Pall Corporation

IML Series Filter Housings

Features

- Multi-cartridge housing accepts 3-7 AB-style, Single Open End, Double Open End, RF, and 1001-style filters, depending upon model selected
- Accepts 10 in (254 mm), 20 in (508 mm), 30 in (762 mm), or 40 in (1016 mm) Pall Code 3, Code 7, Code 8, Code 18, 1001, DOE, or RF filter cartridges
- All wetted parts are 316 stainless steel
- Offset T connections for easy installation
- Quick-opening swing bolt closure facilitates filter change-out
- Wide choice of inlet/outlet sizes and O-ring seal materials
- Options for passivation and cleaning for oxygen service

Applications

- DI water
- Steam
- Compressed gases
- Prefilters to fermenter feed
- Chemical intermediates

Housing Specifications

Maximum allowable working pressure

195 psig (13.44 bar) @ 375 °F (190.6 °C)
210 psig (14.48 bar) @ 300 °F (148.9 °C)
230 psig (15.86 bar) @ 200 °F (93.3 °C)
260 psig (17.93 bar) @100 °F (37.8 °C)

Note: Above ratings apply to housing only. Cartridge and housing O-ring selection may impose different and narrower limitations.

Materials of construction

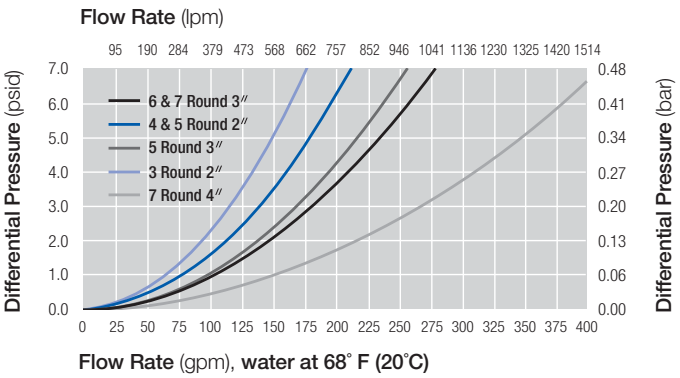
Head and Body:	316/316L Stainless Steel
Code:	ASME Code, Section VIII, Division I U stamp

Connections:

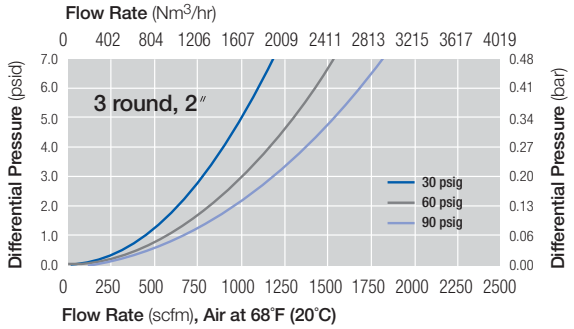
Inlet/outlet:	2-3 NPT, 2-4 150lb. ANSI raised face flange
Vent/drain:	1/2 NPT vent; 1 NPT drain
Gauge ports:	1/4 NPT
Shell o-rings:[1]	Fluorocarbon, FEP encapsulated fluorocarbon, silicone, nitrile, ethylene propylene, ethylene propylene for steam service

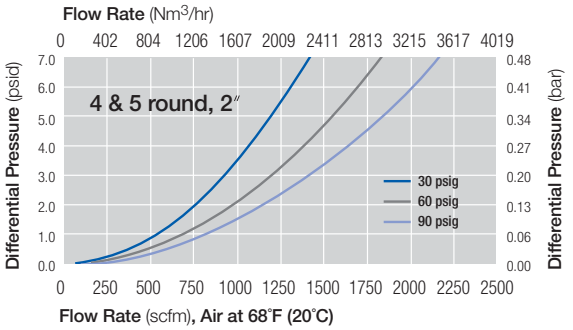
[1] *In compliance with FDA21CFR177.2600 regulations.*

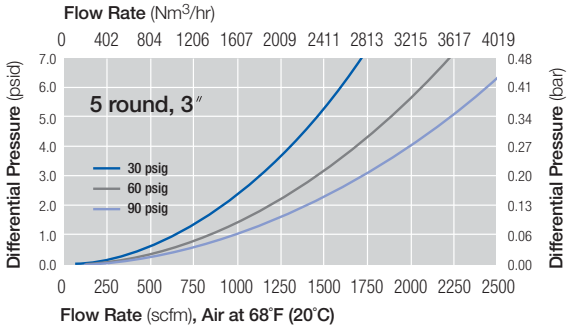
Housing Differential Pressure vs. Liquid Flow Rate

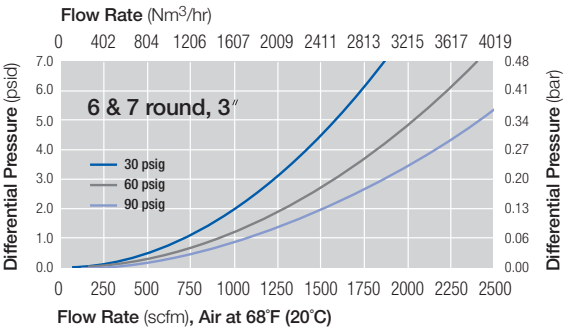


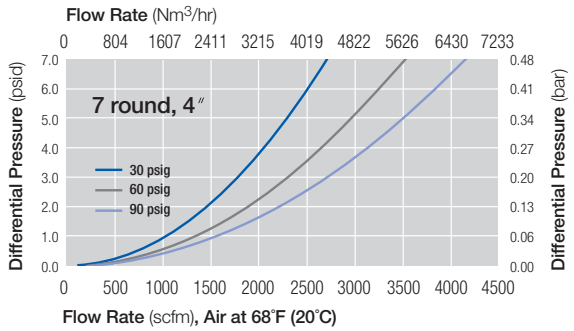
Housing Differential Pressure vs. Air Flow Rate









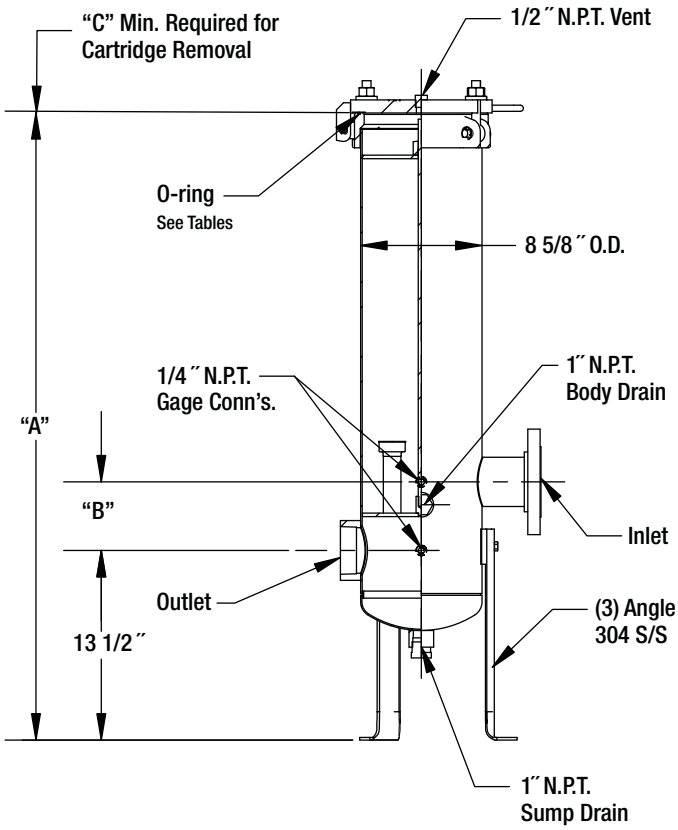


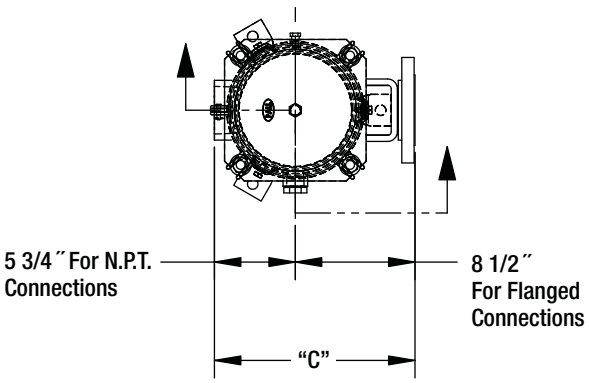
Dimensional Data

Model	Flow Rate[2] (gpm/lpm)	Dimensions A (in/mm) Max.	Volume (ft^3/m^3)	Weight (empty) (lbs/kg)	Weight Full (water) (lbs/kg)
IMLA131	10/37.9	37/939.8	0.7532/0.0213	137/62.14	184/83.46
IMLA132	20/76	47/1193.8	1.0577/0.03	146/66.22	212/96.16
IMLA133	30/114	58/1473.2	1.3622/0.0386	155/70.31	240/108.86
IMLA134	40/151	68/1727.2	1.6667/0.0472	166/75.30	270/122.47
IMLAD31	10/37.9	37/939.8	0.7532/0.0213	137/62.14	184/83.46
IMLAD32	20/76	47/1193.8	1.0577/0.03	146/66.22	212/96.16
IMLAD33	30/114	58/1473.2	1.3622/0.0386	155/70.31	240/108.86
IMLAD34	40/151	68/1727.2	1.6667/0.0472	166/75.30	270/122.47
IMLA731	10/37.9	37/939.8	0.7532/0.0213	137/62.14	184/83.46
IMLA732	20/76	47/1193.8	1.0577/0.03	146/66.22	212/96.16
IMLA733	30/114	58/1473.2	1.3622/0.0386	155/70.31	240/108.86
IMLA734	40/151	68/1727.2	1.6667/0.0472	166/75.30	270/122.47
IMLA831	10/37.9	37/939.8	0.7532/0.0213	137/62.14	184/83.46
IMLA832	20/76	47/1193.8	1.0577/0.03	146/66.22	212/96.16
IMLA833	30/114	58/1473.2	1.3622/0.0386	155/70.31	240/108.86
IMLA834	40/151	68/1727.2	1.6667/0.0472	166/75.30	270/122.47
IMLAT31	10/37.9	37/939.8	0.7532/0.0213	137/62.14	184/83.46
IMLAT32	20/76	47/1193.8	1.0577/0.03	146/66.22	212/96.16
IMLAT33	30/114	58/1473.2	1.3622/0.0386	155/70.31	240/108.86
IMLAT34	40/151	68/1727.2	1.6667/0.0472	166/75.30	270/122.47

[2] *Suggested rate of flow for water. Rate varies dependent upon cartridge inlet/outlet selection.*

Dimensional Drawings





"A" = 37˝ for 10 in element (approx.)
47˝ for 20 in element (approx.)
58˝ for 30 in element (approx.)
68˝ for 40 in element (approx.)

"B" = 3-7/8˝ for 2˝ N.P.T., 2˝ FLANGED CONNECTIONS
4-7/8˝ for 3˝ N.P.T., 3˝ & 4˝ FLANGED CONNECTIONS

"C" = 17˝ for Flanged Connections
11-1/2˝ for N.P.T. Connections

Part Numbers/Ordering Information

IM [1] [2] [3] [4] [5] GN [6] [7] [8]

(e.g., IMLA 833 GN 32C2H)

Table 1

Code	Material of construction
L	316/316L Stainless Steel

Table 2

Code	Design
A	ASME "U" Stamp

Table 3

Code	Filter element style	Max # around
1	1001	5
D	DOE / RF	7
7	Code 7	5
8	Code 3, 8, 18	5-AB Style, 2¾˝ O.D. 7-M Style, 2½˝ O.D.
T	Spring / Guide	7

Table 4

Code	# Around
3	3 Elements
4	4 Elements
5	5 Elements
6	6 Elements
7	7 Elements

Continued on next page.

Table 5

Code	Size	"A"	"C"	Weight	
				Empty (lbs/kg)	Full (water) (lbs/kg)
1	10″	37″	10″	137/62.14	184/83.46
2	20″	47″	20″	146/66.22	212/96.16
3	30″	58″	30″	155/70.31	240/108.86
4	40″	68″	40″	166/75.30	270/122.47

Table 6

Code	Inlet/outlet
32	2″ NPT
33	2″ Flange
48	3″ NPT
49	3″ Flange
65	4″ Flange

Table 7

Code	Housing options
None	None
C2	Passivated
C9	Cleaned for oxygen service[3]

[3] *Must use Code H or H1 O-Ring type.*

Table 8

Code	O-ring type
H	Fluorocarbon elastomer
H1	FEP encapsulated fluorocarbon elastomer
H4	Silicone
H13	Nitrile
J	Ethylene propylene
J7	Ethylene propylene for steam service

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