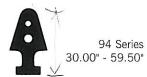
# PART 6 • DIMENSIONAL DATA

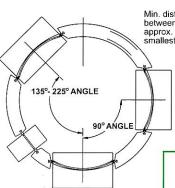




93 Series 8.50" - 29.00"





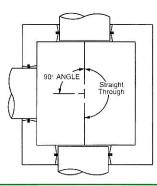


MAX. PIPE SIZE OD's

bel	n. distance tween pipes is prox. ½ the nallest pipe OD
135°- 225° ANGLE	
90° ANGLE	MAX

# X. PIPE SIZE OD's

Manhole Diameter	135° - 225° Pipe Angle	90° Pipe Angle
42"	26.5"	22.0"
48"	31.5"	25.0"
60"	42.0"	32.0"
72"	52.5"	38.0"
84"	59.5"	44.0"
96"	73.5"	50.0"
108"	76.0"	56.0"
120"	85.0"	62.0"

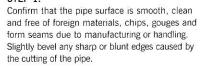


# MAX. PIPE SIZE OD's BOX STRUCTURES

Inside Wall Dimension	Straight Through	90° Pipe Angle
2'	19.50"	17.50"
3'	32.00"	30.00"
4'	44.00"	42.00"
5'	56.00"	54.00"
6'	67.00"	65.00"
7'	80.50"	78.50"
8'	91.25"	89.25"
9'	103.25"	101.25"

# **INSTALLATION INSTRUCTIONS**

## STEP 1:





Bottom

Large Bore Detail

Small Bore Detail

Lubricate the connector and the entire section\* of the pipe that will be inserted into the connector. The chart below lists A-LOK's minimum Jubrication length "I"

PIPE SIZE	MIN, LUBRICATION LENGTH "L"
4" - 15"	12"
16" - 18"	18"
21" & Larger	24"

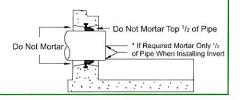
#### STEP 3:

Center the pipe and connector square to each other and insert the pipe into the connector using a bar or back hoe depending on the size. Once the pipe is coupled with the connector, deflect the structure or pipe to achieve the proper angle.

To ensure the A-LOK STM Connector remains a flexible watertight connector, it is A-LOK Products, Inc. strong recommendation that no mortar be placed between the pipe and wall of the concrete structure. The use of mortar in this area would decrease the effectiveness of the connector to compensate for shear caused by settlement or ground movement.

### NOTE:

To find approximate subgrade, measure from the outside base of the structure to the junction of the connector and flat spot. Then add the wall thickness of the pipe plus 1/4 inch.



# PRODUCT SPECIFICATIONS

A flexible pipe to manhole connector shall be used whenever a pipe penetrates into a precast concrete manhole or structure used in a stormwater drainage system.

The connector shall be the  $\mathbf{A} \bullet \mathbf{LOK}^*$  STM CONNECTOR as manufactured by A.LOK PRODUCTS, INC., Tullytown, PA, or approved equal.

The design of the connector shall provide a flexible, watertight seal between the pipe and concrete structure. The connector shall assure that a seal is made between:

- (1) The connector and the structure wall by casting the connector integrally with the structure wall during the manufacturing process in a manner that it will not pull out during pipe coupling. The connector shall also be capable of being cast into a round structure by curving the connector in a manner that allows it to remain centrally located within the structure wall and perpendicular to the pipe. This configuration will result in no loss of seal or deflection of pipe entering a concrete structure.
- (2) The seal between the connector and the pipe shall be made by the compression of the connector between the outside circumference of the pipe and the interior hole opening of the structure. The connector shall be the only component to affect the seal between the pipe and structure.

The connector shall be made from materials that conform to the physical and chemical requirements outlined in Section 4, "Materials and Manufacture" of ASTM C-1478 "Standard Specification for Storm Drain Resilient Connectors Between Reinforced Concrete Storm Sewer Structures, Pipes, and Laterals," and the overall design will meet or exceed Section 7, "Test Methods and Requirements" of ASTM C-1478.

The connector shall be sized specifically for the type of pipe being used and shall be installed in accordance with the recommendations of the manufacturer.

ANY QUESTIONS REGARDING A.LOK STM CONNECTOR INSTALLATION, PLEASE CALL 1-800-822-2565

restrained to prevent any

movement by means

CAUTION:

When installing pipe stubs for future pipeline installation, all stubs

must be properly