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NIBCO 90 Degree ABS Elbow Instruction Manual

Model: U47073512

1. PRODUCT OVERVIEW

The NIBCO 5807 90-degree elbow pipe fitting is constructed from acrylonitrile butadiene styrene (ABS) and is designed for use in drain, waste, and vent (DWV) systems. This fitting features hub connections, allowing it to slide over the ends of male pipes. Its primary function is to change the direction of flow between two pipes at a 90-degree angle.

Key features of this NIBCO ABS elbow include:

- **90-degree elbow:** For connecting two pipes or fittings at an angle.
- **Hub ends:** Designed for connecting to male unthreaded pipes or fittings.
- **ABS-DWV material:** Provides chemical and corrosion resistance, performs across a wide temperature range, and is lightweight for quick assembly.
- **Smooth interior finish:** Reduces friction and inhibits material buildup, ensuring superior flow.
- **Certified quality:** Meets ASTM D2661 and D3311 specifications for quality assurance.



Figure 1: NIBCO 90 Degree ABS Elbow, 1-1/2 Inch, designed for efficient flow direction changes in DWV systems.

Your browser does not support the video tag.

Video 1: Product Overview Video. This video provides a visual introduction to the NIBCO 90 Degree ABS Elbow, highlighting its features and construction from durable ABS material, its smooth interior, and hub ends for easy connection.

2. INSTALLATION AND USAGE

The NIBCO 90-degree ABS elbow is intended for use in non-pressure residential and commercial drain, waste, and vent (DWV) sanitary systems. ABS material is resistant to most household chemicals and many corrosive industrial liquids, performing well across a wide temperature range. Its lightweight nature simplifies installation both above and below ground.

Installation Guidelines:

- Ensure all pipe ends are clean and free of burrs before assembly.
- Apply an appropriate ABS solvent cement to both the pipe end and the fitting's hub.
- Insert the pipe fully into the fitting's hub with a quarter turn to ensure even distribution of cement.
- Hold the joint firmly for approximately 30 seconds to allow initial set.

- Allow adequate cure time before testing the system, as per solvent cement manufacturer's instructions.
- ABS can be connected to other materials like steel, copper, or cast iron using appropriate transition fittings.

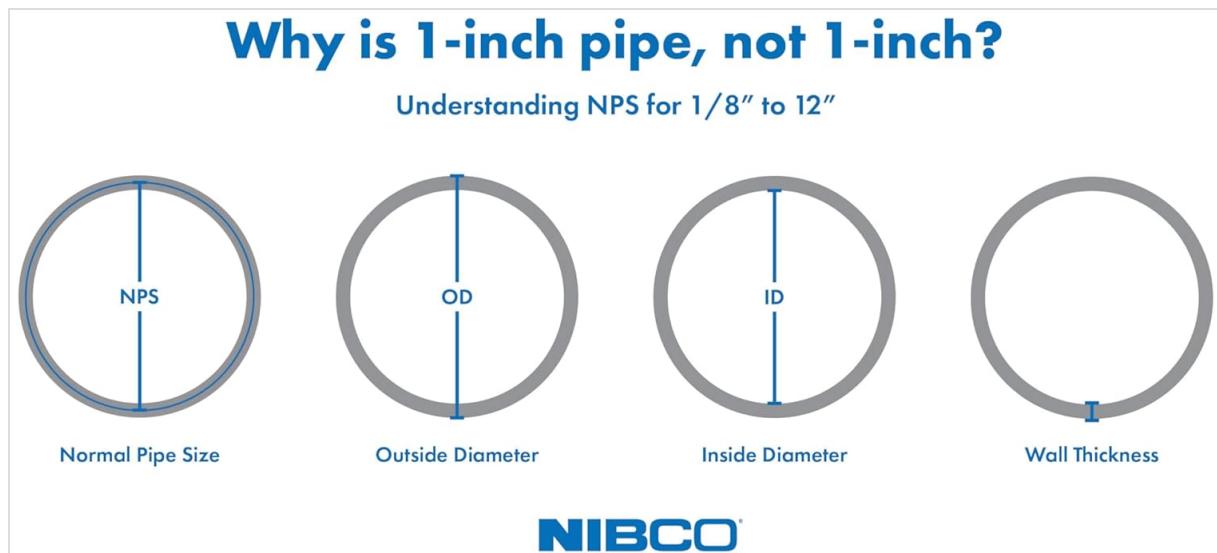


Figure 2: Understanding Pipe Sizing. This diagram illustrates the concepts of Nominal Pipe Size (NPS), Outside Diameter (OD), Inside Diameter (ID), and Wall Thickness, which are crucial for proper fitting selection.

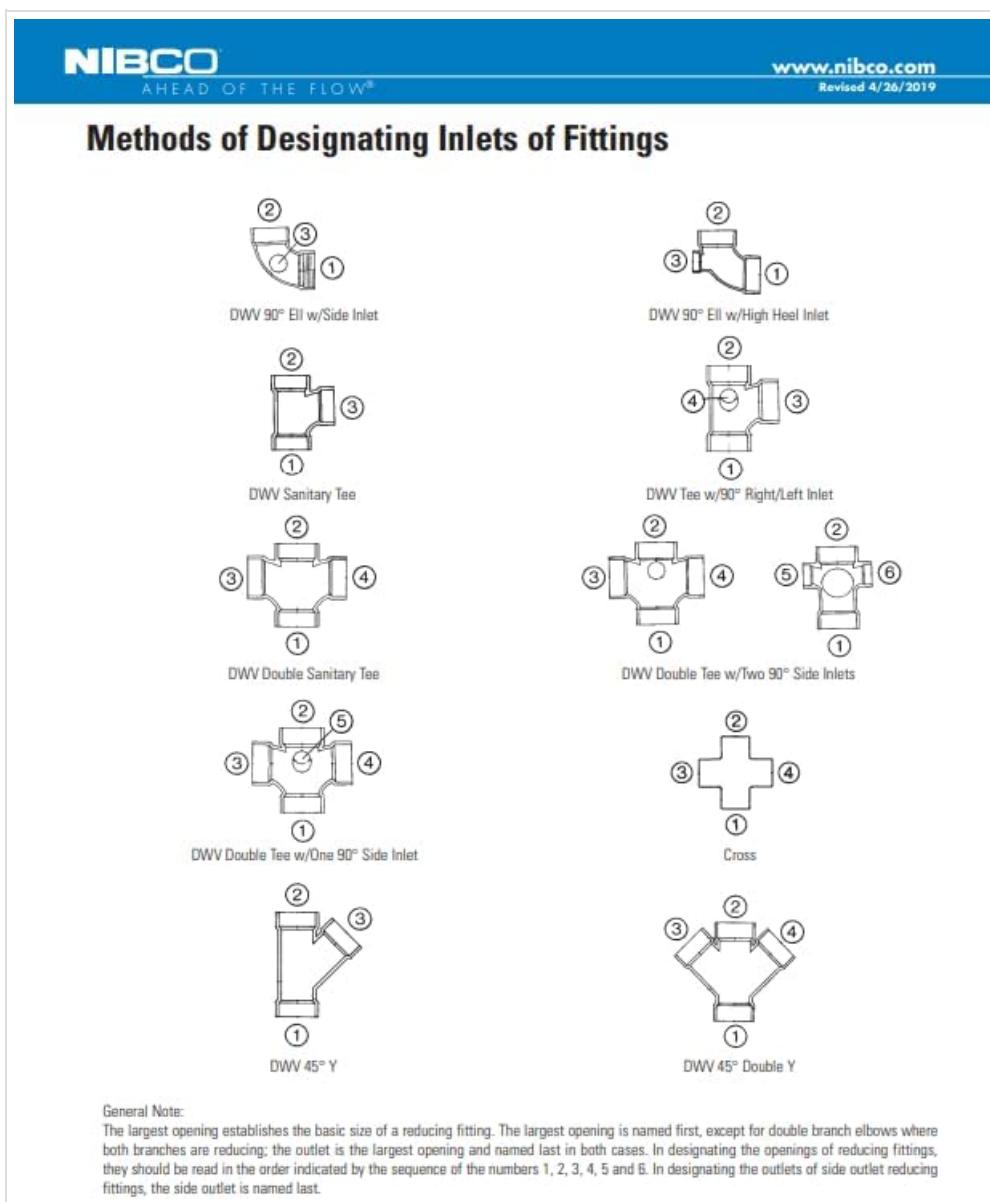


Figure 3: Methods of Designating Inlets of Fittings. This image provides visual examples and explanations for various DWV fitting configurations, aiding in correct system design and assembly.

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ABS & PVC-DWV Fittings
5800 Series ABS/4800 Series PVC

ELBOWS (Continued)

45° Street Ell (Spg x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
1 1/4	1.00	1.36	1	1 1/4
1 1/2	.134	.174	1 1/4	1 1/2
2	.201	.277	1 1/4	2 1/4
3	.601	.818	1 1/4	3 1/4
4	1.048	1.464	2 1/4	3 1/4
6	2.772	3.950	3 1/4	6 1/4
1 1/2 x 6 F	N/A	5.738	2 1/4	6 1/4
1 1/2 x 4 F	N/A	6.500	2 1/4	5
		6.200	2 1/4	3 1/4

5807 4807



90° Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
1 1/4	.122	.184	1 1/4
1 1/2	.149	.204	1 1/2
2	.248	.331	2 1/4
3	.724	1.008	3
4	1.278	1.840	3 1/4
6	3.453	4.666	5 1/4
1 1/2	N/A	8.953	5 1/2

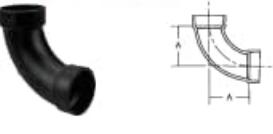
5807-CL 4807-CL



90° Closet Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES	DIM. B INCHES
4 x 3	1.944	1.448	3	3 1/4

5807-LT 4807-LT



90° Long Turn Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/4	.164	N/A	2 1/4
1 1/2	.206	.279	2 1/4
2	.291	.409	3 1/2
3	.855	1.268	4 1/4
4	1.542	2.114	4 1/2

WARNING: This product can expose you to chemicals including styrene, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

* Available in ABS only
† Available in PVC only
F Fabricated

Do not use or test the products in this catalog with compressed air or other gasses.

Figure 4: NIBCO ABS & PVC-DWV Fittings Chart. This chart details various elbow types, including the 90-degree hub x hub elbow, with nominal sizes and approximate weights for both ABS and PVC materials.

5807-2 | 4807-2



90° Vent Ell (Hub x Hub)

NOM. SIZE	ABS APPROX. NET WT./LBS.	PVC APPROX. NET WT./LBS.	DIM. A INCHES
* 1 1/4	.106	N/A	1
1 1/2	.145	.190	1 3/16
2	.194	.255	1 1/2
3	.584	.839	1 7/8
4	1.048	1.547	2 1/2
10	N/A	19.410	5 13/16
12	N/A	25.940	6 7/8

Figure 5: 90° Vent Ell (Hub x Hub) Specifications. A detailed table providing nominal sizes, approximate net weights for ABS and PVC, and critical dimension 'A' in inches for the 90-degree vent elbow.

3. OPERATING PRINCIPLES

The NIBCO 90 Degree ABS Elbow is a passive component within a plumbing system. Its operation is based on its fixed 90-degree angle, which redirects the flow of waste, drain, or vent gases within the DWV system. Once properly installed and sealed, it provides a permanent, leak-free directional change without requiring any active user interaction or power.

4. MAINTENANCE

Due to the durable nature of ABS material and the static function of the elbow, minimal maintenance is required. Regular inspection of the plumbing system for any signs of leaks or damage around the fitting is recommended. If a leak is detected, the joint may need to be re-cemented or the fitting replaced. Avoid exposing the fitting to chemicals not compatible with ABS, as this could compromise its integrity.

5. TROUBLESHOOTING

Most issues related to pipe fittings stem from improper installation. Common troubleshooting scenarios include:

- Leaks at the joint:** This typically indicates insufficient solvent cement application, improper pipe insertion, or inadequate cure time. The joint may need to be cut out and re-installed.
- Restricted flow:** While rare for the elbow itself, blockages can occur in the system. Ensure proper pipe sizing and slope during installation to prevent debris accumulation.
- Cracks or damage:** Physical impact or exposure to incompatible chemicals can cause damage. The fitting must be replaced if cracked or otherwise compromised.

For persistent issues, consult a qualified plumbing professional.

6. PRODUCT SPECIFICATIONS

Attribute	Detail
Size	1-1/2 Inch
Material	Acrylonitrile Butadiene Styrene (ABS)
Brand	NIBCO
Color	Black
Item Dimensions L x W x H	3.59 x 2.26 x 3.59 inches
Connector Type	Hub
Exterior Finish	ABS DWV
Thread Type	NPT (Note: This fitting uses hub connections, not threads for primary connection)
Number of Pieces	1
Global Trade Identification Number (GTIN)	00039923196521
Manufacturer	NIBCO INC.
UPC	039923196521
Part Number	I05530H
Item Weight	2.08 ounces
Product Dimensions	3.59 x 2.26 x 3.59 inches
Item Model Number	U47073512
Shape	90 Degree Elbow
Item Package Quantity	1
Measurement System	Inch
Certification	ASTM D2661 and D3311, ASTM D2665, ASTM D3965, CSA B181.1, NSF U.p. Certified, NSF/ANSI Standard 14, UL Listed 94v-0

7. WARRANTY INFORMATION

NIBCO INC. warrants each NIBCO® plumbing plastic fitting (including plumbing valves) to be free from defects in material and workmanship under normal use and service for a period of five (5) years from the date of purchase.

8. SUPPORT AND CONTACT

For additional support, product information, or inquiries, please visit the official NIBCO website or contact their customer service. You can find more information about NIBCO's extensive range of flow control products for residential, commercial, industrial, and irrigation markets worldwide.



Figure 6: NIBCO Brand Family. NIBCO offers a wide array of flow control products for various applications.

NIBCO Official Website: www.nibco.com

NIBCO Amazon Store: [Visit the NIBCO Store on Amazon](https://www.amazon.com/s?k=nibco)