

# SINGLE BAG GENERAL PURPOSE BAG FILTER HOUSINGS

**MODEL 50  
GP SERIES  
CARBON STEEL &  
STAINLESS STEEL**

**SIZE 503 - 20 GPM  
SIZE 504 - 40 GPM**

- 3/4" through 2" pipe sizes
- NPT or flanged fittings
- Unique cover closure
- Light weight cover with handle
- Positively sealed, safe cover
- Maximum temp. - 250° F
- Maximum pressure - 300 psi
- ΔP ports optional
- Adjustable tripod legs optional
- Cleanable strainer basket option
- 5" diameter housings
- 6" or 12" basket lengths
- 3 outlet styles
- Stainless steel filter bag baskets
- Sanitary fitting available

## GENERAL INFORMATION

Economical GP series housings in carbon steel, 304 or 316 stainless steel for commercial, industrial and process applications.

Polypropylene speed bar knobs injection molded to grade 8 bolts, thread into stainless helicoils in the housing top collar to provide a unique cover closure. This closure mechanism is safer and much easier than band clamps.



The housings are manufactured with investment cast covers and collars. The cover is cast with a handle across the top in combination with a concave shape which acts as a liquid displacer.

## FILTER BAGS

Filter bag sizes are industry standard size #3 (4.31 Dia. x 8" L.) and size #4 (4.31 Dia. x 14" L.), and are offered in polyester, polypropylene, and nylon materials in micron ratings of 1 to 1000. Filter bags are ordered separately.

HOUSING SIZE	FILTER BAG SIZE	DIA. IN.	LGTH. IN.	AREA ft <sup>2</sup>	MAXIMUM FLOW GPM
503	3	4.31	8	0.5	20
504	4	4.31	14	1.0	40



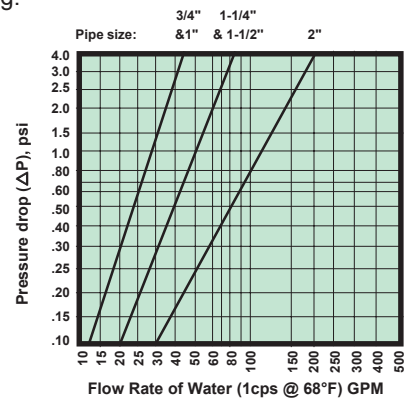
## STRAINER BASKET OPTION

All housings are available with perforated or mesh lined cleanable strainer baskets in place of filter bag baskets.

The baskets are supplied with a handle across the top for easy installation and removal.

## PRESSURE DROP DATA

The graph below gives the clean pressure drop through the Model 50 housing with a filter bag basket installed without a filter bag.

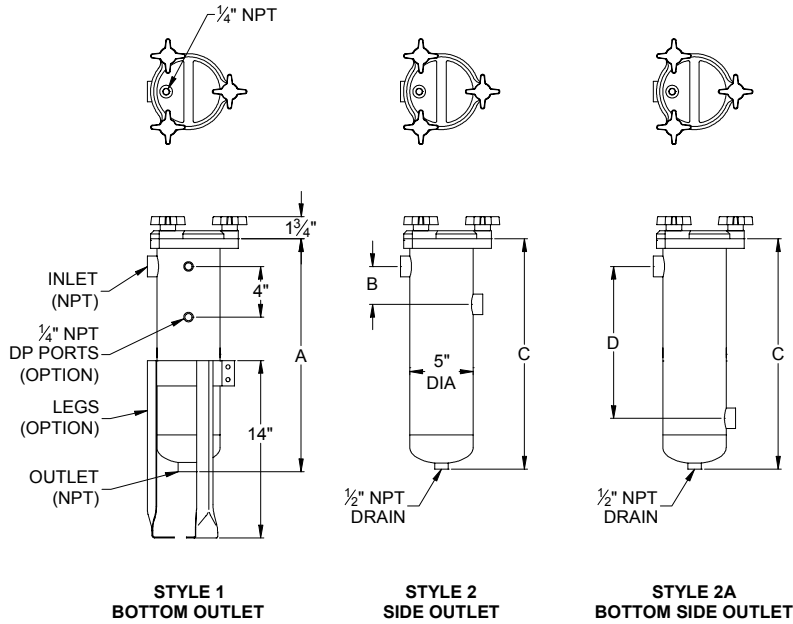


**Model 50**

To correct for viscosity's other than 1 cps, multiply the value obtained from the graph above by the proper correction factor from the chart below.

1 (H <sub>2</sub> O)	Viscosity, cps							
	50	100	200	400	600	800	1000	2000
1.0	1.3	1.5	1.7	1.9	2.1	2.3	2.5	2.8

## DIMENSIONS



MODEL 50	PIPE SIZE IN. NPT	A	B	C	D
<b>#3</b> SIZE	0.75	12.0	3.0	11.9	6.0
	1.00	12.4	3.0	12.2	6.0
	1.25	12.8	4.3	12.6	6.0
	1.50	13.2	4.3	12.8	6.0
	2.00	13.8	4.8	13.3	6.0

MODEL 50	PIPE SIZE IN. NPT	A	B	C	D
<b>#4</b> SIZE	0.75	18.0	3.0	17.9	12.0
	1.00	18.4	3.0	18.2	12.0
	1.25	18.8	4.3	18.6	12.0
	1.50	19.2	4.3	18.8	12.0
	2.00	19.8	4.8	19.3	12.0

1. NPT fittings shown - flanges available
2. Engineering drawings available

## HOW TO ORDER

<p><b>HOUSING MODEL NO.</b> MODEL 50 = H50</p> <hr/> <p><b>HOUSING SIZE</b> #3 SIZE (6" LONG BASKET) = 3 #4 SIZE (12" LONG BASKET) = 4</p> <hr/> <p><b>COVER STYLE</b> GENERAL PURPOSE = GP</p> <hr/> <p><b>PRESSURE RATING</b> 300 PSI (NPT MODELS) = 300 150 PSI (FLANGED MODELS) = 150</p> <hr/> <p><b>HOUSING MATERIAL</b> CARBON STEEL = CS 304 STAINLESS STEEL = 4S 316 STAINLESS STEEL = 6S</p> <hr/> <p><b>HOUSING OUTLET STYLE</b> BOTTOM OUTLET = 1 SIDE OUTLET = 2 BOTTOM SIDE OUTLET = 2A</p> <hr/> <p><b>COVER GASKET MATERIALS</b> BUNA N = B ETHYLENE PROPYLENE (EPR) = E VITON = V TEFLON = T</p>	<p style="text-align: center; font-weight: bold;">H50 4 GP 300 CS 1 B CL -1.0 P - B -DPP</p> <hr/> <p><b>OPTIONS</b> DPP = ΔP PORTS</p> <hr/> <p><b>BASKET TYPE &amp; SIZE</b> B = PERFORATED BAG - 9/64 DIA. P(*) = PERFORATED STRAINER P1/16, P3/32, P1/8, P9/64, P1/4 M(*) = MESH LINED STRAINER M20, M30, M40, M50, M60 M70, M100, M150, M200</p> <hr/> <p><b>FITTING TYPE</b> P = FEMALE NPT F = 150 PSI ANSI FLANGES</p> <hr/> <p><b>INLET &amp; OUTLET SIZE</b> 0.75 = 3/4" 1.0 = 1" 1.25 = 1-1/4" 1.5 = 1-1/2" 2.0 = 2"</p> <hr/> <p><b>TRIPOD LEG ASSEMBLY</b> CL = CARBON STEEL LEGS SL = STAINLESS STEEL LEGS NL = NO LEGS</p>
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