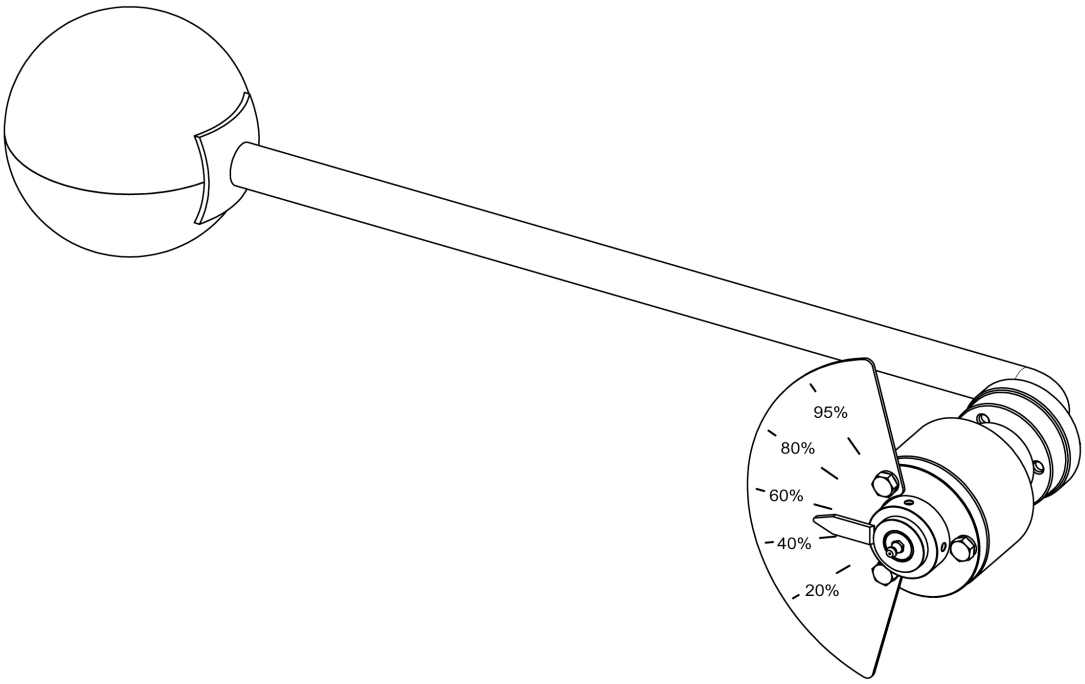
EN

ADR LEVEL INDICATOR

ORIGINAL INSTRUCTIONS



TECHNICAL DATA SHEET

CODE 18690 001 00

jurop

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =

Rev. 02
27-02-2015

1. General warnings

This technical data sheet contains technical information concerning the ADR level indicator and the main installation and maintenance instructions.

Complying with the instructions contained in this technical data sheet is crucial for the recognition of warranty against defective parts. Upon receiving the goods, ensure that they are intact and have not been accidentally damaged during transport.

In the event parts of the accessory must be replaced, **use only genuine spare parts**.

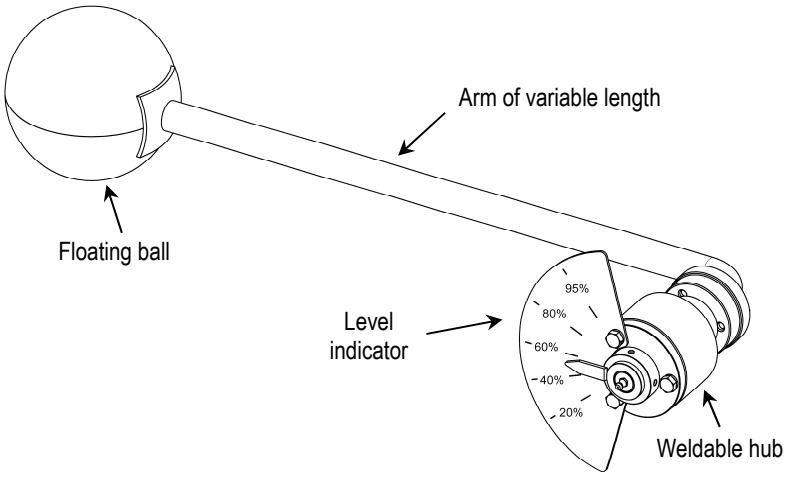
2. Technical data

Level indicators are devices that allow to measure the degree of fullness of a tank, exploiting the presence of a float inside it.

The ADR level indicator is equipped with an arm of variable length (depending on the diameter of the tank in which it must be installed, refer to the paragraph relating to installation) whose free end is fitted with a stainless steel floating ball.

The ADR level indicator is predisposed to be installed on the tank bottom of ADR vehicles, on the right or left side, according to the required installation needs, refer to par. 3.

The figure to the side shows a general diagram of the ADR level indicator (in the event of a configuration for installation on the right side).



The ADR level indicator is available in the following version:

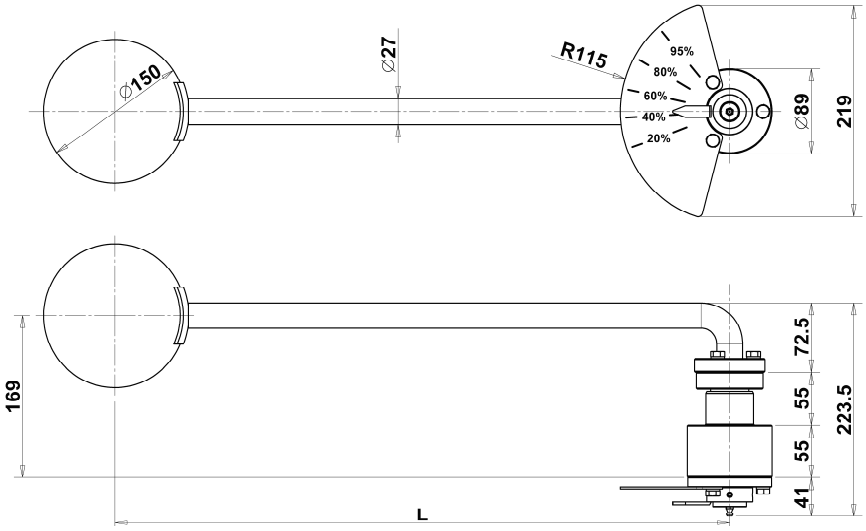
- **ADR level indicator,** code 18690 001 00, with weldable parts made of **Stainless Steel AISI316 1D 1.4401 EN10088**.

All components of the ADR level indicator are made of 316 Stainless Steel, in order to ensure protection in the various conditions of use. The following table shows the main operating parameters concerning operating pressure (relative), operating temperature and weight.

Operating parameters

Parameter	Value
OPERATING PRESSURE	-1 / +4 bar
WEIGHT (MIN L - MAX L)	7.2 – 8.1 Kg/cm²

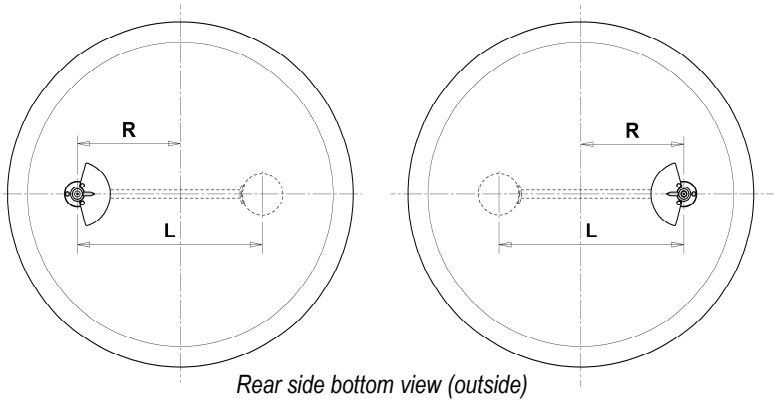
The figures below show the main overall dimensions of the ADR level indicator.



3. Installation

Installation of the ADR level indicator requires that the tank is perforated in order to allow insertion, and subsequent welding, of the device hub. For the welding parameters refer to the material specifications indicated in par. 2.

The position of the hole in which to install the level indicator depends on the internal diameter of the tank. The figure to the side shows the proper installation position. The table below indicates the distance values to be observed (**R**) from the vertical axis of the bottom and the length of the floating lever (**L**), according to the internal diameter of the tank (**Φi**).



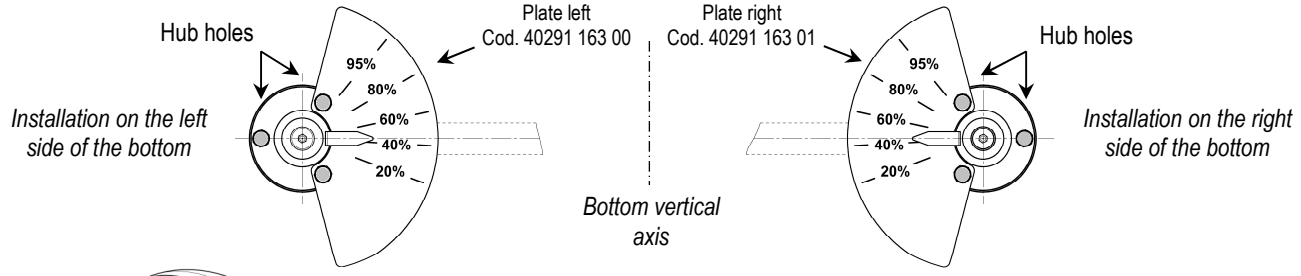
Rear side bottom view (outside)

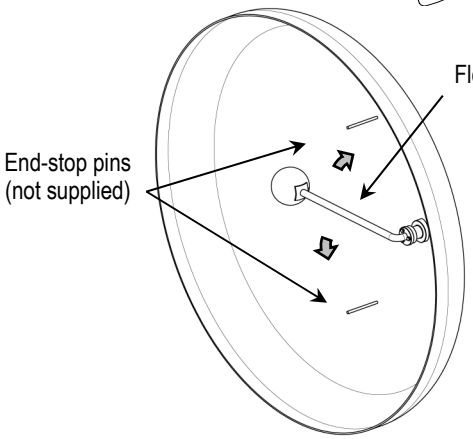
Table of values for proper installation

Type	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*	*12*	*13*	*14*	*15*	*16*	*17*	*18*	*19*	*20*	*21*	*22*	*23*
Φi (mm)	1100	1150	1200	1250	1300	1350	1400	1450	1500	1550	1600	1650	1700	1750	1800	1850	1900	1950	2000	2050	2100	2150	2200
R (mm)	420	440	460	478	497	516	535	555	574	593	612	630	650	670	690	710	725	745	765	785	802	822	820
L (mm)	647	677	706	735	765	795	825	853	883	912	942	970	1000	1030	1060	1090	1118	1148	1177	1205	1235	1265	1265

Note: specify the internal diameter of the tank when ordering and the installation position (left or right).

The installation position, on the right and left side of the tank bottom, determines the position of the hub holes (which must be complied with when welding the hub). The figure below shows the proper installation orientation.





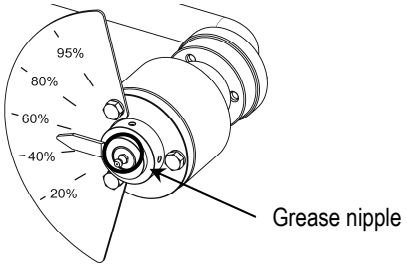
During installation it is recommended to position the end stops (e.g. pins welded on the internal part of the tank bottom) to limit movement of the floating lever and prevent rotation beyond permitted limits (e.g. during tank bottom opening operations). The end stop pins must be positioned so that they come into contact with the floating lever only (not will the ball) and prevent the ball from knocking against other elements present (it could deform).

It is recommended to check that the movement of the floating lever is not inhibited by the presence of other components present on the bottom of the tank (e.g. suction hoses, etc.).

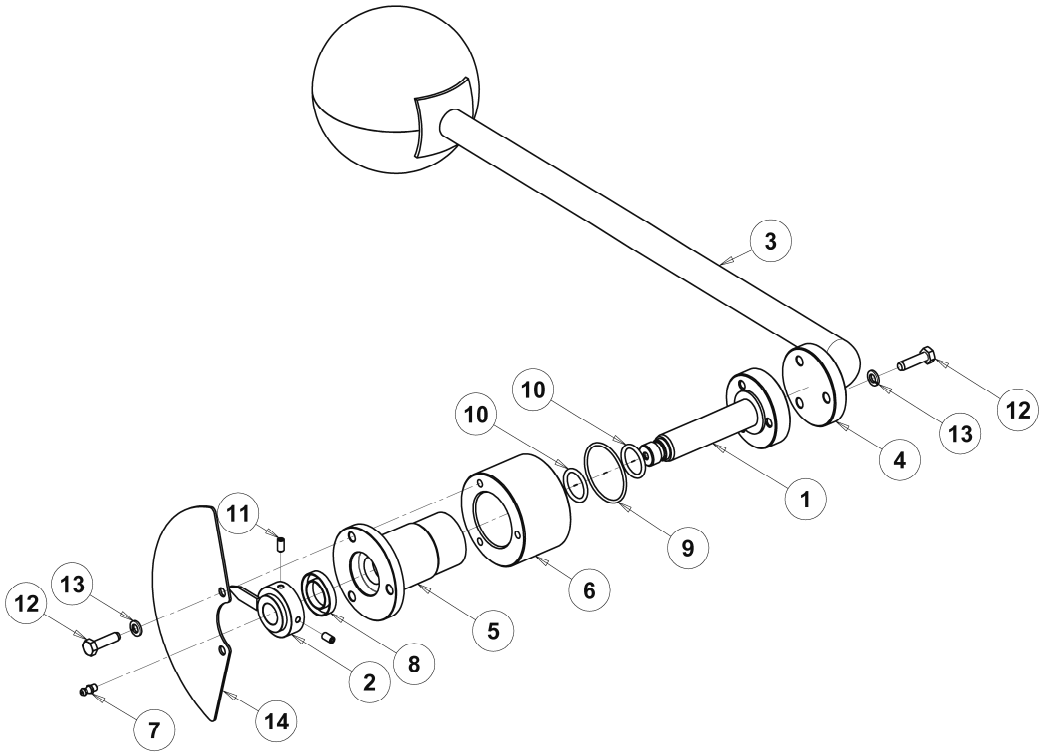
4. Greasing

In order to work properly, the level indicator must undergo routine greasing/lubricating maintenance of the rotation hub. Lubricate when needed.

We recommend using **NLGI EP 2 lithium grease.**



ADR LEVEL INDICATOR



ADR level indicator - code 18690 001 00

Pos.	Code	Description	Q.ty	Pos.	Code	Description	Q.ty
1	1522000500	FLOAT. LEVEL PIN	1	9	4022200231	O-RING 3206	1
2	1522000600	HUB 316 STAINLESS STEEL	1	10	4022200241	O-RING 4100	2
3	1592000300	FLOATING LEVER 316 STAINLESS STEEL	1	11	4026136205	HEADLESS SCREW 12.9 M8X12	2
4	1610012900	WELD. FLANGE FLOAT. 316 STAINLESS ST.	1	12	4026140309	HEX SCREW 316 STAINLESS STEEL M8X30	6
5	1611000200	ADR 316 STAINLESS STEEL LEVEL HUB	1	13	4026350805	STAINLESS STEEL 316 GROWER W. M8	6
6	1611000300	WELD. HUB ADR LEVEL 316 STAINLESS ST.	1	14	4029116301	ADR LEVEL PLATE STAINLESS ST. RIGHT	1
7	4022100100	STRAIGHT HEX BALL-TYPE GR. NIP. M6X1	1		4029116300	ADR LEVEL PLATE STAINLESS ST. LEFT	1
8	4022200006	SEAL RING 47X35X7	1				