



PULSE WATER METER, STRRERS; JULICTION AND SUCTION LANCES; TANKS AND CONTAINERS; COMPARED DOSINOS STATIONS; DOSING UNITS, POOL CHEM SERIES; DOSIANIX SANTATION SYSTEM STEEL Elettronica S.L.I. – Viale Europa, 24 – 35000 Ponte San Nicolo – PADOVA - ITALY Tel. - 39 049. 3951488 – Fax - 39 049. 3950184 – www.steleit.i. – Info@szielut.

Certified Company accordingly with UNI EN ISO 9001 quality standards



STEILL Elettronica began its career in 1973 as an individual company mainly focused in the production of small instruments for the control of chemical and physical parameters (pit-meters, redox and conductivity meters). Notwithstanding its limited facilities, the company developed a considerable involve how working closely with plant technicians and then turning its attention to the problem solving in the proper water treatment plants.

in a short time STEIEL, founded as a handicraft company, can carve its own space in a growing, but not particularly easy, area thanks to its constant attention to the relationships with the customers. The laboratory was based in Ponte S. Nicolò, in the south-east of Padua (Italy).

In 1986, STEEL fletronics became a limited company (Ixol) and two years later like hardcorft bloorstory changed into an indicatif acropany, paging more attention to the acquisition of direct specimens in the field of plast engineering, as well as focusing its aims to the design of new instruments and to the field of plast engineering, as well as focusing its aims to the design of new instruments and to the control of the c

To meet with the new business needs and with the continuous change of the market demands, in 1989 STEEL Elettronics began to design new lines of microprocessor-based instrumentation. In the same year the company started a marketing operation also aimed at the marketing of certain products considered as strategic for the completion of the STEEL products range, besides organizing a sales strategy likely to gain more market that.

Since 1991, the company has been able to penetrate the market because of the seriousness of its relationship with the customers and thanks to the relability of the products and service offered.

In 1995 the company moved to its current location in the industrial area of Ponte S. Nicolò, with working areas that better suit to its constant growth.

In 1998 the company obtained the certification of a very well-known quality and behavior system, which is formalized according to the UNI EN ISO 9001 standards.

### STEIEL Elettronica is divided into departments

- > INDUSTRIAL LINE / WATER TREATMENT: Instruments, sensors and dosine systems
- SWIMMING POOL LINE: Instruments, sensors and dosing systems
- OEM: Tailor-made devices, especially designed and manufactured accordingly with customer specific needs. Advanced and reliable instruments for a wide range of applications
- TECHNICAL TRAINING: Theoretical and practical courses for plant and maintenance technicians on electronic equipment, on its proper use and maintenance
- TECHNICAL SERVICE AND MAINTENANCE: After-sale technical support and periodic maintenance service, performed by specialized technical personnel



# PAB, PAC, PDF, PDS PUMPS - PUMP HEAD



Ref. drawing Description		
1	Threaded nut	
. 2	Pipe wrench	
3 .	Pipe holder for tube 4x6 or 8x12	
4	Head valve with ceramic ball	
5	O-ring supplied with the ball valve	
- 6	Suction valve with ceramic ball	
7	Bleeding group, complete with O-ring	



## EF155 SERIES - ELECTROMAGNETIC ON/OFF PUMPS with DISPLAY and KEYBOARD



The ON/OFF electromagnetic pumps of the EF155 series mount a pump head with Pyrex ball valves, and a relief valve that facilitates pump priming The working frequency may be easily adjusted by the user through the front keys and displayed value.

These pumps also feature an input for level sensor (with consequent lock of the pump upon lacking of dosing reagent), and an optional input for external

Thanks to the constructive characteristics and great versatility, the EF155 pumps are suitable for dosing chemicals in a wide range of applications, such as swimming pools, industrial water treatment, disinfection systems, etc.

### TECHNICAL DATA Display

Materials

Weight

Working Frequency

adjustable from 0 to 140 injection LED. 3 digits

Inputs voltage-free contacts; 1 input for level (or flow) sensor;

1 input for external consent (optional) Casing:

Pump head: PVDF (also with auto-purge option) or PP Membrane PTFE

Pyrex ball (ceramic or AISI316L upon request) or lip valve Seals FPM (EPDM or PTFE upon request)

Power Supply 230 V~ ±10%, 50 Hz (115 V~ upon request)

Protection Rate IP65 Dimensions 150 x 200 x 135 mm approx. 5 kg

### **AVAILABLE MODELS**

EF155: Basic model, ON/OFF pump

EF156: Version with two timers for setting work and pause times

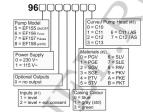
EF157 : Version with pulse input for water meter

. EF158: Version with built-in pH/RX meter; electrode input on BNC connector



### EF155 SERIES - ORDERING CODES#

Use the below diagram to build the code of the pump that best meets your application needs.



- 81 inputs: the external consent input is always provided for model FF157 (pulses), while for the remaining versions is an optional input (to be requested upon order).
- #2 PGV = PVDF pump head, Pyrex ball valves, FPM seals DOD = PVDF pump head. Pyrex ball valves. EPDM seals
  - SGV = PP pump head, Pyrex ball valves, FPM seals SGE = PP pump head. Pyrex ball valves. EPDM seals
    - = PVDF pump head, Pyrex ball valves, PTFE / FPM seals STV # PP numn heart. Purey hall valves. PTFF / FPM seals
    - = PP pump head, lip valves and FPM seals SIF = PP pump head, lip valves and EPDM seals PAV = PVDF pump head. AISI 316L ball valves. FPM seals
    - PKV = PVDF pump head, ceramic ball valves, FPM seals PKE = PVDF nump head, ceramic ball valves, EPDM seals Flow rate curve (see page 20) / "AS" Pump head a with auto-puree valve
- PKT # PVDF pump head, ceramic ball valves, PTFE / FPM seals
- All pumps of the EF155 series come with foot filter, injection valve, 4x6 semi-rigid PE injection tube (2 m), ), 4x6 PVC Crystal suction and purge tubes (2+2 m), prewired power cable and technical manual.



# EF150 SERIES – COMPACT ELECTROMAGNETIC ON/OFF PUMPS with DISPLAY and KEYBOARD



These electromagnetic pumps with membrane and ON/OFF command, mount a new design magnet and a pump head with ceramic double sphere valves, and relief valve that facilitate pump priming.

The flow rate may be easily adjusted by the user through the front keys and

displayed value.

These pumps also feature an input for level sensor for controlling the tank

These pumps also feature an input for level sensor for controlling the tank level, with consequent lock of the pump upon lacking of dosing reagent. These pumps have been designed especially for swimming pool applications and are also suitable for presssembled panels.

### TECHNICAL DATA

Working Frequency adjustable from 0 to 140 injections/min
Display LED, 3 digits
Inputs woltage-free contacts;

Inputs voltage-free contacts; 1 input for level (or flow) sensor;

1 input for external consent (optional Materials Casing: PP

Pump head: PVDF or PP

Membrane: PTFE
Valves: Pyrex ball or to valve

Seals: FPM (EPDM or PTFE upon request)
Power Supply 230 V\* ±10%, 50 Hz (115 V\* upon request)
Protection Rate IP65

Protection Rate IP65
Dimensions 139 x 97 x 119 mm
Weight approx 3 kg

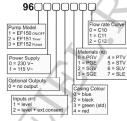
# AVAILABLE MODELS • EF150 : Basic model, ON/OFF pump

- EF150 : Basic model, UN/OFF pump
- . EF151: Version with two timers for setting work and pause times
- . EF152: Version with pulse input for water meter



### EF150 SERIES - ORDERING CODES

Use the below diagram to build the code of the pump that best meets your application needs

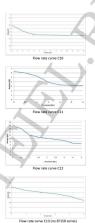


- #1 Inputs: the external consent input is always provided for model EF152 (pulses), while for the remaining versions is an optional input (to be requested upon order)
  - 12 PGV = PVDF pump head, Pyrex ball valves, FPM seals
    - SGV = PP pump head, Pyrex ball valves, EPDM seals SGE = PP pump head, Pyrex ball valves, EPDM seals
    - PTV = PVDF pump head, Pyrex ball valves, PTFE / FPM seals STV = PP pump head, Pyrex ball valves, PTFE / FPM seals
    - SLV = PP pump head, lip valves and FPM seals SLE = PP pump head, lip valves and EPDM seals

All pumps of the EF150 series come with foot filter, injection valve, 4x6 semi-rigid PE injection tube (2 m), ), 4x6 PVC Crystal suction and purge tubes (2+2 m), prewired power cable and technical manual.



# EF160, EF155, EF150 SERIES – FLOW RATE CURVES





## EF160, EF155, EF150 SERIES - PUMP HÉAD

### Standard pump head



Pump head with auto-purge valve (no EF150 series)



Ref. Irawing	Description	
1	%" threaded nipple	
2	Pipe wrench for 4x6 tube	
3	Pipe holder for 4x6 tube	
4	Delivery ball valve	
5	Purge valve with O-ring	
6	O-ring for pump head	
7	Suction ball valve	
8	Ball container	
9	Valve ball	
10	Q-ring for valve	

Ref. drawing	Description	
1	%" threaded nipple	
2	Pipe wrench for 4x6 tube	
3	Pipe holder for 4x6 tube	
4	Ball valve group	
5	Auto-purge container complete with O-ring	
6	Valve ball	
7	O-ring for valve	
8	Ball valve group with spring	
9	Pump head	
10	O-ring for pump head	

# PERISTALTIC DOSING PUMPS EF106 SERIES – Adjustable Flow Rate, Closed Casing



The EF106 peristaltic pumps feature adjustable flow rate and small size, require easy installation and maintenance operations, and have been designed for wall installation. The flow rate can be adjusted by the user through a dedicated trimmer.

The EF106 pumps are suitable to a wide range of applications, from chemical to food industry, from disinfection systems to swimming pools.

These pumps are supplied complete with bracket for wall installation, power cable (2.5 m), technical manual and a standard kit (code 9600.0100), which includes PVC Crystal suction pipe (2 m), PE injection pipe (2 m), injection valve and foot filter.

### TECHNICAL DATA

TECHNICAL DATA

Materials Casing: 30% fiberglass reinforced PP

Front panel: Polycarbonate

Roller holder: P8T
Roller: Delrin (self-lubricant)
Internal tube: Santoprene or silicone
Fittings: PP

Fittings: PP

External tube 4x6 mm

Power Supply 230 V\* or multi-voltage 20-230 V\*

Protection Rate 1965

Protection Rate IP65
Dimensions / Weight H 125 x L 85 x 105.5 mm / approx. 700 g

EF106/A-10/3-S	230 V~	1.0 l/h	3	Santoprene	9592.0501
EF106/A-40/1-5	230 V~	4.0 l/h	1	Santoprene	9592.0503
EF106/A-60/1-5	230 V~	6.0 l/h	1	Santoprene	9592.0504
EF106/A-10/3-N	230 V~	1.0 l/h	3	Silicone	9592.0510
EF106/A-40/1-N	230 V~	4.0 l/h	1	Silicone	9592.0513
EF106/A-60/1-N	230 V~	6.0 l/h	1	Silicone	9592.0514
EF105/M-10/3-S	20-230 V~	1.0 l/h	3	Santoprene	9592.5501
EF105/M-40/1-S	20-230 V~	4.0 l/h	1	Santoprene	9592.5503
EF106/M-60/1-S	20-230 V~	6.0 l/h	1	Santoprene	9592.5504
EF106/M-10/3-N	20-230 V~	1.0 l/h	3	Silicone	9592.5510
EF106/M-40/1-N	20-230 V~	4.0 l/h	1	Silicone	9592.5513
EF106/M-60/1-N	20-230 V~	6.0 l/h	1	Silicone	9592.5514



### EF110 – DIGITAL PERISTALTIC PUMP WITH BUILT-IN pH/RX METER



EF110 is a series of fix flow rate, digital, peristaltic pumps with built-in pH / redox meter, designed for wall installation.

The measured value is constantly displayed, and the alarm LED blinks

upon error.

Applicazioni tipiche di queste pompe sono il trattamento acque and piscine di piccole dimensioni.

piscine di piccole dimensioni.

Typical applications of these pumps are water treatment and residential swimming pools.

The EF110 pumps are supplied complete with mounting bracket for

wall installation, suction and injection tubes, pit or redox electrode installation to the property of the pr

# TECHNICAL DATA

1.8 I/h ⊕ 1 bar; other versions upon request (0.6, 1.2, 2.4 I/h ⊕ 1 bar) LED. 3 diets

Display LEO, 3 digits
Level Input available on special connector, accepts 5V/5mA contact
pH/RX Input available on BNC connector, input impedance > 10\*12 Ohm,
precision better than 1% FS, repeatability better than 0.7% FS

precision better than 1% FS, repeatabilit
Measure Ranges 0.00 to 14.00 pH ; 0 to +999 mV (redox)

PP case and fittings, polycarbonate keypad and protection, PBT roller holders with Delrin (self-ubricant) rollers, Santoprene or silicone internal nube

Suction/Head Tube 4x6 mm

Power Supply 230 V\*, 50 Hz, single-phase; max 10 VA

Electrical Protection fuse 1 A (@ 230 V), 5x20 mm

Provingment Working Temperature max 45°C

Storage Temperature max 60°C RH max 90% no condensing Protection Rate IP65 IP60 x 135 mm / announce 2 kg

ORDERING CODE: 9593,0503 (standard version 1.8 l/h, green case)

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# MAINTENANCE KITS, SPARE PARTS and ACCESSORIES for PUMPS

### SPARE PARTS FOR PAB. PAC. PDF. PDS SERIES

Item	Code	Description
	KIT1-PKV-C1/C2/C3 9700.1000	Kit 1 for periodic maintenance of pumps with C1/C2/C3 flow rate curve and FPM seals: 2 ceramic ball valves and 1 O-ring for pump head
III III C	KIT1-PKV-C4 9700.1001	Kit 1 for periodic maintenance of pumps with C4 flow rate curve and FPM seals: 2 ceramic ball valves and 1 O-ring for pump head
	KIT1-PKE-C1/C2/C3 9700.1002	Kit 1 for periodic maintenance of pumps with C1/C2/C3 flow rate curve and EPDM seals: 2 ceramic ball valves and 10-ring for pump head
BH 111	KIT1-PKE-C4 9700.1003	Kit 1 for periodic maintenance of pumps with C4 flow rate curve and EPDM seals: 2 ceramic ball valves and 1 O-ring for pump head
O	KST2-PKV-C1/C2/C3 9700.1011	Kit 2 for periodic maintenance of pumps with C1/C2/C3 flow rate curve and FPM seats: foot filter with PVDF bod and lip valve, injection valve with PVDF body and ceramic ball, PVC Crystal tube for suction and purse, PE head tube
	KTZ-PKV-C4 9700.1012	Kit 2 for periodic maintenance of pumps with C4 flow rate curve and FPM seals: foot filter with PVDF bod and lip valve, injection valve with PVDF body and ceramic ball, PVC Crystal tube for suction and purge, PE head tube
O	KIT2-PKE-C1/C2/C3 9700.1016	Kit 2 for periodic maintenance of pumps with C1/C2/C3 flow rate curve and EPDM seals: foot filter with PVDF bod and lip valve, injection valve with PVDF body and ceramic ball, PVC Crystal tube for suction and purge, PE head tube
	KIT2-PKE-C4 9700.1017	Kit 2 for periodic maintenance of pumps with C4 flow rate curve and EPDM seals: foot filter with PVDF body and Ip valve, injection valve with PVDF body and ceramic ball, PVC Crystal tube for suction and purge, PE head tube

Item



9700 1031

KIT3-PKV-C4

VITS-DVE-CA

KIT4-C1/C2/C3

9700 1035

9700 1100

9700 1101 KITS-C1/C3

9700 1110 KITS-C2

9700 1111 KITS-C4

9700.1112

KIT3-PKF-C1/C2/C3 9700 1034

9700.1032

### Description





Complete pump head for pumps with C4 flow curve. PVDF body with ceramic ball valve and FPM seals. Complete pump head for pumps with C1/C2/C3 curve. PVDF body with geramic ball valve and EPDM seals Complete pump head for pumps with C4 curve. PVDF

horly with ceramic hall valve and EPDM seals. PTFE diaphraem for pumps with C1/C2/C3 curve.

PTFE diaphragm for pumps with C4 flow rate curve. Magnet for pumps with C1/C3 flow rate curve.

Magnet for pumps with C2 flow rate curve.

Magnet for numps with C4 flow rate curve. Kit 6 for periodic maintenance of pumps with C1/C2/C3 flow rate curve and FPM seals: suction valve, head valve, O-ring for pump head sealing, Oring for pump head beat, foot filter, injection valve,





KITG-PKE-C1/C2/C3

bland water

Kit 6 for periodic maintenance of pumps with C4 flow râte curve and FPM seals: suction valve, head valve, O-ring for pump head sealing. O-ring for pump head heat, foot filter, injection valve, bleed valve Kit 6 for periodic maintenance of pumps with C1/C2/C3 flow rate curve and FPM seals: suction valve, head valve, O-ring for nump head sealing. Ouring for numn head heat foot filter, injection valve.

9700.1045 KITG-PKF-C4 9700.1046

KIT7-C1/C2/C3

Kit 6 for periodic maintenance of numps with C4 flow rate curve and FPM seals: suction valve, head valve, O-ring for pump head sealing, O-ring for pump head beat, foot filter, injection valve, bleed valve Kit 7 for periodic maintenance of numos with

9700 1050 KITZ-CA 9700 1055

C1/C2/C3 flow rate curve: 10 threaded nipples, 10 pipe wrenches, 10 pipe holders for 4x6 tube Kit 7 for periodic maintenance of pumps with C4 flow rate curve: 10 threaded nipples, 10 pine wrenches, 10 pipe holders for 8x12 tube





tem	Code	Description
T	KIT8-PKV 9700.1058	Bleed system with FPM O-rings
	KITS-PKE 9700 1059	Bleed system with EPDM O-rings
	KIT9-PKV-C1/C2/C	Spare injection valves with PVDF body and FPM seals
	9700.1060	for pumps with C1/C2/C3 flow curve (5 pieces)
	KIT9-PKV-C1/C2/C	
////	9700.1065	for pumps with C1/C2/C3 flow curve (5 pieces)
400	KIT9-PKV-C4	Spare injection valves with PVDF body and FPM seals
	9700.1061	for pumps with C4 flow curve (5 pieces)
	KIT9-PKV-C4	Spare injection valves with PVDF body and EPDM seal
	9700.1066	for pumps with C4 flow curve (5 pieces)
	9700.1200	Spare electronic board for pump PAB-C1, 100-240 V**
	9700.1201	Spare electronic board for pump PAB-C2, 100-240 V**
	9700.1202	Spare electronic board for pump PAB-C3, 100-240 V*
	9700.1203	Spare electronic board for pump PAB-C4, 100-240 V**
	9700.1204	Spare electronic board for PAC/EF159-C1, 100-240V*
	9700.1205	Spare electronic board for PAC/EF159-C2, 100-240V*
100	9700.1206	Spare electronic board for PAC/EF159-C3, 100-240V*
	9700.1207	Spare electronic board for PAC/EF159-C4, 100-240V*
1. 10	9700.1208	Spare electronic board for PDF/PDP-C1, 100-240 V**
	9700.1209	Spare electronic board for PDF/PDP -C2, 100-240 V**
100	9700.1210	Spare electronic board for PDF/PDP -C3, 100-240 V~
	9700.1211	Spare electronic board for PDF/PDP -C4, 100-240 V**
	9700.1212	Spare electronic board for pump PDS-C1, 100-240 V*
	9700.1213	Spare electronic board for pump PDS-C2, 100-240 V*
	9700.1214	Spare electronic board for pump PDS-C3, 100-240 V <sup>∞</sup>
	9700.1215	Spare electronic board for pump PDS-C4, 100-240 V*
	9700.9001	SLP1: Level sensor with 2 m cable and connector for PAB, PAC, PDF, PDS pumps
-	9700.0500	SMP: Mounting bracket complete with screws and stoppers for PAB, PAC, PDF, PDS pumps
-	9700.9003	SFP: Flow sensor for PAC, PDF, PDS pumps



### SPARE PARTS FOR EF160, EF155, EF150 SERIES

### EFK1 Maintenance Kit: Complete Pump Head







Ordering Code (#1):

9700.2100/xyz : spare head for pumps with C10 flow rate curve 9700.2101/xyz : spare head for pumps with C11/C12 flow rate curve 9700.2102/xyz : spare head for pumps with C13 flow rate curve 9700.2106/xyz : spare head for pumps with C11/C12 flow rate curve and autopumps valve

### Maintenance Kit with Valves

EFK2 - Kit suction/head valves	EFK3 - Kit suction/head/purge valves and O-ring for pump head	EFK6 – Standard accessories kit: foot filter, injection valve, 4x6 PVC Crystal tube (4 m), 4x6 PE tube (2 m)	Injection valve	Foot filter
33	0	00	80	
	011	00		
Ordering Code 9700.2000/xyz (#1)	Ordering Code 9700,2001/xyz (#1)	Ordering Code 9700.2010/xyz (#1)	Ordering Code 9700.2012/xyz (#1)	Ordering Code 9700.2013/xyz (#1)

### Note #1 - The "xyz" field is used to specify the materials as follows:

- PGV = PVDF head. Pvrex ball valves. FPM seals
- PGF = PVDF head. Pyrex ball valves. FPDM seals SGV = PP head. Pyrex ball valves. FPM seals
- SGE = PP head, Pyrex ball valves, EPDM seals PTV = PVDF head. Purex hall valves. PTFF / FPM seals
- STV = PP head, Pyrex ball valves, PTFE / FPM seals
- SIV = 99 head. In valves and EPM seals
- SLE = PP head. lip valves and EPDM seals
- PAV = PVDF head, AISI 316L ball valves, FPM seals PKV = PVDF head, ceramic ball valves, FPM seals
- PKE = PVDF head, ceramic ball valves, EPDM seals PKT = PVDF head ceramic hall valves. PTFF / FPM seals

### EFK4 Maintenance Kit: Flange, Diaphragm and O-ring for Pump Head





Ordering Code:

9700 2020: space parts for numps with C10 flow rate curve. FPM O-ring 9700.2021: spare parts for pumps with C11/C12 flow rate curve, FPM O-ring 9700.2022: spare parts for pumps with C13 flow rate curve, FPM O-ring 9700.2040; spare parts for pumps with C10 flow rate curve, EPDM O-ring 9700.2041: spare parts for pumps with C11/C12 flow rate curve, EPDM O-ring 9700.2042: spare parts for pumps with C13 flow rate curve, EPDM O-ring

### EFKS Maintenance Kit: Purge Valve with O-rin





Ordering Codes 9700.2025: PVDF body with FPM seals 9700 2026: PP body with FPM seals

9700.2045: PVDF body with EPDM seals 9700.2046: PP body with EPDM seals

### Electronic Boards (for qualified technicians only)







Spare and tested electronic boards are available for all pumps of the EF150, EF155 and EF160 series. Please contact STEIEL Elettronica for replacement instructions and details.



Item	Code	Description
1000	9700.2130	Spare magnet for pumps with C10/C11 curve
( O .	9700.2131	Spare magnet for pumps with C12 curve
	9700.2132	Spare magnet for pumps with C13 curve
	9700.9002	SLP2: Level sensor with 2 m cable and connector for EF150 / EF155 pump series
0	9700.9006	SLP3: Level sensor with 2 m cable and connector for EF160 pump series
0	5130.0526	CON16/F: Female axial connector (M8) for wiring of EF160 pump series
-1	9700.9022	NPN flow sensor with %" connections and fitting for 4x6 tube, 40 cm cable with M8 connector for EF160 pump series
4	9700.2140	Kit EFK7: Plastic bracket with screws and stoppers for wall installation of EF150, EF155 and EF160 pum series
1	9700.2141	Kit EFK78: Plastic bracket for horizontal mounting of EF150, EF155 and EF160 pump series



### SPARE PARTS FOR PERISTALTIC PUMPS

tem	Code	Description
do	9600.0100	Kit of standard accessories for peristaltic pump: 4x6 PVC Crystal tube (2 m), 4x6 semi-rigid PE tube (2 m), injection valve and foot filter
	9700.2012/SLV	Injection valve for peristaltic pumps. PP body, FPM seals
	9700.2013/SLV	Foot filter for peristaltic pumps. PP body, FPM seals
	9600.0140	Spare head with inserts for peristaltic pumps EF100/EF110/EF125
	9600.0130	Transparent protection cover for pumps EF100/EF110/EF125
1000	9600.0300	Gear-motor 230 V* for pumps EF100 0.2 I/h
	9600.0301	Gear-motor 230 V* for pumps EF100 0.6 I/h
200	9600.0302	Gear-motor 230 V <sup></sup> for pumps EF100 1.2 I/h
1	9600.0303	Gear-motor 230 V~ for pumps EF100/EF110 1.8 l/h
	9600.0304	Gear-motor 230 V~ for pumps EF100/EF125 2.4 I/h
$\smile$	9600.0325	Gear-motor 24 V- for pumps EF100 6 l/h
	9600.0200	Santoprene internal tube for pumps EF100 0.2 I/h
	9600.0201	Santoprene internal tube for pumps EF100 / EF110 / EF125 0.6 / 1.2 / 1.8 / 2.4 l/h
~	9600.0210	Silicone internal tube for pumps EF100 0.2 l/h
1	9600.0211	Silicone internal tube for pumps EF100 / EF110 / EF125 0.6 / 1.2 / 1.8 / 2.4 l/h
	9600.0220	Tygon internal tube for pumps EF100 0.2 I/h
	9600.0221	Tygon internal tube for pumps EF100 / EF110 / EF129 0.6 / 1.2 / 1.8 / 2.4 Vh
-	9600.0400	Roller-holder with Delrin holder for EF100 0.2 l/h
-	9600.0401	Roller-holder with Delrin holder for pumps EF100 / EF110 / EF125 0.6 / 1.2 / 1.8 / 2.4 l/h
10	9600.0145	Spare head with inserts for peristaltic pumps EF105 / EF106



Item	Code	Description
	9600.0131	Transparent protection cover for pumps EF105 / EF106
-	9600.0310	Gear-motor 20-230 V* per EF105 / EF106 1 I/h
	9600.0311	Gear-motor 20-230 V per EF105 / EF106 1.5 l/h
200	9600.0312	Gear-motor 20-230 V* per EF105 / EF106 3 I/h
1	9600.0313	Gear-motor 20-230 V" per EF105 / EF106 4 I/h
( ))	9600.0314	Gear-motor 20-230 V" per EF105 / EF106 6 I/h
	9600.0315	Gear-motor 20-230 V* per EF105 / EF106 12 I/h
	9600.0232	Santoprene internal tube for pumps EF105 / EF106 1.5 / 3 / 4 / 6 l/h
	9600.0240	Silicone Internal tube for pumps EF105 / EF106 1 l/h a 3 bar
	9600.0241	Silicone internal tube for pumps EF105 / EF106 3 / 4 / 6 l/h
	9600.0252	Tygon internal tube for pumps EF105 / EF106 1.5 / 3 / 4 / 6 l/h
603	9600.0410	Roller-holder with Delrin holder for EF105 / EF106
881	Kit pH / EF 8009.9903	Not pH for pumps EF110 and EF158: pH electrode with 2.5 m cable and BNC connector, pH4 and pH7 buffer solutions (90 ml each) and electrode-holder with DN50 support for in-line installation
A C	Kit RX / EF 8009.9904	Kit RX for pumps EF110 and EF158: redox electrode with platinum sensor, 2.5 m cable and BNC, 220 mV calibration solution (90 ml) and electrode-holder with DNS0 support for in-line installation
	9700.9002	SLP2: Level sensor with 2 m cable and connector
0	8009.2221	EURO2221-pH: pH electrode with 2.5 m cable and BNi connector
	8019.2221	EURO2221-RX: Redox/platinum electrode with 2.5 m cable and BNC connector



### ACCESSORIES FOR DOSING PUMPS

Item	Code	Description
	9700.0293	PTFE, 4x6 tube, sold by meter
	9700.0296	PTFE, 8x12 tube, sold by meter
	9700.0294	PVDF, 4x6 tube, sold by meter
	9700.0280	PVC Crystal, 4x6 tube, sold by meter
	9700.0285	PVC Crystal, 8x12 tube, sold by meter
	9700.0290	PE, 4x6 tube, sold by meter
	9700.0295	PE, 8x12 tube, sold by meter
.00	3630.7705	Collar clamp for tube dia. 40 mm. Connection %" for injection valves or S92 series of electrode-holders
	3630.7706	Collar clamp for tube dia. 50 mm. Connection ½" for injection valves or \$92 series of electrode-holders
	3630.7707	Collar clamp for tube dia. 63 mm. Connection ½" for injection valves or S92 series of electrode-holders
•	9976.1021	Anti-siphon valve kit for dosing pumps
<b>P</b>	8050.9090	Pressure relief kit, complete with manometer and pressure relief valve