

# MANHOLE HOLE SIZE DATA

MANHOLE - STANDARD HOLE SIZE DATA									
ADS N-12 CORRUGATED POLYETHYLENE DRAINAGE PIPE					P.V.C. (SDR-35) SEWER PIPE				
NOMINAL SIZE (in.)	HOLE SIZE (in.)	BOOT NPC, Inc. MODEL #:	WALL THICKNESS (in.)	OUTSIDE DIAMETER (in.)	NOMINAL SIZE (in.)	HOLE SIZE (in.)	BOOT NPC, Inc. MODEL #:	WALL THICKNESS (in.)	OUTSIDE DIAMETER (in.)
4"	7"	-	0.020"	4.78"	4"	7"	S106-7S	0.120"	4.215"
6"	12"	-	0.020"	6.92"	6"	12"	S106-12B	0.180"	6.275"
8"	12"	-	0.025"	9.11"	8"	12"	S106-12A	0.240"	8.400"
10"	16"	-	0.025"	11.36"	10"	16"	S106-16B	0.300"	10.50"
12"	18"	-	0.035"	14.45"	12"	16"	S106-16A	0.360"	12.50"
15"	20"	-	0.035"	17.57"	15"	20"	S106-20B	0.437"	15.30"
18"	24"	-	0.050"	21.20"	18"	24"	S206-24A	0.536"	18.70"
21"	26"	-	0.050"	24.70"	21"	26"	S206-26	0.532"	22.05"
24"	32"	-	0.050"	27.80"	24"	28"	S206-28	0.711"	24.80"
30"	42"	-	0.050"	36.07"	27"	32"	S206-32	-	27.95"
36"	48"	-	0.050"	42.46"	30"	36"	S206-36	-	32.00"
42"	54"	-	0.050"	46.75"	36"	42"	S206-42	-	38.30"
48"	60"	-	0.050"	52.70"	-	-	-	-	-

MANHOLE - STANDARD HOLE SIZE DATA (cont'd.)									
DUCTILE IRON PIPE (C-900 PVC, CMP, SDR 21 PVC)					REINFORCED CONCRETE PIPE				
NOMINAL SIZE (in.)	HOLE SIZE (in.)	BOOT NPC, Inc. MODEL #:	WALL THICKNESS (in.)	OUTSIDE DIAMETER (in.)	NOMINAL SIZE (in.)	HOLE SIZE (in.)	BOOT NPC, Inc. MODEL #:	WALL THICKNESS (in.)	OUTSIDE DIAMETER (in.)
4"	7"	S106-7S	0.260"	4.800"	6"	12"	S106-12A	1.00"	8.00"
6"	12"	S106-12B	0.280"	6.900"	8"	12"/14"	S106-14	1.25"	10.5"
8"	12"	S106-12	0.300"	9.050"	10"	16"	S106-16A	1.25"	12.5"
10"	16"	S106-16B	0.320"	11.10"	12"	20"	S106-20WP	2.50"	17.0"
12"	16"	S106-16	0.340"	13.20"	15"	24"	S206-24	2.50"	20.0"
14"	20"	S106-20B	0.360"	15.30"	18"	26"/28"	S206-26	2.50"	23.0"
16"	20"	S106-20A	0.340"	17.40"	21"	32"	S206-30	2.75"	26.5"
18"	24"	S206-24A	0.350"	19.50"	24"	36"	S206-34L	3.00"	30.0"
20"	24"	S206-24L	0.360"	21.60"	27"	38"	S206-38L	3.25"	33.5"
24"	28"	S206-28L	0.380"	25.80"	30"	42"	S206-42	3.50"	37.0"
30"	36"	S206-36	0.390"	32.00"	36"	48"	S206-48	4.00"	44.0"
36"	42"	S206-42	0.430"	38.30"	42"	54"/56"	S206-54L	4.50"	51.0"
42"	48"	S206-48	-	44.50"	48"	64"	-	5.00"	58.0"
48"	54"	S206-54L	-	50.80"	54"	72"	-	5.50"	65.0"
54"	60"	S206-60	-	57.56"	60"	78"	-	6.00"	72.0"
-	-	-	-	-	72"	92"	-	7.00"	86.0"

# MANHOLE HOLE SIZE DATA

MANHOLE - MAXIMUM HOLE SIZE DATA							
I.D.	Wall Thickness	O.D.	Max Hole Size	Min. Dist Between Holes	Max Hole Size @ 90°	Inches/Deg. I.D.	Inches/Deg. O.D.
48"	5"	58"	36"	8"	28"	0.419"	0.506"
60"	6"	72"	48"	8"	36"	0.524"	0.628"
72"	7"	86"	60"	12"	42"	0.628"	0.750"
84"	8"	100"	72"	12"	50"	0.733"	0.873"
96"	9"	114"	84"	12"	58"	0.838"	0.995"
120"	11"	142"	108"	12"	76"	1.047"	1.239"
144"	13"	170"	132"	12"	92"	1.257"	1.484"