



PREMIER FLEXIBLE STAINLESS TUBING

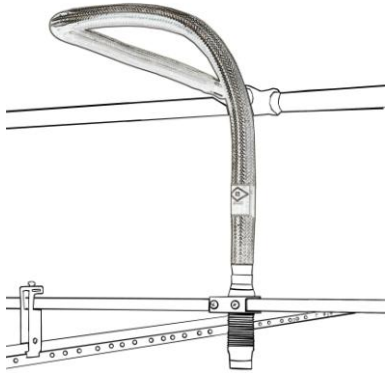
P.O. Box 640
Rolla, Missouri 65402

SIDEWINDER™

TECHNICAL DATA



1-800-554-3539 • 573-364-2930 (facsimile) • info@gatewaytubing.com • www.gatewaytubing.com



Model	Tubing Length	Reducer Diameter
B230	30"	1/2"
B248	48"	1/2"
B330	30"	3/4"
B348	48"	3/4"

Table 1 - Sidewinder™ Model Numbers

Introduction

Gateway Tubing's Sidewinder™ sprinkler drop connects the branch line to the sprinkler head using a flexible stainless steel tube and reducer. The flexible tube bends by hand for instant placement of every sprinkler head in the precise center-of-tile of a suspended ceiling.

Sidewinder™ drops are available in two different lengths: 30" and 48". Each length is available in two different sizes for reducer threading: 1/2" and 3/4" NPT thread. Each Sidewinder™ drop is FM approved.

Technical Data

Product Identification

Gateway's Sidewinder™ drops are available in 6 different models, depending on the length of the sprinkler drop and diameter of the reducer needed. See Table 1.

Maximum Working Pressure:
175 PSI

Temperature Rating: 225°F

Connection to Branch Line:
1"NPT

Minimum Bend Radius of Flexible Tube: 6 inches. Do not bend within 2½ inches of connection nut or reducer.

Maximum number of bends in one flexible tube: 3

Approval: Factory Mutual Approved



Parts Included

Each Sidewinder™ assembly consists of the following parts: one-piece stainless steel flexible tube and reducer ready to mount to branch line; one square tube 52" in length; two ceiling grid clamps which suspend the square tube above the ceiling grid; one reducer clamp which connects the reducer to the square tube; and one nipple which connects the branch line to the flexible tubing.

Friction Loss Data

Table 2 (below) shows the hydraulic friction loss expressed in terms of the average equivalent length of Schedule 40 steel pipe.

Model	Average Equivalent Length (in feet) of 1" Schedule 40 Pipe
B230	14.6
B248	28.0
B330	20.7
B348	32.1

Table 2 - Friction loss data

Installation

Each Sidewinder™ assembly must be installed according to NFPA 13 standards and local government requirements, standards and codes.

Step 1: Connect the upstream inlet (nipple) to the branch line using the wide, NPT threads of the nipple. *Figure 1.* Apply a nonhardening pipe joint compound or Teflon tape to the NPT male threads of the nipple. Tighten firmly with pipe wrench for leak proof connection.

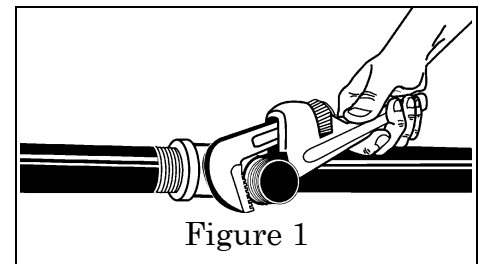


Figure 1

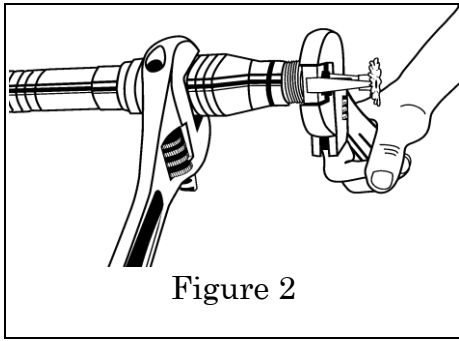


Figure 2

Step 2: Connect the sprinkler head to reducer. Apply a nonhardening pipe joint compound or Teflon tape to the male threads of the sprinkler head and connect to the reducer according to the sprinkler head manufacturer's instructions.

Figure 2.

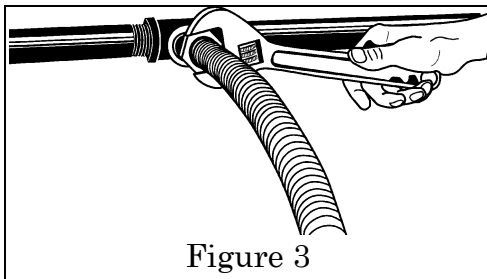


Figure 3

Step 3: Connect the sprinkler hose nut to the nipple. *Figure 3.* Do not use joint compound or Teflon tape on the fine threads of the nipple. The nut on the end of the flexible hose contains a gasket which provides the leak proof connection. Tighten the nut onto the nipple to the end of the thread.

Step 4: Bend the flexible hose by hand to the desired route for sprinkler head placement. Minimum bend radius: 6".

Figure 4. Maximum number of bends: not exceeding three (3) times. Do not bend within 2.5" of either end fitting.

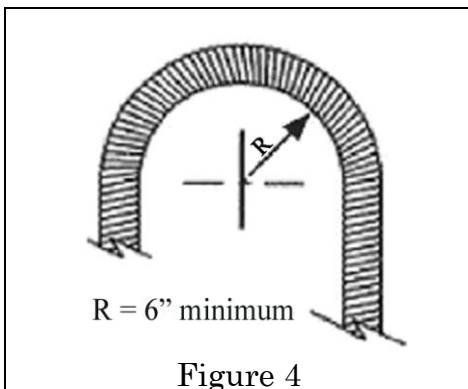


Figure 4

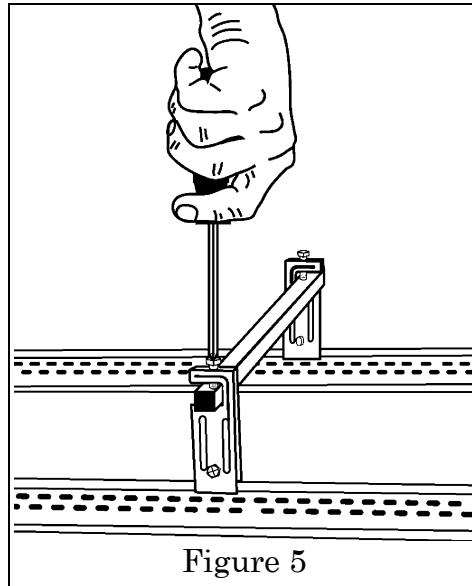


Figure 5

Step 5: Attach the ceiling grid clamps to the rails of the suspended ceiling, then attach the support bar to the ceiling grid clamps. *Figure 5.* Then attach the reducer to the support bar using the reducer clamp. *Figure 6.* Tightening torque for screws in ceiling grid clamps and reducer clamp: 4.1 ft-lbs (5.5 Nm).

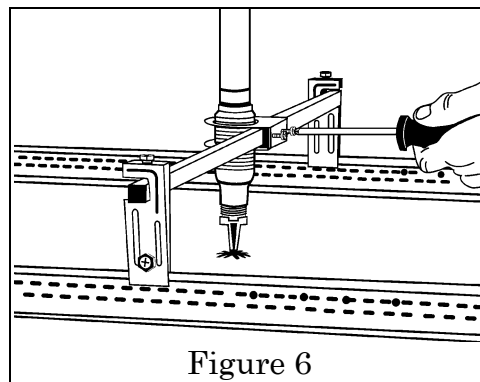


Figure 6

Step 6: Test the sprinkler system for leaks pursuant to applicable codes. Maximum working pressure: 175 PSI. Do not move or bend the flexible hose during pressure testing in order to avoid leakage.

Limited Warranty

Gateway Tubing, Inc. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that its products are free from defects in materials and workmanship under normal conditions of service and

use for a period of two years from the date of sale by Gateway. This warranty does not apply to damage due directly or indirectly to misuse, abuse, or negligence, and does not apply to products that have been installed, used or maintained in a manner contrary to our recommendations or instructions.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. This warranty only extends to the original purchaser, and may not be assigned. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If we verify the defect and determine that the product is covered by this warranty, we will either repair or replace the product at our election, or we may elect to refund the purchase price. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of storing and returning the product.

THIS WARRANTY IS IN LIEU OF ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE. GATEWAY TUBING, INC. SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING FROM ANY BREACH OF THIS LIMITED WARRANTY OR ARISING OUT OF THE SALE OF, USE OF, OR DEFECT IN ANY OF OUR PRODUCTS. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.