

## HT Series Housings – 12"

### Description

Pall HT Series 12" diameter Housings accept ten individual elements up to 40" long. The housings are used for flow rates up to 800 GPM. The 12" diameter HT Series Housings are available in 304L stainless steel and carbon steel. The materials of construction and housing design permit the use of porous metal fibers over a broad temperature range from cryogenic -320°F to +800°F. Inlet/Outlet connections are 4" or 6" flanges.

### Specifications

- Housings are designed in accordance with ASME Section VIII, Division 1 and "U" stamped.
- Design Ratings:
  - Carbon Steel
    - Pressure: 150 PSIG (1034 KPA)
    - Temperature: -20°F to 550°F (-29°C to 288°C)
    - Pressure: 300 PSIG (2065 KPA)
    - Temperature: -20°F to 800°F (-29°C to 427°C)
  - Stainless Steel
    - Pressure: 150 PSIG (1034 KPA)
    - Temperature: -320°F to 450°F (-196°C to 232°C)
    - Pressure: 300 PSIG (2065 KPA)
    - Temperature: -320°F to 800°F (-196°C to 427°C)
- Carbon steel housings, and carbon steel legs on stainless steel housings, are painted with a high temperature coating. The inside of the carbon steel vessel is treated with a rust preventative.
- Carbon steel housings are designed with  $\frac{1}{16}$ " corrosion allowance.
- Vent connection is  $\frac{1}{2}$ " 3000 lb. NPT coupling.
- Drain connection is  $1\frac{1}{2}$ " 3000 lb. NPT coupling.
- Pressure ports are  $\frac{1}{4}$ " tapped.

### Element Sealing Mechanism

Elements are sealed in the housing using a  $1\frac{1}{2}$ " NPT connection. The seal results in a positive seal without the use of any temperature limiting gasket materials and also ensures no fluid bypass.

### Filter Element Selection

HT Series Housings may be used with the filter elements listed to the right (see Table 1), all of which are available in the threaded connector series. Pall threaded connector series elements have  $2\frac{1}{2}$ " outer diameter and are available in 10", 20", 30", or 40" lengths (Rigimesh® and PMM® elements) or in  $2\frac{3}{8}$ " outer diameter available in 19" or 38" lengths (PSS® and S Series PSS® elements) and 10", 20",



**Figure 1.** Standard HT Series 12" Diameter Housing  
Pipe Size: 4" or 6" Flange

30" and 40" lengths (FH Series PMF® elements). Please refer to the appropriate Filter Element Data Sheet for additional information about media and removal ratings.

**Table 1. Filter Element Selection**

Type of Filter Media	Description of Media	Data Sheet Number
PSS® Series	Sintered stainless steel powder metal filter element	E12
S Series PSS®	Sintered stainless steel powder metal seamless filter element	E20
Rigimesh® Series	Sintered woven wire mesh filter element	E13
PMM® Series	Sintered matrix of stainless steel powder within the pore structure of stainless steel woven wire mesh	E21
FH Series PMF®	Sintered stainless steel mesh fiber filter element	

## Housing Part Numbers/Ordering Information

HT □ ○ C12- △ - ▽ ◇ ☆

Code	Materials of Construction
□	
C	Carbon Steel
S	304L Stainless Steel

Code	Design Conditions
○	Hsg. Mat'l Design Pressure Design Temp.
1	C-STL 150 psi -20/550°F
3	300 psi -20/800°F
1	SST 150 psi -320/450°F
3	300 psi -320/800°F

Code	Housing Connections
▽	
65	4" Flanges
97	6" Flanges

Code	Dimensions				Total Weights (approx.)***		Element Length In.		
△	Hsg. Filter Area			L Max (in.)	Dry lb.	Wet lb.	PSS		Rigimesh
	PSS (Ft <sup>2</sup> )	Rigimesh (ft <sup>2</sup> )	Code F**				PSS	Rigimesh	
1	-	10	20	50	672	829	-	10	
2	9.8	20	40	60	713	911	19	20	
3	-	30	60	70	755	993	-	30	
4	19.6	40	80	80	796	1075	38	40	

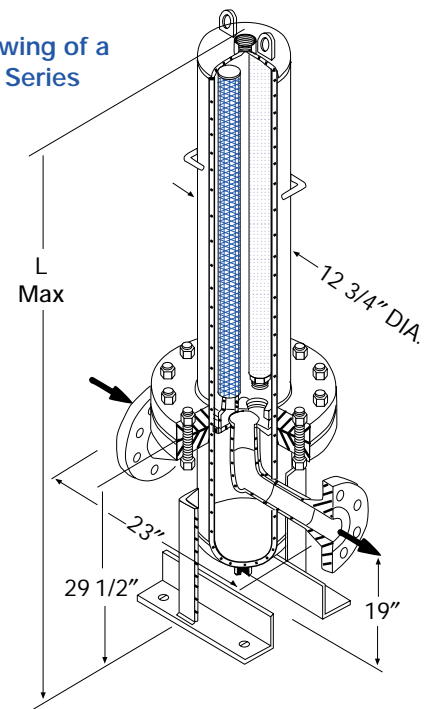
Code	Gasket Options
◇	
H20	Spiral Wound 304 SS/Flexible Graphite (Std.)
H19	Spiral Wound 304 SS/Teflon™

Teflon is a trademark of E. I. du Pont de Nemours and Company.

\*Code P: 1 ft<sup>2</sup>/10" length \*\* Code F: 2 ft<sup>2</sup>/10" length \*\*\* With 4" flange In/Out

Code	Other Options
☆	
C2	Passivated housings for demineralized water or other critical application
C9	Cleaned for oxygen service

Dimensional Drawing of a 12" Diameter HT Series Housing



2200 Northern Boulevard  
East Hills, New York 11548-1289

800.645.6532 toll free  
516.484.6164 fax

Visit us on the Web at [www.pall.com](http://www.pall.com)

Select-A-FAX\* 516.942.0523

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