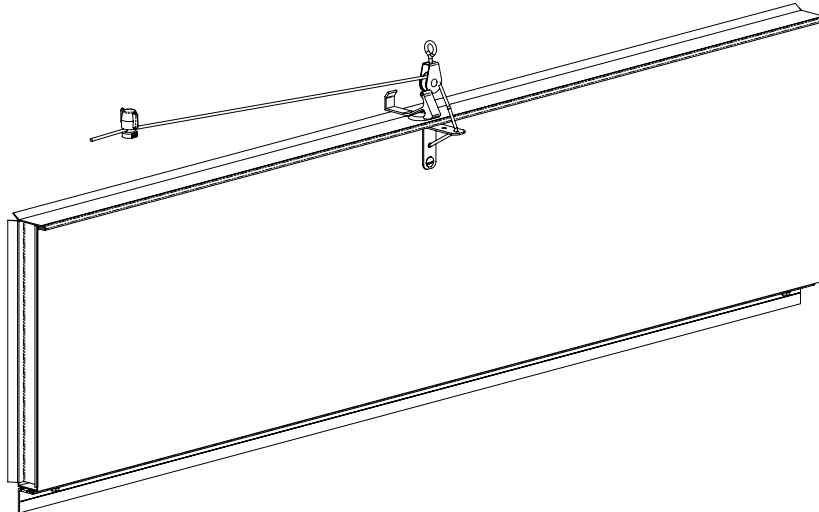




# Frameless 12" Inlet

810170, 810178, 810180, 810183, 810185,  
VAI12SWCI96K, VAI12SWSI96K

## Installation Instructions



### Tools Required for Installation

- Hammer
- Tape Measure
- Level
- Cordless Power Drill with 13/64" drill bit
- Circular Saw
- 1/4" and 5/16" Nut Driver
- 3/8" Socket with Socket Wrench
- Flat Head Screwdriver

*Hammer*



*Tape Measure*



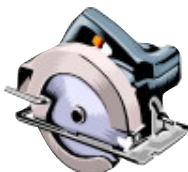
*Level*



*Cordless Power Drill*



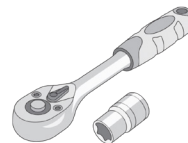
*Circular Saw*



*Nut Driver*



*Socket with Wrench*

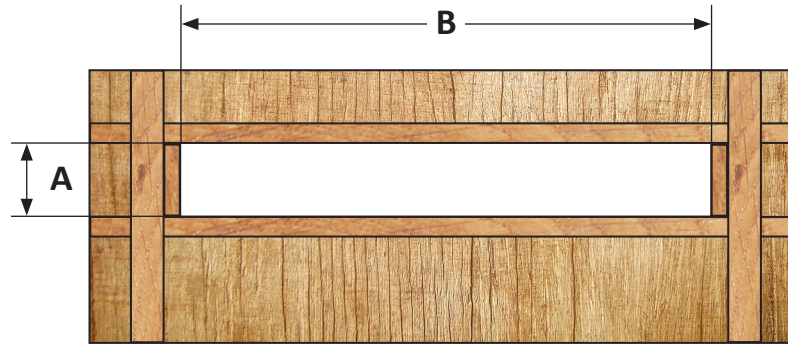


*Flat Head Screwdriver*



## Preparing the Opening

1. Frame the opening for each inlet according to inlet size, as shown in the diagram and associated chart below.

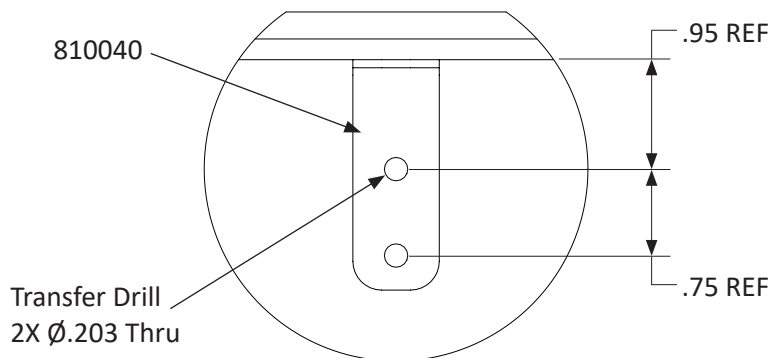
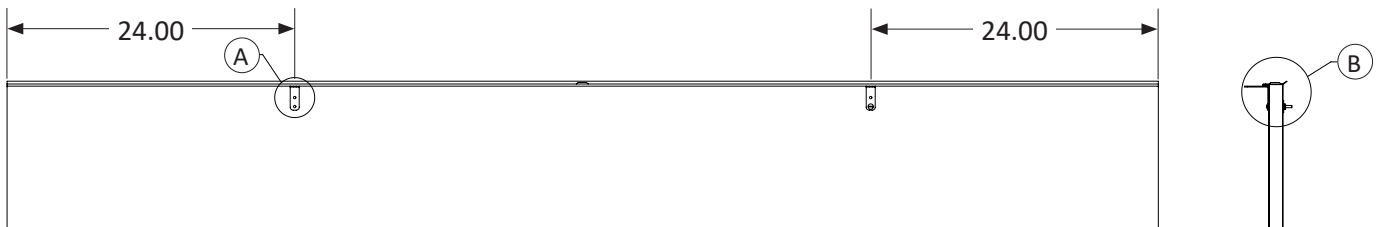


PART #	INLET TYPE	DIMENSION "A"	DIMENSION "B"
810170	Discrete	11.5" (29.2cm)	47.5" (120.6cm)
810183	Discrete	11.5" (29.2cm)	93.5" (237.5cm)
810185	Discrete	11.5" (29.2cm)	93.5" (237.5cm)
810178	Continuous	11.5" (29.2cm)	Total Length - 0.50" (1.3cm)
810180	Continuous	11.5" (29.2cm)	Total Length - 0.50" (1.3cm)
VAI12SWCI96K	Continuous	11.5" (29.2cm)	Total Length - 0.50" (1.3cm)
VAI12SWSI96K	Continuous	11.5" (29.2cm)	Total Length - 0.50" (1.3cm)

## Inlet Frame Assembly

2. Drill inlet for cord brackets.

**NOTE:** Only one bracket needed for 810170, drilled in the center.

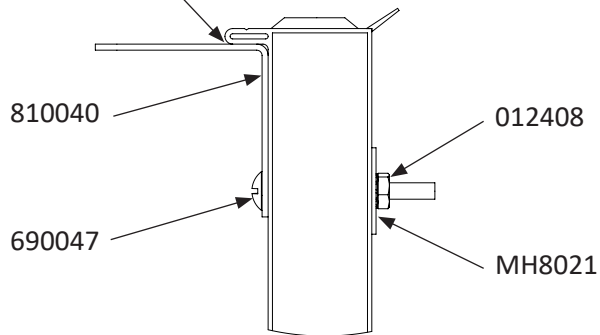


Detail A

## Inlet Frame Assembly - continued

3. Install hardware as shown, after drilling inlet for cord brackets.

Install 810040 flush against Inlet lip

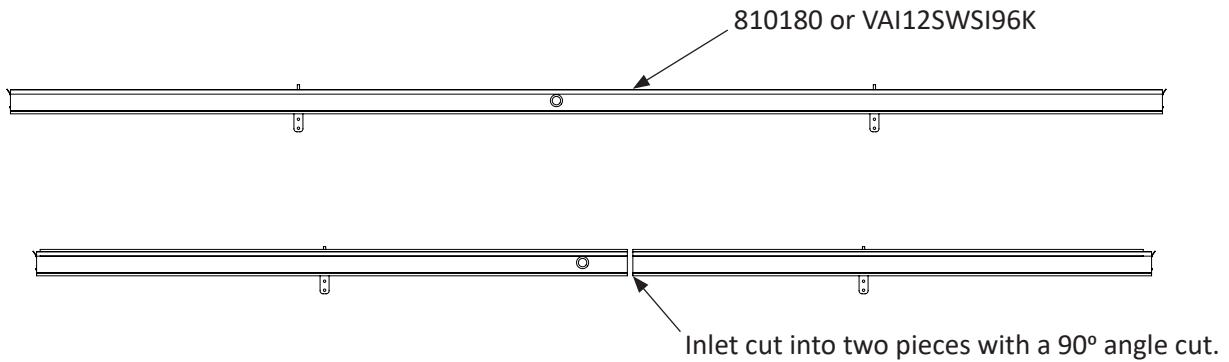


Detail B

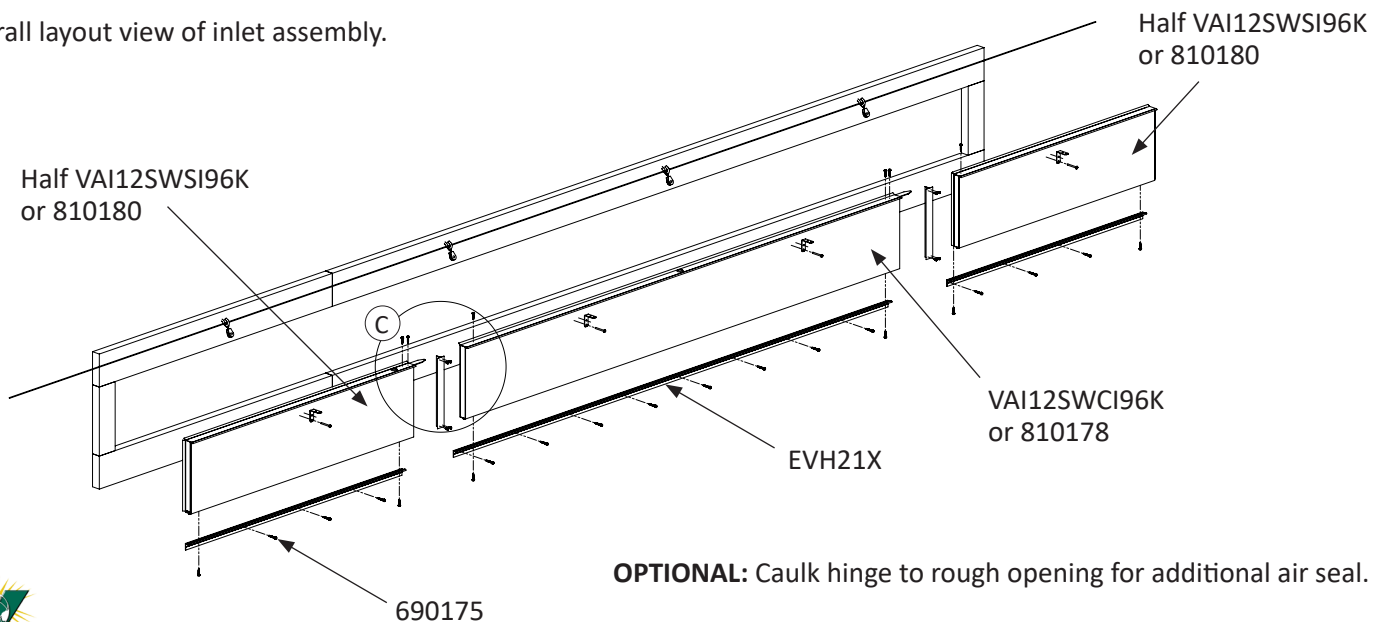
**NOTE:**

For 810170, 810183, and 810185, skip to Step 5 and then Steps 9, 10 & 12 .

4. Cut end inlets (810180 or VAI12SWSI96K) into two pieces with a 90° angle cut.



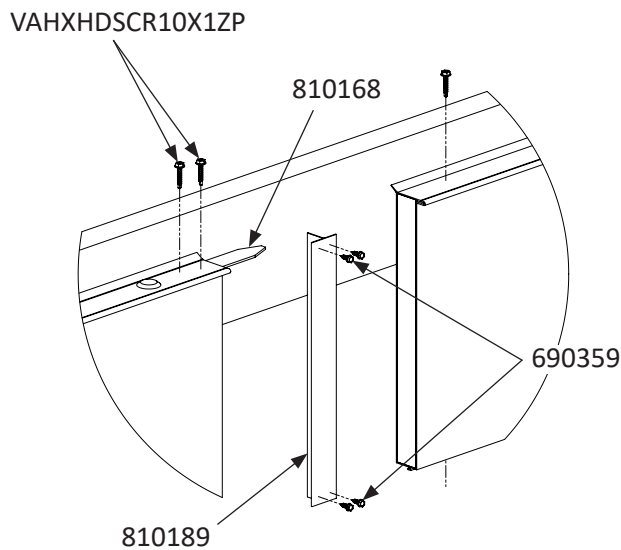
Overall layout view of inlet assembly.



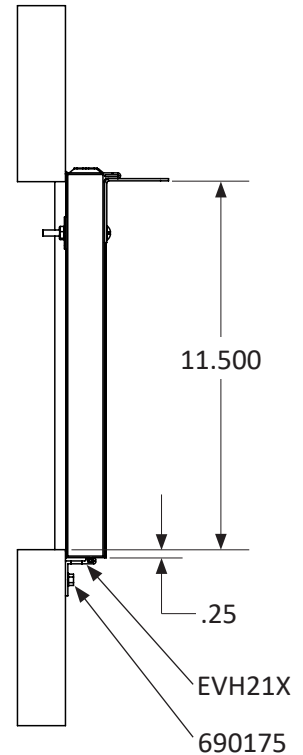
**OPTIONAL:** Caulk hinge to rough opening for additional air seal.

## Inlet Frame Assembly - continued

5. Attach EVH21X hinge to rough opening using 690175 screws (sold separately) at 12" spacing, positioning the inlet 0.25" (6.35mm) below the opening. Position screw using detent in EVH21X hinge.
6. Slide half of 810168 connector into the top of the door and secure with (2) VAHXHDSCR10X1ZP screws.
7. Install (1) 810189 "T" connector to end of door using (2) 690359 screws as shown.

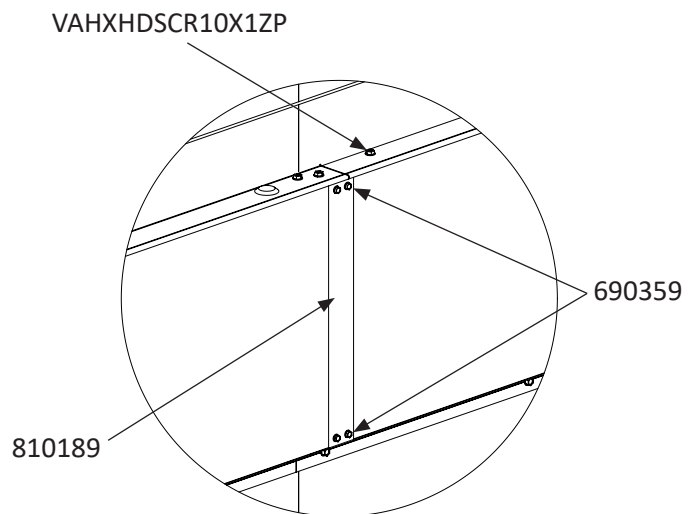


Detail C



8. Slide next door against first door and add one more VAHXHDSCR10X1ZP screw and add in (2) more 690359 screws to "T" connector.

**NOTE:** Stagger hinge seam and door seam by at least 1.5".



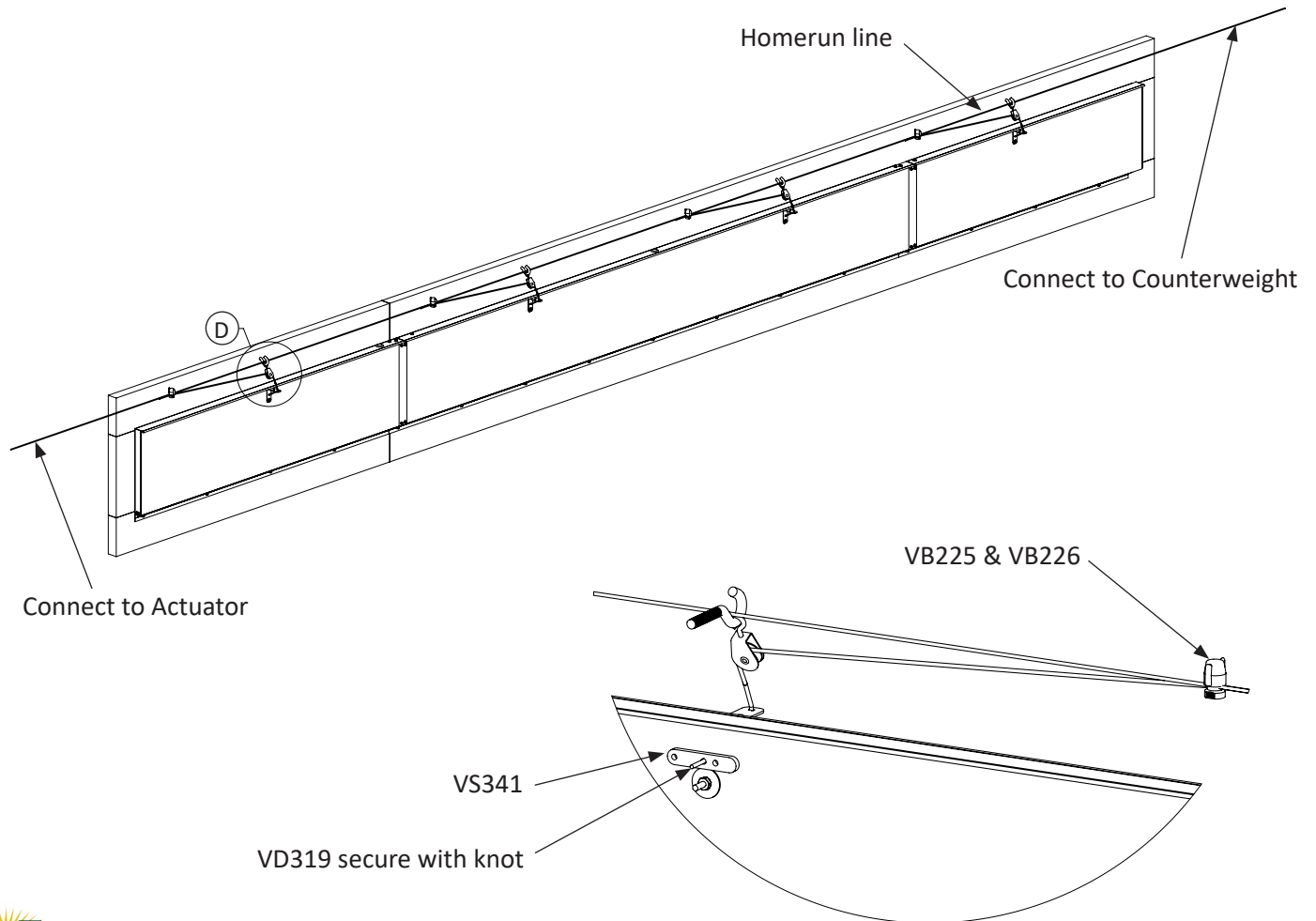
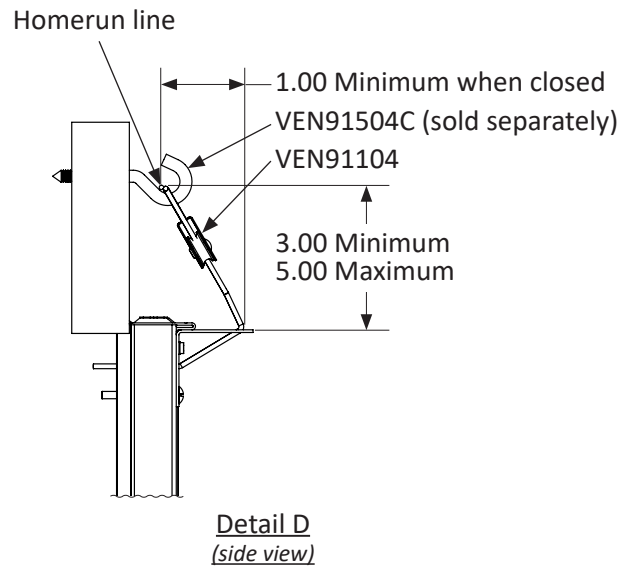
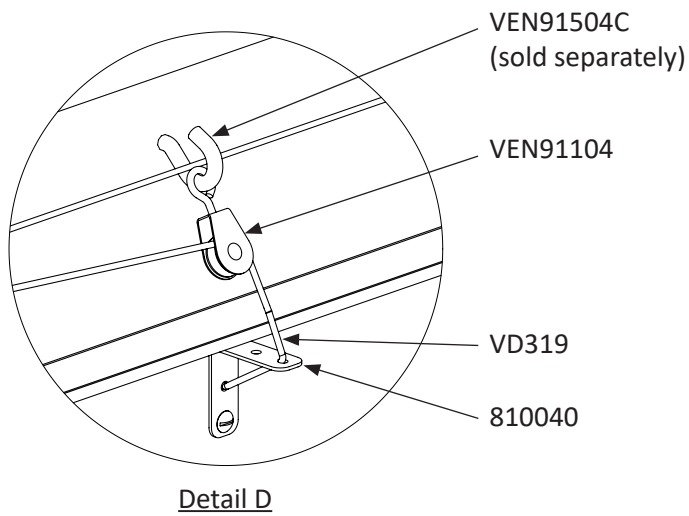
Detail C

(not exploded)

## Inlet Frame Assembly - continued

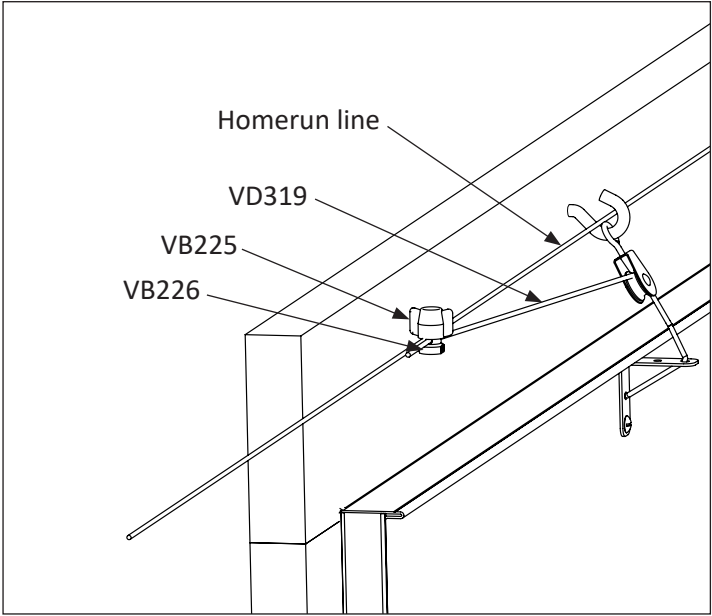
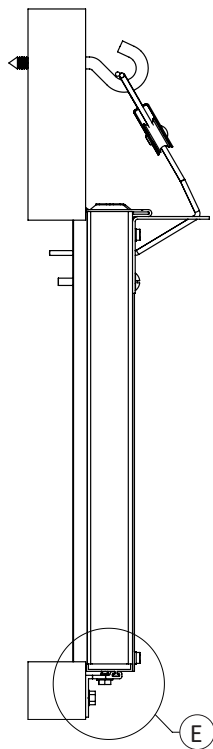
9. Install hooks above each 810040 bracket, This will hold the VEN91104 pulley as well as the homerun line.

10. Route VD319 cord as shown.

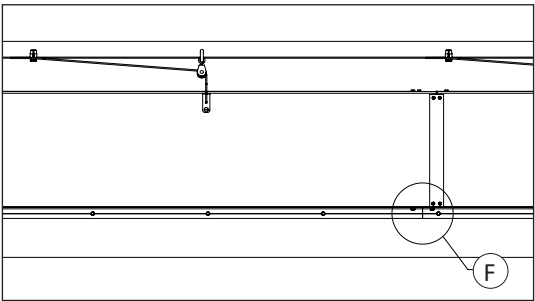
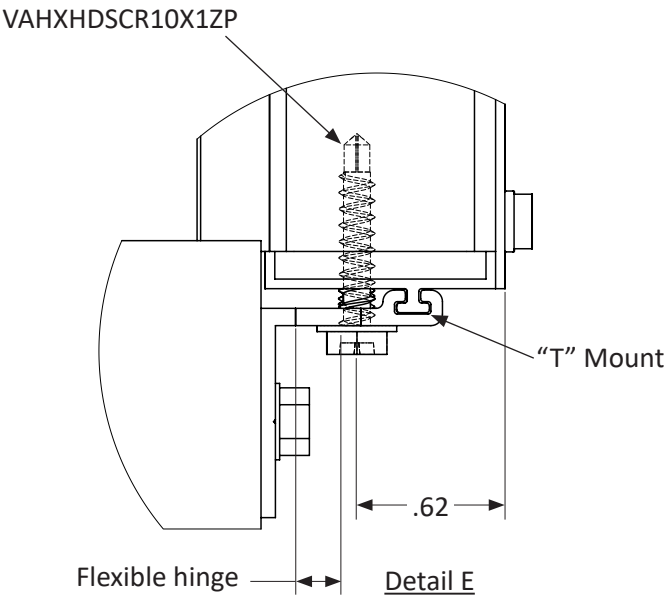
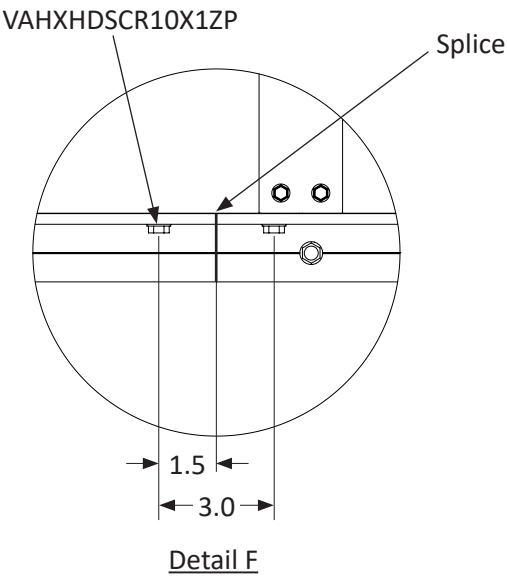


Inlet Frame Assembly - continued

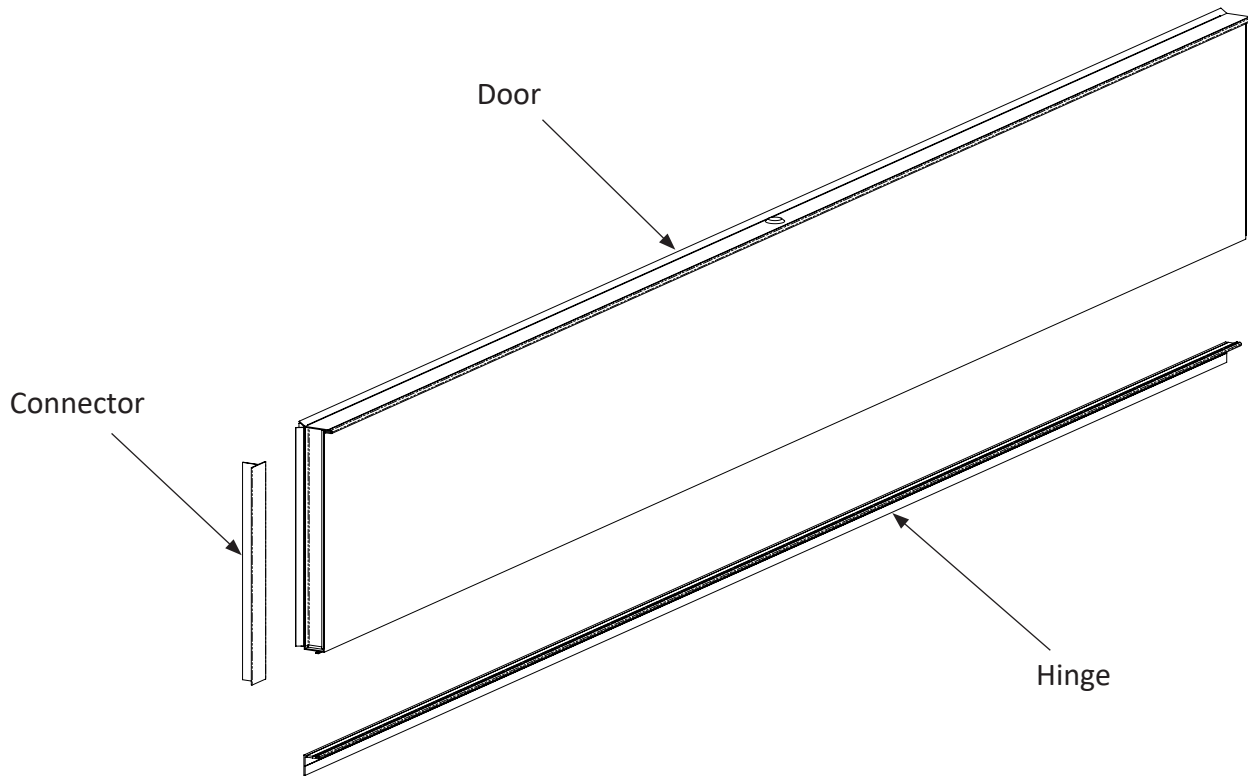
11. Continue pattern until last door, use other half of end inlet to cap the end. May need to cut inlet to length.



12. Slide inlets into final position as required. Secure hinge to inlet using VAHXHDSCR10X1ZP screw. Position screw between flexible hinge and inlet "T" mount.



## Exploded View of Inlet & Common Parts List

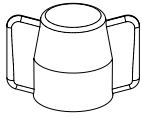


FRAMELESS INLETS				
PART #	INLET TYPE	DOOR	HINGE	CONNECTOR
810171	Discrete	VAI12DOOR48	810172	-
810183	Discrete	810182	810186	-
810185	Discrete	810184	810186	-
810178	Continuous	810052	EVH21X	810189
810180	Continuous	810179	EVH21X	810189
VAI12SWCI96K	Continuous	810050	EVH21X	-
VAI12SWSI96K	Continuous	810051	EVH21X	-

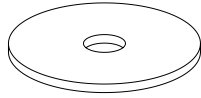
## Hardware - replacement/repair part numbers

*Hardware depicted are not actual size or to scale.*

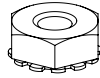
### Hardware used with all Inlets:



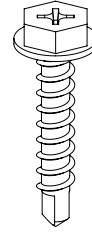
**1/2" Large  
Clamp Nut  
VB225**



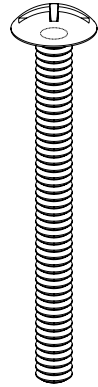
**#10 ID X 1" OD  
Flat Washer  
MH8021**



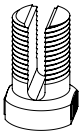
**#10-24 Hex  
Kep Locknut  
012408**



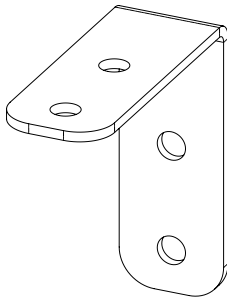
**#10 X 1" Hex Washer Head  
Self-Drilling TEK Screw  
VAHXHDSR10X1ZP**



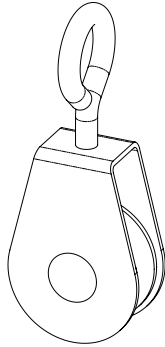
**10-24 X 2"  
Truss Head Screw  
690047**



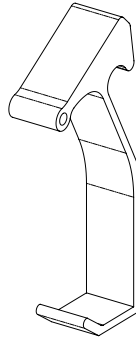
**1/2" Large  
Clamp Bolt  
VB226**



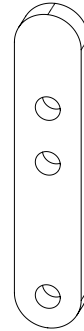
**Galvanized Bracket  
Cord Guide  
810040**



**7/8" Nylon  
Swivel Pulley  
VEN91104**



**Black Plastic  
Vent Latch  
VAIPLATCH  
(only for discrete inlets)**

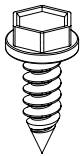


**1/8" Cord  
Adjustment Strap  
VS341**

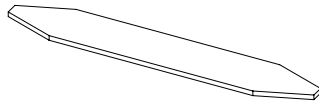


**1/8" Polyester Cord  
Natural Solid Braid  
VD319**

### Hardware used only with Continuous Inlets:



**#7 X 1/2"  
SS Flange Screw  
690359**



**6" Aluminum Connector Strip  
for Continuous Inlet  
810168**

#### North America:

Phone: 800.99VALCO (800.998.2526)

Fax: 419.678.2200

Email: [sales@val-co.com](mailto:sales@val-co.com)

990094

REV D

©2021 Valco Industries, Inc.

#### International:

Phone: (+1) 419.678.8731

Fax: 419.678.2200

Email: [intl.sales@val-co.com](mailto:intl.sales@val-co.com)