



FLUIDOTEHNIC

DEVICES AND SYSTEMS FOR CENTRAL LUBRICATION

CATALOG OF DEVICES



LUBRICATION TECHNIQUE

CATALOG OF DEVICES

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- FLUIDOTEHNIC's production program is based on its own development. Thanks to that, all the products are the result of the engineering staff work, as well as the quality and skilled workers in manufacturing and installation. Each serial product during the conquest passes through the phase of prototype development, functional tests and check in real operating conditions. Following step is removal of all possible defects and then, based on that, test series is produced. This is how we achieve high quality of manufactured devices. In case of the individual production, after the functional testing, we deliver the product to the customer.
- Since its foundation FLUIDOTEHNIC Ltd. has been continuously investing both in the expansion of commercial building and the purchase of modern equipment for the production, control and techno-economic support. It is located in the industrial zone of Vrnjacka Banja, on a lot size ~ 2ha. It consists several buildings, connected into a functional whole area of 4000 m2. The whole complex is adjusted to the environment- we are taking good care of health, work safety and environmental protection.





- Market research, device development, technical assistance and personnel training free of charge for all our customers is the main task of this service. Many years of experience in the development tasks of hydraulics, pneumatics and lubrication techniques, as well as the latest computer technology guarantee that our customers will get the optimum technical solution. During the development, every device passes precisely defined procedure, starting from making the design concept, followed by manufacturing and testing prototypes and going into production.
- It consists of several facilities and departments: foundry of non-ferrous metals, mechanical drive, locksmith department, installation and technical control. All operations from the casting to the final machining are performed with the universal and software machines. Control and assembly is 100%. When the assembly is finished, each device is being tested on the test stand and on the basis of the results it gets the appropriate certificates and guarantees. On each call of the user, service teams come in as soon as possible, with spare parts and the necessary tools, regardless of whether the equipment is in warranty or out of warranty period.



ELECTRIC CONTROL UNIT



In the serial production there are units for twolines, progressive, single or multilines systems for central lubrication. These electric units perform managing and control of central lubrication system. Management system for lubrication is in manual and automatic mode. Regular mode is automatically, manual mode is selected for setting service action.

Unit has indication, all necessary which is located outside the command board. Over indications may follow the work of individual components of the system (indication allows monitoring of the individual components of the system) and possible errors in the system during work: termination of functioning a pump, pipeline cracking cessation of work distributing valve, dosing distributors etc. Bimetallic switches (in

the single-switch) protect the pumps from overload. Management is performed using PLC (with the appropriate program of the system). Functional and control parameters (timeout, operating time of system, operating time of pumps, control times, etc..) can be changed during operation very simply using the functional panel at the cabinet door. All mentioned parameters can be monitored and changed by the operator's cabin. At the customer's request can be monitored any other parameters or operating mode of system.

With the control unit is supplied original software of equipment manufacturer or the application software in electronic form.

Each control unit may have possibility of extending RS232, RS485 or Ethenert ports, depending on the applied equipment.

Networking is easy using: Modbus, Profibus, Facon, TCP/IP ...

There is a galvanic separation of controller's control signals and executive elements.

In the unit itself are installed components of renowned manufacturers such as: SIEMENS, ABB, OMRON, or other on the customer's request.

Main power supply		3x400/220 VAC; 50 Hz
Controller supply		24 VDC
Measurement of lubricant level (inductive sensor)		ON-OFF
Controller's digital inputs and outputs		24 VDC
Analogue input (grease level, pressure)		current 4 - 20 mA
Work ambient temperature		-5 to +40 °C
Insulation		IP 54
Standards and regulatives		SRPS EN ISO
On customer's request	Measurement of lubricant level	ultrasonic
	Clamps	resistant to vibrations
	Voltage	from 200 VAC to 660 VAC
	Frequency	from 42 Hz to 60 Hz
	Insulation	IP 55
	Ambient temperature	-45 to +40 °C

EC DECLARATION OF CONFORMITY / DECLARATION ON INSTALLATION

DEKLARACIJA O USAGLAŠENOSTI / DEKLARACIJA O UGRADNJI

We hereby declare that the following products

Izjavljujemo da su sledeći uređaji

Electric driven pumps for grase lubrication (Elektromotorne pumpe za podmazivanje mastima)

Power unit for oil lubrication (Elektromotorni uređaj za podmazivanje uljima)

Pneumatic pumps for lubrication (Pneumatske pumpe za podmazivanje mastima)

Two line dosing distributors (Dvolinijski dozatori)

Progressive doser distributors (Progresivni dozatori)

Change-over valves (Hidraulički razvodnici)

Electric driven change-over valves (Elektromotorni razvodnici)

Pressure and flow valves (Ventili pritiska i protoka)

Are designed and produced in accordance with the safety requirements according to the following regulations:

Projektovani i proizvedeni u skladu sa bezbednosnim zahtevima prema sledećim propisima:

Machinery Directive EC/2006/42

(Mašinska direktiva EC/2006/42)

Low voltage directive EC/2014/35

(Niskonaponska direktiva EC/2014/35)

in accordance with the following standards:

i u skladu sa sledećim standardima:

Safety of machinery - General principles for design

- Risk assessment and risk reduction EN ISO 12100:2010

Bezbednost mašina - Opšti principi za projektovanje

- Ocena rizika i smanjenje rizika SRPS ISO 12100:2014

Safety of machinery - Electrical equipment of machines - Part 1: EN 60204-1:2016

Bezbednost mašina - Električna oprema mašina - Deo 1: EN 60204-1:2016

Declaration on installation in the sense of EC Machinery Directive (2006/42/EC) Annex II B

Izjava o ugradnji u skladu sa EC Mašinskom direktivom (2006/42/EC) Anex II B

Product of "FLUIDOTEHNIC" assemble into mechanical devices and equipment. Start-up is not admissible unless it has been verified that the whole equipment, meets the requirements defined in the EC machinery Directive (2006/42/EC)

Proizvod "FLUIDOTEHNIC"-a se ugrađuje u drugu opremu i dodatne uređaje. Pokretanje nije dozvoljeno sve dok i relevantna oprema u koju se ugrađuju ne bude u skladu sa Mašinskom direktivom (2006/42/EC)

The manufacturer undertakes to supply the relevant information of incomplete machine on request to responsible inspector by electronic way. Technical documents of the machine is prepared in accordance with Annex VII, part B Machinery Directive (2006/42/EC)

Proizvođač se obavezuje da će elektronskim putem dostaviti odgovarajuće podatke o delimično završenoj mašini nadležnom inspektor na njegov zahtev. Tehnička dokumentacija je izrađena u skladu sa Anexom 7, deo B Mašinske direktive.

Vrnjačka Banja, 01/02/2017 godine



Šljivić Miroslav, General Manager

The EC Declaration of Conformity is only valid in conjunction with confirmation that the device has been correctly applied, installed, inspected and maintained according to the operating instructions provided. The validity of the declaration will cease in case of any modification and/or supplement not previously approved by "FLUIDOTEHNIC".

Ova deklaracija o usaglašenosti važi samo u slučaju da je uređaj pravilno ugrađen, iskontrolisan i da se koristi i održava u skladu sa uputstvom za rukovanje i održavanje. Važenje izjave prestaje u slučaju bilo kakve modifikacije ili dodatka koji nisu prethodno odobreni od "FLUIDOTEHNIC"-a.



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