

3M Purification

3M Housing CT Series

For Cartridge Filters



The CT Series Cartridge Filter Housings are three-piece, all-metal housings with ring-nut closures. These housings are designed to meet general industrial filtration needs. The CT Models offer you a choice in construction materials for wetted surfaces and are available in different grades of stainless steel (refer to table 3). They are available in one-high (CT101), two-high (CT102) or three-high (CT103) designs. All CT Model heads have tapped mounting pads and mounting brackets are available as an accessory. The CT Models have liquid flow rates of up to 96 lpm and a maximum operating pressure and temperature of 2000 kPa at 90°C. For air and gas service, CT Models have a maximum operating pressure and temperature of 1240 kPa at 90°C.

Features & Benefits

- Rugged, three-piece, all metal construction provides long service life and quick & easy cartridge changeout.
- Design flexibility: 1, 2 or 3 high cartridge models for use with 9^{3/4}" (248mm), 19^{1/2}" (495mm) or 29^{1/4}" (743mm) filter cartridges.
- Drilled and tapped mounting holes: Ready for mounting bracket installation.

Options

- Choice of gasket materials- Nitrile (standard), Fluorocarbon & PTFE

Applicable 3M Purification Filter Cartridges

3M™ Activated Carbon

BetaFine™ D

Micro-Klean™ RB

Micro-Klean™ D

Micro-Klean™ CS

Betapure™ PK

Betapure™ NT-T

LifeAssure™ 020SP

LifeAssure™ PFS

Operating Parameters

Table 1 lists standard model operating parameters for the CT models. In Table 1, the maximum operating pressure is the rating for the housing only. Actual filter operating temperature is dependent on the temperature capability of the filter cartridge.

Table 1 - Operating Parameters

Maximum Operating Pressure & Temperature	2000 kPa @ 90°C Liquid 1240 kPa @ 90°C Air / Gas
Flow Rate (GPM)	See Table 2

Cartridge Requirements

The CT101 and 102 Series Cartridge Filter Housings can use one or two 9^{3/4}" (248mm) equivalent single-length filter cartridges respectively. The CT102 Model can also use one 19^{1/2}" (495mm) filter cartridge.



Standard Model Specifications

Table 3 below lists standard model materials of construction, connection sizes, dimensions and part numbers for spare parts available. All dimensions are nominal and can be used for determining overall space requirements.

O-RING Part No.

AK200050230 CT Fluorocarbon O-Ring 235T

AK200050206 CT Nitrile O-Ring 235^

AK200050214 CT PTFE O-Ring 235V

^Nitrile O-ring supplied as standard.

Flow Rates

Table 2 lists the maximum recommended flow rates in Litres Per Minute (LPM) for the CT101 and 102 Models. Use the data on Table 2 only as a guide in establishing housing flow capability; do not use it for filter sizing. Once you know the flow rate for a selected cartridge, then use Table 2 to check whether the housing's flow rates fall within the recommended guidelines. When selecting a filter's size, make sure you consider the amount of contaminant you want removed as well as the flow requirements; this ensures the longest possible cartridge life.

Inlet / Outlet	Water 1cP	15cP	30cP	60cP	120cP	200cP
3/4"	59	52	48	45	37	30
1"	96	82	74	67	60	48

Table 3 - Standard model materials of construction, connection sizes, dimensions and part numbers

Housing Model (Part no.)	CT101					CT102					CT103
	AK200038656	AK200101561	AK200124373	AK200101579*	AK200124555*	AK200102494	AK200124381	AK200101587*	AK200124563*	AK200124571*	
Material	Head	SS 304	SS 316	SS 316	SS 316	SS 316	SS 316	SS 316	SS 316	SS 316	SS 316
	Sump	SS 304	SS 304	SS 316	SS 316	SS 316	SS 304	SS 316	SS 316	SS 316	SS 316
	Ring Nut	SS 304	Brass (Nickel Plated)	Brass (Nickel Plated)	Brass (Nickel Plated)	Brass (Nickel Plated)	Brass (Nickel Plated)	Brass (Nickel Plated)	Brass (Nickel Plated)	Brass (Nickel Plated)	Brass (Nickel Plated)
	O-ring	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile	Nitrile
Connections	3/4" BSPT-F	1" BSPP-F**	1" BSPP-F	1" BSPP-F**	3/4" BSPP-F	1" BSPP-F**	1" BSPP-F	1" BSPP-F**	3/4" BSPP-F	1" BSPP-F	
Origin of Manufacturer	Korean	USA	USA	USA	USA	USA	USA	USA	USA	USA	
Face to Face (mm)	90	170**	90	170**	90	170**	90	170**	90	90	
Overall Length (mm)	313	313	321	321	321	560	568	568	568	816	
Head Top Vent	N/A	N/A	1/4" BSP-F (Plugged)	1/4" UNC (Plugged)	1/4" BSP-F (Plugged)	N/A	1/4" BSP-F (Plugged)	1/4" UNC (Plugged)	1/4" BSP-F (Plugged)	1/4" BSP-F (Plugged)	
Sump Bottom Drain	N/A	N/A	1/4" NPT-F (Plugged)	1/4" NPT-F (Plugged)	1/4" NPT-F (Plugged)	N/A	1/4" NPT-F (Plugged)	1/4" NPT-F (Plugged)	1/4" NPT-F (Plugged)	1/4" NPT-F (Plugged)	
Head Only	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Ring Nut Only	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Head & Ring Nut Only	AK200048283	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Sump	AK200042625	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Centre-Post	N/A	17-19198125 (FD000074613)	17-19198125 (FD000074613)	17-19198125 (FD000074613)	17-19198125 (FD000074613)*	17-19198135 (FD000074621)	17-19198135 (FD000074621)	17-19198135 (FD000074621)	17-19198135 (FD000074621)	17-19198145 (FD000074639)	
Mounting Bracket Included	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	Yes (AK200055114)	
Tommy Bar Included	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	Yes (AK200051600)	
Heavy Duty Spanner Included (Optional Part number)	No (AK200124126)	No (AK200124126)	No (AK200124126)	No (AK200124126)	No (AK200124126)	No (AK200124126)	No (AK200124126)	No (AK200124126)	No (AK200124126)	No (AK200124126)	

* Special Order Item - Please allow additional delivery time.

** 1" NPT-M to BSP-F adaptor fitted

Important Notice

The information described in this literature is accurate to the best of our knowledge. A variety of factors, however, can affect the performance of the Product(s) in a particular application, some of which are uniquely within your knowledge and control. INFORMATION IS SUPPLIED UPON THE CONDITION THAT THE PERSONS RECEIVING THE SAME WILL MAKE THEIR OWN DETERMINATION AS TO ITS SUITABILITY FOR THEIR USE. IN NO EVENT WILL 3M PURIFICATION BE RESPONSIBLE FOR DAMAGES OF ANY NATURE WHATSOEVER RESULTING FROM THE USE OF OR RELIANCE UPON INFORMATION.

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Issued July 2012