

## Self-Adjusting Sealing Device Ensures Positive Filter Cartridge Seal

- Provides positive sealing of non-compressible filters¹ such as pleated, carbon, metallic, and membrane cartridges
- Accepts 10.2 cm (4 in), 25.4 cm (10 in), 50.8 cm (20 in), or 76.2 cm (30 in) DOE filter cartridges<sup>2</sup>
- O-ring head and shell seal minimizes fluid leakage
- In-line inlet and outlet connections for easy installation
- Cast iron and 316 stainless steel or all 316 stainless steel materials of construction

### **Housing Specifications**

## Maximum operating pressure

12.1 bar (175 psig) @ 93°C (200°F)

Construction	Head <sup>3</sup>	Shell
LMOSS:	Cast iron⁴	316 stainless steel
LMOSS S:	Cast 316	316 stainless steel
	stainless steel	

#### Connections

Inlet/outlet: ½", ¾", or 1" NPT

Drain: LMOSS: Drain plug, 316 stainless steel,

1/4" NPT

LMOSS S: Drain plug, 316 stainless steel,

1/4" NPT

**Shell O-rings** Ethylene propylene (standard),

nitrile, FEP, fluorocarbon elastomer,

neoprene, silicone elastomer

Spring seal O-rings FEP (standard), ethylene propylene

Cover nut O-ring FEP

# LMO Spring Seal Series Filter Housings



#### **Bracket Option**

Stainless steel brackets are available as a standard option.

#### **T-Handle Option**

T-handle cover nuts are available in carbon steel or 316 stainless steel. Standard units are supplied with hex head cover nut.

#### Flange option

150 lb. ANSI raised face flanges are available on the 316 stainless steel units only.

¹ The LMO Spring Seal Series housing is not recommended for metallic cartridges. For metallic cartridges use the LMO Vari-Seal™ housing only.

When fitting with 10.2 cm (4 in) DOE filters, please order filters under Code 550 to assure proper fit.

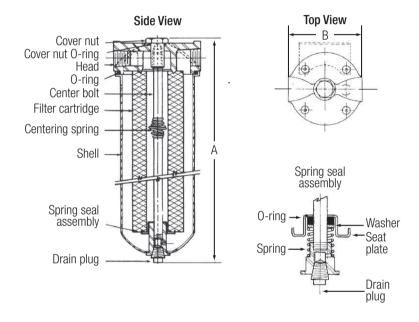
<sup>&</sup>lt;sup>3</sup> Housing head has mounting bosses which accept self-tapping screws.

<sup>4</sup> Painted exterior.

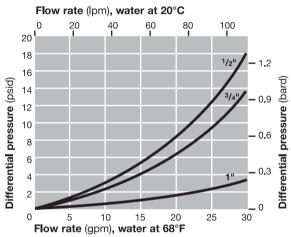
#### **Dimensional Data** (nominal)

Model	Con	necto	n Size	Flow Rate⁵	Dimensions	s cm (in)	Sealing Distance	Weight
	1/2"	3/4"	1"	lpm (gpm)	Α	В	cm (in)	kg (lb)
LMOSS10		Χ	Χ	to 37.9 (10)	34.3 (13.5)	12.1(4.75)	24.8 - 25.6 (9.75 - 10.06)	3.1 (6.75)
LMOSS20		X	X	to 75.7 (20)	59.7 (23.5)	12.1(4.75)	50.2 - 51.1 (19.75 - 20.13)	4.1 (9)
LMOSS10S	X	X	X	to 37.9 (10)	34.3 (13.5)	12.1(4.75)	24.8 - 25.6 (9.75 - 10.06)	3.1 (6.75)
LMOSS20S		X	X	to 75.7 (20)	59.7 (23.5)	12.1(4.75)	74.9 - 76.7 (19.5 - 20.125)	4.1 (9)
LMOSS30S		X	X	to 113.6 (30)	85.1 (33.5)	12.1(4.75)	49.5 - 51.1 (29.5 - 30.19)	5.1 (11.25)

Dependent upon cartridge selection, fluid viscosity and allowable pressure drop at various flow rates. Refer to cartridge nomograph to determine initial pressure drop of filter cartridge.



## Housing Differential Pressure vs. Liquid Flow Rate



Unit Conversion: 1 bar = 100 kPa

For liquids other than water, multiply differential pressure by specific gravity.

Options
T-handle
Universal
mounting bracket

1.9 cm
(3/4")
3.8 cm (1 15/16")

## **Ordering Information**

Pall Part Number = LMOSS 1 2 - 3 4

#### Table 1

Code	Cartridge lengths (cm/in)
42	10.2/4
10	25.4/10
20	50.8/20
30	76.2/30

#### Table 2

Code	Materials of construction
Blank	Cast iron and 316 stainless steel
S	316 stainless steel

#### Table 3

Code	Connection sizes
1/2	1/2"
3/4	3/4"
1	1"

#### Table 4

Code	Connection styles
Blank	NPT
F	Flange <sup>6</sup>

Flanges on the LMOSS S are welded to the cast head. Flanges are not available on the LMOSS models.





25 Harbor Park Drive
Port Washington, NY 11050
+1 516 484 3600 telephone
+1 800 289 7255 toll free US

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