

Stacked Disc Cartridge Housing BECO INTEGRA® DISC MP Range

Enclosed Stacked Disc Cartridge Housing in Sanitary Design

The BECO INTEGRA DISC MP stacked disc cartridge housing is an enclosed depth filtration system which can be used for the filtration of various liquids in the biotechnology and pharmaceutical industries.

Special Features

- CIP/SIP cleaning of the enclosed system without stacked disc cartridges is possible
- Completely drain housing through specially designed base
- Easy handling thanks to v-clamp closure for 12" and 16" stacked disc cartridge housings
- Low capital costs with relatively large filter areas and simple integration into existing processes
- Variable application using stacked disc cartridges with flat or double O-ring adapter. Variable column heights allow for adaptable filter area
- Small footprint through compact design and easy integration into the filtration process
- The design and construction of BECO INTEGRA DISC MP housing complies with the requirements of the cGMP guidelines and the FDA regulations

Customized housings or additional components allow for system expansion or complete systems according to customer specifications



Technical Data

Operating pressure liquids and gases:	max. 87 psi (600 kPa/6 bar)
Operation temperature:	-4/+284 °F (-20/+140 °C)



Type	Filter area* ft ² (m ²)	Stacked disc cartridges	Dimensions A / B / C / D / E / F in (mm)	Vessel volume gal (l)	Article no. flat adapter F	Article no. double O- ring S	Weight ≈ lbs (kg)
12"/1F(S)5../6P	6.4 (0.59)	1 x 12"	17.36/7.72/12.76/6.30/1/1 (441/196/324/160/1"/1")	3.44 (13)	MPF1K210	MPS1K210	88.2 (40)
12"/1F(S)9../6P	11.8 (1.10)	1 x 12"	21.10/11.46/12.76/6.30/1/1 (536/291/324/160/1"/1")	5.55 (21)	MPF1M210	MPS1M210	94.8 (43)
12"/1F(S)../6P	20.5 (1.90*)	1 x 12"	24.29/14.65/12.76/6.30/1/1 (617/372/324/160/1"/1.5")	7.13 (27)	MPF1G210	MPS1G210	99.2 (45)
12"/2F(S)../6P	40.9 (3.80*)	2 x 12"	41.42/28.58/12.76/6.30/1/1.5 (1,052/726/324/160/1"/1.5")	14.53 (55)	MPF2G215	MPS2G215	143.3 (65)
12"/3F(S)../6P	61.4 (5.70)*	3 x 12"	52.24/39.41/12.76/6.30/1/1.5 (1,327/1,001/324/160/1"/1.5")	20.10 (76)	MPF3G215	MPS3G215	187.4 (85)
12"/4F(S)../6P	81.8 (7.60*)	4 x 12"	63.07/50.24/12.76/6.30/1/1.5 (1,602/1,276/324/160/1"/1.5")	25.89 (98)	MPF4G215	MPS4G215	231.5 (105)
16"/1F(S)../6P	39.8 (3.70*)	1 x 16"	32.68/20.00/17.72/9.84/1.5/2 (830/508/450/250/1.5"/2")	17.96 (68)	MPF1G620	MPS1G620	231.5 (105)
16"/2F(S)../6P	79.7 (7.40*)	2 x 16"	43.70/30.83/17.72/9.84/1.5/2 (1,110/783/450/250/1.5"/2")	28.79 (109)	MPF2G620	MPS2G620	264.6 (120)
16"/3F(S)../6P	119.5 (11.10*)	3 x 16"	54.33/41.65/17.72/9.84/1.5/2 (1,380/1,058/450/250/1.5"/2")	39.89 (151)	MPF3G620	MPS3G620	297.6 (135)
16"/4F(S)../6P	159.3 (14.80*)	4 x 16"	65.35/52.48/17.72/9.84/1.5/2 (1,660/1,333/450/250/1.5"/2")	50.99 (193)	MPF4G620	MPS4G620	330.7 (150)

* if stacked disc cartridges with 16 cells are used

Materials

Parts in contact with product:	Stainless steel AISI 316L
Other Parts:	Stainless steel AISI 304
Gaskets/O-rings:	EPDM, alternatively silicone, Viton, FEP coated (FDA listed)

Surface Treatment

Parts in contact with product:	Ground to Ra ≤ (0.8 μm), electro polished
Other Parts:	Ground to Ra ≤ (1.6 μm), electro polished

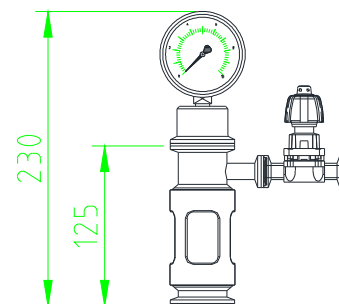
Connections

Filter inlet/outlet:	Tri-clamp, ASME BPE alternatively ISO 2852, DIN 32676, others
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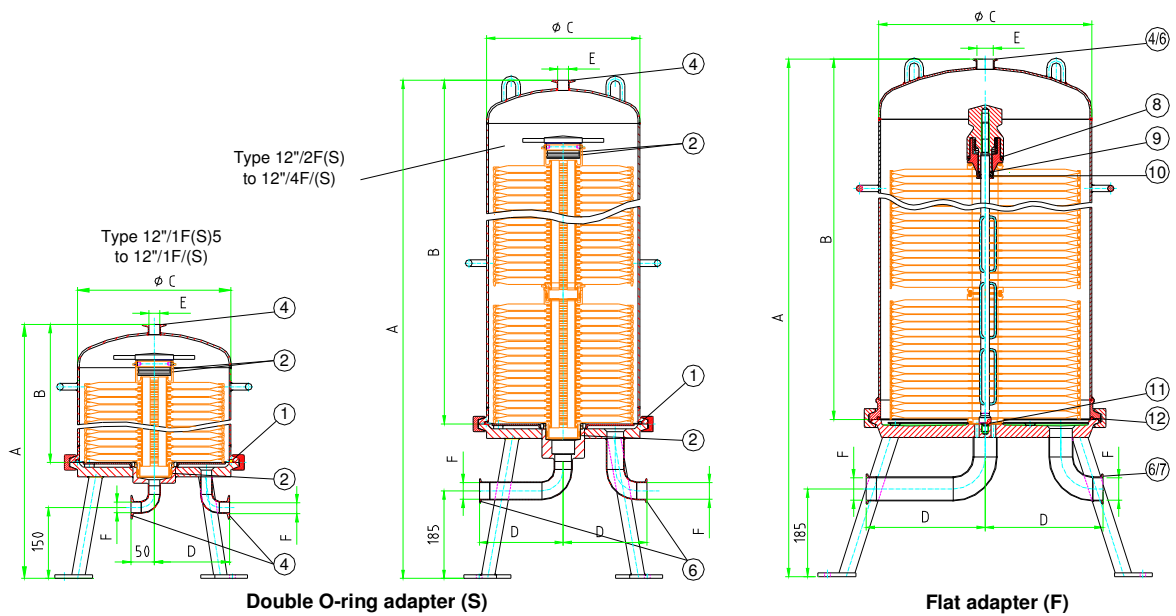
Manufactured and inspected

According to Pressure Equipment Directive (PED)
2014/68/EC (AD-2000 regulations). Classification as
fluid group 1, dangerous liquids and gases

Vent unit



Pos.	Description	Silicone	EPDM	Viton	FEP coated
1	O-ring (12")	P8800404	P8800102	P8800501	P8800601
2	O-ring	53070911	53070912	53070913	MDE28F12
4	Clamp gasket 1"	-	P8800702	-	-
5	Clamp gasket 1/2"	P7510505	P7510501	P7510513	P7510510
6	Clamp gasket 1 1/2"	P7510511	P7510507	P7510514	P8800713
7	Clamp gasket 2"	P7510512	P8800724	P8800715	P8800723
8	O-ring	-	P8800132	P8800143	P8800157
9	O-ring	-	P8800130	P8800142	P8800156
10	O-ring	-	P8800129	P8800141	P8800135
11	O-ring	-	P8800131	P8800144	P8800137
12	O-ring (16")	P4500964	P8800133	P8800148	P8800107



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