

Product description
Electric
Lubrication pump
Dynamis Maxx

## **APPLICATION**

The DYNAMIS MAXX pump was designed and developed to serve as a multi-function automatic lubricant pump. Due to its compact size and modular design, the pump can easily be modified for use in wind turbine power stations, general industry, commercial vehicle and spraying applications.



## PRODUCT CHARACTERISTICS

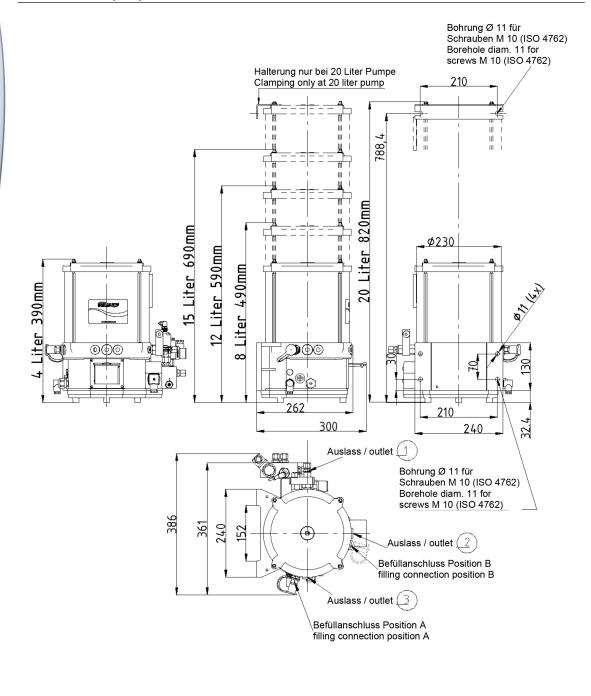
- Pump for single-line, progressive and spray systems in wind power stations and for industrial applications
- Lubricant: grease, liquid grease up to NLGI class 2, Oil from 68 cSt
- Discharge pressure max. 160 and 300 bar
- Internal electric control (optional)
- Max. 16 outlets with flanged progressive distributor (optional)
- Filling connection
- Discharge volume: 2.9 cm<sup>3</sup>/min per pump element

#### **ADVANTAGES**

- easy installation with re-integrated distributor and control
- · easy monitoring of all functions
- robust and reliable (housing made of aluminium) even when used in vertically rotating systems
- Add-on system for various applications
- high level of corrosion resistance due to powder and zinc-nickel coating
- energy-saving



## **DIMENSIONS (mm)**



2



## **DESIGN**

The unit consists of a pump housing (1), a reservoir (2), a guide rod module with spring loaded piston (3), gear motor module (4) and a drive shaft module (5). A compact electronic control module (6) is optional. A filling junction (7) is provided. Adaption of the unit for a variety of applications is accomplished by means of a connection module (8) consisting of a base plate and one or two pressure relief valves.

A proximity sensor (9), located on the top side of the housing, provides a signal to the control just prior to the follower piston reaching its low end position; (minimum filling level). By varying the modules, the pump may be utilized with internal or external progressive distributor(s), single-line injectors with electric reversing, or in spray lubrication applications.

Many combinations are possible through mix and match utilization of various functional plates, pump elements and pressure relief valves; making this an extensively flexible modular system.

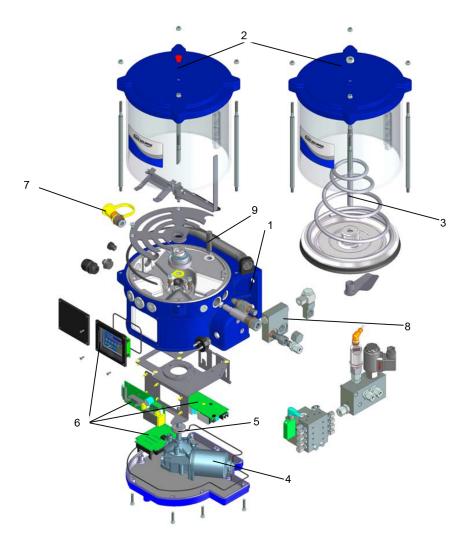


Fig 1 (Pump design)



#### SYSTEM VERSIONS AND EXAMPLES

#### Pump version with free outlet

In this version the lubricating points are supplied from one, two or three pump elements. The pump elements can also be combined to one outlet. The pump elements can be equipped individually with one pressure-relief valve each or when combined together with just one common pressure-relief valve. The maximum pressure can be set to 160 or 300 bar. The pump version with a free outlet (outlets) can be used e.g. for spraying lubrication or when externally positioned progressive distributors are used.



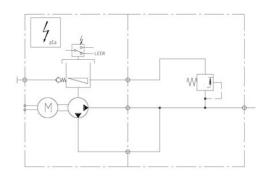


Fig. 2 (pump version with free outlet)

However, it is also possible to arrange for the individual discharge volumes to be delivered separately and to use separate pressure relief valves for setting maximum pressures.

The free outlet pump version quite suitable for use with externally mounted progressive distributors or in a variety of spraying applications.

#### Pump version for progressive systems (integrated progressive distributor)

In the pump variant with an integrated progressive distributor the volumes fed from one, two or three pump elements are brought together into the functional plate and protected by means of a common pressure-relief valve. All familiar versions of the PVB progressive distributor can be used. The proper functioning of the progressive distributor is monitored by means of a proximity sensor. These signals can be processed by the pump control. It is possible to use angular connection screw joints with a non-return valve.



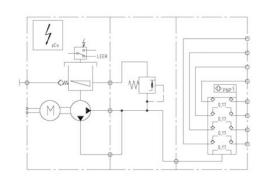


Fig. 3 (pump version with progressive distributor integrated in the connection module)

Progressive distributor function is monitored through use of a proximity sensor (22). Signals generated are also processed by the controller. When necessary, it is possible to use angular connection screw joints with a non-return valve.



## SYSTEM VERSIONS AND EXAMPLES (continued)

#### Pump version for progressive systems (externally located progressive distributor)

In the pump variant for externally located progressive distributors, one, two or three pump elements can be connected individually or combined (for larger quantities of lubricant) to up to two external lubricant distributors. A pressure-relief valve (item 23, 160 bar and 300 bar maximum pressure) can be located in each pump element. If the set pressure is exceeded, the pressure relief valve opens and the lubricant is diverted directly back into the pump chamber.

The monitoring signal from one or two external distributors can be evaluated in the pump control in the Dynamis Maxx.

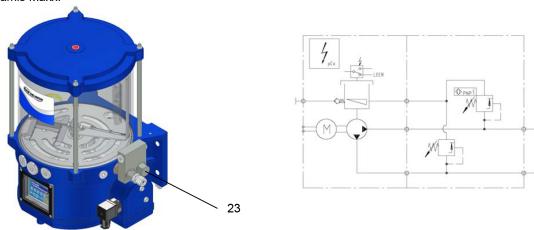


Fig. 4 (Pump version with externally connectable progressive distributors)

#### Pump design for single line systems

In the pump variant for single-line systems, one, two or three pump elements are brought together and protected by means of a pressure-relief valve (maximum pressure 160 or 300 bar). The lubricant is then conveyed into a functional plate (24), into which a 3/2-way solenoid valve (25) and a pressure switch are screwed in. The pressure switch (26) has two separately set switching points for controlling the process. The main lubricant feeding line to a downstream single-line distributor is switched over to pressure relief by the 3/2-way solenoid valve. A further pressure relief valve (27) is screwed into the return line in the functional plate and this maintains a residual pressure and accordingly prevents the main line emptying.

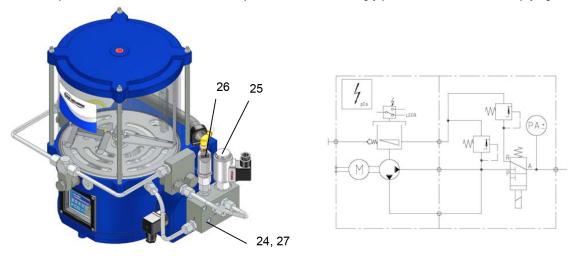


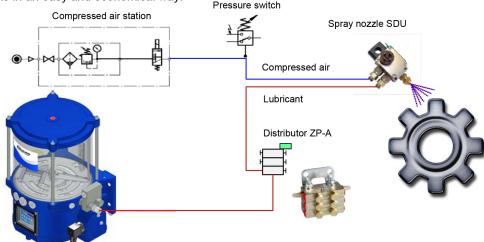
Fig 5 (Version for single-line system with electric reversing gear)



## SYSTEM VERSIONS AND EXAMPLES (continued)

## Example of an application use with the SDU spray nozzle

In the system version of free outlet with an external progressive distributor (progressive system), another possible application is a combination with the SDU spray nozzle. The compact construction of the Dynamis Maxx lubricant pump makes it possible to spray onto the lubricating pinions' drive pinions and tooth flanks in an easy and economical way.



A. PUMP TYPE	Code
	DYX
B. LUBRICATION SYSTEM	Code
Multi-line / version with free outlet (outlets)	ML
Version for single line system	*
Version for progressive system	*
Version for spray lubrication system	*
Version for air-oil system	*
* is determined by system selection of the price list	
C. REVISION	Code
Status A	Α
D. VERSION OF PUMP ELEMENT 1	Code
without pump element	0
with pump element, without relief valve	1
with pump element, with relief valve 160 bar	2
with pump element, with relief valve 300 bar	2 3
with pump element, with relief valve; connected with other pump elements	4
with pump element, with relief valve 160 bar; connected with other pump elements	5
with pump element, with relief valve 300 bar; connected with other pump elements	6
man paring cicinotia, man rollor varvo coc bar, cominocida man canor paring cicinotid	•



without pump element with out relief valve with pump element, with relief valve 300 bar with pump element, with relief valve 300 bar with pump element, with relief valve 300 bar with pump element, without relief valve; connected with pump element 1 4 with pump element, without relief valve; connected with pump element 1 + 3 5  F. VERSION OF PUMP ELEMENT 3 5  F. VERSION OF PUMP ELEMENT 3 Code without pump element 1 + 3 5  F. VERSION OF PUMP ELEMENT 3 5  F. VERSION OF PUMP ELEMENT 3 Code without pump element 1 0 0 with pump element, with relief valve 160 bar 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	E. VERSION OF PUMP ELEMENT 2	Code
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with pump element, with relief valve 300 bar with pump element, with relief valve 300 bar with pump element, without relief valve; connected with pump element 1 4 with pump element, without relief valve; connected with pump element 1 + 3 5  F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 3 5   F. VERSION OF PUMP ELEMENT 1 4 4 With pump element 1 + 3 5   F. VERSION OF PUMP ELEMENT 1 4 4 With pump element 1 + 3 5   F. VERSION OF PUMP ELEMENT 1 5   G. VERSION OF PUMP ELEMENT 1 5   G. VERSION OF PUMP ELEMENT 1 5  B.		
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F. VERSION OF PUMP ELEMENT 3  with pump element, without relief valve with pump element, without relief valve 160 bar with pump element, with relief valve 160 bar with pump element, with relief valve 300 bar with pump element, without relief valve; connected with pump element 1 4 with pump element, without relief valve; connected with pump element 2  G. RESERVOIR SIZE  Code  4 liter with follower plate; without level control 8 liter with follower plate; without level control 9 liter with follower plate; without level control 12 liter with follower plate; without level control 20 liter with follower plate; without level control 4 liter with follower plate; without level control 5 liter with follower plate; without level control 6 liter with follower plate; with level control EMPTY 9 liter with follower plate; with level control EMPTY 9 liter with follower plate; with level control EMPTY 9 liter with follower plate; with level control EMPTY 9 liter with follower plate; with level control EMPTY 9 liter with follower plate; with level control EMPTY 9 liter with follower plate; without level control 9 liter with follower plate; without level control 9 liter without follower plate; with level control 9		
without pump element, without relief valve with pump element, with relief valve 160 bar with pump element, with relief valve 180 bar with pump element, with relief valve 300 bar 33 with pump element, with relief valve 300 bar 33 with pump element, without relief valve; connected with pump element 1 44 with pump element, without relief valve; connected with pump element 2 5  G. RESERVOIR SIZE Code 4 liter with follower plate; without level control Biter with follower plate; without level control Biter with follower plate; without level control Biter with follower plate; without level control Code 4 liter with follower plate; without level control Developed Biter with follower plate; without level control Code 4 liter with follower plate; with level control EMPTY Biter without follower plate; with level control EMPTY Biter without follower plate; with level control EMPTY Biter without follower plate; without level control EMPTY Biter without follower plate; with level control EMPTY Biter wit	with pump element, without relief valve; connected with pump element 1 + 3	5
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15 liter with follower plate; without level control 20 liter with follower plate; without level control 4 liter with follower plate; with level control EMPTY 8 liter with follower plate; with level control EMPTY 12 liter with follower plate; with level control EMPTY 15 liter with follower plate; with level control EMPTY 20 liter with follower plate; with level control EMPTY 21 liter with follower plate; with level control EMPTY 22 liter without follower plate; without level control 31 liter without follower plate; without level control 42 liter without follower plate; without level control 43 liter without follower plate; without level control 44 liter without follower plate; without level control 45 liter without follower plate; without level control 46 liter without follower plate; with level control EMPTY 48 liter without follower plate; with level control EMPTY 49 liter without follower plate; with level control EMPTY 40 liter without follower plate; with level control EMPTY 50 liter without follower plate; with level control EMPTY 50 liter without follower plate; with level control EMPTY 50 liter without follower plate; with level control EMPTY 50 liter without follower plate; with level control EMPTY 51 liter without follower plate; with level control EMPTY 52 liter without follower plate; with level control EMPTY 53 liter without follower plate; with level control EMPTY 54 liter without follower plate; with level control EMPTY 55 liter without follower plate; with level control EMPTY 56 liter without follower plate; with level control EMPTY 57 liter without follower plate; with level control EMPTY 57 liter without follower plate; with level control EMPTY 57 liter without follower plate; with level control EMPTY 57 liter without follower plate; with level control EMPTY 58 liter without follower plate; with level control EMPTY 59 liter without follower plate; with level control EMPTY 50 liter without follower plate; with level control EMPTY 50 liter without follower plate; with level control EMPTY 50 liter		
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8 liter with follower plate; with level control EMPTY 12 liter with follower plate; with level control EMPTY 15 liter with follower plate; with level control EMPTY 20 liter with follower plate; with level control EMPTY 31 diter without follower plate; without level control 41 liter without follower plate; without level control 51 liter without follower plate; without level control 52 liter without follower plate; without level control 53 liter without follower plate; without level control 54 liter without follower plate; without level control 65 liter without follower plate; with level control 66 liter without follower plate; without level control 77 liter without follower plate; with level control EMPTY 87 liter without follower plate; with level control EMPTY 88 liter without follower plate; with level control EMPTY 89 liter without follower plate; with level control EMPTY 80 liter without follower plate; with level control EMPTY 80 liter without follower plate; with level control EMPTY 81 liter without follower plate; with level control EMPTY 82 liter without follower plate; with level control EMPTY 81 liter without follower plate; with level control EMPTY 82 liter without follower plate; with level control EMPTY 83 liter without follower plate; with level control EMPTY 84 liter without follower plate; with level control EMPTY 85 liter without follower plate; with level control EMPTY 86 liter without follower plate; with level control EMPTY 87 liter without follower plate; with level control EMPTY 86 liter without follower plate; with level control EMPTY 87 liter without follower plate; with level control EMPTY 88 liter without follower plate; with level control EMPTY 89 liter without follower plate; with level control EMPTY 90 liter without follower plate; with level control EMPTY 90 liter without follower plate; with level control EMPTY 90 liter without follower plate; without level control EMPTY 90 liter without follower plate; without level control EMPTY 90 liter without follower plate; without level con		
12 liter with follower plate; with level control EMPTY 15 liter with follower plate; with level control EMPTY 20 liter with follower plate; with level control EMPTY 4 liter without follower plate; without level control 8 liter without follower plate; without level control 12 liter without follower plate; without level control 15 liter without follower plate; without level control 16 liter without follower plate; without level control 17 liter without follower plate; without level control 18 liter without follower plate; with level control 29 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY 21 liter without follower plate; with level control EMPTY 22 liter without follower plate; with level control EMPTY 23 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY 21 liter without follower plate; with level control EMPTY 22 liter without follower plate; with level control EMPTY 33 liter without follower plate; with level control EMPTY 34 liter without follower plate; with level control EMPTY 35 liter without follower plate; with level control EMPTY 36 liter without follower plate; with level control EMPTY 37 liter without follower plate; with level control EMPTY 38 liter without follower plate; with level control EMPTY 39 liter without follower plate; with level control EMPTY 30 liter without follower plate; with level control EMPTY 30 liter without follower plate; with level control EMPTY 30 liter without follower plate; with level control EMPTY 30 liter without follower plate; with level control EMPTY 30 liter without follower plate; with level control EMPTY 31 liter without follower plate; with level control EMPTY 32 liter without follower plate; with level control EMPTY 33 liter without follower plate; with level control EMPTY 30 liter without follower plate; with level control EMPTY 31 liter without follower plate; without follower plate; without follower plate; without follower plate; with		
15 liter with follower plate; with level control EMPTY 20 liter with follower plate; with level control EMPTY 4 liter without follower plate; without level control 8 liter without follower plate; without level control 12 liter without follower plate; without level control 15 liter without follower plate; without level control N 16 liter without follower plate; without level control Other without follower plate; without level control V 17 liter without follower plate; with level control EMPTY Other without follower plate; with level control EMPTY  T  H. OPERATING VOLTAGE  Code  12 V DC 1 24 V DC 2 115 V AC, ± 15 % / 50 - 60 Hz 3		
20 liter with follower plate; with level control EMPTY 4 liter without follower plate; without level control 8 liter without follower plate; without level control 12 liter without follower plate; without level control M 15 liter without follower plate; without level control O 4 liter without follower plate; without level control 4 liter without follower plate; with level control EMPTY 8 liter without follower plate; with level control EMPTY 12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY T  H. OPERATING VOLTAGE  Code  12 V DC 24 V DC 2115 V AC, ± 15 % / 50 - 60 Hz 3		
4 liter without follower plate; without level control  8 liter without follower plate; without level control  12 liter without follower plate; without level control  15 liter without follower plate; without level control  20 liter without follower plate; without level control  4 liter without follower plate; with level control EMPTY  8 liter without follower plate; with level control EMPTY  12 liter without follower plate; with level control EMPTY  15 liter without follower plate; with level control EMPTY  20 liter without follower plate; with level control EMPTY  5 liter without follower plate; with level control EMPTY  7 code  12 V DC  24 V DC  215 V AC, ± 15 % / 50 - 60 Hz  25 data to the without follower plate; without follower plate; without follower plate; without follower plate; with level control EMPTY  21 for the without follower plate; with level control EMPTY  22 data to the without follower plate; with level control EMPTY  24 V DC  25 data to the without follower plate; without follower plate; with level control EMPTY  26 data to the without follower plate; with level control EMPTY  3 data to the without follower plate; with level control EMPTY  4 data to the without follower plate; with level control EMPTY  4 data to the without follower plate; with level control EMPTY  5 data to the without follower plate; with level control EMPTY  5 data to the without follower plate; with level control EMPTY  5 data to the without follower plate; with level control EMPTY  5 data to the without follower plate; with level control EMPTY  6 data to the without follower plate; with level control EMPTY  7 data to the without follower plate; with level control EMPTY  8 data to the without follower plate; with level control EMPTY  9 data to the without follower plate; with level control EMPTY  9 data to the without follower plate; with level control EMPTY  9 data to the without follower plate; with level control EMPTY  9 data to the without follower plate; with level control EMPTY  9 data to the without follower plate;		•
8 liter without follower plate; without level control  12 liter without follower plate; without level control  15 liter without follower plate; without level control  20 liter without follower plate; without level control  4 liter without follower plate; with level control EMPTY  8 liter without follower plate; with level control EMPTY  12 liter without follower plate; with level control EMPTY  15 liter without follower plate; with level control EMPTY  20 liter without follower plate; with level control EMPTY  T   H. OPERATING VOLTAGE  Code  12 V DC  24 V DC  115 V AC, ± 15 % / 50 - 60 Hz  25 AC, ± 15 % / 50 - 60 Hz  26 AC  27 AC  28 AC  29 AC  20 AC  21 AC  22 AC  23 AC  24 AC  25 AC  26 AC  27 AC  28 AC  29 AC  20 AC		
12 liter without follower plate; without level control 15 liter without follower plate; without level control 20 liter without follower plate; without level control 4 liter without follower plate; with level control EMPTY 8 liter without follower plate; with level control EMPTY 12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY T  H. OPERATING VOLTAGE  Code  12 V DC 24 V DC 21 15 V AC, ± 15 % / 50 - 60 Hz  3 3		
15 liter without follower plate; without level control 20 liter without follower plate; without level control 4 liter without follower plate; with level control EMPTY 8 liter without follower plate; with level control EMPTY 12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY T  H. OPERATING VOLTAGE  Code  12 V DC 24 V DC 115 V AC, ± 15 % / 50 - 60 Hz  N OPERATING VOLTAGE  N OPERATING VOLTAGE 2 115 V AC, ± 15 % / 50 - 60 Hz 2 3	•	
20 liter without follower plate; without level control 4 liter without follower plate; with level control EMPTY 8 liter without follower plate; with level control EMPTY 12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY T   H. OPERATING VOLTAGE  Code  12 V DC 24 V DC 2115 V AC, ± 15 % / 50 - 60 Hz  2	12 liter without follower plate; without level control	M
4 liter without follower plate; with level control EMPTY 8 liter without follower plate; with level control EMPTY 12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY T  H. OPERATING VOLTAGE  Code  12 V DC 24 V DC 115 V AC, ± 15 % / 50 - 60 Hz  2 3	15 liter without follower plate; without level control	N
8 liter without follower plate; with level control EMPTY 12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY  T  H. OPERATING VOLTAGE  12 V DC 24 V DC 2115 V AC, ± 15 % / 50 - 60 Hz  3	20 liter without follower plate; without level control	0
8 liter without follower plate; with level control EMPTY 12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY T  H. OPERATING VOLTAGE  12 V DC 24 V DC 2115 V AC, ± 15 % / 50 - 60 Hz 3	4 liter without follower plate; with level control EMPTY	Р
12 liter without follower plate; with level control EMPTY 15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY  T  H. OPERATING VOLTAGE  12 V DC 24 V DC 115 V AC, ± 15 % / 50 - 60 Hz  R  R  R  R  R  R  A  B  Code  1  Code  1  2  1  3		Q
15 liter without follower plate; with level control EMPTY 20 liter without follower plate; with level control EMPTY  T  H. OPERATING VOLTAGE  12 V DC 24 V DC 21 15 V AC, ± 15 % / 50 - 60 Hz  S  Code  1 2 2 3		
20 liter without follower plate; with level control EMPTY  H. OPERATING VOLTAGE  12 V DC  24 V DC  115 V AC, ± 15 % / 50 - 60 Hz  7		
H. OPERATING VOLTAGE       Code         12 V DC       1         24 V DC       2         115 V AC, ± 15 % / 50 - 60 Hz       3		
12 V DC 1 24 V DC 2 115 V AC, ± 15 % / 50 - 60 Hz 3	20 mor without follower plate, with level control Livil 11	'
24 V DC 2 115 V AC, ± 15 % / 50 - 60 Hz 3	H. OPERATING VOLTAGE	Code
115 V AC, ± 15 % / 50 - 60 Hz 3	12 V DC	1
115 V AC, ± 15 % / 50 - 60 Hz 3	24 V DC	2
	115 V AC, ± 15 % / 50 - 60 Hz	
	230 V AC, ± 15 % / 50 - 60 Hz	



internal controller, 1 x plug DIN 43650, 3-pole 01 internal controller, 1 x plug DIN 43650, 3-pole + 1 x plug M 12x1, 8-pole 02	
internal controller. 1 x plug DIN 43650. 3-pole + 1 x plug M 12x1. 8-pole 02	
internal controller, 1 x plug DIN 43650, 3-pole + cable gland M 20x1.5	
internal controller, 1 x plug DIN 43650, 3-pole + 1 x plug M 12x1, 8-pole +	
cable gland M 20x1,5	
Advice: Plug DIN 43650, 3-pole – for power supply	
Plug M12x1, 8-pole - for status signals Cable gland M 20x1.5 for connection of sensors/pressure switches within the pump	
without controller, 1 x plug DIN43650, 3-pole	
without controller, 1 x plug DIN43650, 3-pole + 1x plug M12x1, 4-pole 12	
without controller, 1 x plug DIN 43650, 3-pole + 1x plug M12x1, 4-pole + cable gland M 20x1.5 13	
without controller, 1 x plug DIN 43650, 3-pole + 1x plug M12x1, 8-pole + cable gland M 20x1.5 14	
without controller, 1 x plug DIN43650, 3-pole + 1x plug DIN 43650, 4-pole 19	
Advice: Plug DIN 43650, 3-pole - to connect the motor	
Plug DIN 43650, 4-pole - for level switch Plug M12x1, 4-pole - for up to 2 switching signals (e.g. level switch)	
Plug M12x1, 8-pole - for up to 5 switching signals (e.g. level switch)	
Cable gland M 20x1.5 for connection of sensors/valves within the pump	

J. ACCESSORIES	Code
without	00
1x cable connector DIN43650, 3-pole	06
1x cable connector DIN43650, 3-pole + 1x cable connector M12x1, 8-pole	07
1x cable connector DIN43650, 3-pole + 1x cable connector M12x1, 4-pole	08
2x cable connector DIN43650, 4-pole	09

# RECOMMENDED ACCESSORIES (must be ordered separately)

1	Suitable cable: PVC NYSLYÖ-J 3 x 1 mm <sup>2</sup>	769212643
2	Connection of signals	

Suitable cable: UNITRONIC® PUR CP control line 7x0.25 mm<sup>2</sup>

769217027

If the pump is ordered without internal control, the attached electrical devices (valves, pressure switch, monitoring switches) must be wired by the user.

The factory offers the valves as standard with line sockets without any protection circuit. At 230 V AC supply voltage, the standard line sockets can be used without a protection circuit; for 24V DC supply voltage we offer you the following line sockets with protection circuit:

2	Connection	forvolves
J.	Connection	ioi vaives

	a. Line socket DIN 43650 with protection circuit and status LED	769289233
	b. Suitable cable: PVC NYSLYÖ-J 3 x 1 mm <sup>2</sup>	769212643
4.	Connection of pressure switch for a single-line system	
	a. Line socket 4-pole, angular, M 12x1 with 2 m cable	76928E042
5.	Connection of monitoring switch 669251311 (relief valve)	
	a. Selection as per data sheet 669251311	

6. Counterpart of the filling connection 734142583



# **SPECIFICATION**

General details	
Operating pressure max.	160 and 300 bar
Motor voltage:	2 / 24 V DC or 115 / 230 V AC
Motor power :	50 W
Lubrication outlet :	
Rated single-piston delivery rate (also in combination):	2 9 cm³/min
Temperature range:	30 to + 75 C
Acceptable lubricants :	
(if operated at low temperature, se	
Available reservoir capacities :	4 I, 8 I, 12 I, 15 I or 20 I
Discharge element output port (optional):	
Protection system :	IP67
Notes:	
1. Lubricants should be selected according to specific operating tempera	tures.
Contact BIJUR DELIMON should you require additional assistance.	
2. Electrical specification	
Number of connections :	3 + PE
Specification of power cable :	AWG20 -14
Diameter of power cable :	
Protection system :	IP67

# **EXAMPLE OF ORDER**

								Cod	le						
		DYX	<b>(</b>	/L	Α	2	0		0	$\Box$	G	2	(	)2	00
Pump type DYNAMIS Maxx	Code: DYX														
Lubrication system Multi-line / version with free outlet (outlets)	Code: ML														
<b>Revision</b> Status A	Code: A														
Version of pump element 1 with pump element, with relief valve 160 bar	Code: 2														
Version of pump element 2 without pump element	Code: 0														
Version of pump element 3 without pump element	Code: 0														
Reservoir size 8.0 liter, with follower plate, with level control EMPTY	Code: G														
Operating voltage 24V DC	Code: 2														
Controller / Interface internal controller, 1 x plug DIN 43650, 3-pole + 1 x plug M 12x1, 8-pole	Code: 02														
Accessories without	Code: 00	_													