



 **FLUIDOTEHNIC**

# DEVICES AND SYSTEMS FOR CENTRAL LUBRICATION

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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.

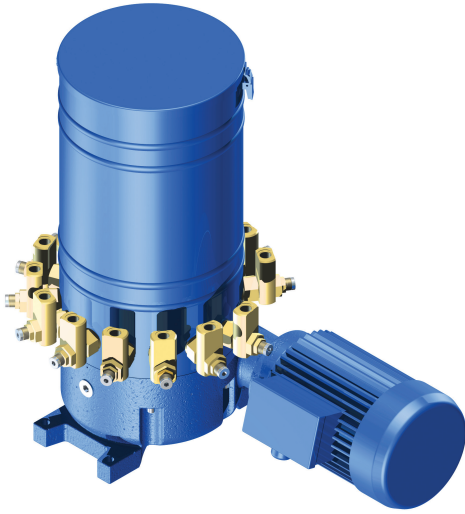




- Market research, device development, technical assistance and personnel training free of charge for all our customers is the main task of this service. Many years of experience in the development tasks of hydraulics, pneumatics and lubrication techniques, as well as the latest computer technology guarantee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



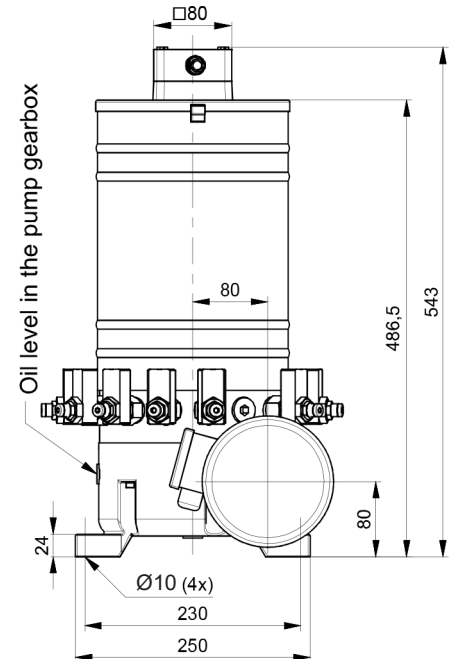
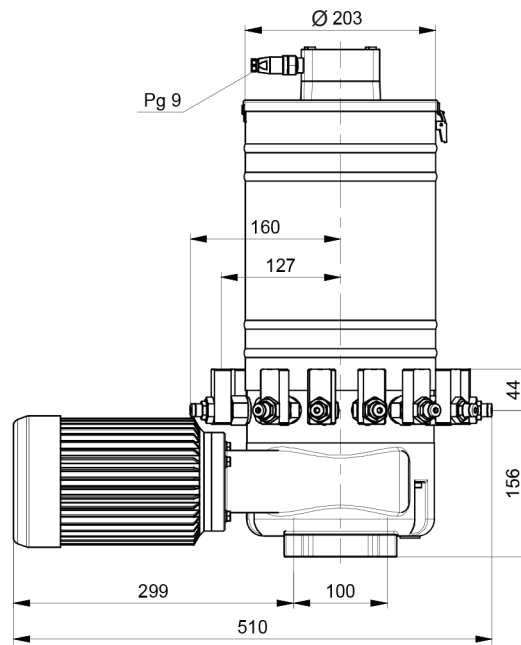
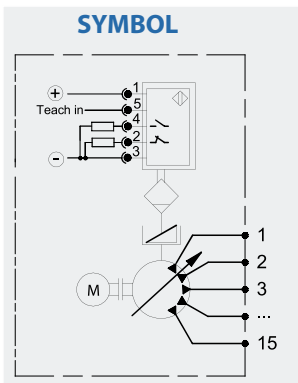
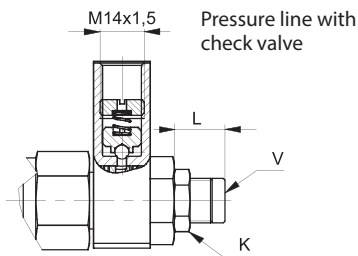
# ELECTRIC MOTOR MULTILINE PUMPS



This variable displacement pump is applied for oil and grease lubrication in multiline centralized systems. Displacement of each port can be adjusted separately from minimum to maximum value. It is possible to cut out some of the ports if it is necessary. The number of the ports (from 1 to 15 or 1 to 16 – depending on the variant) should be specified in order. The tank volume in standard execution is 10 dm<sup>3</sup>, but other values are also available on request.

Ordering example for the pump with eight outlet ports and with ultrasonic indicator of lubricant level for flow 1,4 cm<sup>3</sup>/min per port is:

**10-2500S -AU/8**

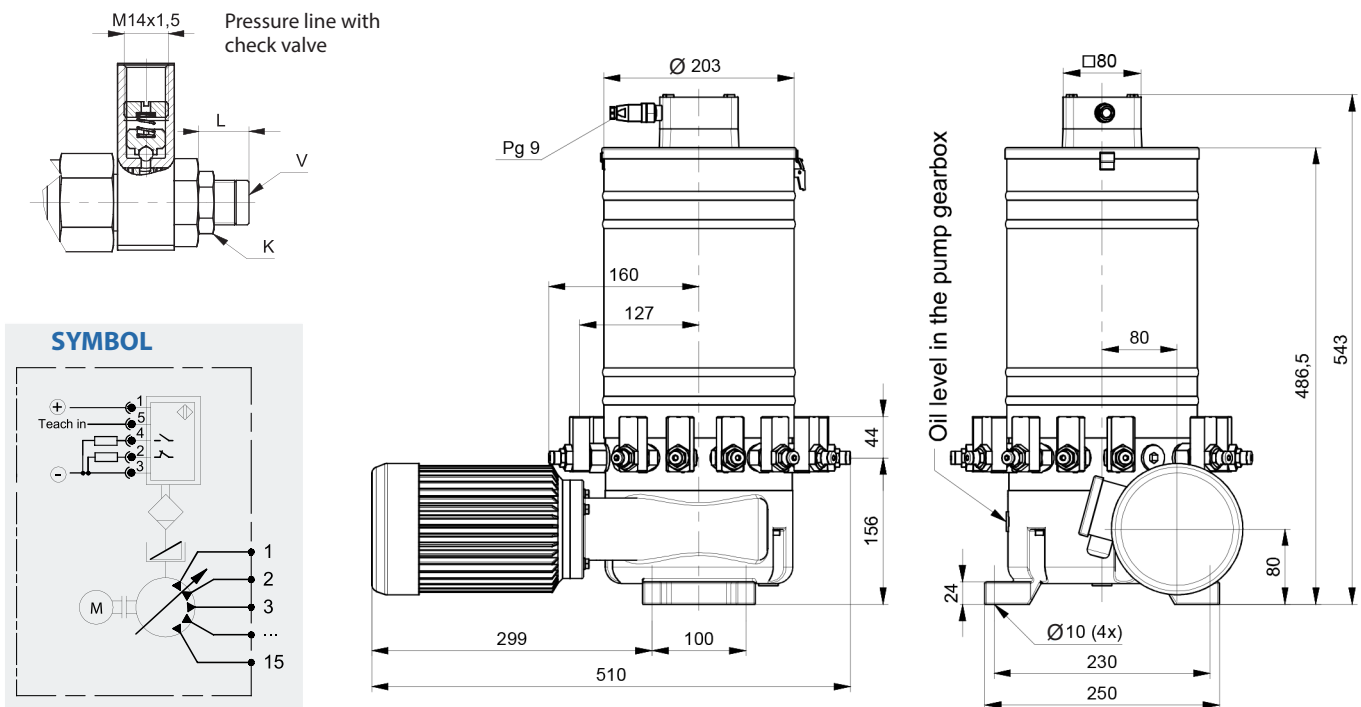


Code	Flow per piston stroke	Flow per outlet port	Max pressure	No. of outlet ports	Fluid			Gear box ratio	Electric motor			Ultrasonic level indicator AU	Tank volume	Mass
	(adjustable)	(adjustable)			Grease	Oil visc.	Temp.		Power	Rated speed	Voltage			
	cm <sup>3</sup>	cm <sup>3</sup> /min			NLGI	mm <sup>2</sup> /s	°C		kW	rpm	V			
10 - 2500		0,5 - 2,2						70:1						
10 - 2500S	0,04 - 0,16	0,35 - 1,4	350	1-15	≤3	>13	-25 ; +80	112:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	10	~29
10 - 2500L		0,85 - 3,4						70:1	0,37	1460				

The pump is factory adjusted to the maximum flow so the dimension "L" is 16mm, i.e. 0,16 cm<sup>3</sup> per piston stroke. By loosening nut "K" and turning the adjusting screw „V" for 360 clock wise ( "L" is reduced for 1mm), the flow rate decreases to 0,025 cm<sup>3</sup> per piston stroke. Minimum flow rate corresponds the "L" value of 12 mm. The flow is reduced to zero if the dimension "L" is 9 mm. After adjusting lock the safety nut "K" again. The outlet ports can be oriented upward or downward. Pump with lubricant level indication have "AU" in code. Ultrasonic level indicator indicate 3 lubricant level in the tank, depending on customer requirements. For lubrication of gear unit of the pump use oil SAE 80. The oil level must be equal to down edge of filling port "A".

Ordering example for the pump with sixteen outlet ports and with ultrasonic indicator of lubricant level for flow 1,4 cm<sup>3</sup>/min per port is:

## 10-6000S -AU/16



Code	Flow per piston stroke	Flow per outlet port	Max pressure	No. of outlet ports	Fluid			Electric motor			Ultrasonic level indicator AU	Tank volume	Mass	
	(adjustable)	(adjustable)			Grease	Oil visc.	Temp.	Gear box ratio	Power	Rated speed				Voltage
	cm <sup>3</sup>	cm <sup>3</sup> /min			NLGI	mm <sup>2</sup> /s	°C		kW	rpm				V
10 - 6000		0,5 - 2,2						70:1						
10 - 6000S	0,04 - 0,16	0,35 - 1,4	350	1-16	≤3	>13	-25 ; +80	112:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	10	~30
10 - 6000L		0,85 - 3,4						70:1	0,37	1460				

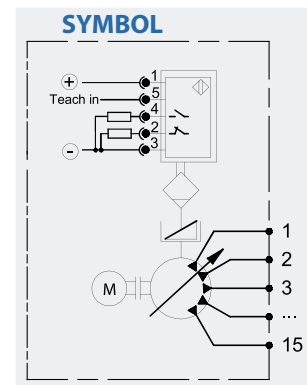
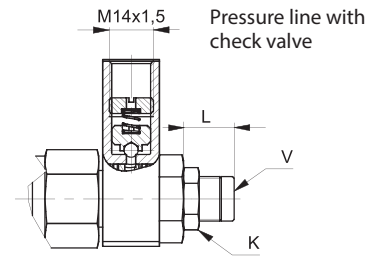
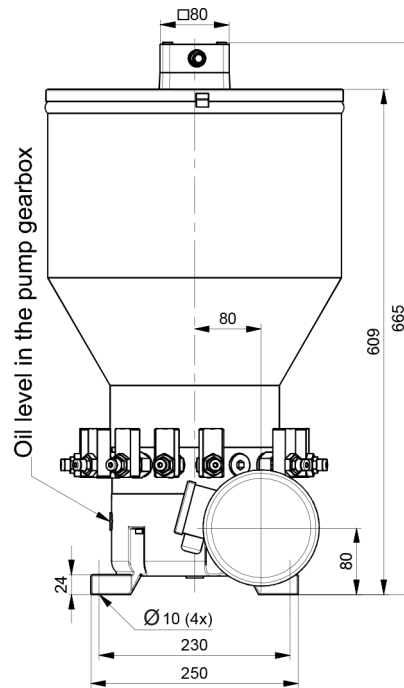
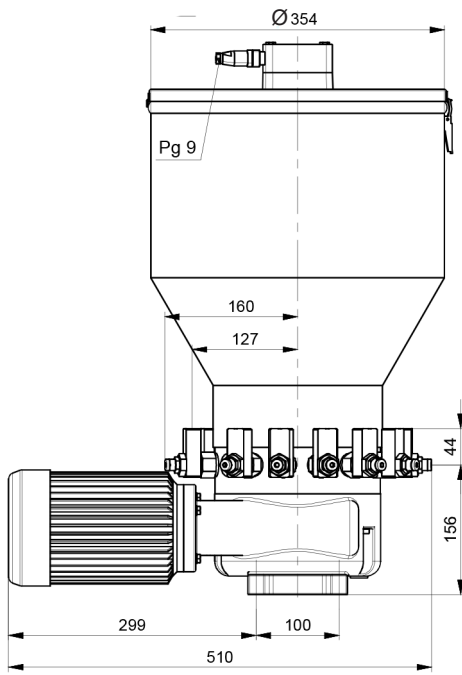
# ELECTRIC MOTOR MULTILINE PUMPS



This variable displacement pump is applied for oil and grease lubrication in multiline centralized systems. Displacement of each port can be adjusted separately from minimum to maximum value. It is possible to cut out some of the ports if it is necessary. The number of the ports (from 1 to 15 or 1 to 16 – depending on the variant) should be specified in order. The tank volume in standard execution is 30 dm<sup>3</sup>, but other values are also available on request.

Ordering example for the pump with twelve outlet ports and with ultrasonic indicator of lubricant level for flow 3,4 cm<sup>3</sup>/min per port is:

## 10-2500L-1 -AU/12



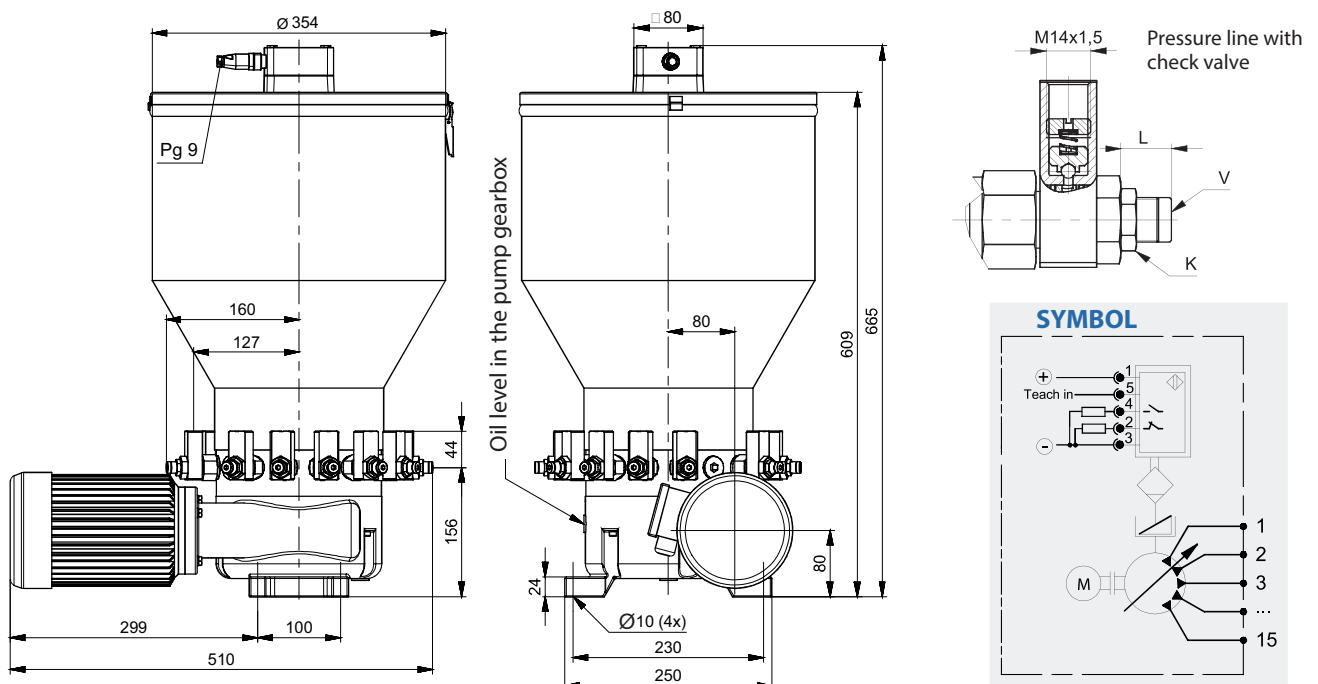
Code	Flow per piston stroke	Flow per outlet port	Max pressure	No. of outlet ports	Fluid			Electric motor			Ultrasonic level indicator AU	Tank volume	Mass	
	(adjustable)	(adjustable)			Grease	Oil visc.	Temp.	Gear box ratio	Power	Rated speed				Voltage
	cm <sup>3</sup>	cm <sup>3</sup> /min			NLGI	mm <sup>2</sup> /s	°C		kW	rpm				V
10 - 2500-1		0,5 - 2,2						70:1						
10 - 2500S-1	0,04 - 0,16	0,35 - 1,4	350	1-15	≤3	>13	-25 ; +80	112:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	30	~33
10 - 2500L-1		0,85 - 3,4						70:1	0,37	1460				



The pump is factory adjusted to the maximum flow so the dimension "L" is 16mm, i.e. 0,16 cm<sup>3</sup> per piston stroke. By loosening nut "K" and turning the adjusting screw „V" for 360 clock wise ( "L" is reduced for 1mm), the flow rate decreases to 0,025 cm<sup>3</sup> per piston stroke. Minimum flow rate corresponds the "L" value of 12 mm. The flow is reduced to zero if the dimension "L" is 9 mm. After adjusting lock the safety nut "K" again. The outlet ports can be oriented upward or downward. Pump with lubricant level indication have "AU" in code. Ultrasonic level indicator indicate 3 lubricant level in the tank, depending on customer requirements. For lubrication of gear unit of the pump use oil SAE 80. The oil level must be equal to down edge of filling port "A".

Ordering example for the pump with sixteen outlet ports and with ultrasonic indicator of lubricant level for flow 3,4 cm<sup>3</sup>/min per port is:

## 10-6000L-1 -AU/16



Code	Flow per piston stroke	Flow per outlet port	Max pressure	No. of outlet ports	Fluid			Gear box ratio	Electric motor			Ultrasonic level indicator AU	Tank volume	Mass
	(adjustable)	(adjustable)			Grease	Oil visc.	Temp.		Power	Rated speed	Voltage			
	cm <sup>3</sup>	cm <sup>3</sup> /min			NLGI	mm <sup>2</sup> /s	°C		kW	rpm	V			
10 - 6000-1	0,04 - 0,16	0,5 - 2,2	350	1-16	≤3	>13	-25; +80	70:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	30	~33
10 - 6000S-1		0,35 - 1,4												
10 - 6000L-1		0,85 - 3,4												

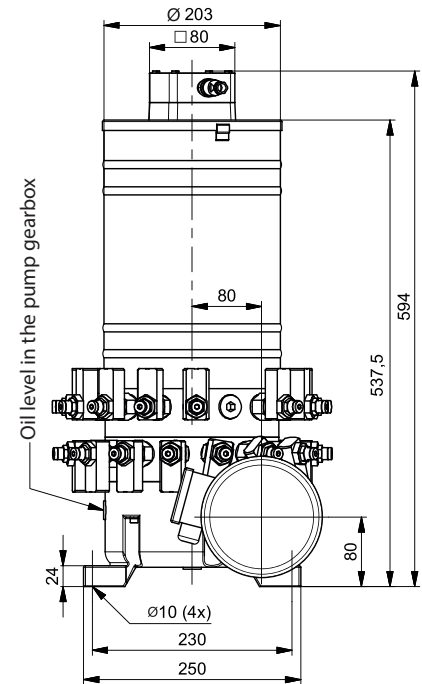
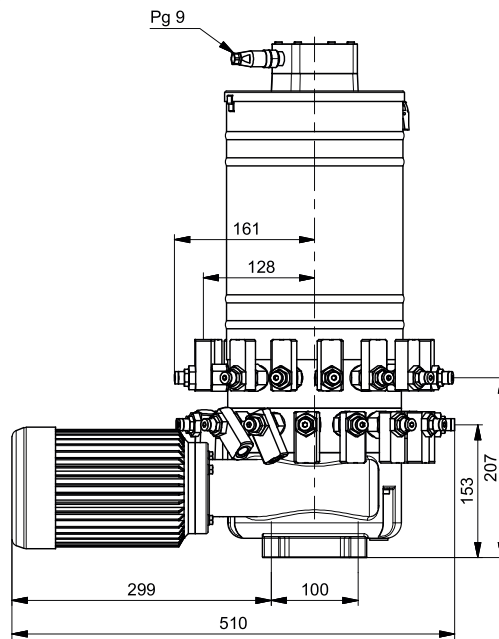
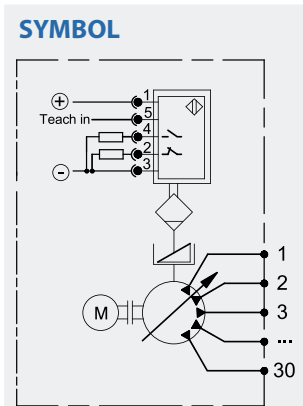
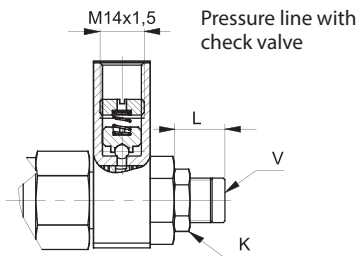
# ELECTRIC MOTOR MULTILINE PUMPS



This variable displacement pump is applied for oil and grease lubrication in multiline centralized systems. Displacement of each port can be adjusted separately from minimum to maximum value. It is possible to cut out some of the ports if it is necessary. The number of the ports (from 1 to 30 or 1 to 32 – depending on the variant) should be specified in order. The tank volume in standard execution is 30 dm<sup>3</sup>, but other values are also available on request.

Ordering example for the pump with 30 outlet ports and with ultrasonic indicator of lubricant level for flow 1,4 cm<sup>3</sup>/min per port is:

## 10-2550S -AU/30

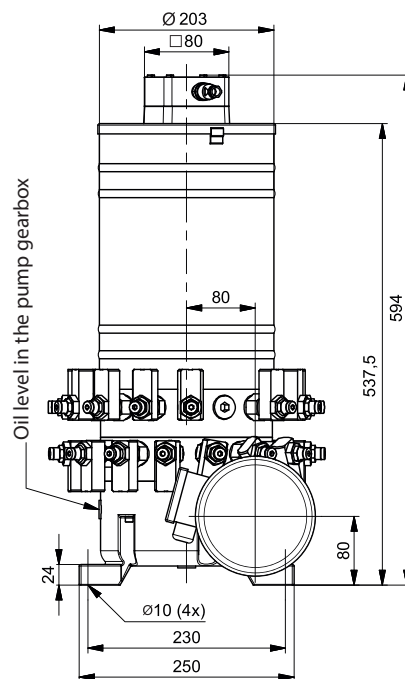
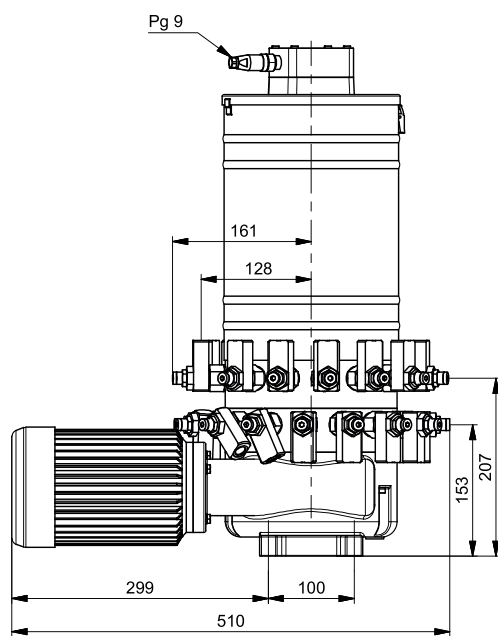
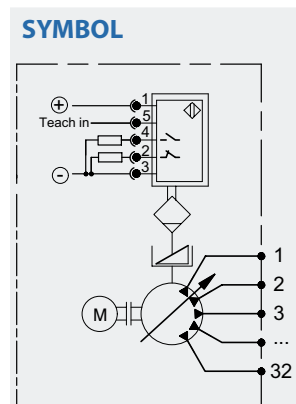
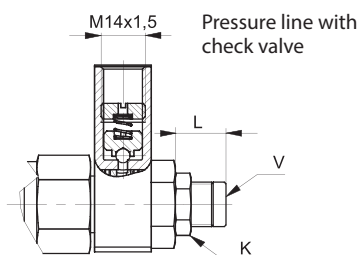


Code	Flow per piston stroke	Flow per outlet port	Max pressure	No. of outlet ports	Fluid			Gear box ratio	Electric motor			Ultrasonic level indicator AU	Tank volume	Mass
	(adjustable)	(adjustable)			Grease	Oil visc.	Temp.		Power	Rated speed	Voltage			
	cm <sup>3</sup>	cm <sup>3</sup> /min			NLGI	mm <sup>2</sup> /s	°C		kW	rpm	V			
10 - 2550		0,5 - 2,2						70:1						
10 - 2550S	0,04 - 0,16	0,35 - 1,4	350	1-30	≤3	>13	-25 ; +80	112:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	10	~36
10 - 2550L		0,85 - 3,4						70:1	0,37	1460				

The pump is factory adjusted to the maximum flow so the dimension "L" is 16mm, i.e. 0,16 cm<sup>3</sup> per piston stroke. By loosening nut "K" and turning the adjusting screw „V" for 360 clock wise ( "L" is reduced for 1mm), the flow rate decreases to 0,025 cm<sup>3</sup> per piston stroke. Minimum flow rate corresponds the "L" value of 12 mm. The flow is reduced to zero if the dimension "L" is 9 mm. After adjusting lock the safety nut "K" again. The outlet ports can be oriented upward or downward. Pump with lubricant level indication have "AU" in code. Ultrasonic level indicator indicate 3 lubricant level in the tank, depending on customer requirements. For lubrication of gear unit of the pump use oil SAE 80. The oil level must be equal to down edge of filling port "A".

Ordering example for the pump with 32 outlet ports and with ultrasonic indicator of lubricant level for flow 1,4 cm<sup>3</sup>/min per port is:

## 10-6050S -AU/32



Code	Flow per piston stroke (adjustable) cm <sup>3</sup>	Flow per outlet port (adjustable) cm <sup>3</sup> /min	Max pressure bar	No. of outlet ports	Fluid			Gear box ratio	Electric motor			Ultrasonic level indicator AU	Tank volume dm <sup>3</sup>	Mass kg
					Grease	Oil visc.	Temp.		Power	Rated speed	Voltage			
					NLGI	mm <sup>2</sup> /s	°C		kW	rpm	V			
10-6050		0,5 - 2,2						70:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	10	~36
10-6050S	0,04 - 0,16	0,35 - 1,4	350	1-32	≤3	>13	-25 ; +80	112:1						
10-6050L		0,85 - 3,4						70:1	0,37	1460				

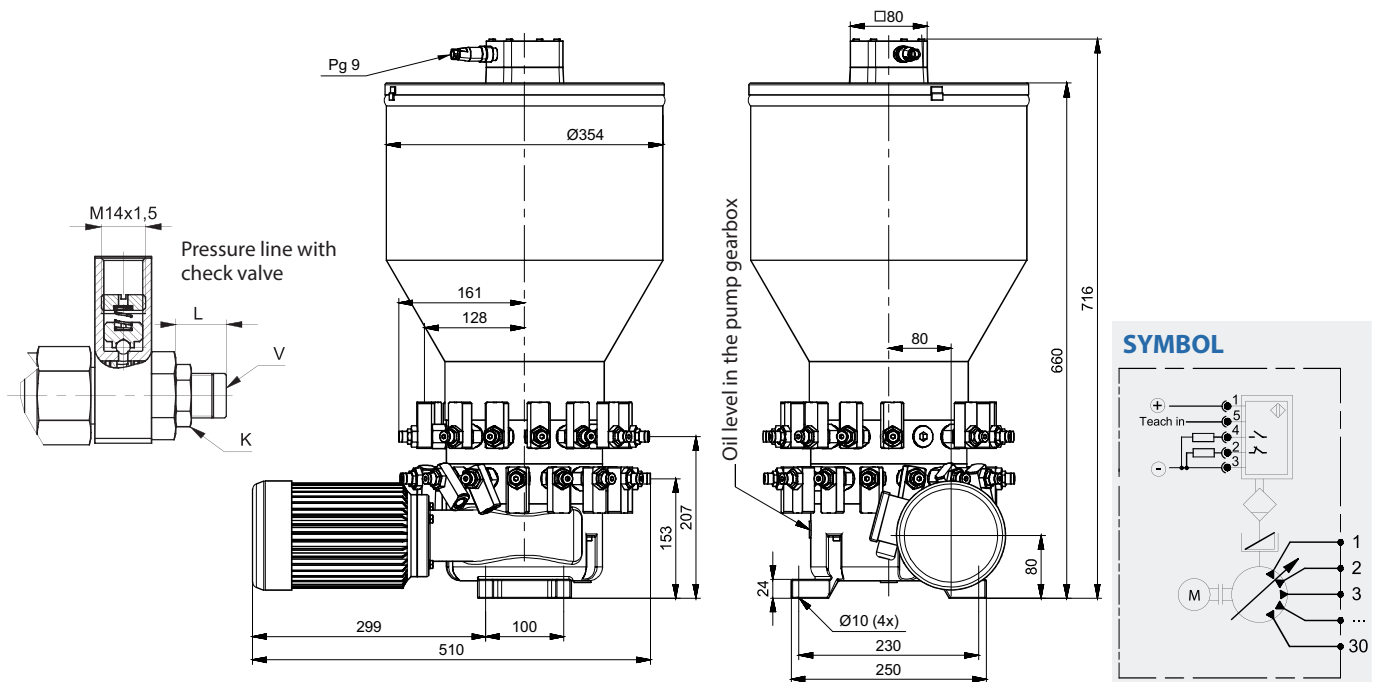
# ELECTRIC MOTOR MULTILINE PUMPS



This variable displacement pump is applied for oil and grease lubrication in multiline centralized systems. Displacement of each port can be adjusted separately from minimum to maximum value. It is possible to cut out some of the ports if it is necessary. The number of the ports (from 1 to 30 or 1 to 32 – depending on the variant) should be specified in order. The tank volume in standard execution is 30 dm<sup>3</sup>, but other values are also available on request.

Ordering example for the pump with 18 outlet ports and with ultrasonic indicator of lubricant level for flow 3,4 cm<sup>3</sup>/min per port is:

**10-2550L-1 -AU/18**

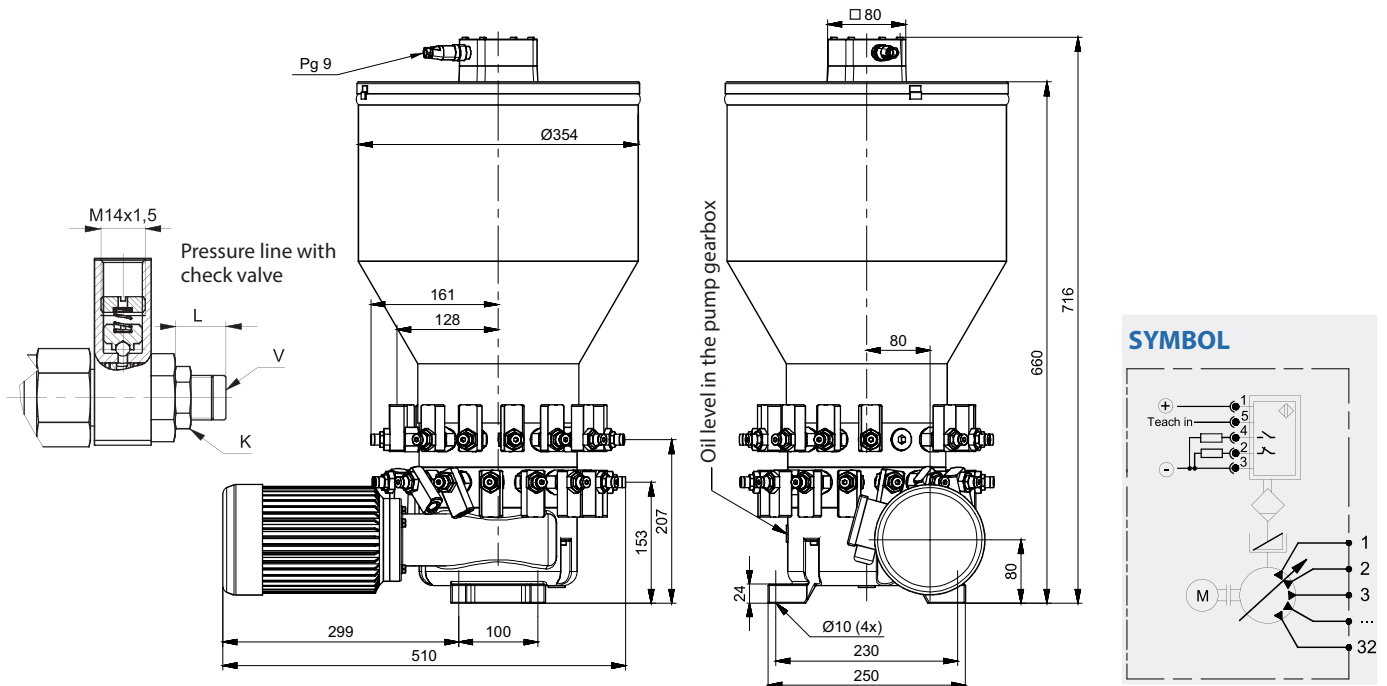


Code	Flow per piston stroke	Flow per outlet port	Max pressure	No. of outlet ports	Fluid			Electric motor			Ultrasonic level indicator AU	Tank volume	Mass	
	(adjustable)	(adjustable)			Grease	Oil visc.	Temp.	Gear box ratio	Power	Rated speed				Voltage
	cm <sup>3</sup>	cm <sup>3</sup> /min			NLGI	mm <sup>2</sup> /s	°C		kW	rpm				V
10 - 2550-1		0,5 - 2,2						70:1						
10 - 2550S-1	0,04 - 0,16	0,35 - 1,4	350	1-30	≤3	>13	-25 ; +80	112:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	30	~42
10 - 2550L-1		0,85 - 3,4						70:1	0,37	1460				

The pump is factory adjusted to the maximum flow so the dimension "L" is 16mm, i.e. 0,16 cm<sup>3</sup> per piston stroke. By loosening nut "K" and turning the adjusting screw „V“ for 360 clock wise ( "L" is reduced for 1mm), the flow rate decreases to 0,025 cm<sup>3</sup> per piston stroke. Minimum flow rate corresponds the "L" value of 12 mm. The flow is reduced to zero if the dimension "L" is 9 mm. After adjusting lock the safety nut "K" again. The outlet ports can be oriented upward or downward. Pump with lubricant level indication have "AU" in code. Ultrasonic level indicator indicate 3 lubricant level in the tank, depending on customer requirements. For lubrication of gear unit of the pump use oil SAE 80. The oil level must be equal to down edge of filling port "A".

Ordering example for the pump with 18 outlet ports and with ultrasonic indicator of lubricant level for flow 3,4 cm<sup>3</sup>/min per port is:

## 10-6050L-1 -AU/18



Code	Flow per piston stroke	Flow per outlet port	Max pressure	No. of outlet ports	Fluid			Electric motor			Ultrasonic level indicator AU	Tank volume	Mass	
	(adjustable)	(adjustable)			Grease	Oil visc.	Temp.	Gear box ratio	Power	Rated speed				Voltage
	cm <sup>3</sup>	cm <sup>3</sup> /min			NLGI	mm <sup>2</sup> /s	°C		kW	rpm				V
10 - 6050-1		0,5 - 2,2						70:1	0,25	980	3x400v 50Hz	10 to 30V 200 mA 2xPNP NO / NC	30	~43
10 - 6050S-1	0,04 - 0,16	0,35 - 1,4	350	1-32	≤3	>13	-25 ; +80	112:1						
10 - 6050L-1		0,85 - 3,4						70:1	0,37	1460				



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Šifra delatnosti: 2822  
PIB: 100918689  
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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02/2018