

# Sample Gas Pump P1.1, P1.1E, P1.2, P1.2E



The transportation of sample gas in sample conditioning systems requires reliable sample pumps. The corrosive nature of the gas and the potential of condensate formation are the real challenges for any pump.

These sample pumps are equipped with a bellows made from solid PTFE. This design has demonstrated the highest reliability and long lifetime in numerous applications. Designed specifically for harsh gas applications that have entrained liquids present or where condensate is expected to form, it is recommended that the pump head be pointed downwards to accommodate draining of these liquids.

Model P1.2 and P1.2E sample gas pumps are approved to transport flammable gases of explosion group IIA and IIB.

Housing versions P1.1E and P1.2E include a standard 3 m connection line and are available with optional On/Off switch.

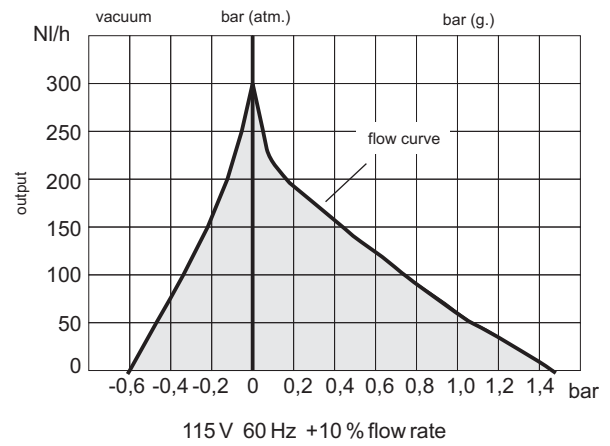
- **Easy to replace valves**
- **Bellow made of one solid piece**
- **Pumps gases with entrained liquid**
- **Well-proven pump technology**
- **Attractive price**
- **Small mounting space required**
- **Mounting accessories and fittings available as options**
- **Housing: protection class IP20**

## Technical Data

Voltage	see order number
Current consumption	see order number
Protection class OEM/housing	IP 00 / IP 20
Weight (without accessories)	approx. 1,3 kg
Media temperature *	max. 70 °C
Ambient temperature	0 °C to 50 °C
Nominal output	280 l/h
Media wetted materials	PTFE, PVDF, 1.4571, 1.4401
varies by configuration	
*P1.2/P1.2E see table below	

The gas tubes are connected via screwed fittings (G 1/4" thread). Respective fittings, mounting brackets and dampers can be ordered optionally.

## Flow Curve



### Restrictions for sample and ambient temperature

Pump types P1.2/P1.2E	Media temperature
Sample without flammable gases	70 °C
Sample with flammable gases above the lower explosion	T3 T4

### Marking P1.2/P1.2E:

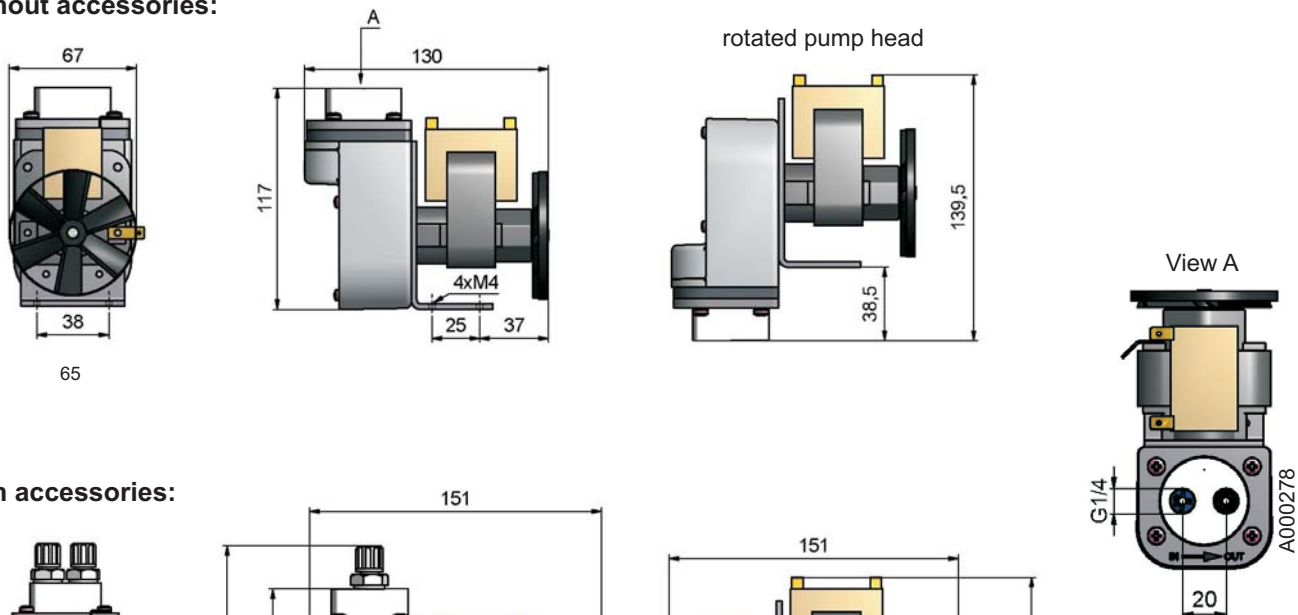
Ex II 3G/- c IIB T4

**Note: This unit is not suitable for installation in explosive areas!**

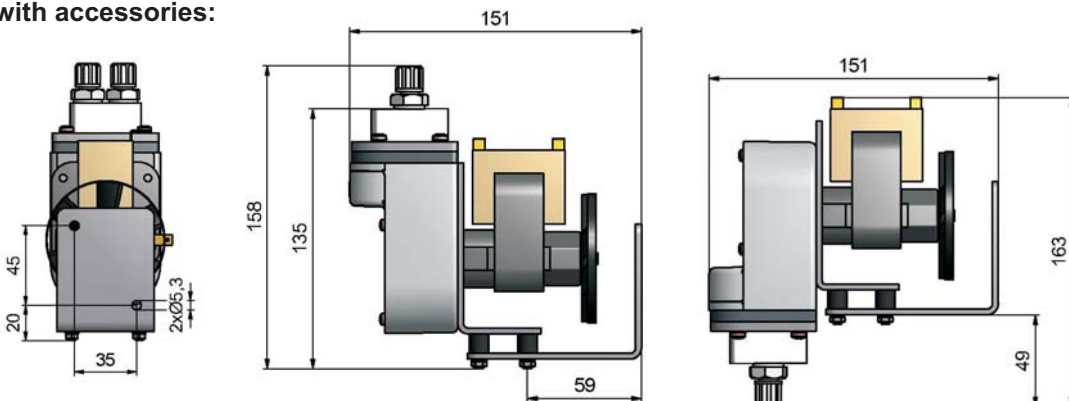
## Dimensions Pump P1.1 / P1.2

The sample gas pump P1.1/P1.2 is electrically connected by push-on receptacles.

### without accessories:



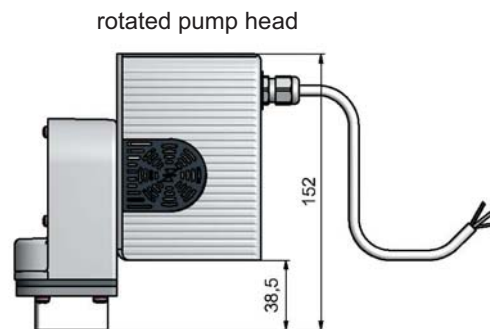
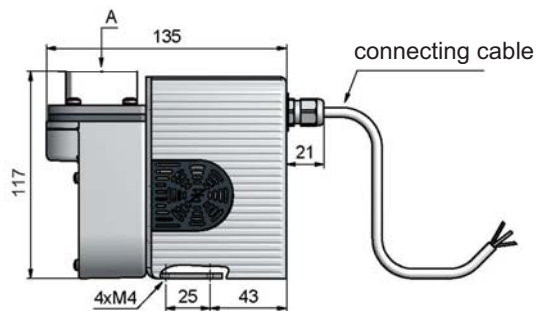
### with accessories:



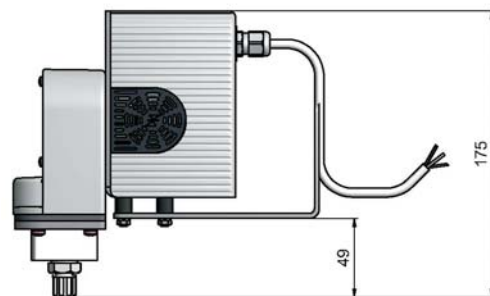
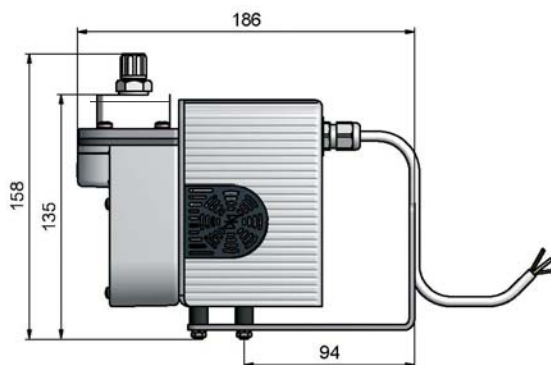
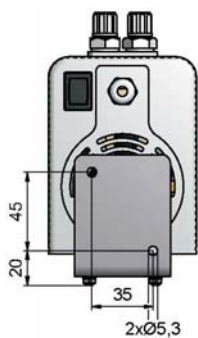
## Dimensions Pump P1.1E / P1.2E

The sample gas pump P1.1E/P1.2E is by default equipped with a connecting cable, length 3 m.

### without accessories:



### with accessories:



### Ordering hints:

Part no.	42	XX	X	X	X	1	X	X	X	0	0	Feature
												<b>Basic type</b>
28												P1.1 280 l/h
29												P1.2 280 l/h (II 3G/- c IIB T4)
												<b>Motor supply</b>
1												230 V / 50 Hz, 0,48 A
2												115 V / 60 Hz, 0,84 A
												<b>Pump head position</b>
1												normal pos. vertical
2												pointing downwards
												<b>Material pump head</b>
1												PTFE
2												VA (1.4571)
4												PVDF
												<b>Material valves</b>
1												up to 70 °C PTFE/PVDF
												<b>Male stud couplings / pipe fittings</b>
0												without fittings
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" **
												<b>Mounting accessories</b>
0												without mounting accessories
1												mounting brackets and set of vibration dampers
2												set of vibration dampers only
												<b>Housing</b>
0												no housing
1												housing incl. connection cable, length 3 m
2												housing incl. ON/OFF switch and connection cable, length 3 m

\*only for PTFE or PVDF pump bodies

\*\*only for VA pump body

### Accessories

Part no.	Description
on request	Adapter plate for mounting the pump on different drilling patterns