



Technical Data

Injectors > Electrical Dosing Pumps

> Piston Dostec AC with Inverter

Code	Model	Coupling Ø	P _{max} - bar	l/h _{max}
FER700	73-AC3P44-P110PPX	1"¼	5,5	1.200
FER701	73-AC3P44-P95PPX	1"¼	7,5	900
FER702	73-AC3P44-P77PPX	1"¼	11,0	600
FER703	73-AC2P44-P61PPM	¾"	7,0	360
FER704	73-AC2P44-P49PPM	¾"	11,0	240
FER705	73-AC2P44-P34PPM	¾"	15,0	120



DESCRIPTION:

Application

- Fertilizers injection by inverter electro-mechanical system
- High-performing injection both in flow-rate and in pressure

Features

- Injection by piloting (electronic card)
- Settable and/or usable parameter for injection: analog control (4/20 mA) - proportional-continuous control-modBus
- Self-supporting injection system with support and fixing
- Injection by PTFE membrane
- Oil level

Specifics

- Engine:*
- single-phase 230V 50Hz
 - power 0,37Kw (0,5Hp)
 - IP-55 protection
 - Weight: ca 10 Kg

Materials

- Head:*
- PEUAPM piston (ultra-high molecular weight polyethylene)
 - Retention FPM
 - Cylinder: PP
 - Other materials for particular solution injection on request
- Valves:*
- PP body
 - glass ball
 - FPM o-ring

> Membrane Dostec AC with Inverter

Code	Model	Coupling Ø	P _{max} - bar	l/h _{max}
FER706	73-AC3D44-D163PBX	1"¼	5,0	1.044
FER708	73-AC3D43-D142PBX	1"¼	10,0	498
FER709	73-AC3D33-D142PBX	1"¼	10,0	249
FER710	73-AC2D42-D95PBM	¾"	8,0	144

DESCRIPTION:

Application

- Fertilizers injection by inverter electro-mechanical system
- High-performing injection both in flow-rate and in pressure

Features

- Injection by piloting (electronic card)
- Settable and/or usable parameter for injection: analog control (4/20 mA) - proportional-continuous control-modBus
- Self-supporting injection system with support and fixing
- Injection by PTFE membrane
- Oil level

Specifics

- Engine:*
- single-phase 230V 50Hz
 - power 0,37Kw (0,5Hp)
 - IP-55 protection
 - Weight: ca 10 Kg

Materials

- Head:*
- PTFE membrane
 - PP base
 - PP cylinder
 - Other materials for particular solution injection on request
- Valves:*
- PP body
 - glass ball
 - FPM o-ring



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MOTOR - INVERTER

- Power with piston 0.37 KW (0.5 Hp)
- Power with membrane 0.75 KW (1 Hp)
- Voltage 110 V (0.43 KW)
- 230 V (0.43 KW 1.2 KW)
- Frequency 50Hz / 60Hz
- r.p.m 1680
- IP-55 protection
- Ambient temperature 0 ÷ 45 °C
- PP material temperature: 0 ÷ 50 °C
- PVDF: -10 ÷ 50 °C
- SS: -10 ÷ 60 °C
- Relative humidity max: 95% (non-condensing)

OPERATING MODES

- Analog control (0 / 4-20mA)
- Proportional impulse control
- Batch dosing control
- ModBus supervision control
- Manual flow control

ADDITIONAL SAFETY DEVICES

- Thermometer
- Overload and short circuit protection
- Level sensor (optional)

- Diaphragm leak detector (optional)
- Pressure sensor (optional)
- Flow failure detector (optional)

INPUTS

- 0 / 4-20mA analog input
- External pulse input
- Remote on / off input
- Level sensor input (pre-vacuum)
- Level sensor input (empty)
- Leak detector input
- Flow detector input
- Pressure sensor input

OUTPUTS AND COMMUNICATIONS

- RS-485 ModBus serial port
- 4-20 mA output for recording and monitoring
- Pulse output for register, monitoring and 2nd pump control
- Alarm output (relay)
- Level alarm output (relay)

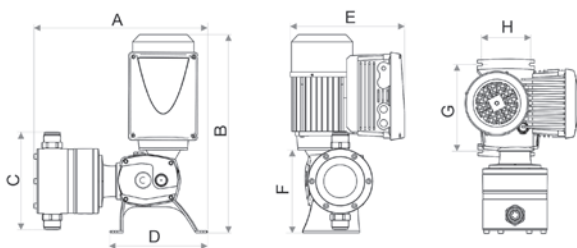
WEIGHT

- AC3: 24 kg
- AC2 / 1: 13 kg



Fertigation

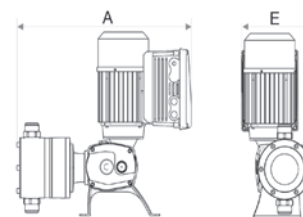
DIMENSIONS



Piston	A	B	C	D	E	F	G	H	
AC3	429	490	230	241	285	210	212	122	mm
AC2/1	306	400	154	180	270	150	155	90	mm

Diaphragm	A	B	C	D	E	F	G	H	
D163	395	490	270	241	285	210	212	122	mm
D142	394	490	250	241	285	210	212	122	mm
D115	270	400	204	180	270	150	155	90	mm
D95	270	400	184	180	270	150	155	90	mm
D69	274	400	154	180	270	150	155	90	mm

OPTIONAL ASSEMBLY



Piston	A	E	
AC3	525	205	mm
AC2/1	422	155	mm

Diaphragm	A	E	
D163	490	225	mm
D142	489	215	mm
D115	386	180	mm
D95	386	170	mm
D69	390	155	mm