



#### **CHARACTERISTICS**

- Compact and versatile
- 10 pumping elements

- Flow rate

Multiline: 0.005 - 0.01 - 0.015 - 0.025 - 0.05cm<sup>3</sup>/cycle

Basic: 0,14 – 0,26 cm<sup>3</sup>/cycle

- Maximum operating pressure:

Multiline: 200 bar Basic: 280 bar

- Operating temperature:

-40 ÷ +60°C

- N°. outputs:

8 – Multiline 2 – Basic

- Reservoir: 1-2 kg

**Lubricant:** 

Grease NLGI 000 ÷ 2

#### **APPLICATIONS**

- Earth-moving machines
- Machine tools
- Wind energy sector
- Small and medium lubrication systems

# **MULTI-OUTLET ELECTRIC GREASE PUMP**



**"FemtoPUMP"** is a compact and versatile multi-outlet electric grease pump, ideal for small to medium sized lubrication systems.

It's made entirely of plastic, which makes it cost-competitive.

The application is suitable for both direct use (Multiline) and for use with progressive dividers (Basic).

In "Multiline" solutions are designed for use with eight pumping elements and provides lubrication directly to the end point.

The "Basic" systems are designed for use with two pumping elements and provides the proper amount of lubricant through the utilization of progressive dividers.

The pump is available in two versions, one utilizing a stirring paddle (both for 1Kg and for 2Kg) and the other incorporating a follower plate (1Kg).

- All versions (with follower plate or stirring paddle) include a minimum level sensor.
- The minimum level sensor is placed on the stirring paddle, which also acts as a mechanism that significantly reduces the accumulation of grease on the bottom of the tank.

#### **BENEFITS:**

- It can be configured in a variety of ways for different uses.
- Possibility to adapt the unit according to the application.
- Easy installation due to the small size.

# **FemtoPUMP**





#### **TECHNICAL CHARACTERISTICS**

GENERAL TECHNICAL FEATURES						
Speed		RPM	17±4			
	Multi-line	cm³/cycle [in³/rev]	0.005 - 0.01 - 0.015 - 0.025 - 0.05 [0.0003 - 0.0006 - 0.0009 - 0.0015 - 0.003]			
Flow rate:	Basic	cm³/cycle	0,14- 0,26 [0.0085 - 0.016]			
	Basic Reg.	[in <sup>3</sup> /min]	0,02÷ 0,14 [0.0012 ÷ 0.0085]			
Maximum anarating process	Multi-line	bar	200 [2900]			
Maximum operating pressure	Basic	[psi]	280 [4061]			
Number of outputs (pumping elements)	Multi-line	No	8			
	Basic	INO	2			
Supply connection (pumping output)	Multi-line	T	G1/8"			
	Basic	Туре	G1/4"			
Operating temperature		°C [°F]	-40 ÷ +60 [-40 ÷ +140]			
Reservoir capacity	Follower plate Stirring paddle	Medical history	1 [ 0.26]			
	Stirring paddle	·	2 [0.52]			
Lubricant		NLGI	Grease 000 ÷ 2			

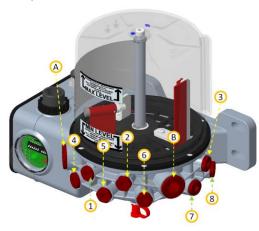
#### FEMTO - MULTILINE AND PROGRESSIVE (BASIC)

#### BENEFITS OF PROGRESSIVE SYSTEM DROPSA

- Modular progressive system for excellent lubrication
- Ability to expand the system
- High accuracy
- Stainless steel
- Different progressive distributor for all needs
- SMX nP nPr+ SMP (Ref. DropsA documents progressive system SMX C2104PE - nP C2213PE - nPr+ C2220PE - SMP C2071PE)

# **Progressive system** Multi-point system

# **PUMPING ELEMENTS POSITION BASIC/MULTILINE**



#### Note:

The control unit can be supplied with or without pumping elements using the codes shown in the ordering information.

#### **PUMPING ELEMENTS BASIC SYSTEM**



#### **PUMPING ELEMENTS MULTILINE SYSTEM**

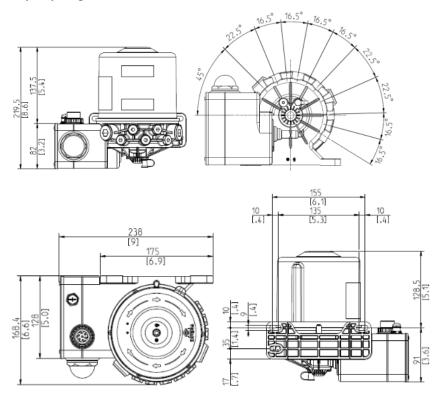




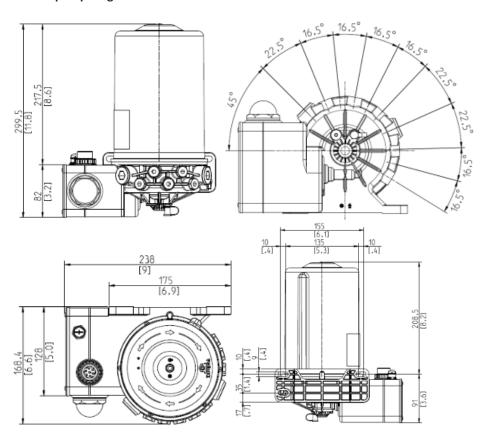


## **DIMENSIONS**

## Femto pump 1 Kg all versions



## Femto pump 2 Kg all versions



# **FemtoPUMP**





## **ORDERING INFORMATION**

# STANDARD PUMP (WITHOUT PUMPING ELEMENTS)

ТҮРЕ	VOLTAGE	RESERVOIR	MANUAL VERSION (Without Controller)	AUTOMATIC VERSION (With built in Controller)
	12 VDC	1KG	0891111	0891131
		2KG	0891112	0891132
BASIC Can fit up to 2 main		1KG Follower Plate version	0891113	0891133
pump	24 VDC	1KG	0891121	0891141
elements		2KG	0891122	0891142
		1KG Follower Plate version	0891123	0891143
MULTILINE 2 Basic Elements + 8 Multi line	12 VDC	1KG	0891211	0891231
		2KG	0891212	0891232
		1KG Follower Plate version	0891213	0891233
	24 VDC	1KG	0891221	0891241
		2KG	0891222	0891242
		1KG Follower Plate version	0891223	0891243

#### **PUMPING CODES**

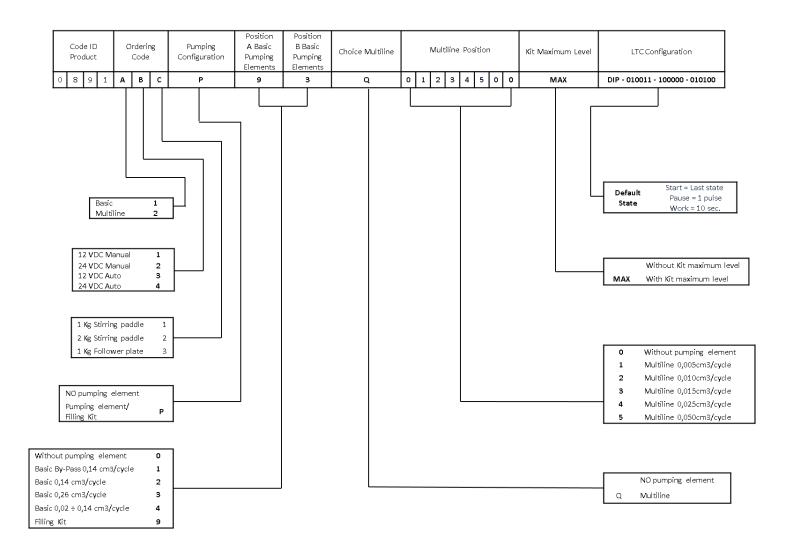
PUMPS						
CODE	TYPE	FLOW RATE	NOTES	ID		
0888058C	BASIC	2.8cm <sup>3</sup> /min	Internal By-Pass	1		
0888156		2.8cm <sup>3</sup> /min	No Dy pass	2		
0888391		5.2cm <sup>3</sup> /min	No By-pass	3		
0888555		0.4 ÷ 2.8cm <sup>3</sup> /min	Adjustable	4		
0890034	MULTI-LINE	0.005cm <sup>3</sup> /cycle	1 notch	1		
0890033		0.010cm <sup>3</sup> /cycle	2 notches	2		
0890032		0.015cm <sup>3</sup> /cycle	3 notches	3		
0890031		0.025cm <sup>3</sup> /cycle	4 notches	4		
0890030		0.050cm <sup>3</sup> /cycle	5 notches	5		

# **FemtoPUMP**





#### PRE-CONFIGURATED PUMP



C2387PE WK 11/22

Dropsa products can be purchased at Dropsa branches and authorised distributors. Go to <a href="mailto:www.dropsa.com/contact">www.dropsa.com/contact</a> or write to <a href="mailto:sales@dropsa.com">sales@dropsa.com</a>

Distributor Info: