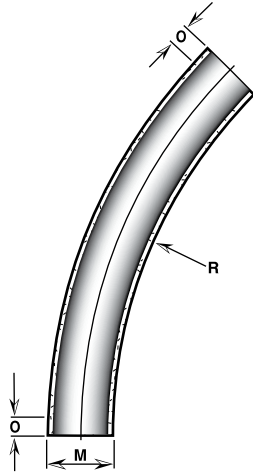


ELBOWS

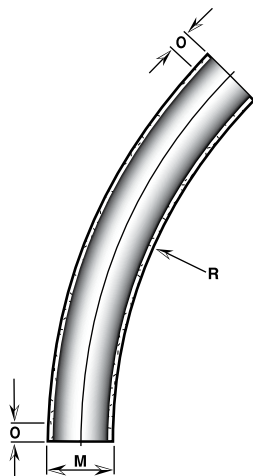


45° X 36"

Nominal Size	Type	IPS Item No.		M	O-Tangent (min)	R - Radius (min)	Weight	
		Belowground	Aboveground				lbs	kg
¾	SW	07A-SW-82-P	07C-SW-82-P	1.05 (27)	6 (152)	36 (914)	0.57 (0.26)	
1	SW	10A-SW-82-P	10C-SW-82-P	1.32 (33)	6 (152)	36 (914)	0.63 (0.29)	
1¼	SW	12A-SW-82-P	12C-SW-82-P	1.66 (42)	6 (152)	36 (914)	0.77 (0.35)	
1½	SW	15A-SW-82-P	15C-SW-82-P	1.90 (48)	6 (152)	36 (914)	1.10 (0.50)	
2	SW	20A-SW-82-P	20C-SW-82-P	2.37 (60)	6 (152)	36 (914)	1.27 (0.58)	
2½	SW	25A-SW-82-P	25C-SW-82-P	2.88 (73)	6 (152)	36 (914)	1.53 (0.7)	
3	SW	30A-SW-82-P	30C-SW-82-P	3.50 (89)	6 (152)	36 (914)	2.00 (0.91)	
4	SW	40A-SW-82-P	40C-SW-82-P	4.46 (113)	6 (152)	36 (914)	2.40 (1.09)	
4	HW	40A-HW-82-P	40C-HW-82-P	4.50 (114)	6 (152)	36 (914)	3.23 (1.47)	
5	SW	50A-SW-82-P	50C-SW-82-P	5.52 (140)	6 (152)	36 (914)	3.00 (1.36)	
5	MW	50A-MW-82-P	50C-MW-82-P	5.57 (141)	6 (152)	36 (914)	4.00 (1.81)	
5	HW	50A-HW-82-P	50C-HW-82-P	5.60 (152)	6 (152)	36 (914)	4.39 (2.00)	
6	SW	60A-SW-82-P	60C-SW-82-P	6.58 (167)	6 (152)	36 (914)	3.33 (1.51)	
6	MW	60A-MW-82-P	60C-MW-82-P	6.63 (168)	6 (152)	36 (914)	4.73 (2.15)	
6	HW	60A-HW-82-P	60C-HW-82-P	6.66 (169)	6 (152)	36 (914)	5.43 (2.46)	

Nominal Size	Type	ID Item No.		M	O-Tangent (min)	R - Radius (min)	Weight	
		Belowground	Aboveground				lbs	kg
2	SW	20B-SW-82-P	20D-SW-82-P	2.14 (54)	6 (152)	36 (914)	1.13 (0.51)	
2½	SW	25B-SW-82-P	25D-SW-82-P	2.64 (67)	6 (152)	36 (914)	1.40 (0.64)	
3	SW	30B-SW-82-P	30D-SW-82-P	3.14 (80)	6 (152)	36 (914)	1.60 (0.73)	
3½	SW	35B-SW-82-P	35D-SW-82-P	3.64 (92)	6 (152)	36 (914)	2.00 (0.91)	
4	SW	40B-SW-82-P	40D-SW-82-P	4.14 (105)	6 (152)	36 (914)	2.30 (1.04)	
4	HW	40B-HW-82-P	40D-HW-82-P	4.19 (106)	6 (152)	36 (914)	3.07 (1.39)	
4½	SW	45B-SW-82-P	45D-SW-82-P	4.64 (117)	6 (152)	36 (914)	3.65 (1.66)	
4½	HW	45B-HW-82-P	45D-HW-82-P	4.69 (118)	6 (152)	36 (914)	4.00 (1.82)	
5	SW	50B-SW-82-P	50D-SW-82-P	5.14 (131)	6 (152)	36 (914)	2.83 (1.28)	
5	MW	50B-MW-82-P	50D-MW-82-P	5.19 (132)	6 (152)	36 (914)	3.76 (1.71)	
5	HW	50B-HW-82-P	50D-HW-82-P	5.22 (132)	6 (152)	36 (914)	4.33 (1.96)	
6	SW	60B-SW-82-P	60D-SW-82-P	6.14 (156)	6 (152)	36 (914)	3.40 (1.54)	
6	MW	60B-MW-82-P	60D-MW-82-P	6.19 (157)	6 (152)	36 (914)	4.50 (2.04)	
6	HW	60B-HW-82-P	60D-HW-82-P	6.22 (158)	6 (152)	36 (914)	5.26 (2.39)	

Nominal Size	Type	Item No.		M	O-Tangent (min)	R - Radius (min)	Weight	
		Belowground	Aboveground				lbs	kg
2	XW	20B-XW-82-P	20D-XW-82-P	2.50 (65)	6 (152)	36 (914)	4.20 (1.91)	
2½	XW	25B-XW-82-P	25D-XW-82-P	3.00 (76)	6 (152)	36 (914)	5.13 (2.33)	
3	XW	30B-XW-82-P	30D-XW-82-P	3.50 (89)	6 (152)	36 (914)	6.07 (2.76)	
3½	XW	35B-XW-82-P	35D-XW-82-P	4.00 (102)	6 (152)	36 (914)	6.99 (3.18)	
4	XW	40B-XW-82-P	40D-XW-82-P	4.59 (114)	6 (152)	36 (914)	7.93 (3.60)	
5	XW	50B-XW-82-P	50D-XW-82-P	5.50 (140)	6 (152)	36 (914)	9.79 (4.44)	
6	XW	60B-XW-82-P	60D-XW-82-P	6.50 (165)	6 (152)	36 (914)	11.65 (5.29)	



45° X 48"

Nominal Size	Type	IPS Item No.		M	O-Tangent (min)	R - Radius (min)	Weight	
		Belowground	Aboveground				lbs	kg
¾	SW	07A-SW-83-P	07C-SW-83-P	1.05 (27)	6 (152)	48 (1,219)	0.69 (0.31)	
1	SW	10A-SW-83-P	10C-SW-83-P	1.32 (33)	6 (152)	48 (1,219)	0.78 (0.35)	
1¼	SW	12A-SW-83-P	12C-SW-83-P	1.66 (42)	6 (152)	48 (1,219)	0.94 (0.43)	
1½	SW	15A-SW-83-P	15C-SW-83-P	1.90 (48)	6 (152)	48 (1,219)	1.35 (0.61)	
2	SW	20A-SW-83-P	20C-SW-83-P	2.37 (60)	6 (152)	48 (1,219)	1.55 (0.70)	
2½	SW	25A-SW-83-P	25C-SW-83-P	2.88 (73)	6 (152)	48 (1,219)	1.88 (0.85)	
3	SW	30A-SW-83-P	30C-SW-83-P	3.50 (89)	6 (152)	48 (1,219)	2.45 (1.11)	
4	SW	40A-SW-83-P	40C-SW-83-P	4.46 (113)	6 (152)	48 (1,219)	2.94 (1.34)	
4	HW	40A-HW-83-P	40C-HW-83-P	4.51 (114)	6 (152)	48 (1,219)	3.96 (1.80)	
5	SW	50A-SW-83-P	50C-SW-83-P	5.52 (140)	6 (152)	48 (1,219)	3.68 (1.67)	
5	MW	50A-MW-83-P	50C-MW-83-P	5.57 (141)	6 (152)	48 (1,219)	4.90 (2.23)	
5	HW	50A-HW-83-P	50C-HW-83-P	5.60 (142)	6 (152)	48 (1,219)	5.31 (2.41)	
6	SW	60A-SW-83-P	60C-SW-83-P	6.58 (167)	6 (152)	48 (1,219)	4.09 (1.86)	
6	MW	60A-MW-83-P	60C-MW-83-P	6.63 (168)	6 (152)	48 (1,219)	5.80 (2.62)	
6	HW	60A-HW-83-P	60C-HW-83-P	6.66 (169)	6 (152)	48 (1,219)	6.66 (3.02)	

Nominal Size	Type	ID Item No.		M	O-Tangent (min)	R - Radius (min)	Weight	
		Belowground	Aboveground				lbs	kg
2	SW	20B-SW-83-P	20D-SW-83-P	2.14 (54)	6 (152)	48 (1,219)	1.39 (0.63)	
2½	SW	25B-SW-83-P	25D-SW-83-P	2.64 (67)	6 (152)	48 (1,219)	1.72 (0.78)	
3	SW	30B-SW-83-P	30D-SW-83-P	3.14 (80)	6 (152)	48 (1,219)	1.96 (0.89)	
3½	SW	35B-SW-83-P	35D-SW-83-P	3.64 (92)	6 (152)	48 (1,219)	2.45 (1.11)	
4	SW	40B-SW-83-P	40D-SW-83-P	4.14 (105)	6 (152)	48 (1,219)	2.82 (1.28)	
4	HW	40B-HW-83-P	40D-HW-83-P	4.19 (106)	6 (152)	48 (1,219)	3.76 (1.71)	
4½	SW	45B-SW-83-P	45D-SW-83-P	4.64 (117)	6 (152)	48 (1,219)	3.06 (1.39)	
4½	HW	45B-HW-83-P	45D-HW-83-P	4.69 (118)	6 (152)	48 (1,219)	4.25 (1.93)	
5	SW	50B-SW-83-P	50D-SW-83-P	5.14 (131)	6 (152)	48 (1,219)	3.47 (1.58)	
5	MW	50B-MW-83-P	50D-MW-83-P	5.19 (132)	6 (152)	48 (1,219)	4.61 (2.09)	
5	HW	50B-HW-83-P	50D-HW-83-P	5.22 (133)	6 (152)	48 (1,219)	5.39 (2.45)	
6	SW	60B-SW-83-P	60D-SW-83-P	6.14 (156)	6 (152)	48 (1,219)	4.16 (1.89)	
6	MW	60B-MW-83-P	60D-MW-83-P	6.19 (157)	6 (152)	48 (1,219)	5.51 (2.50)	
6	HW	60B-HW-83-P	60D-HW-83-P	6.22 (158)	6 (152)	48 (1,219)	6.45 (2.93)	

Nominal Size	Type	Item No.		M	O-Tangent (min)	R - Radius (min)	Weight	
		Belowground	Aboveground				lbs	kg
2	XW	20B-XW-83-P	20D-XW-83-P	2.50 (65)	6 (152)	48 (1,219)	5.15 (2.34)	
2½	XW	25B-XW-83-P	25D-XW-83-P	3.00 (76)	6 (152)	48 (1,219)	6.29 (2.85)	
3	XW	30B-XW-83-P	30D-XW-83-P	3.50 (89)	6 (152)	48 (1,219)	7.43 (3.37)	
3½	XW	35B-XW-83-P	35D-XW-83-P	4.00 (102)	6 (152)	48 (1,219)	8.57 (3.89)	
4	XW	40B-XW-83-P	40D-XW-83-P	4.50 (114)	6 (152)	48 (1,219)	9.72 (4.41)	
5	XW	50B-XW-83-P	50D-XW-83-P	5.50 (140)	6 (152)	48 (1,219)	12.01 (5.45)	
6	XW	60B-XW-83-P	60D-XW-83-P	6.50 (165)	6 (152)	48 (1,219)	14.29 (6.49)	