

GEMDISC Disc Diffuser 325 - EPDM



Construction

<u>Material - Sleeve</u>	EPDM
<u>Sleeve Membrane Quality</u>	GD-6600-1920
<u>Diameter</u>	325 mm (300 mm aeration)
<u>Perforation (with valve effect)</u>	1.1 mm
<u>Temperature</u>	- 40 / + 100 °C
<u>Opening-Pressure of Perforation</u>	200 mbar
<u>Air Volume (Nm³/h / Diffuser)</u>	Minimum: 2 Normal: 6 - 8 Maximum: 12
<u>Weight</u>	0.92 kg
<u>Material – Carrier Disc & Ring</u>	PP – glass-fibre reinforced
<u>Threaded Head</u>	PP – glass-fibre reinforced
<u>Threading</u>	¾" – MT



Picture merely serves illustration

GEMDISC Disc Diffuser

Modern water- and wastewater-technology requires ecological as well as economic ideal aeration solutions, which ensure procedural flexibility whilst providing the maximum in oxygen transfer efficiency. This provides the basis for efficient biological water- and wastewater-treatment.

GEMDISC disc diffusers in EPDM create fine air-bubble aeration. The flexible EPDM-Construction provides non-clogging operation and furthermore enables a smooth intermittent operation for nitrification or upstream de-nitrification.

GEMDISC disc diffusers are available as a complete unit, but we also supply the components separately for service, i.e. in order to exchange the sleeves in already installed wastewater treatment plants.

Regarding the perforation slit length, we can supply our customers according to their specific and individual requirements.

The specific positioned air outlet slits – perforation – guarantees fine air-bubble aeration with extremely low pressure loss thus producing an effective oxygen-transfer rate on the entire aeration surface.

GEMDISC disc diffusers distinguish themselves due to their high corrosion resistance and durability ensuring dependable operation. The simple installation enables easy and expeditious first-time fitting and subsequent maintenance.



Male Threaded Connection



Membrane is secured with a PP-Holding Ring

Areas of Application:

- Municipal and Industrial Sewage Treatment Plants
- Decentralized Sewage Treatment Systems
- Fish-Farming
- Aeration on Landfill Sites

Technical Datasheet

 EPDM – Sleeve **GEMDISC**
 Quality GD-6600-1920

Test	Unit	Norm	GD-6600-1920
Elastomer		ISO 1629	EPDM
Hardness	Shore A	DIN 53 505	61
Density g/cm ³	g/cm ³	DIN 53 479	1.17
Tensile Strength	Mpa	DIN 53 504	11.5
Tensile Stress 100%	Mpa	DIN 53 504	2.5
Elongation at break	%	DIN 53 504	430
ZVR 50% 24h70°C/ tension set	%	DIN ISO 2285	15
DVR (22h/70°C)/ compression set	%	DIN 53 517	12
Rebound Resilience RT	%	DIN 53 512	45
Composition			
Softener	%		26
Elastomer	%		28
Carbon Black	%		33
Ash	%		7
Further material	%		6

The above mentioned technical specifications are compiled to the best of our knowledge. They are valid for the material in the arriving condition without any additional treatment. However the large numbers of the possible insertion- and operating conditions make it impossible to draw obligatory conclusions from the behaviour in a sealing connection for all cases of use. Therefore a claim of guarantee can not be derived. The operating temperature depends on the medium and the operating conditions. In cases of doubt do not hesitate to contact us, but under a detailed giving of the operating conditions. This technical data sheet is not subject to an updating utility.