

Heated Diaphragm Sample Gas Pump

N012ST.11E

Application

The diaphragm sample gas pump **N012ST.11E** is used for continuous extractive “hot gas” analytics. It mainly serves for unadulterated sucking and pumping of highly aggressive and corrosive sample gas above the dew point from sample point to the analyzer house resp. analyzer. Typical applications are emission measurements e.g. in waste incinerations and process measurements e.g. in chemical, petro-chemical, steel-, glass- or cement-industry.

Technology

The **N012ST.11E** is a reliable diaphragm pump with compact dimensions that guarantees an optimum integration in systems. It has a highly gas tight stainless steel pump head whose components have been developed especially for pumping of aggressive and corrosive gases. Special valves made of PTFE ensure a high tolerance to vapor and condensate as well as the PTFE-coated diaphragm. The results are an extremely long lifetime of the diaphragm and a high pneumatic performance of the pump. The pump is operating absolutely oil-free and ensures therefore an unadulterated pumping, evacuating and compressing of gases. The pump is ready for mounting and can operate in any position.

Functions

Core of the **N012ST.11E** is the elastic diaphragm which is moved up and down in its center by an eccentric. In this way gas is pumped through self-opening and-closing valves.

Due to the IP54 housing of the motor it is protected perfectly against spray water, dust and dirt. The desired temperature can be adjusted at the electronic controller with display. External control of the pump via PC is possible with special software and RS232 interface.

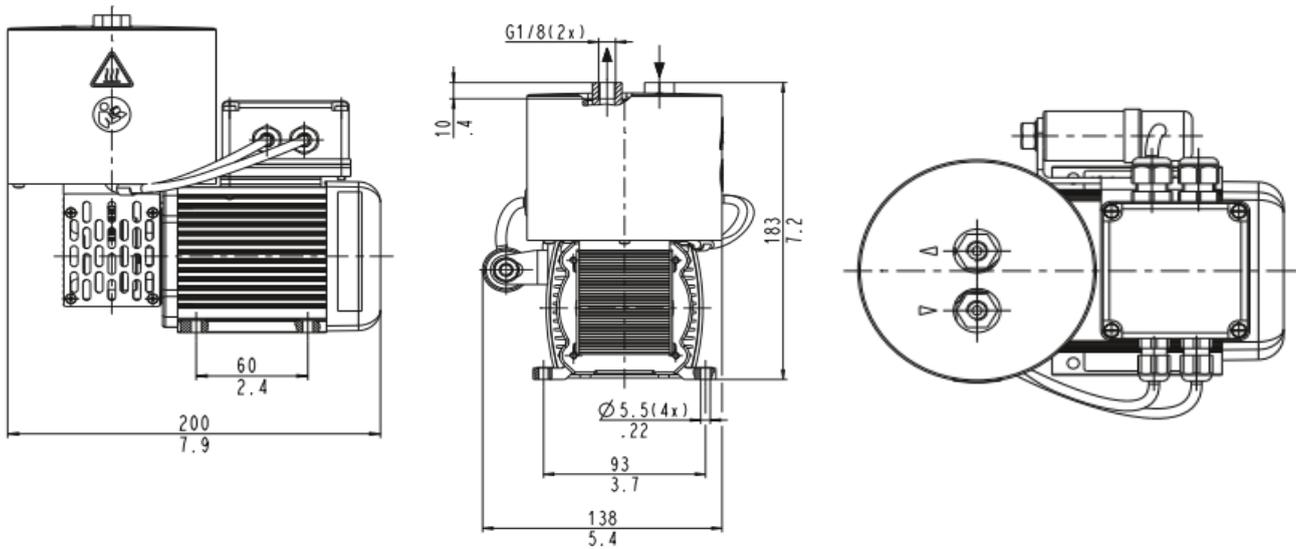


- ✓ Beheizt bis max. 240°C
- ✓ Heated to max. 240°C
- ✓ Electronic temperature controller
- ✓ Unadulterated pumping of sample gas
- ✓ Particularly corrosion resistant sample gas wetted components made of PTFE and stainless steel
- ✓ Pump capacity 10,5 l/min without pressure
- ✓ Simple to remove insulation
- ✓ Long lifetime
- ✓ Maintenance free operation
- ✓ Simple mounting and integration
- ✓ RS232 interface and PC-software

Technical Data

N012ST.11E		
Part No.		92300726
Pump capacity pressureless	l/min	10,5
End vacuum	mbar	240
Max. operating excess pressure	bar ü	1,5
Ambient temperature	°C	+5...+40
Heating temperature	°C	240
Design data		
Dimensions (W x H x D)	mm	138 x 183 x 200
Weight	kg	4,0
Media wetted materials		PTFE (membrane), PTFE (valves), Stainless Steel (pump head)
Connections		2 x G 1/8"i DIN ISO 228/1
Electrical data		
Operating voltage ± 10%	V	230V AC 50Hz
Protection class motor / heating		IP54 / IP20 (EN 60529)
Electrical connection		connection box
Operating current motor / heating	A	0,4 / 0,6
Power motor / heating	W	80 / 140
Interface		RS232

Dimensions



Dimensions in mm

Performance diagram

