



Quick Sheet Instructions

Power-Flo Ceiling Inlet

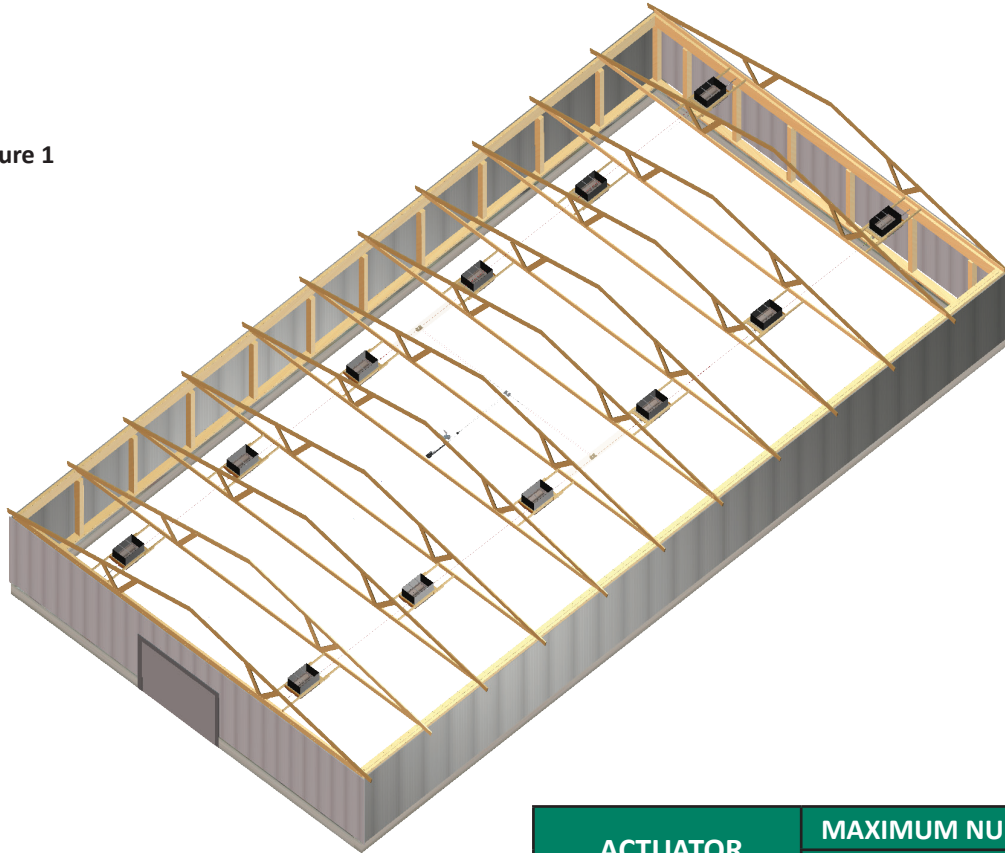
I406P (Model PBF-1400 CFM)

I410P (Model PBF-2700 CFM)

Overview

Cutomer layout must be determined before installing the building ceiling so inlet frames and structural supports for the winching system may be installed. *(Winching components shown may vary according to customer requirements.)*

Figure 1



Tools Required

- Tape Measure
- Level
- Cordless Power Drill/Screw Driver
- Square
- Power Saw
- Open end or adjustable wrenches

Steps for Installation

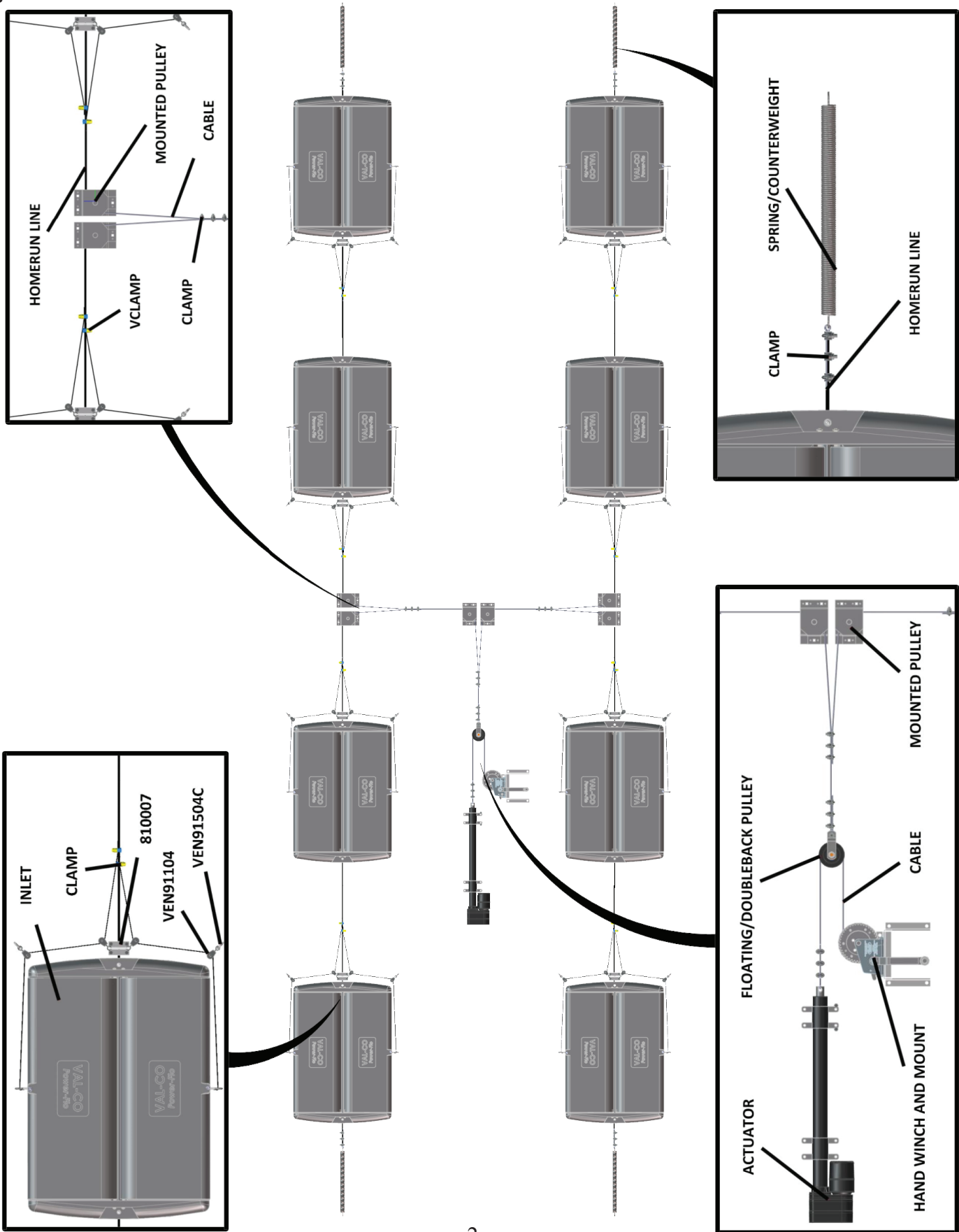
1. Determine Layout
2. Install Framing for Inlet
3. Install structural support for Winching System
4. Install Ceiling
5. Assemble Inlet
6. Install Inlet
7. Install Winch system (at Inlets), 810007 Bracket, Lag Screw Hooks, and Pulleys.
8. Install Winch System including: Pulleys, Actuator (open position), Hand winch, Floating /Doubleback Pulley, and Spring/Counterweight attachments.
9. Install Homerun Line
10. Attach Homerun Line to Spring/Counterweight and to cabling that goes to the actuation/winching system.
11. Close Actuator
12. Install Inlet Cords and attach to Homerun Line.

ACTUATOR CAPACITY	MAXIMUM NUMBER OF INLETS	
	NO DOUBLEBACK	DOUBLEBACK
600 LBS	8	20
800 LBS	12	30
<i>Based on load of 50 LB at each counterweight</i>		

Example Layout (Cutomer layouts may vary)

- 1. Determine and review your layout plans.

Figure 2



Inlet Framing and Installation

2. a) Construct the 2 x 4 Inlet Rough Opening (R.O.) Frame(s), as shown in Figure 3, using the dimensions from the Table to the right. →

MODEL #	DIMENSION "A"	DIMENSION "B"
I406P	16-1/2"	23-1/2"
I410P	21-3/4"	33-1/4"

Figure 3

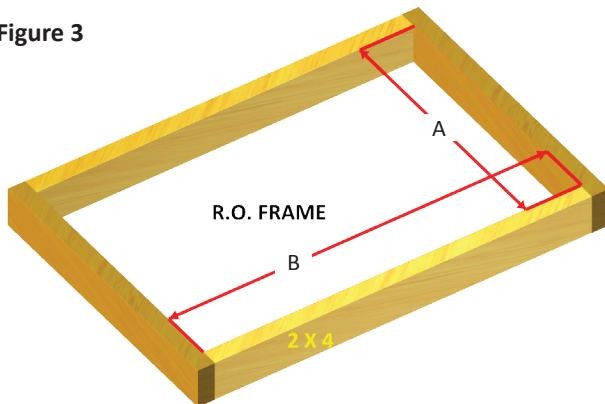
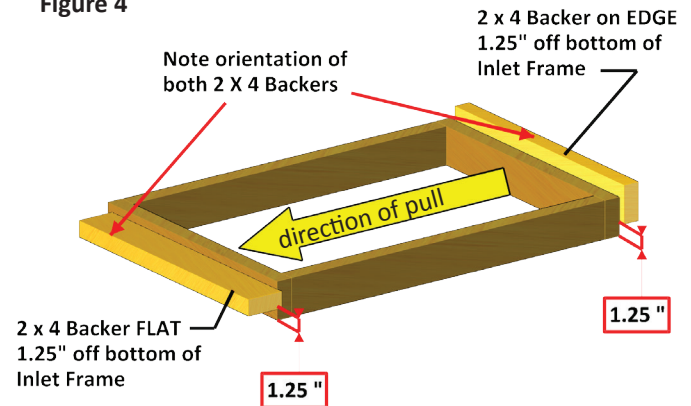


Figure 4



- b) Cut (2) 2 x 4s to outside dimension of Inlet R.O. Frame (short) sides and attach 1.25 inches above the Inlet Frame bottom, as shown in Figure 4.
- c) Attach the R.O. Frame with the Backer boards between (2) 2 x 4 Trimmer(s), as shown in Figure 5.
- d) Attach (2) 2 x 4 X 16 Scab boards, as shown in Figure 5. *Completed Frame shown in Figure 6.*
3. Install the structural supports for all other winching components as determined by customer specific layout.
4. Install building ceiling.

Figure 5

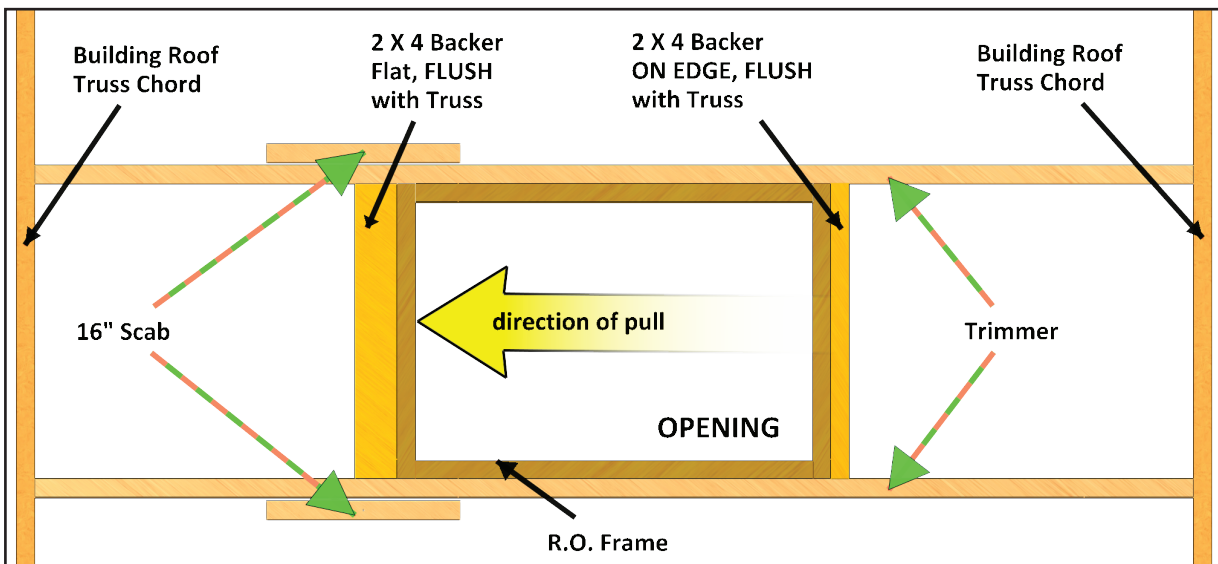
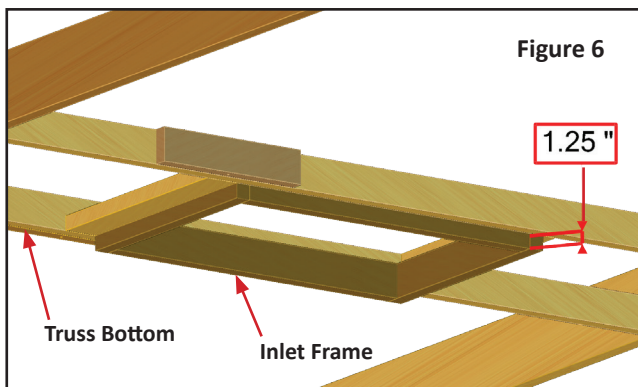


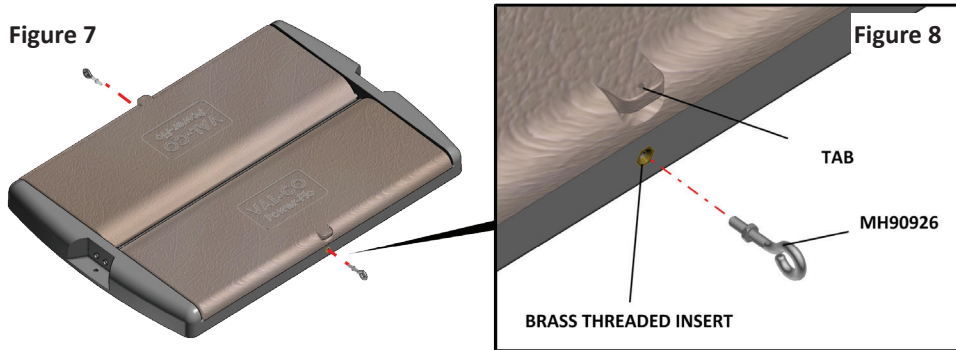
Figure 6



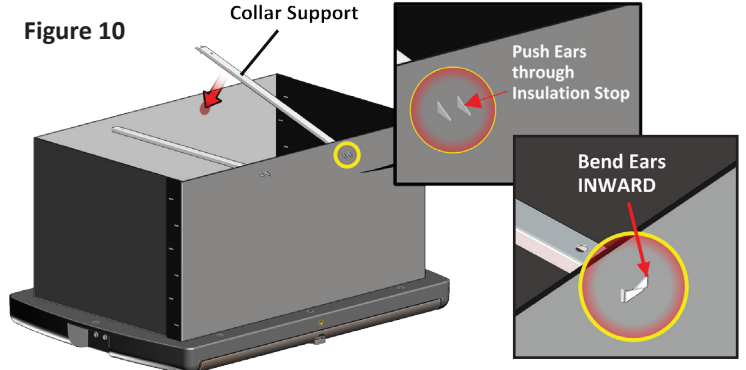
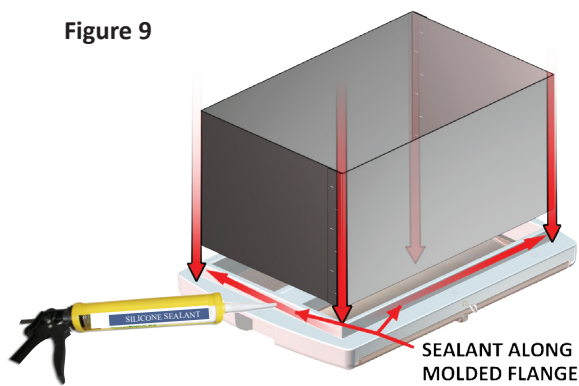
The Power-Flo Inlet R.O. framing (2x4) should be 1.25" below the Truss bottom and the ceiling sheeting backer boards (2x4) should be flush with the Truss bottom, as shown in Figure 6.

Assemble Power-Flo Inlet

5. a) Attach the (2) MH90926 Eye Bolts, (1) into each side of the inlet body, as shown in Figure 7.



- b) Fasten the Insulation Stop (Collar) to the inlet with staples or silicon sealant, as shown in Figure 9.
- c) Insert Collar Support(s) from the inside of the Insulation Stop, evenly spaced, first one side then the other, as shown in Figure 9. Bend the ears inward to secure the support to the sides of the Insulation Stop, as shown in Figure 10. Repeat this for the other Collar Support, if installing I1410P model.




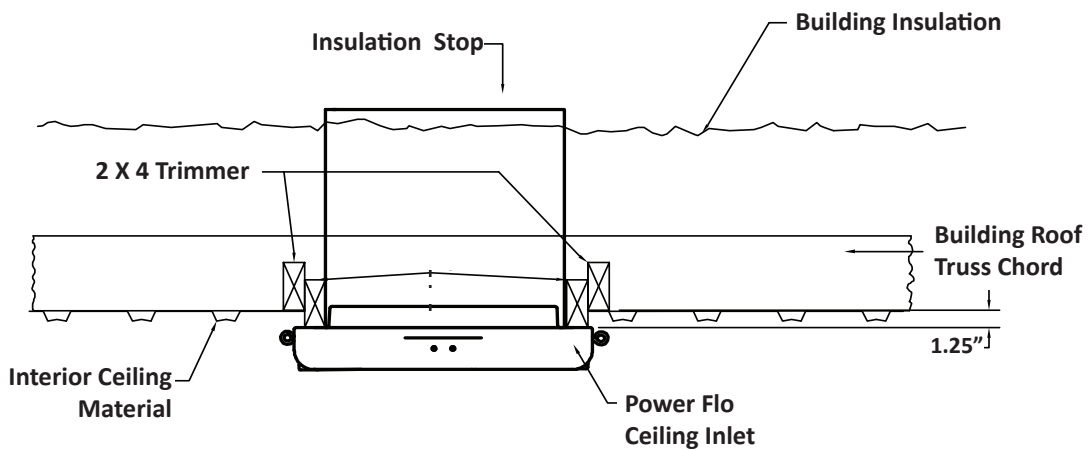
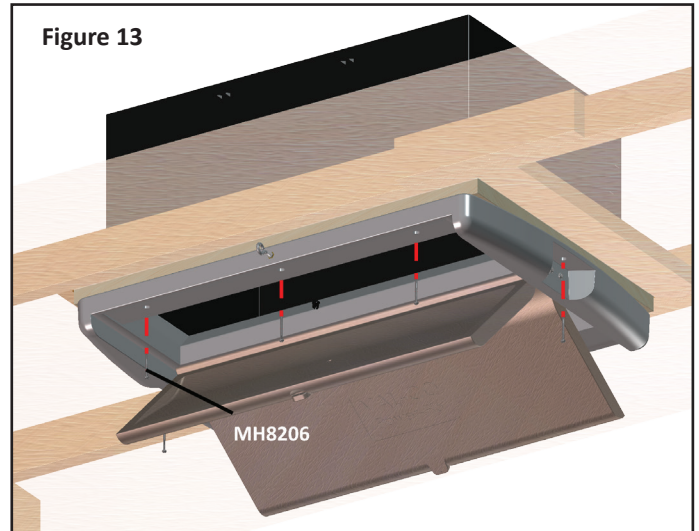
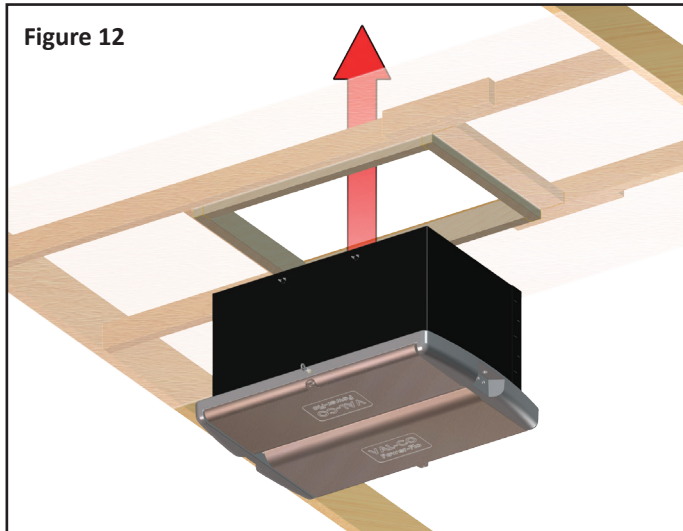
 The I1406P uses one Collar Support and the I1410P uses two Collar Supports which should be evenly spaced on the Insulation Stop.

Figure 11



Installing the Power-Flo Inlet

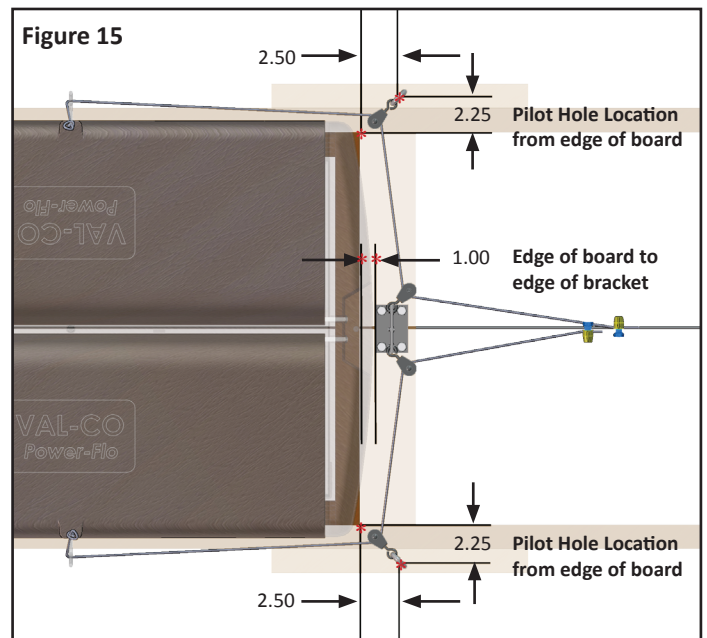
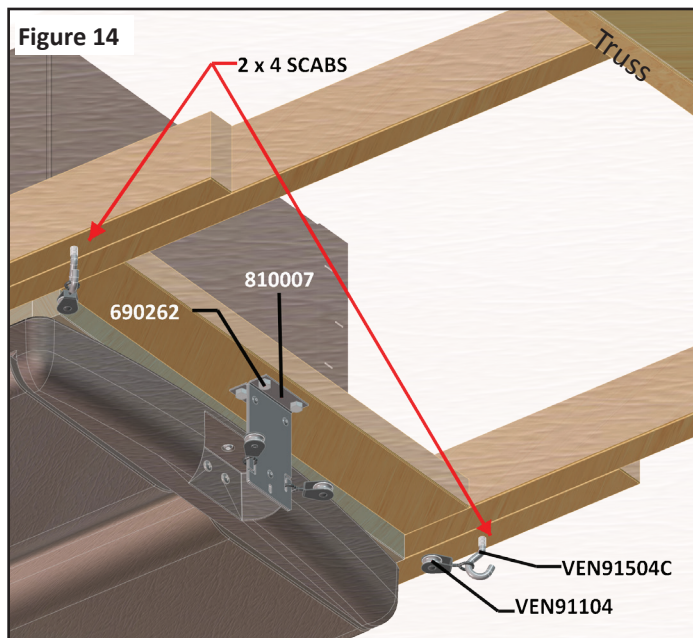
6. a) Insert the Inlet Assembly into the R.O Frame and center about the opening, as shown in Figure 12.
- b) Fasten the inlet to the framing members using (6) MH8206 Screws for I406P and (8) for the I410P model, as shown in Figure 13. **DO NOT OVER TORQUE THE SCREWS. Make sure the inlet is secured in a level position and that the inlet doors operate freely.**



Installing the Winch System

After you have installed each inlet install the 810007 Bracket, 690262 Lag Screws, VEN91504C Hook Screws and VEN91104 Swivel Pulleys used to support the winch system at each inlet, as shown in the next two steps.

7. a) Attach the 810007 SINGLE HRLINE BRACKET ASSY using the 690262 Lag Bolts to the (2x4) Backer above ceiling, as shown in Figure 14. *Note orientation.*
- b) Attach (2) VEN91504C Screw Hooks at each of the two corners of the Inlet toward Homerun line connection, (off to each side of the SINGLE HRLINE BRACKET ASSY) into the ceiling (2x4) Scabs, as shown in Figure 14 and 15, and hook on the VEN91104 SWIVEL PULLEY. **See Example Layout on page 2 for Homerun line attachments.**



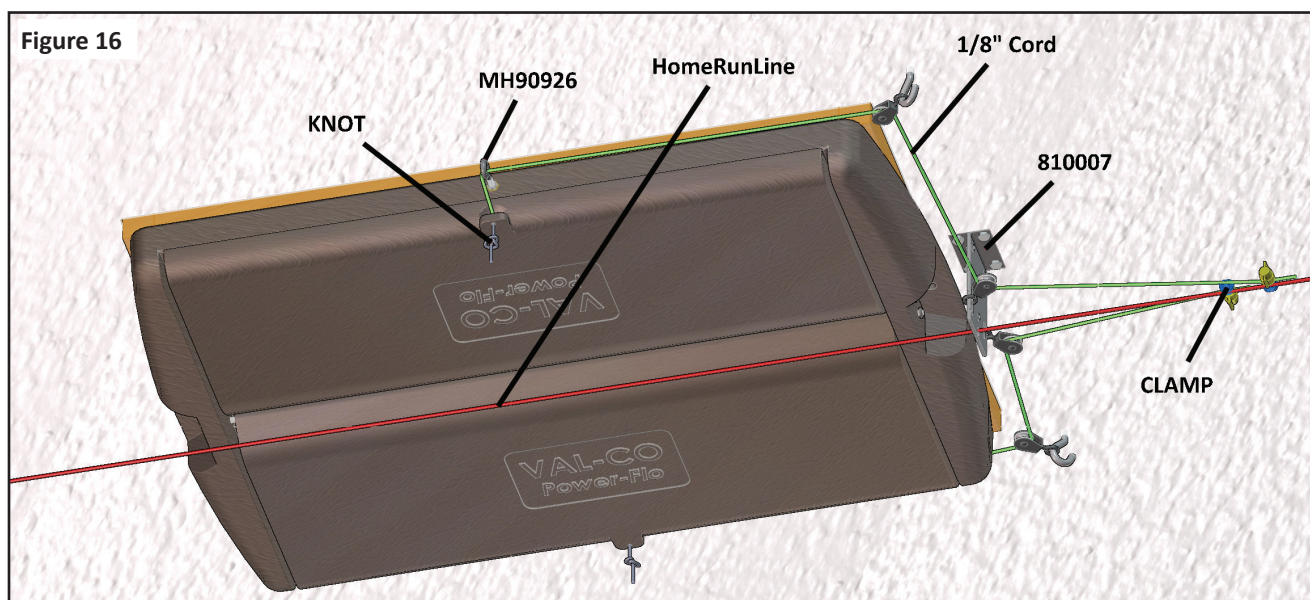
Ceilings are transparent for clarity in the above drawings.



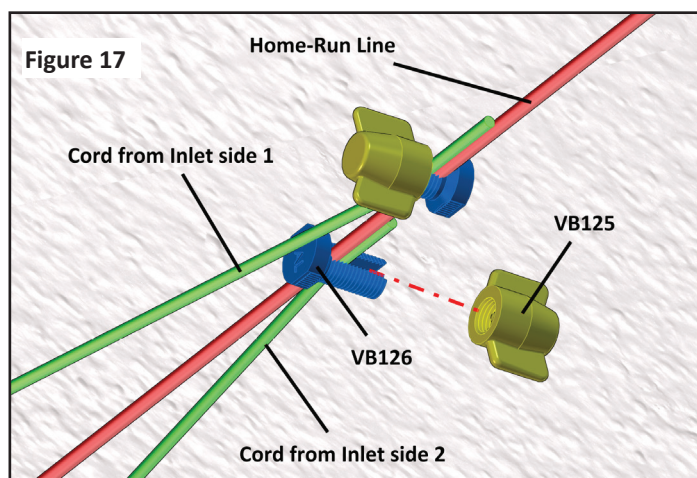
Alignment of the Homerun Line to the Actuator is **CRITICAL** for proper operation!
Refer to Actuator manual for proper installation.

Installing the Winch System - continued

8. Install Winching Pulleys, Actuator (in open position), Handwinch (with several initial cable wraps), Floating/Double-back Pulley, and Spring/Counterweight attachments. **Not shown, installations vary by layout requirements.**
9. For each inlet row, run the Homerun Line through the slot in each 810007 Bracket, as shown in Figure 16.
10. Attach Homerun Line ends to Spring/Counterweight and cabling that goes to actuation/wincing system.
11. After the Homerun lines are attached to the actuation/wincing system, return the actuator to the CLOSED position.
12. a) Starting with the inlets closest to the actuator, thread the inlet cords as shown in figure 16.

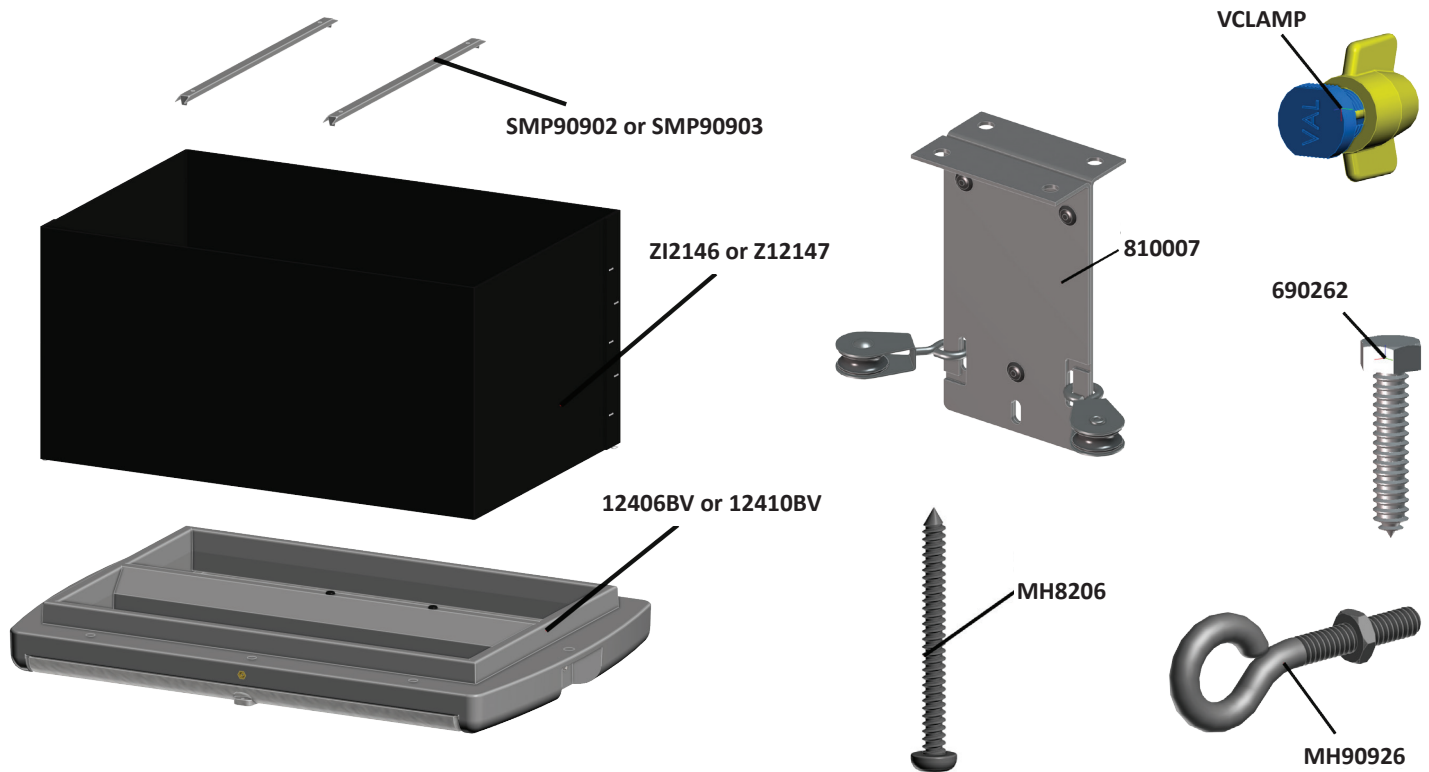


- b) Pull each cord tight (*approximately 5 lbs*) and attach to Homerun Line, (*allowing a minimum of 12" between clamp and nearest pulley*), using CLAMPS and trim excess cord, as shown in Figure 17, below.



Inlet Cords may need adjustment periodically to maintain even actuation.

Parts List



PART #	DESCRIPTION	QTY
I406P		
810007	BRACKET ASSY, SINGLE HRLINE	1
I2406BV	BODY & VALVE INLET 1400 ROTOMOLDED POWER FLO	1
MH94251	HRDW BAG, POWER-FLO INLET	1
SMP90902	COLLAR SUPPORT(BF2400)	1
ZI2146	INSULATION STOP (PF1400) POWER FLO	1
I410P		
810007	BRACKET ASSY, SINGLE HRLINE	1
I2410BV	BODY & VALVE INLET 2700 ROTOMOLDED POWER FLO	1
MH94251	HRDW BAG, POWER-FLO INLET	1
SMP90903	COLLAR SUPPORT (QF-1200)	2
ZI2147	INSULATION STOP (PF2700) POWER FLO	1
MH94251 Hardware Bag		
690262	SCREW, LAG, 5/16" X 1-1/2" HH ZP	4
810001	1/8" X 5FT POLYESTER CORD (<i>not shown</i>)	2
MH8206	SCREW, #10 X 2", PAN H TAP AB SS SQ. DR. SELF TAP AB S.S.	8
MH90926	EYE BOLT 1/4-20X 1-1/2 1/2 ID W NUT STAINLESS STL	2
VCLAMP	CLAMP BOLT BLUE & CLAMP NUT	2
VEN91104	PULLEY, SWIVEL, 7/8" NYLON	2
VEN91504C	SCREW HOOK 5/16" X 3-1/2"	2

North America:

Phone: 800.99VALCO (800.998.2526)

Fax: 419.678.2200

Email: sales@val-co.com

U:\MANUALS\990000\990056

JDS/BAC 1-3-2013

International:

Phone: (+1) 419.678.8731

Fax: (+1) 419.678.2200

Email: intl.sales@val-co.com