

NEXOIL

FLUID SYSTEMS MANUFACTURING



Flow switches – Flow meters Series 7040

CE

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INTRODUCTION

This manual refers to the flow switches/flow meters 7040 series.
 Conserve properly this manual to avoid his damage.

DESCRIPTION AND TECHNICAL FEATURES

Flow switches and flow meters, generally known as flow indicators, are used for the visual and electrical regulation, measurement and control of the flow rate of a pressurized liquid (max 15 bar).

The incorporated electrical conact supplies an alarm signal wenever the variation in the flow of liquid exceeds + 10% of the rated value.

Series 7040 devices are often used in lubrication systems with recycling in cooling circuits, coolers, compressors, welders, transformers, paper mill machines and chemical, food and pharmaceuticals plants.

Series 7040 flow indicators can be supplied individually or assembled in modules by means of connecting bases.

Flow indicators are constructed in light alloy or AISI 316 stainless steel and consist of a central body, two connecting heads, a flow regulator incorporated in the base, a spool with permanent magnet, a transparent tube with graduated scale, seals, and a slider with magnetic contact complete with connector for electrical connection.

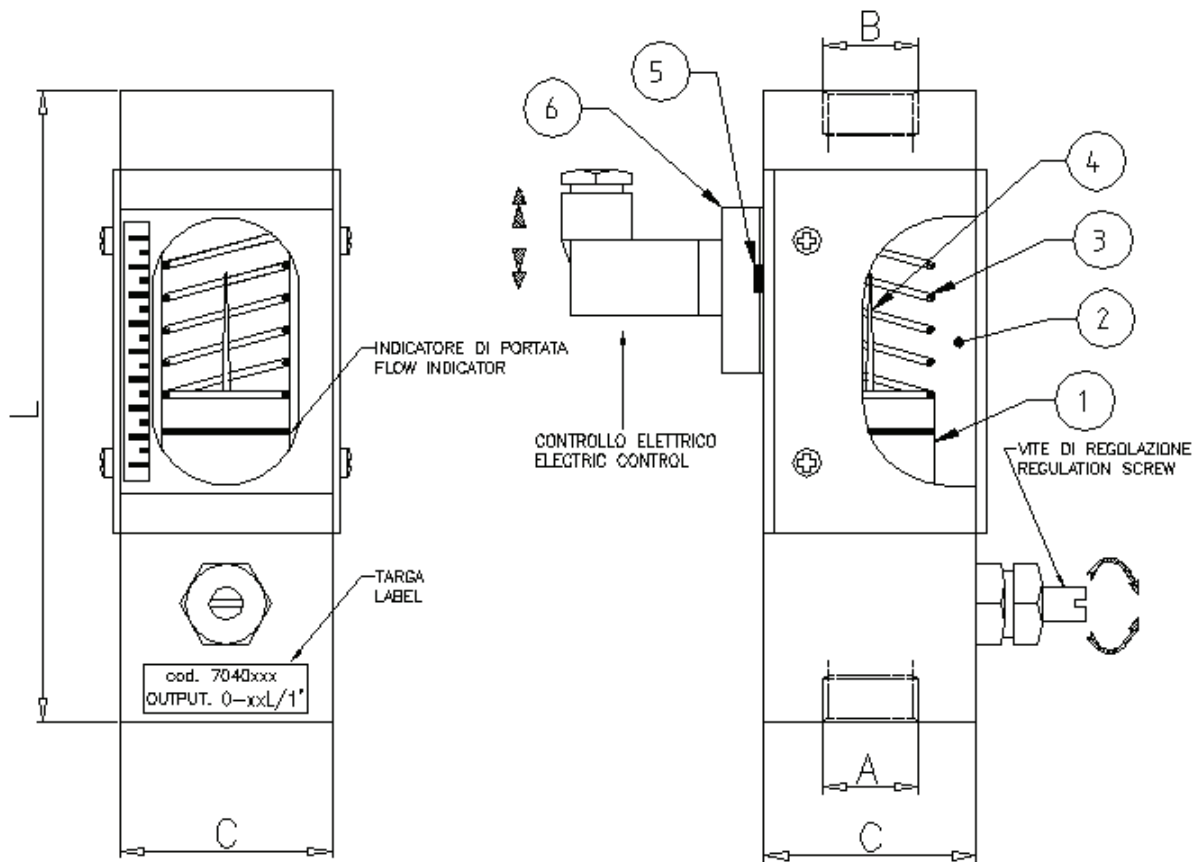
The follow table indicates technical features of flow switch.

FLOW SWITCH/FLOW METER	
MAX OPERATING TEMPERATURE	80° C
FLOW RATE RANGE	UP TO A 60l/min
FLOW REGULATION	BUILT-IN FLOW REGULATOR
MAX OPERATING PRESSIONE	15 bar
CONTROL TYPE	VISUAL AND ELECTRIC
MOUNTING POSITION	IN LINE/VERTICAL
LOAD LOSSES	0,05/0,08bar (all capacities)
ELECTRIC CONTROL	
TYPE OF CURRENT	CONTINUOUS OR ALTERNATE
VOLTAGE	220V MAX
CURRENT	0.2A MAX NON INDUCTIVE LOAD
POWER SWITCHING	6VA MAX

FUNCTIONING

The passage of the fluid from the bottom towards the top moves the cylindrical piston 1 which moves inside the transparent tube 2 defeating the action of the spring 3. The flow passes in turbulent motion, through the space established by the hole of piston 1 in respect of the shaped pin 4. The height reached by piston 1 indicates the reading of the capacity, directly on the graduated scale.

The cursor positioned 6 allows the alignment to the running capacity of the magnetic mass contained by piston 1, with a magnetic switch 5 (reed). The opening of contact takes place when the capacity drops more than 10% below the nominal value or if it increases excessively.



FLUSSOSTATO CON CONTROLLO ELETTRICO FLOW SWITCHES WITH ELECTRIC CONTROL	FLUSSOMETRO SENZA CONTROLLO ELETTRICO FLOW METER WITH OUT ELECTRIC CONTROL	A	B	C	L	PORTATA FLOW REGULATION
7040032		1/4"	1/4"	40	134	0 - 0,5L/1'
7040028	7040043	1/4"	1/4"	40	134	0 - 1L/1'
7040041	7040033	1/4"	1/4"	40	134	0 - 2L/1'
7040039	7040034	1/2"	1/2"	45	134	0 - 4,5L/1'
7040040	7040038	1/2"	1/2"	45	134	0 - 7L/1'
7040029	7040036	1/2"	1/2"	45	134	0 - 10L/1'
7040037	7040035	3/4"	3/4"	50	167	0 - 30L/1'
7040030	7040044	1"	1"	60	201	0 - 60L/1'

WARRANTY

For any defects of construction and material Nexoil guarantees its products for a maximum of 12 months from the date of delivery.

The warranty covers up to a maximum of 18 months in the case in which the installation is performed over the 6 months following the date of delivery.

Parts subject to normal wear and tear are not covered by the warranty.

In case of failure, communicate to Nexoil: defect, product code, serial number (if any), delivery date, installation date, other that may be useful for management reporting.

The Nexoil will provide telephone support or on-site depending on the situation or communicate the return authorization number (RNC) for returning the part. In the latter case the Nexoil reserves the right to choose between repair and replacement.

If the warranty is still valid, the particular will, free of charge, repaired or replaced.

If the products are not found defective, the Nexoil will decide whether to charge the customer for the costs incurred.

Are to be considered excluded from the warranty damage, injury or expense arising from any defect of the product.

The conditions of validity of the product warranty Nexoil are implicitly accepted at the time of purchase of the product.

Canceling warranty

The warranty is considered to be annulled in the following cases:

- The product is damage by improper use, incorrect installation and use other than that intended.
- The product underwent tampering and/or modifications without written permission of Nexoil srl.

NOTE



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