



$$X = ((\text{RUN PIPE O.D.})/2 + \text{ROOT GAP}) / 0.707 + E$$

DIMENSIONS

Outlet Size	CLASS 3000				CLASS 6000			
	THREADED & SOCKET-WELD				THREADED & SOCKET-WELD			
	A	B	C	E	A	B	C	E
NPS ¼	1 1/16	2 11/32	1 7/16	1 1/16	1 1/16	2 11/32	1 7/16	1 1/16
NPS ¾	1 1/16	2 11/32	1 7/16	1 1/16	1 1/16	2 11/32	1 7/16	1 1/16
NPS ½	1 1/16	2 11/32	1 7/16	1 1/16	1 7/8	2 ¾	1 ¾	1 29/32
NPS ¾	1 7/8	2 ¾	1 ¾	1 29/32	2 3/16	3 ¼	2 ½	2 3/16
NPS 1	2 3/16	3 ¼	2 ½	2 3/16	2 ½	3 27/32	2 5/8	2 15/16
NPS 1 ¼	2 ½	3 27/32	2 5/8	2 15/16	2 ¾	4 7/32	3 1/2	2 5/8
NPS 1 ½	2 ¾	4 7/32	3 1/2	2 5/8	3 3/8	5 7/16	4 ½	3 5/32
NPS 2	3 3/8	5 7/16	4 ½	3 5/32	3 3/8	5 7/16	4 ½	3 5/32

DIMENSIONS

Outlet Size	BUTT-WELD (STD)				BUTT-WELD (XS)			
	A	B	C	E	A	B	C	E
NPS ½	1 13/32	1 15/16	1 3/16	1 ½	1 7/16	2	1 3/16	1 19/32
NPS ¾	1 ¾	2 13/32	1 5/8	1 29/32	1 17/32	2 3/16	1 9/16	1 5/8
NPS 1	2 3/32	2 7/8	1 7/8	2 9/32	1 27/32	2 ¾	1 15/16	1 31/32
NPS 1 ¼	2 9/32	3 13/32	2 9/16	2 3/8	2 ¼	3 13/32	2 ½	2 3/8
NPS 1 ½	2 19/32	3 25/32	2 13/16	2 11/16	2 9/16	3 27/32	2 13/16	2 11/16
NPS 2	3	4 9/16	3 ½	3 1/2	2 31/32	4 9/16	3 ½	3 1/2
NPS 3	3 7/8	6 7/16	5 3/16	3 25/32	3 13/16	6 3/16	4 7/8	3 ¾
NPS 4	4 13/16	7 15/16	6 3/8	4 5/8	4 25/32	7 13/16	6 ¼	4 21/32
NPS 6	6 23/32	11 5/16	9 5/8	6 9/32	7 1/16	11 23/32	9 7/16	6 7/8
NPS 8	8 9/32	14 15/32	12 9/16	7 ½	9 1/16	15 3/32	12 ¼	8 ¾
NPS 10	10 3/16	18 7/32	15 ½	9 3/16	10 15/32	18 ½	15 3/8	9 11/16
NPS 12	11 21/32	20 19/32	18 ½	10 ¼	12 13/32	21 13/32	18 3/8	11 7/16
NPS 14	12 7/16	22 11/32	20 ¼	10 ¾	13 1/2	22 29/32	20 5/8	11 11/16
NPS 16	14 1/2	25 19/32	23 3/16	12	14 9/32	25 9/16	23 1/16	12 7/16
NPS 18	15 15/16	28 19/32	26 3/8	13 11/16	16 ¼	29	26	14 ¼
NPS 20	17 17/32	31 5/8	29 1/16	14 15/16	17 15/16	32 1/2	28 7/8	15 5/8
NPS 24	20 7/8	37 15/16	35	17 11/16	21 15/32	38 7/16	34 13/16	18 3/8
NPS 30	25 27/32	47 1/2	43 ¾	21 11/16	-	-	-	-

DIMENSIONS

Outlet Size	BUTT-WELD (SCH. 160)				BUTT-WELD (XXS)			
	A	B	C	E	A	B	C	E
NPS ½	1 5/8	2 3/8	1 3/16	1 29/32	1 1/16	2 1/2	1 1/16	1 7/8
NPS ¾	1 27/32	2 17/32	1 ½	2 1/8	1 11/16	2 11/32	1 3/8	1 31/32
NPS 1	2 5/32	3	1 13/16	2 15/32	2 5/32	2 7/8	1 5/8	2 ½
NPS 1 ¼	2 21/32	3 23/32	2 3/8	2 31/32	2 17/32	3 1/16	2 3/16	2 15/16
NPS 1 ½	2 31/32	4 7/32	2 7/8	3 11/32	2 27/32	4 1/8	2 11/16	3 ¼
NPS 2	3 3/8	4 15/16	3 5/16	3 23/32	3 ¼	4 25/32	3 3/16	3 5/8
NPS 3	4 19/32	7 1/16	5	4 15/16	4 17/32	6 13/16	4 ¾	4 31/32
NPS 4	5 21/32	8 23/32	6 ¼	6 1/2	5 1/16	8 ½	6	6

