

## Model 4-8 Indicating Bag Filters

Intelligent, mechanically actuated, Indicating Filters. Filters that tell the whole story.

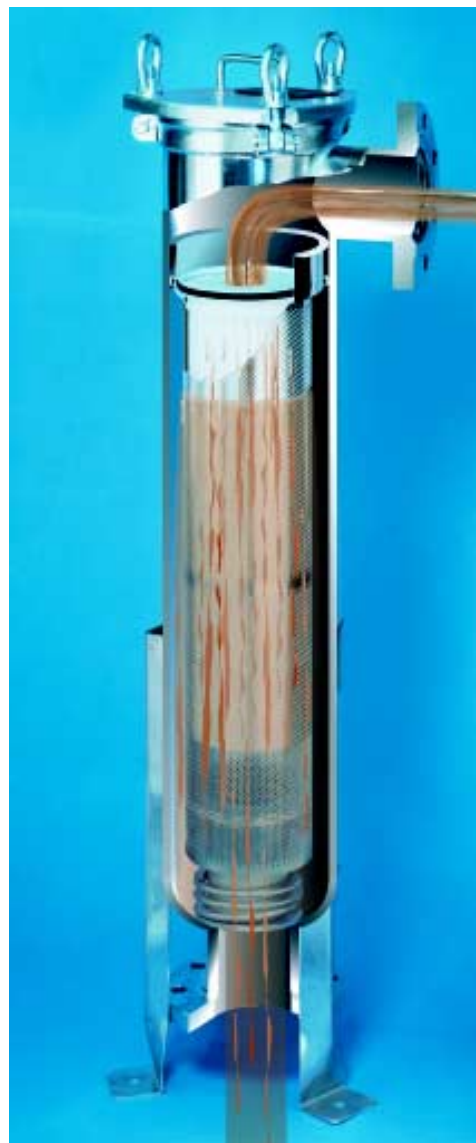
These filters will let you know when your filter bag needs attention. This allows you to maximize the efficiency of your operations and reduce system downtime by changing filters only when they really need it. You'll save time, money and effort, because you'll use each bag to its maximum capacity, since change-out will be based on the remaining life of the bag, not on someone's best guess.

### New Features

- Integral Differential Pressure Indicator (non-clogging)
- Electric Micro Switch included - 3-wire or 4-wire
- Electric Switch has dual actuation (one for **requires attention soon** and one for **requires immediate attention**)
- **Standard** is one set point, **optional** is 2 set points
- Optional explosion-proof Pneumatic Switch
- Optional Digital Model available

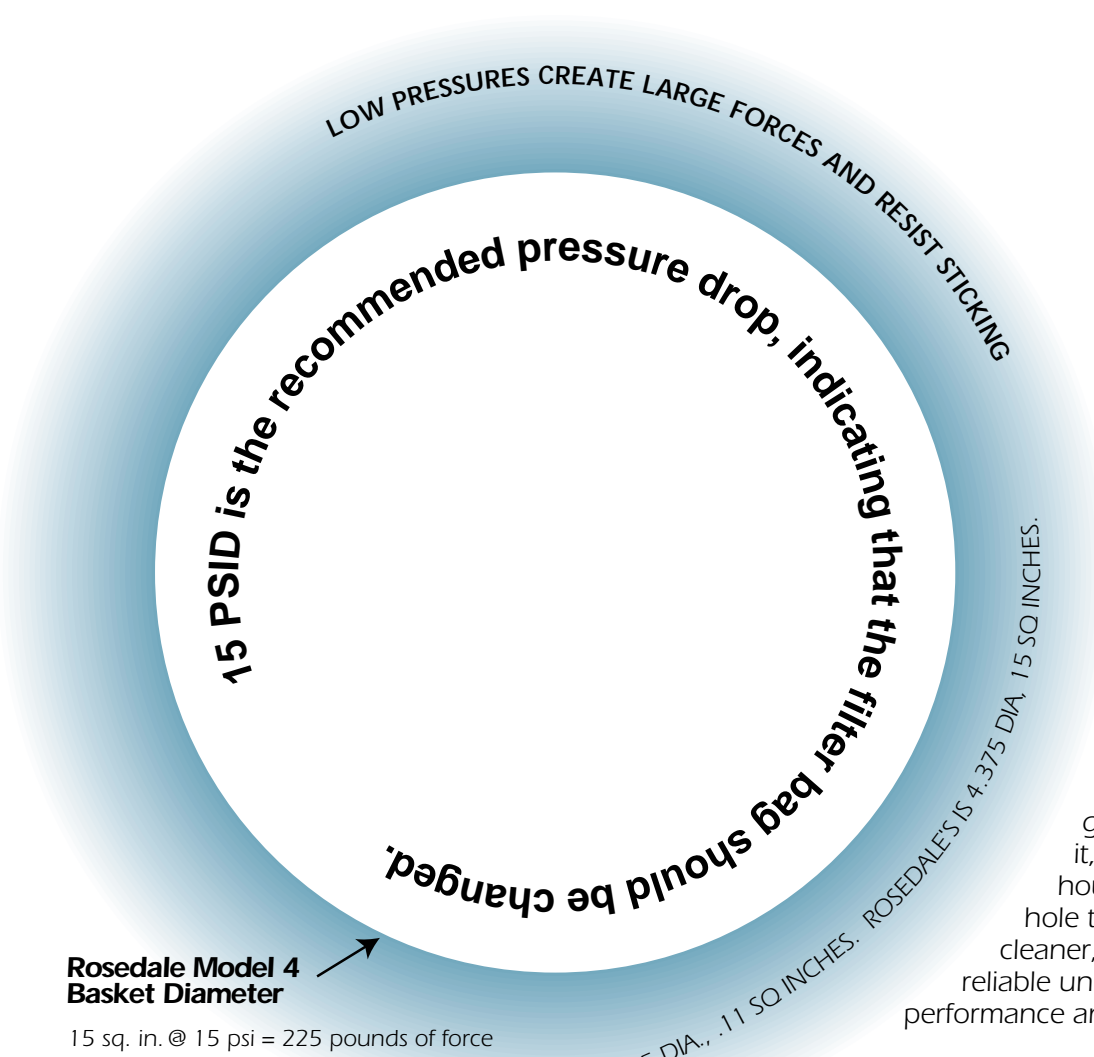
### Features

- Low pressure drops
- Permanently piped housings are opened without disturbing the piping or requiring tools
- Covers are O-ring sealed
- Carbon or stainless (304 or 316) steel housings
- Housings are electropolished to resist adhesion of dirt and scale
- Large-area, heavy-duty baskets
- O-ring seals: Buna N, EPR, Viton® Fluoroelastomer, and Teflon® fluorocarbon resin
- Two pressure ratings-150 and 300 psi
- Indicating device is mechanical, no tubes or orifices to clog







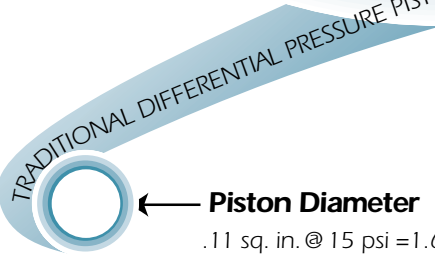


15 PSID is the recommended pressure drop, indicating that the filter bag should be changed.

LOW PRESSURES CREATE LARGE FORCES AND RESIST STICKING

**Rosedale Model 4 Basket Diameter**

15 sq. in. @ 15 psi = 225 pounds of force



TRADITIONAL DIFFERENTIAL PRESSURE PISTON IS .375 DIA., .11 SQ INCHES. ROSEDALE'S IS 4.375 DIA. 15 SQ INCHES.

**Piston Diameter**  
 .11 sq. in. @ 15 psi = 1.65 pounds of force

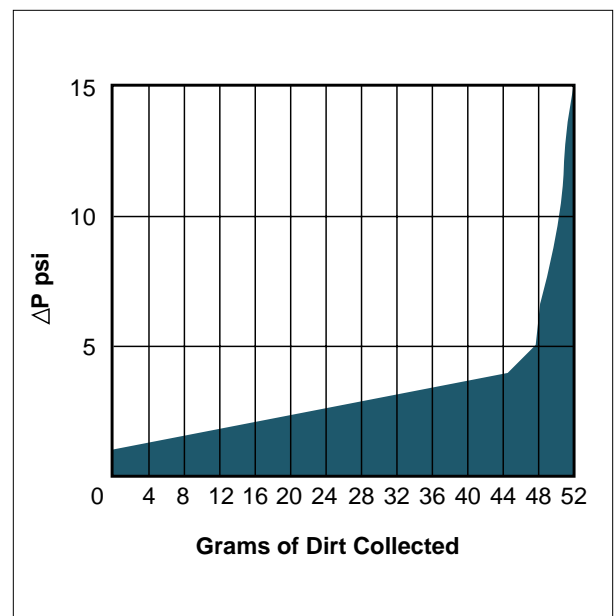
Most differential pressure indicators use a piston connected through a small hole in the side of the filter. This hole could clog, or the piston could easily be blocked or restricted. Rosedale's piston is much larger in diameter and surface area, requiring a greater blockage to restrict it, and since it is inside the housing, there is no outside hole to clog. It produces a cleaner, more accurate and reliable unit, providing excellent performance and value.

	Standard	Rosedale Model 4
<b>Piston Diameter</b>	<b>.38</b>	<b>4.38</b>
(F=P X A) Force Exerted @ 15 psi	1.65 lbs. of force	225.00 lbs. of force



### As Amount Of Trapped Dirt Increases, Pressure Drop Increases, And The Remaining Life Of The Filter Decreases

That's right, as the pressure drop across your filter increases, additional dirt-holding capacity decreases. As the chart illustrates, at a 5 psi drop in pressure, over 90 percent of the filter's dirt-holding capacity has been reached. When the pressure drop has increased to 10 psid, it has reached 95 percent of its total dirt-holding capacity. For each additional 5 psi pressure drop, the amount of extra dirt retained decreases dramatically. As a matter of fact, pressure drops greater than 15 psi retain no appreciable amount of additional dirt. Our line of indicating filters automatically and intelligently sense these pressure differences, and will indicate when the optimum time to change the filter element in your system, saving you time, money and effort.



## An Operation So Unique Patents Have Been Applied For!

The Indicating Filter is a mechanical device, without tubes or orifices that clog the indicator. Unfiltered liquid enters the housing above the bag, supported in a spring-loaded basket, and flows through. Solids are contained inside the bag, and as it becomes loaded, greater pressure is required to force liquid through the bag. Due to this increase in differential pressure, the spring-loaded basket is forced downward, actuating the cam that drives the indicator pointer, displaying the changes on a simple red/green scale. Red represents unacceptable pressure differential, indicating that element change-out is required. These units are pre-calibrated to indicate element change-out at 15 psi pressure differential.

A digital option is also available, providing an easy-to-read LCD visual display. It also offers a signal for electronic communication. No matter which display you choose, you can be assured that you'll change your filter bag, only when needed.

### Switch Ratings

125 VAC, 15 amp
250 VAC, 15 amp
480 VDC, 15 amp
600 VDC, 2 amp
125 VDC, 1/2 amp
250 VDC, 1/4 amp
125 VDC, 1/8 hp
250 VDC, 1/4 hp
24 or 48 VDC, 6 amp resistive
5 amp inductive



Also see the Communicator III on pages 179-180.

# How To Order

Build an ordering code as shown in the example.

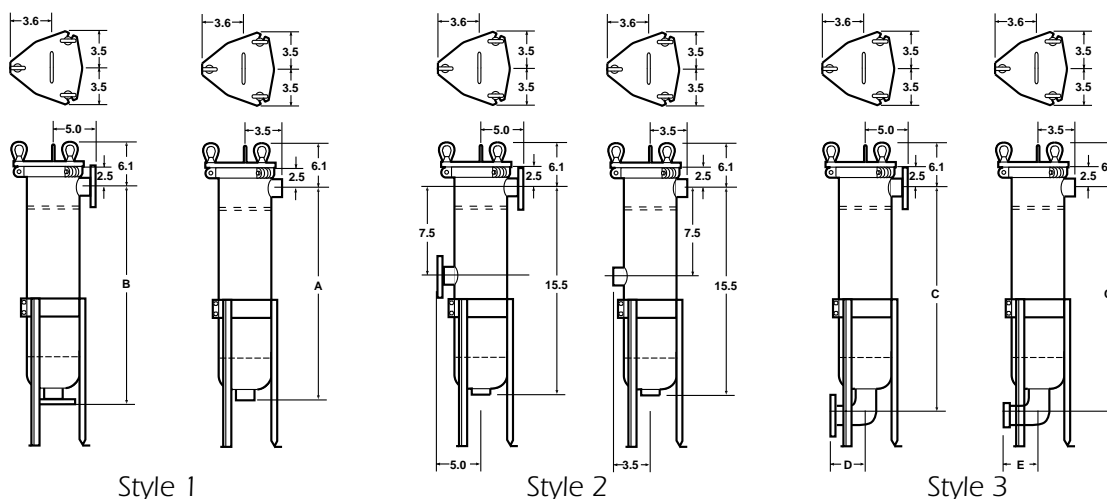
	<b>Housing</b>	<b>Options</b>
<b>Example:</b>	<b>IND - 4 12 - 1P - 1 - 300 - C - B - BM - 200</b>	
<b>MODEL NO.</b> IND-4 = 4		<b>BASKET MEDIA SIZE</b> No symbol if type B basket was selected Perforation diameters (for type P baskets) 1/4, 3/16, 9/64, 3/32, 1/16 <b>Mesh sizes</b> (for type M and BM baskets) 20, 30, 40, 50, 60, 70, 80, 100, 150, 200  <b>BASKET TYPE<sup>2</sup></b> <b>PB</b> = Filter bag basket, 9/64 perforations <b>P</b> = Strainer basket, perforated metal <b>BM</b> = Filter bag basket, perforated, mesh-lined <b>M</b> = Strainer basket, perforated, mesh-lined <b>HWM</b> = Filter bag basket, heavy wire mesh  <b>COVER SEAL</b> <b>B</b> = Buna N <b>E</b> = Ethylene Propylene <b>V</b> = Viton® Fluoroelastomer <b>TEV</b> = Teflon® Encapsulated Viton® <b>TSW</b> = Teflon® (solid white)
<b>HOUSING SIZE</b> 12 inch = 12		
<b>PIPE SIZE, NPT &amp; FLANGED</b> 3/4-inch, female NPT = 3/4P 1-inch, female NPT = 1P 3/4-inch, 150 class ANSI flange = 3/4F 1-inch, 150 class ANSI flange = 1F 1-1/4-inch 150 class ANSI flange = 1-1/4F 1-1/2-inch, 150 class ANSI flange = 1-1/2F 2-inch, 150 class ANSI flange = 2F		
<b>OUTLET STYLE</b> Bottom = 1 Side = 2 Bottom Elbow = 3		
<b>PRESSURE RATING<sup>1</sup></b> 150 psi (NPT or flanged) = 150 200 psi (NPT Only) = 200 300 psi (NPT or flanged) = 300		
<b>HOUSING MATERIAL</b> Carbon steel = C 304 Stainless steel = S		

1. Flanges provided with the housing match the pressure rating of the vessel. Housings rated 150 psi have 150 class flanges. Housings rated 300 psi have 300 class flanges. ANSI B16.5 Pressure Temperature rating tables determine flange class for ASME code housings. Consult factory.
2. Higher pressure ratings available. Consult factory.
3. Filter bags are specified separately. See page 120-130.

## Dimensions (IN)

Model	Pipe Size	A	B	C	D	E
4-12	3/4	15.5	17.4	15.8	4.0	2.0
	1	15.7	17.4	16.2	4.0	2.5
	1-1/4	15.7	18.0	16.6	4.0	2.9
	1-1/2	15.6	18.0	16.9	4.0	3.3
	2	15.6	18.0	17.6	5.0	4.0

## Dimensions (IN)



# R How To Order

Build an ordering code as shown in the example.

	Housing	Options
<b>Example:</b>	<b>IND - 8 30 - 2P - 1 - 150 - C</b>	<b>- B - BM - 200</b>
<b>MODEL NO.</b> IND-8 = <b>8</b>		
<b>HOUSING SIZE</b> 30 inch = <b>30</b>		
<b>PIPE SIZE, NPT &amp; FLANGED<sup>1</sup></b> 2-inch, female NPT = <b>2P</b> 3-inch, female NPT = <b>3P</b> 2-inch, 150 class ANSI flange = <b>2F</b> 3-inch, 150 class ANSI flange = <b>3F</b>		
<b>OUTLET STYLE</b> Bottom = <b>1</b> Side = <b>2</b> Bottom Elbow = <b>3</b>		
<b>PRESSURE RATING<sup>2</sup></b> 150 psi (NPT or flanged) = <b>150</b> 300 psi (NPT or flanged) = <b>300</b>		
<b>HOUSING MATERIAL</b> Carbon steel = <b>C</b> 304 Stainless steel = <b>S</b> 316 Stainless steel = <b>S316</b>		
		<b>BASKET MEDIA SIZE</b> No symbol if type B basket was selected Perforation diameters (for type P baskets) 1/4, 3/16, 9/64, 3/32, 1/16 <b>Mesh sizes</b> (for type M and BM baskets) 20, 30, 40, 50, 60, 70, 80, 100, 150, 200  <b>BASKET TYPE<sup>3</sup></b> <b>PB</b> = Filter bag basket, 9/64 perforations <b>P</b> = Strainer basket, perforated metal <b>BM</b> = Filter bag basket, perforated, mesh-lined <b>M</b> = Strainer basket, perforated, mesh-lined <b>HWM</b> = Filter bag basket, heavy wire mesh  <b>COVER SEAL</b> <b>B</b> = Buna N <b>E</b> = Ethylene Propylene <b>V</b> = Viton® Fluoroelastomer <b>TEV</b> = Teflon® Encapsulated Viton® <b>TSW</b> = Teflon® (solid white)

1. Flanges provided with the housing match the pressure rating of the vessel. Housings rated 150 psi have 150 class flanges. Housings rated 300 psi have 300 class flanges. ANSI B16.5 Pressure Temperature rating tables determine flange class for ASME code housings. Consult factory.

2. Higher pressure ratings available. Consult factory.

3. Filter bags are specified separately. See page 120-130.

### Dimensions (IN)

Model	Pipe Size	A	B	C	D	E	F	G
8-30	2	5.9	7.5	35.8	38.1	37.8	5.0	4.06
	3	6.7	7.5	36.3	38.4	39.2	7.25	6.12
	4	6.8	8.6	36.3	38.9	40.6	9.0	7.75

## Dimensions (IN)

