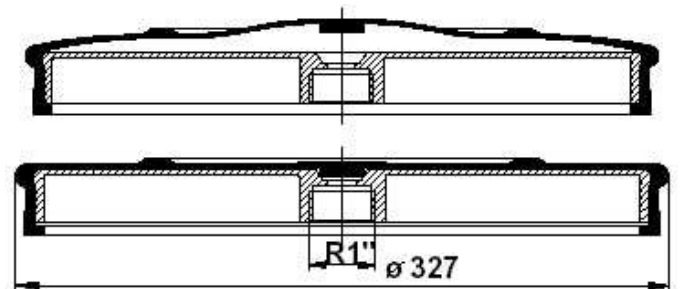


# EPDM Membrane Disc Diffusers

Mantec Filtration offers a range of tube and disc fine bubble diffusers available in ceramic or EPDM materials. This data sheet provides details of the EPDM membrane disc diffusers. In the manufacture of the diffusers, special attention is devoted to the quality of the EPDM membrane a decisive factor for both the life and the economics of aeration systems.

The EPDM processing parameters specified for membrane discs (e.g. EPDM mixture, processing temperature and velocity, mould temperature, etc.) are set and recorded on the basis of a calibration curve by a computer-controlled, fully automatic process. The subsequent shaping of the membrane is by vacuum injection moulding - a process excluding wake space and air inclusions. Up-to-date technology ensures super-fine membrane slits. They are suited for intermittent aeration.



The air supply passes beneath the membrane centrally, also forming an air cushion. This causes the membrane perforation to open so that the air streams into the wastewater. The particularly favorable input behavior of this diffuser is made possible by a tension ring reinforcement inside the membrane. The membrane will change its deformation behavior and is depressed without mechanical means. An additional sealing effect in rest position is achieved by the sealing stopper of the membrane which sinks down into the conical sealing surfaces of the support plate (reset valve).



# EPDM Membrane Disc Diffusers

## Performance Data

The Performance Data of the EPDM Membrane Disc Diffusers can be found in the graphs on the right. Please note that this information is provided for guidance purposes only.



Measurements were taken under standard conditions according ATV M209 (clean water, water depth = 4,0 m, density of aerators 1,1 pc. EMS / m<sup>2</sup>)

### Recommended air passage

Standard: 6-8 Nm<sup>3</sup> / (hr. Dif)

Max.: 12 Nm<sup>3</sup> / (hr . Dif) (for continuously running, for a few minutes up to 18 Nm<sup>3</sup>/ (hr.Dif.))

Min.: 2 Nm<sup>3</sup> / (hr. Dif)

