



## DW-NAKS Quick Start Guide

### JOINT ASSEMBLY - Flange

The DW-NAKS incorporates a flange-to-flange connection. The Pipe includes a spigot that engages into the adjacent pipe section. This spigot facilitates alignment of pipe sections, provides support during assembly and protects the sealed joint during cleaning. The spigot should always be positioned down, back toward the appliance. Follow the flow direction arrow on the product label. If necessary, it is permissible to remove the spigot (with a cutting wheel or similar) to allow to be installed in tight spaces.

To Install:

1. Position the pipe so the UP/FLOW arrow is in the direction of the flue gas flow
2. Prepare flange surfaces where sealant will be applied. Be sure all surfaces are clean of dirt and oil. Follow instructions included with corresponding sealant.
3. Apply J-600 Sealant continuously (1/8" bead minimum) to the flange surface of the pipe (See Fig 1-11).
4. Join flanged surfaces together. Ensure the flow arrows are in the direction of the flue gas flow.
5. Apply sealant to the inner groove of the V-Band (see Fig 1-11)
6. Position the V-Band around the joint, capturing the flanges in the groove of the V-Band (See Fig 1-12)
7. Install fasteners in V-Band retainer and tighten hardware
8. Wrap the joint with insulation (provided) (See Fig 1-12)
9. Position the Locking Band (LB) around the outer pipe (DW-NAKS Only)
10. Tighten hardware on Locking Band to secure
11. For exterior installations, apply Dow 732 (grey) sealant around the circumference of the locking band seam (See Fig 1-13.)

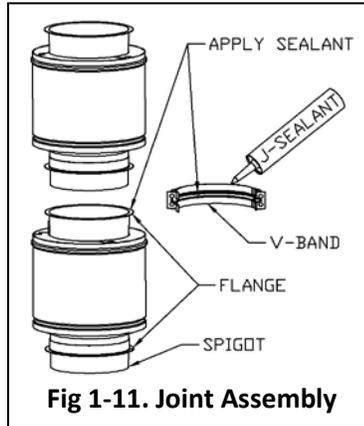


Fig 1-11. Joint Assembly

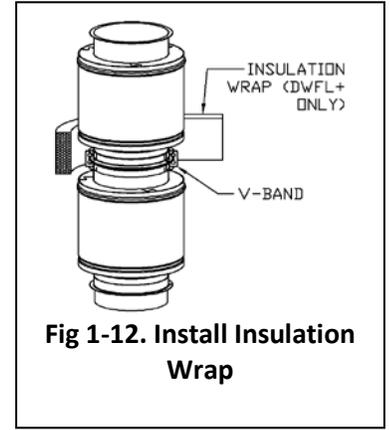


Fig 1-12. Install Insulation Wrap

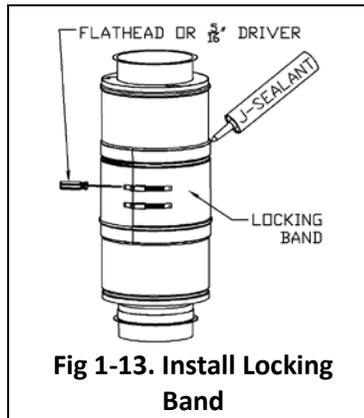


Fig 1-13. Install Locking Band

Diameter	# of Joints
3 - 6"	10
8 - 10"	9
11 - 12"	8
13 - 16"	7
18 - 20"	6
22 - 24"	5
26 - 28"	4
30 - 32"	3
34 - 36"	2

Table 1-6. Sealant Usage Chart  
Number of Joints sealed per tube.

### Plate Support (PS)

The Plate Support (PS) is intended to provide support to vertical sections and provide an anchor support for horizontal sections. The PS consists of Crescent-flanges and Plates bolted together, sandwiching the V-band & flange joint in the middle. The Plate Supports must be anchored with rigid structural members by the installing contractor. The structural project engineer should select support members in accordance with good engineering practice to suit each specific application.

To Install:

1. Complete pipe joint and secure V-Band (see Joint Assembly Section).
2. Position Plate Support below V-Band. Align clearance notch in Plate Support with Clamps on V-Band
3. Position Crescent flange above V-Band. Align clearance notch in Crescent flange with Clamps on V-Band. The Crescent flanges should overlap the seam between Plate Supports. (See Fig. 2-4)
4. Install bolts through pilot holes in Crescent flange and Plate Support, sandwiching V-Band joint in the middle.
5. Install Nuts and Tighten bolts.
6. Wrap inner flue pipe with insulation provided (DWNaks only).
7. Position Finishing Band so formed edge engages with Bead on outer and tighten worm gear (DWNaks only).
8. Fasten / secure Plate Support to Structural Members.

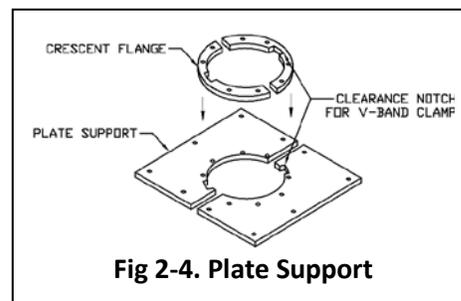


Fig 2-4. Plate Support

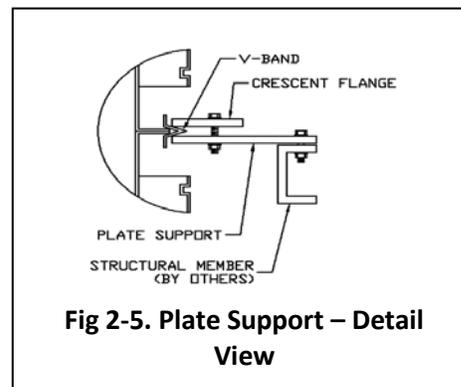


Fig 2-5. Plate Support - Detail View

### Light Support Band (LSB)

The Light Support Band can be used on low pressure and low temperature applications such as heating boiler stacks (not for use with engine or turbine exhaust) for support/guide in horizontal or vertical installations.

The band firmly clamps around the pipe outer jacket and includes four (4) 1/4" x 20 stainless steel nuts and bolts. Remaining hole in the middle where wires or threaded rods (by the installing contractor) are used for support or guiding back to the building structure. See Fig 2-13.

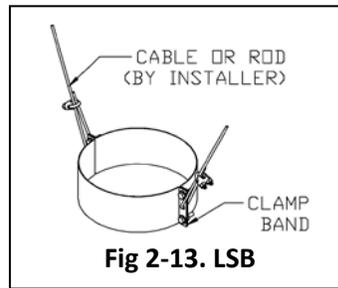


Fig 2-13. LSB

### Adjustable Length (AL) [Model DWNAKS]

The AL is used where odd length of vent is required. It is not intended to accommodate thermal expansion.

The AL includes a Slip Section, an Raw Collar Outside Adapter (RCO) and a Clamshell style outer jacket (Double-Wall only).

To Install (See Figs 3-2 & 3-3):

1. Loosen Clamp on RCO and adjust/slide the flange to the required location.
2. Clean/Prepare surface and apply sealant between the Slip Section and RCO to create a seal.
3. Tighten RCO clamp to secure it in place.
4. Install AL assembly to the adjacent pipe. The Slip Section will slide into the inside of the adjacent pipe. If the Slip Section is too long and interferes with elbow or other component, the extra length can be cut off.
5. Join the flanged ends to the adjacent pipe sections with V-Band. Refer to Joint Assembly section for proper sealant usage and joint connection method.
6. Wrap the inner flue with provided insulation (DWNAKS option only)

Install Clamshell style outer around AL (DWNAKS options only). The outlet end of the Clam Shell has a flange that will seat in the bead. The Lower end of the Clam Shell is clamped flush against the outside of the pipe.

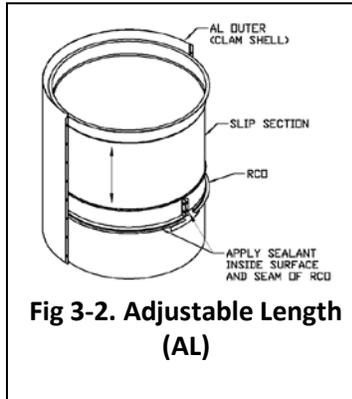


Fig 3-2. Adjustable Length (AL)

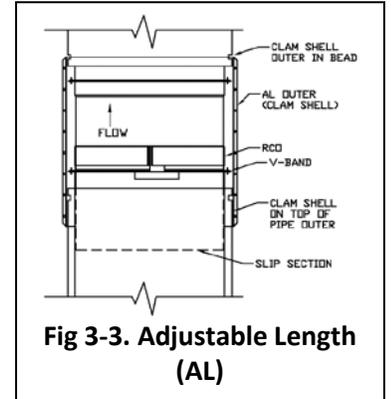


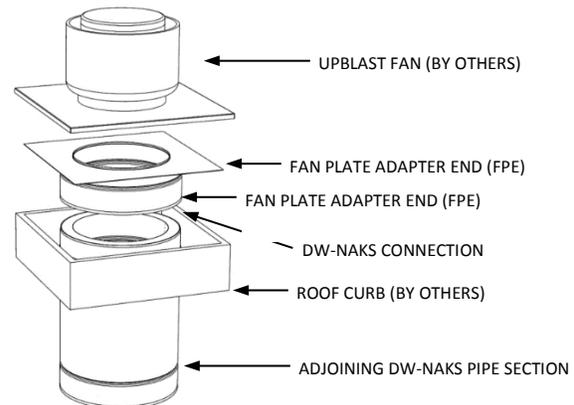
Fig 3-3. Adjustable Length (AL)

### FANPLATE ADAPTER START & END (FPS & FPE)

This is a heavier gauge flat plate that can be used to start at a masonry fireplace outlet, or to attach a chimney fan or fan curb housing at the termination.

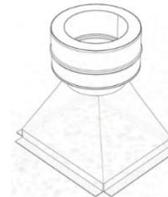
When used as a Fan Plate Adapter End (as shown in below Figure 5-7), the flat plate is designed to set directly on top of the roof curb (by others). The installing contractor uses bolts or screws through the plate into the curb.

Figure 5-7, Fan Plate Adapter End



### DW-NAKS/SW-NAKS SQUARE TO ROUND TRANSITION ADAPTERS (TRS/TRE/STR)

These adapters allow transition to and from rectangular connections.



### NO-WELD HOOD ADAPTER (NWAH)

Connects Models SW-NAKS and DW-NAKS to a kitchen exhaust hood without the need for field welding.

To Install (See Fig 5-0):

1. Using the Lower ring as a template, scribe and cut center hole and pilot holes in Appliance Hood
2. Align Flanged Pipe Collar on top of appliance hood
3. Apply Gasket between collar connection and appliance hood
4. Align 2-Piece Receiver on top of Flanged Pipe Collar
5. Install Bolts in the lower ring, through Appliance hood and into 2-piece receiver and tighten securely.

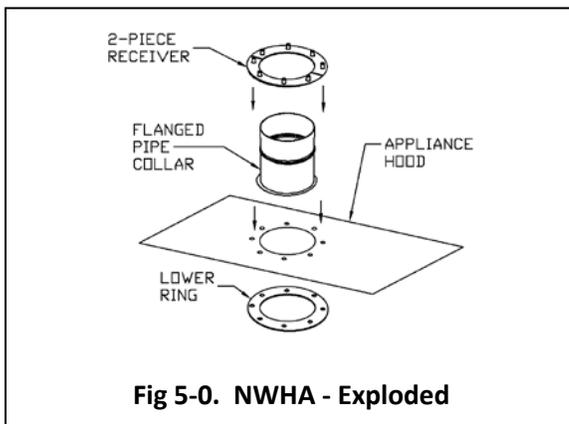


Fig 5-0. NWAH - Exploded