



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: 62-762.901(9)

Form Title: Storage Tank Equipment

Registration Form

Effective Date: July 2019

Incorporated in Rule 62-762.851, F.A.C.

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: WESTERN GLOBAL INC. Contact Name: AHMED KHAN
Company Address: 10233 RODNEY STREET, City, State: PINEVILLE, N.C., Zip: 28134
E-mail: ahmed.khan@western-global.com Contact Number: +1 (866) 814-2470, +1 (204) 289-3530
Product Name: SELF-CLIMAT OVERFILL PROTECTION DEVICE, ANSI/CAN/UL/ULC 2583:2021 LISTED (UL File MH62282)
Model Number(s): Model "N", "NT" and "INOX" 2", 3" and 4" BSP Size: Product Type: AST / OVERFILL PROTECTION DEVICES-VALVES
Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: 62-762 (AST)

Write a brief description of equipment registration request including product limitations:

TANK ACCESSORIES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS. Overfill Prevention Devices, Models N (2", 3", and 4"), Models NT (2" and 3") and Models INOX (3"). Overfill Prevention Devices, pressure fill, Class 1, Models N (2", 3", and 4"), Models NT (2" and 3") and Models INOX (3"), max pressure of 50 psi. The UL2583, CAN/ULC-S661 listed OPDs have now been re-certified to the new safety standard ANSI/CAN/UL/ULC 2583:2021 Outline of Investigation for Fuel Tank Accessories

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	☒	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☒	☐	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☒	☐	☐
4. Technical information and drawings included?	☒	☐	☐
5. Installation instructions included?	☒	☐	☐
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	☒	☐	☐
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?	☒	☐	☐
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☒	☐	☐
9. Has the product been approved or registered in other countries or states? (If so provide list)	☒	☐	☐
10. Any requirements for company-certified installers or trainers?	☐	☐	☒
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- <u>983</u>	☒	☐	☐
12. Any changes or modifications to the equipment since the last submittal to DEP?	☐	☒	☐

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

The Self-Climat OPD/OPV is a UL Listed device. IOM of the said OPV/OPD should be read carefully by all persons who are or will be responsible for the installation or operation of the product. For safety reasons, this device shall only be assembled and installed by qualified persons authorized to work on equipment for use in explosive atmospheres. Must be installed by the state certified petroleum technician / pollutant storage contractor in consultation with the local / county / state AHJ and in compliance to the NFPA30 and F.A.C requirements. Periodic operability and integrity testing must be carried out per state regulations.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

AHMED KHAN - REGULATORY & ENGINEERING COMPLIANCE

Printed Name and Title

Ahmed Khan

Signature (right click to sign)

01/13/2026

Date

For Department Use Only:

Date Application Received: 1/13/2026

Application complete:

Yes: ☒ No: ☐

EQ- 983 Date of complete or incomplete letter sent: 1/20/2026

Date Equipment Requires Renewal: 1/20/2031

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.



Department of Environmental Protection

2600 Blair Stone Road ♦ Tallahassee, Florida 32399-2400

DEP Form: <u>62-762.901(9)</u>
Form Title: <u>Storage Tank Equipment</u>
Registration Form
Effective Date: <u>July 2019</u>
Incorporated in Rule <u>62-762.851, F.A.C.</u>

Storage Tank System Equipment Registration Form

Fill out completely

General Information

Company Name: WESTERN GLOBAL Contact Name: AHMED KHAN
 Company Address: 1707 NORTHWOOD DR. City, State: TROY, MICHIGAN Zip: 48084
 E-mail: ahmed.khan@western-global.com Contact Number: +1(866) 814-2470, +1(204)289-3530
 Product Name: SELF-CLIMAT OVERFILL PROTECTION DEVICE, UL2583 & CAN/ULC-S661-2010-R2016 LISTED (UL File MH62282)
 Model Number(s): Model"N","NT"and"INOX" 2",3"and 4"BSP Sizes Product Type: AST / OVERFILL PROTECTION DEVICE
 Rule(s) citation that registration is being requested within Chapter 62-761 (UST), and/or 62-762 (AST), F.A.C.: 62-762-500 (AST)

Write a brief description of equipment registration request including product limitations:

TANK ACCESSORIES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS. USL-Overfill Prevention Devices, Models N (2", 3", and 4"), Models NT (2" and 3") and Models INOX (3"). CNL - Overfill Prevention Devices, pressure fill, Class 1, Models N (2", 3", and 4"), Models NT (2" and 3") and Models INOX (3"), max pressure of 86 psi. UL2583, Outline of Investigation for Fuel Tank Accessories CAN/ULC-S661-2010-R2016, Standard for Overfill Protection Device for Flammable and Combustible Liquid

Information Checklist (Choose Yes, No, or N/A - Not Applicable):

	Yes	No	N/A
1. Third-party Certification by a Nationally Recognized Testing Laboratory? (Required)	☒	☐	☐
2. Documentation of third-party evaluation that the equipment meets DEP Rules?	☐	☒	☐
3. Documents included about the qualifications of the Nationally Recognized Testing Laboratory?	☒	☐	☐
4. Technical information and drawings included?	☒	☐	☐
5. Installation instructions included?	☒	☐	☐
6. Annual Operability Testing Requirements (Rules 62-761.500, 62-762.501, & 62-762.502 F.A.C.)?	☒	☐	☐
7. Integrity Testing Requirements (Rules 62-761.700, 62-762.701, & 62-762.702, F.A.C.)?	☒	☐	☐
8. Compatible with fuel blends containing >10% ethanol or >20% biodiesel?	☒	☐	☐
9. Has the product been approved or registered in other countries or states? (If so provide list)	☒	☐	☐
10. Any requirements for company-certified installers or trainers?	☒	☐	☐
11. Was this product(s) previously approved or registered by the Department? If yes, EQ- _____	☐	☒	☐
12. Any changes or modifications to the equipment since the last submittal to DEP?	☐	☐	☒

Document Information: Provide supporting documents indicated as "Yes" above including this form via email to Tanknotify@floridadep.gov, or documents can be sent to FDEP, Division of Waste Management, 2600 Blair Stone Road, MS 4560, Tallahassee, FL 32399.

Write a brief description of equipment installation and performance in the U.S.:

The Self-Climat OPD/OPV is a UL Listed device. IOM of the said OPV/OPD should be read carefully by all persons who are or will be responsible for the installation or operation of the product. For safety reasons, this device shall only be assembled and installed by qualified persons authorized to work on equipment for use in explosive atmospheres. Must be installed by the state certified petroleum technician / pollutant storage contractor in consultation with the local / county / state AHJ and in compliance to the NFPA30 and F.A.C requirements. Periodic operability and integrity testing must be carried out per state regulations.

Equipment Registration Certification:

To the best of my knowledge and belief, all information submitted on this form is true, accurate and complete.

AHMED KHAN - REGULATORY & ENGINEERING COMPLIANCE

Printed Name and Title

Signature (right click to sign)

09/28/2022

Date

For Department Use Only:

Date Application Received: 09/28/2022 Application complete: Yes: ☒ No: ☐

EQ- 983 Date of complete or incomplete letter sent: 10/12/2022 Date Equipment Requires Renewal: 10/12/2027

Storage tank system equipment requires renewal every 5 years in accordance with subsection 62-762.851(2), F.A.C.

CERTIFICATE OF COMPLIANCE

Certificate Number 20170621-MH62282
Report Reference MH62282-20170620
Issue Date 2017-JUNE-21

Issued to: Western Global Holdings
Western House
Broad Lane, Yate
Bristol
BS37 7LB UNITED KINGDOM

**This is to certify that
representative samples of**

TANK ACCESSORIES FOR FLAMMABLE AND
COMBUSTIBLE LIQUIDS

USL - Overfill Prevention Devices, Models N (2", 3", and 4"),
Models NT (2" and 3") and Models INOX (3").

CNL - Overfill Prevention Devices, pressure fill, Class 1,
Models N (2", 3", and 4"), Models NT (2" and 3") and
Models INOX (3"), maximum pressure of 86 psi.

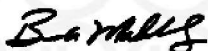
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL2583, Outline of Investigation for Fuel Tank Accessories
CAN/ULC-S661-2010-R2016, Standard for Overfill
Protection Devices for Flammable and Combustible Liquid
Storage Tanks

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





Technical datasheet No.: SECENV-LDR INOX -19-02-2014
Product code: 308 268

Date: 19/02/2014
Version: V2

Page: 1/1

Designation

A completely safe mechanical safety device preventing any risk of overflow when filling a static tank.

Application

Designed for liquids containing water (e.g.: AdBlue) or highly corrosive liquids with which only stainless steel is compatible.

Operation

- ✓ A single automatic closing level, N1
- ✓ At level N1 and once the filling process has stopped, drainage of residual liquid remaining upstream of the device is permitted
- ✓ A dip tube must be fitted under the LDR to prevent turbulence or foam forming (risk of accidental closure)

+ Product

- ✓ Delivered ready-to-install: fits on the filler tube inside the tank
- ✓ Provides 100% complete and automatic closure
- ✓ Product entirely made of metal (no gasket)
- ✓ Requires no maintenance or adjustment
- ✓ Operates for gravity discharge or pumping
- ✓ Individually bench tested before obtaining a serial number

Characteristics & standards

- ✓ Suitable for use in group IIB potentially explosive atmospheres
- ✓ ATEX certified CE0080 Ⓢ marking II1 G c IIB T6
- ✓ In compliance with Directive 94/9/EC
- ✓ In compliance with harmonised standards:
 - NF EN 13463-5: 2003
 - NF EN 13616: 2004 - category A2 - steam-tightness: no
- ✓ Conforms to standard NF EN 13463-1: 2001 (Equipment conformity is not affected by the substantial modifications to NF EN 13463-1: 2009)
- ✓ Conforms to Dutch standard KIWA BRL – K 636
- ✓ Conforms to Belgian standard Vlare II

Composition

Supplied with fitting instructions and aluminium identification plate

Compatibility

Before installing check the compatibility between the LDR and the nature of the liquid stored in the tank, characteristics determining the type of device to be installed. Compatibility recommendations given by Self Climat are for information only and can in no circumstances be used contractually.

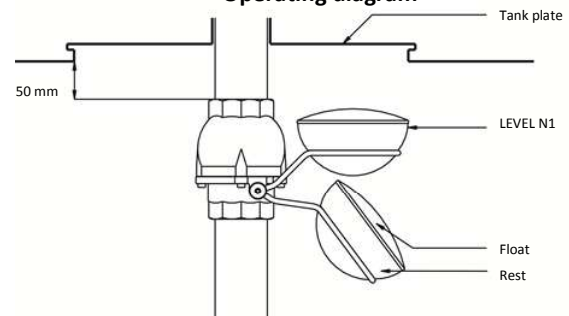
Warranty

12 months provided fitting and operating instructions are observed.

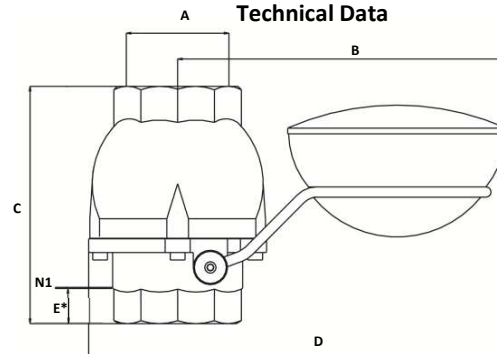


NF EN 13616

Operating diagram



Technical Data



Reference	308 268
Dimension	Type DN 80 INOX
A (mm)	Dia. 80/90 mm
B (mm)	322
C (mm)	207
D (mm)	400
E* (mm)	30
Construction	Type DN 80 INOX
Body	316 grade stainless steel
Float	316 L grade stainless steel
Fastenings and other parts	Stainless steel
Operating	Type DN 80 INOX
Connection	3" F/F GAS*
Max. pressure	8 bars
Min. flow	3.6 m³/h
Max. flow	60 m³/h
Max. viscosity rating	55 cSt
Temperature	-25°C to +60°C
Type of discharge	Pump or gravity
Weight	9.80 kg

Technical datasheet No.: SECENV-LDR-19-02-2014

Product code: 308 278 / 308 276 / 308 274

Date: 19/02/2014

Page: 1/1

Version: V2

Designation

A completely safe mechanical safety device preventing any risk of overflow when filling a static tank

Application

Designed for the following liquid petroleum fuels: Heating oil, diesel fuel, gasoline, lead-free and leaded gasoline.

Operating

- ✓ Complete and automatic closure at level N1 with the possibility of draining the filler hose and pipe (min. draining volume : 150L)
- ✓ Complete and automatic closure at level Nmax without possibility of reopening
- ✓ A dip tube must be fitted under the LDR to prevent turbulence or foam forming (risk of accidental closure)

+ Product

- ✓ Delivered ready-to-install : fits on the filler tube inside the tank
- ✓ Provides 100% complete and automatic closure
- ✓ Product entirely made of metal (no gasket)
- ✓ Requires no maintenance or adjustment
- ✓ Operates for gravity discharge or pumping
- ✓ Individually bench tested before obtaining a serial number
- ✓ An LDR tester for checking operation is available as an option

Characteristics & standards

- ✓ Suitable for use in group IIB potentially explosive atmospheres
- ✓ ATEX certified CE0080 Ⓜ marking II1 G c IIB T6
- ✓ In compliance with Directive 94/9/EC
- ✓ In compliance with harmonised standards:
 - NF EN 13463-5: 2003
 - NF EN 13616: 2004 - Category A2 - Steam-tightness: no
- ✓ Conforms to standard NF EN 13463-1: 2001 (Equipment conformity is not affected by the substantial modifications to NF EN 13463-1: 2009)
- ✓ Conforms to Dutch standard KIWA BRL – K 636
- ✓ Conforms to Belgian standard Vlare II

Composition

Supplied with fitting instructions and aluminium identification plate

Compatibility

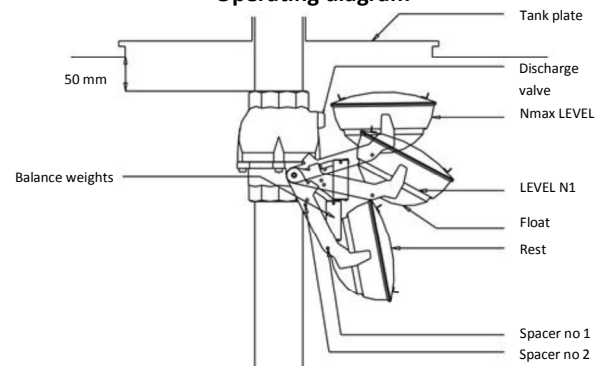
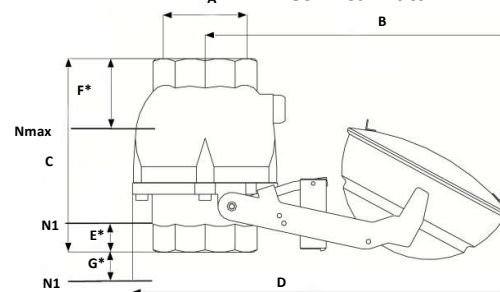
Before installing check the compatibility between the LDR and the nature of the liquid stored in the tank, characteristics determining the type of device to be installed. Compatibility opinions given by Self Climat are for information only and can in no circumstances be used contractually.

Warranty

12 months provided fitting and operating instructions are observed.



NF EN 13616

**Operating diagram****Technical Data**

Product code	308 278	308 276	308 274
Dimension	Type DN50	Type DN80	Type DN100
A (mm)	Ø 50/60	Ø 80/90	Ø 102/114
B (mm)	300	330	330
C (mm)	159	207	193
D (mm)	350	406	406
E* (mm)		30	50
F* (mm)	80	65	85
G* (mm)	35		
Construction	Type DN50	Type DN80	Type DN100
Body	Aluminium	Aluminium	Aluminium
Float	DC 04 grade steel	DC 04 grade steel	DC 04 grade steel
Balance weight valve	Brass	Brass	Brass
Balance weight pin	AS 300 grade steel	AS 300 grade steel	AS 300 grade steel
Fastenings and other parts	Stainless steel	Stainless steel	Stainless steel
Operating	Type DN50	Type DN80	Type DN100
Connection	2" F/F GAS*	3" F/F GAS*	4" F/F GAS*
Max. pressure	6 bar	8 bar	8 bar
Min. flow	1.4 m³/h	3.6 m³/h	3.6 m³/h
Max. flow	40 m³/h	60 m³/h	60 m³/h
Max. viscosity rating	55 cSt	55 cSt	55 cSt
Temperature	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Type of discharge	Pump or gravity	Pump or gravity	Pump or gravity
Weight	3.50 kg	6.00 kg	6.20 kg

Designation

A completely safe mechanical safety device preventing any risk of overflow when filling a static tank

Application

Designed for aviation fuels, other petroleum products, miscellaneous oil and alcohol.

Operating

- ✓ A single automatic closing level, N1
- ✓ At level N1 and once the filling process has stopped, drainage of residual liquid remaining upstream of the device is permitted
- ✓ A dip tube must be fitted under the LDR to prevent turbulence or foam forming (risk of accidental closure)

+ Product

- ✓ Delivered ready-to-install : fits on the filler tube inside the tank
- ✓ Provides 100% complete and automatic closure
- ✓ Product entirely made of metal (no gasket)
- ✓ Requires no maintenance or adjustment
- ✓ Usable for gravity discharge or pumping.
- ✓ Individually bench tested before obtaining a serial number

Characteristics & standards

- ✓ Suitable for use in group IIB potentially explosive atmospheres
- ✓ ATEX certified CE0080 marking II1 G c IIB T6
- ✓ In compliance with Directive 94/9/EC
- ✓ In compliance with harmonised standards:
 - NF EN 13463-5: 2003
 - NF EN 13616: 2004 - Category A2 - Steam-tightness: no
- ✓ Conforms to standard NF EN 13463-1: 2001 (Equipment conformity is not affected by the substantial modifications to NF EN 13463-1: 2009)
- ✓ Conforms to Dutch standard KIWA BRL – K 636
- ✓ Conforms to Belgian standard Vlare II

Composition

Supplied with fitting instructions and aluminium identification plate

Compatibility

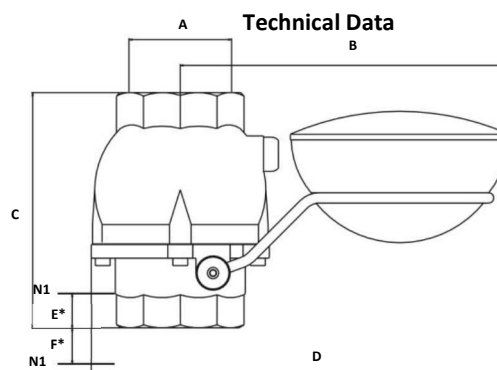
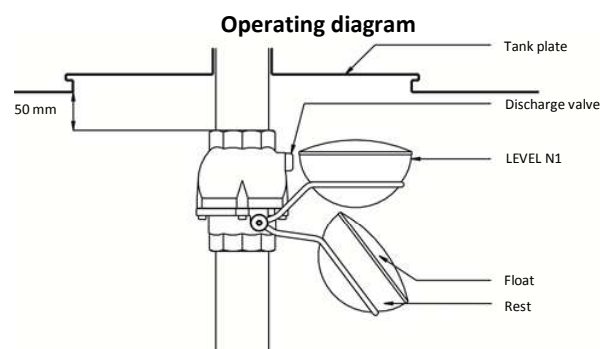
Before installing check the compatibility between the LDR and the nature of the liquid stored in the tank, characteristics determining the type of device to be installed. Compatibility opinions given by Self Climat are for information only and can in no circumstances be used contractually.

Warranty

12 months provided fitting and operating instructions are observed.



NF EN 13616



Reference	308 279	308 277
Dimension	Type DN 50 NT	Type DN 80 NT
A (mm)	Ø 50/60	Ø 80/90
B (mm)	245	322
C (mm)	159	207
D (mm)	295	400
E* (mm)		30
F* (mm)	35	
Construction	Type DN 50 NT	Type DN 80 NT
Body	Anodised aluminium	Anodised aluminium
Float	316 L grade stainless steel	316 L grade stainless steel
Fastenings and other parts	Stainless steel	Stainless steel
Operating	Type DN 50 NT	Type DN 80 NT
Connection	2" F/F GAS*	3" F/F GAS*
Max. pressure	6 bar	8 bar
Min. flow	1.4 m³/h	3.6 m³/h
Max. flow	40 m³/h	60 m³/h
Max. viscosity rating	55 cSt	55 cSt
Temperature	-25°C to +60°C	-25°C to +60°C
Type of discharge	Pump or gravity	Pump or gravity
Weight	2.50 kg	5.00 kg

Technical datasheet No.: SECENV-LDR NT-19-02-2014

Product code: 308 279 / 308 277

Date: 19/02/2014

Page: 2/2

Version: V2

Non-exhaustive list of chemical products suitable for use with LDR 200 NT and 323 NT devices.

- | | | |
|-----------------------------|-----------------------------|-----------------------------|
| 1 - isopropyl acetate | 34 - gasoline C | 67 - naphta |
| 2 - ethyl acetate | 35 - gasoline E | 68 - pentane |
| 3 - butyl acetate | 36 - gasoline F | 69 - perchlorethylene |
| 4 - ethyl glycol acetate | 37 - 92/98 RON gasoline | 70 - lamp oil |
| 5 - acetone | 38 - turpentine oil | 71 - deodorised naphtha |
| 6 - rosolic acid | 39 - miscellaneous gasoline | 72 - propanol |
| 7 - hexavanadic acid | 40 - nitrobenzene | 73 - solvesso 150 (white) |
| 8 - acetic acid | 41 - ethyl glycol | 74 - shellsol A |
| 9 - methylated spirit | 42 - exxsol 140/170 | 75 - shellsol E |
| 10 - methylated alcohol 95° | 43 - glycol | 76 - shellsol K |
| 11 - alcohol 90° | 44 - glycerol | 77 - shellsol R |
| 12 - methanol | 45 - hexane | 78 - shellsol T |
| 13 - ethyl alcohol | 46 - hexylene glycol | 79 - regenerated solvents |
| 14 - isopropyl alcohol | 47 - dust laying oil | 80 - used solvents |
| 15 - isobutyl alcohol | 48 - light AD oil | 81 - naphtha solvent 90/170 |
| 16 - normal butyl alcohol | 49 - A1 oil | 82 - naphtha solvent 90/160 |
| 17 - anthracene | 50 - ROB 108 linseed oil | 83 - total heavy solvent S3 |
| 18 - antifreeze | 51 - coal tar oil | 84 - total heavy solvent S6 |
| 19 - benzene | 52 - mineral oil | 85 - carbon disulphide |
| 20 - benzol | 53 - vegetable oil | 86 - toluene |
| 21 - black varnish | 54 - oil ref. P 223 | 87 - telura ref. 168 |
| 22 - butanol | 55 - IPA 91 | 88 - trichloroethylene |
| 23 - buthyglycol | 56 - IPA 99 | 89 - carbon tetrachloride |
| 24 - dark carbonyl | 57 - isopropanol | 90 - varsol |
| 25 - light carbonyl | 58 - A1 jet | 91 - white spirit B.T.A. |
| 26 - benzol chloride | 59 - methyl ethyl ketone | 92 - ordinary white spirit |
| 27 - coal tar | 60 - methyl isobutyl ketone | 93 - xylene |
| 28 - diethylene glycol | 61 - methyl glycol | |
| 29 - dioctyl phthalate | 62 - methanol | |
| 30 - dilutene M5 | 63 - monopropylene glycol | |
| 31 - solvent ref. 7031 | 64 - monoethylene glycol | |
| 32 - dutrex ref. 238 FC | 65 - M.E.K. | |
| 33 - gasoline A | 66 - M.I.B.K. | |

**Overfill prevention devices
for hydrocarbons**

- 2" Model N
- 3" Model N
- 4" Model N

FITTING AND OPERATING INSTRUCTIONS

**FUEL TANK ACCESSORIES FOR FLAMMABLE
AND COMBUSTIBLE LIQUIDS**

**IMPORTANT INFORMATION -
FOLLOW ALL INSTRUCTIONS**



Head office :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S with capital of €315 000
SIREN registration no. 698 202 868 00023
NAF Code 4674B
VAT No. FR 25 698 202 868

Tel : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

WARNING !

THIS MANUAL SHOULD BE READ CAREFULLY BY ALL PERSONS WHO ARE OR WILL BE RESPONSIBLE FOR THE INSTALLATION OR OPERATION OF THE PRODUCT.

CAUTION !

FOR SAFETY REASONS, THIS DEVICE SHALL ONLY BE ASSEMBLED AND INSTALLED BY QUALIFIED PERSONS AUTHORISED TO WORK ON EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES. THE USE OF NON-QUALIFIED PERSONNEL, OR ANY DEVIATIONS FROM THESE RECOMMENDED PROCEDURES, COULD RESULT IN DAMAGE OR MALFUNCTION.

PLEASE READ AND DIGEST THIS MANUAL BEFORE USING THE APPLIANCE.

CONTENTS

I	Marking	3
II	General specifications	3
III	Operating instructions	5
	3.1 Safety instructions	5
	3.2 Starting up	5
	3.3 Operation	5
IV	Fitting	7
	4.1 Installation of the overfill prevention device	7
	4.2 Maintenance and trouble shooting	8
	4.3 Dismantling	8
V	Special conditions	8
VI	Optional accessories	8
VII	Technical data	10
VIII	Standards and approvals	11

SUPPLIES

On receipt of the delivery, check that the packaging is original and that the equipment is in good condition.
The supply should comprise :

- The Self Climat overfill prevention device
- The manufacturer's plate and two nails in a sachet
- The instruction manual

I) MARKING

The **Self Climat** overfill prevention devices Model N (2", 3", and 4") are constructed according to the following standards :

- **ANSI/CAN/UL/ULC 2583:2021, Fuel Tank Accessories for Flammable and Combustible Liquids.**

OPD 2" MODEL N	OPD 3" MODEL N	OPD 4" MODEL N
Automatic overfill shutoff 2" Model N For Automotive Similar Fuels Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids ANSI/CAN/UL/ULC 2583:2021	Automatic overfill shutoff 3" Model N For Automotive Similar Fuels Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids ANSI/CAN/UL/ULC 2583:2021	Automatic overfill shutoff 4" Model N For Automotive Similar Fuels Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids ANSI/CAN/UL/ULC 2583:2021
 US LISTED MH62282 Rated Flow: 187 gal/min (708 L/min) Max pressure: 50 psi (345 kPa)	 US LISTED MH62282 Rated Flow: 360 gal/min (1363 L/min) Max pressure: 50 psi (345 kPa)	 US LISTED MH62282 Rated Flow: 360 gal/min (1363 L/min) Max pressure: 50 psi (345 kPa)

II) GENERAL SPECIFICATIONS

The **Self Climat** overfill prevention device is a mechanical safety device placed on the filling tube inside the liquid storage tank.

The purpose of this «completely safe overflow prevention device» is to reduce environmental risks, water pollution risks and all fire or explosion risks that could arise while filling liquid petroleum fuel storage tanks.

It is essential to verify the compatibility between the overfill prevention device and the liquid stored in the tank, as the characteristics of the liquid determine the model or type of overfill prevention device to be installed.

The **Self Climat** technical dept has all the information necessary to advise installing technicians in their choices.

OVERFILL PREVENTION DEVICE						
Description	Rated Flow	DN	Max pressure	Intended use	Working temperature*	Max fluid temperature
OPD 2" Model N	187 gal/min (708 L/min)	50	50 psi (345 kPa)	Heating oil, diesel fuel, gasoline, lead- free gasoline, leaded gasoline	-30°C (-22°F)/+50°C(122°F)	+80°C
OPD 3" Model N	360 gal/min (1363 L/min)	80	50 psi (345 kPa)		-30°C (-22°F)/+50°C(122°F)	+80°C
OPD 4" Model N	360 gal/min (1363 L/min)	100	50 psi (345 kPa)		-30°C (-22°F)/+50°C(122°F)	+80°C

* The temperature of the equipment depends on the temperature of the fluid

These products are intended for use with storage tanks or fueling systems containing automotive fuels and similar fuels or liquids under the expected use conditions and exposures that have similar chemical, physical and material compatibility properties as represented in these requirements. The applicable fuels are intended to be formulated as:

- a) Petroleum products, including petroleum hydrocarbon fuels with low-biofuels blends, and similar flammable or combustible liquid petroleum derivatives, such as fuel components (cetane, hexane, heptane), and oils (lubricating, hydraulic, machine);
- b) Oxygenated fuel blends, including all “petroleum product” liquids plus petroleum hydrocarbon fuels with low-biofuels blends;
- c) Oxygenates, including all “petroleum product” and “oxygenated fuel blends” liquids plus pure/denatured or highest oxygenated blend stocks for use in mixing of dispensed lower fuel blends and components, such as biodiesel and ethanol; and
- d) Other flammable and combustible liquids (for which the test fuels in Annex A are not considered to be sufficient or applicable) that can be demonstrated or determined to be compatible with the accessory materials as determined by the certifier.

Products covered by this Standard are intended to be installed and used in accordance with the applicable documents in the following list:

a) In the United States:

- 1) NFPA 30, Flammable and Combustible Liquids Code;
- 2) NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages;
- 3) NFPA 1, Fire Code;
- 4) International Fire Code published by the International Fire Council; or
- 5) Other Applicable Federal and State regulations for the specific product or application it is being utilized in, such as DOT for portable/mobile tanks.

b) In Canada:

- 1) National Fire Code of Canada;
- 2) CAN/CSA-B139, Installation code for oil-burning equipment;
- 3) CCME PN1326, Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products; and
- 4) Regulation of the authority having jurisdiction.

III) OPERATING INSTRUCTIONS

3.1 / Safety instructions

Any modification to the appliance may invalidate its certification. Consult the certificates and the documents relative to the fittings to the appliance in order to check on the temperature class and explosion group. The person doing the work should be authorized for ATEX work to prevent the deterioration of the mode of protection of the equipment certified.

3.2 / Starting up

Installation and connection can only be done by qualified personnel.

The corresponding UL and ULC standards and national regulations covering the safety of appliances, as well as general rules accepted in technical field, must be followed.

3.3 / Operation

Introduction

The Self Climat overfill prevention device allows the tank it is fitted to, to be filled to a predetermined level L1; at this level it provides automatic and complete closing.

At this stage, it allows reopening for draining the hose and the filler pipe if necessary without risk of overflowing (minimum drain volume : 150 litres).

Finally, it provides automatic and complete closing, without any possibility of reopening, at a predetermined level Lmax.

The Self Climat overfill prevention device can equip gravity filled or pumped installations for Category 2 hydrocarbons.

Detailed operation

OPERATING PRINCIPLE OF THE SELF CLIMAT COUNTERWEIGHT OVERFILL PREVENTION DEVICE

- The float is in the bottom position.
- The piston is in the top position (fully open).
- The drain ports are completely open.

1) THE CLOSING PROCESS BEFORE THE L1 LEVEL

- The float starts to rise progressively under the effect of the hydraulic pressure.
- The 2 counterweights are moved by spacer N°1 of the float carrier.
- The piston partially closes the drain ports.
- The float continues to rise.
- Half way along the stroke the 2 weights separate from spacer N°1 and are moved by spacer N°2 of the float carrier.
- The weights finish rising under the effect of the hydraulic pressure and move the float with them.
- The drain ports are closed.
- The piston is in the fully closed position under the effect of hydraulic pressure.

2) AT THIS POINT THE LEVEL IS REACHED : THE OVERFILL PREVENTION DEVICE IS FULLY CLOSED.

3) THE FLOAT IS KEPT SUBMERGED AT THE L1 LEVEL

4) CLOSE THE LORRY VALVE AND PROCEED TO THE USUAL AIR INLET

5) DRAINING THE HOSE

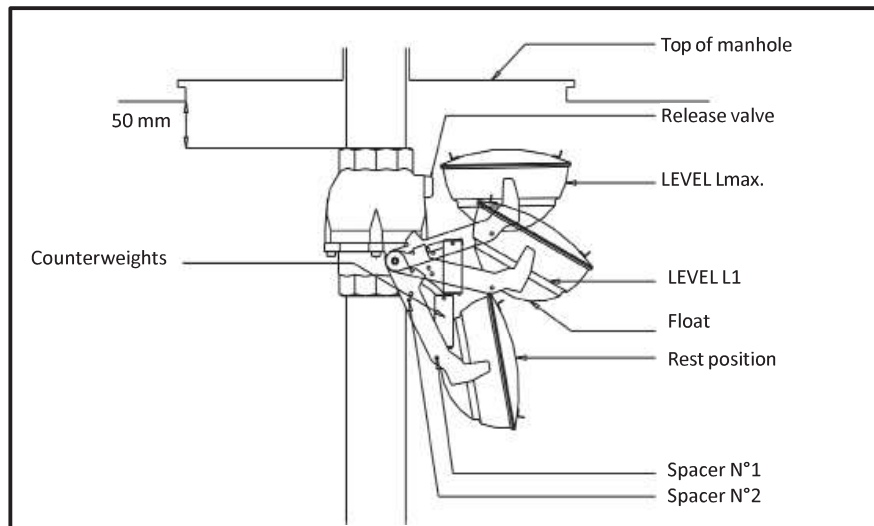
After closing the lorry valve and proceeding to the additional air inlet, the progressive elimination of the residual pressure on the piston is achieved via :

- the escape holes in the piston chamber casing.
- the opening of release valve.

To this progressive decompression, is added the weight of the two counterweights applied to spacer N°2 of the float carrier which accelerates the partial reopening of the piston and thus allows the hose to drain completely.

6) CLOSURE AT LEVEL Lmax

Accidental pouring - excessive hose emptying - failure to observe the flow volumes laid down by the standard in force. In this case the submerged float continues its stroke, moving the two weights with spacer N°2 of the float carrier. The piston once again provides complete closure.



IV) FITTING

4.1 / Installation of the overfill prevention device

IMPORTANT : Protect the Overfill Prevention Device against impurities such as sand during fitting. Care must be taken to prevent any damage, blockage and dysfunction to the OPD!

When installing in the presence of ATEX, the user must never create a situation of sudden closing of the limiter resulting in impact speeds higher than those expected in operation within the limits of maximum flow rates and pressures provided.

1 : We recommend positioning the overfill prevention device on the longitudinal axis of the tank. Apply a suitable thread sealant on the pipe thread during installation of the OPD. The thread sealant must be resistant to the liquid stored inside the tank. Make sure there is no leakage or sealant residue inside the OPD in order to avoid any damage, dysfunction or blockage during its operation !

2 : Mount the overfill prevention device on the pipe sleeve under the manhole plate, placing the float under the tester. The 50 mm minimum distance between the top of the overfill prevention device and the tank generator must be respected in all circumstances (Figure 2).

3 : Connect the pipe (position 2/Figure 1) to the ball valve :

- measure distance X between the manhole ring (position 1/Figure 1) and the tank bottom.
- shorten the pipe to leave a space of 70 mm between the bottom of the pipe and the tank bottom.
- stand the assembly upright, lift the float and release it to make sure it works freely.

4 : In order to respect the grounding of the Overfill Prevention Device during its assembly in the tank, it is necessary to ensure the equipotentiality between the socket of the manhole pipe (Rep.A- Figure 2) and the OPD float (Rep.B-Figure 2). An electrical continuity test must be carried out by the person responsible for implementing the installation.

5 : Replace the manhole plate after fitting the filler pipe and check that the float cannot rub against the internal pipes.

6 : Check the diameter of the tank vent. Its cross-section should be at least equal to a quarter of the cross-section of the filler pipe.

7 : Fit the manufacturer's plate in the filler pipe.

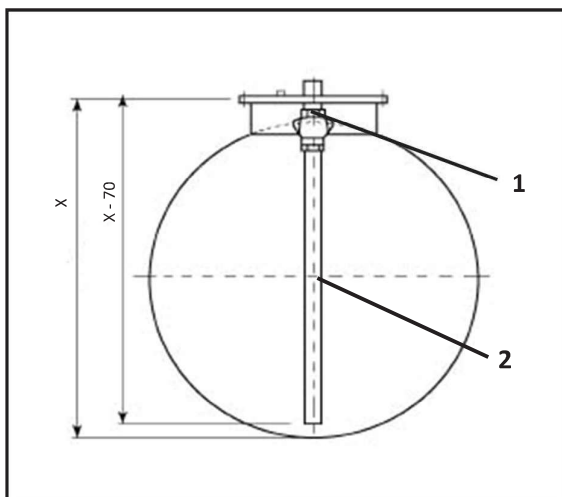


Figure 1

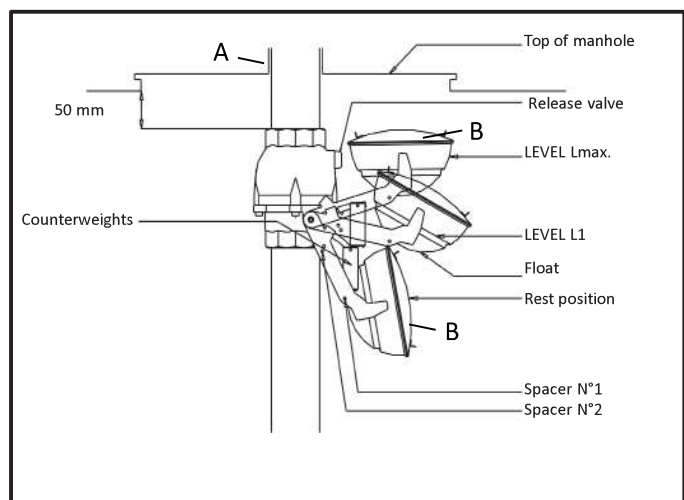


Figure 2

Caution: Do not pressurize the tank outside the range [- 30 kPa to +100 kPa] in order to avoid any possible damage to the OPD.

4.2 / Maintenance and trouble shooting

The user must, during maintenance in the presence of ATEX, never create a situation of sudden closing of the OPD resulting in impact speeds higher than those expected in operation within the limits of maximum flow rates and pressures provided.

The operations that can be carried out by the user are limited to installation and connections. Any dismantling, repair or modification of the Overfill Prevention Device systematically voids the manufacturer's warranty.

Consequently, any intervention can only be carried out by the company "Self Climat" after return of the original device to the factory.

In the event of failure of the Overfill Prevention Device, it must be returned to:

Self Climat
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

Any maintenance intervention must be carried out as well as an electrical continuity test in compliance with the EN standards in force for the maintenance of operating means in areas at risk of explosion and national provisions must be respected. In order to respect the grounding of the Overfill Prevention Device, it is necessary to ensure equipotentiality between the socket of the manhole pipe (Rep.A- Figure 2) and the float of the OPD (Rep.B-Figure 2). Any intervention must be carried out by qualified people in charge of the installation.

4.3 / Dismantling

The overfill prevention device can only be dismantled in the event of malfunctioning or replacement. It can only be dismantled by personnel authorized to work on equipment for use in explosive atmospheres.

V) SPECIAL CONDITIONS

Self Climat automatic overfill prevention devices are guaranteed for one year from the invoice date against manufacturing faults accepted by our factory.

Our overfill prevention devices cannot be modified in any way without causing a loss warranty.

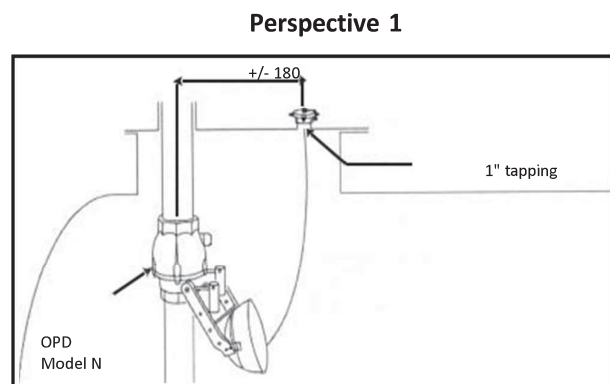
As we do not install the equipment ourselves no claim whatsoever for indemnity will be accepted whether for direct or indirect causes.

VI) OPTIONAL ACCESSORIES

1) OPD cable tester: 308 267

Composition

- Stainless steel cable Ø 1 mm, 2 m length.
At one end a traction ring and at the other a cable clamp.
- Zamak union female thread Rp1 x G1 ¼ M,
fitted with a zamak cover and a brass chain.

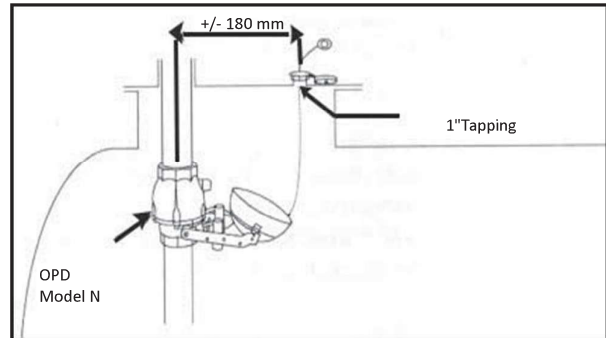


Tester in the rest position - fitted on the float

Test method

A means of manually testing the correct operation of the float valve.
Pull the cable progressively, using the ring, to bring the float to its top position.
Lower the float slowly to its rest position.
Repeat this operation several times to make sure that nothing prevents the float moving freely throughout its travel.

Perspective 2



Tester in the test position - fitted on a float

It is essential to ensure that the tester orifice is always on the manhole plate and not on the tank.

Procedure

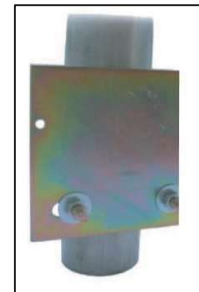
When the tester is installed, it is essential to check its operation according to the procedure described in Test Method before filling the tank for the first time. This enables the correct installation of the overfill prevention device to be confirmed.

Once the tester is installed, this check must be performed at least once a year.

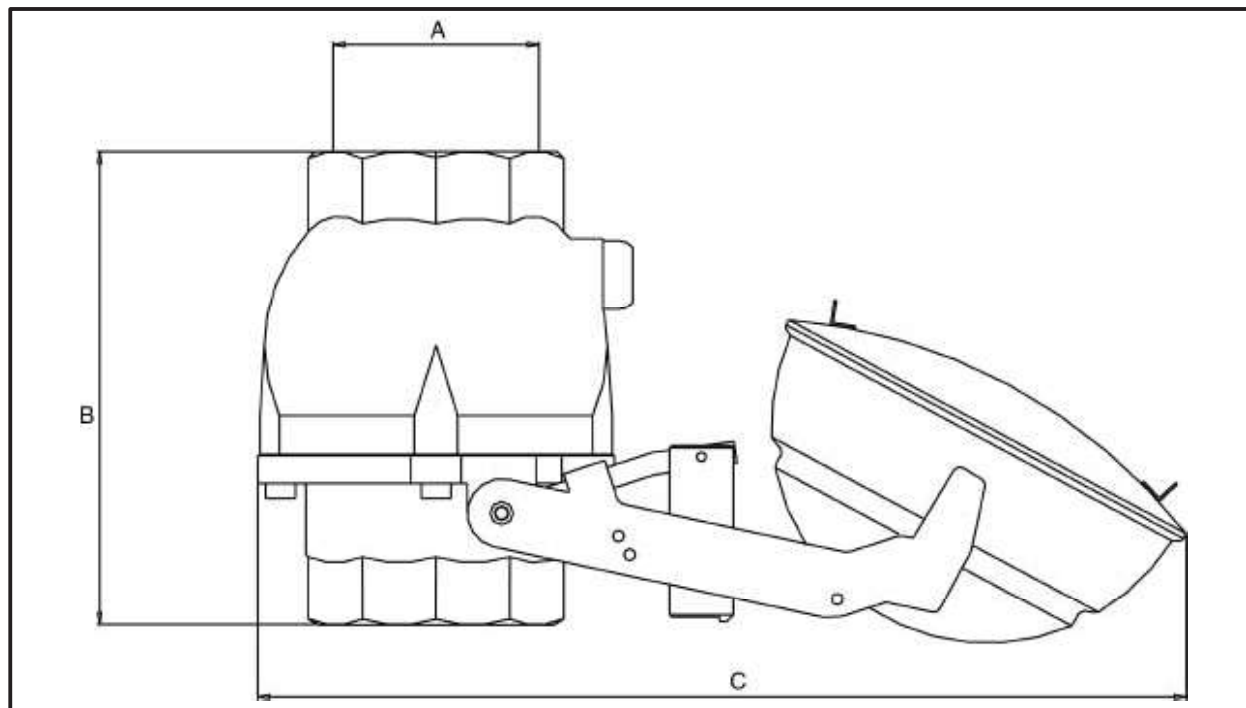
An electrical continuity test must be carried out after installation of the device by qualified personnel in charge of installation and maintenance.

2) Holder clip for OPD identification plate

Designation	Part no.
Parallel holder clip DN50	308 242
Parallel holder clip DN80	308 243
Bracket holder clip DN40-DN50	308 244
Bracket holder clip DN80-DN100	308 247



VII) TECHNICAL DATA



Dimension	2" Model N	3" Model N	4" Model N
A (mm)	Ø50/60	Ø80/90	Ø102/114
B (mm)	159	207	193
C (mm)	350	406	406
Construction	2" Model N	3" Model N	4" Model N
Body	Aluminium	Aluminium	Aluminium
Float	DC 04 Steel	DC 04 Steel	DC 04 Steel
Counterweight, valve	Brass	Brass	Brass
Counterweight rod	AS300 Steel	AS300 Steel	AS300 Steel
Fastenings and other parts	Stainless steel	Stainless steel	Stainless steel
Operating	2" Model N	3" Model N	4" Model N
Connection	G2" BSP F/F	G3" BSP F/F	G4" BSP F/F
Min. Pressure	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)
Max. Pressure	50 psi (345 kPa)	50 psi (345 kPa)	50 psi (345 kPa)
Min. Flow	6,2 gal/min (23 L/min)	15,9 gal/min (60 L/min)	24,6 gal/min (93 L/min)
Max. Flow	187 gal/min (708 L/min)	360 gal/min (1363 L/min)	360 gal/min (1363 L/min)
Max. Viscosity rating	55 cSt	55 cSt	55 cSt
Temperature	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)
Type of transfer	Pump or gravity	Pump or gravity	Pump or gravity
Weight	3,50 kg	6,00 kg	6,20 kg

VIII) STANDARDS AND APPROVALS

The Self Climat overfill prevention device is subject to regular operating tests in order to guarantee the quality of the product and obtain new certificates of conformity.

To date the overfill prevention device comply with the following standards :

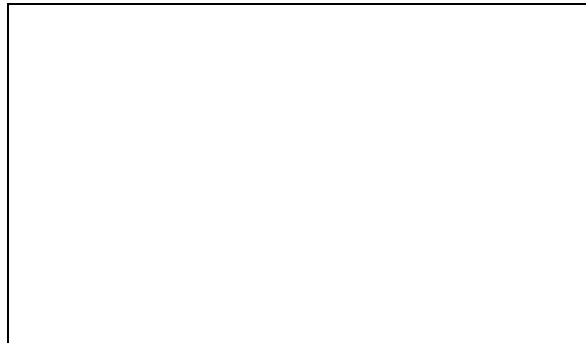
Description	USA / CANADA	Europe	The Netherlands
OPD 2" Model N	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03
OPD 3" Model N	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03
OPD 4" Model N	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03

As the Self Climat system can operate by gravity and with pumps, its use is now recommended in most countries in Europe and worldwide.



Self Climat MORVAN
Z.I. Sud – Rue des Epinettes
CS 50152 TORCY
77208 Marne-la-Vallée CEDEX 01
France
Tél. : +33 (0)1 60 05 18 53
export@selfclimat-morvan.com
www.selfclimat.com

Your Distributor



Head office :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S with Capital of €315 000
SIREN registration no.698 202 868 00023
NAF Code 4674B
VAT No. FR 25 698 202 868

Tel : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

**Limiteur de remplissage
pour hydrocarbures**

- 2" Model N
- 3" Model N
- 4" Model N

INSTRUCTION DE MONTAGE ET MODE D'EMPLOI

**ACCESSOIRES DE RESERVOIRS DE
CARBURANT POUR LIQUIDES
INFLAMMABLES ET COMBUSTIBLES**

**INFORMATION IMPORTANTE –
SUIVRE TOUTES LES INSTRUCTIONS**



 **US LISTED**
MH62282



Siège social :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S au capital de 315 000 €
N° SIREN 698 202 868 00023
NAF 4674B
N° TVA FR 25 698 202 868

Tél : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

AVERTISSEMENT !

CE MANUEL DOIT ÊTRE LU AVEC ATTENTION PAR TOUTES LES PERSONNES QUI ONT OU QUI AURONT LA RESPONSABILITÉ DE L'INSTALLATION OU DE L'UTILISATION DU PRODUIT.

MISE EN GARDE !

POUR DES RAISONS DE SÉCURITÉ, CET APPAREIL DOIT ÊTRE UTILISÉ PAR DU PERSONNEL HABILITÉ À TRAVAILLER SUR DU MATÉRIEL UTILISABLE DANS DES ATMOSPHÈRES EXPLOSIBLES. L'UTILISATION DE CE MATÉRIEL PAR DU PERSONNEL NON QUALIFIÉ OU TOUTE AUTRE DÉVIATION DE CETTE PROCÉDURE PEUT ENTRAINER DES DOMMAGES OU UN MAUVAIS FONCTIONNEMENT.

VEUILLEZ LIRE ET PRENDRE PLEINE CONNAISSANCE DE CE MANUEL AVANT UTILISATION.

TABLE DES MATIÈRES

I	Marquage	15
II	Caractéristiques générales	15
III	Instructions d'utilisation	18
	3.1 Consignes de sécurité	18
	3.2 Mise en service	18
	3.3 Fonctionnement	18
IV	Montage	20
	4.1 Installation du limiteur de remplissage	20
	4.2 Entretien et dépannage	21
	4.3 Démontage	21
V	Conditions particulières	21
VI	Accessoires en option	21
VII	Données techniques	23
VIII	Normes et agréments	24

FOURNITURES

A réception du colis, veuillez-vous assurer de l'emballage d'origine et du bon état du matériel.

La fourniture doit comprendre :

- le limiteur de remplissage Self Climat
- la plaque signalétique avec deux clous sous pochette
- le manuel d'instructions

I) MARQUAGE

Les limiteurs de remplissage Model N (2", 3" et 4") de **Self Climat** sont construits conformément aux normes suivantes :

- **ANSI/CAN/UL/ULC 2583 :2021** Norme de sécurité UL sur les accessoires de réservoirs de carburant pour liquides inflammables et combustibles

LDR 2" MODEL N	LDR 3" MODEL N	LDR 4" MODEL N
Automatic overfill shutoff 2" Model N For Automotive Similar Fuels Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids ANSI/CAN/UL/ULC 2583:2021	Automatic overfill shutoff 3" Model N For Automotive Similar Fuels Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids ANSI/CAN/UL/ULC 2583:2021	Automatic overfill shutoff 4" Model N For Automotive Similar Fuels Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids ANSI/CAN/UL/ULC 2583:2021
 US LISTED MH62282 Rated Flow: 187 gal/min (708 L/min) Max pressure: 50 psi (345 kPa)	 US LISTED MH62282 Rated Flow: 360 gal/min (1363 L/min) Max pressure: 50 psi (345 kPa)	 US LISTED MH62282 Rated Flow: 360 gal/min (1363 L/min) Max pressure: 50 psi (345 kPa)

II) CARACTÉRISTIQUES GÉNÉRALES

Le limiteur de remplissage **Self Climat** est un appareil de sécurité mécanique placé sur le tube de remplissage à l'intérieur du réservoir de stockage de liquide.

Cet appareil « Dispositif anti-débordement à sécurité totale » a pour objet de réduire les risques pour l'environnement, les risques de pollution de l'eau ainsi que tout risque d'incendie ou d'explosion susceptibles de se produire lors du remplissage de réservoirs de stockage de produits industriels ou chimiques.

Avant son installation, il est obligatoire de s'assurer de la compatibilité entre le limiteur de remplissage et la nature de liquide stocké à l'intérieur du réservoir, les caractéristiques du liquide déterminant le type de limiteur de remplissage à installer.

Pour cela, le Service Technique **Self Climat** possède les connaissances requises pour conseiller l'installateur dans son choix.

LIMITEUR DE REMPLISSAGE						
Désignation	Débit max.	DN	Pression max.	Utilisation prévue	Température* d'utilisation	Température max. fluide
LDR 2" Model N	187 gal/min (708 L/min)	50	50 psi (345kPa)	Fuel domestique, gazole, essence, essence sans plomb, super.	-30°C (-22°F)/+50°C(122°F)	+80°C
LDR 3" Model N	360 gal/min (1363 L/min)	80	50 psi (345 kPa)		-30°C (-22°F)/+50°C(122°F)	+80°C
LDR 4" Model N	360 gal/min (1363 L/min)	100	50 psi (345 kPa)		-30°C (-22°F)/+50°C(122°F)	+80°C

* La température de l'équipement dépend de la température du fluide.

Ces produits sont destinés à être utilisés avec des réservoirs de stockage ou des systèmes de ravitaillement qui contiennent des carburants automobiles et des carburants ou liquides similaires dans les conditions d'utilisation prévues et dans les expositions présentant des propriétés de compatibilité chimique, physique et matérielle semblables à celles décrites aux présentes. Les carburants applicables doivent être interprétés comme étant :

- a) les produits pétroliers, y compris les hydrocarbures pétroliers à faible teneur en mélanges de biocombustibles, et les dérivés du pétrole liquide inflammables ou combustibles similaires, comme les composés de carburant (cétane, hexane, heptane) et les huiles (huiles lubrifiantes, huiles hydrauliques, huiles mouvement);
- b) les mélanges de carburants oxygénés, y compris tous les « produits pétroliers » liquides, ainsi que les hydrocarbures pétroliers à faible teneur en mélanges de biocombustibles;
- c) les produits oxygénés, y compris tous les « produits pétroliers » et « mélanges de carburants oxygénés » liquides, ainsi que les bases pures/dénaturées oxygénées ou les bases à plus forte oxygénation utilisées pour mélanger des mélanges et composés à faible teneur distribués, comme le biodiesel et l'éthanol; et
- d) les autres liquides inflammables et combustibles (pour lesquels les carburants d'essai de l'annexe A ne sont pas considérés comme suffisants ou applicables) qui peuvent être démontrés ou déterminés comme étant compatibles avec les matériaux des accessoires tels que déterminés par le certificateur.

Les produits couverts par la présente norme sont destinés à être installés et utilisés conformément aux documents applicables de la liste suivante :

a) Aux États-Unis :

- 1) NFPA 30, Flammable and Combustible Liquids Code ;
- 2) NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages ;
- 3) NFPA 1, Fire Code ;
- 4) International Fire Code, publié par l'International Fire Council ; ou
- 5) Autres règlements fédéraux et d'État applicables au produit ou à l'application dans laquelle il est utilisé, comme le DOT dans le cas des réservoirs portatifs/mobiles.

b) Au Canada :

- 1) Code national de prévention des incendies du Canada ;
- 2) CAN/CSA-B139, Code d'installation des appareils de combustion au mazout ;
- 3) CCME PN1326, Code de recommandations techniques pour la protection de l'environnement applicable aux systèmes de stockage hors sol et souterrains de produits pétroliers et de produits apparentés ; et
- 4) Réglementation de l'autorité compétente.

III) INSTRUCTIONS D'UTILISATION

3.1 / Consignes de sécurité

Toute modification de l'appareil peut invalider la certification de celui-ci. Consulter les certificats ainsi que les documents relatifs aux équipements de l'appareil afin de s'informer de la classe de température et du groupe d'explosion. L'intervenant doit être habilité pour les interventions ATEX afin d'éviter la dégradation du mode de protection des équipements certifiés.

3.2 / Mise en service

L'installation et les raccordements ne peuvent être effectués que par du personnel qualifié.

Les normes correspondantes et les réglementations nationales en matière de sécurité des appareils, de même que les règles générales admises dans le domaine technique doivent impérativement être respectées.

3.3 / Fonctionnement

Introduction

Le limiteur de remplissage Self Climat permet le remplissage du réservoir qu'il équipe jusqu'à un niveau de fermeture N1. A ce niveau, il assure une fermeture automatique et complète.

A ce stade, il permet une réouverture pour assurer la vidange du flexible et éventuellement de la canalisation de remplissage, sans risque de débordement (volume de vidange minimum : 150 litres).

Enfin, il permet la fermeture automatique et complète sans réouverture possible à un niveau prédéterminé Nmax.

Le Limiteur de Remplissage Self Climat peut équiper indépendamment les installations de remplissage par gravité ou par groupe de pompage pour les hydrocarbures de 2ème catégorie.

Fonctionnement détaillé

PRINCIPE DE FONCTIONNEMENT DU LDR Self Climat À MASSELOTES

- Le flotteur est en position basse.
- Le piston en position haute (ouverture totale).
- Les lumières d'écoulement sont totalement dégagées.

1) PROCESSUS DE FERMETURE AVANT LE NIVEAU N1

- Le flotteur commence sa montée progressivement sous l'action de la pression hydraulique.
- Les 2 masselottes sont entraînées par l'entretoise n°1 du porte flotteur.
- Le piston obstrue partiellement les lumières d'écoulement.
- Le flotteur poursuit sa montée.
- A mi-course, les 2 masselottes se désolidarisent de l'entretoise n°1 et sont entraînées par l'entretoise n°2 du porte flotteur.
- Les masselottes achèvent leur montée sous l'action de la pression hydraulique et entraînent le flotteur avec elles.
- Les lumières d'écoulement sont fermées.
- Le piston est en position de fermeture totale sous l'action de la pression hydraulique.

2) A CET INSTANT LE NIVEAU N1 EST ATTEINT : LE LIMITEUR ASSURE UNE FERMETURE TOTALE.

3) LE FLOTTEUR EST MAINTENU IMMERGÉ AU NIVEAU N1

4) PROCÉDER À LA FERMETURE DE LA VANNE CAMION ET À LA PRISE D'AIR HABITUELLE

5) VIDANGE DU FLEXIBLE

Après avoir procédé à la fermeture de la vanne camion et à la prise d'air additionnelle, l'élimination progressive de la pression résiduelle exercée sur le piston est assurée grâce :

- aux trous de fuites percés sur l'enveloppe de la chambre du piston.
- à l'ouverture de la soupape de décharge.

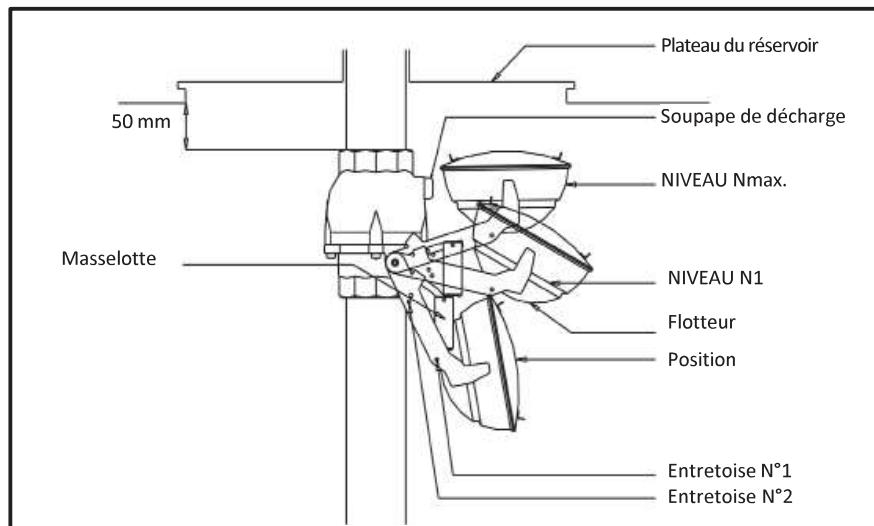
A cette décompression progressive s'ajoute le poids des deux masselottes exercées sur l'entretoise n°2 du porte flotteur qui accélère la réouverture partielle du piston et assure ainsi la vidange complète du flexible.

6) FERMETURE AU NIVEAU Nmax

Dépotage accidentel – vidange du flexible trop importante – non-respect des débits selon la norme en vigueur.

Dans ce cas, le flotteur immergé continue sa course en entraînant les deux masselottes par l'entretoise n°2 du porte flotteur.

Le piston assure à nouveau la fermeture totale.



IV) MONTAGE

4.1 / Installation du limiteur de remplissage

IMPORTANT : Pendant le montage, protégez le limiteur contre les impuretés telles que le sable !

L'utilisateur devra lors de l'installation en présence d'ATEX, ne jamais créer de situation de fermeture brutale du limiteur entraînant des vitesses de choc supérieures à celles prévues en fonctionnement dans les limites de débits et pressions maximales prévues.

1 : Il est recommandé de positionner le Limiteur dans l'axe longitudinal du réservoir. Appliquer un joint d'étanchéité approprié sur le filetage du tuyau pendant l'installation du LDR. Le joint d'étanchéité doit être résistant au liquide stocké à l'intérieur du réservoir. Assurez-vous qu'il n'y a pas de résidus à l'intérieur du LDR ou de fuite d'étanchéité afin d'éviter tout dommage, dysfonctionnement ou blocage pendant son fonctionnement !

2 : Monter le Limiteur de Remplissage sur la douille du tuyau sous le plateau de trou d'homme en plaçant le flotteur sous le testeur. La cote de 50 mm minimum entre le dessus du limiteur et le générateur du réservoir doit absolument être respectée. (Figure 2)

3 : Raccorder le tuyau (position 2/Figure 1) au limiteur :

- mesurer la distance X entre la bague du trou d'homme (position 1/figure 1) et le fond du réservoir.
- raccourcir le tuyau de façon à laisser 70 mm d'espace entre le dessous du tuyau et le fond du réservoir.
- Placer le LDR verticalement, soulever et relâcher le flotteur pour s'assurer qu'il fonctionne librement.

4 : Afin de respecter la mise à la terre du limiteur de remplissage lors de son montage dans la cuve, il convient de s'assurer de l'équipotentialité entre la douille du tuyau du trou d'homme (Rep.A- Figure 2) et le flotteur du limiteur (Rep.B-Figure 2). Un test de continuité électrique est à prévoir par la personne responsable de la mise en œuvre de l'installation.

5 : Remettre le couvercle de trou d'homme après montage de la conduite de remplissage et vérifier si le flotteur ne frotte pas contre les tuyaux internes.

6 : Vérifier le diamètre de l'évent du réservoir dont la section doit être au moins égale au quart de la section de la tuyauterie de remplissage.

7 : Monter la plaque d'identification sur la conduite de remplissage.

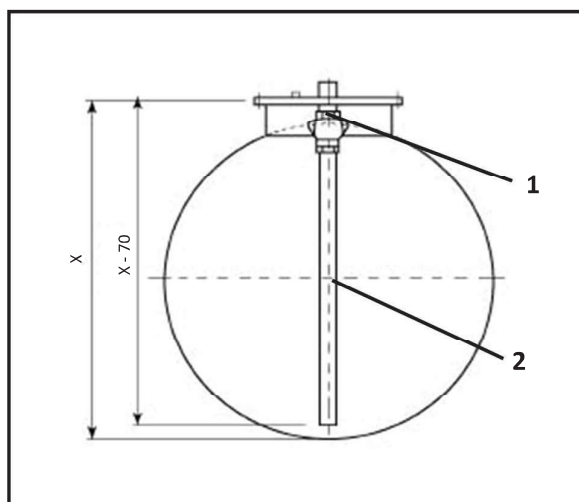


Figure 1

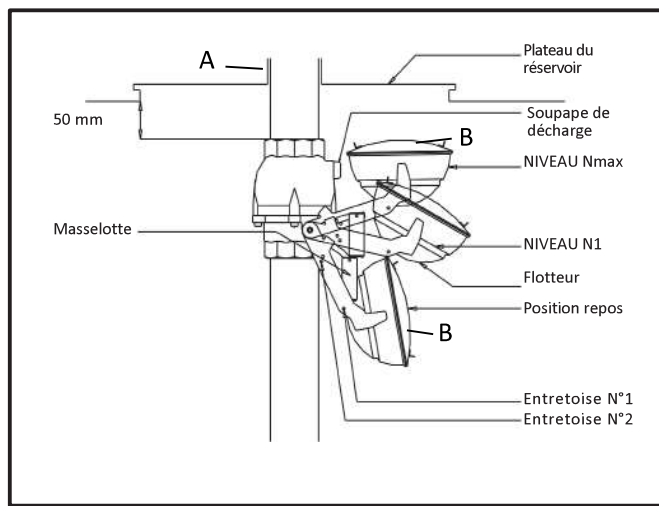


Figure 2

Attention : Ne pas mettre en pression la cuve en dehors de la plage [- 30 kPa à +100 kPa] afin d'éviter toute détérioration éventuelle du limiteur de remplissage.

4.2 / Entretien et dépannage

L'utilisateur devra lors de la maintenance en présence d'ATEX, ne jamais créer de situation de fermeture brutale du limiteur entraînant des vitesses de choc supérieures à celles prévues en fonctionnement dans les limites de débits et pressions maximales prévues

Les opérations pouvant être effectuées par l'utilisateur se limitent à l'installation et aux raccordements. Toute intervention de démontage, réparation ou modification sur le limiteur de remplissage annule systématiquement la garantie constructeur.

Par conséquent, toute intervention ne peut être effectuée que par la société « Self Climat » après retour de l'appareil d'origine à l'usine.

En cas de défaillance du limiteur de remplissage, celui-ci sera à retourner à :

Self Climat
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

Toute intervention de maintenance doit être réalisée ainsi qu'un test de continuité électrique en respect des normes EN en vigueur en matière d'entretien des moyens d'exploitation en zone à risque d'explosion et les dispositions nationales doivent impérativement être respectées. Afin de respecter la mise à la terre du limiteur de remplissage, il convient de s'assurer de l'équipotentialité entre la douille du tuyau du trou d'homme (cf. Rep.A- Figure 2) et le flotteur du limiteur (cf. Rep.B-Figure 2). Toute intervention doit être effectuée par les personnes qualifiées en charge de l'installation.

4.3 / Démontage

Le Limiteur de Remplissage ne peut être démonté qu'en cas de dysfonctionnement ou de remplacement de celui-ci.

Il ne peut être démonté que par du personnel habilité à travailler sur du matériel utilisable dans les atmosphères explosibles.

V) CONDITIONS PARTICULIÈRES

Les limiteurs de remplissage automatiques Self Climat sont garantis un an contre tout vice de fabrication reconnu par notre usine à dater du jour de facturation.

Nos limiteurs ne peuvent en aucun cas subir de modifications quelles qu'elles soient, sans entraîner la perte de la garantie.

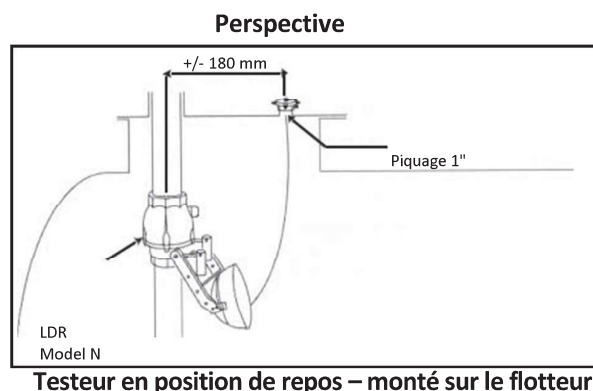
N'étant pas installé par nos soins, il ne peut être prétendu à quelque indemnité que ce soit pour cause directe et indirecte.

VI) ACCESSOIRES EN OPTION

1) Le testeur Réf: 308 267

Composition

- Câble inox $\varnothing$ 1mm Lg 2 m à une extrémité un anneau de traction, à l'autre extrémité un serre câble.
- Raccord zamak filetage femelle Rp1 x G 1 ¼ M équipé d'un couvercle en zamak et chaînette en laiton.

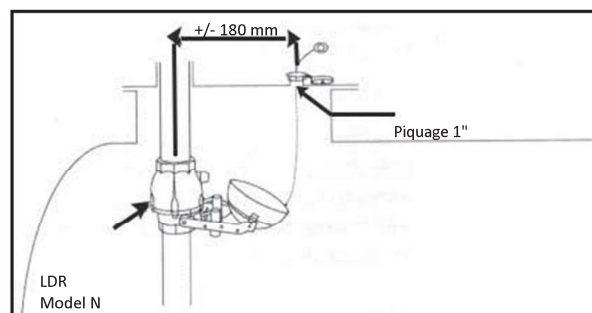


Méthode de test

1. Moyen de vérification manuelle du bon fonctionnement du limiteur.
2. A l'aide de l'anneau, exercer progressivement une traction sur le câble afin d'amener le flotteur en position haute.

Faire redescendre lentement le flotteur à sa position de repos. Recommencer cette manoeuvre plusieurs fois pour s'assurer qu'aucun obstacle ne s'oppose au libre mouvement du flotteur sur toute sa trajectoire.

Perspective 2



Testeur en position d'essai – monté sur le flotteur

Il est impératif de veiller à ce que l'orifice du testeur soit toujours placé sur le plateau de trou d'homme et non pas sur le corps du réservoir.

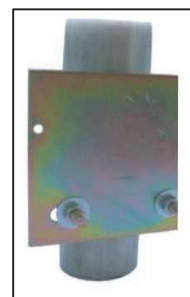
Procédure

Lorsque le testeur est installé, il est obligatoire de vérifier son bon fonctionnement avant tout premier remplissage de la cuve selon le procédé décrit dans Méthode de test. Ceci permet de valider la bonne installation du LDR. Une fois le testeur installé, il est obligatoire de procéder à cette vérification au moins une fois par an.

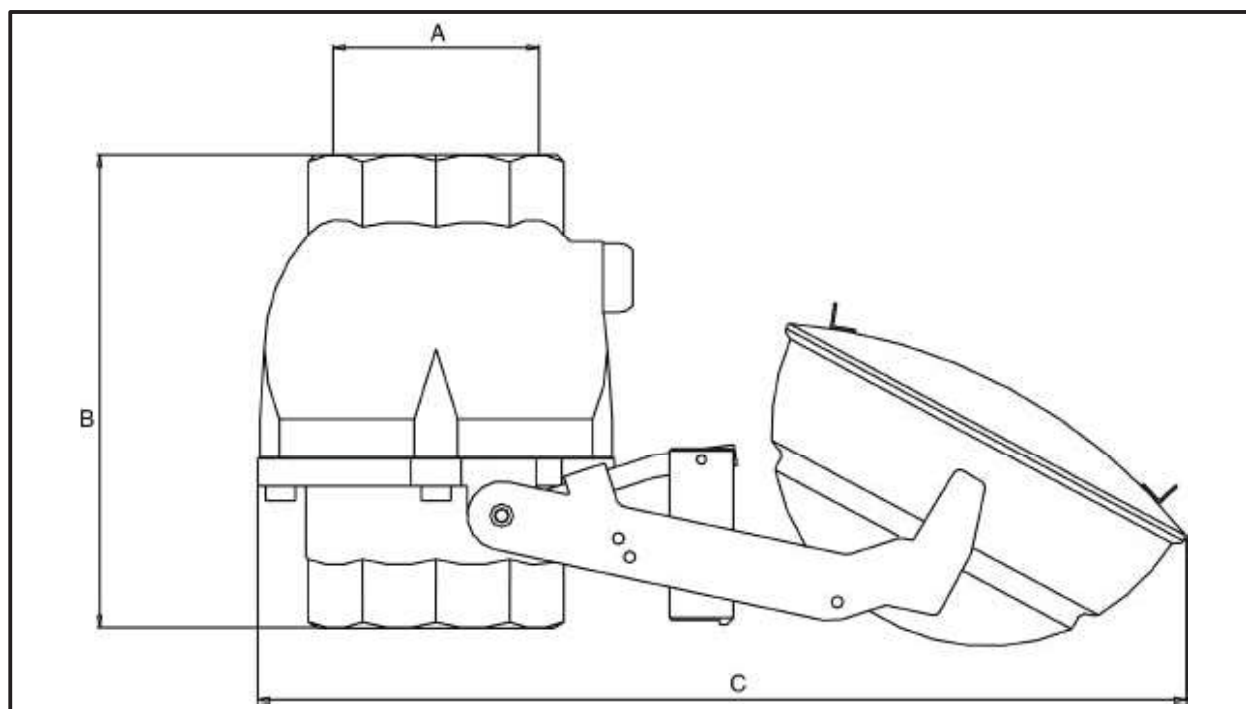
Un test de continuité électrique doit être effectué après la mise en place du dispositif par le personnel qualifié en charge de l'installation et de la maintenance.

2) Collier de support

Désignation	Référence
Collier de support parallèle DN50 avec étrier	308 242
Collier de support parallèle DN80 avec étrier	308 243
Collier de support équerre DN40-DN50 avec étrier	308 244
Collier de support équerre DN80-DN100 avec étrier	308 247



VII) DONNÉES TECHNIQUES



Dimension	2" Model N	3" Model N	4" Model N
A (mm)	Ø50/60	Ø80/90	Ø102/114
B (mm)	159	207	193
C (mm)	350	406	406
Construction	2" Model N	3" Model N	4" Model N
Corps	Aluminium	Aluminium	Aluminium
Flotteur	Acier DC 04	Acier DC 04	Acier DC 04
Masselotte, soupape	Laiton	Laiton	Laiton
Tige masselotte	Acier AS300	Acier AS300	Acier AS300
Visserie et autre pièces	Inox	Inox	Inox
Fonctionnement	2" Model N	3" Model N	4" Model N
Raccordement	G2" BSP F/F	G3" BSP F/F	G4" BSP F/F
Pression Min.	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)
Pression Max.	50 psi (345 kPa)	50 psi (345 kPa)	50 psi (345 kPa)
Débit Min.	6,2 gal/min (23 L/min)	15,9 gal/min (60 L/min)	24,6 gal/min (93 L/min)
Débit Max.	187 gal/min (708 L/min)	360 gal/min (1363 L/min)	360 gal/min (1363 L/min)
Taux de viscosité Max	55 cSt	55 cSt	55 cSt
Température	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)
Type de dépôtage	Pompe ou gravité	Pompe ou gravité	Pompe ou gravité
Poids	3,50 kg	6,00 kg	6,20 kg

VIII) NORMES ET AGRÉMENTS

Le limiteur de remplissage Self Climat subit des tests et essais de fonctionnement réguliers afin de garantir la qualité du produit et d'obtenir des nouveaux certificats de conformité.

A ce jour le Limiteur de remplissage est conforme aux normes suivantes :

Description	USA / CANADA	Europe	Pays-Bas
LDR 2" Model N	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03
LDR 3" Model N	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03
LDR 4" Model N	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03

Le système Self Climat pouvant fonctionner indépendamment par gravité ou par groupe de pompage, son utilisation est aujourd'hui préconisée dans la plupart des pays d'Europe et du monde entier.



Self Climat MORVAN
Z.I. Sud – Rue des Epinettes
CS 50152 TORCY
77208 Marne-la-Vallée CEDEX 01
France
Tél. : +33 (0)1 60 05 18 53
export@selfclimat-morvan.com
www.selfclimat.com

Votre distributeur



Siège social :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S au capital de 315 000 €
N° SIREN 698 202 868 00023
NAF 4674B
N° TVA FR 25 698 202 868

Tél : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

Overfill prevention devices for chemical industry

- 2" Model NT
- 3" Model NT
- 3" Model INOX

FITTING AND OPERATING INSTRUCTIONS

FUEL TANK ACCESSORIES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS

IMPORTANT INFORMATION - FOLLOW ALL INSTRUCTIONS



OPD Model NT

 **US LISTED**
MH62282



OPD Model INOX



Head office :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S with capital of €315 000
SIREN registration no. 698 202 868 00023
NAF Code 4674B
VAT No. FR 25 698 202 868

Tel : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

WARNING !

THIS MANUAL SHOULD BE READ CAREFULLY BY ALL PERSONS WHO ARE OR WILL BE RESPONSIBLE FOR THE INSTALLATION OR OPERATION OF THE PRODUCT.

CAUTION !

FOR SAFETY REASONS, THIS DEVICE SHALL ONLY BE ASSEMBLED AND INSTALLED BY QUALIFIED PERSONS AUTHORISED TO WORK ON EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES. THE USE OF NON-QUALIFIED PERSONNEL, OR ANY DEVIATIONS FROM THIS RECOMMENDED PROCEDURES, COULD RESULT IN DAMAGE OR MALFUNCTION.

PLEASE READ AND DIGEST THIS MANUAL BEFORE USING THE APPLIANCE.

CONTENTS

I	Marking	3
II	General specifications	3
	2.1 Description	3
III	Operating instructions	5
	3.1 Safety instructions	5
	3.2 Starting up	5
	3.3 Operation	5
IV	Fitting	7
	4.1 Installation of the overfill prevention device	7
	4.2 Maintenance and trouble shooting	8
	4.3 Dismantling	8
V	Special conditions	8
VI	Optional accessories	8
VII	Technical data	10
VIII	Standards and approvals	11

SUPPLIES

On receipt of the delivery, check that the packaging is original and that the equipment is in good condition.
The supply should comprise:

- The Self Climat overfill prevention device
- The manufacturer's plate and two nails in a sachet
- The instruction manual

I) MARKING

The **Self Climat** overfill prevention devices Model NT (2" and 3") and Model INOX (3") are constructed according to the following standards :

- **ANSI/CAN/UL/ULC UL 2583:2021, Fuel Tank Accessories for Flammable and Combustible Liquids.**

OPD 2" MODEL NT	OPD 3" MODEL NT	LDR 3" MODEL INOX
Automatic overfill shutoff 2" Model NT For Automotive Similar Fuels Manufacturer: Self Climat® FRANCE Supplier: Western Global® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids	Automatic overfill shutoff 3" Model NT For Automotive Similar Fuels Manufacturer: Self Climat® FRANCE Supplier: Western Global® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids	Automatic overfill shutoff 3" Model INOX For Automotive Similar Fuels Manufacturer: Self Climat® FRANCE Supplier: Western Global® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids
 US LISTED MH62282 Rated Flow: 188 gal/min (712 L/min) Max pressure: 50 psi (345 kPa)	 US LISTED MH62282 Rated Flow: 317 gal/min (1200 L/min) Max pressure: 50 psi (345 kPa)	 US LISTED MH62282 Rated Flow: 347 gal/min (1313 L/min) Max pressure: 50 psi (345 kPa)

II) GENERAL SPECIFICATIONS

2.1 / Description

The **Self Climat** overfill prevention device is a mechanical safety device placed on the filling tube inside the liquid storage tank.

The purpose of this «completely safe overflow prevention device» is to reduce environmental risks, water pollution risks and all fire or explosion risks that could arise while filling liquid petroleum fuel storage tanks.

It is essential to verify the compatibility between the overfill prevention device and the liquid stored in the tank, as the characteristics of the liquid determine the model or type of overfill prevention device to be installed.

The **Self Climat** technical dept has all the information necessary to advise installing technicians in their choices.

OVERFILL PREVENTION DEVICE						
Description	Rated Flow	DN	Max pressure	Working temperature*	Max fluid temperature	
OPD 2" Model NT	188 gal/min (712 L/min)	50	50 psi (345 kPa)	-30°C (-22°F)/+50°C(122°F)	+80°C	
OPD 3" Model NT	317 gal/min (1200 L/min)	80	50 psi (345 kPa)	-30°C (-22°F)/+50°C(122°F)	+80°C	
OPD 3" Model INOX	347 gal/min (1313 L/min)	80	50 psi (345 kPa)	-30°C (-22°F)/+50°C(122°F)	+80°C	

* The temperature of the equipment depends on the temperature of the fluid

These products are intended for use with storage tanks or fueling systems containing automotive fuels and similar fuels or liquids under the expected use conditions and exposures that have similar chemical, physical and material compatibility properties as represented in these requirements. The applicable fuels are intended to be formulated as :

- a) Petroleum products, including petroleum hydrocarbon fuels with low-biofuels blends, and similar flammable or combustible liquid petroleum derivatives, such as fuel components (cetane, hexane, heptane), and oils (lubricating, hydraulic, machine);
- b) Oxygenated fuel blends, including all “petroleum product” liquids plus petroleum hydrocarbon fuels with low-biofuels blends;
- c) Oxygenates, including all “petroleum product” and “oxygenated fuel blends” liquids plus pure/denatured or highest oxygenated blend stocks for use in mixing of dispensed lower fuel blends and components, such as biodiesel and ethanol; and
- d) Other flammable and combustible liquids (for which the test fuels in Annex A are not considered to be sufficient or applicable) that can be demonstrated or determined to be compatible with the accessory materials as determined by the certifier.

Products covered by this Standard are intended to be installed and used in accordance with the applicable documents in the following list:

a) In the United States :

- 1) NFPA 30, Flammable and Combustible Liquids Code ;
- 2) NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages ;
- 3) NFPA 1, Fire Code ;
- 4) International Fire Code published by the International Fire Council ; or
- 5) Other Applicable Federal and State regulations for the specific product or application it is being utilized in, such as DOT for portable/mobile tanks.

b) In Canada :

- 1) National Fire Code of Canada ;
- 2) CAN/CSA-B139, Installation code for oil-burning equipment;
- 3) CCME PN1326, Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products; and
- 4) Regulation of the authority having jurisdiction.

III) OPERATING INSTRUCTIONS

3.1 / Safety instructions

Any modification to the appliance may invalidate its certification. Consult the certificates and the documents relative to the fittings to the appliance in order to check on the temperature class and explosion group. The person doing the work should be authorized for ATEX work to prevent the deterioration of the mode of protection of the equipment certified.

3.2 / Starting up

Installation and connection can only be done by qualified personnel.

The corresponding UL and ULC standards and national regulations covering the safety of appliances, as well as general rules accepted in technical field, must be followed.

3.3 / Operation

Introduction

The Self Climat overfill prevention device allows the tank it is fitted to, to be filled to a predetermined level L1.

At this closure, a residual flow of liquid upstream of the appliances is authorized once the level is reached and the filling procedure has stopped.

The Self Climat overfill prevention device can equip gravity filled or pumped installations.

Detailed operation

OPERATING PRINCIPLE OF THE SELF CLIMAT OVERFILL PREVENTION DEVICES MODEL NT (2" and 3") AND MODEL INOX (3")

1) OVERFILL PREVENTION DEVICE IN THE REST POSITION

- The float is in the bottom position.
- The piston is in the top position (fully open).
- The drain ports are completely open.

2) THE CLOSING PROCESS BEFORE THE L1 LEVEL

- The progressive rise in the level inside the tank causes the float to rise
- This causes the progressive closure of the piston
- This piston partially closes the drain ports.
- The float continues to rise.
- The drain ports are closed.
- The increasing hydraulic pressure causes the complete closure of the piston.

3) AT THIS POINT THE LEVEL IS REACHED: THE OVERFILL PREVENTION DEVICE IS FULLY CLOSED

- The piston totally closes the drain ports.
- The float is in the top position.

4) CLOSE THE LORRY VALVE AND PROCEED TO THE ADDITIONAL AIR INLET

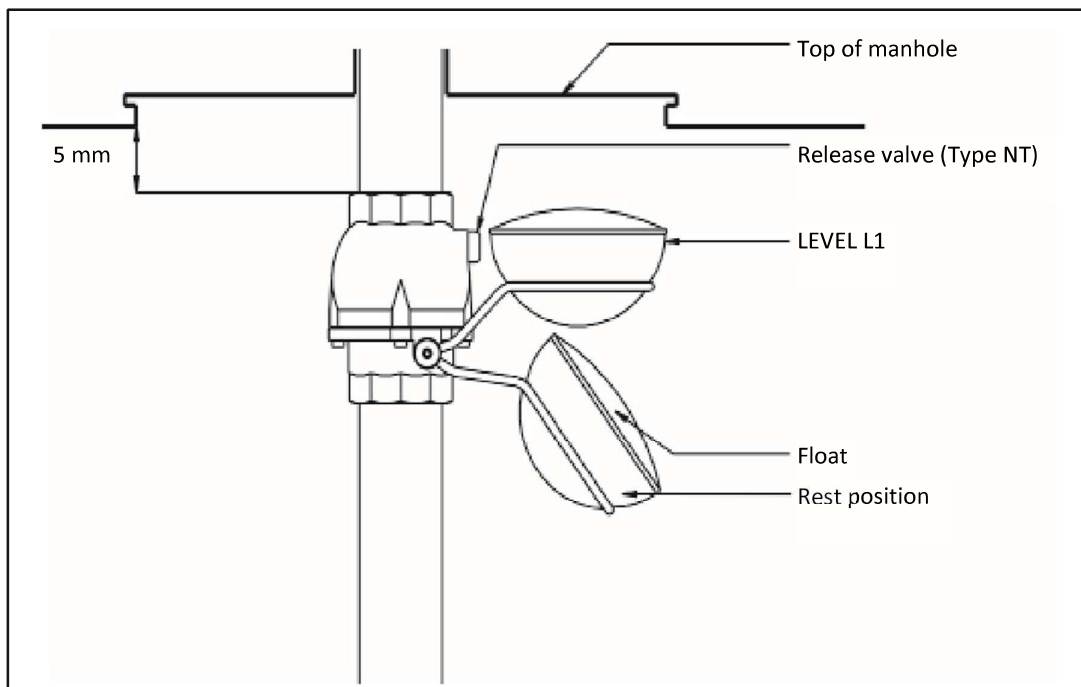
5) RESIDUAL VOLUME

After closing the lorry valve and proceeding to the additional air inlet, the residual pressure on the piston is cancelled out. At this moment :

- The float is kept submerged.
- The piston rises partially.
- The drain ports are partially open.

This partial opening of the drain ports allows any residual liquid upstream of the appliance to flow out.

It is possible to calculate the residual volume accepted, bearing in mind that the difference in height allowed is approximately 20 mm after level L1.



IV) FITTING

4.1 / Installation of the overfill prevention device

IMPORTANT : Protect the Overfill Prevention Device against impurities such as sand during fitting. Care must be taken to prevent any damage, blockage and dysfunction to the OPD!

When installing in the presence of ATEX, the user must never create a situation of sudden closing of the limiter resulting in impact speeds higher than those expected in operation within the limits of maximum flow rates and pressures provided.

1 : We recommend positioning the overfill prevention device on the longitudinal axis of the tank. Apply a suitable thread sealant on the pipe thread during installation of the OPD. The thread sealant must be resistant to the liquid stored inside the tank. Make sure there is no leakage or sealant residue inside the OPD in order to avoid any damage, dysfunction or blockage during its operation !

2 : Mount the overfill prevention device on the pipe sleeve under the manhole plate, placing the float under the tester. The 50 mm minimum distance between the top of the overfill prevention device and the tank generator must be respected in all circumstances. (Figure 2)

3 : Connect the pipe (position 2/Figure 1) to the ball valve :

- measure distance X between the manhole ring (position 1/Figure 1) and the tank bottom.
- shorten the pipe to leave a space of 70 mm between the bottom of the pipe and the tank bottom.
- stand the assembly upright, lift the float and release it to make sure it works freely.

4 : In order to respect the grounding of the Overfill Prevention Device during its assembly in the tank, it is necessary to ensure the equipotentiality between the socket of the manhole pipe (Rep.A- Figure 2) and the OPD float (Rep.B-Figure 2). An electrical continuity test must be carried out by the person responsible for implementing the installation.

5 : Replace the manhole plate after fitting the filler pipe and check that the float cannot rub against the internal pipes.

6 : Check the diameter of the tank vent. Its cross-section should be at least equal to a quarter of the crosssection of the filler pipe.

7 : Fit the manufacturer's plate in the filler pipe.

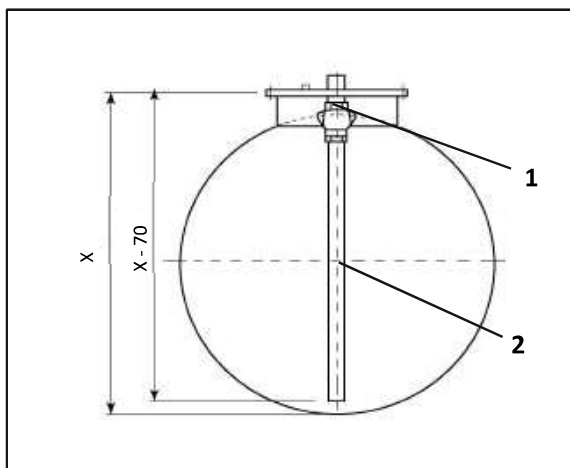


Figure 1

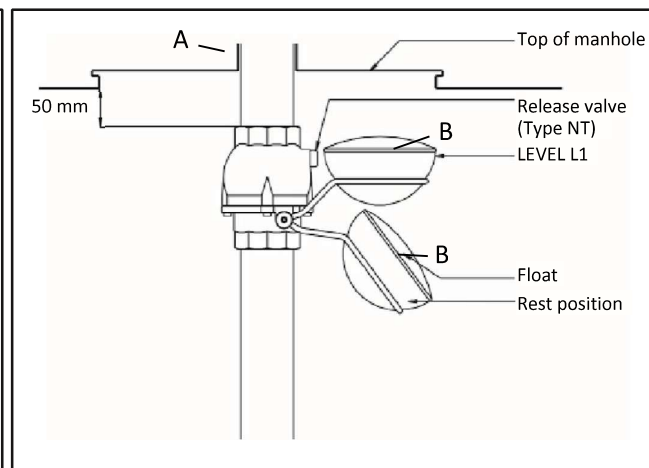


Figure 2

Caution: Do not pressurize the tank outside the range [- 30 kPa to +100 kPa] in order to avoid any possible damage to the OPD.

4.2 / Maintenance and trouble shooting

The user must, during maintenance in the presence of ATEX, never create a situation of sudden closing of the OPD resulting in impact speeds higher than those expected in operation within the limits of maximum flow rates and pressures provided.

The operations that can be carried out by the user are limited to installation and connections. Any dismantling, repair or modification of the Overfill Prevention Device systematically voids the manufacturer's warranty.

Consequently, any intervention can only be carried out by the company "Self Climat" after return of the original device to the factory.

In the event of failure of the Overfill Prevention Device, it must be returned to:

Self Climat
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

Any maintenance intervention must be carried out as well as an electrical continuity test in compliance with the EN standards in force for the maintenance of operating means in areas at risk of explosion and national provisions must be respected. In order to respect the grounding of the Overfill Prevention Device, it is necessary to ensure equipotentiality between the socket of the manhole pipe (Rep.A- Figure 2) and the float of the OPD (Rep.B-Figure 2). Any intervention must be carried out by qualified people in charge of the installation.

4.3 / Dismantling

The overfill prevention device can only be dismantled in the event of malfunctioning or replacement.

It can only be dismantled by personnel authorized to work on equipment for use in explosive atmospheres.

V) SPECIAL CONDITIONS

Self Climat automatic overfill prevention devices are guaranteed for one year from the invoice date against manufacturing faults accepted by our factory.

Our overfill prevention devices cannot be modified in any way without causing a loss warranty.

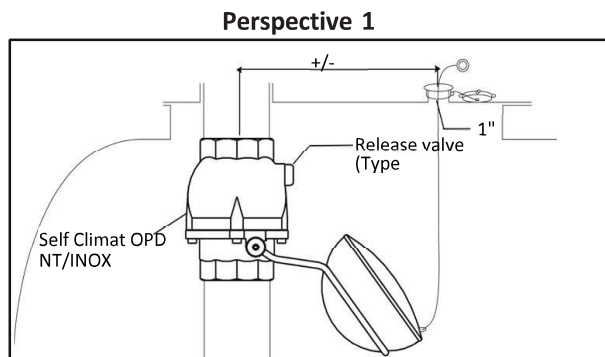
As we do not install the equipment ourselves no claim whatsoever for indemnity will be accepted whether for direct or indirect causes.

VI) OPTIONAL ACCESSORIES

1) OPD cable tester: 308 267

Composition

- Stainless steel cable Ø 1 mm, 2 m length. At one end a traction ring and at the other a cable clamp.
- Zamak union female thread Rp1 x G1 ¼ M , fitted with a zamak cover and a brass chain.



Tester in the rest position - fitted on the float

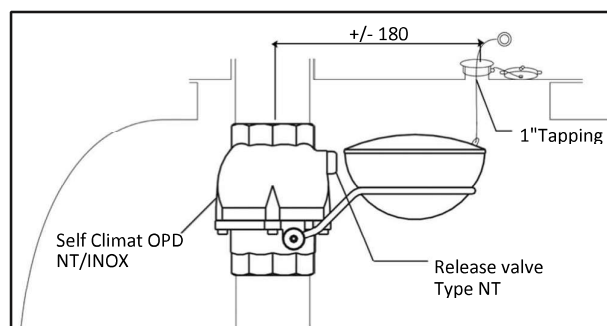
Test method

A means of manually testing the correct operation of the float valve.

Pull the cable progressively, using the ring, to bring the float to its top position.

Lower the float slowly to its rest position. Repeat this operation several times to make sure that nothing prevents the float moving freely throughout its travel.

Perspective 2



Tester in the test position - fitted on the float

It is essential to ensure that the tester orifice is always on the manhole plate and not on the tank.

Procedure

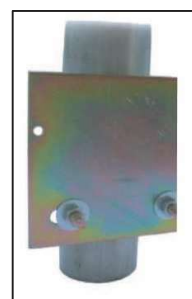
When the tester is installed, it is essential to check its operation according to the procedure described in Test Method before filling the tank for the first time. This enables the correct installation of the overfill prevention device to be confirmed.

Once the tester is installed, this check must be performed at least once a year.

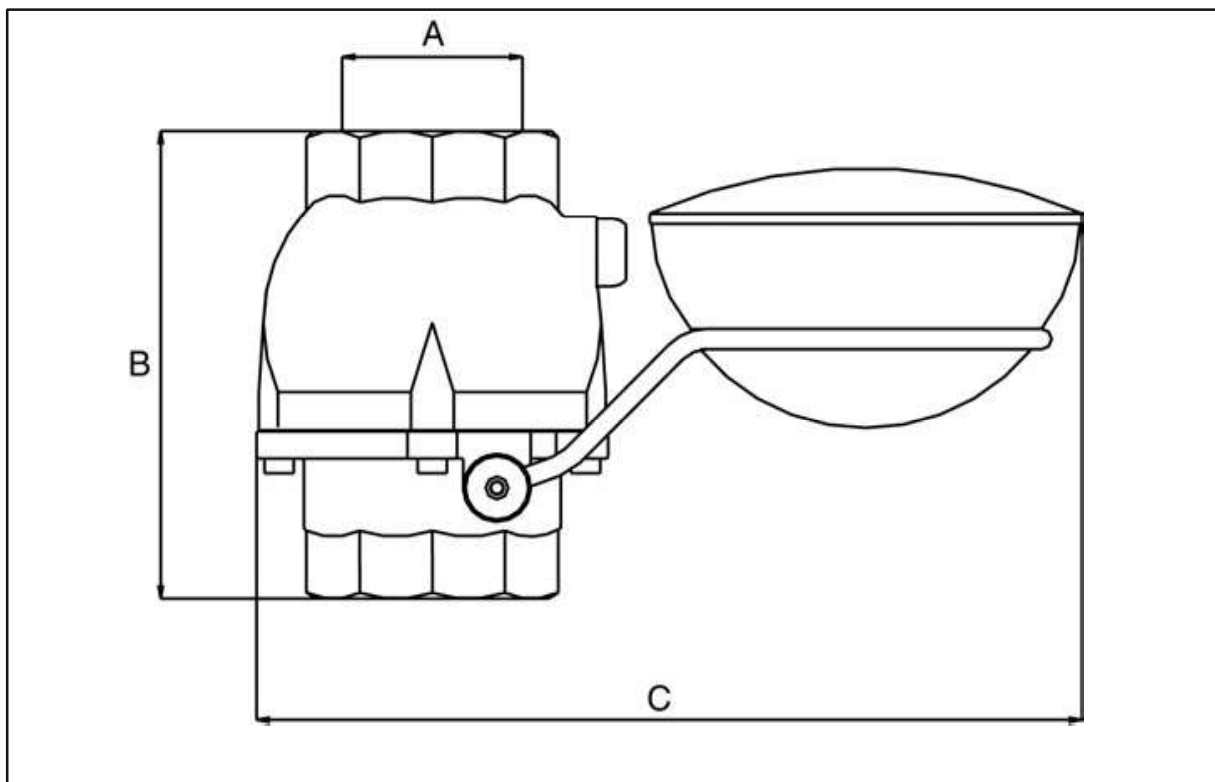
An electrical continuity test must be carried out after installation of the device by qualified personnel in charge of installation and maintenance.

2) Holder clip for OPD identification plate

Designation	Part no.
Parallel holder clip DN50	308 242
Parallel holder clip DN80	308 243
Bracket holder clip DN40-DN50	308 244
Bracket holder clip DN80-DN100	308 247



VII) TECHNICAL DATA



Dimension	2" Model NT	3" Model NT	3" Model INOX
A (mm)	Ø50/60	Ø80/90	Ø80/90
B (mm)	159	207	207
C (mm)	295	400	400
Construction	2" Model NT	3" Model NT	3" Model INOX
Body	Anodised Aluminium	Anodised Aluminium	Stainless steel
Float	Stainless steel	Stainless steel	Stainless steel
Fastenings and other parts	Stainless steel	Stainless steel	Stainless steel
Operating	2" Model NT	3" Model NT	3" Model INOX
Connection	G2" BSP F/F	G3" BSP F/F	G4" BSP F/F
Min. Pressure	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)
Max. Pressure	50 psi (345 kPa)	50 psi (345 kPa)	50 psi (345 kPa)
Min. Flow	6,2 gal/min (23 L/min)	15,9 gal/min (60 L/min)	15,9 gal/min (60 L/min)
Max. Flow	188 gal/min (712 L/min)	317 gal/min (1200 L/min)	347 gal/min (1313 L/min)
Max. Viscosity rating	55 cSt	55 cSt	55 cSt
Temperature	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)
Type of transfer	Pump or gravity	Pump or gravity	Pump or gravity
Weight	2,50 kg	5 kg	9,80 kg

VIII) STANDARDS AND APPROVALS

The Self Climat overfill prevention device is subject to regular operating tests in order to guarantee the quality of the product and obtain new certificates of conformity.

To date the overfill prevention device comply with the following standards :

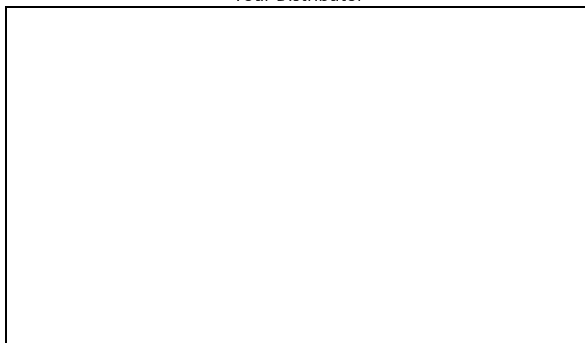
Description	USA / CANADA	Europe	The Netherlands
OPD 2" Model NT	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03
OPD 3" Model NT	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03
OPD 3" Model INOX	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K636/03

As the Self Climat system can operate by gravity and with pumps, its use is now recommended in most countries in Europe and worldwide.



Self Climat MORVAN
Z.I. Sud – Rue des Epinettes
CS 50152 TORCY
77208 Marne-la-Vallée CEDEX 01
France
Tél. : +33 (0)1 60 05 18 53
export@selfclimat-morvan.com
www.selfclimat.com

Your Distributor



Head office :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S with Capital of €315 000
SIREN registration no.698 202 868 00023
NAF Code 4674B
VAT No. FR 25 698 202 868

Tel : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

**Limiteur de remplissage
Pour industrie chimique**

- 2" Model NT
- 3" Model NT
- 3" Model INOX

INSTRUCTION DE MONTAGE ET MODE D'EMPLOI

**ACCESSOIRES DE RESERVOIRS DE
CARBURANT POUR LIQUIDES
INFLAMMABLES ET COMBUSTIBLES**

**INFORMATION IMPORTANTE –
SUIVRE TOUTES LES INSTRUCTIONS**



LDR Model NT



LDR Model INOX

 **US LISTED**
MH62282



Siège social :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S au capital de 315 000 €
N° SIREN 698 202 868 00023
NAF 4674B
N° TVA FR 25 698 202 868

Tél : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

AVERTISSEMENT !

CE MANUEL DOIT ÊTRE LU AVEC ATTENTION PAR TOUTES LES PERSONNES QUI ONT OU QUI AURONT LA RESPONSABILITÉ DE L'INSTALLATION OU DE L'UTILISATION DU PRODUIT.

MISE EN GARDE !

POUR DES RAISONS DE SÉCURITÉ, CET APPAREIL DOIT ÊTRE UTILISÉ PAR DU PERSONNEL HABILITÉ À TRAVAILLER SUR DU MATÉRIEL UTILISABLE DANS DES ATMOSPHÈRES EXPLOSIBLES. L'UTILISATION DE CE MATÉRIEL PAR DU PERSONNEL NON QUALIFIÉ OU TOUTE AUTRE DÉVIATION DE CETTE PROCÉDURE PEUT ENTRAÎNER DES DOMMAGES OU UN MAUVAIS FONCTIONNEMENT.

VEUILLEZ LIRE ET PRENDRE PLEINE CONNAISSANCE DE CE MANUEL AVANT UTILISATION.

TABLE DES MATIÈRES

I	Marquage	15
II	Caractéristiques générales	15
2.1	Description	15
III	Instructions d'utilisation	17
3.1	Consignes de sécurité	17
3.2	Mise en service	17
3.3	Fonctionnement	17
IV	Montage	19
4.1	Installation du limiteur de remplissage	19
4.2	Entretien et dépannage	20
4.3	Démontage	20
V	Conditions particulières	20
VI	Accessoires en option	20
VII	Données techniques	22
VIII	Normes et agréments	23

FOURNITURES

A réception du colis, veuillez-vous assurer de l'emballage d'origine et du bon état du matériel.

La fourniture doit comprendre :

- le limiteur de remplissage Self Climat
- la plaque signalétique avec deux clous sous pochette
- le manuel d'instructions

I) MARQUAGE

Les limiteurs de remplissage Model NT (2" et 3") et Model INOX (3") de **Self Climat** sont construits conformément aux normes suivantes :

- **ANSI/CAN/UL/ULC 2583 :2021** Norme de sécurité UL sur les accessoires de réservoirs de carburant pour liquides inflammables et combustibles

OPD 2" MODEL NT	OPD 3" MODEL NT	LDR 3" MODEL INOX
Automatic overfill shutoff 2" Model NT For Automotive Similar Fuels Manufacturer: Self Climat® FRANCE Supplier: Western Global® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids  US LISTED MH62282 Rated Flow: 188 gal/min (712 L/min) Max pressure: 50 psi (345 kPa)	Automatic overfill shutoff 3" Model NT For Automotive Similar Fuels Manufacturer: Self Climat® FRANCE Supplier: Western Global® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids  US LISTED MH62282 Rated Flow: 317 gal/min (1200 L/min) Max pressure: 50 psi (345 kPa)	Automatic overfill shutoff 3" Model INOX For Automotive Similar Fuels Manufacturer: Self Climat® FRANCE Supplier: Western Global® UK For Installation by Qualified Persons – Follow All Instructions Fuel Tank Accessories for Flammable and Combustible Liquids  US LISTED MH62282 Rated Flow: 347 gal/min (1313 L/min) Max pressure: 50 psi (345 kPa)

II) CARACTÉRISTIQUES GÉNÉRALES

2.1 / Description

Le limiteur de remplissage **Self Climat** est un appareil de sécurité mécanique placé sur le tube de remplissage à l'intérieur du réservoir de stockage de liquide.

Cet appareil « Dispositif anti-débordement à sécurité totale » a pour objet de réduire les risques pour l'environnement, les risques de pollution de l'eau ainsi que tout risque d'incendie ou d'explosion susceptibles de se produire lors du remplissage de réservoirs de stockage de produits industriels ou chimiques.

Avant son installation, il est obligatoire de s'assurer de la compatibilité entre le limiteur de remplissage et la nature de liquide stocké à l'intérieur du réservoir, les caractéristiques du liquide déterminant le type de limiteur de remplissage à installer.

Pour cela, le Service Technique **Self Climat** possède les connaissances requises pour conseiller l'installateur dans son choix.

LIMITEUR DE REMPLISSAGE 					
Description	Débit max.	DN	Pression max.	Température d'utilisation *	Température max. fluide
LDR 2" Model NT	188 gal/min (712 L/min)	50	50 psi (345 kPa)	-30°C (-22°F)/+50°C(122°F)	+80°C
LDR 3" Model NT	317 gal/min (1200 L/min)	80	50 psi (345 kPa)	-30°C (-22°F)/+50°C(122°F)	+80°C
LDR 3" Model INOX	347 gal/min (1313 L/min)	80	50 psi (345 kPa)	-30°C (-22°F)/+50°C(122°F)	+80°C

* La température de l'équipement dépend de la température du fluide.

Ces produits sont destinés à être utilisés avec des réservoirs de stockage ou des systèmes de ravitaillement qui contiennent des carburants automobiles et des carburants ou liquides similaires dans les conditions d'utilisation prévues et dans les expositions présentant des propriétés de compatibilité chimique, physique et matérielle semblables à celles décrites aux présentes. Les carburants applicables doivent être interprétés comme étant :

- a) les produits pétroliers, y compris les hydrocarbures pétroliers à faible teneur en mélanges de biocombustibles, et les dérivés du pétrole liquide inflammables ou combustibles similaires, comme les composés de carburant (cétane, hexane, heptane) et les huiles (huiles lubrifiantes, huiles hydrauliques, huiles mouvement);
- b) les mélanges de carburants oxygénés, y compris tous les « produits pétroliers » liquides, ainsi que les hydrocarbures pétroliers à faible teneur en mélanges de biocombustibles;
- c) les produits oxygénés, y compris tous les « produits pétroliers » et « mélanges de carburants oxygénés » liquides, ainsi que les bases pures/dénaturées oxygénées ou les bases à plus forte oxygénation utilisées pour mélanger des mélanges et composés à faible teneur distribués, comme le biodiesel et l'éthanol; et
- d) les autres liquides inflammables et combustibles (pour lesquels les carburants d'essai de l'annexe A ne sont pas considérés comme suffisants ou applicables) qui peuvent être démontrés ou déterminés comme étant compatibles avec les matériaux des accessoires tels que déterminés par le certificateur.

Les produits couverts par la présente norme sont destinés à être installés et utilisés conformément aux documents applicables de la liste suivante :

a) Aux États-Unis :

- 1) NFPA 30, Flammable and Combustible Liquids Code ;
- 2) NFPA 30A, Code for Motor Fuel Dispensing Facilities and Repair Garages ;
- 3) NFPA 1, Fire Code ;
- 4) International Fire Code, publié par l'International Fire Council ; ou
- 5) Autres règlements fédéraux et d'État applicables au produit ou à l'application dans laquelle il est utilisé, comme le DOT dans le cas des réservoirs portatifs/mobiles.

b) Au Canada :

- 1) Code national de prévention des incendies du Canada ;
- 2) CAN/CSA-B139, Code d'installation des appareils de combustion au mazout ;
- 3) CCME PN1326, Code de recommandations techniques pour la protection de l'environnement applicable aux systèmes de stockage hors sol et souterrains de produits pétroliers et de produits apparentés ; et
- 4) Réglementation de l'autorité compétente.

III) INSTRUCTIONS D'UTILISATION

3.1 / Consignes de sécurité

Toute modification de l'appareil peut invalider la certification de celui-ci. Consulter les certificats ainsi que les documents relatifs aux équipements de l'appareil afin de s'informer de la classe de température et du groupe d'explosion. L'intervenant doit être habilité pour les interventions ATEX afin d'éviter la dégradation du mode de protection des équipements certifiés.

3.2 / Mise en service

L'installation et les raccordements ne peuvent être effectués que par du personnel qualifié.

Les normes correspondantes et les réglementations nationales en matière de sécurité des appareils, de même que les règles générales admises dans le domaine technique doivent impérativement être respectées.

3.3 / Fonctionnement

Introduction

Le limiteur de remplissage Self Climat permet le remplissage du réservoir qu'il équipe jusqu'à un niveau de fermeture N1.

A cette fermeture un écoulement résiduel de liquide resté en amont de l'appareil est autorisé une fois ce niveau atteint et la procédure de remplissage est arrêtée.

Le Limiteur de Remplissage Self Climat peut équiper indépendamment les installations de remplissage par gravité ou par groupe de pompage.

Fonctionnement détaillé

PRINCIPE DE FONCTIONNEMENT DU LDR Self Climat MODEL NT (2"ET 3") ET MODEL INOX (3")

1) LIMITEUR DE REMPLISSAGE EN POSITION REPOS

- Le flotteur est en position basse.
- Le piston en position haute (ouverture totale).
- Les lumières d'écoulement sont totalement dégagées.

2) PROCESSUS DE FERMETURE AVANT LE NIVEAU N1

- La montée progressive du niveau à l'intérieur de la cuve entraîne l'élévation du flotteur.
- Celui-ci actionne la fermeture progressive du piston.
- Le piston obstrue partiellement les lumières d'écoulement.
- Le flotteur poursuit sa montée.
- Les lumières d'écoulement sont fermées.
- La pression hydraulique croissante entraîne la fermeture totale du piston.

3) À CET INSTANT LE NIVEAU N1 EST AT TEINT : LE LIMITEUR ASSURE UNE FERMETURE TOTALE.

- Le piston obstrue totalement les lumières d'écoulement.
- Le flotteur est en position haute.

4) PROCEDER À LA FERMETURE DE LA VANNE CAMION ET À LA PRISE D'AIR ADDITIONNELLE

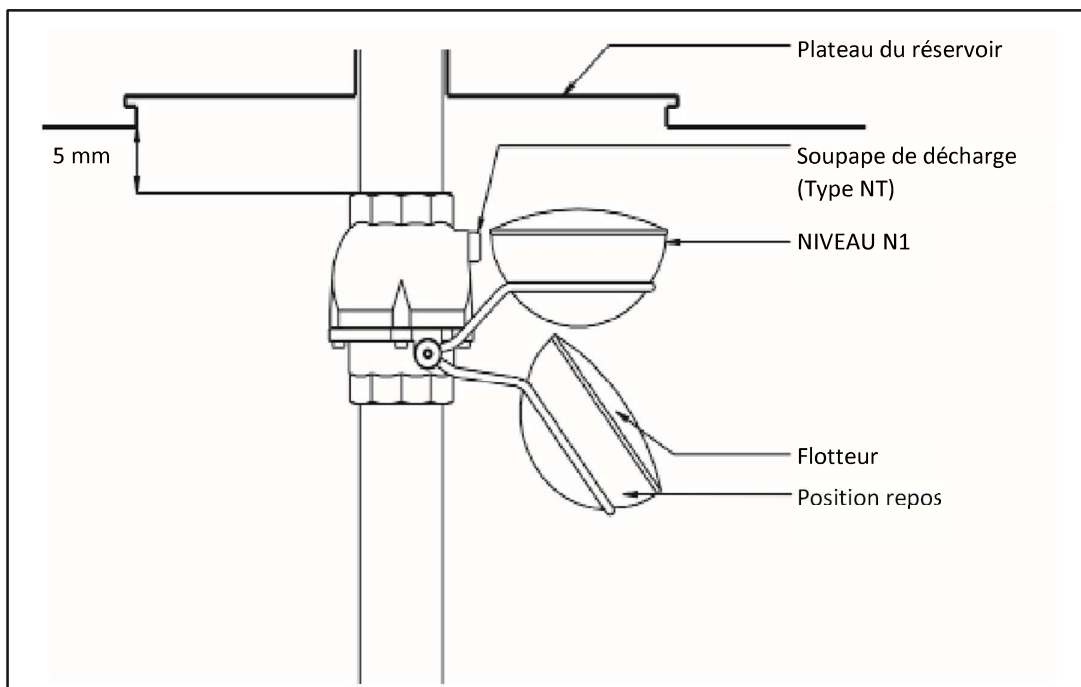
5) VOLUME RESIDUEL

Après avoir procédé à la fermeture de la vanne camion et à la prise d'air additionnelle, la pression résiduelle exercée sur le piston s'élimine à ce moment :

- Le flotteur est maintenu immergé.
- Le piston remonte partiellement.
- Les lumières d'écoulement sont partiellement ouvertes.

Cette ouverture partielle des lumières d'écoulement permet un écoulement résiduel de liquide resté éventuellement en amont de l'appareil.

Il est possible de calculer le volume résiduel admis sachant que la différence de hauteur autorisée correspond environ à 20 mm après le niveau N1.



IV) MONTAGE

4.1 / Installation du limiteur de remplissage

IMPORTANT: Pendant le montage, protégez le limiteur contre les impuretés telles que le sable. Un soin particulier doit être pris afin de prévenir tout dommage, blocage et dysfonctionnement du LDR !

L'utilisateur devra lors de l'installation en présence d'ATEX, ne jamais créer de situation de fermeture brutale du limiteur entraînant des vitesses de choc supérieures à celles prévues en fonctionnement dans les limites de débits et pressions maximales prévues.

1 : Il est recommandé de positionner le Limiteur dans l'axe longitudinal du réservoir. Appliquer un joint d'étanchéité approprié sur le filetage du tuyau pendant l'installation du LDR. Le joint d'étanchéité doit être résistant au liquide stocké à l'intérieur du réservoir. Assurez-vous qu'il n'y a pas de résidus à l'intérieur du LDR ou de fuite d'étanchéité afin d'éviter tout dommage, dysfonctionnement ou blocage pendant son fonctionnement !

2 : Monter le Limiteur de Remplissage sur la douille du tuyau sous le plateau de trou d'homme en plaçant le flotteur sous le testeur. La cote de 50 mm minimum entre le dessus du limiteur et le générateur du réservoir doit absolument être respectée. (Figure 2)

3 : Raccorder le tuyau (position 2/Figure 1) au limiteur :

- mesurer la distance X entre la bague du trou d'homme (position 1/figure 1) et le fond du réservoir.
- raccourcir le tuyau de façon à laisser 70 mm d'espace entre le dessous du tuyau et le fond du réservoir.
- Placer le LDR verticalement, soulever et relâcher le flotteur pour s'assurer qu'il fonctionne librement.

4 : Afin de respecter la mise à la terre du limiteur de remplissage lors de son montage dans la cuve, il convient de s'assurer de l'équipotentialité entre la douille du tuyau du trou d'homme (Rep.A- Figure 2) et le flotteur du limiteur (Rep.B-Figure 2). Un test de continuité électrique est à prévoir par la personne responsable de la mise en œuvre de l'installation.

5 : Remettre le couvercle de trou d'homme après montage de la conduite de remplissage et vérifier si le flotteur ne frotte pas contre les tuyaux internes.

6 : Vérifier le diamètre de l'évent du réservoir dont la section doit être au moins égale au quart de la section de la tuyauterie de remplissage.

7 : Monter la plaque d'identification sur la conduite de remplissage.

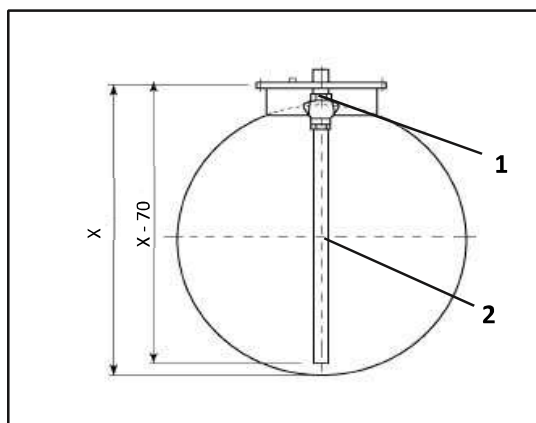


Figure 1

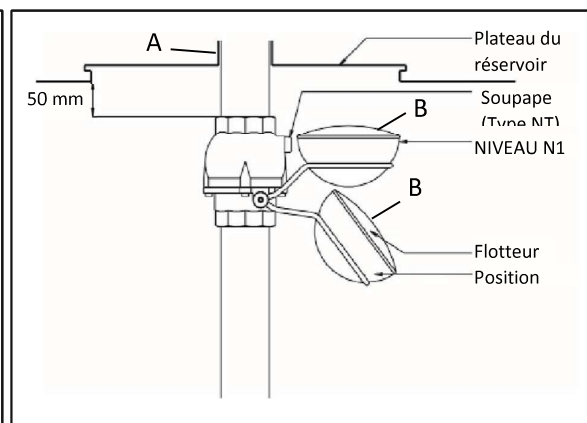


Figure 2

Attention : Ne pas mettre en pression la cuve en dehors de la plage [- 30 kPa à +100 kPa] afin d'éviter toute détérioration éventuelle du limiteur de remplissage.

4.2 / Entretien et dépannage

L'utilisateur devra lors de la maintenance en présence d'ATEX, ne jamais créer de situation de fermeture brutale du limiteur entraînant des vitesses de choc supérieures à celles prévues en fonctionnement dans les limites de débits et pressions maximales prévues

Les opérations pouvant être effectuées par l'utilisateur se limitent à l'installation et aux raccordements. Toute intervention de démontage, réparation ou modification sur le limiteur de remplissage annule systématiquement la garantie constructeur.

Par conséquent, toute intervention ne peut être effectuée que par la société « Self Climat » après retour de l'appareil d'origine à l'usine.

En cas de défaillance du limiteur de remplissage, celui-ci sera à retourner à :

Self Climat
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

Toute intervention de maintenance doit être réalisée ainsi qu'un test de continuité électrique en respect des normes EN en vigueur en matière d'entretien des moyens d'exploitation en zone à risque d'explosion et les dispositions nationales doivent impérativement être respectées. Afin de respecter la mise à la terre du limiteur de remplissage, il convient de s'assurer de l'équipotentialité entre la douille du tuyau du trou d'homme (Rep.A-Figure 2) et le flotteur du limiteur (Rep.B-Figure 2). Toute intervention doit être effectuée par les personnes qualifiées en charge de l'installation.

4.3 / Démontage

Le Limiteur de Remplissage ne peut être démonté qu'en cas de dysfonctionnement ou de remplacement de celui-ci.

Il ne peut être démonté que par du personnel habilité à travailler sur du matériel utilisable dans les atmosphères explosibles.

V) CONDITIONS PARTICULIÈRES

Les limiteurs de remplissage automatiques Self Climat sont garantis un an contre tout vice de fabrication reconnu par notre usine à dater du jour de facturation.

Nos limiteurs ne peuvent en aucun cas subir de modifications quelles qu'elles soient, sans entraîner la perte de la garantie.

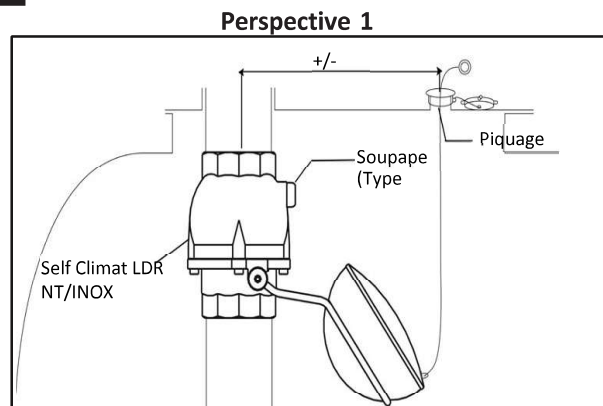
N'étant pas installé par nos soins, il ne peut être prétendu à quelque indemnité que ce soit pour cause directe et indirecte.

VI) ACCESSOIRES EN OPTION

1) Le testeur Réf: 308 267

Composition

- Câble inox $\varnothing$ 1mm Lg 2 m à une extrémité un anneau de traction, à l'autre extrémité un serre câble.
- Raccord zamak filetage femelle Rp1 x G 1 ¼ M, équipé d'un couvercle en zamak et chaînette en laiton.



Testeur en position de repos – monté sur le flotteur

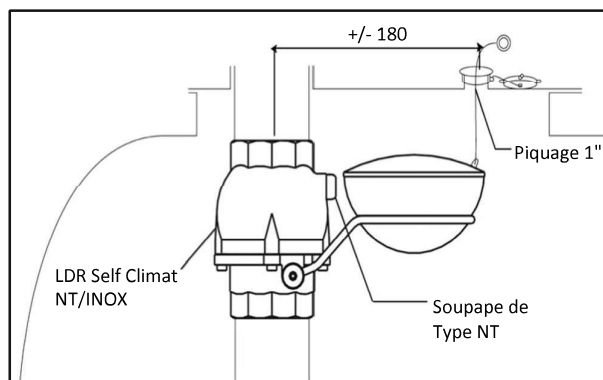
Méthode de test

Moyen de vérification manuelle du bon fonctionnement du limiteur.

A l'aide de l'anneau, exercer progressivement une traction sur le câble afin d'amener le flotteur en position haute.

Faire redescendre lentement le flotteur à sa position de repos. Recommencer cette manoeuvre plusieurs fois pour s'assurer qu'aucun obstacle ne s'oppose au libre mouvement du flotteur sur toute sa trajectoire.

Perspective 2



Testeur en position d'essai – monté sur le flotteur

Il est impératif de veiller à ce que l'orifice du testeur soit toujours placé sur le plateau de trou d'homme et non pas sur le corps du réservoir.

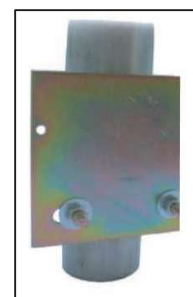
Procédure

Lorsque le testeur est installé, il est obligatoire de vérifier son bon fonctionnement avant tout premier remplissage de la cuve selon le procédé décrit dans Méthode de test. Ceci permet de valider la bonne installation du LDR. Une fois le testeur installé, il est obligatoire de procéder à cette vérification au moins une fois par an.

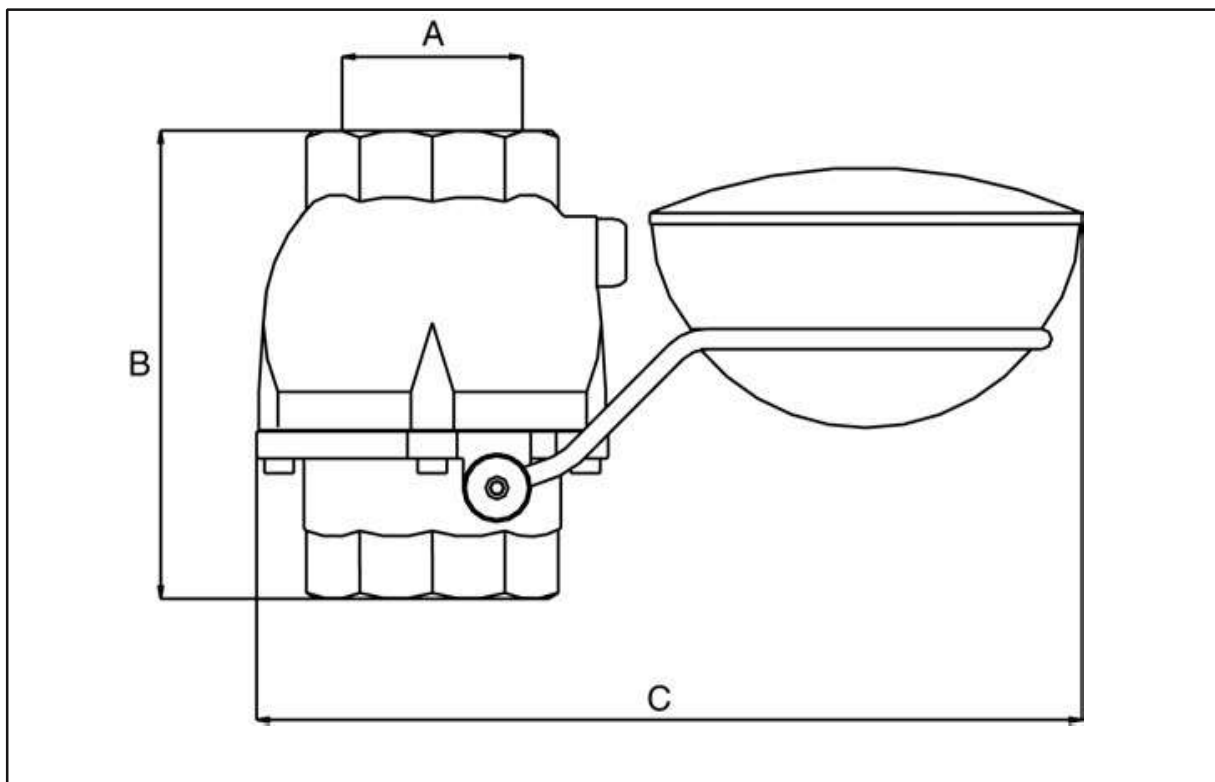
Un test de continuité électrique doit être effectué après la mise en place du dispositif par le personnel qualifié en charge de l'installation et de la maintenance.

2) Collier de support

Désignation	Référence
Collier de support parallèle DN50 avec étrier	308 242
Collier de support parallèle DN80 avec étrier	308 243
Collier de support équerre DN40-DN50 avec étrier	308 244
Collier de support équerre DN80-DN100 avec étrier	308 247



VII) DONNÉES TECHNIQUES



Dimension	2" Model NT	3" Model NT	3" Model INOX
A (mm)	Ø50/60	Ø80/90	Ø80/90
B (mm)	159	207	207
C (mm)	295	400	400
Construction	2" Model NT	3" Model NT	3" Model INOX
Corps	Aluminium anodisé	Aluminium anodisé	Inox
Flotteur	Inox	Inox	Inox
Visserie et autre pièces	Inox	Inox	Inox
Fonctionnement	2" Model NT	3" Model NT	3" Model INOX
Raccordement	G2" BSP F/F	G3" BSP F/F	G3" BSP F/F
Pression Min.	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)	2,2 psi (13,7 kPa)
Pression Max.	50 psi (345 kPa)	50 psi (345 kPa)	50 psi (345 kPa)
Débit Min.	6,2 gal/min (23 L/min)	15,9 gal/min (60 L/min)	15,9 gal/min (60 L/min)
Débit Max.	188 gal/min (712 L/min)	317 gal/min (1200 L/min)	347 gal/min (1313 L/min)
Taux de viscosité Max.	55 cSt	55 cSt	55 cSt
Température	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)	-30°C(-22°F) à +50°C (122°F)
Type de dépotage	Pompe ou gravité	Pompe ou gravité	Pompe ou gravité
Poids	2,50 kg	5 kg	9,80 kg

VIII) NORMES ET AGRÉMENTS

Le limiteur de remplissage Self Climat subit des tests et essais de fonctionnement réguliers afin de garantir la qualité du produit et d'obtenir des nouveaux certificats de conformité.

A ce jour le Limiteur de remplissage est conforme aux normes suivantes :

Description	USA / CANADA	Europe	Pays-Bas
LDR 2" Model NT	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K-636/03
LDR 3" Model NT	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K-636/03
LDR 3" Model Inox	ANSI/CAN/UL/ULC 2583:2021	EN 13616-1	KIWA BRL-K-636/03

Le système Self Climat pouvant fonctionner indépendamment par gravité ou par groupe de pompage, son utilisation est aujourd'hui préconisée dans la plupart des pays d'Europe et du monde entier.



Self Climat MORVAN
Z.I. Sud – Rue des Epinettes
CS 50152 TORCY
77208 Marne-la-Vallée CEDEX 01
France
Tél. : +33 (0)1 60 05 18 53
export@selfclimat-morvan.com
www.selfclimat.com

Votre distributeur



Siège social :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S au capital de 315 000 €
N° SIREN 698 202 868 00023
NAF 4674B
N° TVA FR 25 698 202 868

Tél : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

CERTIFICATE OF COMPLIANCE

Certificate Number 20170621-MH62282
Report Reference MH62282-20170620
Issue Date 2017-JUNE-21

Issued to: Western Global Holdings
Western House
Broad Lane, Yate
Bristol
BS37 7LB UNITED KINGDOM

**This is to certify that
representative samples of**

TANK ACCESSORIES FOR FLAMMABLE AND
COMBUSTIBLE LIQUIDS

USL - Overfill Prevention Devices, Models N (2", 3", and 4"),
Models NT (2" and 3") and Models INOX (3").

CNL - Overfill Prevention Devices, pressure fill, Class 1,
Models N (2", 3", and 4"), Models NT (2" and 3") and
Models INOX (3"), maximum pressure of 86 psi.

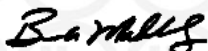
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL2583, Outline of Investigation for Fuel Tank Accessories
CAN/ULC-S661-2010-R2016, Standard for Overfill
Protection Devices for Flammable and Combustible Liquid
Storage Tanks

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>





Technical datasheet No.: SECENV-LDR INOX -19-02-2014

Product code: 308 268

Date: 19/02/2014

Page: 1/1

Version: V2

Designation

A completely safe mechanical safety device preventing any risk of overflow when filling a static tank.

Application

Designed for liquids containing water (e.g.: AdBlue) or highly corrosive liquids with which only stainless steel is compatible.

Operation

- ✓ A single automatic closing level, N1
- ✓ At level N1 and once the filling process has stopped, drainage of residual liquid remaining upstream of the device is permitted
- ✓ A dip tube must be fitted under the LDR to prevent turbulence or foam forming (risk of accidental closure)

+ Product

- ✓ Delivered ready-to-install: fits on the filler tube inside the tank
- ✓ Provides 100% complete and automatic closure
- ✓ Product entirely made of metal (no gasket)
- ✓ Requires no maintenance or adjustment
- ✓ Operates for gravity discharge or pumping
- ✓ Individually bench tested before obtaining a serial number

Characteristics & standards

- ✓ Suitable for use in group IIB potentially explosive atmospheres
- ✓ ATEX certified CE0080  marking II 1 G c IIB T6
- ✓ In compliance with Directive 94/9/EC
- ✓ In compliance with harmonised standards:
 - NF EN 13463-5: 2003
 - NF EN 13616: 2004 - category A2 - steam-tightness: no
- ✓ Conforms to standard NF EN 13463-1: 2001 (Equipment conformity is not affected by the substantial modifications to NF EN 13463-1: 2009)
- ✓ Conforms to Dutch standard KIWA BRL – K 636
- ✓ Conforms to Belgian standard Vlare II

Composition

Supplied with fitting instructions and aluminium identification plate

Compatibility

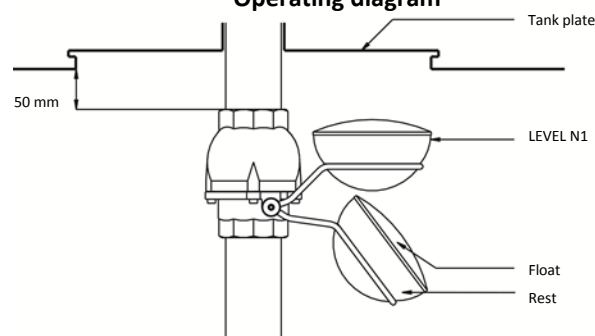
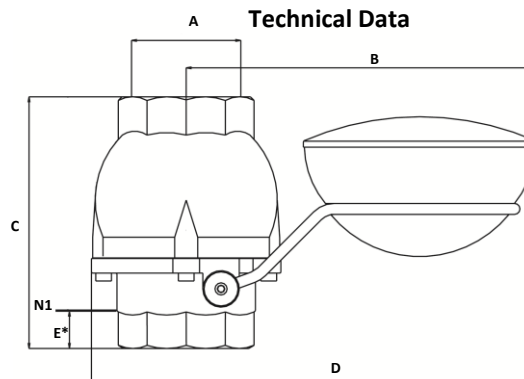
Before installing check the compatibility between the LDR and the nature of the liquid stored in the tank, characteristics determining the type of device to be installed. Compatibility recommendations given by Self Climat are for information only and can in no circumstances be used contractually.

Warranty

12 months provided fitting and operating instructions are observed.



NF EN 13616

Operating diagram**Technical Data**

Reference	308 268
Dimension	Type DN 80 INOX
A (mm)	Dia. 80/90 mm
B (mm)	322
C (mm)	207
D (mm)	400
E* (mm)	30
Construction	Type DN 80 INOX
Body	316 grade stainless steel
Float	316 L grade stainless steel
Fastenings and other parts	Stainless steel
Operating	Type DN 80 INOX
Connection	3" F/F GAS*
Max. pressure	8 bars
Min. flow	3.6 m³/h
Max. flow	60 m³/h
Max. viscosity rating	55 cSt
Temperature	-25°C to +60°C
Type of discharge	Pump or gravity
Weight	9.80 kg

Technical datasheet No.: SECENV-LDR-19-02-2014

Product code: 308 278 / 308 276 / 308 274

Date: 19/02/2014

Page: 1/1

Version: V2

Designation

A completely safe mechanical safety device preventing any risk of overflow when filling a static tank

Application

Designed for the following liquid petroleum fuels: Heating oil, diesel fuel, gasoline, lead-free and leaded gasoline.

Operating

- ✓ Complete and automatic closure at level N1 with the possibility of draining the filler hose and pipe (min. draining volume : 150L)
- ✓ Complete and automatic closure at level Nmax without possibility of reopening
- ✓ A dip tube must be fitted under the LDR to prevent turbulence or foam forming (risk of accidental closure)

+ Product

- ✓ Delivered ready-to-install : fits on the filler tube inside the tank
- ✓ Provides 100% complete and automatic closure
- ✓ Product entirely made of metal (no gasket)
- ✓ Requires no maintenance or adjustment
- ✓ Operates for gravity discharge or pumping
- ✓ Individually bench tested before obtaining a serial number
- ✓ An LDR tester for checking operation is available as an option

Characteristics & standards

- ✓ Suitable for use in group IIB potentially explosive atmospheres
- ✓ ATEX certified CE0080  marking II1 G c IIB T6
- ✓ In compliance with Directive 94/9/EC
- ✓ In compliance with harmonised standards:
 - NF EN 13463-5: 2003
 - NF EN 13616: 2004 - Category A2 - Steam-tightness: no
- ✓ Conforms to standard NF EN 13463-1: 2001 (Equipment conformity is not affected by the substantial modifications to NF EN 13463-1: 2009)
- ✓ Conforms to Dutch standard KIWA BRL – K 636
- ✓ Conforms to Belgian standard Vlare II

Composition

Supplied with fitting instructions and aluminium identification plate

Compatibility

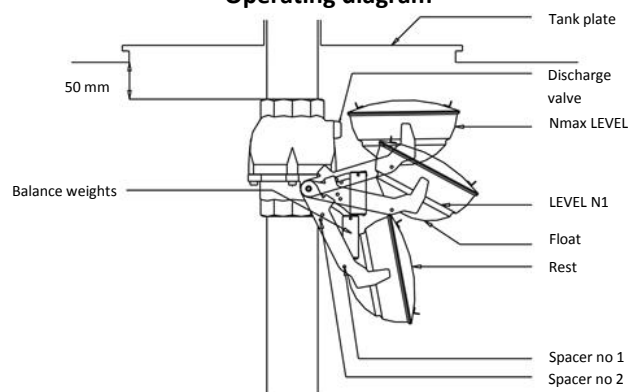
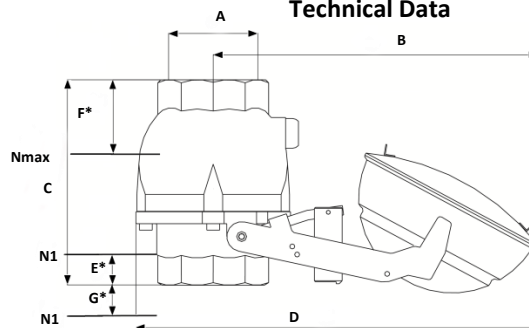
Before installing check the compatibility between the LDR and the nature of the liquid stored in the tank, characteristics determining the type of device to be installed. Compatibility opinions given by Self Climat are for information only and can in no circumstances be used contractually.

Warranty

12 months provided fitting and operating instructions are observed.



NF EN 13616

Operating diagram**Technical Data**

Product code	308 278	308 276	308 274
Dimension	Type DN50	Type DN80	Type DN100
A (mm)	Ø 50/60	Ø 80/90	Ø 102/114
B (mm)	300	330	330
C (mm)	159	207	193
D (mm)	350	406	406
E* (mm)		30	50
F* (mm)	80	65	85
G* (mm)	35		
Construction	Type DN50	Type DN80	Type DN100
Body	Aluminium	Aluminium	Aluminium
Float	DC 04 grade steel	DC 04 grade steel	DC 04 grade steel
Balance weight valve	Brass	Brass	Brass
Balance weight pin	AS 300 grade steel	AS 300 grade steel	AS 300 grade steel
Fastenings and other parts	Stainless steel	Stainless steel	Stainless steel
Operating	Type DN50	Type DN80	Type DN100
Connection	2" F/F GAS*	3" F/F GAS*	4" F/F GAS*
Max. pressure	6 bar	8 bar	8 bar
Min. flow	1.4 m³/h	3.6 m³/h	3.6 m³/h
Max. flow	40 m³/h	60 m³/h	60 m³/h
Max. viscosity rating	55 cSt	55 cSt	55 cSt
Temperature	-25°C to +60°C	-25°C to +60°C	-25°C to +60°C
Type of discharge	Pump or gravity	Pump or gravity	Pump or gravity
Weight	3.50 kg	6.00 kg	6.20 kg

Designation

A completely safe mechanical safety device preventing any risk of overflow when filling a static tank

Application

Designed for aviation fuels, other petroleum products, miscellaneous oil and alcohol.

Operating

- ✓ A single automatic closing level, N1
- ✓ At level N1 and once the filling process has stopped, drainage of residual liquid remaining upstream of the device is permitted
- ✓ A dip tube must be fitted under the LDR to prevent turbulence or foam forming (risk of accidental closure)

+ Product

- ✓ Delivered ready-to-install : fits on the filler tube inside the tank
- ✓ Provides 100% complete and automatic closure
- ✓ Product entirely made of metal (no gasket)
- ✓ Requires no maintenance or adjustment
- ✓ Usable for gravity discharge or pumping.
- ✓ Individually bench tested before obtaining a serial number

Characteristics & standards

- ✓ Suitable for use in group IIB potentially explosive atmospheres
- ✓ ATEX certified CE0080 marking II1 G c IIB T6
- ✓ In compliance with Directive 94/9/EC
- ✓ In compliance with harmonised standards:
 - NF EN 13463-5: 2003
 - NF EN 13616: 2004 - Category A2 - Steam-tightness: no
- ✓ Conforms to standard NF EN 13463-1: 2001 (Equipment conformity is not affected by the substantial modifications to NF EN 13463-1: 2009)
- ✓ Conforms to Dutch standard KIWA BRL – K 636
- ✓ Conforms to Belgian standard Vlare II

Composition

Supplied with fitting instructions and aluminium identification plate

Compatibility

Before installing check the compatibility between the LDR and the nature of the liquid stored in the tank, characteristics determining the type of device to be installed. Compatibility opinions given by Self Climat are for information only and can in no circumstances be used contractually.

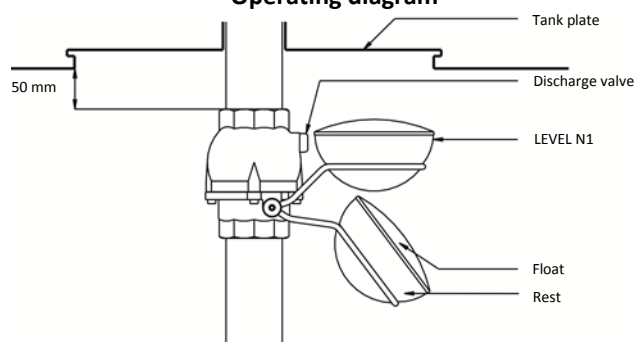
Warranty

12 months provided fitting and operating instructions are observed.

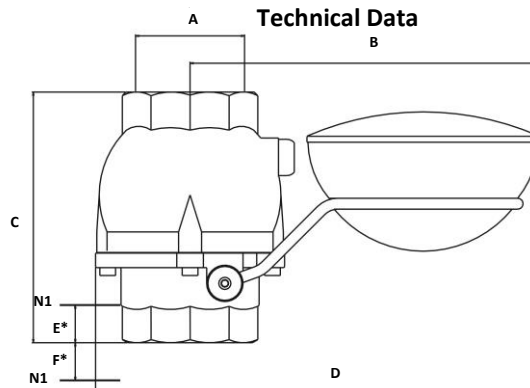


NF EN 13616

Operating diagram



Technical Data



Reference	308 279	308 277
Dimension	Type DN 50 NT	Type DN 80 NT
A (mm)	Ø 50/60	Ø 80/90
B (mm)	245	322
C (mm)	159	207
D (mm)	295	400
E* (mm)		30
F* (mm)	35	
Construction	Type DN 50 NT	Type DN 80 NT
Body	Anodised aluminium	Anodised aluminium
Float	316 L grade stainless steel	316 L grade stainless steel
Fastenings and other parts	Stainless steel	Stainless steel
Operating	Type DN 50 NT	Type DN 80 NT
Connection	2" F/F GAS*	3" F/F GAS*
Max. pressure	6 bar	8 bar
Min. flow	1.4 m³/h	3.6 m³/h
Max. flow	40 m³/h	60 m³/h
Max. viscosity rating	55 cSt	55 cSt
Temperature	-25°C to +60°C	-25°C to +60°C
Type of discharge	Pump or gravity	Pump or gravity
Weight	2.50 kg	5.00 kg

Technical datasheet No.: SECENV-LDR NT-19-02-2014

Product code: 308 279 / 308 277

Date: 19/02/2014

Page: 2/2

Version: V2

Non-exhaustive list of chemical products suitable for use with LDR 200 NT and 323 NT devices.

1 - isopropyl acetate	34 - gasoline C	67 - naphta
2 - ethyl acetate	35 - gasoline E	68 - pentane
3 - butyl acetate	36 - gasoline F	69 - perchlorethylene
4 - ethyl glycol acetate	37 - 92/98 RON gasoline	70 - lamp oil
5 - acetone	38 - turpentine oil	71 - deodorised naphtha
6 - rosolic acid	39 - miscellaneous gasoline	72 - propanol
7 - hexavanadic acid	40 - nitrobenzene	73 - solvesso 150 (white)
8 - acetic acid	41 - ethyl glycol	74 - shellsol A
9 - methylated spirit	42 - exxsol 140/170	75 - shellsol E
10 - methylated alcohol 95°	43 - glycol	76 - shellsol K
11 - alcohol 90°	44 - glycerol	77 - shellsol R
12 - methanol	45 - hexane	78 - shellsol T
13 - ethyl alcohol	46 - hexylene glycol	79 - regenerated solvents
14 - isopropyl alcohol	47 - dust laying oil	80 - used solvents
15 - isobutyl alcohol	48 - light AD oil	81 - naphtha solvent 90/170
16 - normal butylic alcohol	49 - A1 oil	82 - naphtha solvent 90/160
17 - anthracene	50 - ROB 108 linseed oil	83 - total heavy solvent S3
18 - antifreeze	51 - coal tar oil	84 - total heavy solvent S6
19 - benzene	52 - mineral oil	85 - carbon disulphide
20 - benzol	53 - vegetable oil	86 - toluene
21 - black varnish	54 - oil ref. P 223	87 - telura ref. 168
22 - butanol	55 - IPA 91	88 - trichloroethylene
23 - buthyglycol	56 - IPA 99	89 - carbon tetrachloride
24 - dark carbonyl	57 - isopropanol	90 - varsol
25 - light carbonyl	58 - A1 jet	91 - white spirit B.T.A.
26 - benzol chloride	59 - methyl ethyl ketone	92 - ordinary white spirit
27 - coal tar	60 - methyl isobutyl ketone	93 - xylene
28 - diethylene glycol	61 - methyl glycol	
29 - dioctyl phthalate	62 - methanol	
30 - dilutine M5	63 - monopropylene glycol	
31 - solvent ref. 7031	64 - monoethylene glycol	
32 - dutrex ref. 238 FC	65 - M.E.K.	
33 - gasoline A	66 - M.I.B.K.	

**Overfill prevention devices
for hydrocarbons**

- 2" Model N
- 3" Model N
- 4" Model N

FITTING AND OPERATING INSTRUCTIONS
FLAMMABLE AND COMBUSTIBLE LIQUID TANK
ACCESSORY

IMPORTANT INFORMATION -
FOLLOW ALL INSTRUCTIONS



C  **US LISTED**
MH62282

WARNING !

THIS MANUAL SHOULD BE READ CAREFULLY BY ALL PERSONS WHO ARE OR WILL BE RESPONSIBLE FOR THE INSTALLATION OR OPERATION OF THE PRODUCT.

CAUTION !

FOR SAFETY REASONS, THIS DEVICE SHALL ONLY BE ASSEMBLED AND INSTALLED BY QUALIFIED PERSONS AUTHORISED TO WORK ON EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES. THE USE OF NON-QUALIFIED PERSONNEL, OR ANY DEVIATIONS FROM THESE RECOMMENDED PROCEDURES, COULD RESULT IN DAMAGE OR MALFUNCTION.

PLEASE READ AND DIGEST THIS MANUAL BEFORE USING THE APPLIANCE.

CONTENTS

I	Marking	3
II	General specifications	3
III	Operating instructions	4
	3.1 Safety instructions	5
	3.2 Starting up	5
	3.3 Operation	5
IV	Fitting	7
	4.1 Installation of the overfill prevention device	7
	4.2 Maintenance and trouble shooting	8
	4.3 Dismantling	8
V	Special conditions	8
VI	Optional accessories	8
VII	Technical data	10
VIII	Standards and approvals	11

SUPPLIES

On receipt of the delivery, check that the packaging is original and that the equipment is in good condition.

The supply should comprise :

- The Self Climat overfill prevention device
- The manufacturer's plate and two nails in a sachet
- The instruction manual

I) MARKING

The **Self Climat** overfill prevention devices Model N (2", 3", and 4") are constructed according to the following standards :

- **UL2583**, Outline of Investigation for Fuel tank Accessories.
- **CAN/ULC-S661-10 (R2016)**, Standard for Overfill Protection Devices for Flammable and Combustible Liquid Storage Tanks.

OPD 2" MODEL N	OPD 3" MODEL N	OPD 4" MODEL N
Automatic overfill shutoff 2" Model N Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK FLAMMABLE AND COMBUSTIBLE LIQUID TANK ACCESSORY For Automotive Similar Fuels Rated Flow: 187 gal/min Max pressure: 86 psi (CAN), 50 psi (USA)  MH62282 CAN/ULC-S661-10, Class 1 For Installation by Qualified Persons – Follow All Instructions	Automatic overfill shutoff 3" Model N Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK FLAMMABLE AND COMBUSTIBLE LIQUID TANK ACCESSORY For Automotive Similar Fuels Rated Flow: 360 gal/min Max pressure: 86 psi (CAN), 50 psi (USA)  MH62282 CAN/ULC-S661-10, Class 1 For Installation by Qualified Persons – Follow All Instructions	Automatic overfill shutoff 4" Model N Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK FLAMMABLE AND COMBUSTIBLE LIQUID TANK ACCESSORY For Automotive Similar Fuels Rated Flow: 360 gal/min Max pressure: 86 psi (CAN), 50 psi (USA)  MH62282 CAN/ULC-S661-10, Class 1 For Installation by Qualified Persons – Follow All Instructions

II) GENERAL SPECIFICATIONS

The **Self Climat** overfill prevention device is a mechanical safety device placed on the filling tube inside the liquid storage tank.

The purpose of this «completely safe overflow prevention device» is to reduce environmental risks, water pollution risks and all fire or explosion risks that could arise while filling liquid petroleum fuel storage tanks.

It is essential to verify the compatibility between the overfill prevention device and the liquid stored in the tank, as the characteristics of the liquid determine the model or type of overfill prevention device to be installed.

The **Self Climat** technical dept has all the information necessary to advise installing technicians in their choices.

OVERFILL PREVENTION DEVICE								
Description	Rated Flow	DN	Max pressure		Reference	Intended use	Working temperature*	Max fluid temperature
			CAN	USA				
OPD 2" Model N	187 gal/min	50	86 psi	50 psi	308 295	Heating oil, diesel fuel, gasoline, lead-free gasoline, leaded gasoline	-40°C to +40°C	+80°C
OPD 3" Model N	360 gal/min	80	86 psi	50 psi	308 296		-40°C to +40°C	+80°C
OPD 4" Model N	360 gal/min	100	86 psi	50 psi	308 297		-40°C to +40°C	+80°C

* The temperature of the equipment depends on the temperature of the fluid

These products are intended for automotive similar fuels and for use with storage tanks or fueling systems containing automotive fuels under the expected use conditions and exposures that have similar chemical, physical and material compatibility properties as represented in these requirements. The use fuels are intended to be formulated in accordance with 40 CFR Part 80 "Regulation of Fuels and Fuels Additives" and meet the following ASTM Fuel Specifications and blend limitations :

- 1) ASTM D975, Standard Specification for Diesel Fuels Oils, with biodiesel blend up to a maximum of 5 percent (B5) ;
- 2) ASTM D7467, Standard Specification for Low Blend Biodiesel, with biodiesel blends between 6 to 20 percent (B6 to B20) ;
- 3) ASTM D4814, Standard Specification for Automotive Spark-Ignition Engine Fuel, gasoline or oxygenated gasoline, with limited ethanol blends up to a maximum of 10 percent (E10) ;
- 4) ASTM D5798, Standard Specification for Fuel Ethanol Blends for Automotive Spark-Ignition Engines, with high gasoline/ethanol blends in the (E51 – E83) range ; and
- 5) Mid-range Ethanol Blends (E11 to E50) using variable mixtures of ASTM D4814, Low Blend Ethanol and ASTM D5798, High Blend Ethanol.

III) OPERATING INSTRUCTIONS

3.1 / Safety instructions

Any modification to the appliance may invalidate its certification. Consult the certificates and the documents relative to the fittings to the appliance in order to check on the temperature class and explosion group. The person doing the work should be authorized for ATEX work to prevent the deterioration of the mode of protection of the equipment certified.

3.2 / Starting up

Installation and connection can only be done by qualified personnel.

The corresponding UL and ULC standards and national regulations covering the safety of appliances, as well as general rules accepted in technical field, must be followed.

3.3 / Operation

Introduction

The Self Climat overfill prevention device allows the tank it is fitted to, to be filled to a predetermined level L1; at this level it provides automatic and complete closing.

At this stage, it allows reopening for draining the hose and the filler pipe if necessary without risk of overflowing (minimum drain volume : 150 litres).

Finally, it provides automatic and complete closing, without any possibility of reopening, at a predetermined level Lmax.

The Self Climat overfill prevention device can equip gravity filled or pumped installations for Category 2 hydrocarbons.

Detailed operation

OPERATING PRINCIPLE OF THE SELF CLIMAT COUNTERWEIGHT OVERFILL PREVENTION DEVICE

- The float is in the bottom position.
- The piston is in the top position (fully open).
- The drain ports are completely open.

1) THE CLOSING PROCESS BEFORE THE L1 LEVEL

- The float starts to rise progressively under the effect of the hydraulic pressure.
- The 2 counterweights are moved by spacer N°1 of the float carrier.
- The piston partially closes the drain ports.
- The float continues to rise.
- Half way along the stroke the 2 weights separate from spacer N°1 and are moved by spacer N°2 of the float carrier.
- The weights finish rising under the effect of the hydraulic pressure and move the float with them.
- The drain ports are closed.
- The piston is in the fully closed position under the effect of hydraulic pressure.

2) AT THIS POINT THE LEVEL IS REACHED : THE OVERFILL PREVENTION DEVICE IS FULLY CLOSED.

3) THE FLOAT IS KEPT SUBMERGED AT THE L1 LEVEL

4) CLOSE THE LORRY VALVE AND PROCEED TO THE USUAL AIR INLET

5) DRAINING THE HOSE

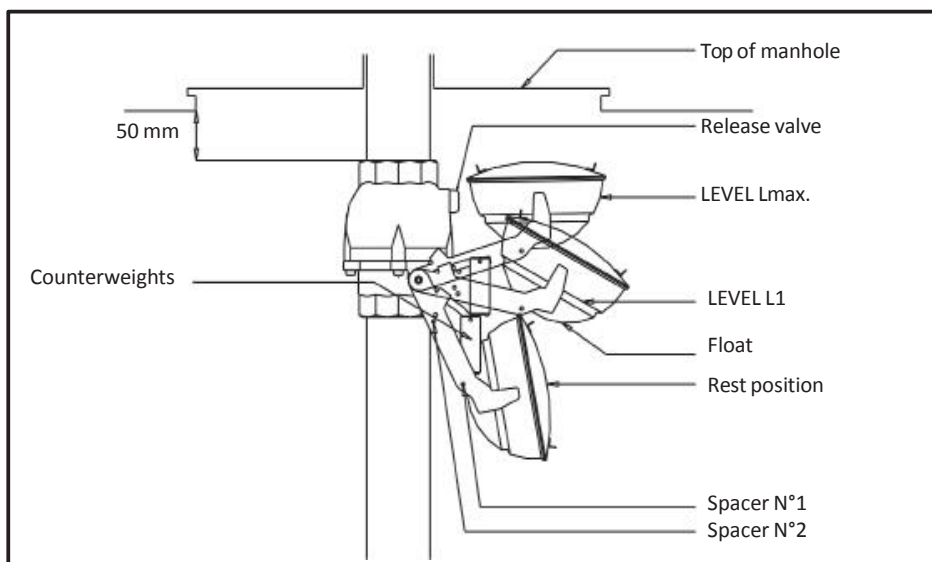
After closing the lorry valve and proceeding to the additional air inlet, the progressive elimination of the residual pressure on the piston is achieved via :

- the escape holes in the piston chamber casing.
- the opening of release valve.

To this progressive decompression, is added the weight of the two counterweights applied to spacer N°2 of the float carrier which accelerates the partial reopening of the piston and thus allows the hose to drain completely.

6) CLOSURE AT LEVEL Lmax

Accidental pouring - excessive hose emptying - failure to observe the flow volumes laid down by the standard in force. In this case the submerged float continues its stroke, moving the two weights with spacer N°2 of the float carrier. The piston once again provides complete closure.



IV) FITTING

4.1 / Installation of the overfill prevention device

IMPORTANT : Protect the Overfill Prevention Device against impurities such as sand during fitting. Care must be taken to prevent any damage, blockage and dysfunction to the OPD!

1 : We recommend positioning the overfill prevention device on the longitudinal axis of the tank. Apply a suitable thread sealant on the pipe thread during installation of the OPD. The thread sealant must be resistant to the liquid stored inside the tank. Make sure there is no leakage or sealant residue inside the OPD in order to avoid any damage, dysfunction or blockage during its operation !

2 : Mount the overfill prevention device on the pipe sleeve under the manhole plate, placing the float under the tester. The 50 mm minimum distance between the top of the overfill prevention device and the tank generator must be respected in all circumstances (Figure 2).

3 : Connect the pipe (position 2/Figure 1) to the ball valve :

- measure distance X between the manhole ring (position 1/Figure 1) and the tank bottom.
- shorten the pipe to leave a space of 70 mm between the bottom of the pipe and the tank bottom.
- stand the assembly upright, lift the float and release it to make sure it works freely.

4 : To confirm the earthing of the overfill prevention device when fitting it in the tank, check that the potentials of the manhole pipe sleeve and the pipe situated at the bottom of the overfill prevention device are the same. A test of electric continuity must be carried out.

5 : Replace the manhole plate after fitting the filler pipe and check that the float cannot rub against the internal pipes.

6 : Check the diameter of the tank vent. Its cross-section should be at least equal to a quarter of the cross-section of the filler pipe.

7 : Fit the manufacturer's plate in the filler pipe.

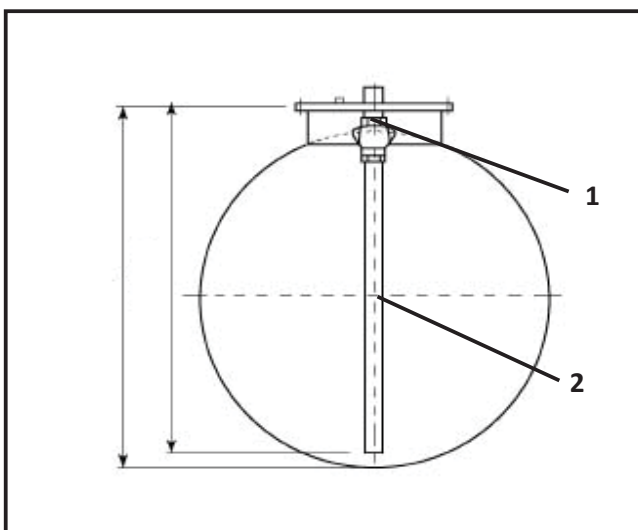


Figure 1

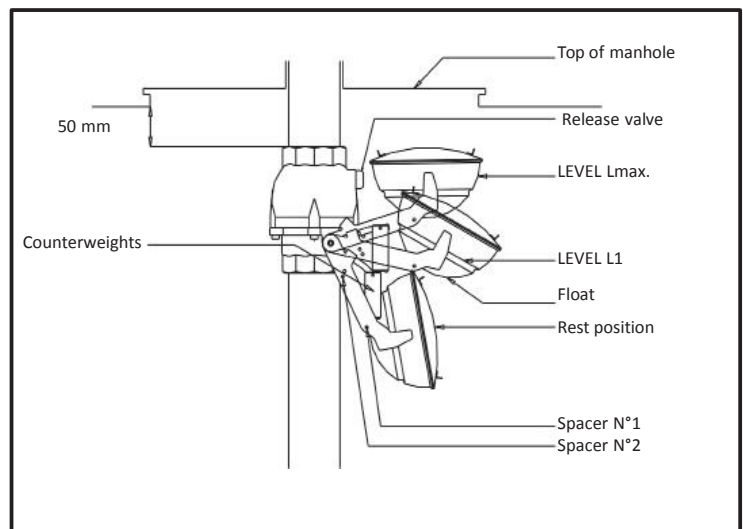


Figure 2

Caution: Do not make any pressure test of tank with overfill prevention device installed.

4.2 / Maintenance and trouble shooting

The operations that can be done by user are limited to installation and connecting up. Any dismantling, repair or modification to the overfill prevention device automatically cancels the manufacturer's warranty. Consequently, this work can only be done by the «Self Climat» company after return of the appliance to the factory.

The overfill prevention devices are not intended for extended storage in excessive temperatures and rough handling (drops, impacts, crushing, dragging, etc.) during transit. This may cause damage or malfunction during use. Overfill prevention devices must be stored in their original packaging, in clean, dry and well ventilated area. Products with obvious visible damage should not be placed into service and should be immediately returned to:

Self Climat
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

Any maintenance must be carried out according to standards in force in the country in use covering means of exploitation in potentially explosive zone. The national regulations must be followed. Any operation must be carried out by qualified staff.

4.3 / Dismantling

The overfill prevention device can only be dismantled in the event of malfunctioning or replacement. It can only be dismantled by personnel authorized to work on equipment for use in explosive atmospheres.

V) SPECIAL CONDITIONS

Self Climat automatic overfill prevention devices are guaranteed for one year from the invoice date against manufacturing faults accepted by our factory.

Our overfill prevention devices cannot be modified in any way without causing a loss warranty.

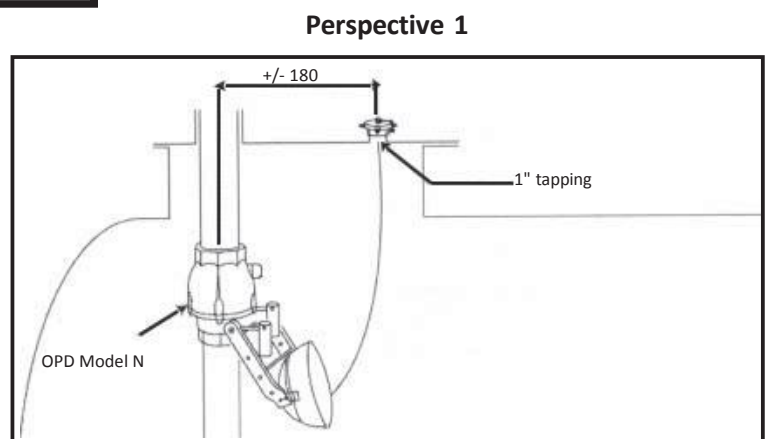
As we do not install the equipment ourselves no claim whatsoever for indemnity will be accepted whether for direct or indirect causes.

VI) OPTIONAL ACCESSORIES

1) OPD cable tester: 308 267

Composition

- Stainless steel cable Ø 1 mm, 2 m length. At one end a traction ring and at the other a cable clamp.
- Brass union Ø G1" F, fitted with a cover on a chain.



Tester in the rest position - fitted on the float

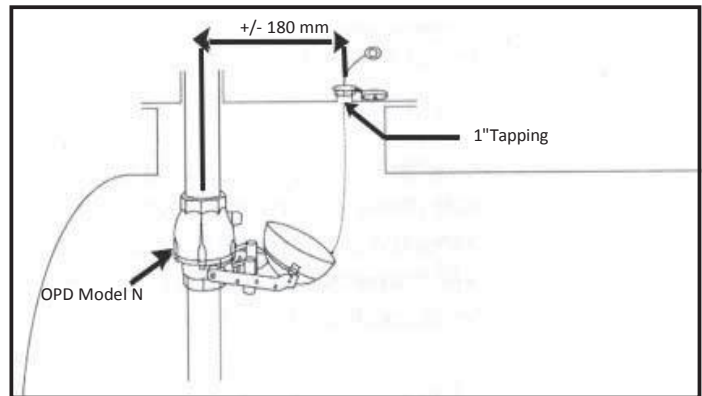
Test method

A means of manually testing the correct operation of the float valve.

Pull the cable progressively, using the ring, to bring the float to its top position.

Lower the float slowly to its rest position. Repeat this operation several times to make sure that nothing prevents the float moving freely throughout its travel.

Perspective 2



Tester in the test position - fitted on a float

It is essential to ensure that the tester orifice is always on the manhole plate and not on the tank.

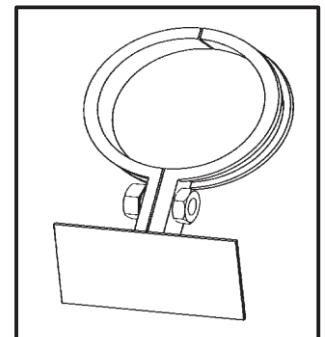
Procedure

When the tester is installed, it is essential to check its operation according to the procedure described in Test Method before filling the tank for the first time. This enables the correct installation of the overfill prevention device to be confirmed.

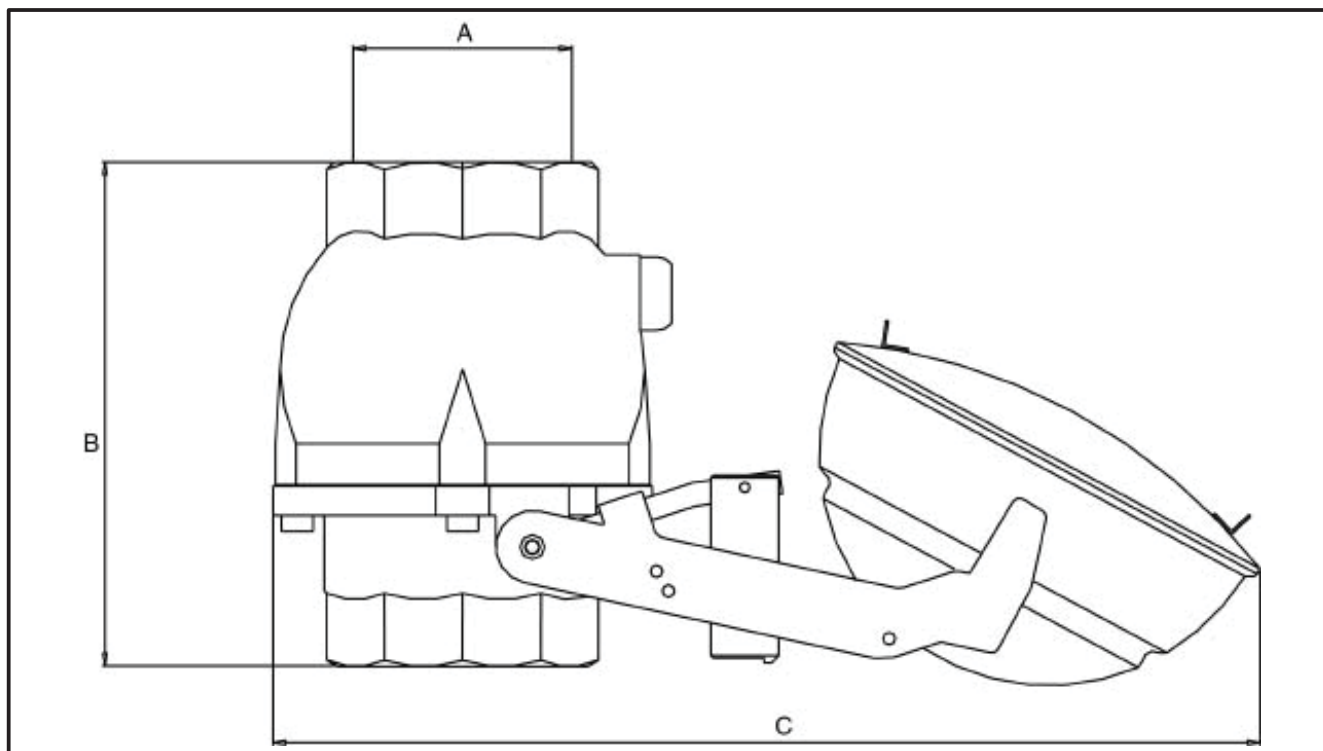
Once the tester is installed, this check must be performed at least once a year.

2) Support clamp

Description	Reference
Support clamp 50/60	308 242
Support clamp 80/90	308 243



VII) TECHNICAL DATA



Reference	308 295	308 296	308 297
Dimension	2" Model N	3" Model N	4" Model N
A	Ø50/60	Ø80/90	Ø102/114
B	159	207	193
C	350	406	406
Construction	2" Model N	3" Model N	4" Model N
Body	Aluminium	Aluminium	Aluminium
Float	DC 04 Steel	DC 04 Steel	DC 04 Steel
Counterweight, valve	Brass	Brass	Brass
Counterweight rod	AS300 Steel	AS300 Steel	AS300 Steel
Fastenings and other parts	Stainless steel	Stainless steel	Stainless steel
Operating	2" Model N	3" Model N	4" Model N
Connection	G2" BSP F/F	G3" BSP F/F	G4" BSP F/F
Min. Pressure	2,2 psi	2,2 psi	2,2 psi
Max. Pressure	86 psi (CAN) or 50 psi (USA)	86 psi (CAN) or 50 psi (USA)	86 psi (CAN) or 50 psi (USA)
Min. Flow	6,2 gal/min	15,9 gal/min	15,9 gal/min
Max. Flow	187 gal/min	360 gal/min	360 gal/min
Max. Viscosity rating	55 cSt	55 cSt	55 cSt
Temperature	-40°C to +40°C	-40°C to +40°C	-40°C to +40°C
Type of transfer	Pump or gravity	Pump or gravity	Pump or gravity
Weight	3,50 kg	6,00 kg	6,20 kg

VIII) STANDARDS AND APPROVALS

The Self Climat overfill prevention device is subject to regular operating tests in order to guarantee the quality of the product and obtain new certificates of conformity.

To date the overfill prevention device comply with the following standards :

Description	Reference	USA	Canada	Europe	The Netherlands	Belgium
OPD 2" Model N	308 295	UL2583	CAN/ULC-S661-10 (R2016)	EN 13616	KIWA BRL-K-636/03	Vlarem II
OPD 3" Model N	308 296	UL2583	CAN/ULC-S661-10 (R2016)	EN 13616	KIWA BRL-K-636/03	Vlarem II
OPD 4" Model N	308 297	UL2583	CAN/ULC-S661-10 (R2016)	EN 13616	KIWA BRL-K-636/03	Vlarem II

As the Self Climat system can operate by gravity and with pumps, its use is now recommended in most countries in Europe and worldwide.





Molendreef 43 B-9300 AALST
Tel : 053/78.34.85 Fax: 053/70.88.62
info@corcon.be www.corcon.be

Prototypekeur certificaat nr. CP1213/3000-HCC001

AANVRAGER
SelfClimat Morvan
Z.I. Sud - Rue des Epinettes
CS 50152 Torcy
77208 Marne La Vallée Cedex 1
Frankrijk

LEVERANCIER
SelfClimat Morvan
Z.I. Sud - Rue des Epinettes
CS 50152 Torcy
77208 Marne La Vallée Cedex 1
Frankrijk

TYPE

Automatisch beveiligingssysteem tegen overvulling :
mechanische klep met stalen testkoord

KEURINGSMODALITEITEN

Viarem II (21-03-12) Hoofdstuk 5.17. Opslag van gevaarlijke producten
Bijlage 5.17.7. Overvulbeveiliging

TOEPASSINGSGBIEDEN

Viarem II (21-03-12)

Hoofdstuk 5.17

Opslag van gevaarlijke vloeistoffen in ondergrondse en bovengrondse houders

CERTIFICAATBEGREINZING

Opslag van vloeibare brandstoffen : P1-, P2- en P3-producten
(type DN 50, DN 80 en DN 100)

Opslag van andere dan vloeibare brandstoffen
(type DN 50 NT, DN 80 NT en DN 80 inox)

Temperatuurbegrenzing tussen - 25 en + 60 °C
Viscositeit maximaal 55 mm²/s

**DIT CERTIFICAAT IS SLECHTS GELDIG
WANNEER VERGEZELD VAN HET CONFORMITEITSATTEST
VAN DE CONSTRUCTEUR
BIJHORENDE BLADZIJDEN 2 tot 12 LIGGEN
TER INZAGE BIJ DE BOUWER**

Certificaat geldig vanaf 09/12/2013 t.e.m. 08/12/2018

Francine Van Moorter

Milieudeskundige Erkenning 2002/HCC001
Corrosiedeskundige Erkenning 2002/KCC001

CERTIFICATE OF COMPLIANCE

Certificate Number 20170621-MH62262
Report Reference MH62262-20170620
Issue Date 2017-JUNE-21

Issued to: Western Global Holdings
Western House
Broad Lane, Yale
Bristol
BS37 7LB UNITED KINGDOM

This is to certify that
representative samples of

TANK ACCESSORIES FOR FLAMMABLE AND
COMBUSTIBLE LIQUIDS

USL - Overfill Prevention Devices, Models N (2", 3", and 4"),
Models NT (2" and 3") and Models INOX (3")

CNL - Overfill Prevention Devices, pressure fill, Class 1,
Models N (2", 3", and 4"), Models NT (2" and 3") and
Models INOX (3"), maximum pressure of 86 psi.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL2583, Outline of Investigation for Fuel Tank Accessories
CAN/ULC-S661-2010-R2016, Standard for Overfill
Protection Devices for Flammable and Combustible Liquid
Storage Tanks

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product

Bruce Mahoney, Director North American Certification Program

UL LLC
Any information and documentation involving UL that contains any provision or feature of UL or any subsidiary business of UL, for whatever purpose, shall be used only for the purposes for which it was provided and shall not be used for any other purpose without the prior written consent of UL.



Head office :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S with Capital of €315 000
SIREN registration no.698 202 868 00023
NAF Code 4674B
VAT No. FR 25 698 202 868

Tel : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com

**Overfill prevention devices
for chemical industry**

- 2" Model NT
- 3" Model NT
- 3" Model INOX

**FITTING AND OPERATING INSTRUCTIONS
FLAMMABLE AND COMBUSTIBLE LIQUID TANK
ACCESSORY**

**IMPORTANT INFORMATION -
FOLLOW ALL INSTRUCTIONS**



OPD Model NT



OPD Model INOX

cUL US LISTED
MH62282

WARNING !

THIS MANUAL SHOULD BE READ CAREFULLY BY ALL PERSONS WHO ARE OR WILL BE RESPONSIBLE FOR THE INSTALLATION OR OPERATION OF THE PRODUCT.

CAUTION !

FOR SAFETY REASONS, THIS DEVICE SHALL ONLY BE ASSEMBLED AND INSTALLED BY QUALIFIED PERSONS AUTHORISED TO WORK ON EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES. THE USE OF NON-QUALIFIED PERSONNEL, OR ANY DEVIATIONS FROM THIS RECOMMENDED PROCEDURES, COULD RESULT IN DAMAGE OR MALFUNCTION.

PLEASE READ AND DIGEST THIS MANUAL BEFORE USING THE APPLIANCE.

CONTENTS

I	Marking	3
II	General specifications	3
	2.1 Description	3
	2.2 Non-exhaustive list of chemicals that can be used with overfill prevention devices Model NT (2" and 3") and Model INOX (3")	4
III	Operating instructions	4
	3.1 Safety instructions	5
	3.2 Starting up	5
	3.3 Operation	5
IV	Fitting	7
	4.1 Installation of the overfill prevention device	7
	4.2 Maintenance and trouble shooting	8
	4.3 Dismantling	8
V	Special conditions	8
VI	Optional accessories	8
VII	Technical data	10
VIII	Standards and approvals	11

SUPPLIES

On receipt of the delivery, check that the packaging is original and that the equipment is in good condition.
The supply should comprise :

- The Self Climat overfill prevention device
- The manufacturer's plate and two nails in a sachet
- The instruction manual

I) MARKING

The **Self Climat** overfill prevention devices Model NT (2" and 3") and Model INOX (3") are constructed according to the following standards :

- **UL2583**, Outline of Investigation for Fuel tank Accessories.
- **CAN/ULC-S661-10 (R2016)**, Standard for Overfill Protection Devices for Flammable and Combustible Liquid Storage Tanks.

OPD 2" MODEL NT	OPD 3" MODEL NT	OPD 3" MODEL INOX
Automatic overfill shutoff 2" Model NT Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK FLAMMABLE AND COMBUSTIBLE LIQUID TANK ACCESSORY For Automotive Similar Fuels Rated Flow: 188 gal/min Max pressure: 86 psi (CAN), 50 psi (USA)  US LISTED MH62282 CAN/ULC-S661-10, Class 1 For Installation by Qualified Persons – Follow All Instructions	Automatic overfill shutoff 3" Model NT Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK FLAMMABLE AND COMBUSTIBLE LIQUID TANK ACCESSORY For Automotive Similar Fuels Rated Flow: 317 gal/min Max pressure: 86 psi (CAN), 50 psi (USA)  US LISTED MH62282 CAN/ULC-S661-10, Class 1 For Installation by Qualified Persons – Follow All Instructions	Automatic overfill shutoff 3" Model INOX Manufacturer: Self Climat ® FRANCE Supplier: Western Global ® UK FLAMMABLE AND COMBUSTIBLE LIQUID TANK ACCESSORY For Automotive Similar Fuels Rated Flow: 347 gal/min Max pressure: 86 psi (CAN), 50 psi (USA)  US LISTED MH62282 CAN/ULC-S661-10, Class 1 For Installation by Qualified Persons – Follow All Instructions

II) GENERAL SPECIFICATIONS

2.1 / Description

The **Self Climat** overfill prevention device is a mechanical safety device placed on the filling tube inside the liquid storage tank.

The purpose of this «completely safe overflow prevention device» is to reduce environmental risks, water pollution risks and all fire or explosion risks that could arise while filling liquid petroleum fuel storage tanks.

It is essential to verify the compatibility between the overfill prevention device and the liquid stored in the tank, as the characteristics of the liquid determine the model or type of overfill prevention device to be installed.

The **Self Climat** technical dept has all the information necessary to advise installing technicians in their choices.

OVERFILL PREVENTION DEVICE							
Description	Rated Flow	DN	Max pressure		Reference	Working temperature*	Max fluid temperature
			CAN	USA			
OPD 2" Model NT	188 gal/min	50	86 psi	50 psi	308 298	-40°C to +40°C	+80°C
OPD 3" Model NT	317 gal/min	80	86 psi	50 psi	308 299	-40°C to +40°C	+80°C
OPD 3" Model INOX	347 gal/min	80	86 psi	50 psi	308 300	-40°C to +40°C	+80°C

* The temperature of the equipment depends on the temperature of the fluid

These products are intended for automotive similar fuels and for use with storage tanks or fueling systems containing automotive fuels under the expected use conditions and exposures that have similar chemical, physical and material compatibility properties as represented in these requirements. The use fuels are intended to be formulated in accordance with 40 CFR Part 80 "Regulation of Fuels and Fuels Additives" and meet the following ASTM Fuel Specifications and blend limitations :

- 1) ASTM D975, Standard Specification for Diesel Fuels Oils, with biodiesel blend up to a maximum of 5 percent (B5) ;
- 2) ASTM D7467, Standard Specification for Low Blend Biodiesel, with biodiesel blends between 6 to 20 percent (B6 to B20) ;
- 3) ASTM D4814, Standard Specification for Automotive Spark-Ignition Engine Fuel, gasoline or oxygenated gasoline, with limited ethanol blends up to a maximum of 10 percent (E10) ;
- 4) ASTM D5798, Standard Specification for Fuel Ethanol Blends for Automotive Spark-Ignition Engines, with high gasoline/ethanol blends in the (E51 – E83) range ; and
- 5) Mid-range Ethanol Blends (E11 to E50) using variable mixtures of ASTM D4814, Low Blend Ethanol and ASTM D5798, High Blend Ethanol.

2.2 / Non exhaustive list of chemicals that can be used with overfill prevention devices Model NT (2" and 3") and Model INOX (3")

1 - A1 oil	26 - dust-laying oil	51 - lamp oil	76 - propanol
2 - acetic acid	27 - ethyl acetate	52 - light AD oil	77 - Ref .7031 solvent
3 - acetone	28 - ethanol E85	53 - light carbonyl	78 - Ref. 168 telura
4 - alcohol 90°	29 - ethyl alcohol	54 - M.E.K	79 - Ref. 238 FC dutrex
5 - anthracene	30 - ethyl glycol	55 - M.I.B.K	80 - regenerated solvents
6 - antifreeze	31 - ethyl glycol acetate	56 - methanol	81 - ROB 108 linseed oil
7 - avgas (aviation gasoline)	32 - exsol 140/170	57 - methyl ethyl ketone	82 - rosolic acid
8 - aviation fuel	33 - gasoline 92/98	58 - methyl glycol	83 - S6 total heavy solvent
9 - B.T.A. white spirit	34 - gasoline A	59 - methyl isobutyl ketone	84 - shellsol A
10 - benzene	35 - gasoline C	60 - methylated alcohol 95%	85 - shellsol E
11 - benzol	36 - gasoline E	61 - methylated spirit	86 - shellsol K
12 - benzol chloride	37 - gasoline F	62 - mineral oils	87 - shellsol R
13 - black varnish	38 - glycerine	63 - miscellaneous gasoline	88 - shellsol T
14 - butanol	39 - glycol	64 - monoethylene glycol	89 - solvesso 150 (white)
15 - butylglycol	40 - hexane	65 - monopropylene glycol	90 - toluene
16 - butyl acetate	41 - hexavanadic acid	66 - naphta 90/160 solvent	91 - total heavy solvent
17 - carbon disulphide	42 - hexylene glycol	67 - naphta	92 - trichlorethylene
18 - carbon tetrachloride	43 - IPA 91	68 - naphta 90/170 solvent	93 - turpentine
19 - coal tar	44 - IPA 99	69 - naphta-kerosene	94 - unleaded kerosene
20 - coal tar oil	45 - isobutylic alcohol	70 - nitrobenzine	95 - used solvents
21 - dark carbonyl	46 - isopropanol	71 - normal butylic alcohol	96 - varsol
22 - deodorised naphta	47 - isopropylic alcohol	72 - ordinary white spirit	97 - vegetable oils
23 - diethylene glycol	48 - isopropyl acetate	73 - P 223 oil	98 - xylene
24 - dilutine M5	49 - jet A1/ jet fuel	74 - pentane	
25 - dioctylphtalate	50 - kerosene	75 - perchlorethylene	

III) OPERATING INSTRUCTIONS

3.1 / Safety instructions

Any modification to the appliance may invalidate its certification. Consult the certificates and the documents relative to the fittings to the appliance in order to check on the temperature class and explosion group. The person doing the work should be authorized for ATEX work to prevent the deterioration of the mode of protection of the equipment certified.

3.2 / Starting up

Installation and connection can only be done by qualified personnel.

The corresponding UL and ULC standards and national regulations covering the safety of appliances, as well as general rules accepted in technical field, must be followed.

3.3 / Operation

Introduction

The Self Climat overflow prevention device allows the tank it is fitted to, to be filled to a predetermined level L1.

At this closure, a residual flow of liquid upstream of the appliances is authorized once the level is reached and the filling procedure has stopped.

The Self Climat overflow prevention device can equip gravity filled or pumped installations.

Detailed operation

OPERATING PRINCIPLE OF THE SELF CLIMAT OVERFILL PREVENTION DEVICES MODEL NT (2" and 3") AND MODEL INOX (3")

1) OVERFILL PREVENTION DEVICE IN THE REST POSITION

- The float is in the bottom position.
- The piston is in the top position (fully open).
- The drain ports are completely open.

2) THE CLOSING PROCESS BEFORE THE L1 LEVEL

- The progressive rise in the level inside the tank causes the float to rise
- This causes the progressive closure of the piston
- This piston partially closes the drain ports.
- The float continues to rise.
- The drain ports are closed.
- The increasing hydraulic pressure causes the complete closure of the piston.

3) AT THIS POINT THE LEVEL IS REACHED: THE OVERFILL PREVENTION DEVICE IS FULLY CLOSED

- The piston totally closes the drain ports.
- The float is in the top position.

4) CLOSE THE LORRY VALVE AND PROCEED TO THE ADDITIONAL AIR INLET

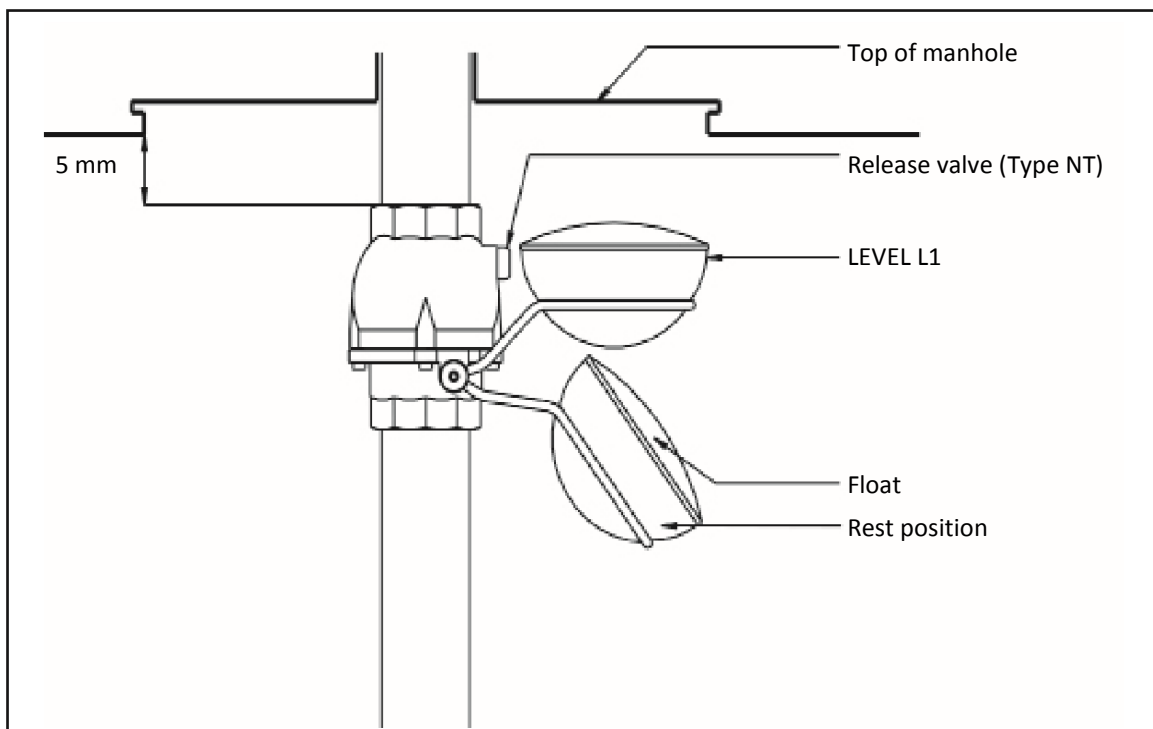
5) RESIDUAL VOLUME

After closing the lorry valve and proceeding to the additional air inlet, the residual pressure on the piston is cancelled out. At this moment :

- The float is kept submerged.
- The piston rises partially.
- The drain ports are partially open.

This partial opening of the drain ports allows any residual liquid upstream of the appliance to flow out.

It is possible to calculate the residual volume accepted, bearing in mind that the difference in height allowed is approximately 20 mm after level L1.



IV) FITTING

4.1 / Installation of the overfill prevention device

IMPORTANT : Protect the Overfill Prevention Device against impurities such as sand during fitting. Care must be taken to prevent any damage, blockage and dysfunction to the OPD!

1 : We recommend positioning the overfill prevention device on the longitudinal axis of the tank. Apply a suitable thread sealant on the pipe thread during installation of the OPD. The thread sealant must be resistant to the liquid stored inside the tank. Make sure there is no leakage or sealant residue inside the OPD in order to avoid any damage, dysfunction or blockage during its operation !

2 : Mount the overfill prevention device on the pipe sleeve under the manhole plate, placing the float under the tester. The 50 mm minimum distance between the top of the overfill prevention device and the tank generator must be respected in all circumstances. (Figure 2)

3 : Connect the pipe (position 2/Figure 1) to the ball valve :

- measure distance X between the manhole ring (position 1/Figure 1) and the tank bottom.
- shorten the pipe to leave a space of 70 mm between the bottom of the pipe and the tank bottom.
- stand the assembly upright, lift the float and release it to make sure it works freely.

4 : To confirm the earthing of the overfill prevention device when fitting it in the tank, check that the potentials of the manhole pipe sleeve and the pipe situated at the bottom of the overfill prevention device are the same. A test of electric continuity must be carried out.

5 : Replace the manhole plate after fitting the filler pipe and check that the float cannot rub against the internal pipes.

6 : Check the diameter of the tank vent. Its cross-section should be at least equal to a quarter of the cross-section of the filler pipe.

7 : Fit the manufacturer's plate in the filler pipe.

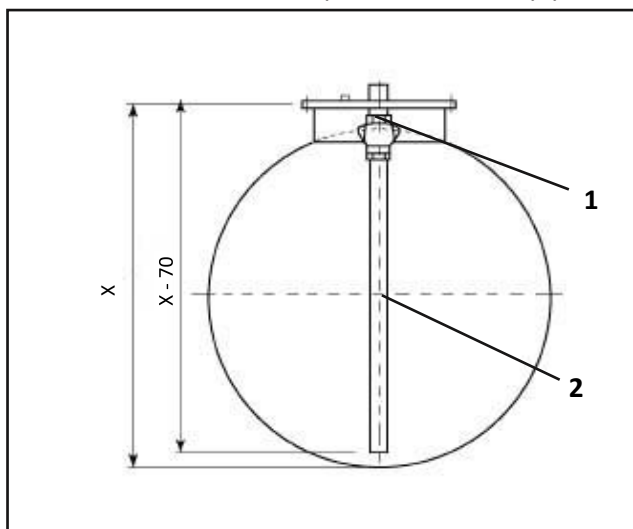


Figure 1

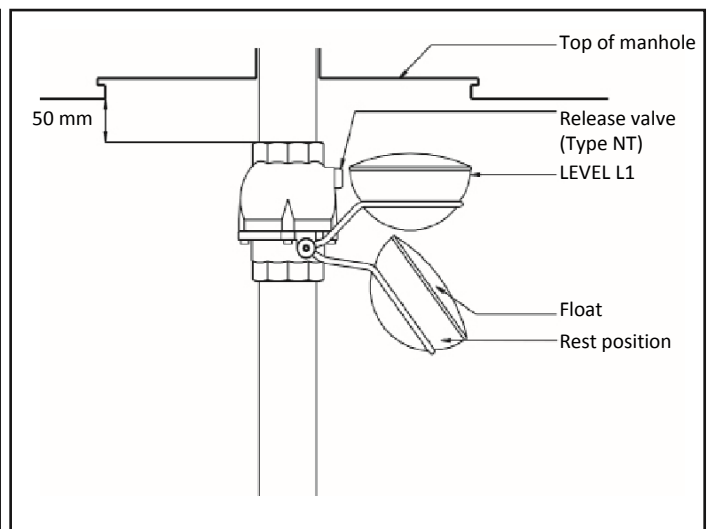


Figure 2

Caution: Do not make any pressure test of tank with overfill prevention device installed.

4.2 / Maintenance and trouble shooting

The operations that can be done by user are limited to installation and connecting up. Any dismantling, repair or modification to the overfill prevention device automatically cancels the manufacturer's warranty. Consequently, this work can only be done by the «Self Climat» company after return of the appliance to the factory.

The overfill prevention devices are not intended for extended storage in excessive temperatures and rough handling (drops, impacts, crushing, dragging, etc.) during transit. This may cause damage or malfunction during use. Overfill prevention devices must be stored in their original packaging, in clean, dry and well ventilated area. Products with obvious visible damage should not be placed into service and should be immediately returned to:

Self Climat
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

Any maintenance must be carried out according to standards in force in the country in use covering means of exploitation in potentially explosive zone. The national regulations must be followed. Any operation must be carried out by qualified staff.

4.3 / Dismantling

The overfill prevention device can only be dismantled in the event of malfunctioning or replacement. It can only be dismantled by personnel authorized to work on equipment for use in explosive atmospheres.

V) SPECIAL CONDITIONS

Self Climat automatic overfill prevention devices are guaranteed for one year from the invoice date against manufacturing faults accepted by our factory.

Our overfill prevention devices cannot be modified in any way without causing a loss warranty.

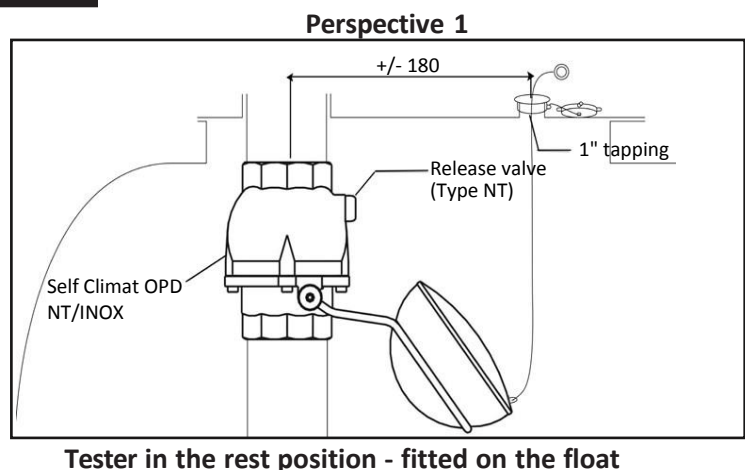
As we do not install the equipment ourselves no claim whatsoever for indemnity will be accepted whether for direct or indirect causes.

VI) OPTIONAL ACCESSORIES

1) OPD cable tester: 308 267

Composition

- Stainless steel cable Ø 1 mm, 2 m length. At one end a traction ring and at the other a cable clamp.
- Brass union Ø G1" F, fitted with a cover on a chain.



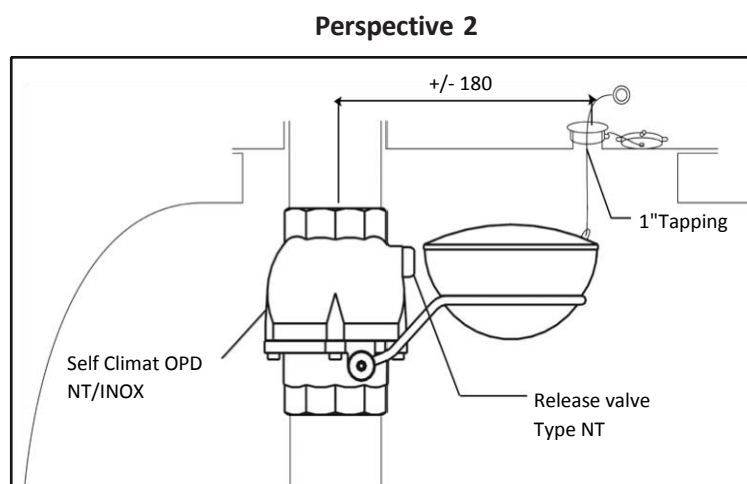
Test method

A means of manually testing the correct operation of the float valve.

Pull the cable progressively, using the ring, to bring the float to its top position.

Lower the float slowly to its rest position.

Repeat this operation several times to make sure that nothing prevents the float moving freely throughout its travel.



TTester in the test position - fitted on a float

It is essential to ensure that the tester orifice is always on the manhole plate and not on the tank.

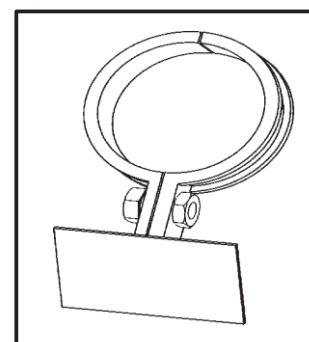
Procedure

When the tester is installed, it is essential to check its operation according to the procedure described in Test Method before filling the tank for the first time. This enables the correct installation of the overfill prevention device to be confirmed.

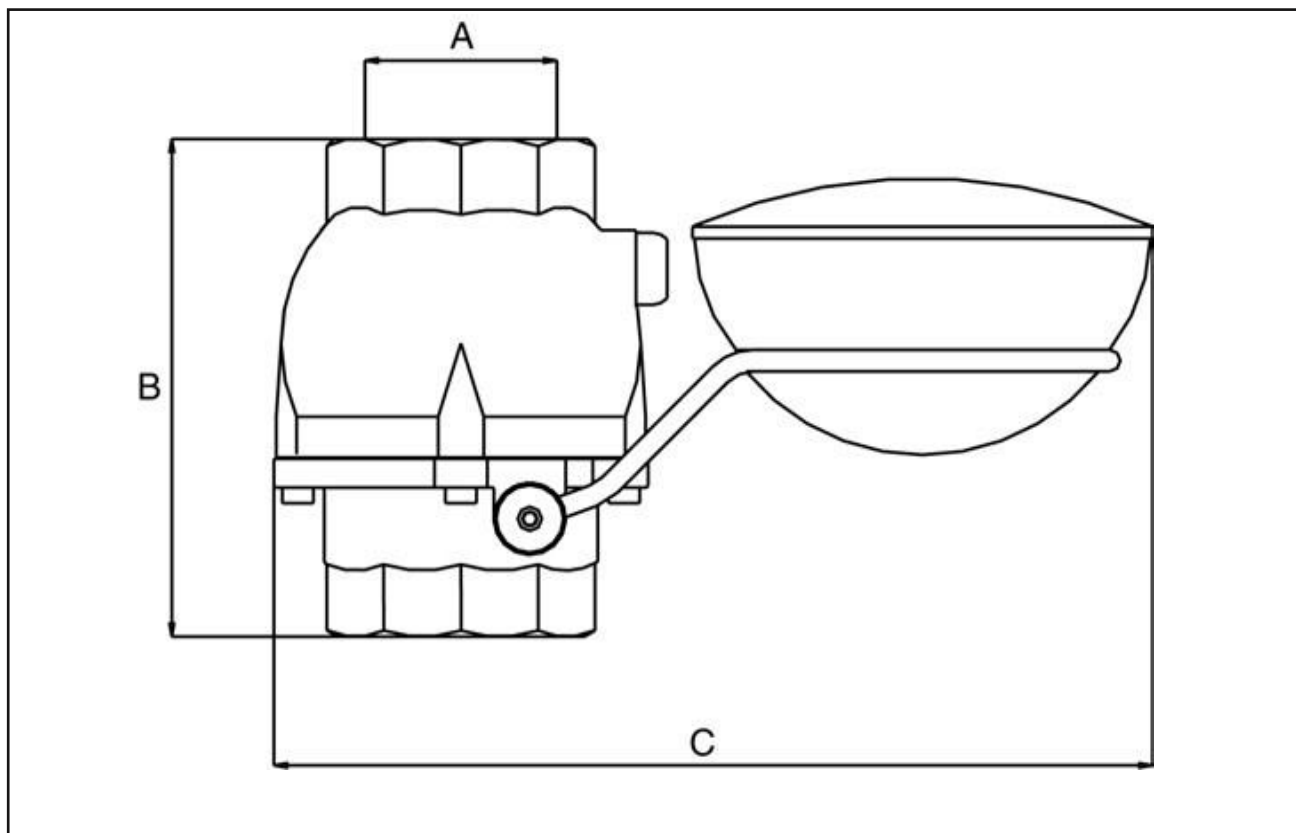
Once the tester is installed, this check must be performed at least once a year.

2) Support clamp

Description	Reference
Support clamp 50/60	308 242
Support clamp 80/90	308 243



VII) TECHNICAL DATA



Reference	308 298	308 299	308 300
Dimension	2" Model NT	3" Model NT	3" Model INOX
A (mm)	Ø50/60	Ø80/90	Ø102/114
B (mm)	159	207	207
C (mm)	295	400	400
Construction	2" Model NT	3" Model NT	3" Model INOX
Body	Anodised Aluminium	Anodised Aluminium	Stainless steel
Float	Stainless steel	Stainless steel	Stainless steel
Fastenings and other parts	Stainless steel	Stainless steel	Stainless steel
Operating	2" Model NT	3" Model NT	3" Model INOX
Connection	G2" BSP F/F	G3" BSP F/F	G4" BSP F/F
Min. Pressure	2,2 psi	2,2 psi	2,2 psi
Max. Pressure	86 psi (CAN) or 50 psi (USA)	86 psi (CAN) or 50 psi (USA)	86 psi (CAN) or 50 psi (USA)
Min. Flow	6,2 gal/min	15,9 gal/min	15,9 gal/min
Max. Flow	188 gal/min	317 gal/min	347 gal/min
Max. Viscosity rating	55 cSt	55 cSt	55 cSt
Temperature	-40°C to +40°C	-40°C to +40°C	-40°C to +40°C
Type of transfer	Pump or gravity	Pump or gravity	Pump or gravity
Weight	2,50 kg	5 kg	9,80 kg

VIII) STANDARDS AND APPROVALS

The Self Climat overfill prevention device is subject to regular operating tests in order to guarantee the quality of the product and obtain new certificates of conformity.

To date the overfill prevention device comply with the following standards :

Description	Reference	USA	Canada	Europe	The Netherlands	Belgium
OPD 2" Model NT	308 298	UL2583	CAN/ULC-S661-10 (R2016)	EN 13616	KIWA BRL-K-636/03	Vlarem II
OPD 3" Model NT	308 299	UL2583	CAN/ULC-S661-10 (R2016)	EN 13616	KIWA BRL-K-636/03	Vlarem II
OPD 3" Model INOX	308 300	UL2583	CAN/ULC-S661-10 (R2016)	EN 13616	KIWA BRL-K-636/03	Vlarem II

As the Self Climat system can operate by gravity and with pumps, its use is now recommended in most countries in Europe and worldwide.





Molendreef 43 B-9300 AALST
Tel : 053/78.34.85 Fax: 053/70.88.62
info@corcon.be www.corcon.be

Prototypekeur certificaat nr. CP1213/3000-HCC001

AANVRAGER
SelfClimat Morvan
Z.I. Sud - Rue des Epinettes
CS 50152 Torcy
77208 Marne La Vallée Cedex 1
Frankrijk

LEVERANCIER:
SelfClimat Morvan
Z.I. Sud - Rue des Epinettes
CS 50152 Torcy
77208 Marne La Vallée Cedex 1
Frankrijk

TYPE

Automatisch beveiligingssysteem tegen overvulling :
mechanische klep met stalen testkoord

KEURINGSMODALITEITEN

Vlaem II (21-03-12) Hoofdstuk 5.17. Opslag van gevaarlijke producten
Bijlage 5.17.7. Overvulbeveiliging

TOEPASSINGSGBIEDEN

Vlaem II (21-03-12)

Hoofdstuk 5.17

Opslag van gevaarlijke vloeistoffen in ondergrondse en bovengrondse houders

CERTIFICAATBEGREINZING

Opslag van vloeibare brandstoffen : P1-, P2- en P3-producten
(type DN 50, DN 80 en DN 100)

Opslag van andere dan vloeibare brandstoffen
(type DN 50 NT, DN 80 NT en DN 80 inox)

Temperatuurbegrenzing tussen - 25 en + 60 °C
Viscositeit maximaal 55 mm²/s

DIT CERTIFICAAT IS SLECHTS GELDIG
WANNEER VERGEZELD VAN HET CONFORMITEITSATTEST
VAN DE CONSTRUCTEUR
BIJHORENDE BLADZIJDEN 2 tot 12 LIGGEN
TER INZAGE BIJ DE BOUWER

Certificaat geldig vanaf 09/12/2013 t.e.m. 08/12/2018

Francine Van Moorter

Milieudeskundige Erkenning 2002/HCC001
Corrosiedeskundige Erkenning 2002/KCC001

CERTIFICATE OF COMPLIANCE

Certificate Number 20170621-MH62262
Report Reference MH62262-20170620
Issue Date 2017-JUNE-21

Issued to: Western Global Holdings
Western House
Broad Lane, Yale
Bristol
BS37 7LB UNITED KINGDOM

This is to certify that representative samples of TANK ACCESSORIES FOR FLAMMABLE AND COMBUSTIBLE LIQUIDS
USL - Overfill Prevention Devices, Models N (2", 3", and 4"), Models NT (2" and 3") and Models INOX (3")

CNL - Overfill Prevention Devices, pressure fill, Class 1, Models N (2", 3", and 4"), Models NT (2" and 3") and Models INOX (3"), maximum pressure of 86 psi.

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL2583, Outline of Investigation for Fuel Tank Accessories CAN/ULC-S661-2010-R2016, Standard for Overfill Protection Devices for Flammable and Combustible Liquid Storage Tanks

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's Certification and Follow-Up Service.

Look for the UL Certification Mark on the product

Bruce Patterson, Director North American Certification Program

UL Logo
Any information and communication involving UL must contain the printed or marked UL logo (UL) or any authorized likeness of UL. For questions, please contact a local UL Customer Service Representative at ULCustomerService@ul.com



Head office :
Z.I. Sud - Rue des Epinettes
CS 50152 TORCY
77208 MARNE LA VALLÉE CEDEX 1
FRANCE

S.A.S with Capital of €315 000
SIREN registration no.698 202 868 00023
NAF Code 4674B
VAT No. FR 25 698 202 868

Tel : +33(0)1 60 05 18 53
Fax : +33(0)1 60 17 58 39
info@selfclimat-morvan.com
www.selfclimat-morvan.com



Number	FPC47037/01	Issued	2008-07-01
Scope	hEN 13616	Replaces	--

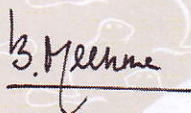
Declaration of FACTORY PRODUCTION CONTROL AoC levels 3 & 4

Kiwa Certification has determined that

Self-Climat

fulfils all provisions concerning the attestation of conformity and the performances described in Annex ZC of the standard hEN 13616. The products fulfill all of the prescribed requirements.

Product: Overfill prevention devices



ing. B. Meekma
Director Certification and Inspection, Kiwa N.V.

This declaration consists of 2 pages.
Publication of the declaration is allowed.

Kiwa N.V.
Certification and Inspection
Sir W. Churchill-laan 273
Postbus 70
2280 AB Rijswijk
The Netherlands

Telephone +31 70 41 44 400
Telefax +31 70 41 44 420
Internet www.kiwa.nl

Company

Self-Climat
Rue des Epinettes
Z.i. Sud
F-77200 TORCY
Frankrijk
Phone 00 33 16 0051853
Fax 00 33 16 0175839
e-mail info@selfclimat.com
Internet www.selfclimat.com

Voluntary Declaration of Factory Production Control for the attestation of conformity systems 3 & 4

Applicable to the products mentioned below, on a voluntary bases and in analogy to the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the (construction) products

Overfill prevention devices for storage installations of liquid petroleum fuels
Types:

Self-Climat

Types: DN 50, DN 80, DN 100, DN 50 NT, DN 80 NT, DN 80 INOX

Type and subtype: A2 (applicable for all types)

For filling by gravity or pump fill

Vapour tight: no (according non vapour tight test procedure EN 13616) (applicable for al types)

produced by the company

Self-Climat

Rue des Epinettes

Z.i. Sud

F-77200 TORCY

France

is submitted by the manufacturer to the initial type-testing of the product and a factory production control and that Kiwa Certification and Inspection has performed the initial inspection of the factory and of the factory production control and performs the continuous surveillance of the factory production control.

This declaration attests that all provisions concerning the attestation of factory production control described in Annex ZC of the standard

EN 13616

were applied, on a voluntary basis, as if a higher AoC system were in effect instead of the actual AoC systems 3 & 4. This declaration was first issued on July 01 2008 and remains valid as long as the conditions laid down in the harmonized technical specification in reference, or the manufacturing conditions in the factory, or the FPC itself are not modified significantly.

On the basis of this document the manufacturer is allowed to us the Kiwa FPC Label as shown on this page.



Number	K6218/08	Replaces	K6218/07
Issued	2009-08-01	Dated	2009-02-01

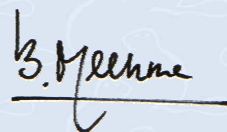
Product Certificate

Overfill prevention devices for storage tanks for liquid petroleum fuels

Based on pre-certification tests as well as periodic inspections by Kiwa, the products referred to in this certificate and marked with the Kiwa-mark as indicated under 'Marking', supplied by

Self-Climat

may, on delivery, be relied upon to comply with the Kiwa evaluation guideline BRL-K-636/03 "Overfill prevention devices for storage tanks for liquid petroleum fuels".



ing. B. Meekma
Director Kiwa N.V.

This certificate is issued in accordance with the Kiwa-Regulations for Product Certification.

This certificate consists of 2 pages.
Publication of the certificate is allowed.

Kiwa N.V.

Sir W. Churchill-laan 273
P.O. Box 70
2280 AB RIJSWIJK ZH
The Netherlands

Tel. +31 70 414 44 00
Fax +31 70 414 44 20
E-mail certif@kiwa.nl
www.kiwa.nl

Company

Self-Climat
Rue des Epinettes
Z.i. Sud
F-77200 TORCY
Frankrijk

Phone 00 33 16 0051853
Fax 00 33 16 0175839
e-mail info@selfclimat.com
Internet www.selfclimat.com

Representative

TAB de Blesse BV
Konijnenbergen 1
NL-8397 LL DE BLESSE

Nederland

Phone 00 31 561 441441
Fax 00 31 561 441093
e-mail info@tabdeblesse.com
Internet www.tabdeblesse.com

Page	2	Number	K6218/08	Replaces	K6218/07
		Issued	2009-08-01	Dated	2009-02-01

Overfill prevention devices for storage tanks for liquid petroleum fuels

PRODUCT SPECIFICATION

- Self-Climat type DN 50; filling by gravity or pump fill, maximum pressure 600 kPa by a volume flow of 40 m³/h;
 - Self-Climat type DN 80; filling by gravity or pump fill, maximum pressure 800 kPa by a volume flow of 60 m³/h;
 - Self-Climat type DN 100; filling by gravity or pump fill, maximum pressure 800 kPa by a volume flow of 60 m³/h;
 - Self-Climat type DN 50 NT; filling by gravity or pump fill, maximum pressure 600 kPa by a volume flow of 40 m³/h, closure en final closure at L1, chemical suitability for chemical products declared by Self-Climat;
 - Self-Climat type DN 80 NT; filling by gravity or pump fill, maximum pressure 800 kPa by a volume flow of 60 m³/h, closure en final closure at L1, chemical suitability for chemical products declared by Self-Climat;
 - Self-Climat type DN 80 INOX; filling by gravity or pump fill, maximum pressure 800 kPa by a volume flow of 60 m³/h, closure en final closure at L1, chemical suitability for chemical products declared by Self-Climat.
-

APPLICATION AND USE

Overfill prevention devices are designed to be used as protective devices of storage installations for liquid petroleum products, in which the liquid supply to the storage installation is automatically stopped, when the maximum filling level is reached.

MARKING

The products are marked with the Kiwa-mark.

Place of the mark: round identification plate on arm of floater

Compulsory specifications:

- Manufacturer's name or mark: Self-Climat (SC);
- Type and subtype: A2;
- Maximum static pressure: Depends on type, see product information;
- Mandatory markings CE and Ex;
- Manufacturing number and year.
- EN 13616;
- Vapour tight (no) according non vapour tight test procedure.

Place of these specifications: round identification plate on arm of floater

Method of marking:

- Non-erasable;
 - Visible after assembly: on instruction plate.
-

RECOMMENDATIONS FOR CUSTOMERS:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Check at the time of delivery whether: <ol style="list-style-type: none"> 1.1 the producer has delivery in accordance with the agreement; 1.2 the mark and the marking method are correct; 1.3 the products show no visible defects as a result of transport etc. 2. If you should reject a product on the basis of the above, please contact: | <ol style="list-style-type: none"> 2.1 Self-Climat
and, if necessary, 2.2 Kiwa 3. Consult the producer's processing guidelines for the proper storage and transport methods. 4. Check whether this certificate is still valid by consulting www.kiwa.nl |
|--|--|
-



Molendreef 43 B-9300 AALST
Tel : 053/78.34.85 Fax: 053/70.88.62
info@corcon.be www.corcon.be

Prototypekeur certificaat nr. CP1213/3000-HCC001

AANVRAGER

SelfClimat Morvan
Z.I. Sud – Rue des Epinettes
CS 50152 Torcy
77208 Marne La Vallee Cedex 1
Frankrijk

LEVERANCIER:

SelfClimat Morvan
Z.I. Sud – Rue des Epinettes
CS 50152 Torcy
77208 Marne La Vallee Cedex 1
Frankrijk

TYPE

*Automatisch beveiligingssysteem tegen overvulling :
mechanische klep met stalen testkoord*

KEURINGSMODALITEITEN

*Vlarem II (21-03-12) Hoofdstuk 5.17. Opslag van gevaarlijke producten
Bijlage 5.17.7. Overvulbeveiliging*

TOEPASSINGSGEBIEDEN

*Vlarem II (21-03-12)
Hoofdstuk 5.17
Opslag van gevaarlijke vloeistoffen in ondergrondse en bovengrondse houders*

CERTIFICAATBEGRENZING

*Opslag van vloeibare brandstoffen : P1-, P2- en P3-producten
(type DN 50, DN 80 en DN 100)
Opslag van andere dan vloeibare brandstoffen
(type DN 50 NT, DN 80 NT en DN 80 inox)
Temperatuursbegrenzing tussen – 25 en + 60 °C
Viscositeit maximaal 55 mm²/s*

**DIT CERTIFICAAT IS SLECHTS GELDIG
WANNEER VERGEZELD VAN HET CONFORMITEITSATTEST
VAN DE CONSTRUCTEUR
BIJHORENDE BLADZIJDEN 2 tot 12 LIGGEN
TER INZAGE BIJ DE BOUWER**

Certificaat geldig vanaf 09/12/2013 t.e.m. 08/12/2018

Francine Van Moorter

Milieudeskundige Erkenning 2002/HCC001
Corrosiedeskundige Erkenning 2002/KCC001

I Basiswetgeving

Onder artikel 5.17.1.17 van de Vlarem II reglementering wordt m.b.t. de vaste houders gesteld dat deze moeten voorzien worden van een overvulbeveiliging. Deze wetgeving voorziet ofwel een waarschuwingssysteem dat bij 95% vulling een akoestisch signaal geeft ofwel een beveiligingssysteem dat automatisch de vloeistoftoevoer afsluit bij maximum vulling van 98% van de vaste houder.

Volgens artikel 5.17.1.18 van diezelfde Vlarem II wetgeving moet elke overvulbeveiliging zoals beschreven in bijlage 5.17.7. vervaardigd worden overeenkomstig een code van goede praktijk, aanvaard door een milieudeskundige erkend in de discipline houders voor gassen of gevaarlijke stoffen.

De controle op de bouw moet worden uitgevoerd overeenkomstig de gekozen code van goede praktijk, door een milieudeskundige erkend in de discipline houders voor gassen of gevaarlijke stoffen.

De controle op de bouw voor in serie vervaardigde overvulbeveiligingen mag worden beperkt tot één prototypekeuring. De prototypekeuring moet worden uitgevoerd volgens bijlage 5.17.7 door een voormelde milieudeskundige. Het verslag van de keuring vermeldt de uitgevoerde controles en dient ondertekend te worden door voormelde deskundige.

II Afbakening

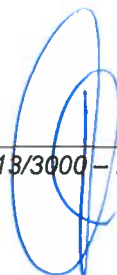
Het nazicht beperkt zich tot de Vlarem II conformiteit van het prototypetoestel en houdt geen enkele verantwoordelijkheid in m.b.t. de mogelijke productiefouten in de serie en de mogelijke gevolgen daarvan.

OPMERKING 1 :

Additioneel dient vermeld te worden dat de desbetreffende overvulbeveiliging niet volledig getest werd conform de huidige Europese wetgeving, zoals beschreven in de norm NBN EN 13616:2004 "Overvulbeveiligingsmiddelen voor niet-verplaatsbare tanks voor vloeibare brandstoffen".

OPMERKING 2 :

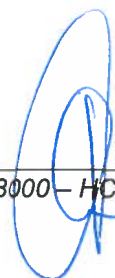
Behalve de verplaatsing van de productielocatie (van Rieger te CH-2540 Grenchen naar Selfclimat te F-77200 Torcy) en het nieuwe kwaliteitssysteem zijn er geen wijzigingen in het technisch concept.



III Verspreiding van dit document

Indien de constructeur beslist de inhoud van dit document kenbaar te maken aan derden, dan dient dit document in zijn geheel overgemaakt te worden. Gedeeltelijke reproductie van dit document is niet toegelaten.

Het is derden niet toegestaan om dit document te kopiëren, noch te verspreiden.

A handwritten signature in blue ink, consisting of a large, stylized 'C' or 'Q' shape with a vertical line through it, located at the bottom right of the page.

IV Prototypekeur

1. Doel

Deze prototypekeur wordt opgesteld in het kader van de Vlare II – wetgeving met als doel na te kijken of de mechanische klep van SelfClimat Morvan ingezet kan worden als automatisch beveiligingssysteem waarbij de voeding rechtstreeks wordt onderbroken, al dan niet met een vulpijp.

Het overvulbeveiligingssysteem zelf onder Vlare II heeft als doel het beletten van verontreiniging ten gevolge van overvulling. Door het aanbrengen van een geschikt overvulbeveiligingssysteem op de houder, zal de vuloperatie tijdig gestopt kunnen worden, zodat overvullen uitgesloten wordt. Het dient benadrukt te worden dat de overvulbeveiliging een noodstelsel is dat menselijke fouten beperkt. De overvulbeveiliging mag geen stelsel zijn om maximale vulling van de houder te bekomen.

De overvulbeveiliging onder Vlare II heeft als doel de vuloperatie tijdig te beëindigen, zodat overvullen van zowel ondergrondse als bovengrondse tanks voorkomen wordt.

De aanwezigheid van een overvulbeveiliging sluit de door Vlare II andere tankuitrustingen (zoals peilmeting, lekdetectiesysteem, ...) niet uit.

2. Prototypekeureisen

Basis voor de prototypekeuring is de Europese norm EN 13616:2004 'Overvulbeveiligingsmiddelen voor niet-verplaatsbare tanks voor vloeibare brandstoffen'.

Het toepassingsgebied onder deze norm behelst onder- en bovengrondse, stalen of niet-stalen houders, met een maximale hoogte van 5 meter.

De overvulbeveiliging mag ingezet worden bij de opslag van vloeibare brandstoffen, met een vlampunt ≤ 100 °C.

De overvulbeveiliging van Selfclimat kan ook ingezet worden voor niet-brandbare vloeistoffen lijst (type NT en inox).

De opgegeven limiet in de norm EN 13616:2004 is niet van toepassing voor de overvulbeveiliging van Selfclimat : de overvulbeveiliging kan ook ingezet worden op houders met een diameter of hoogte > 5 meter.

2.1 Initial Type Testing (I.T.T.)

Een staal van de productie voor een type A overvulbeveiliging (overvulbeveiliging waarvan de werking niet afhangt van de tankwagen of het bevoorradingsstelsel), moet volledig getest worden volgens punten 4.1, 4.2 en 5 van de eerder vermelde norm (Annex D).

Noot : Additioneel dient vermeld te worden dat de desbetreffende overvulbeveiliging niet volledig getest werd conform de huidige Europese wetgeving, zoals beschreven in de norm NBN EN 13616:2004 "Overvulbeveiligingsmiddelen voor niet-verplaatsbare tanks voor vloeibare brandstoffen".

2.2 Factory Production Control (F.P.C.)

De constructeur dient eveneens te beschikken over een kwaliteitssysteem, gebaseerd op de norm EN ISO 9001, teneinde te garanderen dat elke gefabriceerde overvulbeveiling voldoet aan de vooropgestelde eisen betreffende zijn werking.

3. Producent

De LDR (Limiteur De Remplissage) of mechanische klep wordt integraal gebouwd in de werkhuizen van:

Selfclimat Morvan
Z.I. Industrielle Sud – Rue des Epinettes
CS 50152 Torcy – 77208 Marne La Vallee Cedex 1
Frankrijk

4. Omschrijving - Werkingsprincipe

De LDR bestaat in 2 uitvoeringen, type DN voor vloeibare brandstoffen (P1, P2 en P3 producten) en type NT en inox voor vloeibare gevaarlijke stoffen (niet P-producten). Het werkingsprincipe van het vlottersysteem is hetzelfde. Het type NT en inox heeft één afsluitniveau, het type DN heeft twee afsluitniveau's.

4.1 Type NT en inox :

1. Overvulbeveiliging in ruststand :

De vlotter bevindt zich in de lage positie, de zuiger in de hoge positie (de toevoer is volledig geopend, de lekpoorten zijn volledig vrij).

2. Afsluitprocedure voor peil L1 :

De progressieve toename van het vloeistofniveau in de houder doet de vlotter stijgen. Tegelijkertijd zal de zuiger progressief sluiten. De lekpoorten worden gedeeltelijk bedekt (afsluiting).

Verdere stijging van de vlotter zorgt voor de volledige sluiting van de lekpoorten. De toenemende hydrostatische druk zorgt voor de volledige sluiting van de zuiger (peil L1). De vlotter bevindt zich op dat moment op de hoge positie.

3. Stoppen losprocedure :

De klep van de vrachtwagen, en de bijkomende luchttoevoer worden op dit moment afgesloten (volledig stoppen van de vulling).

4. Resterend volume :

Door het stopzetten van de vulling en de luchttoevoer, verdwijnt de restdruk op de zuiger. De zuiger zal gedeeltelijk stijgen en de volledig gesloten lekpoorten worden gedeeltelijk terug geopend.

Deze lekopening laat toe om de restvloeistof in de vulleiding te laten weglopen in de houder.

4.2 Type DN (met tegengewichtjes) :

1. Overvulbeveiliging in ruststand :

De vlotter bevindt zich in de lage positie, de zuiger in de hoge positie (de toevoer is volledig geopend, de lekpoorten zijn volledig vrij).

2. Afsluitprocedure voor niveau L1 :

De progressieve toename van het vloeistofniveau in de houder doet de vlotter stijgen. Tegelijkertijd zal de zuiger progressief sluiten. De lekpoorten worden gedeeltelijk bedekt (afsluiting). De tegengewichtjes worden aangedreven door een dwarsstuk nr. 1.

Bij verdere stijging van de vlotter, tot de halve stijghoogte, komen de tegengewichtjes los van het dwarsstuk nr. 1 en worden aangedreven door een dwarsstuk nr. 2.

Verdere stijging van de vlotter, omwille van de hydraulische druk en de stijgende tegengewichten die de vlotter omhoogtrekken, zorgen ervoor dat de lekpoorten worden afgesloten en de zuiger helemaal wordt gesloten.

3. Stoppen losprocedure :

De klep van de vrachtwagen, en de bijkomende luchttoevoer worden op dit moment afgesloten (volledig stoppen van de vulling).

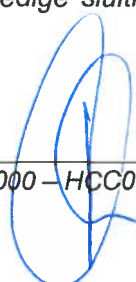
4. Resterend volume :

Door het stopzetten van de vulling en de luchttoevoer, verdwijnt de restdruk op de zuiger. De zuiger zal gedeeltelijk stijgen, mede door het gewicht die de tegengewichtjes uitoefenen op het dwarsstuk nr. 2., en de volledig gesloten lekpoorten worden gedeeltelijk terug geopend.

Deze lekopening laat toe om de restvloeistof in de vulleiding te laten weglopen in de houder.

5. Sluiting bij niveau L2 (Lmax) :

Bij accidentele overvulling, te grote resthoeveelheid in de bevullingsleiding of het niet respecteren van de geldende debieten, zal de vlotter verder stijgen, net zoals de tegengewichten via de dwarssteun nr. 2, zodat de zuiger opnieuw voor een volledige sluiting zorgt.



5. Functiebereik

De mechanische kleppen mogen enkel ingezet worden onder volgende condities en toepassingslimieten :

- gebruikstemperatuur : -25 °C tot +60 °C
- viscositeit medium : max. 55 m²/s
- pompdebiet :
40 m³/u (type DN 50 en DN 50 NT)
60 m³/u (type DN 50, DN 80 NT, DN 80 inox en DN 100)
- werkdruk :
max. 6 bar (type DN 50 en DN 50 NT)
max. 8 bar (type DN 50, DN 80 NT, DN 80 inox en DN 100)

6. Bouwregels

De Selfclimat overvulbeveiligingen van het type mechanische klep, wordt geconstrueerd volgens de intene montage-voorschriften SC/MLDR/03 (versie 03 d.d. februari 2013). De geleverde onderdelen worden volgens het interne kwaliteitsschema op regelmatige basis gecontroleerd.

7. Toepassingsgebied

De mechanische klep mag aangewend worden voor de opslag van vloeibare brandstoffen en andere dan vloeibare brandstoffen in zoverre deze laatste geen reactie aangaan met de gebruikte materialen voor de constructie :

- model DN 50, DN 80 en DN 100 : P1, P2 en P3 producten
- model DN 50NT, DN 80NT en DN 80 inox) : volgens de niet limitatieve lijst van de producent en apart the checken voor elk ander chemisch product

De mechanische kleppen mogen eveneens ingezet worden in explosieve zone's, klasse II 1 G c IIB T6.

8. Ontvangen documenten / monsters

(a) Er werden ons nieuwe exemplaren van de mechanische klep aangeboden.

Behalve de nieuwe uitvoering van de NT en inox type (uitvoering zonder tegengewichten en in andere materiaalsoorten omwille van chemische resistentie), zijn er verder geen wijzigingen aan de mechanische klep van Selfclimat.

Deze nieuwe aangeboden modellen werden eveneens getest in januari 2014.

De gepresenteerde exemplaren zijn voorzien van volgende referentienummer :

- DN 50 : 242K
- DN 80 : 538Y
- DN 100 : 539Y
- DN 50 NT : 376A
- DN 80 NT : 155B
- DN 80 INOX : 1036A

(b) Onderstaande documenten werden ons ter beschikking gesteld:

- de technische fiches SECENV-LDR, LDR NT en LDR INOX;
- de installatie- en gebruiksinstructies voor de zes verschillende types (F, NL, E: editie 2008);
- in- en externe testverslagen (zie verder);
- Kiwa productcertificaat K6218/08 d.d. 2009-08-01 en CE verklaring op basis van het Kiwa certificaat;
- Kiwa 'Factory Production Control AoC levels 3&4' verklaring FPC47037/01 d.d. 2008-07-01;
- CE verklaring van Ineris betreffende de conformiteit met de Atex Directive (94/9/CE) en de geharmoniseerde normen EN 13463-1 en 13463-5, d.d. 5 maart 2009
- de flowsheets van het kwaliteitssysteem.

De voorgestelde modellen hebben de volgende diameter en materiaalkarakteristieken volgens de technische fiche's :

	DN 50	DN 80	DN 100	DN 50 NT	DN 80 NT	DN 80 Inox
Diameter	50 mm	80 mm	100 mm	50 mm	80 mm	80 mm
Behuizing	Aluminium	Aluminium	Aluminium	Geanodiseerd aluminium	Geanodiseerd aluminium	Inox 316
Vlotter	Staal DC 04	Staal DC 04	Staal DC 04	Inox 316 L	Inox 316 L	Inox 316 L
Tegengewicht	Messing	Messing	Messing	/	/	/
Stang tegengewicht	Staal AS 300	Staal AS 300	Staal AS 300	/	/	/
Schroeven en onderdelen	Inox	Inox	Inox	Inox	Inox	Inox

Alle modellen zijn van het type A2, zodat ze zowel inzetbaar zijn bij gravimetrische vulling als door pompvulling.

9. Controle methode

In artikel 4 van bijlage 5.17.7 van Vlarem II staat het volgende beschreven:

"De hoger beschreven systemen dienen zodanig ontworpen en afgestemd dat een controle van de goede werking van de installatie mogelijk is vóór het starten van de vuloperatie.

De controle op de goede werking van de overvulbeveiliging maakt deel uit van het periodiek onderzoek door de erkende milieudeskundige, de bevoegde deskundige of de erkende technicus."

Selfclimat heeft hiervoor een testmethode waarbij de vlotter via een stalen koord omhoog wordt getrokken via een opening door het mangat op ca. 180 mm van de vulopening.

De frequentie van deze controle wordt door Selfmatic aanbevolen bij ingebruikname en nadien minstens 1 keer per jaar. Dit moet aangepast worden in de technische fiche voor de modellen DN 50 DN 80 en DN 100 en toegevoegd worden in de technische fiche voor de modellen DN 50 NT, DN 80 NT en DN 80 Inox.

10. Uitgevoerde nazichten

Ter plaatse op 09 december 2013 werd er door Corcon een routine test gevolgd op de testbank, ter controle van de afsluiting op peil L1 en peil L2 (overvulbeveiliging type DN 80 met serienummer 219 Y).

De verdere controle betreft het nazicht van verschillende testrapporten zowel interne als externe documenten.

Zoals reeds eerder vermeld werden niet alle testen uitgevoerd of werden niet alle controles geattesteerd zoals voorgeschreven in punt 4 en 5 van de norm EN 13616:2004.

De volgende testen werden uitgevoerd op één of meerdere verschillende types overvulbeveiliging

- 4.1.3 : controle van de volledige afsluiting bij niveau L1 en L2 (Rapport SC/EFALDR/01 van 12/04/2011)
- 5.4 : lek test (Rapport SC/EFALDR/01 van 12/04/2011)
- 5.5.3 : druk testen (Rapport N°P137728/13 d.d. 04 april 2013 van Ineris)
- 5.5.4.6 : mechanische test (Rapport SC/FEM/LDR/01 van 31 mei 2010)
- 5.5.4.7. duurzaamheidstest (tijdens bezoek door Corcon)
- 5.5.4.9 : dampdruktheidstest (attest van 12/03/2008)

11. Kwaliteitscontrole

Het bedrijf heeft een eigen kwaliteitssysteem, gebaseerd op basis van ISO 9000, geattesteerd door Ineris (Atex volgens EN 13463-1 en 13463-5 en volgens de directie 94/9/CE) en door KIWA (volgens EN 13616:2004).

Het controleschema SC/SPQLDR/05 wordt gebruikt ter controle van de binnenkomende onderdelen, de assemblage, de controle van de afgewerkte producten en de kalibraties van meetapparatuur met de frequentie van de controle.

Hiervoor beschikt Selfmatic over de nodige registratie documenten.

Het kwaliteitssysteem voldoet hiermee aan de voorwaarden gesteld in annex D van de norm EN 13616:2004 : systeem ter evaluatie van de conformiteit.

De evaluatie van het kwaliteitssysteem dient verplicht verlengd te worden onder deze prototypekeuring.

12. AREI

Bijlage 5.17.3 van het Vlare II vermeldt:

"De elektrische installatie moet voldoen aan de bepalingen van het Algemeen Reglement op de Elektrische Installaties (AREI) en moet van een degelijke kwaliteit zijn om de kans op vals alarm te beperken."

Hiervoor beschikt Selfclimat over een attest, opgesteld door Ineris, met de vermelding van de categorie van de voorgestelde overvulbeveiligingen.

De constructeur verklaart dat de Selfclimat LDR, alle types, mogen gebruikt worden in een explosiegevaarlijke omgeving. Deze hebben aldus de volgende Ex-markering : II 1 G c IIB T6.

13. Risicoanalyse

Artikel 4 van de bijlage 5.17.7 van Vlare II stelt dat ten behoeve van de prototypekeuring de resultaten van een risicoanalyse ter beschikking van de milieudeskundige moeten worden gesteld. De milieudeskundige dient de risicoanalyse – met de nodige medewerking van de fabrikant en/of de invoerder - te evalueren.

Hiervoor werd een evaluatie opgesteld voor alle modellen door SelfClimat.

Gezien het werkingsprincipe en de bouw van de overvulbeveiliging zijn de eventuele risico's eerder beperkt.

In de gebruikshandleiding wordt er enkel melding gemaakt van een verplichte jaarlijkse stroomdoorgangtest. Deze mag enkel uitgevoerd worden door personen die bevoegd zijn om te werken met materiaal dat gebruikt worden in omgevingen waar ontploffingsgevaar kan heersen.

14. Markering

De norm EN 13616:2004 geeft onder punt 5.7 de verplichte informatie die de exploitant moet vermelden op de overvulbeveiliging en op een instructieplaatje aan het vulpunt. Deze zijn toegevoegd aan het dossier en voldoen aan de norm.

15. Verplichtingen van de constructeur

- Attest

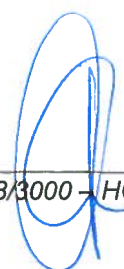
De constructeur zal met elke overvulbeveiliging een ondertekend attest bezorgen aan de exploitant. Dit attest dient het nummer van het prototypekeuringsattest en de milieudeskundige (en zijn erkenningsnummer) die het keuringsattest heeft afgeleverd te vermelden. De constructeur bevestigt in het attest tevens dat het overvulbeveiligingssysteem gebouwd en gecontroleerd werd overeenkomstig de bepalingen van het Vlarex titel II.

- Gebruikshandleiding en montage-instructies

De constructeur zal aan de exploitant en zijn installateur een gebruiksaanwijzing en de montage-instructies in de Nederlandse taal afleveren.

- Kwaliteitscontrole

De constructeur verbindt er zich toe het voornoemde ISO 9001:2008 certificaat, dat vervalt vóór het einde van deze keur, te zullen hernieuwen en updaten, teneinde de continue kwaliteit van de productie te kunnen blijven garanderen.



V Besluit

De overvulbeveiliging type Limiteur de Remplissage (LDR) type DN 50, DN 80, DN 100, DN 50 NT, DN 80 NT en DN 80 INOX kan conform de eisen, gesteld in Varem II bijlage 5.17.7, aangewend worden als overvulbeveiliging, meer bepaald als beveiligingssysteem (maximale vulling 98 vol%) en dit voor gravitaire vulling of vulling met een pomp.

De overvulbeveiliging draagt in zijn functie als overvulbeveiliging het volgende prototypekeurnummer:

CP1214/3000-HCC001

Dit nummer dient vermeld te worden op ieder toestel, geplaatst in het regionaal gebied van de Vlaamse gemeenschap. Elk toestel dient vergezeld te zijn van een gebruiksaanwijzing.

De constructeur zal een ondertekend attest uitschrijven dat het nummer van het prototypekeuringsattest en het erkenningsnummer van de milieudeskundige die de keur heeft afgeleverd vermelden en bevestigt dat de overvulbeveiliging werd gebouwd en gecontroleerd overeenkomstig de bepalingen van het Vlarem titel II (21-03-12).

Deze prototypekeur wordt uitgereikt voor een periode van 5 jaar (t.e.m. 08/12/2018). Elke wijziging aan het goedgekeurde prototype zal aanleiding geven tot het vervallen van deze keur tenzij er wordt overgegaan tot het aanpassen ervan.

Elke wijziging aan het goedgekeurde prototype zal automatisch aanleiding geven tot het vervallen van deze keur, tenzij er wordt overgegaan tot de aanpassing van deze keur.

De milieudeskundige houdt zich het recht voor om deze keur eerder dan de vervaldatum stop te zetten bij afwijkende vaststellingen.

Elk onrechtmatig gebruik van dit prototypekeurnummer zal gerechtelijk vervolgd worden.

Opgemaakt te Aalst en geldig vanaf 09 december 2013

Francine Van Moorter

Milieudeskundige – erkenning 2002/HCC001
Corrosiedeskundige – erkenning 2002/KCC001