



SR25.1/Ex inside SS enclosure

Peristaltic Pump Series SR25®



Version SR25.1, SR25.1/Ex

Special Features

- Safe condensate removal
- With return stop
- Self-priming
- Slow rotational speed
- Hose with long service life
- Explosion-proof version according to ATEX for zone 1

Application

The peristaltic pump SR25.1 has been specially developed for the condensate removal in analysis applications. It ensures a continuous condensate discharge in gas coolers, condensate collecting vessels, etc. A synchronous motor and the gearing unit with return stop make a condensate backflow impossible.

The flow rate of 0.3 NI/h guarantees a safe condensate removal, for example when cooling 850 NI/h sample gas with an initial dew point of +70 °C [158 °F].

The peristaltic pump SR25.1 is used as a spare part for older electric gas coolers of type EC30, EC, ECS, EC-FD, and ECC. For these electro gas coolers the peristaltic pump is mounted in the front plate or housing wall.

For new designs and for use as a surface mounted unit, the successor model SR25.2.W should be used instead of SR25.1 (see data sheet "Peristaltic Pump Series SR25®, SR25.2, SR25.2-G, SR25.2-W").

- Electrical mains connection for 230 V/50 Hz or 115 V/60 Hz is standard.
- The peristaltic pump SR25.1 is designed as a built-in device.
- Up to 4 peristaltic pumps SR25.1 can be installed in the electric gas cooler type EC (see data sheet "Gas Cooler Series EC®, Version ECS and EC-EX for 4 x 250 NI/h").
- The peristaltic pump SR25.1/Ex is a surface-mounted device and can also be mounted into a front panel. SR25.1/Ex is suitable for use in zone 1 hazardous areas.

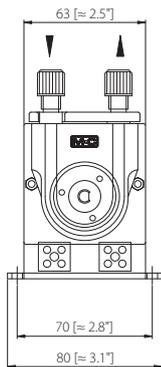
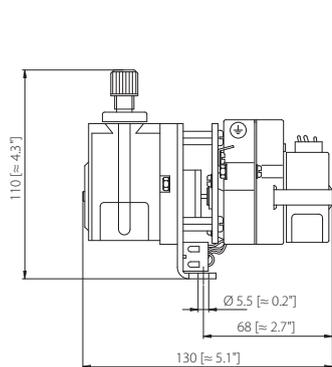
Description

The peristaltic pump SR25.1 is self-priming and designed for continuous operation. It consists of 3 compact components:

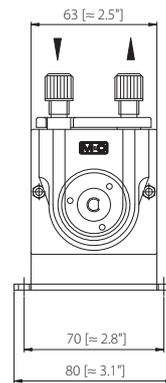
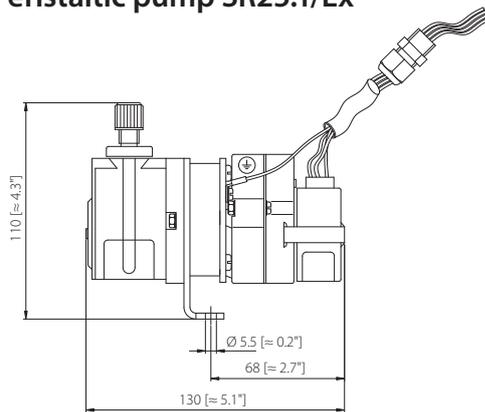
- synchronous motor
- gearing unit with return stop
- pump.

The slow rotational speed (5 rpm), the two PVDF hose contact pulleys and the Novoprene hose guarantee a good mechanical and chemical resistance with a long service life. A possible hose change can be carried out very easily by using ready-made hose sets. The clamping hose connectors DN 4/6 also allow the connection of Teflon® hoses.

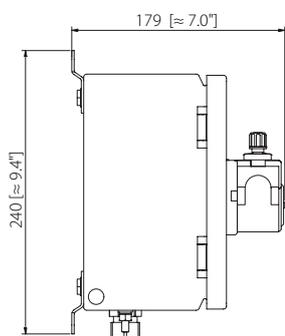
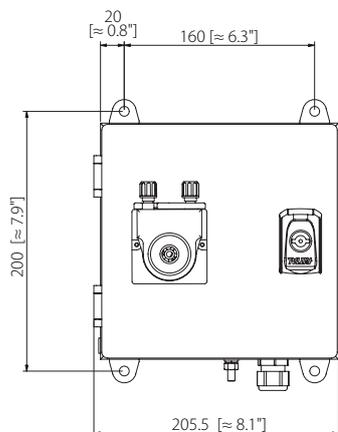
Peristaltic pump SR25.1



Peristaltic pump SR25.1/Ex



Peristaltic pump SR25.1/Ex inside SS enclosure (Part No. 01P1250)



Dimensions in mm [Inch]

Technical Data

Peristaltic pump Series SR25®	Version SR25.1	Version SR25.1/Ex
Part number	01P1000	01P1201
Housing	No	No
Method of mounting	Surface-mounted or built-in	Surface-mounted or built-in
Protection/Electrical standard	IP10 EN 60529	IP40, II 2 G Ex m II T5 Certificate No. KEMA 03ATEX2218 X
Electrical connection	Terminal 1.5 mm ²	600 mm [≈ 23.6"] cable 4 x 0.5 mm ² with cable gland M20 x 1.5
Dimensions (W x H x D)	80 x 110 x 130 mm [≈ 5.12" x 4.33" x 3.15"]	
Weight	0.6 kg [≈ 1.32 lb]	0.7 kg [≈ 1.54 lb]
Rotational speed	5 rpm standard	
Flow rate	0.3 NI/h standard	
Pressure min.	200 mbar abs.	
Pressure max.	2200 mbar abs.	
Sample temperature	0 to +60 °C [32 to 140 °F]	
Ambient temperature	0 to +50 °C [32 to 122 °F]	+5 to +50 °C [41 to 122 °F]
Storage temperature	-10 to +60 °C [14 to 140 °F]	
Tube connectors	DN 4/6 mm	
Material of sample contacting parts	PVDF, Novoprene	
Power supply/consumption	115/230 V 50/60 Hz / 3.5 VA	
Duty cycle	100 % duty cycle	

Please note: NI/h and NI/min refer to the German standard DIN 1343 and are based on these standard conditions: 0 °C [32 °F], 1013 mbar.

Part No.	SR25.1/Ex with Ex connection box and enclosure
01P1250	1 x SR25.1/Ex peristaltic pump with Ex connection box and SS enclosure for one peristaltic pump, dimensions of the SS enclosure with wall brackets (W x H x D): 205.5 x 240 x 179 mm [≈ 8.1" x 9.4" x 7.0"]
01P1260	2 x SR25.1/Ex peristaltic pumps with Ex connection box and SS enclosure for up to 4 peristaltic pumps, dimensions (W x H x D): 400 x 235 x 175 mm [≈ 15.7" x 9.3" x 6.9"]
01P1270	3 x SR25.1/Ex peristaltic pumps with Ex connection box and SS enclosure for up to 4 peristaltic pumps, dimensions (W x H x D): 400 x 235 x 175 mm [≈ 15.7" x 9.3" x 6.9"]
01P1280	4 x SR25.1/Ex peristaltic pumps with Ex connection box and SS enclosure for up to 4 peristaltic pumps, dimensions (W x H x D): 400 x 235 x 175 mm [≈ 15.7" x 9.3" x 6.9"]

Part No.	Ex connection box for up to 4 x SR25.1/Ex peristaltic pump(s) (without peristaltic pump(s) and enclosure)
01P9400	Ex connection box for 1 x SR25.1/Ex: terminals max. 4 x 2,5 mm ² , cable glands 2 x M20 x 1.5, protection IP65, electrical standard  , dimensions (W x H x D): 75 x 80 x 55 mm [≈ 2.95" x 3.15" x 2.17"], weight: 0.35 kg [≈ 0.77 lb]
01P9405	Ex connection box for max. 4 x SR25.1/Ex: terminals max. 16 x 2.5 mm ² , cable glands 5 x M20 x 1.5, protection IP65, electrical standard  , dimensions (W x H x D): 160 x 75 x 55 mm [≈ 6.3" x 2.95" x 2.17"], weight: 0.6 kg [≈ 1.32 lb]

Part No.	Enclosure and Ex connection box for 1 x SR25.1/Ex peristaltic pump (without peristaltic pump)
01P9401	SS enclosure: dimensions with wall brackets without peristaltic pump (W x H x D): 205.5 x 240 x 130 mm [≈ 8.1" x 9.4" x 5.1"]; Ex connection box for 1 x SR25.1/Ex: terminals max. 4 x 2.5 mm ² , cable glands 2 x M20 x 1.5, protection IP65, electrical standard  , dimensions (W x H x D): 75 x 80 x 55 mm [≈ 2.95" x 3.15" x 2.17"], weight: 0.35 kg [≈ 0.77 lb]