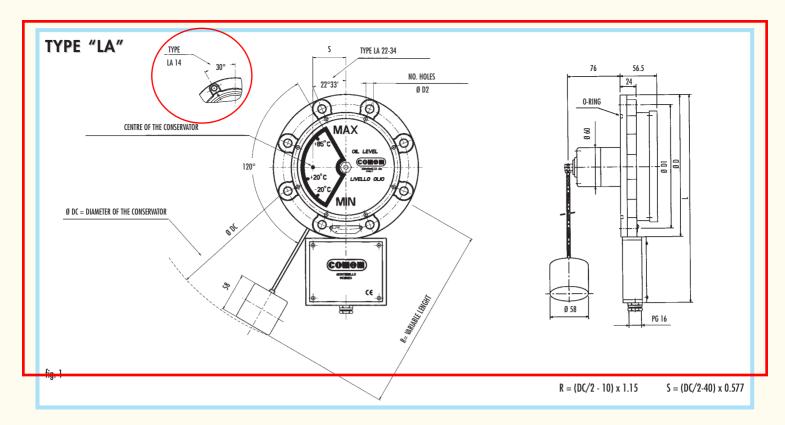
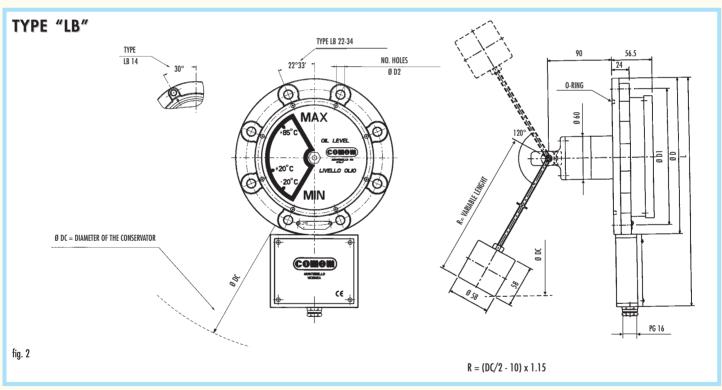


LEVEL GAUGES WITH MAGNETIC JOINT SIZE Ø 140/220/340

with glass below.







TYPE OF GAUGE	Ø D	Ø D1	Ø D2	NO. HOLES	L	O.RING TYPE	WEIGHT kg	R STANDARD
LA14	140	125	7	6	245	O.R. 186 (6362)	1.40	max. 370
LA22	220	190	11.5	8	325	O.R. 221	2.30	max. 550
LA34	340	305	18	8	445	O.R. 248 (81000)	6.00	max. 710
LB14	140	125	7	6	245	O.R. 186 (6362)	1.70	max. 370
LB22	220	190	11.5	8	325	O.R. 221	3.60	max. 550
LB34	340	305	18	8	445	O.R. 248 (81000)	6.30	max. 710
								INTERCORE IN THE INTEREST

DIMENSIONS IN MILLIMETERS

LEVEL GAUGES WITH MAGNETIC JOINT

The level gauges with a magnetic joint are composed of a sturdy watertight body of aluminium alloy painted against corrosion. The movement of the float rod and the gauge disk takes place by means of magnetic coupling through an angle of 120°. In this way, for every variation in the level of the liquid there is a corresponding rotation of the magnet with consequent variation of the indication on the dial of the gauge. The gauge disk is coloured white and red. The system is closed with a screen-printed polycarbonate disk with reference marks corresponding to the levels that the oil should reach at the following temperatures in degrees Centigrade: -20°C, +20°C, +85°C. **Note**: special dials may be made on request.

READING THE INDICATIONS OF THE VARIOUS LIQUID LEVELS

- Minimum level: when the dial shows all red.
- Maximum level: when the dial shows all white.
- Intermediate indications between MAX and MIN: the dial shows part white and part red. Remember that the amount of red shown indicates, in proportion, the part of the conservator left without liquid.

FLOAT MOVEMENT

This may be in the radial direction of the conservator (type "LA") or in the axial direction (type "LB"), as shown in the drawing (Fig. 1 and 2).

FLOAT ROD

This is completely threaded. If the length is not specified (distance R in the drawing, fig. 1 and 2), the standard size indicated on the table is supplied.

ELECTRIC INDICATION

These level gauges are fitted with microswitches for indicating the minimum and maximum oil level.

ELECTRIC CHARACTERISTICS

- Power supply: 24 to 220 V a.c. or d.c. - Interruption power: 3 A 125/250 V ac (resistive)

0.5 A 125 V dc for inductive load L/R = 40 ms 0.25 A 250 V dc for inductive load L/R = 40 ms

INDICATING INTERVENTION

The electric microswitches intervene with an advance angle of 5° with respect to the indications of the minimum or maximum oil level in the conservator. When there is a double contact on MIN and/or MAX, the second contact intervenes about 5° after the first contact. After installation of the gauges it is possible to check the correct operation of the microswitches and, in general, good operation of all the internal parts of the gauge by proceeding as follows:

- Remove the cap situated in the centre of the dial on the front of the level gauge, unscrewing it in an anticlockwise direction.
- Insert a screwdriver in the slot provided and turn the gauge disk until the electric circuit connected to it switches on or off.
- Close the cap again, being particularly careful to position the O-ring (O.R.) correctly under the cap and to screw the cap on quite firmly.

RESISTANCE TO VIBRATIONS ON THE ELECTRIC CONTACTS

Tests have been carried out according to the procedures illustrated below in graph (10 cycles), with an amplitude of oscillation of 2 mm and in normal working conditions. No contacts gave any sign of closing or opening.

Notes

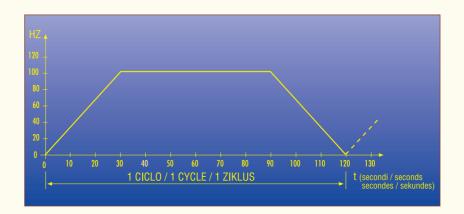
External nuts and bolts made of stainless steel.

External painting in grey RAL 7001.

Degree of protection: IP 54.

Working temperature. All the level gauges are suitable for working with:

- Oil temperature between: -25°C and +120°C - Environment temperature between: -25°C and +60°C



INDICATIONS FOR ASSEMBLY

The level gauges which have float movement in the radial direction of the container (type "LA") must be fitted offset with respect to the horizontal axis of the conservator (distance "S" fig. 1) so as to have an exact indication of the minimum and maximum oil level.

Those with movement in the axial direction (type "LB") must be fitted in the centre of the conservator. The measurements of the movements (distance "S") and the length of the rod (distance "R") are obtained from the formulae given under fig. 1 and 2. It is good practice to check operation of the gauge after having fitted it on the conservator. For further and more detailed information, see the technical information card supplied.

TESTS AND INSPECTIONS

The level gauges are subjected to insulation test towards earth as follows: 2.5 kV AC 50/60 Hz for 72 seconds. The bodies of the level gauges, after having passed the dimensional inspection and without their internal parts, are tested for watertightness so as to eliminate those that have leaks. Final testing is carried out when the level gauge is completely assembled. The sensitivity of all the signalling movements and the accuracy of their assembly are scrupulously checked.

IDENTIFICATION MARKS

The mark that completely identifies the type of level gauge is composed of a series of letters and numbers according to the following pattern:

1 (letter) L	Level gauge				
0 (1-44-11	, Α	Movement of the radial float (fig. 1) (letter)				
2 (letter	⁾ В	Movement of the axial float (fig. 2)				
	14	Size of the level gauge = Ø 140 mm				
3 & 4 (cifra)	ra) 22	Size of the level gauge = Ø 220 mm				
	34	Size of the level gauge = Ø 340 mm				
5 (letter	K	Wiring diagram with 1 contact on min.				
	, Ү	Wiring diagram with 2 contacts on min.				
J (1011011	X	Wiring diagram with 1 contact on min. + 1 contact on max.				
	W	Wiring diagram with 2 contacts on min + 2 contacts on max.				
6 (lettera)	, 0	Ordinary paint				
o (lellero	'' S	Paint for corrosive environments				
7 (lettero	. N	COMEM standard level gauge				
/ (lellelt	'' s	Specific level gauge for customer				

Example: LA14XON

Level gauge with radial movement, diameter 140 mm, wiring diagram with 1 contact on minimum and 1 contact on maximum, painted for normal environments and with standard COMEM dial and rod length.

WIRING DIAGRAMS

DIAGRAM TYPE "K"

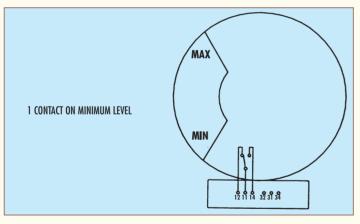


DIAGRAM TYPE "Y"

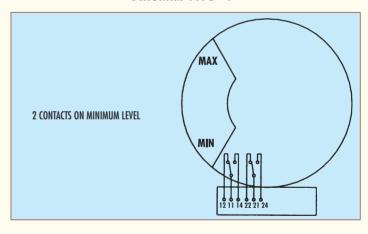


DIAGRAM TYPE "X"

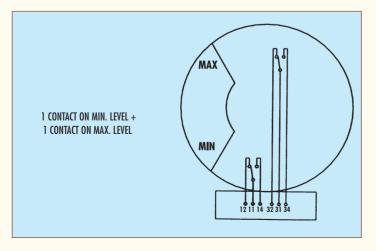
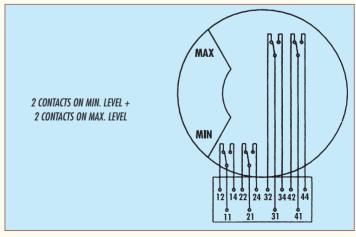
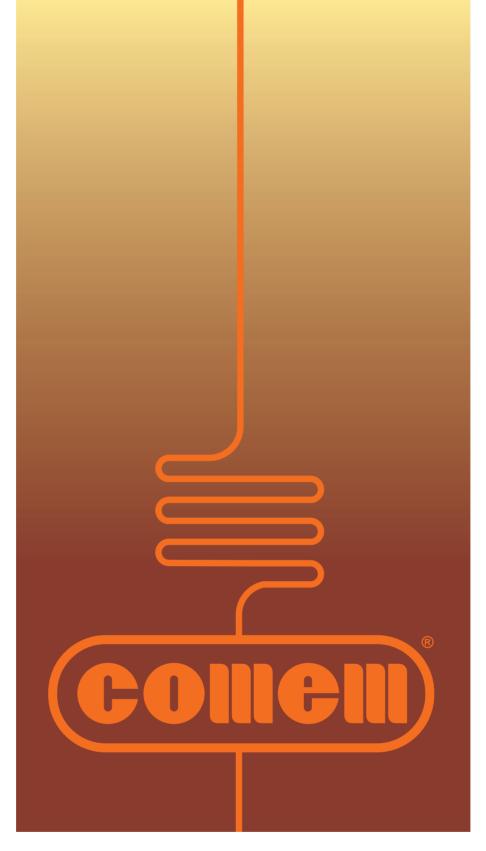


DIAGRAM TYPE "W"





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