

/ Description

The insulation shells for hydraulic compensator, our item C303, are designed to improve the thermal insulation of hydraulic compensators, reducing heat loss and preventing the formation of condensation. Thanks to the lightweight and resistant structure, they ensure effective and long-lasting protection.



/ Main Features

- Material: Hot-coupled double-density cross-linked polyolefin (PO) foam (total thickness 20 mm);
- 30Kg/m³ for the interior, th. 15 mm, particularly suitable for insulation in low temperatures as it avoids the formation of ice and/or condensation;
- 80kg/m³ for the exterior, th. 5 mm, scratch-resistant and weather-resistant;
- anti-condensation function: protects against moisture and prevents the formation of condensation;
- energy efficiency: improves thermal insulation by reducing heat loss;
- compatibility: suitable for various models of hydraulic separators (table reference).

/ Outer layer properties

Properties of the outer layer of the insulation, without direct contact with the material subject to thermal insulation:

PROPERTY	STANDARD	UNIT	VALUE
Density	ISO 845	Kg/m ³	80
Compressive strength with 10% deformation	ISO 3386/1	kPa	110
Compressive strength with 25% deformation	ISO 3386/1	kPa	150
Compressive strength with 50% deformation	ISO 3386/1	kPa	260
Transversal breakage elongation	ISO 1798	%	160
Longitudinal breakage elongation	ISO 1798	%	170
Transversal tensile strength	ISO 1798	MPa	0.6
Longitudinal tensile strength	ISO 1798	MPa	0.8
Permanent deformation 25%, 22h, 23°C, 0.5h	ISO 1856	%	9
Permanent deformation 25%, 22h, 23°C, 24h	ISO 1856	%	1.5
Permanent deformation 50%, 22h, 23°C, 0.5h	ISO 1856	%	30
Permanent deformation 50%, 22h, 23°C, 24h	ISO 1856	%	15
Dimensional stability	ISO 2796	°C	105
Thermal conductivity (40°C)	EN 12667	W/mK	0.0494
Reaction to fire [B2]	DIN 4102	class	B2
Flammability (<100 mm/min)	ISO 3795	thickn. mm	NBR*
Flammability	UL 94	class	HF-2

*material that is extinguished almost immediately.



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/ Inner layer properties

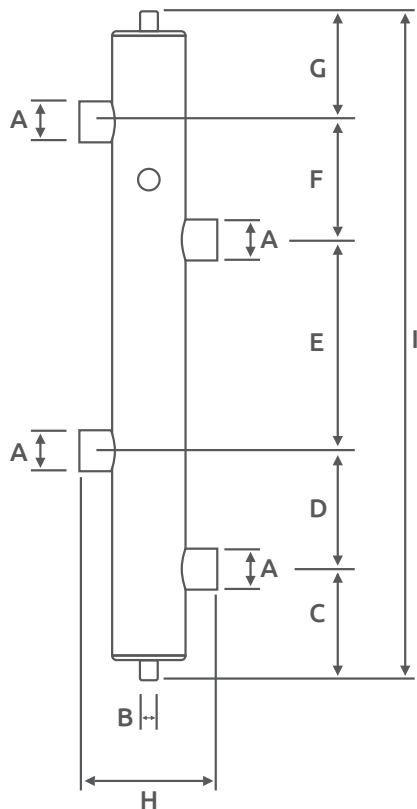
Properties of the inner layer of the insulation in direct contact with the material subject to thermal insulation:

PROPERTY	STANDARD	UNIT	VALUE
Density	ISO 845	Kg/m ³	30
Compressive strength with 25% deformation	ISO 3386/1	kPa	29
Compressive strength with 50% deformation	ISO 3386/1	kPa	85
Longitudinal tear resistance	ISO 34-1 A	N/mm	0.63
Transversal tear resistance	ISO 34-1 A	N/mm	0.68
Longitudinal tensile strength	ISO 1798	MPa	0.28
Transversal tensile strength	ISO 1798	MPa	0.21
Longitudinal breakage elongation	ISO 1798	%	170
Transversal breakage elongation	ISO 1798	%	200
Thermal conductivity (40°C)	EN 12667	W/mK	0.041
Water absorption (24h)	ISO 2896	Vol.%	<1
Permanent deformation 25%, 22h, 23°C, 0.5h	ISO 1856	%	20
Permanent deformation 25%, 22h, 23°C, 24h	ISO 1856	%	12
Permanent deformation 50%, 22h, 23°C, 0.5h	ISO 1856	%	44
Permanent deformation 50%, 22h, 23°C, 24h	ISO 1856	%	33
Dimensional stability	ISO 2796	°C	85
Reaction to fire [B2]	DIN 4102	class	B2
Water vapour diffusion coefficient	ISO 12572	μ	1300
Flammability	UL 94	class	HF-1



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/ Dimensions



Shell model	Hydraulic separator model	A
92C313AF66	92C303AF06	1"
92C313AG66	92C303AG06	1"/4
92C313AH66	92C303AH06	1"1/2
92C313AJ66	92C303AJ06	2"

Refer to the technical data sheet of the relative hydraulic separator mod. C303 for full linear dimensions. Regarding the areas covered by insulation, consider an increase in diameter of approximately 40mm.