

Cuno 5DC Cartridge Filter Housings



Cuno 5DC model filter housings are designed to meet general purpose industrial and commercial filtration needs. All wetted welded surfaces are constructed from SS316L. External surfaces are blasted for a consistent, easy care finish. Fully electropolished units are available for use in more demanding applications. The 5DC range of housings are designed to accommodate flows of up to a maximum 400 litres per minute.

Applicable filter cartridges

The standard 5DC Housings accept both double open ended (DOE), as well as single open ended (SOE) style cartridges. Most models of Cuno filters can be used with the 5DC housing.

They include:

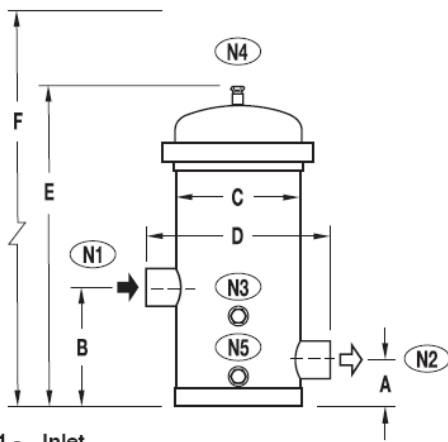
PolyNet™	Petro-Klean™
Beta-Klean™	Beta-Pure®
Micro-Klean III®	Micro-Wynd II®
PolyKLEAN™	Micro-Screen®
Poro-Klean®	Beta-Fine®
PolyPro® XL	Electropor™
BevASSURE™	LifeASSURE™
Activated Carbon Cartridge	

FEATURES

- All wetted welded surfaces are constructed of 316L grade stainless steel
- Locator tube extension on shouldered seal plates fit solidly into the cartridge core
- Spring seal assemblies
- V-band clamp closure
- Removable cartridge post design
- Fully electropolished finish available

BENEFITS

- Material is compatible with many fluids, ideal for use in a wide variety of applications
- Ensures alignment of cartridges giving a positive cartridge seal
- Design accepts the use of 9³/₄" or 10" modular cartridges, for greater flexibility
- Provides quick and easy cartridge change-out
- Removable post facilitates ease of cleaning
- Minimum particulate adhesion to wetted surface for use in critical applications



- N1 - Inlet
 N2 - Outlet
 N3 - Upstream drain
 N4 - Vent
 N5 - Clean side drain

Table 1: Standard housing dimensions

Filter Model	Connection (Inches)			Standard dimension (millimetre)						Approx Wt (Kg)
	Inlet/Outlet	Drain	Vent	A*	B	C	D	E*	F**	
5DC1	1 1/2" BSPF	3/4" BSPF	1/4" BSPF	80*	200*	206	310	585	795	16
5DC2	845							1325	18	
5DC3	1085							1690	21	
5DC4	1365							1970	24	

* Add 19mm for leg installation ** "F" is the space required to remove cartridge

Table 2 lists the maximum flow rate at various viscosities in litres per minute (LPM) for each DC model filter housing.

Table 2: Maximum flow rate (LPM)

Inlet/Outlet	Water	80 SSU	150 SSU	300 SSU	600 SSU	1000 SSU
1 1/2"	246	246	182	148	102	72
2"	397	340	322	292	257	208

Standard model specifications

The maximum operating temperature and pressure is the rating for the housing only. The filter cartridge capabilities will dictate process limits.

Maximum operating pressure	150 psi (10 Bar)
Maximum operating temperature	90°C
Materials of Construction	SS316L
Surface finish	Internal: Mechanically polished <0.4 µm External: Bead blast <1.2 µm
Gasket material	Nitrile (standard) EPR & Viton (optional)

Spare parts listing

Description	Model 5DC Part No
Cartridge post 1-High	17-3915040
Cartridge post 2-High	17-3915050
Cartridge post 3-High	17-3915060
Cartridge post 4-High	17-3915070
Spring	38391560932
Seal plate	38391560931
Spacer	38391560933
V-Band clamp	23-3756333
Nitrile gasket (standard)	16-37920-01
EPR gasket	16-37564-37
Viton gasket	16-37564-34

CAUTION: Do not use for steam, air or compressed gas filtration

WARRANTY

Seller warrants its equipment against defects in workmanship and material for a period of 12 months from date of shipment from the factory under normal use and service and otherwise when such equipment is used in accordance with instructions furnished by Seller and for purposes disclosed in writing at the time of purchase, if any. Any unauthorized alteration or modification of the equipment by Buyer will void this warranty. Seller's liability under this warranty shall be limited to the replacement or repair, F.O.B. point of manufacture, of any defective equipment or part which, having been returned to the factory, transportation charges prepaid, has been inspected and determined by the equipment but not supplied by the Seller.

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The information contained within this brochure is accurate at the time of printing, but is subject to change without notice.

Use data in table 2 only as a guide in establishing the maximum housing flow capacity; do not use it for filter sizing. Once a flow rate for a selected cartridge is known, use table to check whether the housings flow rate falls within the recommended guidelines.

When sizing a filter, the amount of contaminant to be removed needs to be considered in addition to the flow rate and desired pressure drop. Lowering initial pressure drop enhances filter cartridge life.

Cartridge requirement

The DC housing accepts both single and multiple length filter cartridges. Table 3 lists the number of cartridges required for each model.

Table 3: Cartridge requirement

Model	Nominal cartridge length			
	1-High	2-High	3-High	4-High
5DC1	5	-	-	-
5DC2	10	5	-	-
5DC3	15	-	5	-
5DC4	20	-	-	5

Part no.	Model No.	Housing Materials of construction	No. of cartridges	inlet/Outlet connections
11-44077-01	5DC1	SS316L	5	1 1/2" BSP Female
11-44077-02	5DC2	SS316L	10	2" BSP Female
11-44077-03	5DC3	SS316L	15	2" BSP Female
11-44077-04	5DC4	SS316L	20	2" BSP Female

Note: Cover gasket is Nitrile as standard. Options include: EPR & Viton



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