





Sample gas pumps P 4.3, P 4.83

Gas analysis is key for safe and efficient system operation in the chemical industry, petrochemistry or biochemistry. Many of the analysis processes used in these fields require sample gas extraction and conditioning.

Sample gas pumps convey the sample gas from the sampling point to the conditioning system. The main item in these pumps designed specifically for the application is the PTFE single-piece bellow. Combined with the pump head, also single-piece, this solution provides high resistance against particularly aggressive sample gas. Turning the pump head allows gas with condensate to be conveyed without a problem.

Simple, sturdy construction

Easy to replace valves

Adjustable bypass valve (optional)

Single-piece bellows

Conveys sample gas with condensate

Long life

Low noise emission

115 V - versions with FM C-US approval

Mounting bracket and rubber mounting standard



P4.3 and P4.83 Pump Models

For easier installation, the P4.3 and P4.83 pumps include a mounting bracket with rubber mounting. The pump head can optionally be ordered with adjustable bypass valve (not applicable with parallel operation).

The difference between the P4.3 and P4.83 is the flow rate. The P4.3 pump has a capacity of $2 \times 400 \text{ L/h}$ free flow and the P4.83 has a capacity of $2 \times 800 \text{ L/h}$ free flow.

The P4.3 and P4.83 pumps are not suitable for use in explosive areas according to ATEX.

Connecting the two gas paths with the optional piping or tubing kit significantly increases the flow rate.

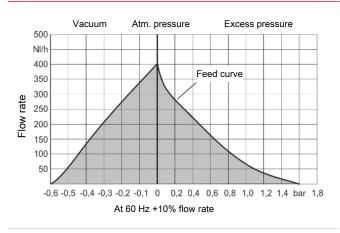
Technical Data

P4.3/P4.83 Technical Data

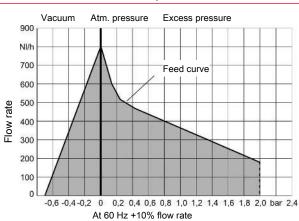
Nominal current: see ordering information Protection class: electric IP55 mechanical IP20 Weight: 12.5 kg Dead volume: 2 x 8.5 ml FM C-US (115 V only) FM approval no.: 3038101/3038101C Ambient temperature: max. 60 °C		
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·	Ambient temperature:	max. 60 °C
	Medium temperature:	

Feed Curves

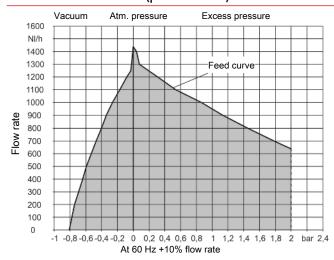
P4.3 (per head)



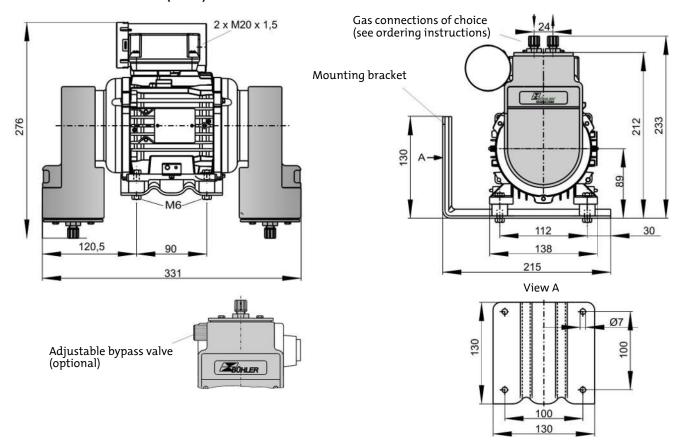
P4.83 (per head)



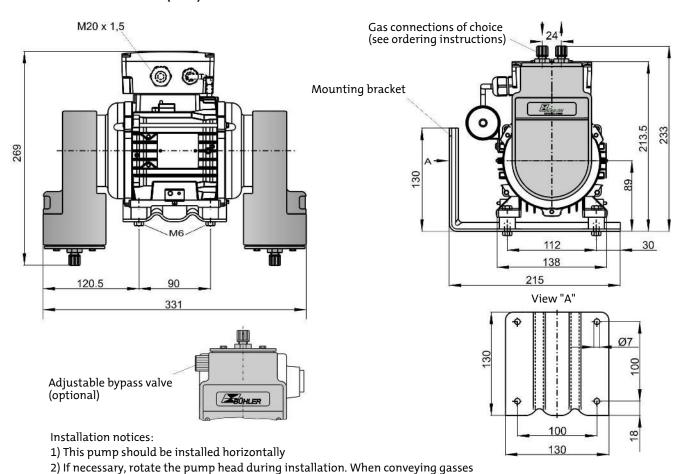
P4.83 (parallel circuit)



Dimensions P4.3 and P4.83 (230 V)

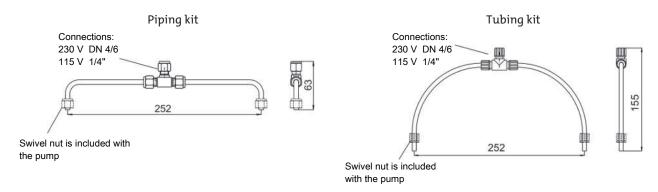


Dimensions P4.3 and P4.83 (115 V)



with condensate content it must be installed valves down.

Dimensions piping kit/tubing kit for P4.83 with parallel operation



Ordering instructions

XX	X	X	x	X	X	9	0	00	Product characteristic		
									Base model		
80									P4.3, 2 x 400 L/h		
81									P4.83, 2 x 800 L/h		
									Motor voltage		
	1								230 V 50/60 Hz. 1.75/1.45 A		
	2								115 V 50/60 Hz. 3.5/2.9 A		
									Pump head position		
		1							Normal position vertical		
		2							turned by 180°		
									Pump head material		
			1						PTFE		
			2						Stainless steel 1.4571		
3 PTFE with bypass va									PTFE with bypass valve *		
									Valve material		
				1					up to 100°C; PTFE / PVDF **		
				2					up to 160°C; PTFE / PEEK		
									Screw-in connections (for 230 V voltage)		
									PTFE Pump body	Stainless steel pump body	
					9				DN 4/6 (Standard)	6 mm (Standard)	
					1				DN 6/8	8 mm	
					2				3/8"-1/4"	3/8"	
					3				1/4"-1/8"		
					4				1/4"-1/6"	1/4"	
									Screw-in connections (for 115 V voltage)		
									PTFE Pump body	Stainless steel pump body	
					9				1/4"-1/6" (Standard)	1/4" (Standard)	
					1				DN 6/8	8 mm	
					2				3/8"-1/4"	3/8"	
					3				1/4"-1/8"		
					5				DN 4/6	6 mm	
									Mounting accessories		
						9			incl. mounting bracket and bumpers		
									Connection kit for parallel operation		
							0		without		
							1		Tubing kit PVDF/PTFE ***		
							2		Piping kit 1.4571/1.4401 ***		

^{*} not with parallel operation

^{**} not P4.83

^{***} P4.83 only