

8553 Oil Strainers effectively prevent dirt, scale, and other particles from clogging downstream orifices.

8553 Specifications

Maximum temperature: 400 F
 Maximum pressure: 200 psi
 Body: cast iron

Basket:

standard: 316 SST
 special (8553M): monel

standard perforations: 1/32" (approx. 20 mesh)
 also available in mesh lined baskets:
 40 mesh--0.0165"/420 microns
 100 mesh--0.0059"/149 microns



Selection

1. Determine maximum allowable pressure drop across strainer for required gph.
2. Multiply it by viscosity/mesh correction factor from Table 2 (on back side).
3. Divide by fluid specific gravity.
4. From Figure 1, select strainer with gph capacity greater than required flow at pressure drop calculated above.

Example:

Requirement: 1800 gph of 0.934 sp gr, 2000 SSU oil
 maximum pressure drop: 2 psi
 mesh requirement: 100

$2 \text{ psi} \times 0.31$ (from Table 2) = 0.62 psi $0.62 \text{ psi} \div 0.934 = 0.66 \text{ psi}$
 Intersection of 0.66 psi and 1800 gph lines indicates 8553-3 is proper choice.

Figure 1. Pressure drop curves--1/32" perforations

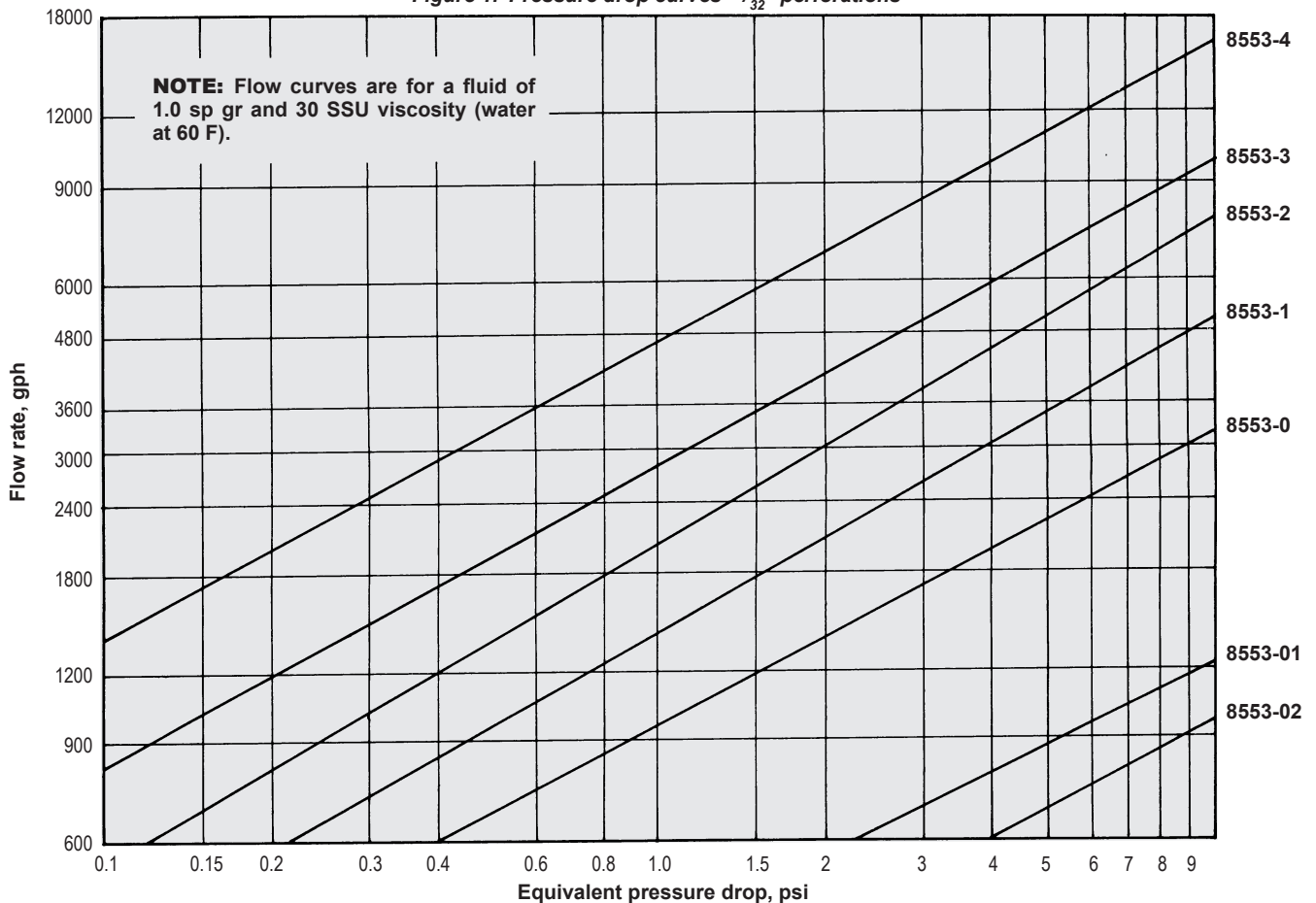


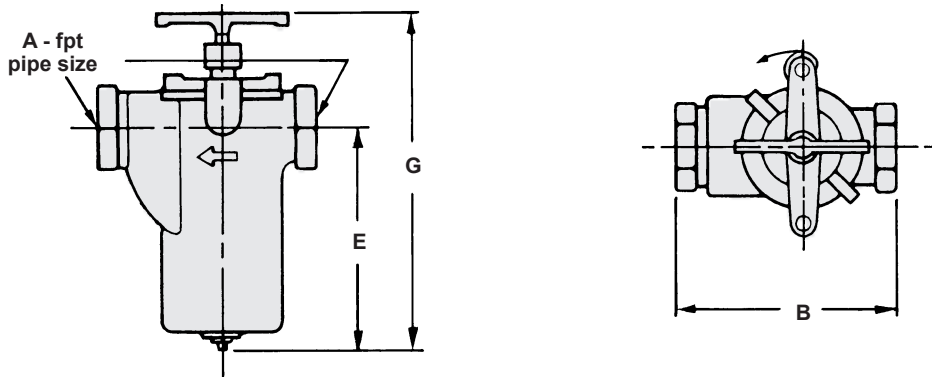
Table 2. Viscosity / mesh correction factors.

Viscosity (SSU)	Unlined perforated basket	40 Mesh lined basket	100 Mesh lined basket
30 (water)	1.0	0.83	0.58
100	0.81	0.68	0.5
200	0.74	0.62	0.45
300	0.69	0.58	0.42
500	0.63	0.53	0.38
1 000	0.59	0.45	0.35
2 000	0.53	0.42	0.31
3 000	0.50	0.38	0.28
5 000	0.45	0.33	0.22
10 000	0.40	0.28	0.16

To order, specify: 8553 (or 8553M)-(code for pipe size) Strainer. For optional mesh lining specify mesh size in 3rd term.

- Examples:** 8553-2 (1¹/₄" Strainer
 8553M-01 (1¹/₂" Monel Strainer
 8553-1-100 (1" Strainer with 100 mesh lined basket

DIMENSIONS
inches



Strainer designation	A	B	E	G	Wt, lb	"O" ring cover seals
8553-02	3 ³ / ₈	4	4 ⁵ / ₈	7	4	R260-7136
8553-01	1 ¹ / ₂	4	4 ⁵ / ₈	7	4	
8553-0	3 ³ / ₄	5 ³ / ₈	5 ¹ / ₂	8 ¹³ / ₁₆	7	R260-7166
8553-1	1	5 ³ / ₈	5 ¹ / ₂	8 ¹³ / ₁₆	7	
8553-2	1 ¹ / ₄	6 ¹¹ / ₁₆	6 ³ / ₈	10 ¹ / ₄	12	R260-7196
8553-3	1 ¹ / ₂	7 ¹ / ₄	7 ¹ / ₂	11 ³ / ₈	15	
8553-4	2	8 ³ / ₄	8 ¹ / ₂	13 ¹¹ / ₁₆	28	R260-7178

DIMENSIONS SHOWN ARE SUBJECT TO CHANGE. PLEASE OBTAIN CERTIFIED PRINTS FROM FIVES NORTH AMERICAN COMBUSTION, INC. IF SPACE LIMITATIONS OR OTHER CONSIDERATIONS MAKE EXACT DIMENSION(S) CRITICAL.

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American urges compliance with National Safety Standards and insurance Underwriters recommendations, and care in operation.

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