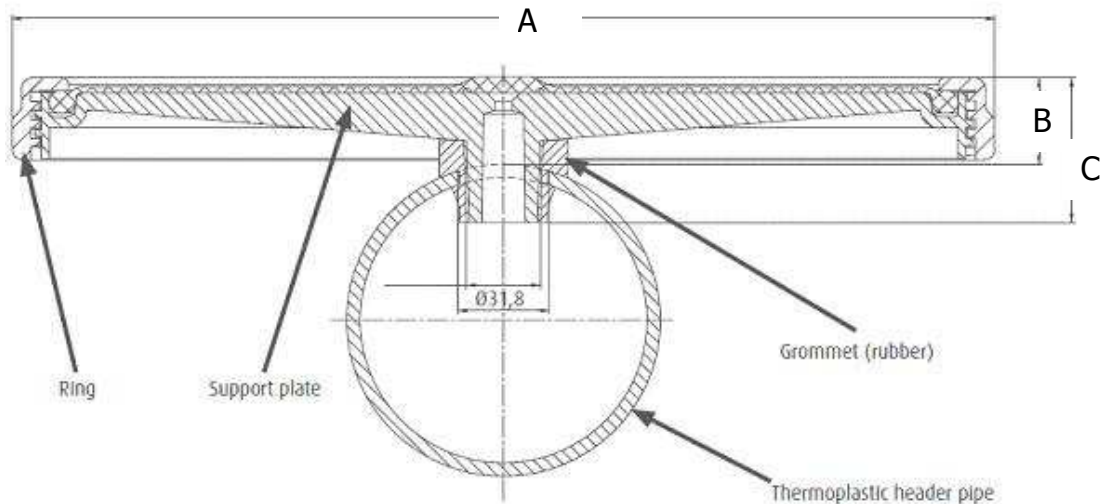




Data Sheet
JetFlex[®] Disc Diffuser - HD270 R^{3/4}
EPDM F053 J27



Installation Drawing¹ for Standard Thread R³/₄



Dimensions

Height (C)	Diameter Total (A) / Effective	Mounting height (B)	Active Area	Ø Orifice	Non-Return Valve	Thread ²
[mm]	[mm]	[mm]	[m ²]	[mm]		
60	268\218	30	0,037	6	Optional	R ³ / ₄ ET

Operating Conditions

Air Flow	Max. overload/ maintenance airflow rate	Operating Temperature	Mode	Application
[m ³ _N / h]	[m ³ _N / h]	[°C]		
2-6	10	5 – 60	continuous / intermittent	residential wastewater

- 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 an airflow rate may reduce lifetime or performance. See Technical Report `Slit size for aeration membranes´ for details.

¹ This is an exemplary concept for R³/₄ external thread only. Not all commercially available sockets may be suitable for the thread provided with our disc diffuser. Always test in advance or use our clamp or glue-on saddles with R³/₄ internal thread.

² Always check in advance suitability of thread provided with our disc and sockets existing at the construction site.



Connecting to Header Pipes

Type	Wall Thickness	Opening in Header	Material	Colour
R^{3/4} external thread only	[mm]	[mm]		
▪ Universal Saddle	4 – 8	32	EPDM 75	black
▪ Glue-on Saddle 90 mm	> 2	35	PVC	grey/white
▪ Glue-on Saddle 110 mm	> 2	35	PVC	grey/white

Various saddle-clamps available. See our brochure "Accessories" for details.

Material Properties

Elastomeric Membrane

Type		EPDM F053
Colour		black
Polymer		33%
Carbon Black		31%
Plasticizer		33%
Residue		3%
Density	DIN EN ISO 1183	1,08 ± 0,03 g/cm ³
Tensile Strength	DIN 53504 (comparable to ISO 37)	> 10 MPa
Elongation at Break	DIN 53504 (comparable to ISO 37)	> 400%
Tear Resistance	DIN ISO 34 (comparable to ASTM D 624 T)	> 7 N/mm
Hardness	DIN 53505 (comparable to DIN EN ISO 868)	53± 5 Shore A
Tension Set (100% Elongation; 24 h; RT)	ISO 2285	< 7%
Ozone Resistance	ISO 1431	Grade 0 (no cracks)

Plastic Parts

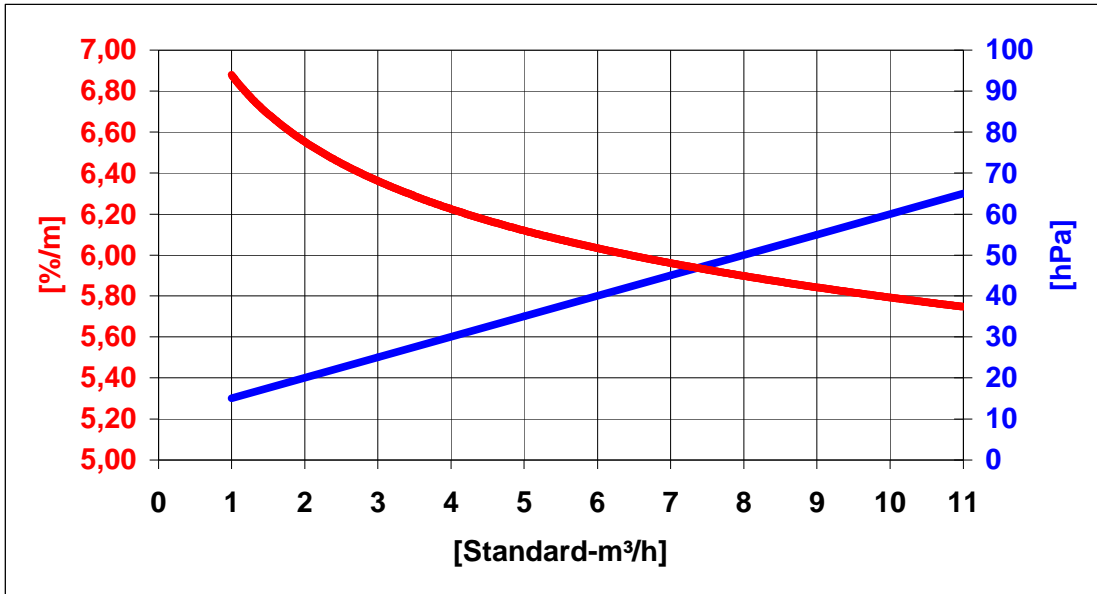
Material	Colour	Additional Colours	Logo
PP 30% GF	black	minimum quantity 5,000+	upon request 5,000+

Logistics

Shipping Unit	Dimensions	Weight per carton	Cartons per Pallet	Pallet size (LWH)	Weight
	[mm]	[kg]		[mm]	[kg]
50 pc/Carton	800*600*360	35	1 – 3	800*600*1200	Max. 117 kg
50 pc/Carton	800*600*360	35	2 – 8	1200*800*1550	Max. 287 kg



SSOTE [%/m_{imm}]³ (red) and Headloss (blue) versus Airflow per Diffuser for Disc Diffuser JetFlex® HD270 EPDM F053 J27



Storage:

- Diffuser and/or rubber sleeves must be stored factory-packed in a dark, dry, ventilated and dust-free storage space according to DIN 7716. Avoid frost, heat, UV/radiation, dust and working which can cause damage of diffuser and/or packing.
- Do not store outdoors! The storage of rubber parts until installation/starting operation should not exceed one year. At on-site delivery, all rubber and plastic parts must be stored in their original packaging. Crates exposed to direct sunlight must be covered with tarpaulin to protect against UV-radiation.

Maintenance:

Regular maintenance on a yearly basis is mandatory. Inspect diffusers visually after emptying tanks and cleaning diffusers. Removing deposits will increase lifetime significantly. Formic acid cleaning works against scaling only. Flushing diffusers at maximum short-term airflow will keep diffusers in good condition over a long period of time. Please refer to data sheets and O&M manuals for details.

Membrane lifetime:

More than 5 years in municipal waste water treatment plants, depending on waste water influent and operation condition.

Disclaimer: This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Condition of Sale.

Jäger Umwelt-Technik GmbH & Co. KG
 Bissendorfer Strasse 6
 30625 Hannover
 Tel.: 05121-9138-900 (Hildesheim Plant)

Jaeger Rubber and Plastics Ltd.
 Silicon Valley Industry Park
 518110 Shenzhen
 Phone: +86-755-2983 2412

2013 04 15

³ Aggregated data for all disc sizes. Observe all air flow restrictions. Lab conditions only; no liability assumed; SSOTE according to DWA-M 209: Specific Standard Oxygen Transfer Efficiency. Contact Jaeger for a detailed lay-out & design for your individual plant.

