



 **FLUIDOTEHNIC**

DEVICES AND SYSTEMS FOR CENTRAL LUBRICATION

CATALOG OF DEVICES

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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.





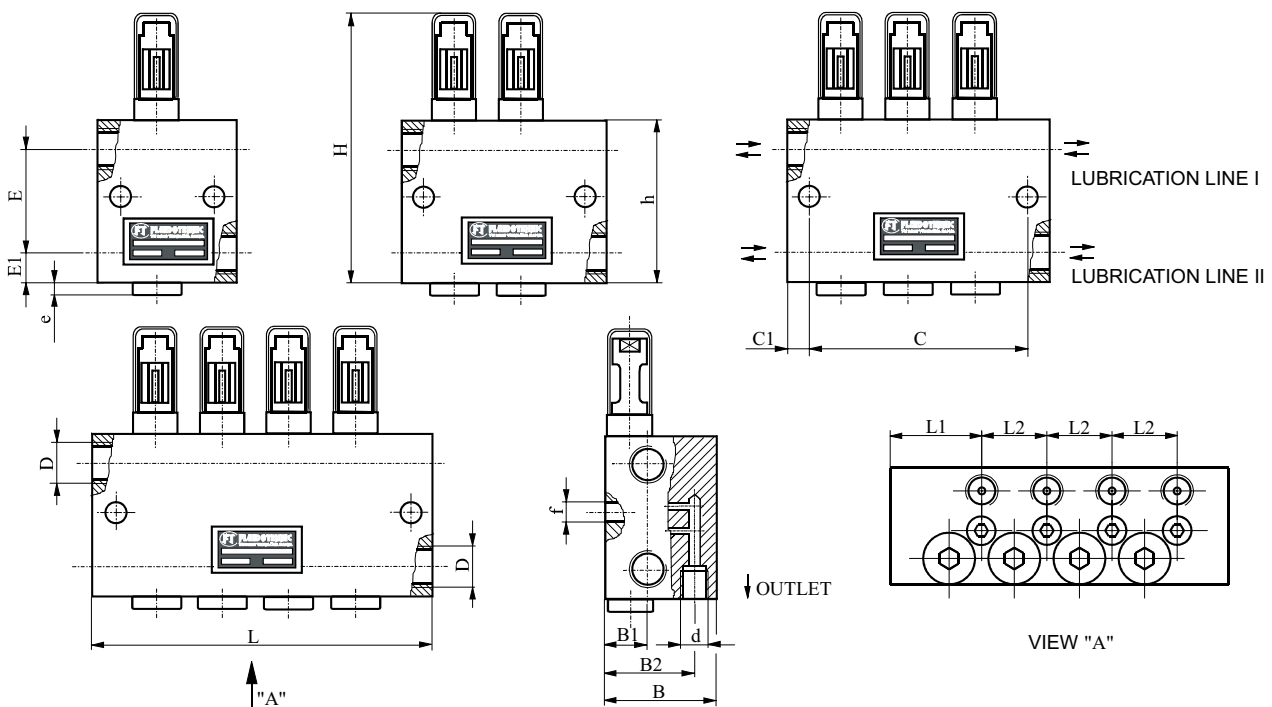
- Market research, device development, technical assistance and personnel training free of charge for all our customers is the main task of this service. Many years of experience in the development tasks of hydraulics, pneumatics and lubrication techniques, as well as the latest computer technology guarantee 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.



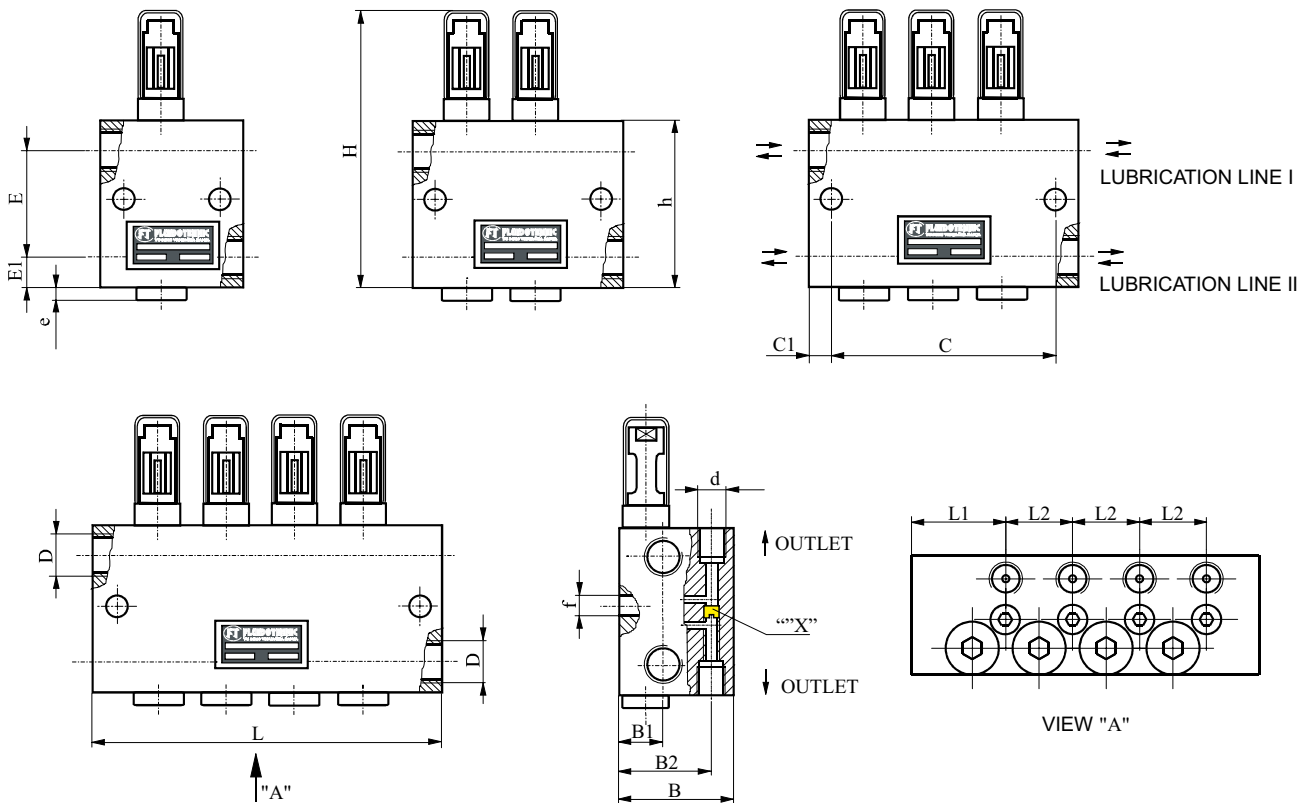
DUAL LINE DOSING DISTRIBUTORS



The dosing distributors are executive devices in two-line automatic and hand operated systems for centralized lubrication. Lubrication is carried out by injection of precisely defined quantity of lubricant under pressure. The quantity of lubricant is adjustable by regulation screw. By unscrew the screw "X" and than montage plug screw in the one of the outputs, on gets a double quantity of lubricant in one lubrication point, and number of outlet ports is reduced. In this case type DD-2 becomes DD-1. Flow regulators bodies are protected by transparent protective caps against dust. On customer request are manufactured dosing distributors with other dosing volume. As required, will be installed inductive sensors, in order to control a lubrication of certain points.



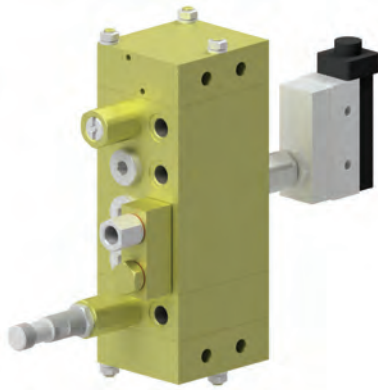
Size	Code	Number of lubrication points	D	d	L	L1	L2	B	B1	B2	H	h	C	C1	f	E	E1	e	Mass (kg)	
2	10-1310	1	G 3/8"	G 1/4"	61	-	-	-	-	-	-	-	41	-	-	-	-	-	1,5	
	10-1320	2			89	25	-	-	-	-	-	-	69	10	9	44	12,5	5	2,2	
	10-1330	3			117	28	45	21	35	113	69	97	10	9	44	12,5	5	2,9		
	10-1340	4			145	-	-	-	-	-	-	-	125	-	-	-	-	-	3,5	
5	10-1410	1			68	-	-	-	-	-	-	-	-	-	48	-	-	-	-	2,4
	10-1420	2			100	30	51	27	41	131	80	80	10	9	55	12,5	5	3,3		
	10-1430	3			132	32	51	27	41	131	80	112	10	9	55	12,5	5	4,3		
	10-1440	4			164	-	-	-	-	-	-	-	144	-	-	-	-	-	5,4	
10	10-1520	1			100	30	51	27	41	131	80	80	10	9	55	12,5	5	3,3		
	10-1540	2			164	64	-	-	-	-	-	-	144	-	-	-	-	-	5,4	
25	10-1610	1	67	42	67	42	56	208	125	0	57	9	97	14	13	4,5				



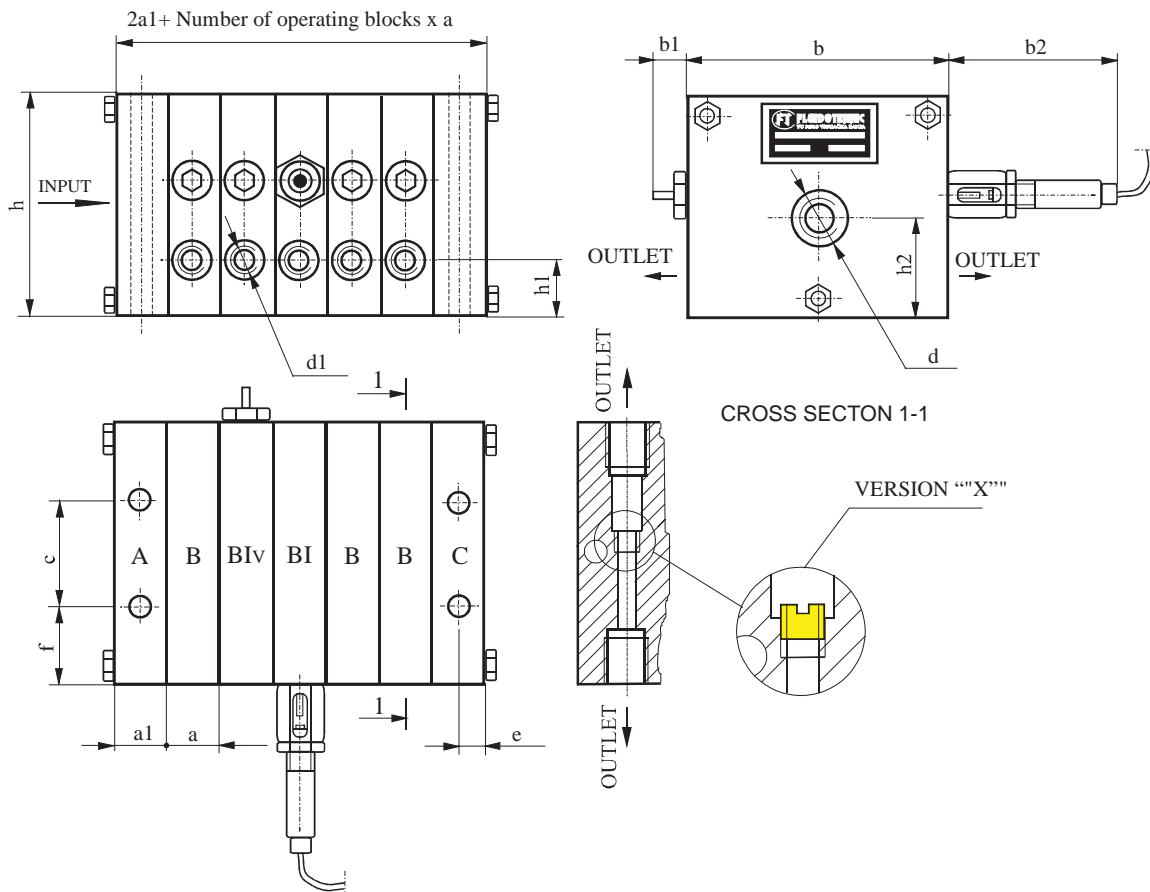
Size	Code	Number of lubrication points	D	d	L	L1	L2	B	B1	B2	H	h	C	C1	f	E	E1	e	Mass (kg)		
2	10-1310-2	2	G 3/8"	G 1/4"	61	-	-	-	-	-	-	-	41	-	-	-	-	-	1,5		
	10-1320-2	4			89	25	-	45	21	35	113	69	69	10	9	44	12,5	5	2,2		
	10-1330-2	6			117	-	28	-	-	-	-	-	97	-	-	-	-	-	-	2,9	
	10-1340-2	8			145	-	-	-	-	-	-	-	125	-	-	-	-	-	-	3,5	
5	10-1410-2	2			68	-	-	-	-	-	-	-	-	-	48	-	-	-	-	-	2,4
	10-1420-2	4			100	30	-	51	27	41	131	80	80	10	9	55	12,5	5	-	3,3	
	10-1430-2	6			132	-	32	-	-	-	-	-	112	-	-	-	-	-	-	4,3	
	10-1440-2	8			164	-	-	-	-	-	-	-	144	-	-	-	-	-	-	5,4	
10	10-1520-2	2			100	30	-	51	27	41	131	80	80	10	9	55	12,5	5	-	3,3	
	10-1540-2	4			164	-	64	-	-	-	-	-	144	-	-	-	-	-	-	5,4	
25	10-1610-2	2	67	42	-	67	42	56	208	125	0	57	9	97	14	13	-	4,5			

Size		2	5	10	25
Fluid	Oil viscosity	> 13 mm ² /s			
	Grease	NLGI ≤3			
	Temperature	-30 ; + 80 °C			
Working pressure		10 - 400 bar			
Adjustment range		0,5 - 2 cm ³ /cycle	1,5 - 5 cm ³ /cycle	3,0 - 10 cm ³ /cycle	5,0 - 25 cm ³ /cycle

PROGRESSIVE DOSING DISTRIBUTORS



The progressive doser distributors are executive devices in progressive automatic and hand operated systems for centralized lubrication. The distributor is an assembly of several elements connected to each other to form a unit. These elements are: inlet block (A), operating blocks (B) and final block (C). The number of operating blocks can be from min. 3 to max. 12. A distributor operation can be monitored by installing one operation block with visual indicator (BIv) or inductive transducer (BI) which provides electric control as well as visual indication.

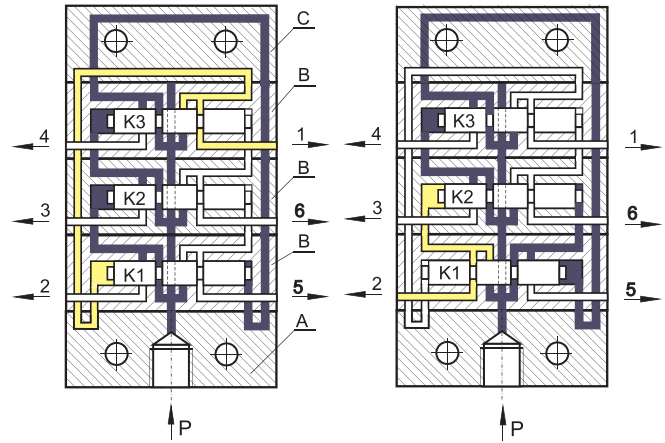


Type		PD1	PD2
Fluid	Oil viscosity	>13 mm ² /s	
	Grease	NLGI ≤3	
	Temperature	-30 ; +80 °C	
Working pressure		10 - 250 bar	10 - 350 bar
Flow	Oil	500 cm ³ /min	2000 cm ³ /min
	Grease	50 cm ³ /min	200 cm ³ /min
Inductive transducer	Voltage	12 - 24 V DC	
	Current	200 mA	
	Type	NO PNP	
Mass of the block		0,4 kg	0,9 kg

Type	d	d1	a	a1	b	b1	b2	c	f	h	h1	h2	e
PD1	G 1/4"	G 1/8"	22	20	58	12	100	22	18	52	12	22	10
PD2	G 3/8"	G 1/4"	26	25	84	12	100	34	25	65	16	28	12,5

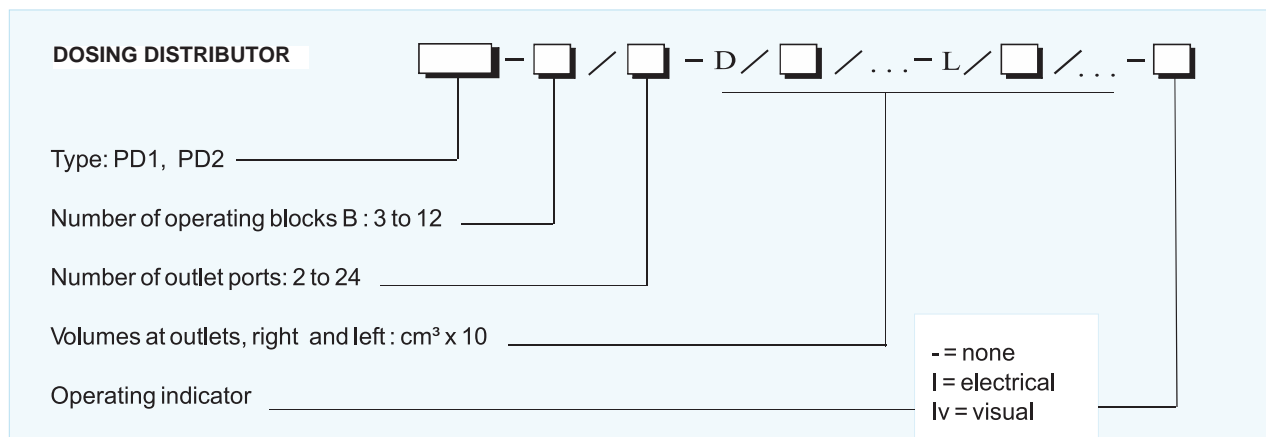
OPERATION MODE

Operation mode is explained on three-element distributor. Pressurized lubricant supplied through the port P is passing through the blocks B and C and pushing the spool K1 to the left. The lubricant is discharged through the outlet 1. Then the spool K2 is actuated and in the same way discharges lubricant through the outlet 2. This cycle is proceeding until the lubricant is supplied to distributor. There are various possibilities of combining outlet volumes. Removing the screw "X" and plugging an outlet port results in duplicating the lubricant quantity on the opposite outlet port. Interconnecting the neighboring blocks results in summation of their outlet volumes.



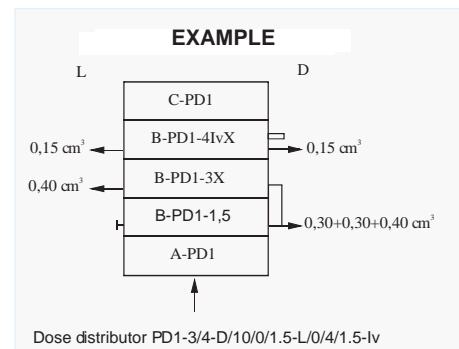
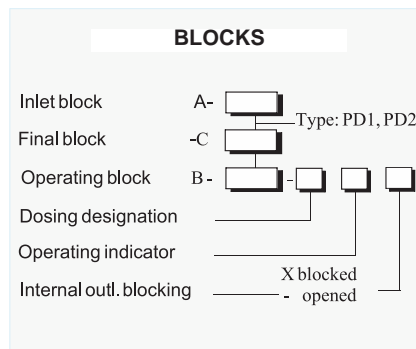
ORDERING CODE

According to the request, a designation is formed for a complete distributor or individual blocks only. The request is to include all data as follows:



NOTE: Installing interconnection results in the volume which is the total of individual volumes. The flow rate is equal to zero if the screw "X" is removed and an outlet port is plugged. Complete volume is directed through the port on the opposite side.

Dosing volume for working blocks "B"			
PD1		PD2	
Code	cm ³ /stroke	Code	cm ³ /stroke
1,5	0,15	3,5	0,35
2	0,2	5	0,5
2,5	0,25	8	0,8
3	0,3	10	1
4	0,4		





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Reg. broj: 11506568939
Br. Reg. Upisa: 1-14429-00



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 u 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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