

RIS Offset Table 10 to 16 inches

LENGTH BETWEEN ELBOWS	2 X 15°		2 X 30°		2 X 45°	
	RISE	OFFSET	RISE	OFFSET	RISE	OFFSET
10 INCH Ø						
NO LENGTH	11 7/8	1 5/8	14 1/8	3 3/4	15 7/8	6 5/8
12" Length	22 1/4	4 3/8	23 3/8	9 1/8	23 1/2	14 1/8
24" Length	33 7/8	7 1/2	33 3/4	15 1/8	32	22 5/8
48" Length	57	13 5/8	54 5/8	27 1/8	48 7/8	39 5/8
48" + 12"	67 3/8	16 1/2	63 7/8	32 1/2	56 1/2	47 1/4
48" + 24"	79	19 1/2	74 1/4	38 1/2	65	55 3/4
48"+24"+12"	89 3/8	22 3/8	83 5/8	43 7/8	72 5/8	63 3/8
48" + 48"	102 1/4	25 3/4	95	50 1/2	82	72 3/4
12 INCH Ø						
NO LENGTH	11 7/8	1 5/8	15	4	17 1/8	7 1/8
12" Length	22 1/4	4 3/8	24 3/8	9 3/8	24 3/4	14 3/4
24" Length	33 7/8	7 1/2	34 3/4	15 3/8	33 1/4	23 1/4
48" Length	57	13 5/8	55 1/2	27 3/8	50 1/4	40 1/8
48" + 12"	67 3/8	16 1/2	64 7/8	32 3/4	57 7/8	47 3/4
48" + 24"	79	19 1/2	75 1/4	38 3/4	66 1/4	56 1/4
48"+24"+12"	89 3/8	22 3/8	84 1/2	44 1/8	73 7/8	63 7/8
48" + 48"	102 1/4	25 3/4	96	50 3/4	83 1/4	73 1/4
14 INCH Ø						
NO LENGTH	12 7/8	1 3/4	16	4 1/4	18 7/8	7 3/4
12" Length	23 1/4	4 1/2	25 1/4	9 5/8	26 1/2	15 3/8
24" Length	34 7/8	7 5/8	35 5/8	15 5/8	35	23 7/8
48" Length	58	13 3/4	56 1/2	27 5/8	51 7/8	40 7/8
48" + 12"	68 3/8	16 5/8	65 3/4	33	59 1/2	48 1/2
48" + 24"	80	19 5/8	76 1/8	39	68	57
48"+24"+12"	90 3/8	22 1/2	85 1/2	44 3/8	75 5/8	64 1/2
48" + 48"	103 1/8	25 7/8	96 5/8	51	85	73 7/8
16 INCH Ø						
NO LENGTH	12 7/8	1 3/4	16 7/8	4 1/2	20 1/8	8 3/8
12" Length	23 1/4	4 1/2	26 1/4	9 7/8	27 3/4	16
24" Length	34 7/8	7 5/8	36 5/8	15 7/8	36 1/4	24 3/8
48" Length	58	13 3/4	57 3/8	27 7/8	53 1/4	41 3/8
48" + 12"	68 3/8	16 5/8	66 5/8	33 1/4	60 3/4	49
48" + 24"	80	19 5/8	77 1/8	39 1/4	69 1/4	57 1/2
48"+24"+12"	90 3/8	22 1/2	86 3/8	44 5/8	76 7/8	65 1/8
48" + 48"	103 1/8	25 7/8	97 7/8	51 1/4	86 1/4	74 1/2

RIS Offset Table 18 to 24 inches

LENGTH BETWEEN ELBOWS	2 X 15°		2 X 30°		2 X 45°	
	RISE	OFFSET	RISE	OFFSET	RISE	OFFSET
18 INCH Ø						
NO LENGTH	13 7/8	1 7/8	17 7/8	4 3/4	21 3/8	8 7/8
12" Length	24 1/4	4 5/8	27 1/8	10 1/8	29	16 1/2
24" Length	35 7/8	7 3/4	37 1/2	16 1/8	37 1/2	25
48" Length	59	13 7/8	58 1/4	28 1/8	54 1/8	41 7/8
48" + 12"	69 3/8	16 3/4	67 5/8	33 1/2	62 1/8	49 1/2
48" + 24"	81	19 3/4	78	39 1/2	70 5/8	58
48"+24"+12"	91 3/8	22 5/8	87 3/8	44 7/8	78 1/8	65 5/8
48" + 48"	104 1/8	26	98 3/4	51 1/2	87 1/2	75
20 INCH Ø						
NO LENGTH	13 7/8	1 7/8	19 1/4	5 1/8	23 1/8	9 5/8
12" Length	24 1/4	4 5/8	28 1/2	10 1/2	30 3/4	17 1/8
24" Length	35 7/8	7 3/4	38 7/8	16 1/2	39 1/8	25 5/8
48" Length	59	13 7/8	59 3/4	28 1/2	56 1/4	42 5/8
48" + 12"	69 3/8	16 3/4	69	33 7/8	63 3/4	50 1/4
48" + 24"	81	19 3/4	79 3/8	39 7/8	72 1/4	58 3/4
48"+24"+12"	91 3/8	22 5/8	88 3/4	45 1/4	79 7/8	66 3/8
48" + 48"	104 1/8	26	100 1/8	51 7/8	89 1/4	75 3/4
22 INCH Ø						
NO LENGTH	14 7/8	2	20 1/8	5 3/8	24	9 7/8
12" Length	25 1/4	4 3/4	29 1/2	10 3/4	31 5/8	17 1/2
24" Length	36 7/8	7 7/8	39 7/8	16 3/4	40 1/8	26
48" Length	60	14	60 5/8	28 3/4	57	43
48" + 12"	70 3/8	16 7/8	70	34 1/8	64 5/8	50 5/8
48" + 24"	82	20	80 3/8	40 1/8	73 1/8	59 1/8
48"+24"+12"	92 3/8	22 3/4	89 5/8	45 1/2	80 3/4	66 5/8
48" + 48"	105 1/8	26 1/8	101 1/8	52 1/8	90 1/8	76
24 INCH Ø						
NO LENGTH	14 7/8	2	21 1/8	5 5/8	25 3/4	10 5/8
12" Length	25 1/4	4 3/4	30 3/8	11	33 1/4	18 1/4
24" Length	36 7/8	7 7/8	40 3/4	17	41 3/4	26 3/4
48" Length	60	14	61 5/8	29	58 3/4	43 3/4
48" + 12"	70 3/8	16 7/8	70 7/8	34 3/8	66 3/8	51 1/4
48" + 24"	82	20	81 1/4	40 3/8	74 7/8	59 3/4
48"+24"+12"	92 3/8	22 3/4	90 5/8	45 3/4	82 1/2	67 3/8
48" + 48"	105 1/8	26 1/8	102	52 3/8	91 3/4	76 3/4