



Sanitary  
flow  
equipment



## SILICONE DIAPHRAGM

### DESCRIPTION

Build by **Silopren® LSR 2670** a silicone elastomer composed from two components, it is supplied by GE Bayer Silicones and it is obtained with a modern system of injection molding. After molding, they undergo a heat treatment (post-cured) of 4 hours at 200°C inside a furnace with forced ventilation. They are manufactured by four different model with the followings different sizes from 3/4" @ 2", during the molding phase, it is embed inside it a special AISI 316L screwed bush in order to fix it on the stem.


All diaphragms are manufactured in 100% silicone of medical grade conforming to the following norms:

- FDA Code of Federal Regulation CFR 177.2600

They are supplied with a Declaration of Conformity.



### TRACIABILITY

About the traciability, each diaphragm is marked on its top edge  with month and year of production according to business quality standards.

### OPERATING PRESSURE

Minimum - 1 bar g

Maximum 6 bar g.

### OPERATING TEMPERATURE

Minimum - 10 °C

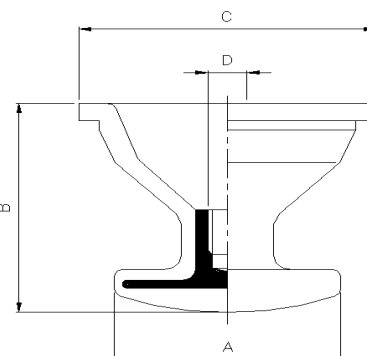
Maximum 150 °C (It is recommended for short time only, for example sterilization cycles with steam)

THE INSPECTION CHECK AND MAINTENANCE INTERVALS CAN DEPENDS FROM OPERATING CONDITIONS AS TEMPERATURE, PRESSURE AND FLUID TYPE, BUT IT IS BETTER KEEP TO THE FOLLOWING

### INSPECTION INTERVALS

For water use with temp. <100°C = every 1.000 h

For steam use with Max. temp.150°C = every 300 h



**HOWEVER, ALWAYS REMAIN TO THE USER, THE RESPONSABILITY TO FIX A SUITABLE PROCEDURE WITH THE INTERVALS AND FORMALITY IN ORDER TO REPLACE THE DIAPHRAGM BASED ON OWN EXPERIENCE.**

	LSR 2670
<b>Physical Properties (post-cured)</b>	
Appearance	translucent
Specific gravity [g/cm <sup>3</sup> ]	1,14
Shore A hardness (DIN 53 505)	70
Tensile strength [MPa] (DIN 53 504)	9
Elongation at break [%] (DIN 53 504)	400
Tear strength [N/mm] (ASTM-D 624 die B)	20
Compression set after 22h/175°C [%] (DIN 53 517)	25

Dimension	A	B	C	D
<b>Type</b>	mm	mm	mm	Screw
MVA-075-X	23	23,5	36	M4
MVA-100-X	35	35	50	M6
MVA-150-X	45	53	61	M8
MVA-200-X	67	68	97,5	M8

**Get the information you need and more at : [info@aerreinox.it](mailto:info@aerreinox.it)**

In the interests of development and improvement of the product, we reserve the right to change the specifications without prior notice.

**Aerre Inox s.r.l.**

26010 FIESCO Via Gerola n.4 -CREMONA - Italy  
Tel. +39. 0374. 370828 Fax +39. 0374. 370833  
e-mail : [info@aerreinox.it](mailto:info@aerreinox.it) http : [www.aerreinox.it](http://www.aerreinox.it)