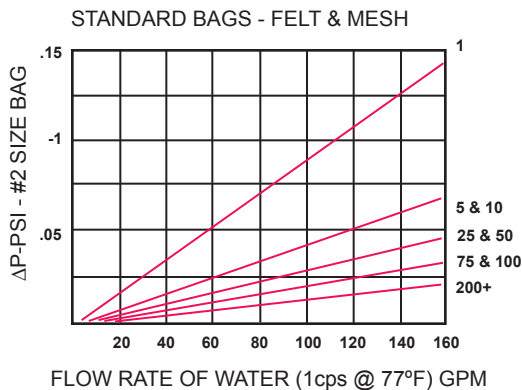
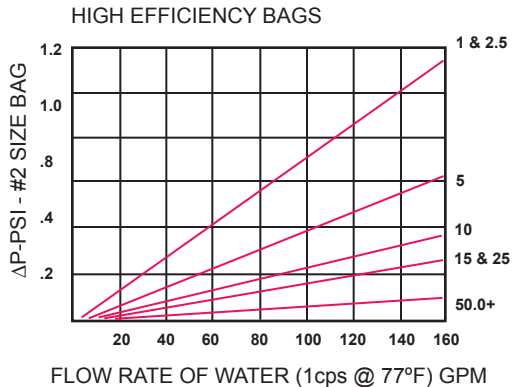


Filter Bag Pressure Drop ΔPB



The value obtained in step 3, ΔPB is the clean pressure drop caused by the filter bag.

SUMMARY

$$\text{System Pressure Drop} = \Delta PS = \Delta PH + \Delta PB$$

For new applications the ΔPS should be 2.0 psi or less. For high contaminant loading applications, this value should be as low as possible. The lower this value is, the more contaminant a bag will hold. For applications with nominal contaminants, this value can go to 3.0 psi or more. Consult factory for specific recommendations when the clean ΔPS exceeds 2.0 psi.

Step 1

The graphs show the ΔPB produced by a #2 size bag for water, 1 cps @ 77°F. The pressure drop is determined from the type of bag, the micron rating and flow rate.

Step 2

Correct for bag size from the table below if the size is different than #2 size.

Bag Size	Dia. X Length	Multiply By
2	7.06 x 32	1.00
9	5.5 x 32	1.50
1	7.06 x 16	2.25
8	5.5 x 21	2.25
7	5.5 x 15	3.00
4	4.15 x 14	4.50
3	4.15 x 8	9.00

Step 3

If the viscosity of the liquid is greater than 1 cps (water @ 77°F). Multiply the result from step 2 by the proper correction factor from the chart below

Viscosity (cps)	Correction Factor
50	4.5
100	8.3
200	16.6
400	27.7
800	50.00
1000	56.2
1500	77.2
2000	113.6
4000	161.0
6000	250.0
8000	325.0
10000	430.0