PURGE UNIT FOR ASPIRATING

ASPIRATING SYSTEMS

PRODUCT DATASHEET



Features

- Programmable logic controller (PLC) driven purge unit for automatic cleaning of the pipes of aspirating systems
- Available in versions for aspirating systems of 1, 2, 3, or 4 aspirating pipes
- PLC with seven different programs and a test program
- Can be powered by the power supply of the detector
- Must be connected to a compressed air network that delivers dry and clean air, or an oil-free compressor that is equipped with an air dryer

Applications

- Waste treatment
- Stables
- Warehouses
- Bulk storage
- Tobacco production
- Production facilities

Product overview

If aspirating detectors are used in heavily polluted areas, the aspirating pipes must be cleaned periodically to ensure that they do not get clogged.

The purge unit for aspirating cleans the piping system fully automatically by blowing compressed air through from the detector side of the pipes. This method avoids the built-in particle filter of the detector from polluting too quickly, thus expanding the life of the filter.



By blowing in a pulsating way, a vibration occurs in the aspirating pipe. This vibration loosens the pollution, so that it gets blown out of the pipe via the aspirating holes. This pulsating blowing reduces the amount of air that is necessary, so that the compressed air system or compressor has to start up less frequently. When a compressor is used, the kettle volume can be reduced.

The built-in pre-programmed progammable logic controller (PLC) carries seven programs with various cleaning intervals, varying from once a week to once an hour. During commissioning, you can choose the required program by using the associated input on the PLC. The factory setting is once per hour.

Apart from the seven programs, the unit is equipped with a test setting that immediately starts a cleaning session. This function can be used during service proceedings.

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Technical specification

Technical specification	
Supply voltage	24 Vdc ±10%
Current consumption	15-100 mA, depending on chosen program
Dimensions	500 x 400 x 200 (H x W x D) excluding glands 590 x 400 x 200 (H x W x D) including glands
Weight	1-valve version: 10.6 kg 2-valve version: 12.1 kg 3-valve version: 13.6 kg 4-valve version: 15.2 kg
Operating temperature range	-10 °C to +60 °C
Operating humidity range	0 to 90% RH non-condensing
Housing material	Glass-fibre reinforced polyester
Color	RAL7035
IP-rating housing	IP66
IP-rating valves	IP65
Controller	Pre-programmed mini PLC on DIN rail with 8 inputs and 4 relay outputs
Valve type	Solenoid valve MFH-3-1/2 3/2 normally closed
Valve material	Anodised aluminium
Approval valves	UL and CSA
Air connection	1/2" connection, maximum 8 bar
Aspirating pipe connections	1 to 4 ingoing and 1 to 4 outgoing connections (depending on the type) Ø 27 mm or Ø 25 mm



Part numbers

Part number	Description
116-SE-AT0551	Automatic purge unit, 1 pipe, 25 mm
116-SE-AT0552	Automatic purge unit, 2 pipes, 25 mm
116-SE-AT0553	Automatic purge unit, 3 pipes, 25 mm
116-SE-AT0554	Automatic purge unit, 4 pipes, 25 mm
116-SE-AT0501	Automatic purge unit, 1 pipe, 27 mm
116-SE-AT0502	Automatic purge unit, 2 pipes, 27 mm
116-SE-AT0503	Automatic purge unit, 3 pipes, 27 mm
116-SE-AT0504	Automatic purge unit, 4 pipes, 27 mm

System setup

