	Description	Material	TS #	ND #	ŀ
1	1	0	Body 2" female	1.4408	22646	-	
2	2	0	Seat Ø 53/66 x 6	PTFE	22630	40772	티
3	1	0	Stem packing ø 17/23.9 x 8.5 (2pces)	PTFE	22631	40773	╼
4	1	0	Gland	AISI 304	22632	40774	l.≌ †
5	1	0	Nut	AISI 304	22633	-	ij.
6	1	0	Spring washer	AISI 304	22634	-	흶
7	1	207	Handle	AISI304/PE	22635	40775	Н
8	1	0	End cap	1.4408	22650	-	.20
9	1	0	Ball 2"	1.4436	22645	40780	>
10	1	0	Stem	AISI 316	22638	40777	a)
11	1	0	Gasket ø 86/90 x 2.5	PTFE	22640	40778	힣
12	1	0	Gasket ø 17/19 x 1	PTFE	22641	40779	二
13	1	0	Washer for cable on valve	AISI 304	22648	40996	S

	Item	۵t	Weight		Description							Material		TS #	ND #		
	14	1	370	Blind	Blind cover assy							-		10414	41034		
		TOLERANCES UNLESS OTH			OTHE	HERWISE SPECIFIED		Weight:									
	Norm Si	-	_	6	30	100	300	1000	Angles	Th.	Th. ISSUE 2 : 25.6.199						
	Fit Fine	10	_	30	100 0.15	300	1000	2000		4300 EII.							
		<u> </u>	0,05	0,1		0,2		0,5	0,1*		MPS	A	\mathcal{L}	σ	\neg		
	R	REMOVE ALL BURRS AND SHARP EDGES				1 4 . 0	411	0									
cation	UPR 21.04.1994 Control:									1:2	Replacement for: Replaced by: ND ND						
밁				1001							_						
Ξ	Valves											300	35				
Modit	HERMetic Compact Valve C2-SS-BL								ND 30596								
۷ısa	2° Female REF ND																
Date	primition to soprite or made area.										Enraf Tanksystem SA						
S	The receiver is responsible for every misuse.										Tel. +4	1 26 9	91 91 500 -	Fax +41 26 9	1 91 505		



Author: QD

Declaration of Conformity

Issue: 3

TSB_7021_E.doc

September 3, 2008

1 of 1

Apparatus Identification

HERMetic Sampler Type GT / GT Chem / GTX Chem / GTN Chem / A4 / GT4

Apparatus Classification

Sampling Equipment

Statement of Conformity

Based on sample product test results using appropriate standards (industrial environment), and in accordance with the following EC Directives, we, Enraf Tanksystem SA, hereby declare under our sole responsibility that the above HERMetic Samplers are in conformity with:

> EC ATEX Directive 94/9/EC, Equipment and protective systems intended for use in potentially explosive atmospheres (ATEX). EC Type Examination Certificate: KEMA 06ATEX0027 II 1 G c IIB T6

Sample Product Testing for ATEX

Tested by

Kema Quality B.V., Utrechtseweg 310, P.O. Box 5185, 6812 AR Arnhem, The Netherlands

Standards Used

EN13463-1:2001, Non-electrical equipment for potentially explosive atmopheres -

Part 1: Basic method and requirements

EN13463-5:2003, Non-electrical equipment for potentially explosive atmopheres -

Part 5: Protection by constructional safety

Notified Body

Notified Body Number

Report ID

Kema Quality B.V., Utrechtseweg 310, P.O. Box 5185, 6812 AR Arnhem, The Netherlands 0344

KEMA 2090419

Quality Assurance notification

Notified Body

Baseefa ATEX 1536

Notified Body Number

Baseefa, Rockhead Business Park, Staden Lane, Buxton, Derbyshire, SK17 9RZ. United Kingdom

Manufacturer

ENRAF TANKSYSTEM SA, Rue de l'Industrie 2, 1630 BULLE, Switzerland

Philippe Despagne General Manager

C	reated / modified	Approved	Released	Remarks				
1	2006/06/01	2006/06/08	2006/06/12	Creation				
2	2007/04/02	2007/04/02	2007/04/02	Update of the ATEX references				
3	3 2008/08/28 2008/09/03 2008/09/03 Update of the company logo - Honeywell							
	The prints of this document are not controlled under the quality management system, unless printed on "ORIGINAL" paper							