

### Presentation

⇒ The air cells **Mustbalance® (MBT)** compensate oil volume variations due to temperature variations. They are installed in the conservator tank and exert a continuous pressure on the oil volume. They are connected to the atmospheric air thanks to a flange. With the air cells they are less condensation and oxidation inside the transformer. They protect transformer oil and preserve dielectric strength.

⇒ Their size and shape can be adapted to any conservator: rectangular, elliptical, octagonal or flat bottom cylindrical conservators. Each air cell can be equipped with flange and loops to meet specific conservator tank designs

⇒ As the inside is still in contact with air and the outside with oil, they are made of high elastomer coated fabrics that can resist to oils without contaminating them and to ozone and to steam. We can supply different kind of fabrics coated with rubber according your requirement. We have some material which can resist in operation from -50°C to +120°C.

⇒ No maintenance is required. The rubber bags **Mustbalance® (MBT)** can easily be efficient up to 10 years according to the use and storage conditions.



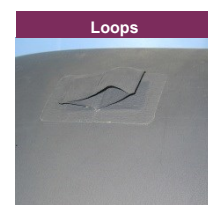
### Technical characteristics of the standard material

TESTS	STANDARD	UNIT		RESULT
Coating				NBR
Tensile strength CH TR	ISO 1421	daN/5cm	CH	>=300
Elongation at break CH TR	ISO 1421	%	CH	10
Using temperature	dynamic static			-20°C/+110°C -40°C/+120°C
Peeling strength	ISO36	daN/5cm		>20
Ozone resistance		96h		Without cracks
Oxygen permeability		m²Pa-1s-1		3,0 10**-10
Water vapo permeability		g/m².24h		11
Delta tangente 100°C	NFC27-210/NFEN60247			0.015

The data on this file are indicative ad based one one lab results. The customer must perform regularity tests and control on the material and equipment.

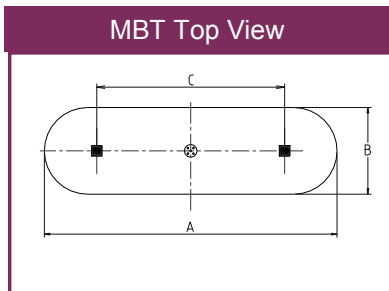
### Standard fittings

⇒ The **rubber bags Mustbalance® (MBT)** are equipped with a flange in bichromated steel and loops. The type of flange, the quantity of loops and their positions can be defined by the customer in order to match conservator tank.



## Sizes

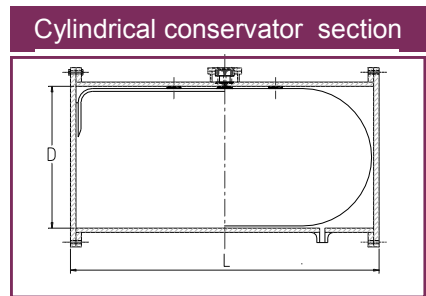
⇒ The rubber bags **Mustbalance® (MBT) sizes** are defined by the shape of the conservator.



$$A = L - D + B$$

$$B = D \times 3.14/2 + 40 \text{ mm}$$

$$C = A - B - 200 \text{ mm}$$



⇒ You will find below an extract of our **Mustbalance® (MBT) standard range**.

REFERENCE	CONSERVATOR SIZES			RUBBER AIR CELL SIZES			
	Volume	Diameter D	Length L	Expansion Volume	Length A	Width B	Loop distance C
	<i>liter</i>	<i>mm</i>	<i>mm</i>	<i>liters</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>
MBT 500-2710	532	500	2710	499	3035	825	2010
MBT 1300-3450	4577	1300	3450	4002	4231	2081	1950
MBT 1300-4200	5572	1300	4200	4997	4981	2081	2700
MBT 1400-4360	6708	1400	4360	5990	5198	2238	2760
MBT 1400-5200	8001	1400	5200	7283	6038	2238	3600
MBT 1600-6000	12058	1600	6000	10986	6952	2552	4200
MBT 2000-5970	18746	2000	5970	16652	7150	3180	3770

## Additional products

### FLEXIBLE TANKS



For the storage of the transformer oil with its retention basin



For the transport of the transformer oil

### PUMPS

To fill or empty the oil from the transformer



**MBT Mustbalance®** is a comprehensive product line including **MBH Mustbalance®** regulators can be used in power transformers, scanner and radiology appliances, submarine batteries... **CONTACT US**  
or electric transformers.



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