SAFETY, ENVIRONMENT
Technical datasheet

OVERFILL PREVENTION DEVICES TYPE DN50 NT and DN80 NT FOR THE CHEMICAL INDUSTRY

Technical datasheet No.: SECENV-LDR NT
Product code: 308 279 / 308 277

Date: 08/02/2018 **Page**: 1/2
Replaces: version 26/09/2017

EN 13616

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

Application
Designed for aviation fuels, biofuels, additives, other petroleum products, miscellaneous chemical products.

Operating
- ✓ Delivered ready-to-fit: fits on the filler tube inside the tank.
- ✓ A dip tube must be fitted under the OPD to prevent turbulence or foam forming (risk of accidental closure).
- ✓ A complete and single automatic closure at level N1.
- ✓ At level N1 and once the filling process has stopped, drainage of residual liquid remaining upstream of the device is permitted.

+ Product
- ✓ High reliability and durability of operation
- ✓ High material resistance, an all-metal product (no seal, no gasket, no maintenance)
- ✓ Provides a complete and automatic closure
- ✓ Suitable for gravity or pressure filling operation
- ✓ Operational test on every unit
- ✓ A cable tester is available as an option

Characteristics & standards
- ✓ Suitable for use in group IIB potentially explosive atmospheres
- ✓ ATEX Ⓔx II 1 G c IIB T6 marking
- ✓ ATEX : INERIS 07ATEX0037 EC-type examination certificate
- ✓ ATEX : Production Quality Assurance Notification INERIS 07ATEXQ404
- ✓ Compliant with Directive 2014/34/EU
- ✓ Compliant with the following standards:
  - EN 13616 - Subtype A2 (The equipment is not affected by substantial modifications of the EN 13616-1 : 2016 standard)
  - KIWA BRL–K-636/03 (Netherlands) *
  - Vlarem II (Belgium) *
  - UL 2583 (United States) *
  - CAN/ULC-S661-10 (R2016) (Canada) *

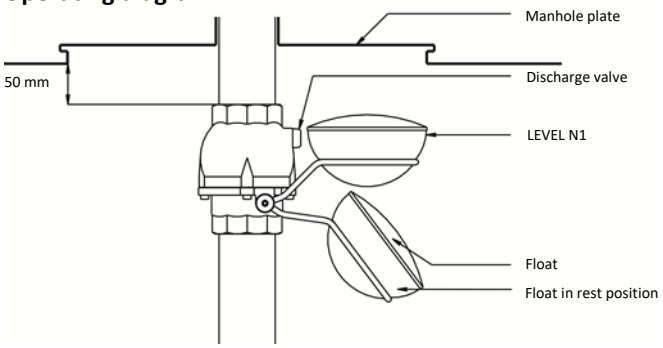
(*) Attention ! The item reference differs depending on the country of destination. Please contact us.

Composition
Supplied with fitting instructions and aluminium identification plate

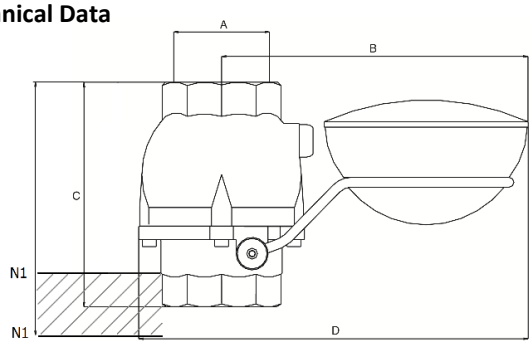
Compatibility
Before installing check the compatibility between the LDR and the nature of the liquid stored in the tank, characteristics determining the type of device to be installed. Compatibility opinions given by Self Climat are for information only and can in no circumstances be used contractually.

Warranty
12 months provided fitting and operating instructions are observed.

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
Range N1 - gravity (mm)	130-140	115-180
Range N1 - pressure (mm)	130-170	115-200
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	G2" BSP F/F	G3" BSP F/F
Min. pressure	0,15 bar	0,15 bar
Max. pressure	6 bar	8 bar
Min. flow	1.4 m^3/h	3.6 m^3/h
Max. flow	40 m^3/h	60 m^3/h
Max. liquid 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

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Non-exhaustive list of chemical products suitable for use with OPD DN 50 NT and DN 80 NT.

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