

1 Introduction

1.1 Intended use

The sample gas pumps are intended to be installed in gas analysis systems in industrial applications. Sample gas pumps of the P1.1 type must be installed in a housing / equipment cabinet or provided with protection against accidental contact. The P1.1E types come provided with a factory-made housing.

The sample gas pump is intended exclusively for the pumping of gaseous media. It is not suitable for liquids.

Please note the specifications in the data sheet on the specific intended use, existing material combinations, as well as pressure and temperature limits.

DANGER**Potentially explosive atmosphere**

Explosion hazard if used in hazardous areas.

The device is not suitable for operation in hazardous areas with potentially explosive atmospheres.

Do not expose the device to combustible or explosive gas mixtures.

1.2 Product key

The device is delivered with different configurations. The part number given on the type plate informs you about the specific configuration of your device.

On the type plate you will find the order number as well as the 13-digit product key. This number is a code where each digit (x) describes a certain feature:

42	28	x	x	x	1	x	x	x	00	xx	Product feature
											Motor voltage
		1									230 V 50 Hz 0.48 A
		2									115 V 60 Hz 0.84 A
		3									12 V DC 1.55 A (on request)
		4									24 V DC 0.8 A
											Pump head position
		1									Normal position vertical
		2									turned by 180°
											Pump head material
		1									PTFE
		2									VA (1.4571)
		3									PVDF with bypass valve
		4									PVDF
											Valve material
		1									up to 70 °C; PTFE/PVDF
											Screw-in connections/pipe fittings
		0									without
		1									PVDF DN 4/6 *
		2									PVDF 1/4"-1/6" *
		3									PVDF 1/4"-1/8" *
		5									VA (1.4401) 6 mm **
		6									VA (1.4401) 1/4" **
											Mounting accessories
		0									without
		1									Mounting bracket and set of vibration dampers
		2									set of vibration dampers only
											Housing
		0									without
		1									Housing incl. 3 m connection cable
		2									Housing with on/off switch incl. 3 m connection cable ***
											Options
		00									without
											Approval
		--									without
		FM									FM-Approval

* PTFE or PVDF pump body only

** VA pump body only

*** not possible with 12V/24V and/or FM approval

If there are special instructions for a pump type, they are marked in the manual.

Take care of the limits of the pump. When ordering spare parts chose for the type matching part numbers (e.g. valves).

1.3 Scope of delivery

- 1 x Sample gas pump with motor
- Product documentation
- Connection- and mounting accessories (only optional)

For logistics reasons, connection- or mounting accessories such as screw-in connections and/or mounting bracket are not factory installed!

1.4 Product description

The sample gas pump is designed to transport only gaseous media not liquids.

Please observe the information at the end of these instructions in relation to specific intended use, available materials, pressure and temperature ranges. Regard in particular the information and type of protection given on the type plate.

Sample gases, which still contain humidity, tend to form condensate in the tubes and in the pump body. In such cases the pump head must be mounted with the head pointing down (see chapter Conversion to pump body pointing down).

NOTICE



Never use sample gas pumps outdoors!