





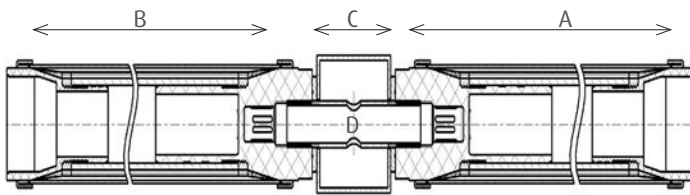
Dimensions

Material	Tube diameter (grooved)	ID-Sleeve	Wall thickness
EPDMperformance	87 mm	90 mm	1,9 ± 0,20 mm
Silicon translucent	87 mm	90 mm	1,5 ± 0,20 mm
Pur transparent	87 mm	90 mm	0,75 ± 0,05 mm

- Shutdown of operation is highly recommended for air flow rates lower than minimum rate.
- Do not apply overload air flow rate (e.g. cleaning) for more than 10 minutes each day.
- Numbers are for guidance only. Operating diffusers at too high or too low airflow rate may reduce lifetime or performance. See Technical Report 'Membrane Fouling Issues' for details.

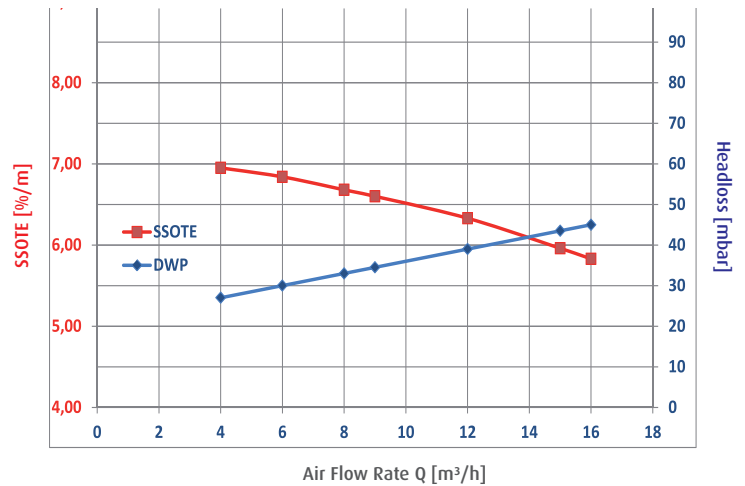


Installation drawing



- A Total length
- B Perforation length
- C Header
- D Connector

SSOTE and headloss for EPDM 1000mm



Perforation length [B]	Total length [A]	Perforated area	Air flow rate at standard operating conditions	Max. overload/maintenance air flow rate
1000 mm	1145 mm	0.24 m ²	6 - 18 m _N ³ /h	28 m _N ³ /h
750 mm	895 mm	0.18 m ²	4 - 14 m _N ³ /h	21 m _N ³ /h
500 mm	645 mm	0.12 m ²	3 - 9 m _N ³ /h	14 m _N ³ /h

Operating temperature air	Operating temperature water	Operating mode	Application
5- 60 °C	5 - 30 °C	continuous / intermittent	municipal waste water

Dimensions for threads and connector

Connector [E]	Connector length square tube 80 x 80 mm [C]	Connector length square tube 100 x 100 mm [C]	Drill hole for connector [D]
Pipe thread ISO 228 -G 1A	145 mm	165 mm	35 ±1



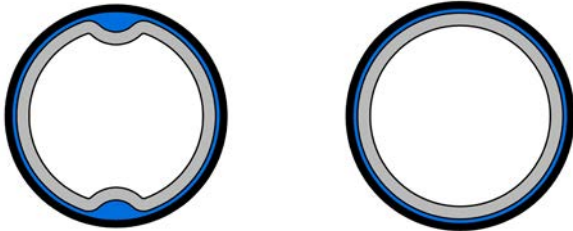
Membrane materials

Material		EPDMperformance	Silicone	PUR
Colour		black	translucent	transparent
Polymer		33 %	50 %	100 %
Carbon black		20 %	0 %	0 %
Plasticiser		35 %	0 %	0 %
Others		12 %	50 %	0 %
Density	DIN EN ISO 1183-1	1,11 ±0,03 g/m ³	1,16 ±0,03 g/m ³	1,18 ±0,03 g/m ³
Tensile strength	DIN 53504	> 7 MPa	> 9 MPa	40 MPa
Elongation at break	DIN 53504	> 400%	> 600%	≥ 600 %
Tear strength	DIN EN ISO 34-1	> 7,5 N/mm	> 20 N/mm	65 N/mm
Hardness	DIN ISO 7619-1	40 ± 5 Shore A	60 ± 5 Shore A	
Tension set	DIN ISO 2285, 100% Elongation; 24 h, RT	< 7%		
Ozone resistance	DIN ISO 1431-1 (500ppb)	no cracks	no cracks	no cracks

Other materials

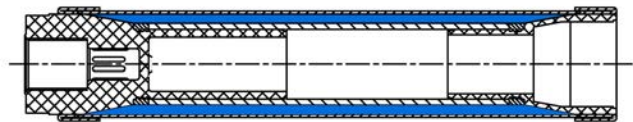
Pipe	Head	Clamp	Gasket	Connector
PP	PP 30% GF	1.4301	EPDM SI	1.4301

2-grooved diffuser



Air (blue) flows easily through the grooves causing considerable lower headloss. The circumference of the grooved tube is equal to the ID of the membrane.

Air is squeezed through a narrow gap between sleeve and tube increasing headloss.



Grooves will evenly distribute air from front to end over years even in difficult to treat waste water.

Accessories



Stainless-steel connectors (square headers)



Adapters
Ø 40 or Ø 45



Blind plugs



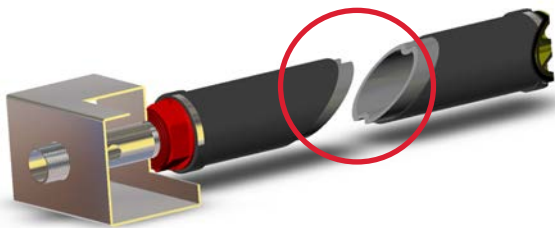
Plastic connectors / saddles (round headers)



Sealing for adapters



Clamp adapters (round headers)





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