PALL Industrial Process

CCL Series Housings

Description

Pall CCL Series Housings accept Pall 1000 style filter elements in a 10, 20 or 30 inch length, or Pall 2½ ″ diameter UNI CAP style pleated filter elements. This series of housings is typically used for flow rates of 15, 20 and 25 GPM for the 10, 20 and 30 inch cartridges respectively. The housings are constructed of a 316 stainless steel investment casting head and a 316L stainless steel bowl. One or two polypropylene couplers, to join 10″ 1000 style filters together, are included for 20 and 30 inch housings, respectively. Inlet/outlet connections are 1″ NPT or 1″ flange. The head and bowl of the housing are fastened with a quick opening stainless steel Tee handle V-band clamp. Head to bowl sealing is by standard 242 O-ring.

Specifications

- Design Ratings:
  Pressure: 200 PSIG (1379 KPA)
  Temperature: Limitations due to O-ring material.
  Buna N: -20°F to + 250°F (-29°C to + 121°C)
  Viton A*: -20°F to + 400°F (-29°C to + 204°C)
  Ethylene Propylene: -20°F to + 300°F
  (-29°C to + 148°C)
- A bowl drain connection, as well as 2 pressure taps in the head are standard on all models.
- The housings may be mounted in any position except for oil mist removal from compressed gases, where it must be mounted vertically with the bowl down.

Element Sealing Mechanism

Pall 1000 style pleated filter elements are aligned within the housing by installing the elements onto a tie-rod. The elements are then secured in place by a stainless steel seal nut. When fully engaged, the tie-rod/seal nut assembly imbeds the edge seals into elastomeric gaskets at both ends of the element. UNI CAP pleated and 1000 series cartridges are provided with gaskets into which the knife edges seal at both ends.

Refer to Figure 1 for pressure drop information on the housing without cartridges installed. The housing pressure drop must be added to the filter cartridge pressure drop to determine the total differential pressure across the filter assembly.

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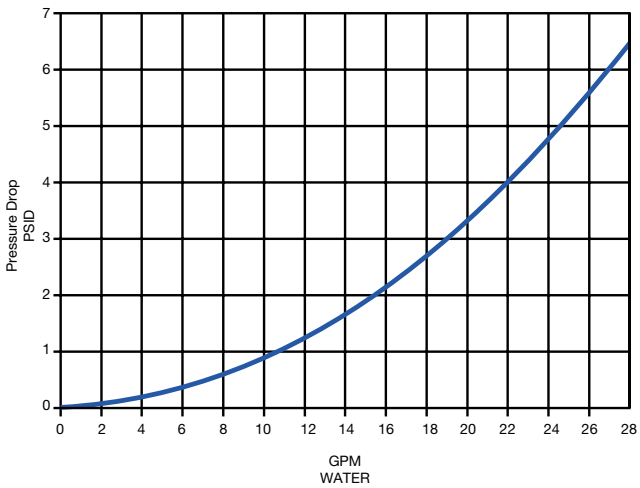
Standard CCL Series Housing

Figure 1. Aqueous Pressure Drop Curve Flow Characteristics



To calculate actual housing pressure drop, multiply the aqueous pressure drop by the fluid specific gravity.

Housing Part Number

CCL 100 △ G ■ ▽ ◆

Selection Guide – Dimensions

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Code	Cartridge Height Inches	Minimum Clearance For Element Removal (R) (in/mm*)	Housing Length (L) (in/mm)	Housing Weight lb/kg Dry	Wet
1	10	10/254	13⅛ /333.4	8/3.6	14/6.4
2	20	20/508	23¼ /590.6	10/4.5	19/8.6
3	30	30/762	33⅜ /847.7	14/6.4	28/12.7

** Based on flamewelded multilength elements. For coupled cartridges, use Code 1 only.*

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Code	Inlet and Outlet Ports
16	1″ NPT
7	1″, 150# ANSI R.F.S.O. Flange

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Code	Gasket Options
H13	Buna N (Standard)
H	Viton** A
H1	Fluoropolymer Encapsulated Viton**
H4	Silicone
J	Ethylene Propylene

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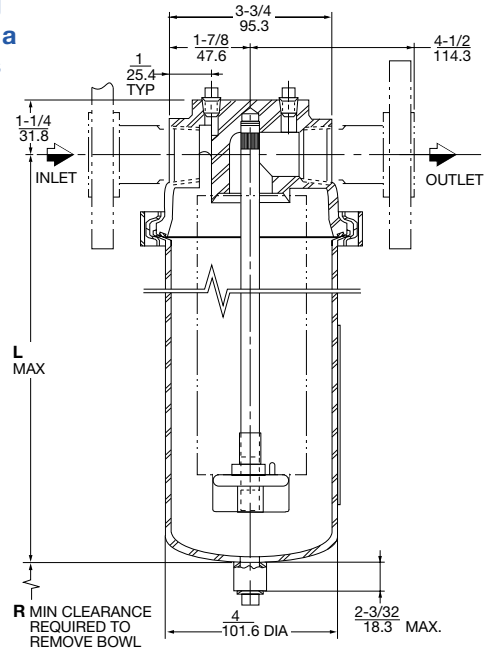
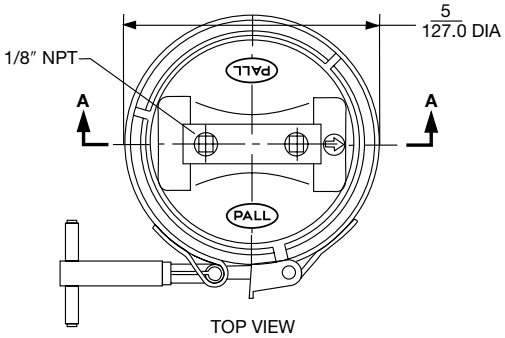
Code	Other Options If More Than One, Add Symbols In Alphabetical Sequence
O	Reverse Flow Coalescing Applications
C2	Pickled and Passivate Housing for Food, Drugs, D.I. Water or Other Critical Applications
C9	Cleaned For Oxygen Service

Engineering Drawing Dimensional View of a Standard CCL Series Housing





Notes:

1. *1″-150# ANSI RF flange available upon request.*
2. *See selection guide for **L** maximum and **R** minimum.*
3. *Dimensions shown are in/mm.*

PALL Industrial Process

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