

Tank diameter range (D in feet)	Typical number of columns, (N <sub>C</sub> )
85 < D ≤ 100	6
100 < D ≤ 120	7
120 < D ≤ 135	8
135 < D ≤ 150	9
150 < D ≤ 170	16
170 < D ≤ 190	19
190 < D ≤ 220	22
220 < D ≤ 235	31
235 < D ≤ 270	37
270 < D ≤ 275	43
275 < D ≤ 290	49
290 < D ≤ 330	61
330 < D ≤ 360	71
360 < D ≤ 400	81

<sup>a</sup>Data in this table should not supersede information on actual tanks.

TABLE 25 TO SUBPART G OF PART 63—EFFECTIVE COLUMN DIAMETER (F<sub>c</sub>)

Column type	F <sub>c</sub> (feet)
9-inch by 7-inch built-up columns	1.1
8-inch-diameter pipe columns	0.7
No construction details known	1.0

TABLE 26 TO SUBPART G OF PART 63—SEAL RELATED FACTORS FOR INTERNAL FLOATING ROOF VESSELS

Seal type	K <sub>S</sub>	n
Liquid mounted resilient seal:		
Primary seal only	3.0	0
With rim-mounted secondary seal <sup>a</sup>	1.6	0
Vapor mounted resilient seal:		
Primary seal only	6.7	0
With rim-mounted secondary seal <sup>a</sup>	2.5	0

<sup>a</sup>If vessel-specific information is not available about the secondary seal, assume only a primary seal is present.

TABLE 27 TO SUBPART G OF PART 63—SUMMARY OF INTERNAL FLOATING DECK FITTING LOSS FACTORS (K<sub>F</sub>) AND TYPICAL NUMBER OF FITTINGS (N<sub>F</sub>)

Deck fitting type	Deck fitting loss factor (K <sub>F</sub> ) <sup>a</sup>	Typical number of fittings (N <sub>F</sub> )
Access hatch		1.
Bolted cover, gasketed	1.6	
Unbolted cover, gasketed	11	
Unbolted cover, ungasketed	<sup>b</sup> 25	
Automatic gauge float well		1.
Bolted cover, gasketed	5.1	
Unbolted cover, gasketed	15	
Unbolted cover, ungasketed	<sup>b</sup> 28	
Column well		(see Table 24).
Builtup column-sliding cover, gasketed	33	
Builtup column-sliding cover, ungasketed	<sup>b</sup> 47	
Pipe column-flexible fabric sleeve seal	19	
Pipe column-sliding cover, gasketed	32	
Pipe column-sliding cover, ungasketed		
Ladder well		1.
Sliding cover, gasketed	56	
Sliding cover, ungasketed	<sup>b</sup> 76	
Roof leg or hanger well		(5+D/10+D <sup>2</sup> /600) <sup>c</sup> .
Adjustable	<sup>b</sup> 7.9	
Fixed	0	
Sample pipe or well		1.
Slotted pipe-sliding cover, gasketed	44	
Slotted pipe-sliding cover, ungasketed	57	
Sample well-slit fabric seal, 10 percent open area	<sup>b</sup> 12	
Stub drain, 1-in diameter <sup>d</sup>	1.2	(D <sup>2</sup> /125) <sup>c</sup> .
Vacuum breaker		1.