

# Cartridge Housings

## BECO INTEGRA CART, K Range

1 A 7.2.3 · NSh

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### For large flow rates

BECO INTEGRA CART cartridge housings are manufactured of AISI 316 stainless steel and are designed for use in liquid filtration processes in the beverages industries. This range is available as a 8-, 12, 16, 24, 36- and 48- fold cartridge version for sterile filtration or prefiltration purposes.

#### Special Features

- ▶ The use of material AISI 316L/316 Ti avoids corrosion, even after long use.
- ▶ High safety by use of the Code-7-adaper (double bayonet catch).
- ▶ The optimized design of the housing permits thorough quick cleaning.
- ▶ Low product loss on account of compact construction.
- ▶ Sterilization with hot water or steam.

#### Application

All BECO INTEGRA CART cartridge housings of this range are suitable for filtration of liquids and gaseous media of fluid groups 1 and 2 according to the Pressure Equipment Directive (PED) DGRL 97/23/EG. Different housing heights of 30" to 40" permit optimized adaption of housing size to product volume to be filtered. This reduces product loss and waste to a minimum. An optimized filtrate chamber design and an a special filter surface finish provide for very easy cleaning and sterilizing.

The BECO INTEGRA CART cartridge housings are suitable for the accommodation of BECO prefilter cartridges and BECO membrane filter cartridges.

Other designs and further components for expansion to complete systems are available, depending on the customers' requirements.

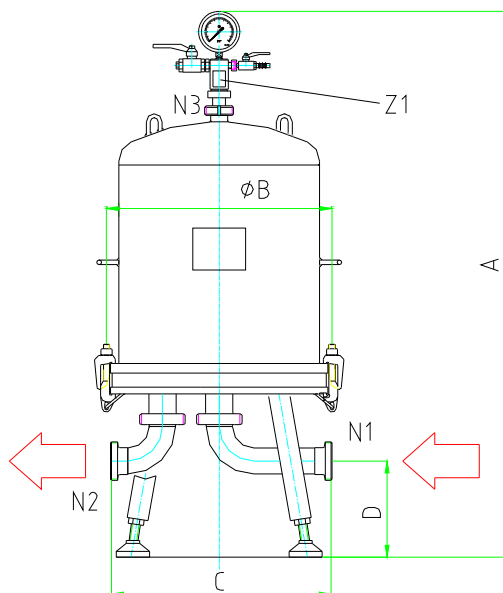
#### Technical Data

|                                         |                                                                                                        |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------|
| Max. permissible operating pressure:    | 6 – 10 bar                                                                                             |
| Max. permissible operating temperature: | 120 – 140 °C depending on operating pressure                                                           |
| Housing material:                       |                                                                                                        |
| Product contacting:                     | stainless steel AISI 316L/316 Ti                                                                       |
| Other:                                  | stainless steel AISI 304                                                                               |
| Gaskets, seals:                         | EPDM (viton, silicone) as request                                                                      |
| Housing suitable for:                   | media of fluid group 1 and 2 according to DGRL (PED) 97/23/EG                                          |
| Housing connections:                    | DIN 11851 round thread connection                                                                      |
| Vent:                                   | round thread connection DN 40 according to DIN 11851                                                   |
| Drain:                                  | none (should be arranged in the pipe installation of inlet and outlet)                                 |
| Fittings:                               | vent unit (Z1) is included in the scope of delivery<br>drainage unit as additional equipment available |

Customs tariff no.8421 29 00



| Article-no. | No. of catr. | Length of catr. | Dimensions [mm] |     |     |     | Connections Standard DIN11851 |        |      | Capacity [l] | Weight [kg]  | Op. pressure [bar] | Temperature [°C] |
|-------------|--------------|-----------------|-----------------|-----|-----|-----|-------------------------------|--------|------|--------------|--------------|--------------------|------------------|
|             |              |                 | A               | B   | C   | D   | Inlet                         | Outlet | Vent |              |              |                    |                  |
| K083(4)7050 | 8            | 30"<br>(40")    | 1470<br>(1720)  | 350 | 306 | 450 | 50                            | 50     | 40   | 59<br>(77)   | 65<br>(75)   | 10                 | 140              |
| K123(4)7065 | 12           | 30"<br>(40")    | 1470<br>(1720)  | 450 | 306 | 450 | 65                            | 65     | 40   | 108<br>(140) | 90<br>(103)  | 10                 | 140              |
| K163(4)7065 | 16           | 30"<br>(40")    | 1470<br>(1720)  | 450 | 306 | 450 | 65                            | 65     | 40   | 108<br>(140) | 90<br>(103)  | 10                 | 140              |
| K243(4)7080 | 24           | 30"<br>(40")    | 1470<br>(1720)  | 550 | 508 | 450 | 80                            | 80     | 40   | 169<br>(216) | 180<br>(205) | 10                 | 140              |
| K243(4)7086 | 24           | 30"<br>(40")    | 1470<br>(1720)  | 550 | 508 | 450 | 80                            | 80     | 40   | 169<br>(216) | 180<br>(205) | 6                  | 120              |
| K363(4)7100 | 36           | 30"<br>(40")    | 1470<br>(1720)  | 651 | 610 | 450 | 100                           | 100    | 40   | 251<br>(324) | 244<br>(278) | 10                 | 140              |
| K363(4)7106 | 36           | 30"<br>(40")    | 1470<br>(1720)  | 651 | 610 | 450 | 100                           | 100    | 40   | 251<br>(324) | 244<br>(278) | 6                  | 120              |
| K483(4)7100 | 48           | 30"<br>(40")    | 1470<br>(1720)  | 751 | 765 | 450 | 100                           | 100    | 40   | 362<br>(470) | 308<br>(350) | 10                 | 140              |
| K483(4)7106 | 48           | 30"<br>(40")    | 1470<br>(1720)  | 751 | 765 | 450 | 100                           | 100    | 40   | 362<br>(470) | 308<br>(350) | 6                  | 120              |



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