



Steel Schedule and Concrete Quantities for Riser Base

Riser Diameter (inches)	Bar Size	Mark	Type	Number Required	Length (feet-inches)	Total Length (feet-inches)	Total Weight (pounds)	Clear Distance, C (inches)	Overall Length, L (feet-inches)	Concrete (cubic yards)
15	4	1	Straight (Str.)	6	2-9	16-6	11	7 1/2	3-3	0.4
18	4	1	Str.	8	3-0	24-0	16	3	3-6	0.5
21	4	1	Str.	8	3-3	26-0	17	4 1/2	3-9	0.6
24	4	1	Str.	8	3-6	28-0	19	6	4-0	0.6
30	4	1	Str.	10	4-0	40-0	27	3	4-6	0.8
36	4	1	Str.	10	4-6	45-0	30	6	5-0	1.0
42	4	1	Str.	12	5-0	60-0	40	3	5-6	1.2
48	4	1	Str.	12	5-6	66-0	44	6	6-0	1.4
54	4	1	Str.	14	6-0	84-0	56	3	6-6	1.6
60	4	1	Str.	14	6-6	91-0	61	6	7-0	1.9

Notes:

1. Transfer dimensions and quantities to the drawing sheet.
2. Specify coating or joint sealing requirements on drawing if applicable.
3. Complete embankment cross section upstream of riser on the drawing sheet.
4. When drawdown pipe is required, use a minimum 30-inch diameter riser to facilitate installation of the valve. Draft the drawdown to conform to American National Standards Institute (ANSI) B16.5, 150 pounds per square inch (psi) pipe details, valve, and the flange details on the drawing. Place the following notes in the construction details of the specifications:
 - The diameter and drilling of the valve and flange shall conform to ANSI B16.5, 150 psi.
 - Fasten the valve to the flange with galvanized or cadmium-plated bolts.
 - A full-faced rubber gasket shall be used between the valve and flange.