

## DISC DIFFUSER **Ecoflex®** Silicone

Components for water and wastewater treatment



## PRODUCT PROPERTIES

- low installation costs
- high operational safety
- low maintenance
- low-cost construction
- application: - continuous  
- intermittent



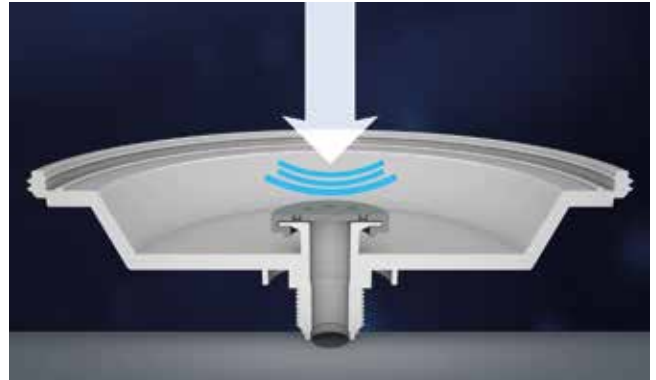
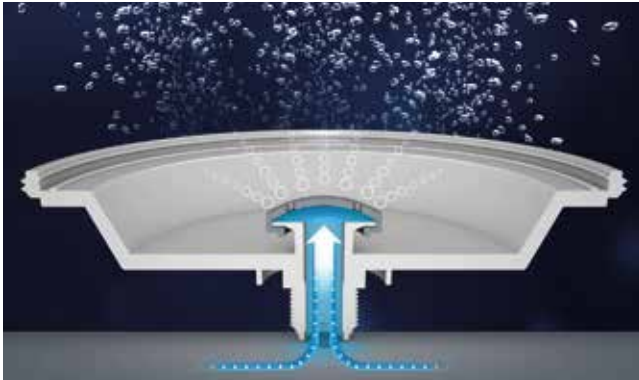
## ECOFLEX® DISC DIFFUSER, OPERATING RANGE

Model	Pore size µm	Range flow rate (Nm <sup>3</sup> /h) min-max	Optimal flow rate (Nm <sup>3</sup> /h)	Thread connection Standard (1" female or other up request)	Max temperature Celsius/ Fahrenheit	Operating procedure	Application
EC050S	60	2-6	4	1" M	230°C/446°F	continuous intermittent	Aeration tank
EC0100S	100	3-10	6	1" M	230°C/446°F	continuous intermittent	Aeration tank, anaerobic sludge digestion
EC0150S	150	3-14	8	1" M	230°C/446°F	continuous intermittent	Aeration tank, anaerobic sludge digestion

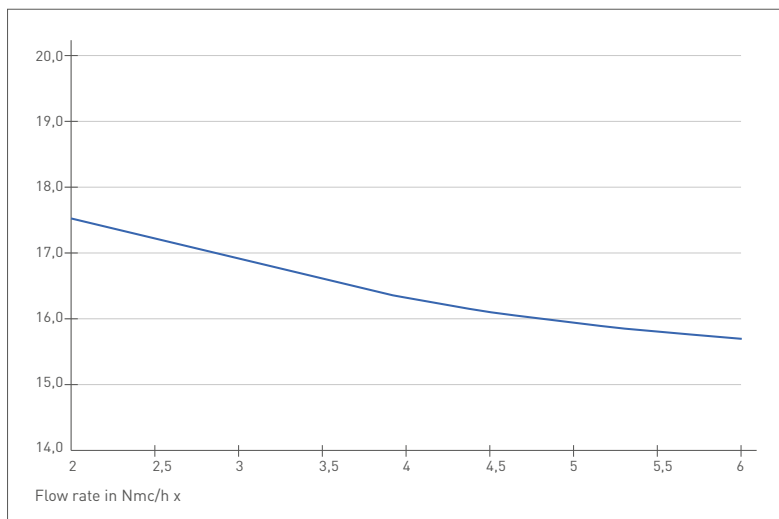
Data are based on clean water 20°C temperature, 1013mbar / 68°F, 101,3kpa. All data are approximate data!

# Ecoflex® Silicone

## SILICONE $\mu$ m



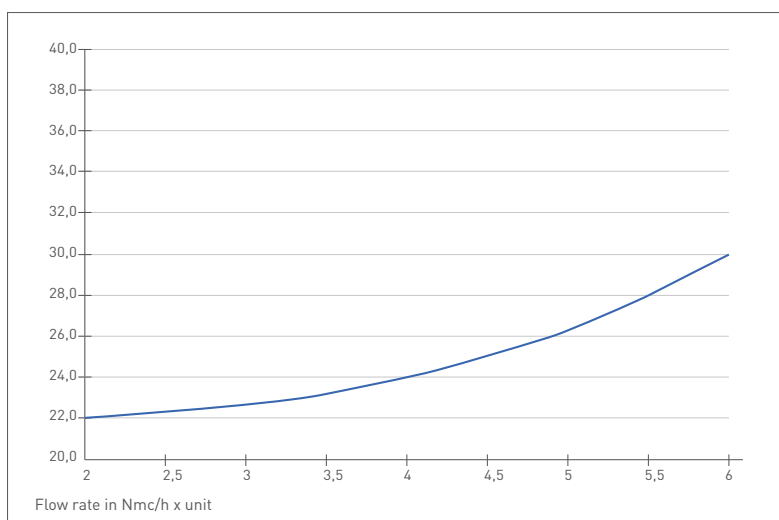
Oscillating non return valve, makes sure that the non return valve can not be blocked from any dirty.



### ECOFLEX® EC050S DISC DIFFUSER 60 MICRO OXYGEN TRANSFER EFFICIENCY

— Oxygen transfer rate O2 in gr / Nmc \* m submersion

Data are referd to in clean tap water standard condition at 20°C, 101,3kPa



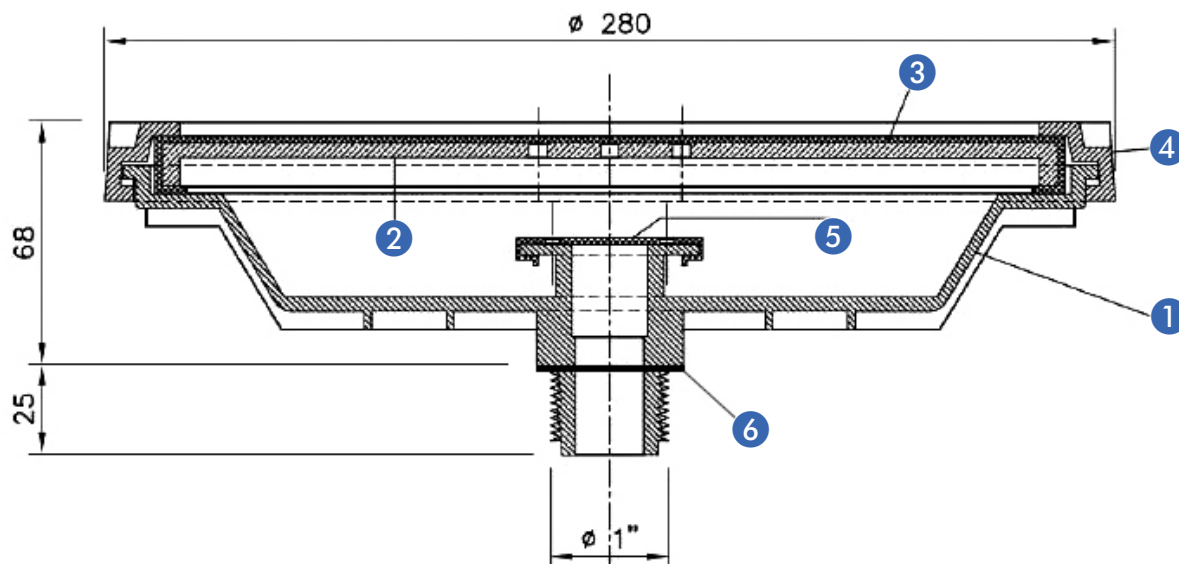
### ECOFLEX® EC050S DISC DIFFUSER 60 MICRO HEAD LOSS

— Head loss in mbar

Data are referd to in clean tap water standard condition at 20°C, 101,3kPa

Comparable values can only be obtained with a similar setup and condition. Depending on the tank geometry, slit chart, water depth and planar allocation, the quoted values can change. All the data are based on clean water 20° temperature, 1013mbar / 68°F, 101,3kpa. All data are approximate data!

## INSTALLATION DRAWING



## ECOFLEX® DISC DIFFUSER, MATERIAL OF THE SINGLE COMPONENTS

Number	Description	Material
1	Diffuser body	Polypropilene, glass fiber reinforced
2	Innerplate	Polypropilene, glass fiber reinforced
3	Diffuser membrane	SILICONE Brillant! Surface with enhanced antistick characteristic to reduce encrustations
4	Retaining ring	Polypropilene, glass fiber reinforced
5	Non return valve	Silicone
6	Gasket	EPDM

## ECOFLEX® DISC DIFFUSER, DIMENSION

Type	Height (mm)	Diameter total (mm)	Diameter effective (mm)	Over all height above distributor (mm)	Perforated area (m²)	Total weight (kg)
Ecoflex®	93	280	240	68	0,05	1,1

All data are approximate data!

## AIR FLOW

The **air flow area** of Ecoflex® Silicone disc diffusers ranges **from 2 to 14 Nm<sup>3</sup>/(h x unit)**, depending on the perforation.

## STORAGE

The diffusers as well as all accessories must be stored with their original packing in a dry and aerated room, considering DIN 7716. Frost, heat, solar radiation, dust and work that might lead to damage of the diffusers and their packing have to be avoided. Do not store outdoors! The storage of rubber components

up to the installation/start-up should not exceed 1 year. With delivery to a building site, the diffusers must be stored reclined with their original packing. Should they be transported in open receptacles, e.g. lattice boxes, the diffusers have to be covered with a tarpaulin against UV radiation.

## MAINTENANCE

Diffusers can only be checked while the activated sludge tank is out of work and empty. Therefore conventional cleaning must be done during the process. Formic acid is used very successfully against scale. To keep the pores open, the formic

acid is sprayed into the compressed air for a short time. Also a regular use with maximum air flow for a short time helps keeping the diffusers in good condition for a long time. (Refer to maintenance manual)

## MEMBRANE LIFETIME

More than 5 years in municipal waste water treatment plants, depending on wastewater compound and operating method.





## CONTACT

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