

## Filter Cartridge Housing BECO INTEGRA® CART KA Range

Eaton's BECO INTEGRA CART KA cartridge housings are manufactured of stainless steel AISI 316L and can be applied within the filtration of liquids in the food and beverage industry. This series is available as a 1-, 3-, 5-, 8-, 12-, 18-, 24- and 30-fold cartridges version for sterile filtration or prefiltration purposes. These housings are ATEX certified.

### Special Features

- ATEX certified
- Application of material AISI 316L avoids corrosion even at long term use
- High safety by application of code 7 adapters (double-leaf bayonet locking)
- Optimized design allows thorough and quick cleaning
- Low product loss thanks to compact design
- Resistant to hot water or steam sterilization
- CIP-cleanable (fluid group 1)

### Application

All BECO INTEGRA CART KA cartridge housings (1- to 30-fold) are designed for the filtration of media of fluid group 2 according to Pressure Equipment Directive PED 2014/68/EU. A variety of different housing heights between 10" and 20" or 30" and 40" allows a perfect adaptation of the housing size to product volume to be filtered. This reduces product loss to a minimum. An optimized filtrate chamber design and special filter surface finish provide very easy cleaning and sterilization.

The BECO INTEGRA CART KA cartridge housings are suitable for applications with Eaton's BECO® pre-filter cartridges and BECO membrane filter cartridges.

Other variations and further components for expansion to complete systems are available on request and would be customized according to specification.



### Technical Data

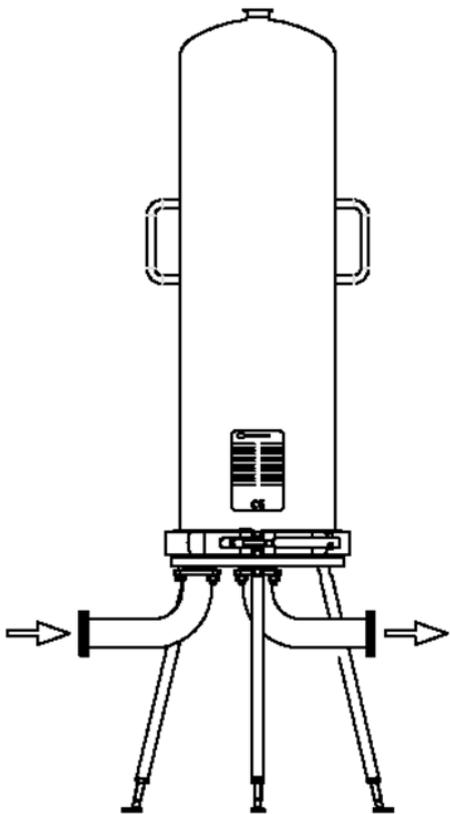
<b>Max. permissible operating pressure and temperature:</b>	<b>Fluid group 1</b> (liquids) 50 to 176°F (10 bis 80°C) 0 to 43.5 psi (0 bis 3 bar)
	<b>Fluid group 2</b> (liquids and gases) -4 to 104°F: -14.5 to 145 psi (-20 to 40°C: -1 to 10 bar) -4 to 302°F: -14.5 to 58 psi (-20 to 150°C: -1 to 4 bar)
<b>Product contacting parts:</b>	Stainless steel AISI 316L
<b>Gaskets:</b>	Silicone (EPDM, Viton available upon request)
<b>Housing suitable for:</b>	Media of fluid group 2 according to PED 2014/68/EU
<b>ATEX classification:</b>	II -/2 G Ex h IIC T3...T6 -/Gb X
<b>Housing connection:</b>	Threaded male connection acc. to DIN 11851 (others available upon request)
<b>Housing closure:</b>	1- 8-fold: quick closure 12-30-fold: clamp screws
<b>Vent connection:</b>	TC connection 1,5"
<b>Drain:</b>	None (solutions available upon request)
<b>Fittings:</b>	Vent and drain units are available at special request.



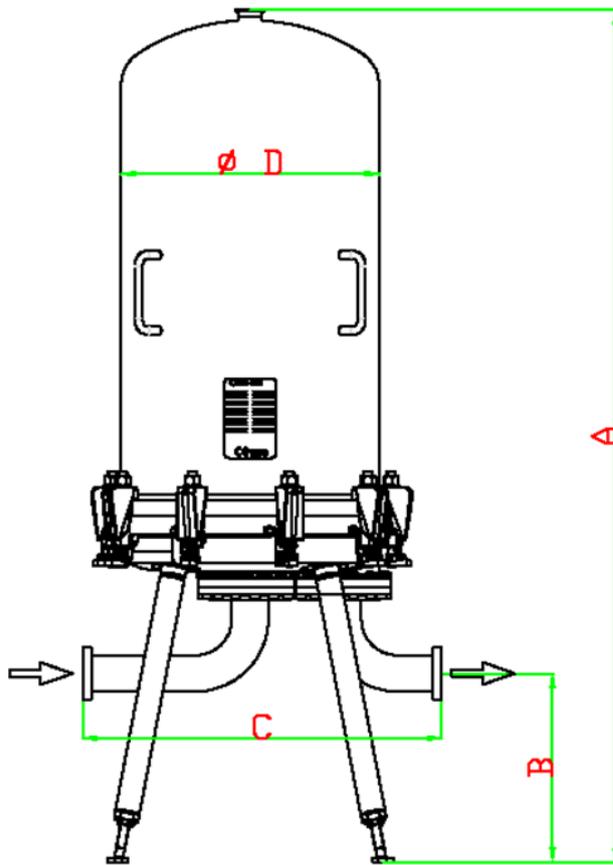
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Article number	Qty	Cartr. length	Dimensions in (mm)				Connections DIN 11851	Volume	Weight	Perm. pressure psi (bar) at up to -4 to 302°F (-20 to 150°C)	Perm. pressure psi (bar) at -4 to 104°F (-20 to 40°C)
			in	A	B	C					
KA117X25	1	10	31.1 (790)	14.76 (375)	8.7 (220)	4.0 (102)	DN 25	0.79 (3,0)	15.43 (7.0)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA127X25	1	20	40.94 (1,040)	14.76 (375)	8.7 (220)	4.0 (102)	DN 25	1.26 (4,8)	18.8 (8,2)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA137X25	1	30	50.78 (1,290)	14.76 (375)	8.7 (220)	4.0 (102)	DN 25	1.77 (6,7)	20.7 (9,4)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA147X25	1	40	61.18 (1,554)	14.76 (375)	8.7 (220)	4.0 (102)	DN 25	2.27 (8,6)	23.4 (10,6)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA337X40	3	30	52.28 (1,328)	13.6 (345)	13.8 (351)	6.6 (168)	DN 40	4.70 (17,8)	47.2 (21,4)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA347X40	3	40	62.13 (1,578)	13.6 (345)	13.8 (351)	6.6 (168)	DN 40	6.10 (23,1)	51.6 (23,4)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA537X50	5	30	52.95 (1,345)	12.4 (315)	16.7 (423)	8.6 (219)	DN 50	7.69 (29,1)	48.5 (22)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA547X50	5	40	62.80 (1,595)	12.4 (315)	16.7 (423)	8.6 (219)	DN 50	10.09 (38,2)	52.9 (24)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA837X50	8	30	53.74 (1,365)	12.4 (315)	17.7 (449)	10.8 (273)	DN 50	13.13 (49,7)	72.8 (33)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA847X50	8	40	63.58 (1,615)	12.4 (315)	17.7 (449)	10.8 (273)	DN 50	16.88 (63,9)	79.4 (36)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA123765	12	30	57.68 (1,465)	12.8 (326)	21.5 (547)	13.8 (350)	DN 65	23.25 (88)	145.5 (66)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA124765	12	40	67.52 (1,715)	12.8 (326)	21.5 (547)	13.8 (350)	DN 65	29.59 (112)	154.3 (70)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA183765	18	30	58.11 (1,476)	12.8 (325)	22.2 (564)	15.8 (400)	DN 65	30.38 (115)	149.9 (68)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA184765	18	40	67.95 (1,726)	12.8 (325)	22.2 (564)	15.8 (400)	DN 65	38.57 (146)	163.1 (74)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA243780	24	30	59.25 (1,505)	13.0 (331)	25.0 (634)	17.7 (450)	DN 80	39.89 (151)	231.5 (105)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA244780	24	40	69.02 (1,753)	13.0 (331)	25.0 (634)	17.7 (450)	DN 80	50.19 (190)	251.3 (114)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA303780	30	30	59.45 (1,510)	13.0 (331)	29.1 (740)	21.7 (550)	DN 80	62.08 (235)	240.3 (109)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)
KA304780	30	40	69.29 (1,760)	13.0 (331)	29.1 (740)	21.7 (550)	DN 80	77.40 (293)	257.9 (117)	-14.5/+58 (-1/+4.0)	-14.5/+145 (-1/+10)

BECO INTEGRA CART KA cartridge housings with quick closure and with clamp screws



1- to 8-fold cartridge housing  
(design with quick closure)



12- to 30-fold cartridge housing  
(design with clamp screws)

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03-2022

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