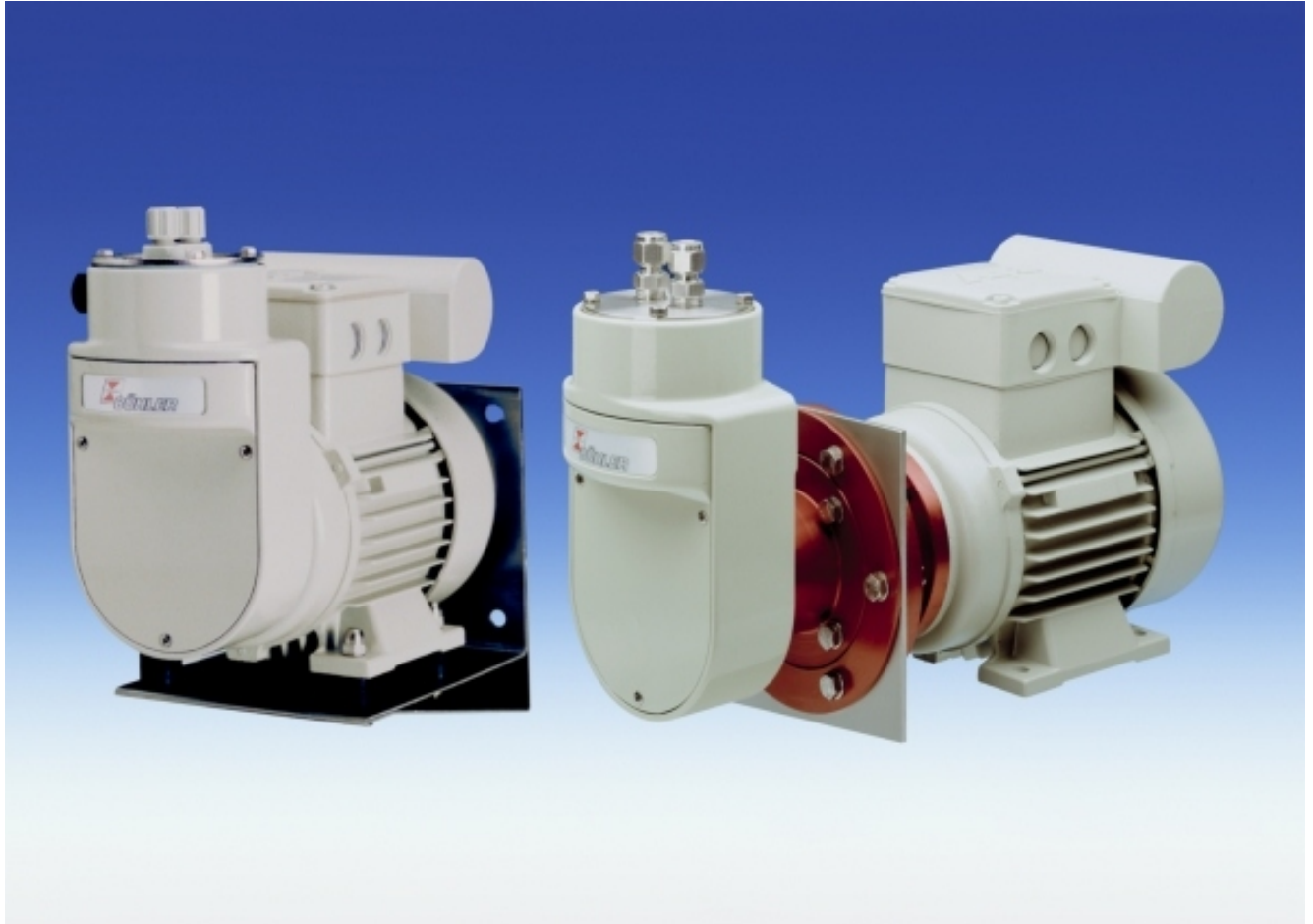


Sample Gas Pump

P 2.3; P 2.83; P 2.4; P 2.84



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.

A special flange design makes the P2.4 and P2.84 designs suitable for hot applications. The flange is designed in two parts: one -carrying the pump head- is installed in a heated cabinet and the other -carrying the electrical motor- is flanged to the outside of the cabinet keeping the motor in ambient conditions.

- **Robust and reliable design**
- **Easy to replace valves**
- **Bellow made of one solid piece**
- **Pumps gases with entrained liquid**
- **Long life**
- **Explosion-proof version available**
- **Low noise**
- **115 V - models with CSA and FM approval**

Pump Models P2.3 and P2.83

For easy installation of the P2.3 and P2.83 pumps, a support console with vibration dampers is included.

The pump head can be ordered with an internal bypass valve.

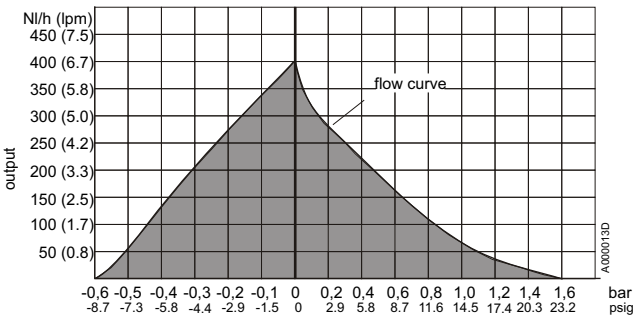
The difference between the P2.3 and P2.83 pump is in the flow provided. The P2.3 pump has a capacity of 400 l/h (6.7 lpm) free flow and the P2.83 has a capacity of 800 l/h (13.3 lpm) free flow.

The P2.3 and P2.83 pumps must not be used in explosive areas. The corresponding type for ex areas would be the P2.2 ATEX, P2.2 AMEX and P2.82 AMEX, data sheet 420009, or the US-P2.6Ex, data sheet 420005.

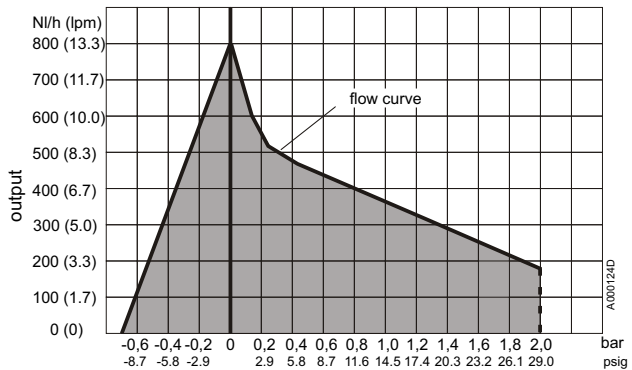
Technical Data

Nominal voltage	See order number	Media temp.	210 °F	Valves: PTFE / PVDF
Nominal current	See order number		320 °F	Valves: PTFE / PEEK
Protection class	Electrical IP55	Ambient temp.	max. 140 °F	
	Mechanical IP20	CSA C-US (115V only)	CSA File No. 1703338	
Weight (approx.)	14 lb	FM (115V only)	FM File No. 3038101	
Dead space	0.52 cu. in.			

Flow Curve P2.3



Flow Curve P2.83



Please indicate with order

x stands for number indicated below

The P2.83 pump are only available with 320°F valves.

Part no.

42 xx x x x x 99

56
63

P2.3 400 l/h (6.7 lpm) pump
P2.83 800 l/h (13.3 lpm) pump

Motor

230 V, 50/60Hz, 0.85/0.8 A
115 V, 50/60Hz, 1.7/1.6 A

Pump head position

Normal pos. vertical
Pointing downwards

Pump head material

PTFE
SS 1.4571, Viton, 1.4401
PTFE with bypass valve

Valve material

1 to 210°F PTFE / PVDF (P2.3 only, not available for P2.83)
2 to 320°F PTFE / PEEK

Ordering example:

- Part no.. 42 631112 99
- 63 for 800 l/h pump P2.83
- 1 for 230V 50/60Hz motor
- 1 for pump head pointing up
- 1 pump head PTFE
- 2 for 320°F valves

Pump Models P2.4 and P2.84

A cabinet wall thickness of up to 30mm (1.2") can be used without other modifications.

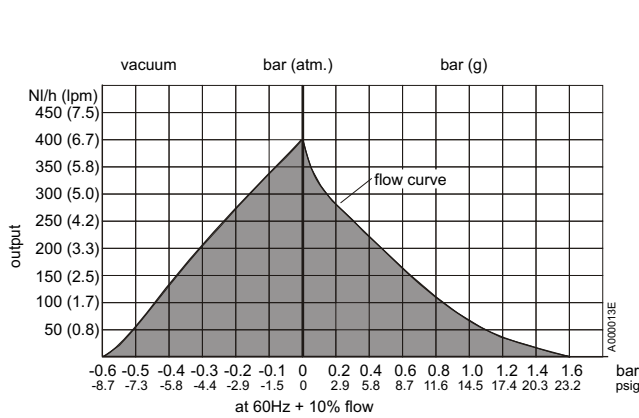
The difference between the P2.4 and P2.84 pump is in the flow provided. The P2.4 pump has a capacity of 400 l/h (6.7 lpm) free flow and the P2.84 has a capacity of 800 l/h (13.3 lpm) free flow.

The P2.4 and P2.84 Pumps must not be used in explosive areas. The corresponding type for ex areas would be the P2.4 ATEX, P2.4 AMEX and P2.84 AMEX, data sheet 420009.

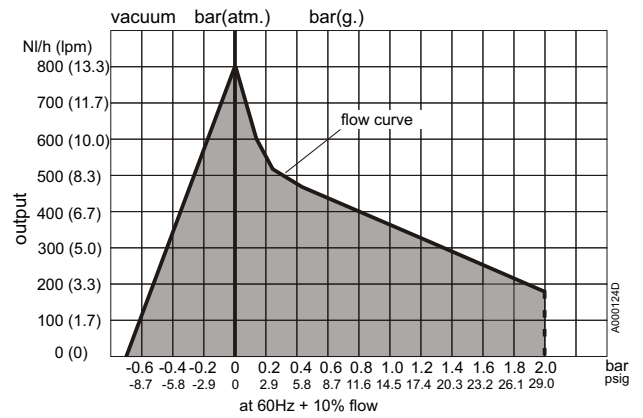
Technical Data

Nominal voltage	See order number	Media temperature	320 °F	Valve: PTFE / PEEK
Nominal current	See order number	Ambient temperature		
Protection class	Electrical IP55	Motor	max. 140 °F	
	Mechanical IP20	Pump head	max. 212 °F	
Weight (approx.)	16.5 lb	CSA C-US (115V only)	CSA File No. 1703338	
Dead space	0.52 cu. in.	FM (115V only)	FM File No. 3038101	

Flow Curve P2.4



Flow Curve P2.84



Please indicate with order

x stands for the number indicated below

Part no.	42	xx	x	1	x	2	99	
		57						P2.4 400 l/h (6.7 lpm) pump
		64						P2.84 800 l/h (13.3 lpm) pump
			1					Motor
			2					230 V, 50/60Hz, 0.85/0.8 A
								115 V, 50/60Hz, 1.7/1.6 A
								Pump head material
						1		PTFE
						2		SS 1.4571, Viton, 1.4401

