

**ELADOS® EMP III**  
**Diaphragm Pump type 00160 - 00540**  
**electronically controlled**

- **Mechanical stroke adjustment**
- **Stroke frequency regulation**
- **Pulse control**
- **Pulse multiplication and division**
- **Pulse memory**
- **Standard signal control**
- **Empty signal and low level warning**
- **External metering lock**
- **Empty signal and stroke signal output**



The ELADOS® EMP III series of metering pumps is constructed on the building block principle. It comprises the drive unit, the gear box unit, the metering pump head and the electronics. Different designs of drive option allow the pump to be

adapted to any processing sequence for quantity or proportional metering. The scope of delivery is rounded off by practical accessories, so forming a complete range of equipment for all metering uses.

# ELADOS® EMP III

## Diaphragm Pump type 00160 - 00540

### electronically controlled

#### Technical Data:

##### Mechanical Data:

Pump capacity [l/h]:	16	25	54
Metering back-pressure* [bar]:	10	10	10
Delivery per stroke [cm <sup>3</sup> ]:	2,1	3,4	7,3
Metering accuracy:	< ± 3 %		
Suction height:	2 mWs, suction height with clean, slightly wet valves		
Max. metering frequency:	122 1/min		
Pressure valve:	without spring		
Suction valve:	without spring		
Ambient temperature:	max. 40°C		

##### Materials:

Housing:	thermoplastic polyester
Pump head:	polypropylene <b>optional</b> PVDF, PVC or stainless steel 1.4571
Diaphragm:	PTFE - EPDM compound diaphragm
Seals:	FPM 602 (Viton B) <b>optional</b> EPDM or Kalrez
Valve balls:	ceramics <b>optional</b> PTFE or stainless steel 1.4401
Weight:	7,4 kg
Colour:	blue RAL 5007

##### Electrical Data:

Connection:	230 V / 50/60 Hz At a mains frequency of 60 Hz, delivery capacity increases by 20%, whereas metering back-pressure decreases by 20%.
Current consumption:	950 mA (50 Hz)
Power output:	90 W (50 Hz)
Safety type:	IP 55
Insulation class:	F

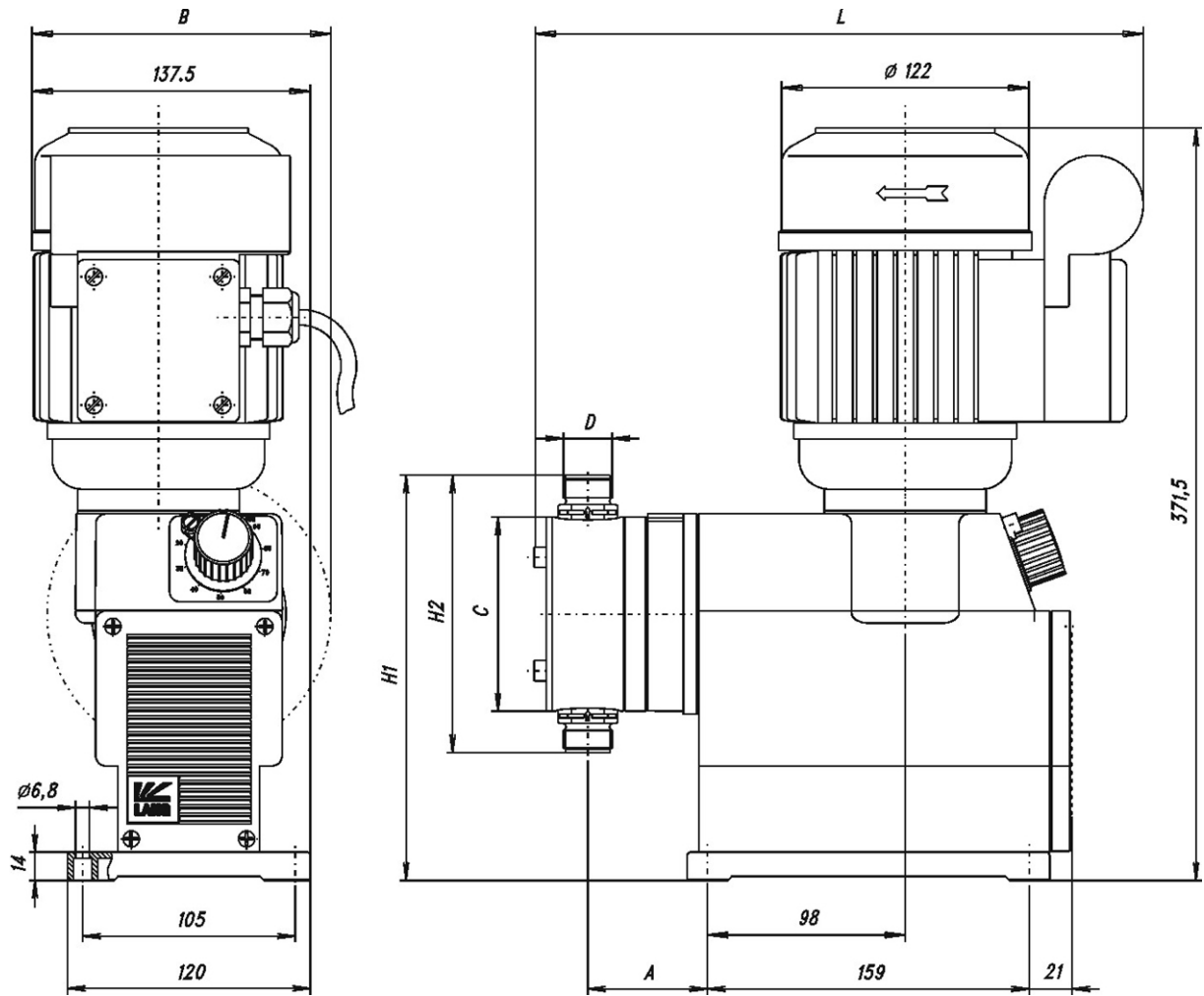
All values at 50 Hz. All data refer to water temperature of 20 °C according to the instructions of the technical manual, subject to!

\*For **EMP III HP (High Pressure)** version see page 25.  
Other special versions on request.

**ELADOS® EMP III**  
**Diaphragm Pump type 00160 - 00540**  
**electronically controlled**

**Dimensions :**

Version E00



Capacity l/h	Dimensions [mm]					
	A	C	L	H1	H2	D
16	59	$\phi 96$	301	200	137	5/8"
25	59	$\phi 96$	301	200	137	5/8"
54	63	$\phi 96$	303	200	137	5/8"

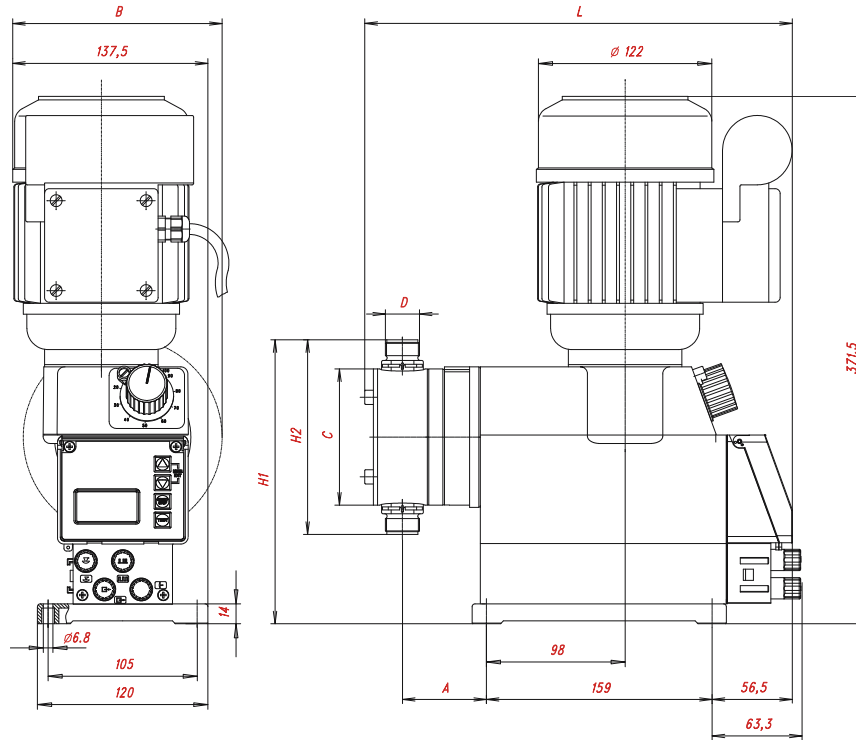
# ELADOS<sup>®</sup> EMP III

## Diaphragm Pump type 00160 - 00540

### electronically controlled

#### Dimensions:

Version E10 – E 60

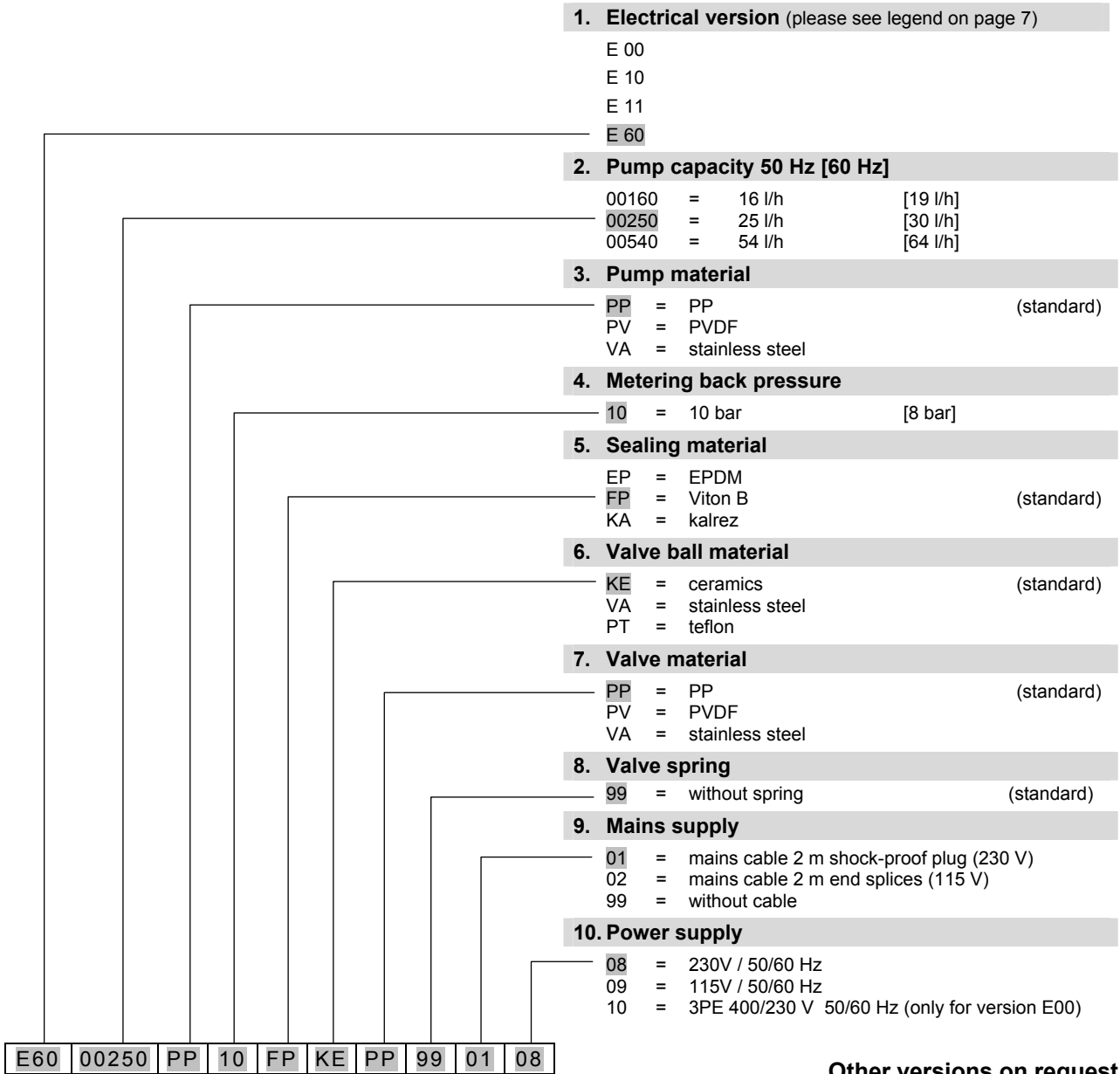


Capacity l/h	Dimensions [mm]					
	A	C	L	H1	H2	D
16	59	$\phi 96$	301	200	137	5/8"
25	59	$\phi 96$	301	200	137	5/8"
54	63	$\phi 96$	303	200	137	5/8"

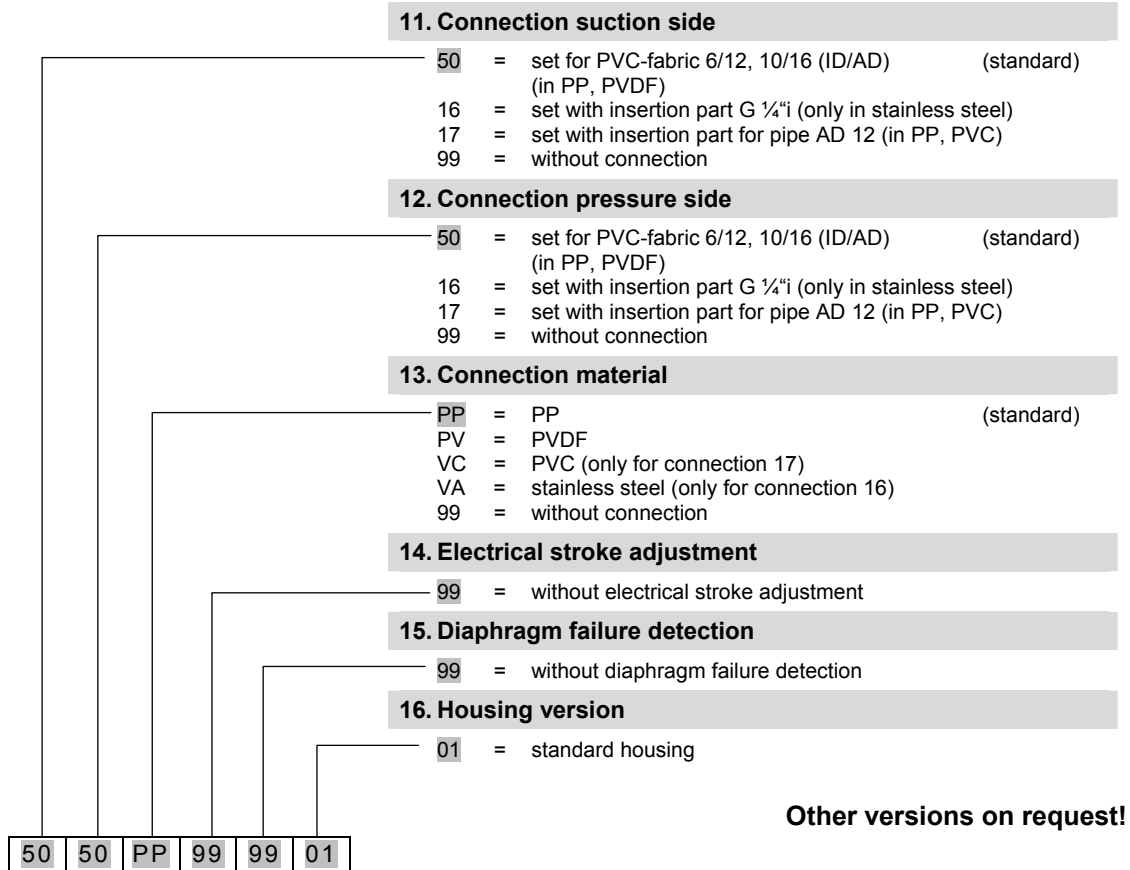
# ELADOS® EMP III

## Diaphragm Pump type 00160 - 00540

### Pump code – part 1



### Pump code – part 2



Example of a complete pump code of a standard pump:

E60	00250	PP	10	FP	KE	PP	99	01	08	-	50	50	PP	99	99	01
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(Pump code 1)

(Pump code 2)

## **Electrical versions**

**E 00** Mechanical stroke adjustment

**E 10** On / off switch, mechanical stroke adjustment

**E 11** As E 10, additional empty signal input with level pre-warning, empty signal output

- E 60**
- Mechanical stroke adjustment
  - Back-lit graphic display, 4 operating keys
  - Single stroke control (each stroke is completely executed)
  - Metering monitoring via stroke-signal output or via external metering-monitoring system (e.g. liquid level switch) possible
  - Registration of operating and consumption data (calculative)
  - Calibration function

### Selectable operating modes:

#### **Internal mode**

Selection of metering rate/metering frequency via:

- Strokes/min
- Percent
- Liter/h (or gallon/h)

#### **External mode**

- Pulse mode (actuation via pulses)
  - Pulse multiplication (one incoming pulse = n metering strokes)
  - Pulse division (n incoming pulses = 1 metering stroke)
- Standard signal mode (actuation via external standard signal 0/4-20 mA or 20-0/4 mA)
- Charge mode (a previously selected quantity is metered, with initiation via an external initiation pulse)

#### **Inputs:**

- Level monitoring, package vessel (reserve and empty signal)
- Pulse
- Standard signal
- Enable (metering interlock)
- Metering control

#### **Outputs:**

- Level monitoring package vessel / malfunction
- Stroke signal

**Ordering data – standard pumps:**

Article	Pump code	Material-No.
ELADOS® EMP III	E00 00160 PP 10 FP KE PP 99 99 08 – 50 50 PP 99 99 01	149001
	E00 00250 PP 10 FP KE PP 99 99 08 – 50 50 PP 99 99 01	149101
	E00 00540 PP 10 FP KE PP 99 99 08 – 50 50 PP 99 99 01	149201
<b>Extent of supply:</b> hose connection material 6/12 and 10/16 mm, operating instructions, <b>without</b> connection cable		
ELADOS® EMP III	E10 00160 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149010
	E10 00250 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149110
	E10 00540 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149210
<b>Extent of supply:</b> 2,0 m connection cable with shock-proof plug, hose connection material 6/12 and 10/16 mm, operating instructions		
ELADOS® EMP III	E11 00160 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149011
	E11 00250 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149111
	E11 00540 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149211
<b>Extent of supply:</b> 2,0 m connection cable with shock-proof plug, hose connection material 6/12 and 10/16 mm, dummy plug for empty signal input, dummy cap for empty signal or stroke signal output, operating instructions		
ELADOS® EMP III	E60 00160 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149560
	E60 00250 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149660
	E60 00540 PP 10 FP KE PP 99 01 08 – 50 50 PP 99 99 01	149760
<b>Extent of supply:</b> 2,0 m connection cable with shock-proof plug, hose connection material 6/12 and 10/16 mm, dummy plug for empty signal input, dummy plug for pulse input, dummy cap for empty signal or stroke signal output, 5-pin connection plug for pulse or standard signal input, plug allocation plan, operating instructions		



# ELADOS® EMP III Diaphragm Pump type 00160 - 00540 Accessories

## ELADOS® EMP II E 60<sup>PLUS</sup>

With the add-on unit (Dongle Box) for connection of an OGM<sup>PLUS</sup> oval gear meter the version E 60 turns to version E 60<sup>PLUS</sup>.



### Article

### Material-No.

#### Dongle Box

248606

with the following additional functions:

- Display of real metering quantity/time and automatic readjustment of pump output (only in combination with external flow monitoring system, e.g. oval gear meter)
- Automatic calibration function via oval gear meter
- Consumption data control by means of oval gear meter

## Accessories:



#### Oval gear meter

for volumetric measurement of the rate of flow

Ordering data are to be found in chapter 5 of “Measuring and Controlling”.

**ELADOS® EMP III**  
**Diaphragm Pump type 00160 - 00540**  
**Accessories (suction side)**

**Accessories:**



<b>Article</b>	<b>Material No.</b>
<b>Suction lances D32 with reserve and empty signal report</b>	
incl. of ball non-return valve, suction strainer and zero-potential empty signal contact (empty = contact interrupted), hose connection material (4/6 mm, 6/8 mm, 6/12 mm)	
Pipe diameter:	32 mm
Connection cable:	circular connector incl. 5 m cable
Turn-on voltage:	max. 50 V AC/DC
Switching current:	0,5 A
Rupturing capacity:	10 W / 10 VA
SGL VCPVFPEPGL000 G5/8-06-2SS-0475-9921 (for container 20 l)	186140
SGL VCPVFPEPGL000 G5/8-06-2SS-0725-9921 (for container 30/60 l)	186141
SGL VCPVFPEPGL000 G5/8-06-2SS-0975-9921 (for container 100/200 l)	186142
SGL VCPVFPEPGL000 G5/8-06-2SS-1125-9921 (for container 200 l)	186143

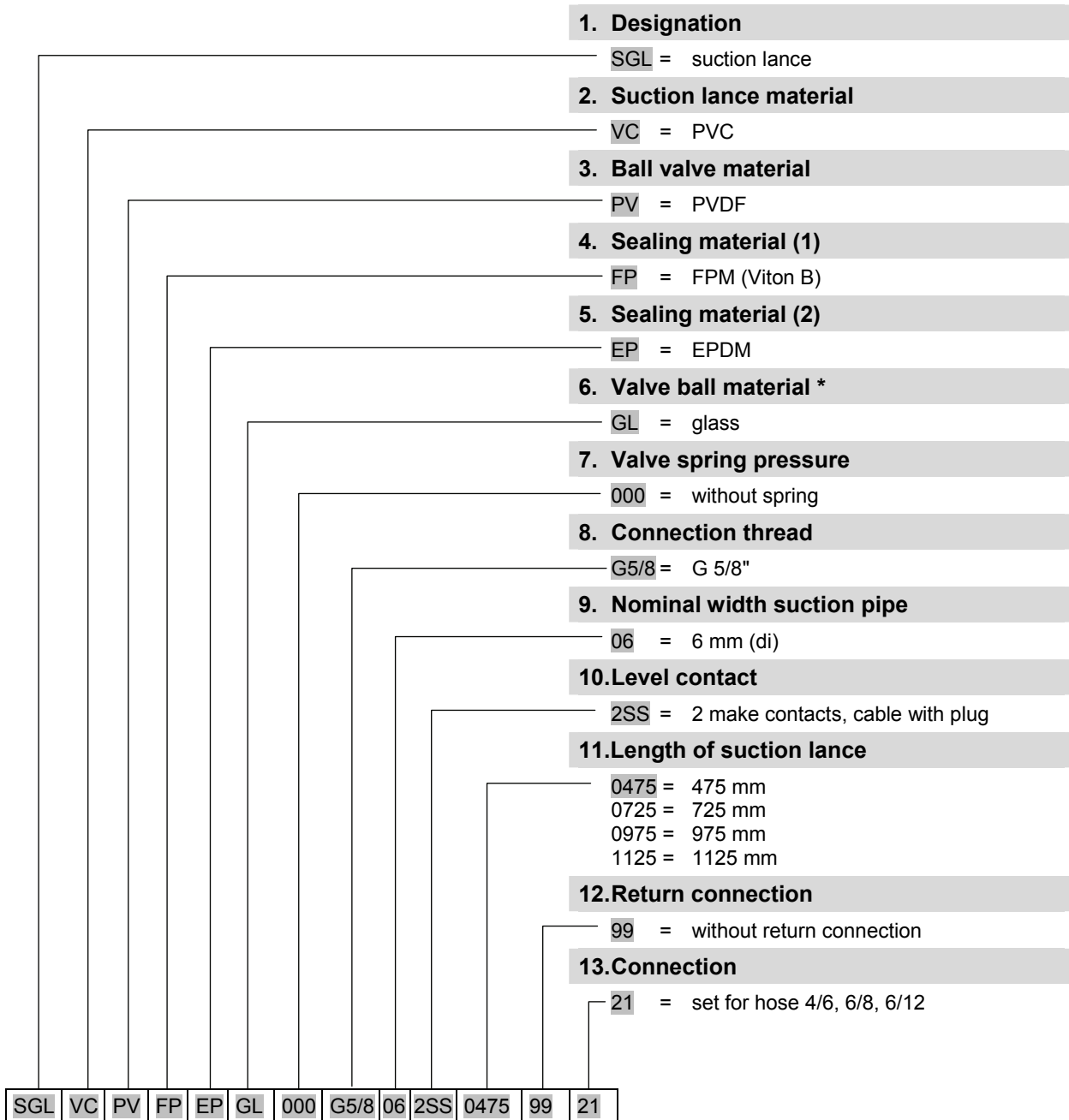
*Please see next page for pump code declaration.*

# ELADOS® EMP III

## Diaphragm Pump type 00160 - 00540

### Accessories (suction side)

#### Suction lance code



\* standard valve ball material will soon be changed to ceramics

**ELADOS® EMP III**  
**Diaphragm Pump type 00160 - 00540**  
**Accessories (suction side)**

	<b>Article</b>	<b>Material-No.</b>
	<p><b>Adapter – insert cap</b>                      for suction lance Ø 32 mm                      PVC soft                      to attach on: canister 10 l and 20 l</p>	286198
	<p><b>Adapter – screw joint</b>                      for suction lance Ø 32 mm                      PVC hard                      Thread pitch: 5 mm                      Threaded int. diameter: 56 mm                      Threaded ext. diameter: 61 mm                      can be screwed on: canister 30 l or                      container 60 – 200 l</p>	286197
	<p><b>Suction lance adapter, rigid PVC/Viton B</b>                      for canister and barrel</p>	288549
	<p><b>Suction lance adapter, rigid PVC/Viton B</b>                      for barrels (I-ring plus – barrel 220)</p>	288547
	<p><b>Suction lance adapter, rigid PVC/Viton B</b>                      for container (ECOBULK-container with skid pallet)                      for screw in in screw cap with 2”                      Tri-Sure-Stuffing</p>	288548

**ELADOS® EMP III**  
**Diaphragm Pump type 00160 - 00540**  
**Accessories (suction side)**



**Article**

**Material-No.**

**Adapter – insert cap**

288534

for suction lance Ø 32 mm  
PVC – hard / Viton B

appropriate for **degassing products**

Return connection: 4/6, 6/8 or 6/12 mm (int.Ø /ext.Ø)

Vent connection: 6/12 mm (int.Ø /ext.Ø)

to attach on: canister 30 l or  
container 60 – 200 l



**Adapter – screw joint**

288535

for suction lance Ø 32 mm  
PVC – hard / Viton B / silicone

appropriate for **degassing products**

Return connection: 4/6, 6/8 or 6/12 mm (int.Ø /ext.Ø)

Vent connection: 6/12 mm (int.Ø /ext.Ø)

Thread pitch: 5 mm

Threaded int. diameter: 63 mm

Threaded ext. diameter: 69 mm

for barrel with internal thread (L–ring plus barrel 220 l)



**Terminal box for connection cable of the suction pipe**

288419

for connection cable with round plug  
incl. cable union PG 7 (max. 2 x 1 m<sup>2</sup>)



**Protection tubes for suction lances, D32**

for prevention of mechanical damage of the suction valve  
and the float respectively;  
suitable for all suction lances Ø 32 mm

**Protection tube, PVDF, 32,5/40 (int.Ø /ext.Ø)**

286191

incl. fastening screw

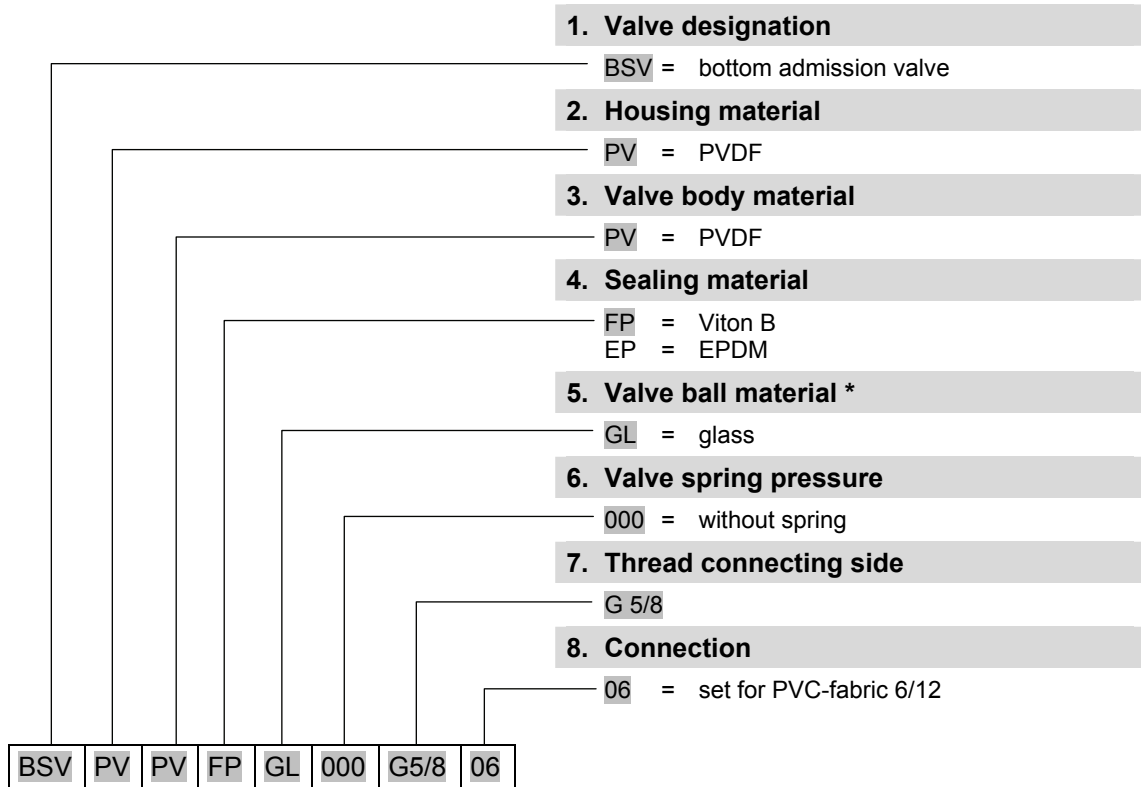
**Protection tube, VA (1.4035), 32,5/40 (int.Ø /ext.Ø)**

286153

incl. fastening screw

## ELADOS® EMP III Diaphragm Pump type 00160 - 00540 Accessories (suction side)

### Bottom admission valve



**Article**

**Material-No.**

BSV PV PV FP GL 000 G 5/8 – 06

249018

BSV PV PV EP GL 000 G 5/8 – 06

249024

\* standard valve ball material will soon be changed to ceramics

**ELADOS® EMP III**  
**Diaphragm Pump type 00160 - 00540**  
**Accessories (pressure side)**



**Pulsation damper**

**Material-No.**

To reduce pressure peaks and pulsation at oscillating rotary pumps at the pressure side and to prevent cavitating at the suction side.

Stroke volume: 15 cm<sup>3</sup>/stroke  
 Admissible nominal pressure: 10 bar  
 Thread connection: G ¾

**PDS 080 D16 PP/Hypalon**

415503009

Housing material: PP  
 Sealing/diaphragms: Hypalon

**PDS 080 D16 PP/Viton**

415503010

Housing material: PP  
 Sealing/diaphragms: Viton



**Manometer**

415502560

0-10 bar, connection G ¼

**Attention:**

When adjusting the initial pressure the pulsation damper has to be relieved on the metering media side.



**Reduction G ½ a – G ¼ i**

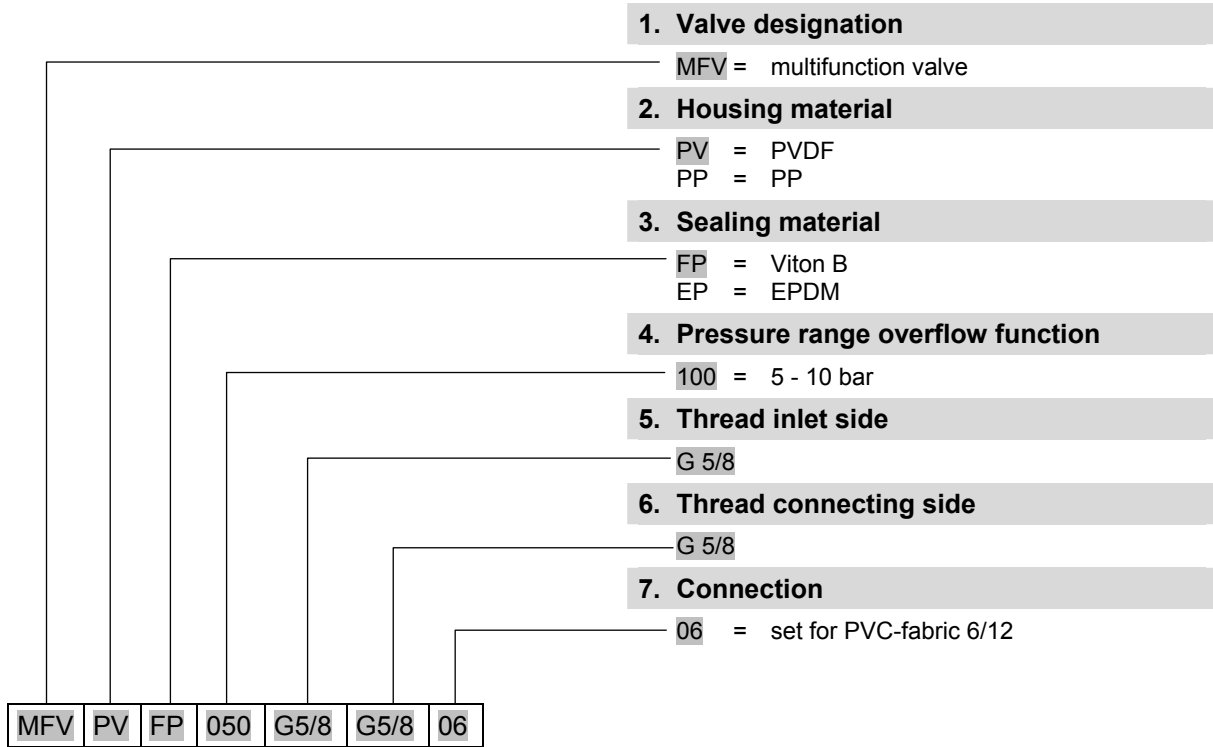
415202771

# ELADOS® EMP III

## Diaphragm Pump type 00160 - 00540

### Accessories (pressure side)

#### Multifunction valve



This safety-relevant component serves the purpose of protecting the piping system and the metering pump and permits safe and reliable commissioning and maintenance of the system.

The multiple function valve combines all of the following functions: **overflow, pressure maintenance, venting and drainage**



Article	Material-No.
MFV PP FP 100 G 5/8 – G 5/8 – 06	249249
MFV PP EP 100 G 5/8 – G 5/8 – 06	249269
MFV PV FP 100 G 5/8 – G 5/8 – 06	249243
MFV PV EP 100 G 5/8 – G 5/8 – 06	249263

**Further material combinations on request!**

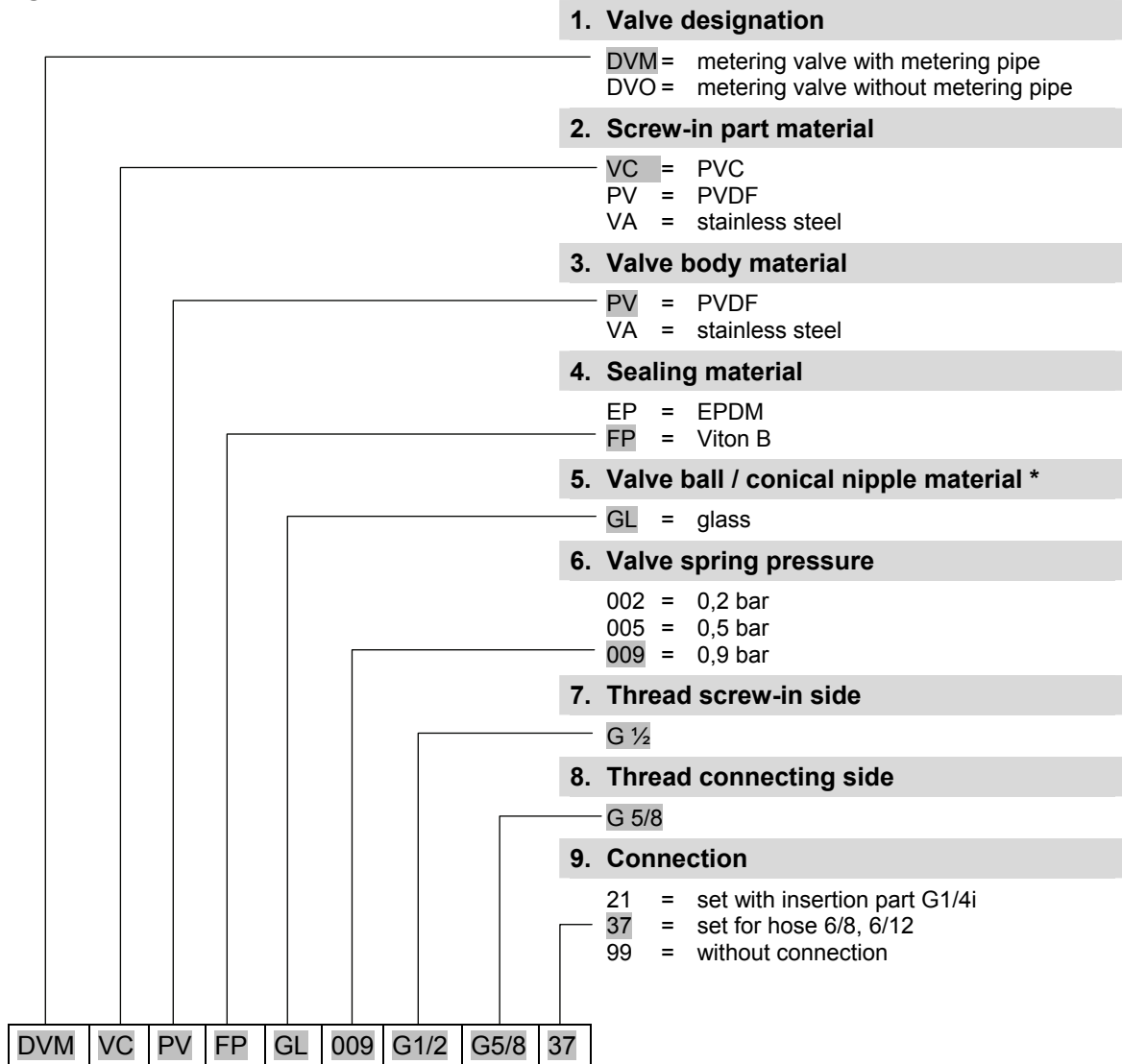


# ELADOS® EMP III

## Diaphragm Pump type 00160 - 00540

### Accessories (pressure side)

#### Metering valves



**Article**

**Material-No.**

DVM VC PV FP GL 009 G 1/2 – G 5/8 – 37	245037
DVM VC PV EP GL 009 G 1/2 – G 5/8 – 37	245034
DVM VA VA FP VA 009 G 1/2 – G 5/8 – 16	245039
DVM VA VA EP VA 009 G 1/2 – G 5/8 – 16	245036






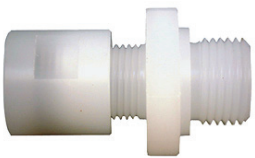
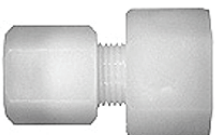
\* standard valve ball material will soon be changed to ceramics

**ELADOS® EMP III  
Diaphragm Pump type 00160 - 00540  
Accessories (pressure side)**



<b>Article</b>	<b>Material-No.</b>
DVO VC PV FP GL 005 G 1/2 – G 5/8 – 37	249028
DVO VC PV EP GL 005 G 1/2 – G 5/8 – 37	249029
DVO PV PV FP GL 005 G 1/2 – G 5/8 – 99	249084
DVO PV PV EP GL 005 G 1/2 – G 5/8 – 99	249085
DVO VA VA FP VA 002 G 1/2 – G 5/8 – 99	249060
DVO VA VA EP VA 002 G 1/2 – G 5/8 – 99	on request

## ELADOS® EMP III Diaphragm Pump type 00160 - 00540 Accessories (general)

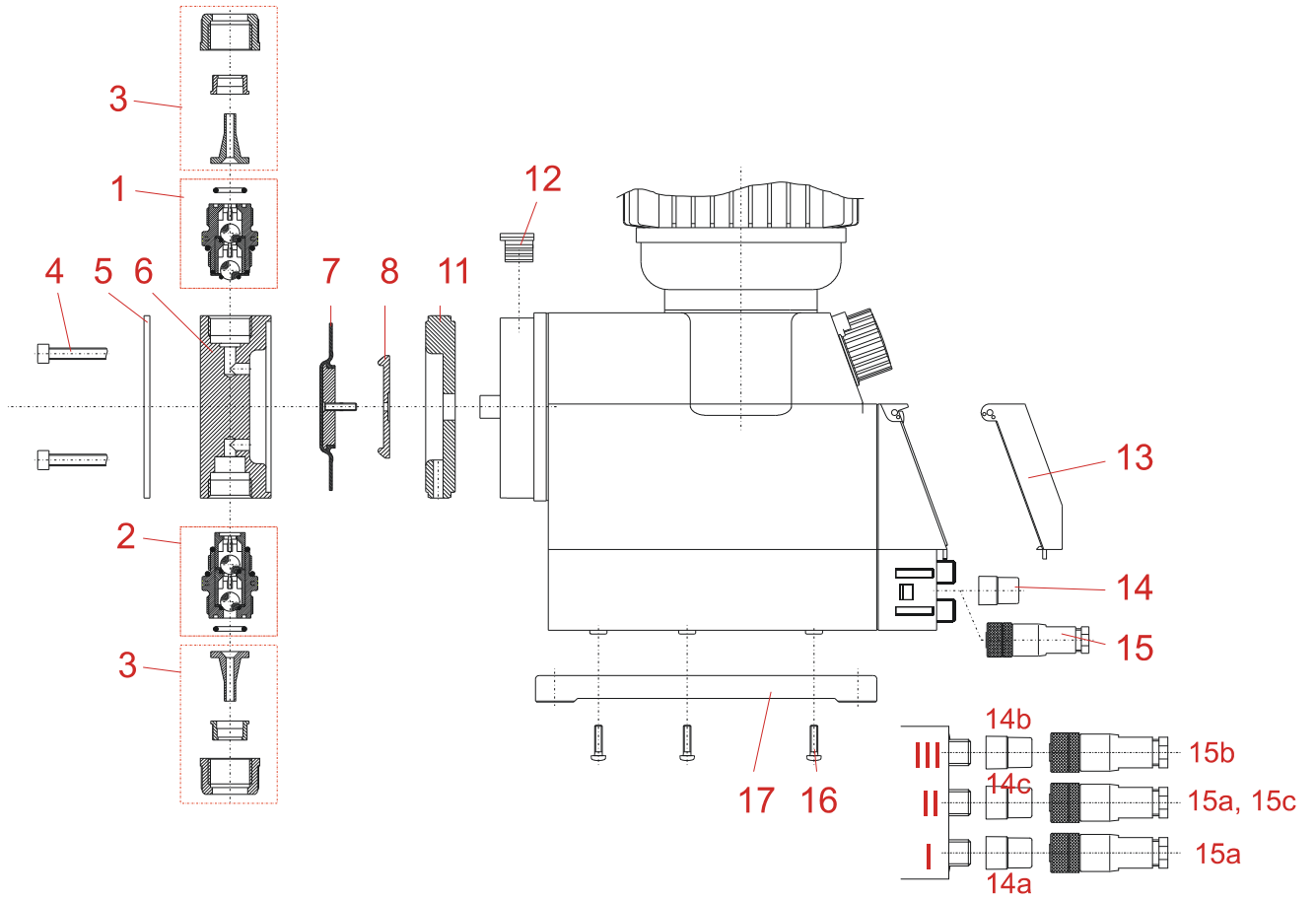
Article			Material-No.
<b>Suction and pressure lines</b>			
available by the meter			
(int.Ø/ext.Ø)	max. operating pressure (bar)		
	at 20° C		
	PVC-fabric 6/12 mm	16 bar	417400123
<b>Note: We explicitly point out that PVC fabric tubes have a limited lifetime if alkaline chemicals will be used. To avoid damage for your staff and your company the tubes have to be exchanged at least every 6 months. In case of non-compliance we exclude all kinds of liability and responsibility.</b>			
	PVC hose fully transparent 6/8 mm	0,5 bar	417400015
	PVC hose fully transparent 6/10 mm	0,5 bar	417400017
	PE hose 6/8 mm	8 bar	417400310
	PTFE hose 6/8 mm	14 bar	417400224
	PE-X tube 8/12 mm, coiled bundle 50 m		417400361
	PE-X tube 8/12 mm, coiled bundle 200 m		417400363
<b>Screw connection for PE-X tube</b>			
		<b>PP</b>	<b>PVDF</b>
	Screw fitting G1/4"a - PEX 8/12	207726	207716
	Screw fitting G3/8"a - PEX 8/12	207727	207717
	Screw fitting G1/2"a - PEX 8/12	207722	207712
		<b>PP</b>	<b>PVDF</b>
	Screw on connection G5/8"i - PEX 8/12	207724	207714
	Screw on connection G5/8"i - PEX 12/16	207728	207729

**ELADOS® EMP III  
Diaphragm Pump type 00160 - 00540  
Accessories (general)**

	Article	Material No.	
		PP	PVDF
	<b>T-Union</b> for PE-X tube 8/12	415102307	415102302
	<b>Straight union</b> for PE-X tube 8/12		415102065
	<b>Signal horn with integrated red flash light</b> 230 V / 50 Hz / IP 33 RO		418271053
	<b>Wall bracket</b> made of stainless steel 1.4301 incl. of attachment parts (dowels and screws)		286013
	<b>Connection cable, 5 m length</b> for empty signal input with straight 4-pin plug		418439001
	for pulse or current input with straight 5-pin plug		418439007
	for empty signal or stroke signal output with straight 4-pin plug		418439022

**ELADOS® EMP III  
Diaphragm Pump type 00160 - 00540  
Spare Parts**

Spare parts:



**ELADOS® EMP III**  
**Diaphragm Pump type 00160 - 00540**  
**Spare Parts**

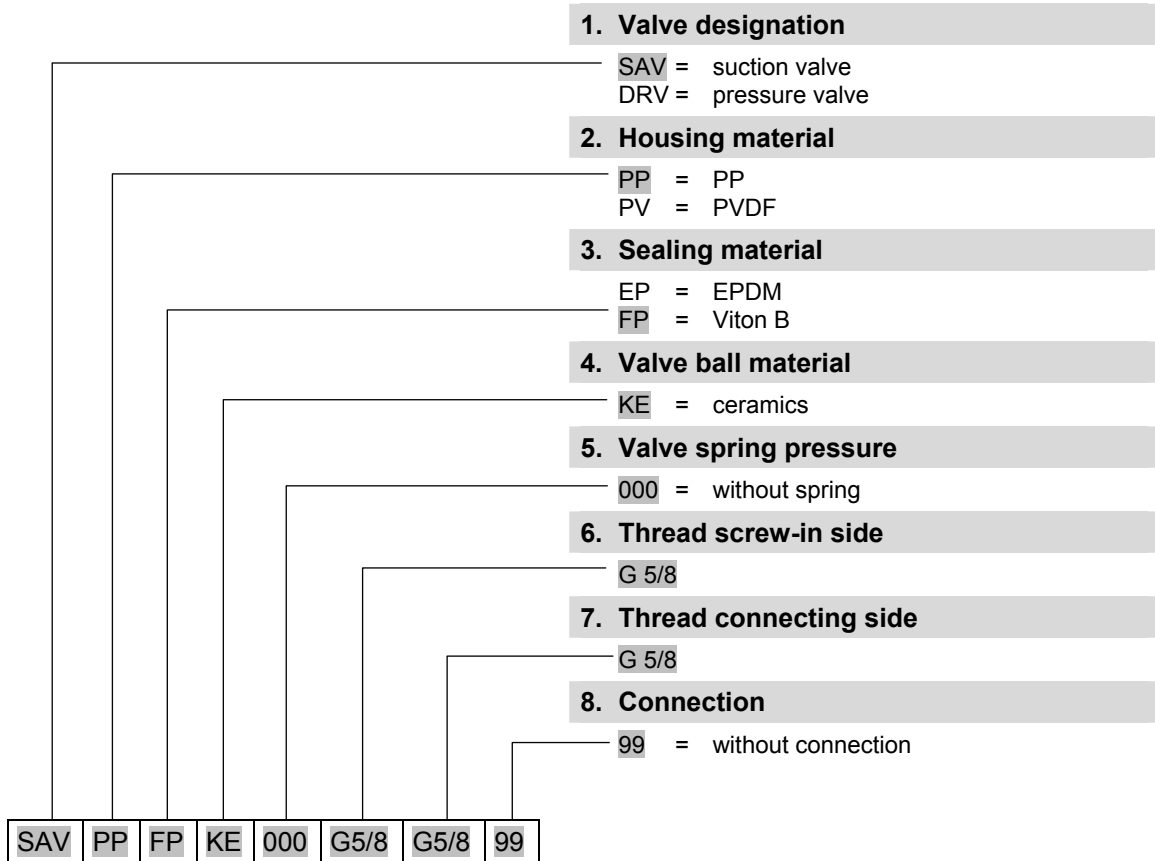
Item-No.	Article	Material-No.
1	Pressure valve DRV <b>PP FP</b> KE 000 G 5/8 – G 5/8 – 99*	249491
	DRV <b>PP EP</b> KE 000 G 5/8 – G 5/8 – 99*	249493
	DRV <b>PV FP</b> KE 000 G 5/8 – G 5/8 – 99*	249494
	DRV <b>PV EP</b> KE 000 G 5/8 – G 5/8 – 99*	249495
2	Suction valve SAV <b>PP FP</b> KE 000 G 5/8 – G 5/8 – 99*	249471
	SAV <b>PP EP</b> KE 000 G 5/8 – G 5/8 – 99*	249473
	SAV <b>PV FP</b> KE 000 G 5/8 – G 5/8 – 99*	249474
	SAV <b>PV EP</b> KE 000 G 5/8 – G 5/8 – 99*	249475
3	Connection set <b>PP</b> G 5/8 – 6/12, 10/16 mm	249237
	Connection set <b>PVDF</b> G 5/8 – 6/12, 10/16 mm (consisting of union nut, clamping piece and tapered parts)	249216
4	Pump head screw M6 x 90	413031048
5	Pressing plate	34900138
12	Covering stopper	34900168
13	Transparent enclosure cover	34800120
14a	Dummy plug empty signal input	248186
14b	Dummy plug control input	248187
14c	Cover cap control output	34800117
15a	4-pin plug, empty signal input	418463115
15b	4-pin plug, control output	418463117
15c	5-pin plug, control input	418463118
16	Screw KB 40 x 16	413071167
17	Mounting plate	34900120

Item-No.	Article	16 l/h	25 l/h	54 l/h
6	Pump head <b>PP</b>	34900102	34900103	34900104
	Pump head <b>PVDF</b>	34900175	34900176	34900177
7	Diaphragm	34900108	34900109	34900110
8	Supporting disk	34900131	34900113	34900145
11	Intermediate plate	34900132	34900115	34900133

\* Please see next page for code declaration.

**ELADOS® EMP III  
Diaphragm Pump type 00160 - 00540  
Spare Parts**

**Valve code**



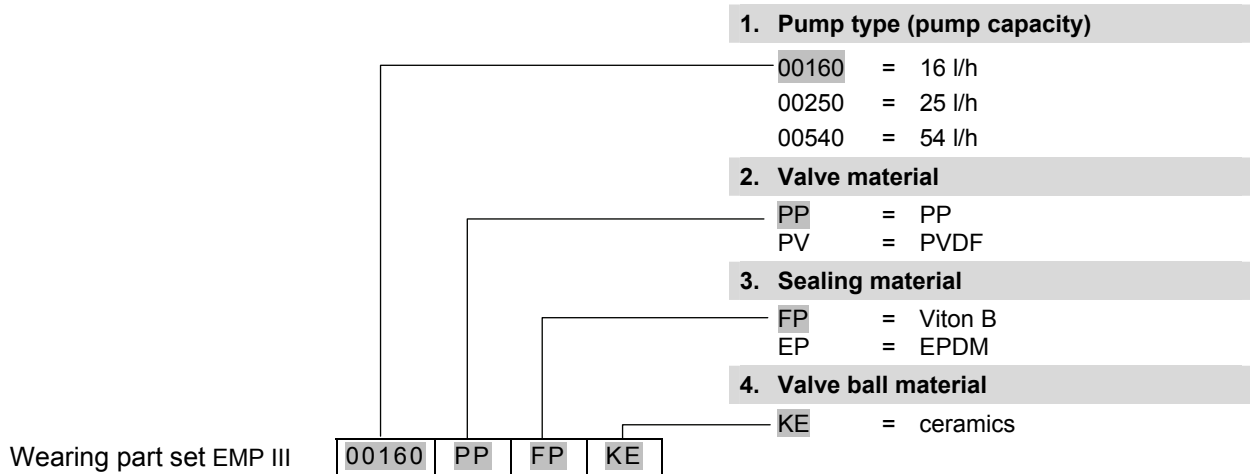
## ELADOS® EMP III Diaphragm Pump type 00160 - 00540 Wearing Parts

### Set of wearing parts (complete)

consisting of 1 piece each:

- Suction valve with hose connection material
- Pressure valve with hose connection material
- Diaphragms
- Supporting ring

Article	Code	Material-No.
<b>Wearing part set</b>	EMP III 00160 PP FP KE	249106
	EMP III 00250 PP FP KE	249111
	EMP III 00540 PP FP KE	249112
	EMP III 00160 PP EP KE	249113
	EMP III 00250 PP EP KE	249114
	EMP III 00540 PP EP KE	249115
	EMP III 00160 PV FP KE	249116
	EMP III 00250 PV FP KE	249117
	EMP III 00540 PV FP KE	249118
	EMP III 00160 PV EP KE	249119
	EMP III 00250 PV EP KE	249120
	EMP III 00540 PV EP KE	249123





**ELADOS® EMP III HP (High Pressure)  
Diaphragm Pump Type 00160 - 00250  
electronically controlled**

- **Mechanical stroke adjustment**
- **Stroke frequency regulation**
- **Pulse control**
- **Pulse multiplication and division**
- **Pulse memory**
- **Standard signal control**
- **Empty signal and low level warning**
- **External metering lock**
- **Empty signal and stroke signal output**



The ELADOS® EMP III series of metering pumps is constructed on the building block principle. It comprises the drive unit, the gear box unit, the metering pump head and the electronics. Different designs of drive option allow the pump to be

adapted to any processing sequence for quantity or proportional metering. The scope of delivery is rounded off by practical accessories, so forming a complete range of equipment for all metering uses.

**Note:** The pump versions EMP III HP (High Pressure) 00160 and 00250 can be operated with a higher metering back pressure.

**Technical Data:**

**Mechanical Data:**

<b>Pump type:</b>	<b>00160</b>	<b>00250</b>
<b>Pump capacity [l/h]:</b>	<b>14,7</b>	<b>23,5</b>
<b>Metering back-pressure [bar]:</b>	<b>16</b>	<b>12</b>
<b>Delivery per stroke [cm<sup>3</sup>]:</b>	<b>1,98</b>	<b>3,15</b>
Metering accuracy:	< ± 3 %	
Suction height:	2 mWs, suction height with clean, slightly wet valves	
Max. metering frequency:	124 1/min	
Pressure valve:	without spring	
Suction valve:	without spring	
Ambient temperature:	max. 40° C	

**Materials:**

Housing:	thermoplastic polyester
Pump head:	polypropylene <b>optional</b> PVDF, PVC or stainless steel 1.4571
Diaphragm:	PTFE - EPDM compound diaphragm
Seals:	FPM 602 (Viton B) <b>optional</b> EPDM or Kalrez
Valve balls:	Duran glass <b>optional</b> PTFE or stainless steel 1.4401
Weight:	7,4 kg
Colour:	blue RAL 5007

Special versions on request

**Electrical Data:**

Connection:	230 V / 50/60 Hz At a mains frequency of 60 Hz, delivery capacity increases by 20 %, whereas metering back-pressure decreases by 20 %. Special voltages on request
Current consumption [mA]:	950 (50 Hz)
Power output [W]:	90 (50 Hz)
Safety type:	IP 55
Insulation class:	F

All values at 50 Hz. All data refer to water temperature of 20° C according to the instructions of the technical manual, subject to!

### Pump code – part 1

#### 1. Electrical version (please see legend on page 7)

- E 00 mechanical stroke adjustment
- E 10 ...
- E 11 ...
- E 60** ...

#### 2. Pump capacity 50 Hz [60 Hz]

00160	=	14,7 l/h	[17,6 l/h]
00250	=	23,5 l/h	[28,2 l/h]

#### 3. Pump material

PP	=	PP	(standard)
PV	=	PVDF	
VA	=	stainless steel	

#### 4. Metering back pressure (depends on pump capacity)

12	=	12 bar (für 23,5 l/h)	[9,6 bar]
16	=	16 bar (für 14,7 l/h)	[12,8 bar]

#### 5. Sealing material

EP	=	EPDM	
FP	=	Viton B	(standard)
KA	=	kalrez	

#### 6. Valve ball material

KE	=	ceramics	(standard)
VA	=	stainless steel	
PT	=	teflon	

#### 7. Valve material

PP	=	PP	(standard)
PV	=	PVDF	
VA	=	stainless steel	

#### 8. Valve spring

99	=	without spring	(standard)
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#### 9. Mains supply

01	=	mains cable 2m shock-proof plug
02	=	mains cable 3-wired 2,4 m end sleeves
03	=	mains cable 3-wired 3 m end sleeves
09	=	mains cable USA version
13	=	mains cable Italy version
99	=	without cable

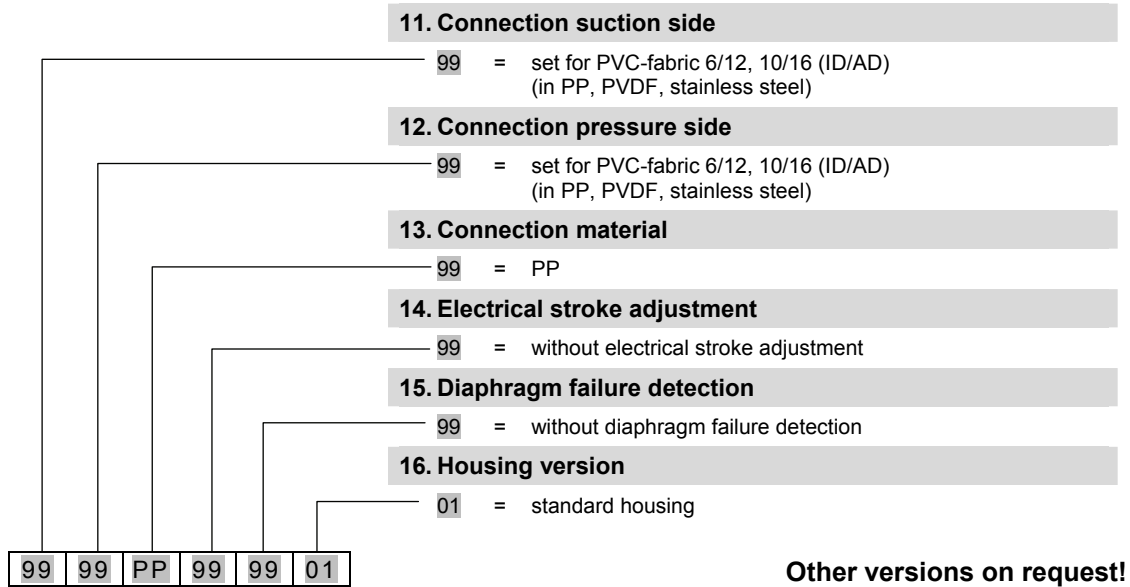
#### 10. Power supply

01	=	115V / 50 Hz	
02	=	115V / 60 Hz	
03	=	230V / 50 Hz	(standard)
04	=	230V / 60 Hz	
10	=	3PE 400/230 V 50/60 Hz (only for version E00)	

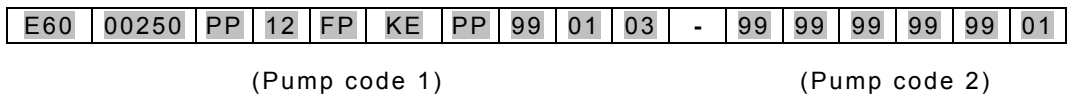
E60	00250	PP	12	FP	KE	PP	99	01	03
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**Other versions on request!**

### Pump code – part 2



Example of a complete pump code of a EMP III HP pump:



**Note:** For pump versions EMP II HP the hose connection material has to be ordered seperately (see page 30).

# ELADOS® EMP III HP

## Diaphragm Pump Type 00160 - 00250

### Accessories

#### Accessories:

**Note:** Accessories selection should be carried out in the following way:

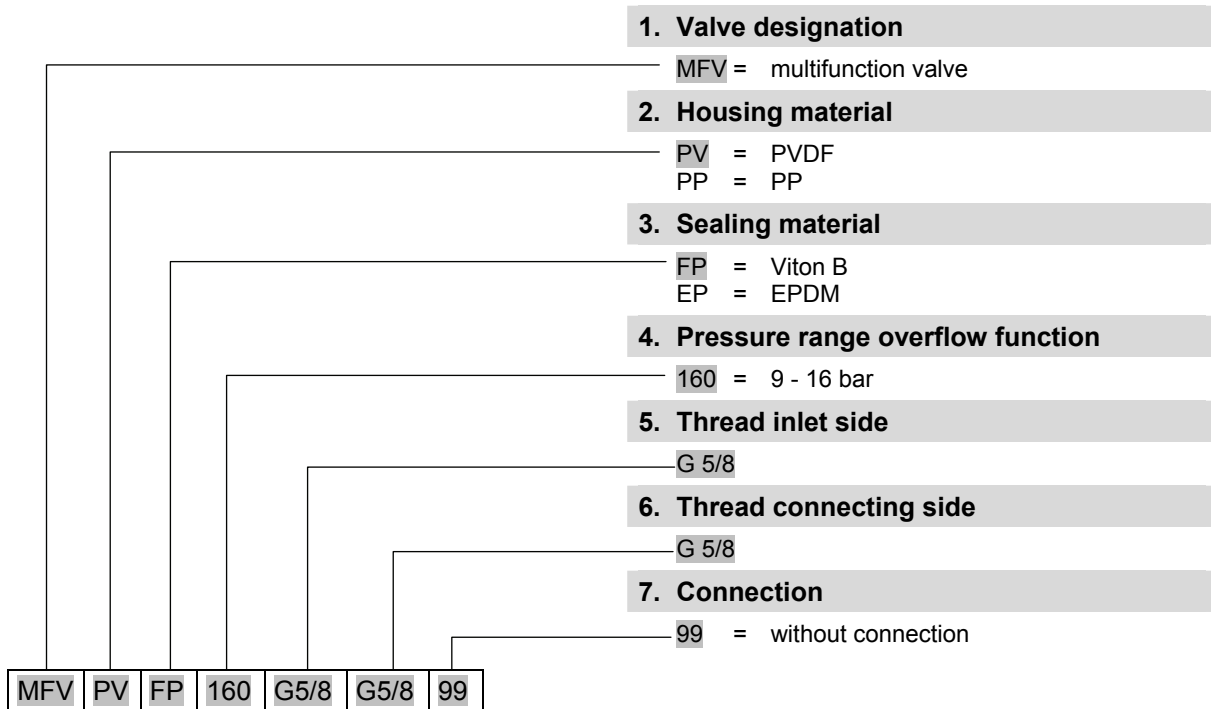
Accessories for the **suction side** can be selected from the standard versions (see page 10 – 14).

**General** accessories can be selected from the standard versions (see page 19/20)

Accessories for the **pressure side** have to be equipped with hose connection material which is suitable for high pressure. **This has to be ordered separately (see page 30).**

In case of multifunction valves and pressure hoses the accessories suitable for high pressure have to be used (see below).

#### Multifunction valve



This safety-relevant component serves the purpose of protecting the piping system and the metering pump and permits safe and reliable commissioning and maintenance of the system.

The multiple function valve combines all of the following functions: **overflow, pressure maintenance, venting and drainage**



Article	Material-No.
MFV PP FP 160 G 5/8 – G 5/8 – 99	249297
MFV PP EP 160 G 5/8 – G 5/8 – 99	249299
MFV PV FP 160 G 5/8 – G 5/8 – 99	249296
MFV PV EP 160 G 5/8 – G 5/8 – 99	249298

**ELADOS® EMP III HP**  
**Diaphragm Pump Type 00160 - 00250**  
**Accessories / Spare Parts**

**Article** **Material-No.**



**Connection material (pressure side)**

**Straight screw on connection PVDF**

Connection G5/8"i for hose 6/10

415102353

**Suction and pressure lines** (available by the metre)

(int.Ø/ext.Ø)

max. operating pressure [bar]  
at 20° C



PTFE hose 6/10 mm

16

417400216

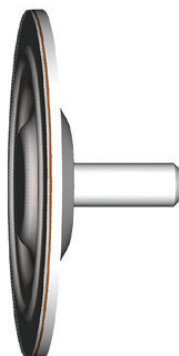


HD-PE hose 6/10 mm

16

417400302

**Note:** Spare parts for EMP III HP can be selected from the standard versions (see p. 21) with the exception of diaphragms.



**Diaphragme**

PTFE coated

for pump type 00160

34900288

for pump type 00250

34900289