

**Executive Order VR-202-T
Assist Phase II EVR System
Including In-Station Diagnostic (ISD) Systems**

**Exhibit 1
EQUIPMENT LIST**

**SECTION I
Part 1 - Equipment List**

Component

Manufacturer/Model

Nozzle

Healy Model 900
(Figures 1-1 and 1-2)

Note: Nozzle can have either a two position or three position hold open clip (see Figure 1-1)

Clean Air Separator

Healy Model 9961 Clean Air Separator
(Figures 1-3 and 1-4)
Healy Model 9961H Clean Air
Separator (Figures 1-3H and 1-4H)

**Inverted Coaxial
Hoses**

Healy Model 75 Series (3/4" I.D.) Low Permeation Hose
(Figure 1-5a)
75W-XXX-YZYZ-LP

Where:

W represents color of hose (varies)

Note: Product label will have an "X" in
this position for all hose colors

XXX represents hose length

First two digits for length in feet

Last digit - length in tenths of foot

Note: Product label will have "XXX" in
this position for hose length

Y represents hose end type

S = Swivel End

F = Fixed End

Z represents thread type

2 = Healy Straight Thread

3 = Metric Thread

4 = Balance-Type Thread

Component**Manufacturer/Model**

Veyance Futura HVR Low Perm Series Hose
(3/4" I.D) (Figure 1-5b)
532-33W-X24-0YYZZ

Where:

W = specifies hose color (varies)

X = specifies fitting combination

2 = S2S2

3 = S3F2

4 = S4F2

5 = F2F2

6 = F3F2

7 = S2F2

8 = S4S2

Y = specifies hose length in feet

Z = specifies hose length in tenths of feet

**Dispenser Conversion
Adaptors (Optional)¹**

Healy Model CX6-A (Required on Gasboy, Global Century,
Reliance and Select Dispensers)

Healy Model CX6-VV1A*

Healy Model CX6-VV2A*

Healy Model CX6-VV3A

EBW Model 303-301-01

(Figures 1-8 and 1-9)

Note: Items marked with asterisk (*) are no longer
manufactured, but may be used for dispenser retrofit.

Reconnectable Breakaway Coupling

Healy Model 8701VV

(Figure 1-10a)

Healy Model 807 Swivel

(Figure 1-10b)

Catlow Model CTMCA (grey cover)

(Figure 1-10c)

VST Model VST-HEVR-SBK

(Figure 1-10d)

Flow Limiter²

Healy Model 1301

(Figures 1-11 and 1-12)

Healy Model 1302

(Figures 1-13 and 1-14)

¹ If optional components are installed or required by regulations of other agencies, the components and model numbers manufactured by Franklin Fueling Systems may be used to facilitate installation. The use of dispenser conversion adaptors not listed above may be used to facilitate installation provided that all applicable performance standards are met.

² Flow limiter is mandatory when the flow rate is greater than 10.0 gallons per minute to comply with US EPA requirement. 1301 is used with 8701VV breakaway. 1302 is used with 807 swivel breakaway.

Component**Manufacturer / Model****Dispenser Vacuum Pump**

Healy Model VP1000 Vacuum Pump
 Healy/Franklin Electric Model VP1000 Vacuum Pump
 (Figure 1-15)

Control Module

Healy Model MC 100
 (Figure 1-16)

Dispensers

Note: Unihose dispensers shall be required unless as provided by Section 4.10 of CP-201.

Gilbarco Encore Series³

Healy Kit VP1000R⁴ or VP1000S⁵

Model#'sDescription:

NAO	Encore 1 Grade Multi-hose
NA1	Encore 2 Grade Multi-hose
NA2	Encore 3 Grade Multi-hose
NA3	Encore 4 Grade Multi-hose
NG0	Encore 3 Grade Single-Hose
NG1	Encore 4 Grade Single-Hose plus 1
NG4	Encore 2 Grade Single-Hose
NJ0	Multi-hose Blender
NJ2	Multi-hose Blender plus
NL0 NL1 NL2 NL3	Encore X+1 Blender
NN0 NN1 NN2 NN3	Encore X+0 Blender

GasBoy 9800 Series (Gilbarco)

Healy Kit VP1000M⁶

Model#'sDescription:

9852 – Suffix1 Suffix2

9853 – Suffix1 Suffix2

Where:

Suffix1 can be:

A = Factory fabrication and assembly
 modifications to chassis

³ Encore Dispensers factory equipped with Healy VP1000 will now have an angled (~13°) outlet casting.

⁴ Kit used to install Healy components in Encore Balance series dispenser. VP1000R previously sold as equivalent to VP1000L.

⁵ Kit used to install Healy components in Encore Assist series dispenser. VP1000S previously sold as equivalent to VP1000K.

⁶ Kit used to install Healy components in GasBoy 9800 series dispenser

Component**Manufacturer / Model**

HC	=	High capacity model
M	=	Manifold supply inlet at the pumping unit inlet
TW1	=	Manifold supply inlet
TW2	=	Two individual supply inlets
X	=	Dispenser supplied by a submersible pump
Q	=	Utilizes an alternate meter and Pump

Suffix2 can be:

B	=	Battery back-up for electronics
C	=	Pump Interface
D	=	DC conduit and junction box
F	=	Fuel filter
G	=	Imperial gallons registration
H	=	High hose retriever
I	=	Internal hose retriever
L	=	Lighted panel
N	=	Equipped to handle a long spout nozzle
P	=	Satellite dispenser as part of the unit (for connection to a master pump)
PP	=	Solenoid valves (optional only on pumps)
R	=	Liters registration
S	=	Piping for connection to satellite
SS	=	Stainless steel panels
SSA	=	Equipped with stainless steel doors
SSTS	=	Stainless steel tops and doors
T	=	Mechanical totalizer
U	=	Submersible drive relays
W	=	Heater
Y	=	Vapor recovery ready
Z	=	Front Load Nozzle
2	=	230 VAC/60hz operation
3	=	230 VAC/60hz operation with 380VAC/60hz motor (available on all models except 9852Q)
25	=	230VAC/50hz operation
35	=	230VAC/50hz operation with 380VAC/50hz motor
4	=	RS-485 interface
5	=	50hz operation
7	=	Electronic totalizer activator on

Component

Manufacturer / Model

9 = both sides
 Provided with 900-R Series
 TopKat

Wayne Harmony Series

Healy Kit VP1000N⁷ or VP1000Q⁸

Model#’s Description:
 prefix/VXXXYZ/suffix

Where:

prefix = Any number or letter
 (with a possible “H” for Harmony)

V = Vista

X = Any digit

Y = D or P
 D = remote dispenser type for
 delivering fuel
 P = suction pump for
 delivering fuel

Z = 1, 3, 4, 5, 6, 7 or 8

suffix = D1 or D2, and any combination of
 number(s) or letter(s)

Wayne Ovation Series

Healy Kit VP1000P⁹

Model#’s Description:
 XYZ/ABC

Where:

X = B or R
 B = Blended Dispenser
 R = Regular Dispenser

Y = Number of hoses per side
 1 = one hose per side
 2 = two hoses per side

Z = Number of inlets per side
 1 = one inlet
 2 = two inlets
 3 = three inlets

A = Number of grades
 1 = one grade
 2 = two grades

⁷ Kit used to install Healy components to Harmony Balance series dispenser

⁸ Kit used to install Healy components to Harmony Assist series dispenser

⁹ Kit used to install Healy components to Ovation Balance or Assist series dispenser. VP1000P previously sold as equivalent to VP1000C.

ComponentManufacturer / Model

		3 = three grades
		4 = four grades
		5 = five grades
B	=	Number of sides
		1 = one side
		2 = two sides
C	=	Number of columns
		1 = one column
		2 = two columns

Wayne Vista Series

Healy Kit VP1000T¹⁰ & VP1000V¹¹

Model#’s Description:
 prefix/VXXXYZ/suffix

Where:

Prefix=		Any number or letter
V	=	Vista
X	=	Any digit
Y	=	D or P
		D = remote dispenser type for delivering fuel
		P = suction pump for delivering fuel
Z	=	1, 3, 4, 5, 6, 7 or 8
Suffix=		D1 or D2, and any combination of number(s) or letter(s)

Wayne Global Century & Select Series¹²

Model#’s Description
 3/GABCDE/Suffix

Where:

A	=	Model Series
		2 = Global Century
		7 = Select
B	=	Cabinet Style
		2 = Column Style
C	=	Flow Rate Capacity
		0 = Standard Flow
		4 = Twin I, Dual Filters

¹⁰ Kit used to install Healy components to 3V and 4V Vista series dispenser. VP1000T previously sold as equivalent to VP1000C.

¹¹ Kit used to install Healy components to 1V and 2V Vista series dispenser. VP1000V previously sold as equivalent to VP1000F.

¹² Dispenser configuration only available for purchase from Dresser Wayne. There is no Kit for retrofit of these dispenser types.

Component

Manufacturer / Model

- D = Number of Hoses & Orientation
 - 1 = Single, Island-Oriented
 - 2 = Twin I, Island-Oriented
 - 3 = Twin II, Island-Oriented
 - 7 = Twin I, Lane-Oriented
OR Single Side,
Lane-Oriented w/ "R"
Suffix
 - 8 = Twin II, Lane-Oriented
- E = Dispenser Type
 - D = Dispenser-Remote
- Suffix = Any combination of letters or numbers

Wayne Reliance Series¹³

Model#'s
/GABCDE/Suffix

Description

Where:

- A = Model Series
 - 5 = Reliance Mechanical
Fleet – Pricing
 - 6 = Reliance Mechanical
Fleet – Volume Only
- B = Cabinet Style
 - 2 = Column Style
- C = Flow Rate Capacity
 - 0 = Standard Flow
- D = Number of Hoses & Orientation
 - 1 = Single, Island-Oriented
 - 2 = Twin I, Island-Oriented
 - 3 = Twin II, Island-Oriented
- E = Dispenser Type
 - D = Dispenser-Remote
- Suffix = Any combination of letters or numbers

¹³ Dispenser configuration only available for purchase from Dresser Wayne. There is no Kit for retrofit of this dispenser type.

Component

Manufacturer / Model

FFS/Healy Universal Retrofit Manual¹⁴

Healy Kits	VP1000A ¹⁵ VP1000D ¹⁶ VP1000G ¹⁷ VP1000H ¹⁸ VP1000J ¹⁹ Z071V ²⁰ Z070E ²¹ Z008 ²² Z009 ²³
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**TABLE 1
Components Exempt from Identification Requirements**

Component Name	Manufacturer	Model Number
Dispenser Kit	Healy	VP1000A & VP1000B VP1000D VP1000G VP1000H VP1000J VP1000M VP1000N VP1000P VP1000Q VP1000R VP1000S VP1000T VP1000V Z008 Z009 Z070E Z071V

¹⁴ Any dispenser not currently listed in Exhibit 1 can be upgraded to Healy EVR using one of the kits listed in this section.

¹⁵ Kit contains Universal Wire Harness for use in any dispenser make or model. For use with any VAC or VDC solenoid valves. VP1000A previously sold as equivalent to VP1000B.

¹⁶ Early Gilbarco Encore 300 Blender Dispensers – 120 VAC valves (mfg. before 04/2003).

¹⁷ Wayne DL Non-Blender Dispensers – 120 VAC valves.

¹⁸ Tokheim Premier C Blender Dispensers – 24 VDC valves.

¹⁹ Early Tokheim Blender Dispensers – Combination 120 VAC & 24 VDC valves.

²⁰ Universal Vapor Kit.

²¹ Universal Electrical Kit.

²² Standard Low Profile Single Hose Dispenser Retrofit Kit.

²³ Standard Low Profile Dual Hose Dispenser Retrofit Kit.

Maintenance Tracker Kit (Optional)

Veeder-Root 330020-546

Consists of the following:

- Maintenance Tracker Technician Key
(Figure 1-17)
- Interface Module RS232/485 Dual Module with
DB9 Converter or Single Port Module with DB-
25 converter
(Figure 1-18)
- Manual

Healy Model 900 EVR Nozzle

FIGURE 1-1
Healy Model 900 EVR Nozzle
(Drawing)

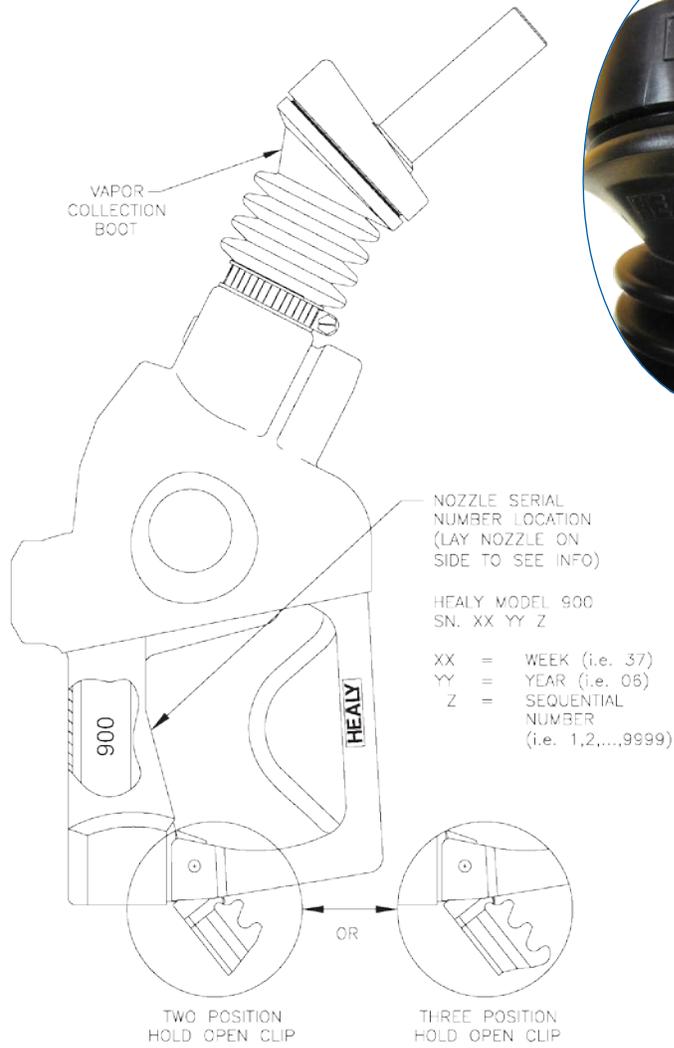


FIGURE 1-2
Healy Model 900 EVR Nozzle
(Image)



FIGURE 1-3
Healy Model 9961 Clean Air Separator

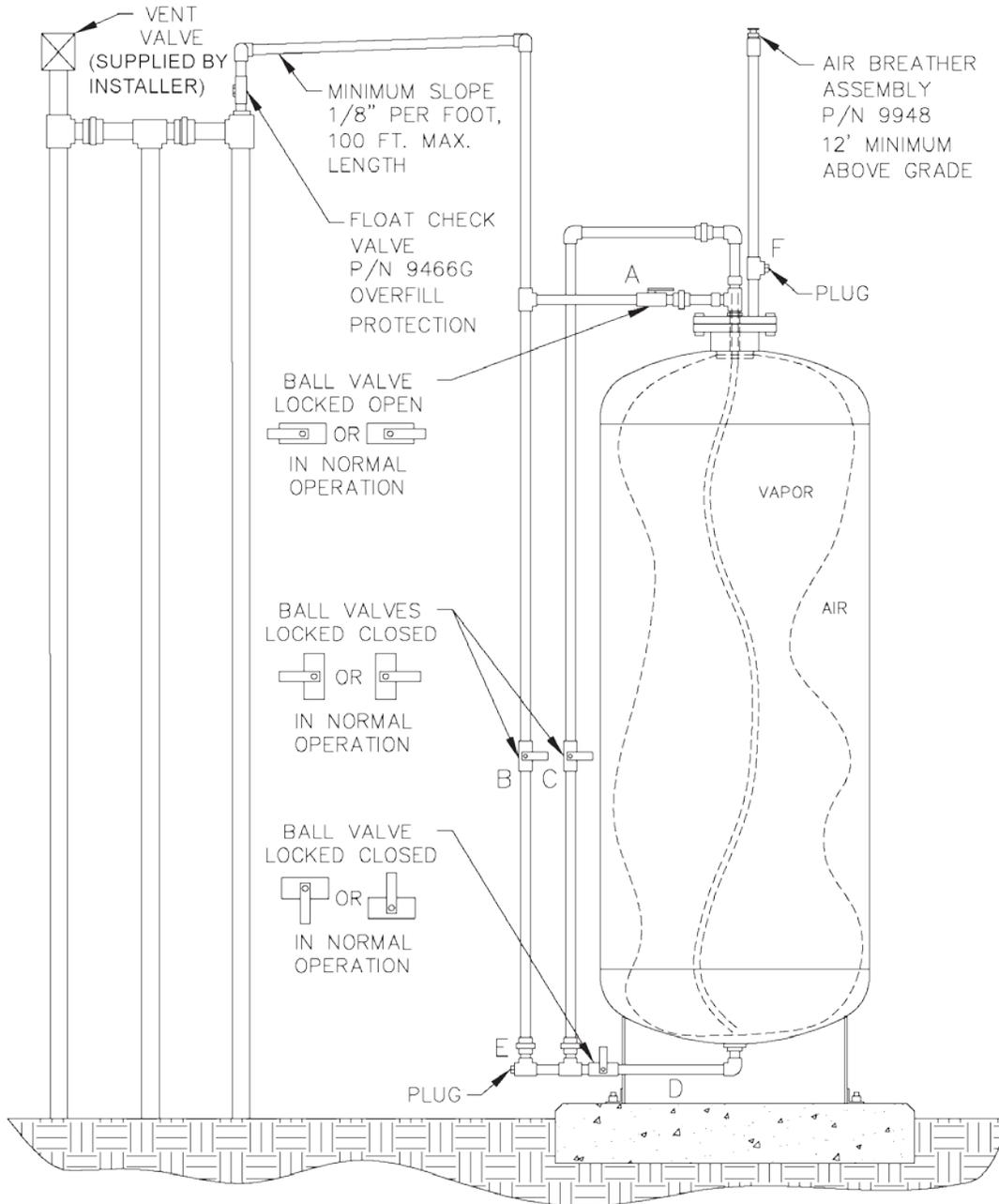


FIGURE 1-3H
Healy Model 9961H Clean Air Separator

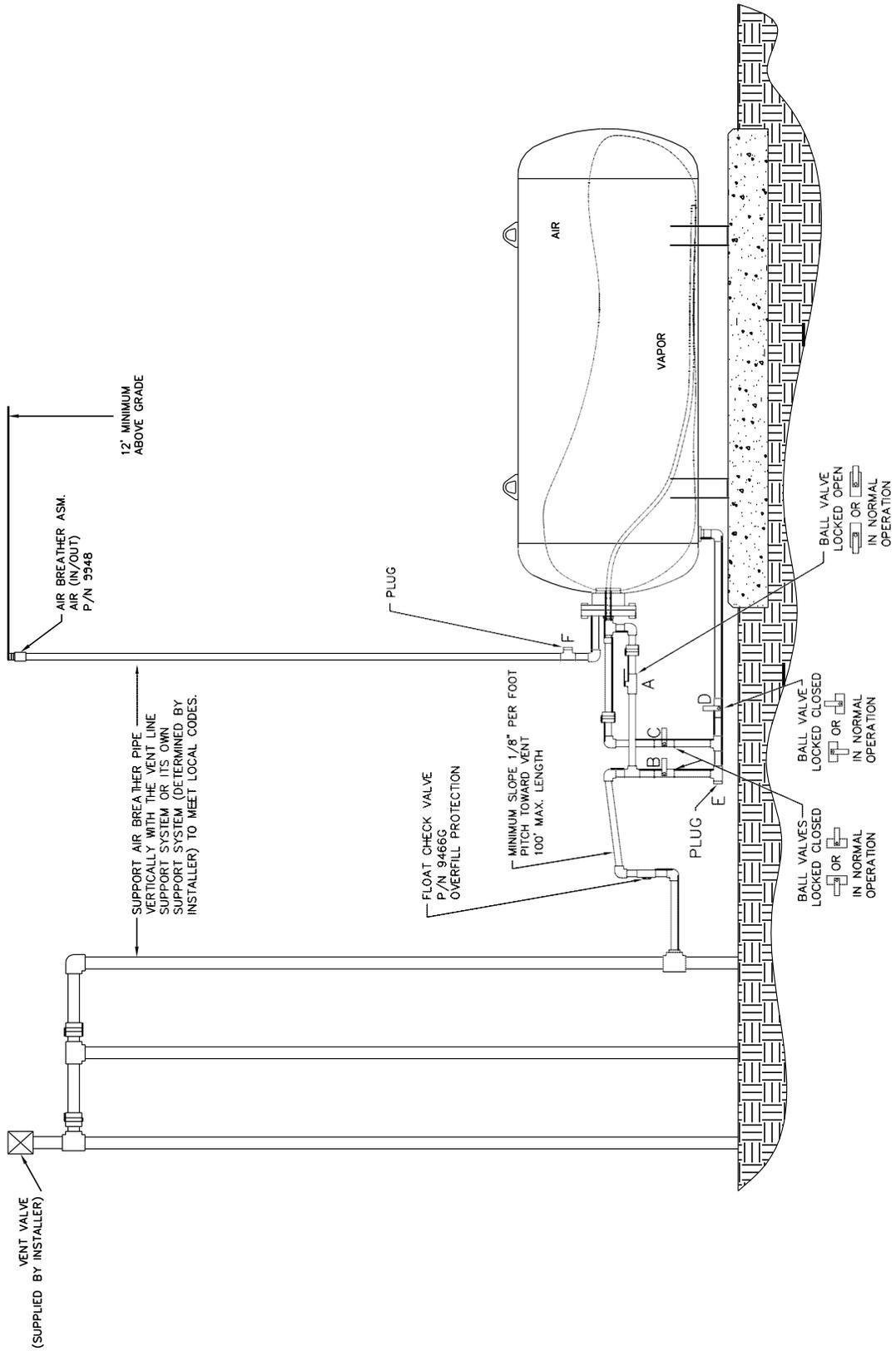
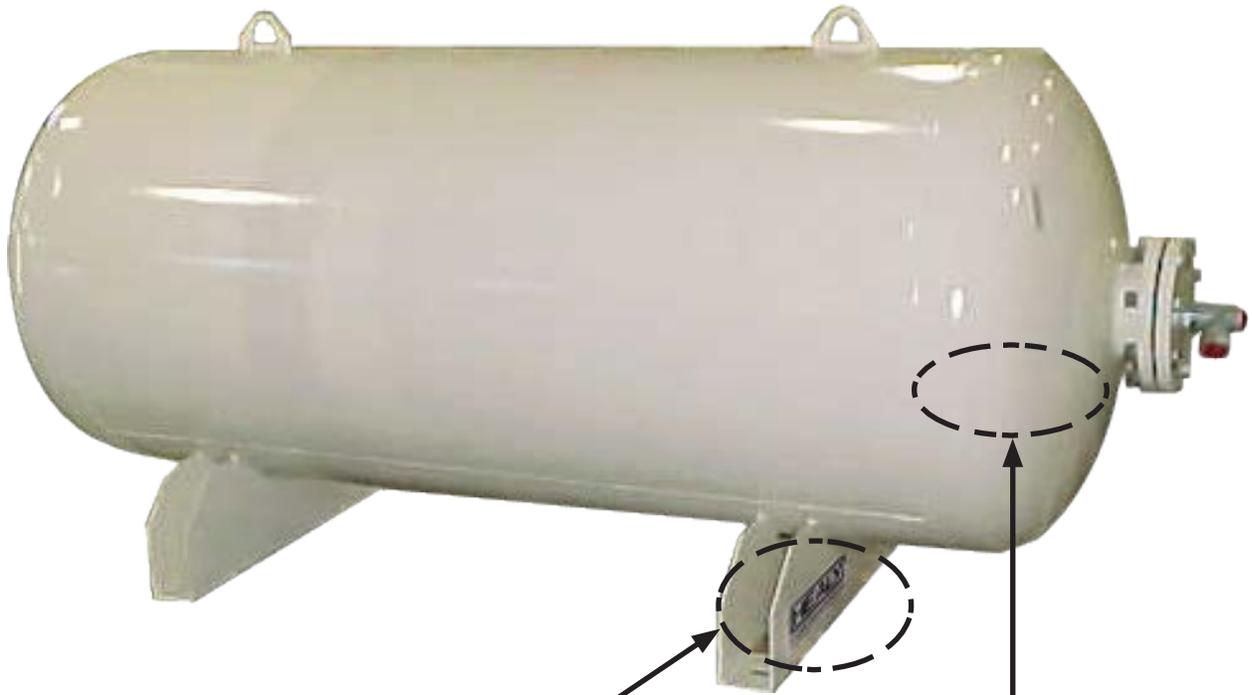


FIGURE 1-4
Healy Model 9961 Clean Air Separator



FIGURE 1-4H
Healy Model 9961-H Clean Air Separator



Clean Air Separator Name Plate

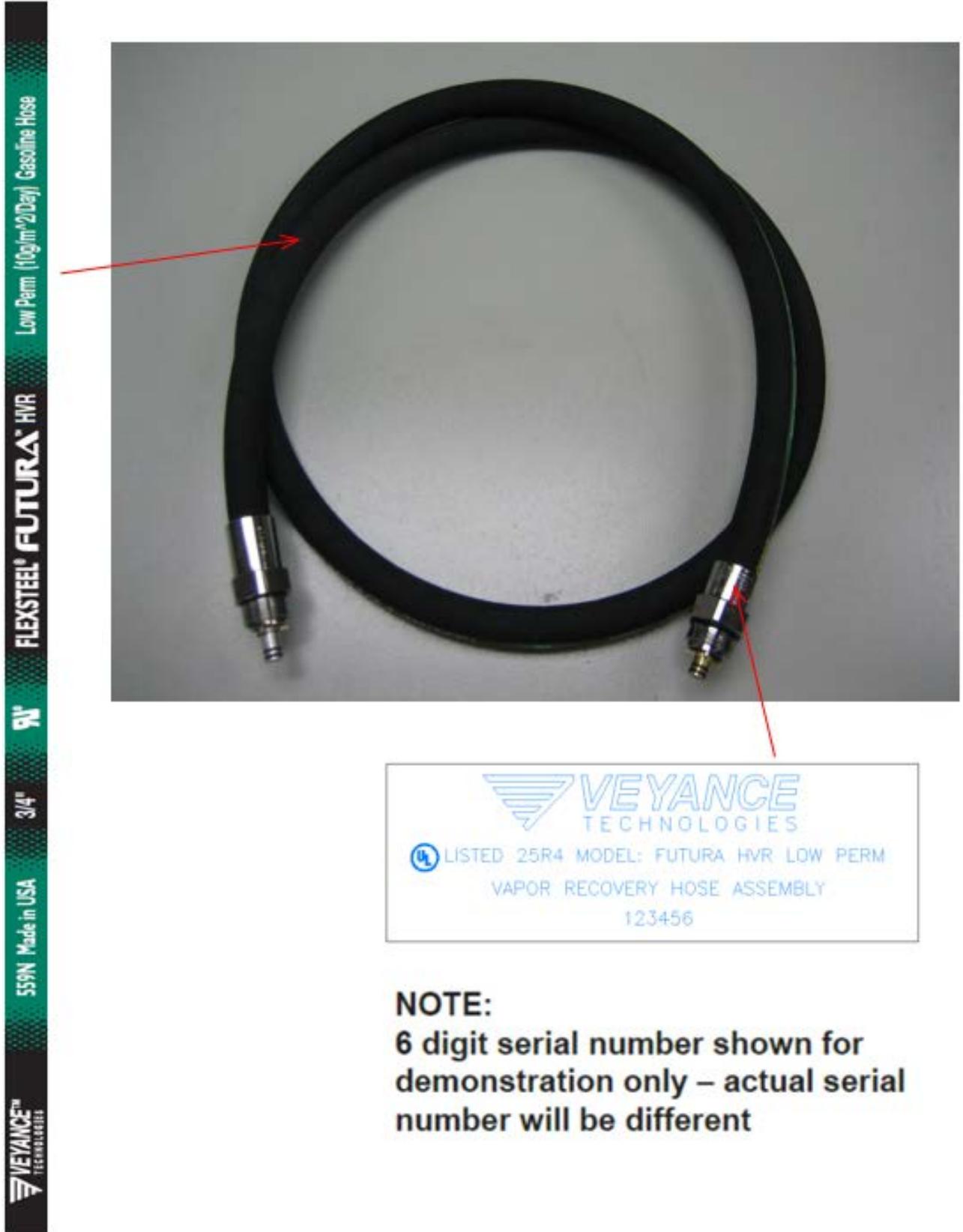


Clean Air Separator Data Plate
(not pictured on far side of base)

Figure 1-5a
Healy Model 75 Series Low Permeation Hose Assembly



Figure 1-5b
Veyance Futura HVR Low Perm Series Hose



NOTE:
6 digit serial number shown for demonstration only – actual serial number will be different

FIGURE 1-6
Hanging Hardware Selection Options
Breakaway and 1301 Flow Limiter

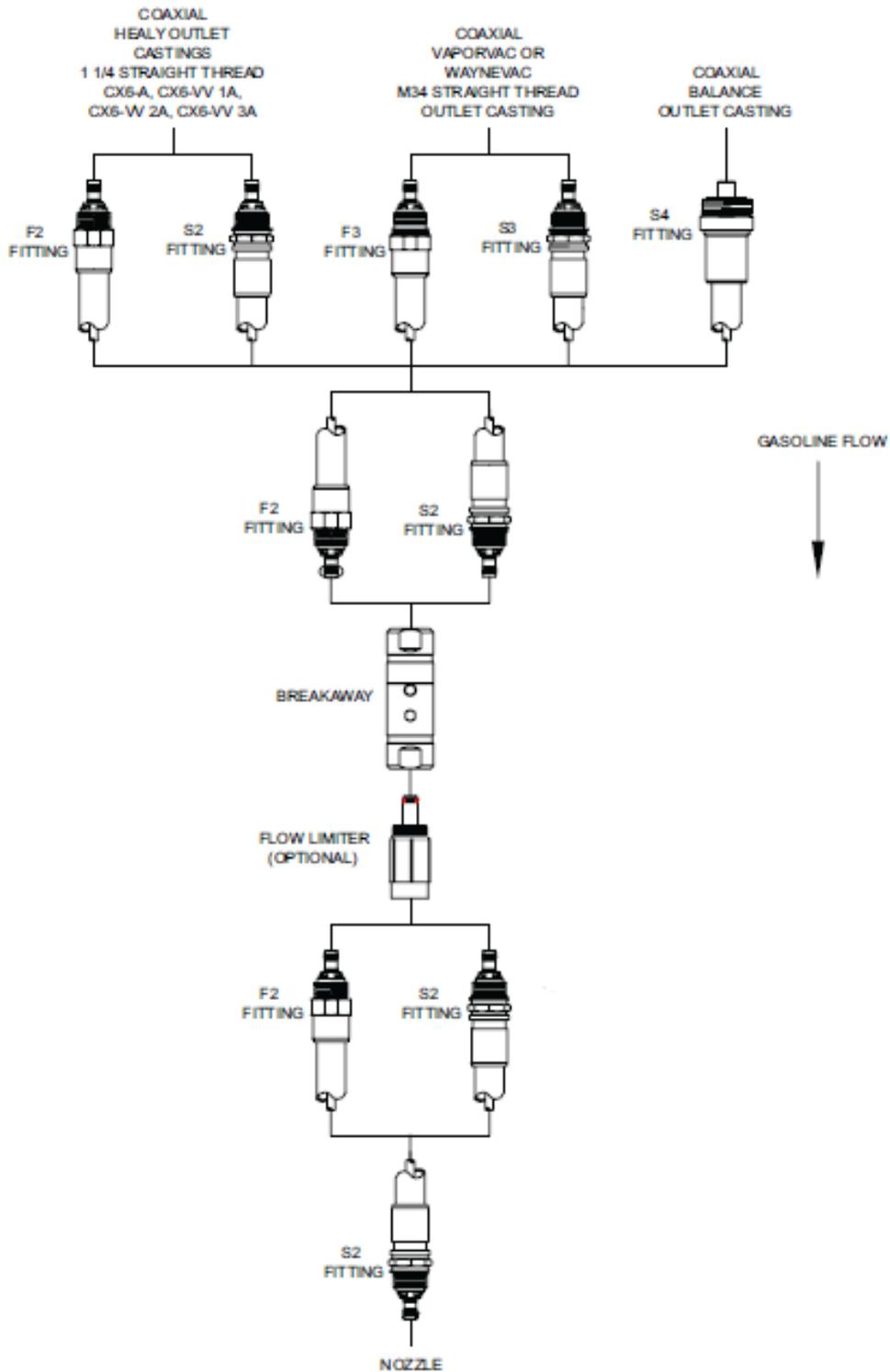
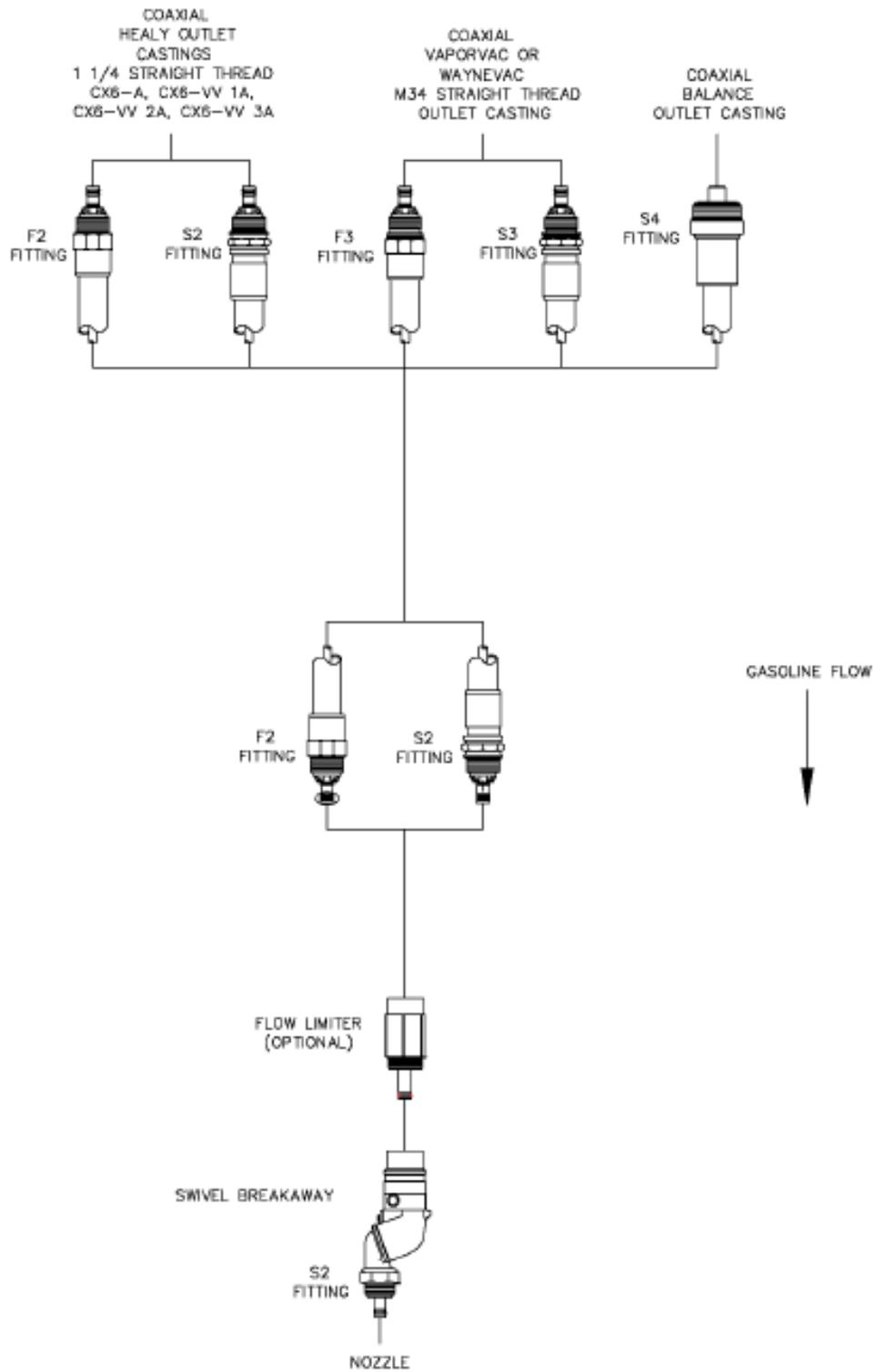


FIGURE 1-7
Hanging Hardware Selection Options
Model 807 Swivel Breakaway and 1302 Flow Limiter



Dispenser Conversion Adaptors

FIGURE 1-8
Healy Model CX6-A



FIGURE 1-8
Healy Model CX6-A



FIGURE 1-8
Healy Model CX6-VV1A

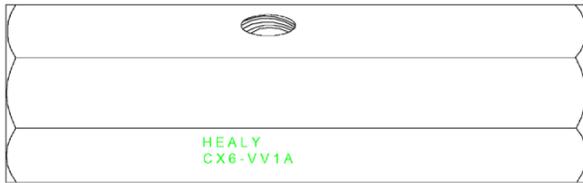


FIGURE 1-8
Healy Model CX6-VV2A



Dispenser Conversion Adaptors

FIGURE 1-9
Healy Model CX6-VV3A

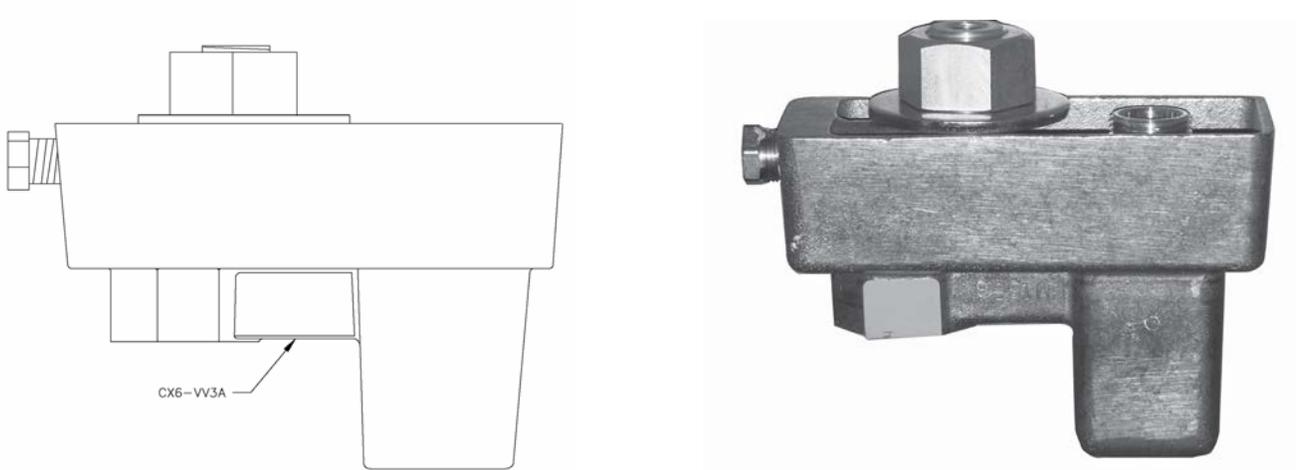


FIGURE 1-9
EBW Model 303-301-01



Healy Model 8701VV Breakaway

FIGURE 1-10a

DECAL
LOCATION

BREAKAWAY COUPLING 8701-VV
VAPOR RECOVERY EMERGENCY BREAKAWAY
COUPLING FOR FLAMABLE LIQUIDS

BREAKS AT NOT MORE THAN 350 LBS.

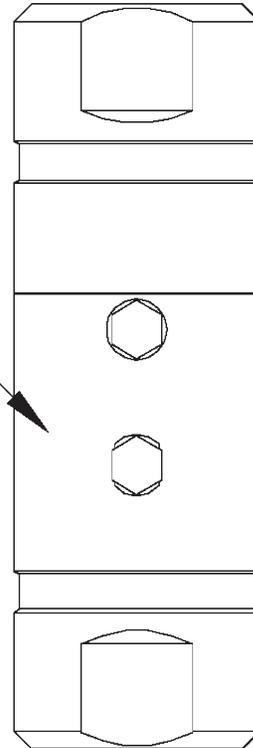
WARNING: SEE INSTRUCTIONS
PRIOR TO INSTALLATION

UL LISTED 9M59

GASOLINE FLOW ↓ SPARE PIN →

HEALY HEALY SYSTEMS INC. HUDSON, N.H.

STRAIGHT THREADS BOTH ENDS
P/N 765 REV F VENDOR ID

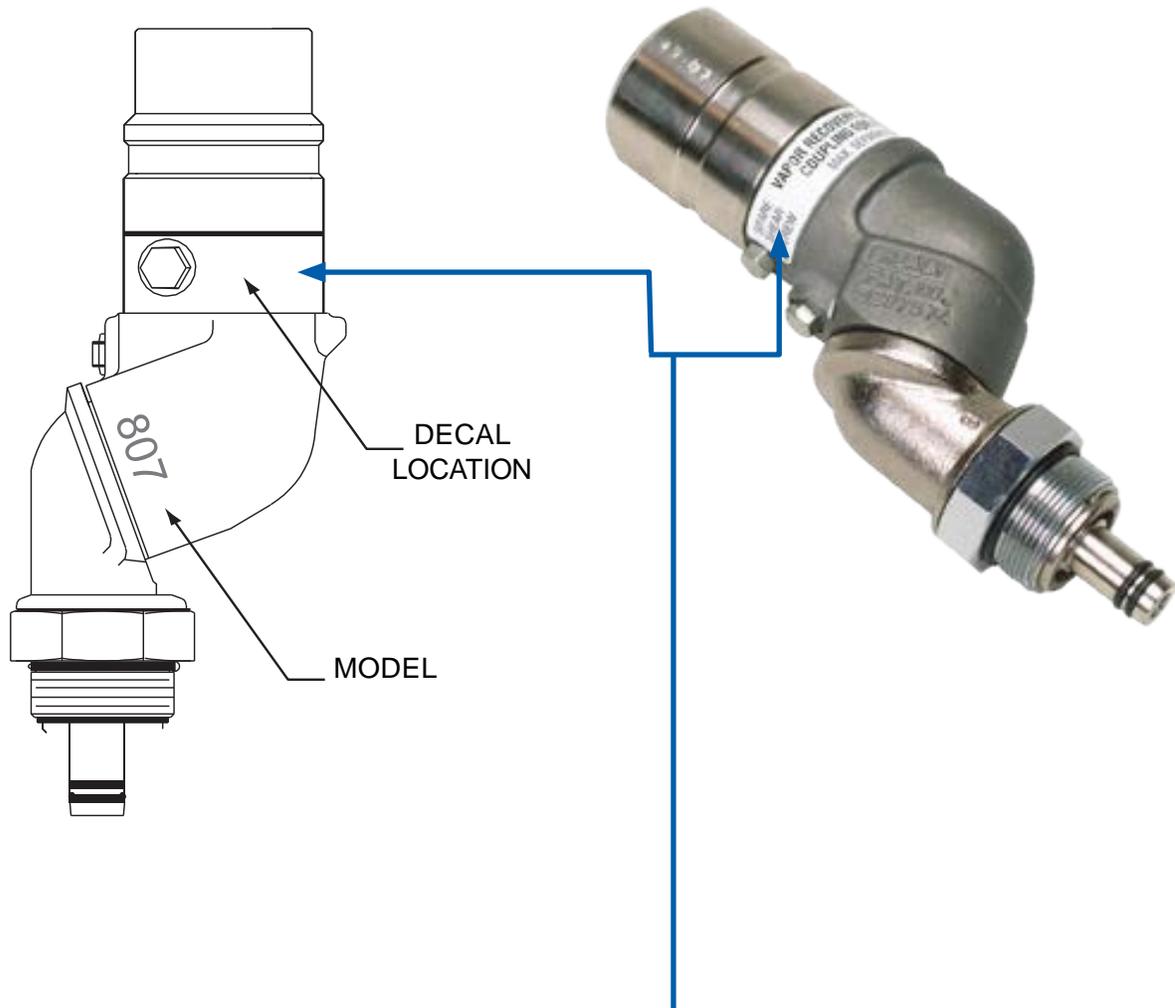


DECAL SHOWN LARGER
FOR READABILITY



Healy Model 807 Swivel Breakaway

FIGURE 1-10b



<p>FLOW ▼</p> <p>STRAIGHT THDS. BOTH ENDS</p>	<p>VAPOR RECOVERY EMERGENCY BREAKAWAY</p> <p>COUPLING FOR FLAMMABLE LIQUIDS</p> <p>MAX. SEPARATION FORCE 350#</p> <p><small>FRANKLIN FUELING SYSTEMS MADISON WI</small></p>	<p>UL MODEL</p> <p>LISTED 9M59 807</p>	<p>SPARE</p> <p>SHEAR</p> <p>SCREW ▼</p> <p>LBL P/N 893</p>
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<p>FLOW ▼</p> <p>STRAIGHT THDS. BOTH ENDS</p>	<p>VAPOR RECOVERY EMERGENCY BREAKAWAY</p> <p>COUPLING FOR FLAMMABLE LIQUIDS</p> <p>MAX. SEPARATION FORCE 350#</p>	<p>UL MODEL</p> <p>LISTED 9M59 807</p> <p><small>Healy Systems Inc. Hudson, N.H. 03051</small></p>	<p>SPARE</p> <p>SHEAR</p> <p>SCREW ▼</p> <p>LBL P/N 893</p>
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DECALS SHOWN LARGER FOR READABILITY

EITHER LABEL MAY APPLY

Catlow Model CTMCA Breakaway

FIGURE 1-10c



M3418 Adaptor and Ferrule (2 Places)



VST Model VST-HEVR-SBK Breakaway

FIGURE 1-10d



FIGURE 1-11
Healy Model 1301 Flow Limiter

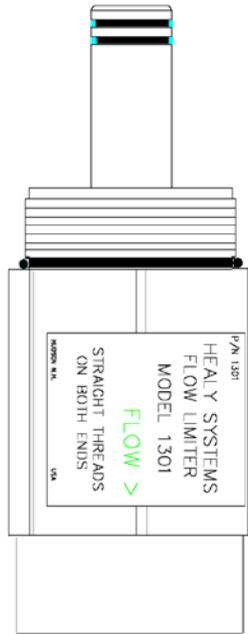


FIGURE 1-12
Healy Model 1301 Flow Limiter



FIGURE 1-13
Healy Model 1302 Flow Limiter

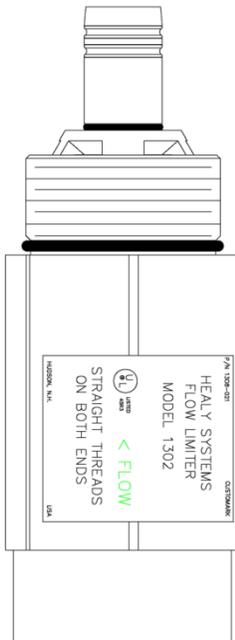


FIGURE 1-14
Healy Model 1302 Flow Limiter



FIGURE 1-15
Healy Model VP1000 Vacuum Pump

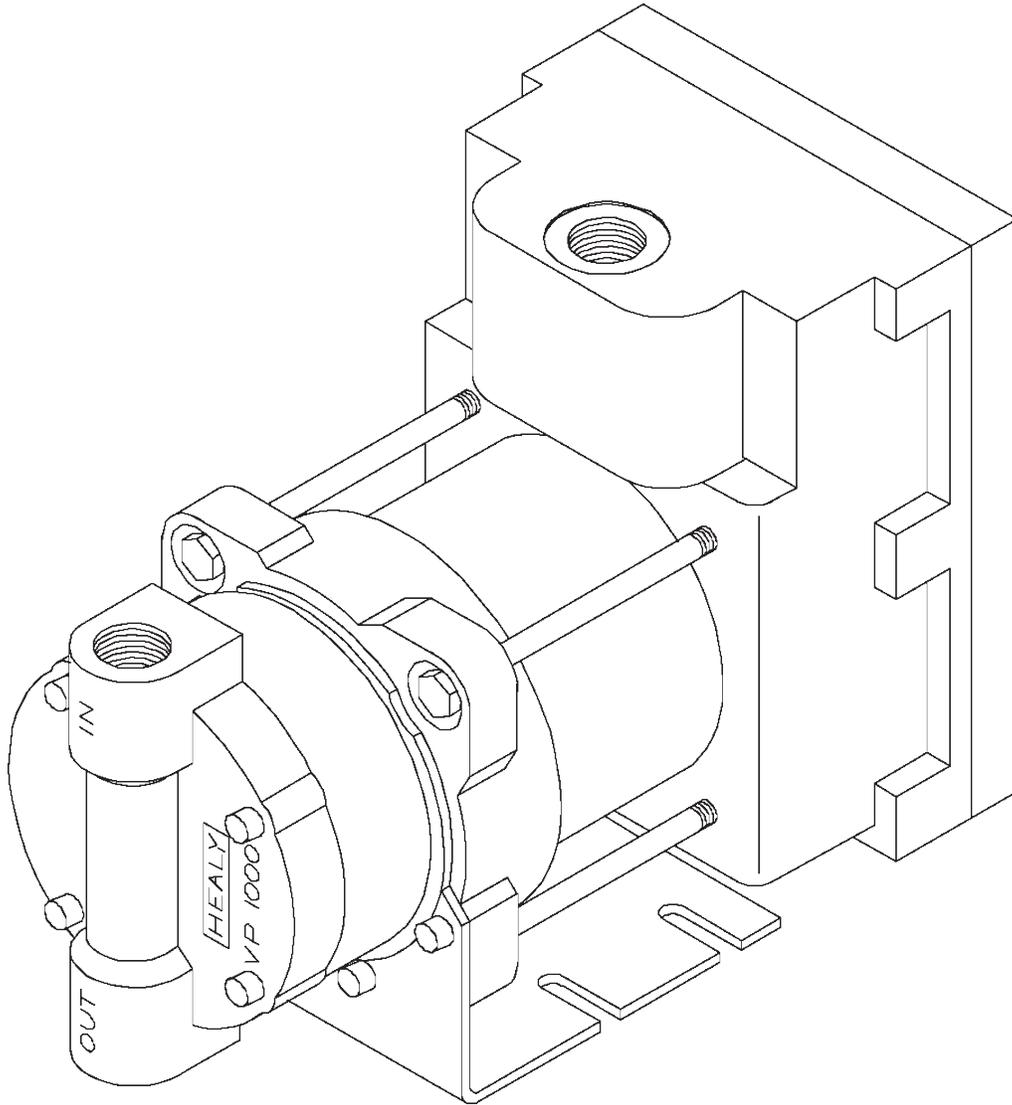


FIGURE 1-16
MC 100 Control Module

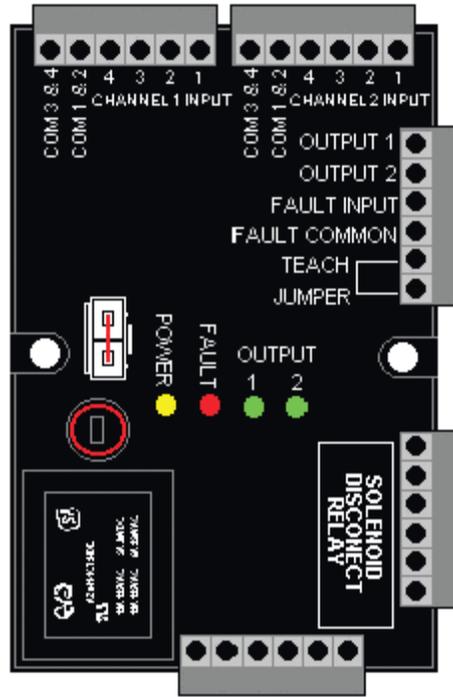


FIGURE 1-17
Maintenance Tracker Technician Key

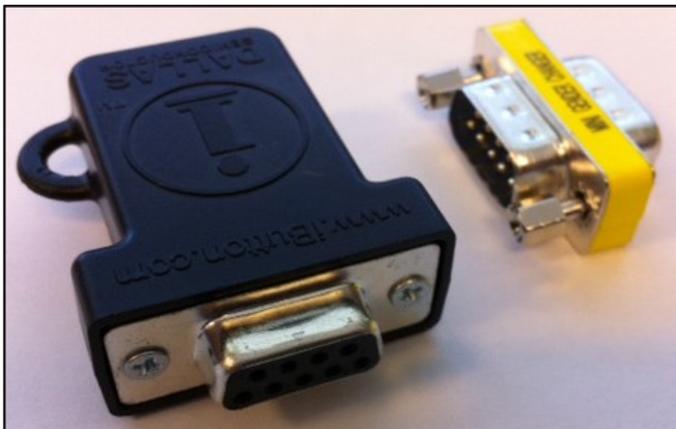
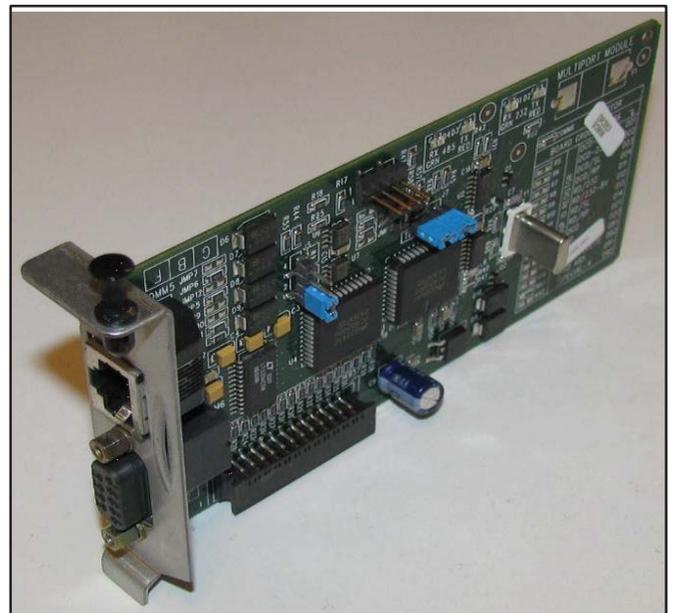


FIGURE 1-18
Interface Module RS232/485
Dual Module with DB9 Converter or
Single Port Module with DB-25 converter



**Part 2 - Vapor Equipment List for Liquid Condensate Trap
Figures 1A-LCT-1 and 1A-LCT-2**

<u>Component</u>	<u>Manufacturer/Model</u>
Riser Adapter	INCON model TSP-K2A
In-Line Filter	140 micron, Swagelok B-4F2-140 or SS-4F2-140, or equivalent
Screen	Aluminum Insect screen (18X14 mesh), or Stainless Steel Insect screen (18X18 mesh).
Stainless Steel Hose Clamp	Sized to secure screen to suction tube.
Liquid Sensor ¹	Must have an audible and visual alarm
Liquid Condensate Trap¹	Any capacity, manufacturer, make and model

¹ Must meet applicable State Water Resources Control Board requirements (e.g. LG-113, LG-167 and LG-169) and any local authority having jurisdiction which includes the Certified Unified Program Agency (CUPA).

FIGURE 1A-LCT-1
Typical Liquid Condensate Trap Installed Below the Transition Sump

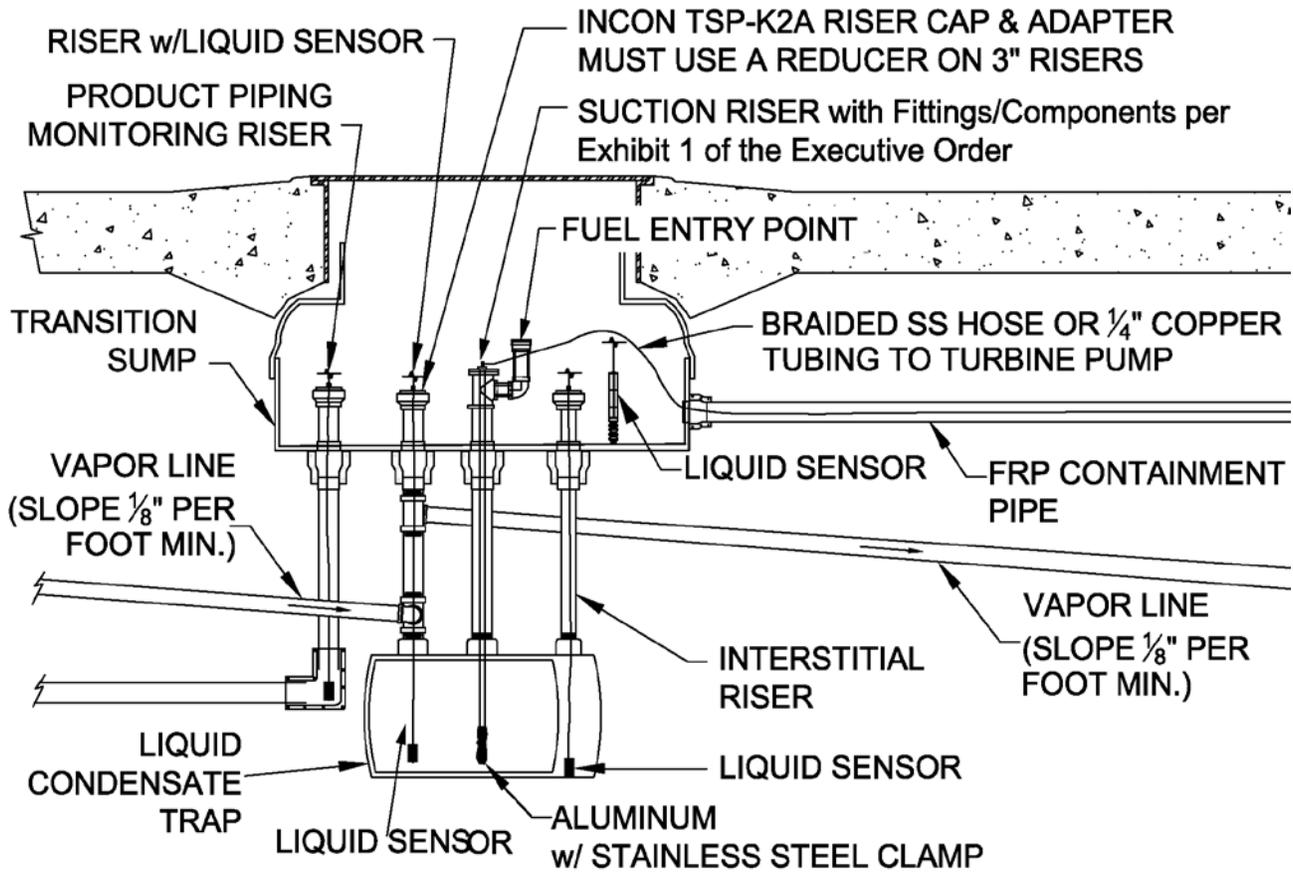
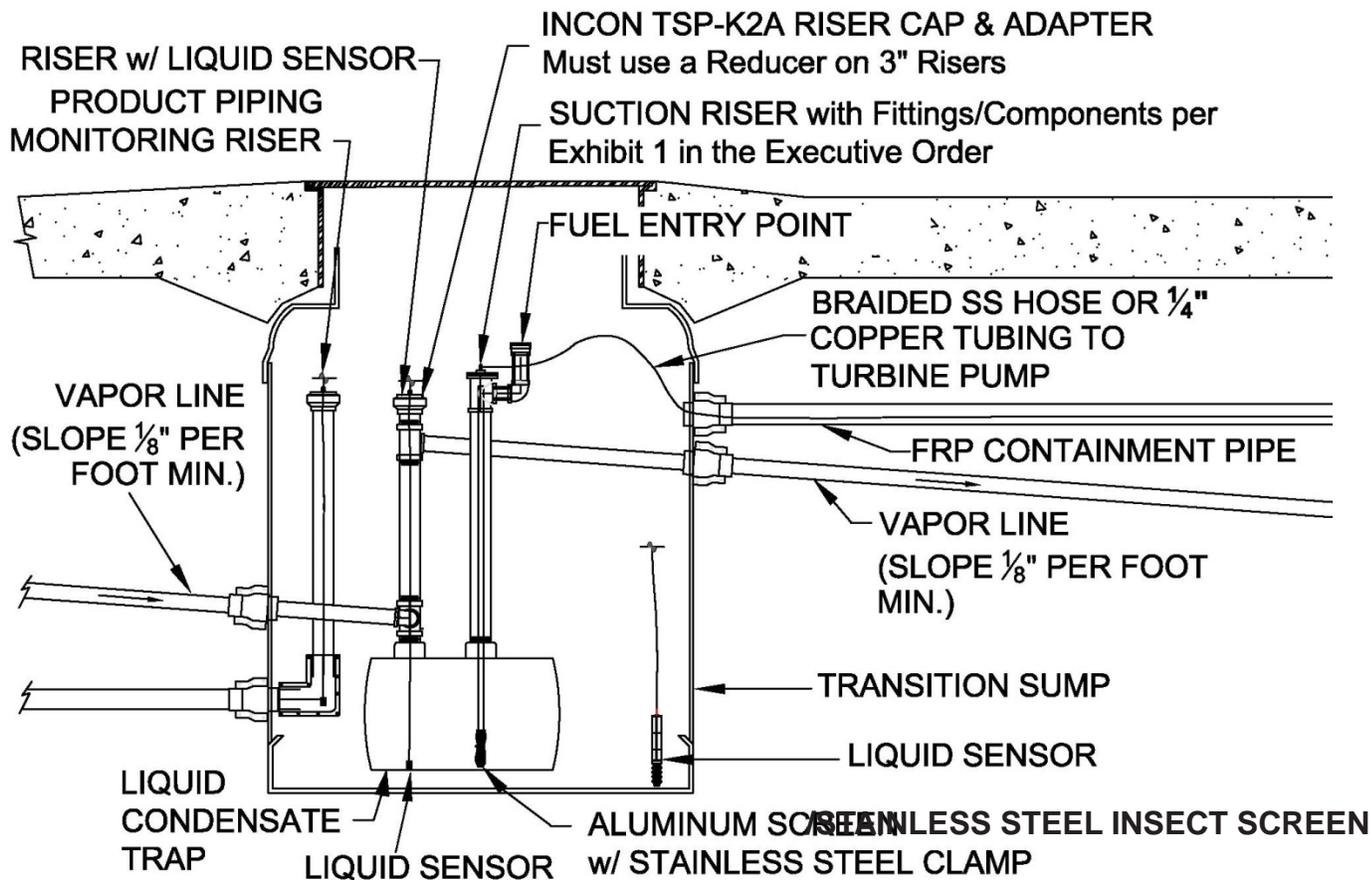


FIGURE 1A-LCT-2
Typical Liquid Condensate Trap Installed Inside the Transition Sump

Note: A Liquid Condensate Trap installed inside a liquid AND vapor tight transition sump that is monitored with a liquid sensor can be single walled (if installed before July 1, 2004).



SECTION II - In-Station Diagnostics

Option 1 - Veeder-Root Equipment (VR)

<u>Component</u>	<u>Manufacturer/Model</u>
TLS Console	<p>TLS-350 TLS-350 Plus TLS-350R Red Jacket ProMax Gilbarco EMC Simplicity</p> <p>Veeder-Root 8482XX-XXX Veeder-Root 8470XX-XXX X = Any digit (Figure 1-ISD-VR-1)</p>
ISD Software Version	<p>Veeder-Root ISD 1.05 (Required for new installations and facilities undergoing major modification)</p> <p>Refer to Table 1-ISD –VR-1, Veeder-Root ISD Software Version Compatibility Matrix</p>
Vapor Flow Meter (1 per Dispenser)	<p>Veeder-Root 331847-XXX X = Any digit (Figure 1-ISD-VR-2)</p>
Vapor Pressure Sensor (1 per GDF)	<p>Veeder-Root 331946-001 or 861190-201 Wired, approved for installation in the dispenser or on the vent stack (Figure 1-ISD-VR-3a)</p> <p>OR</p> <p>Veeder-Root 861190-201 Low Powered Wireless, approved for installation on the vent stack ONLY (Figure 1-ISD-VR-3b)</p>

<u>Component</u>	<u>Manufacturer / Model</u>
Vapor Pressure Sensor Desiccant Tube (optional) (1 per GDF)	Veeder-Root 330020 – Dryer Tube Figure (1-ISD-VR-3c)
Dispenser Interface Module (DIM)	Veeder-Root DIM Series (Figure 1-ISD-VR-4)
RS232 Interface Module	Veeder-Root RS232 Interface Module Series (Figure 1-ISD-VR-5)
RF Receiver-2 (optional)¹ (1 per GDF)	Veeder-Root 332440-029 (Figure 1-ISD-VR-6 and Figure 1-ISD-VR-7)
RF Repeater-2 (optional)¹ (1 per GDF)	Veeder-Root 332440-030 (Figure 1-ISD-VR-6 and Figure 1-ISD-VR-7)
RF Transmitter-2 (optional)¹ (1 per Dispenser)	Veeder-Root 332235-016 (Figure 1-ISD-VR-6 and Figure 1-ISD-VR-7)
RF Battery Pack (optional)¹ (1 per Transmitter)	Veeder-Root 332425-011 (Figure 1-ISD-VR-6 and Figure 1-ISD-VR-7)
TLS RF Console-2 (optional)¹ (1 per GDF)	Veeder-Root 332242-002 (Figure 1-ISD-VR-6 and Figure 1-ISD-VR-7)

¹ Optional wireless components for Veeder-Root Vapor Flow Meter

TABLE 1-ISD-VR-1
Veeder-Root ISD
Software Version Compatibility Matrix

Software Version*	Option		
	Dispenser Shutdown*** and Collection Monitoring Update	Wireless Components	Maintenance Tracker
1.01			•
1.02			•
1.03	•		•
1.04	•	•	•
1.05**	•	•	•

* Software Version 1.01 has been revoked for GDF's equipped with multiproduct (six pack) dispensers with fuel blending. Subject GDFs must upgrade to higher version software (1.02, 1.03, 1.04, or 1.05) by 07/01/2012.

** For new installations ISD software version 1.05 is compatible with all processors listed in this EO. For existing installations, refer to the above software compatibility matrix. With the exception of multiproduct (six pack) dispensers with fuel blending, software Versions 1.01, 1.02, 1.03, and 1.04 may remain in use at existing GDFs.

Software Version 1.05 must be installed at new GDFs or those undergoing a major modification as determined by date when the district issues the permit to construct.

*** Dispenser shutdown can be achieved by alternate means for GDFs equipped with Software Version 1.01 and 1.02 as indicated in the ARB approved IOM for the Veeder-Root ISD System.

FIGURE 1-ISD-VR-1
Veeder-Root 8482XX-XXX Veeder-
Root 7470XX-XXX

Standard TLS Console



FIGURE 1-ISD-VR-2
Vapor Flow Meter
Veeder-Root 331847-XXX

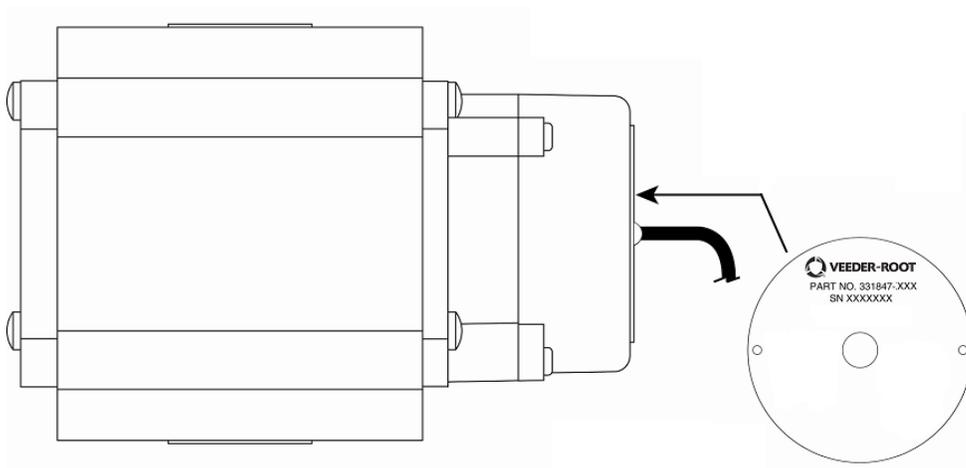


FIGURE 1-ISD-VR-3
Vapor Pressure Sensor

FIGURE 1-ISD-VR-3a
Veeder-Root 331946-001
Vapor Pressure Sensor

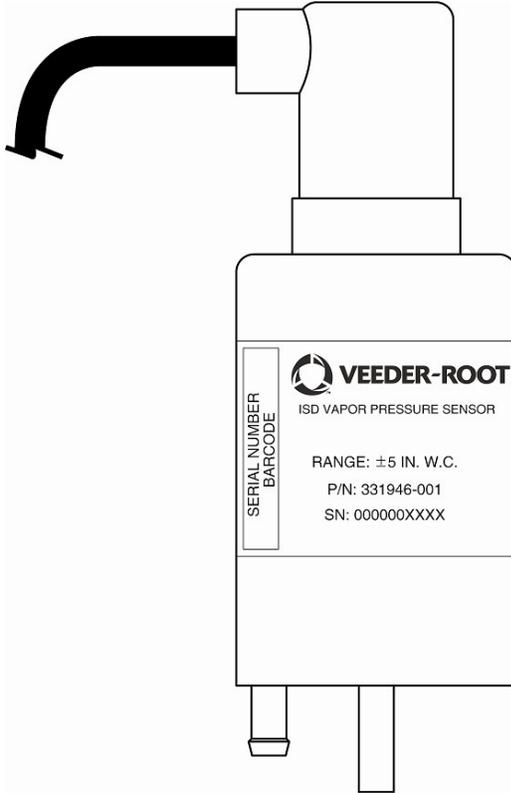


FIGURE 1-ISD-VR-3b
Veeder-Root 861190-201
Low Powered Vapor Pressure Sensor

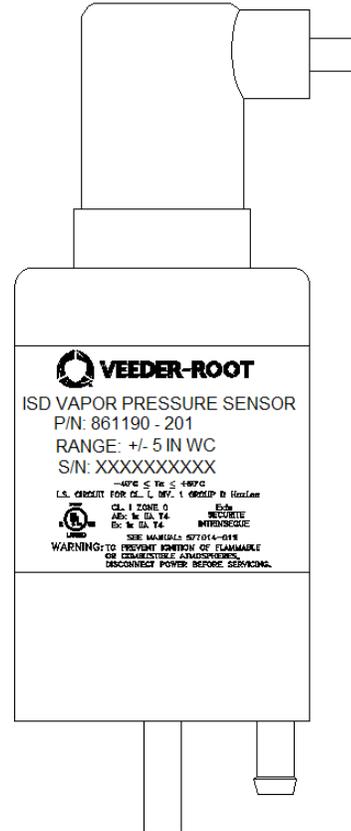
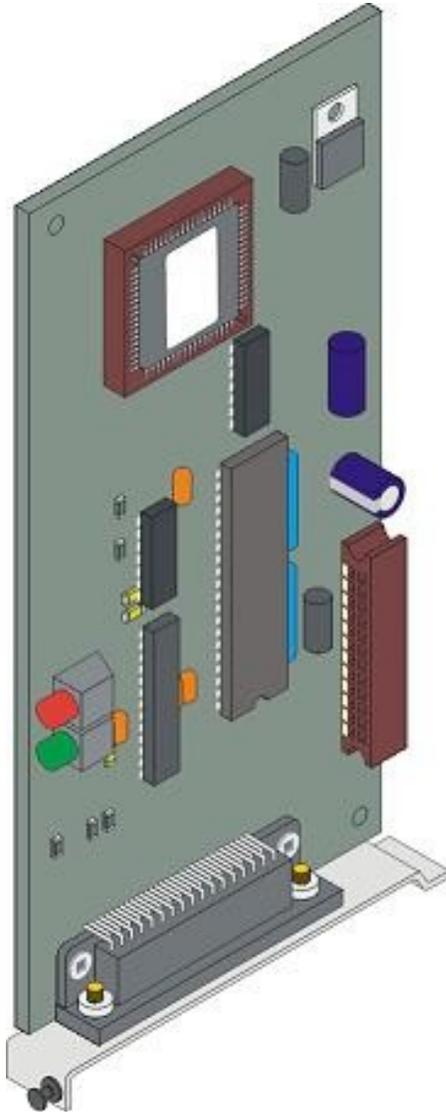


FIGURE 1-ISD-VR-3c
Veeder-Root 330020-717
Dryer Tube (Optional)



**FIGURE 1-ISD-VR-4
Dispenser Interface Module (DIM)**



**FIGURE 1-ISD-VR-5
RS232 Interface Modules**

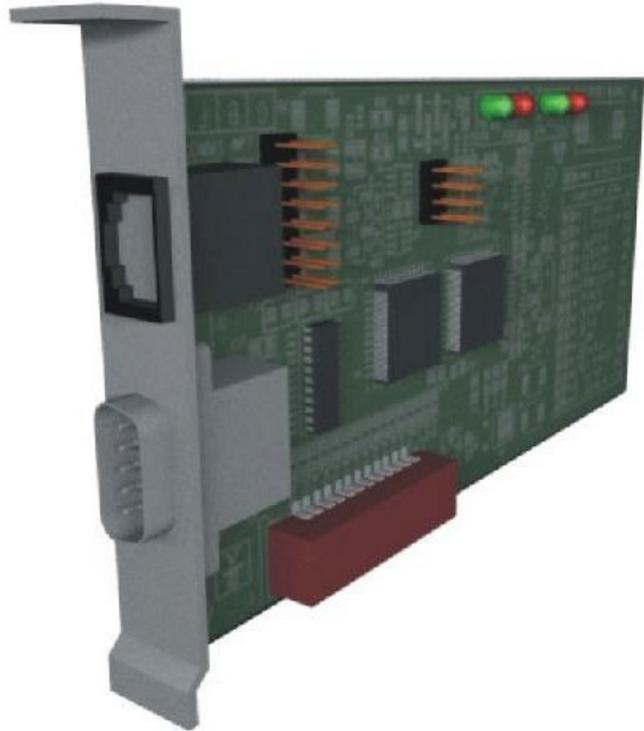
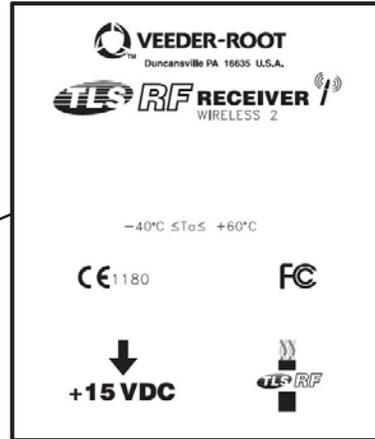


FIGURE 1-ISD-VR-6
Veeder Root Optional Wireless Components

RF Receiver-2



RF Repeater-2

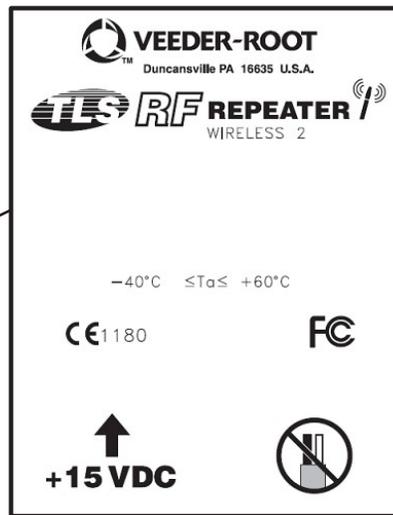
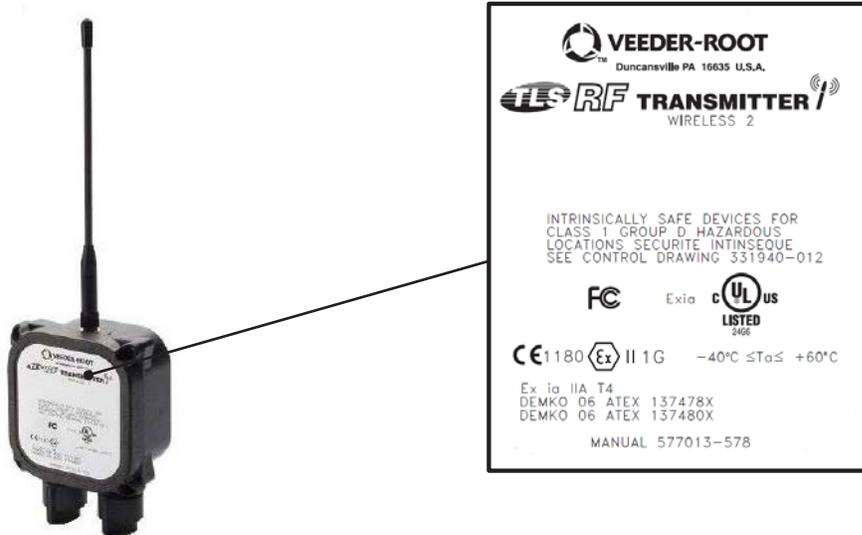
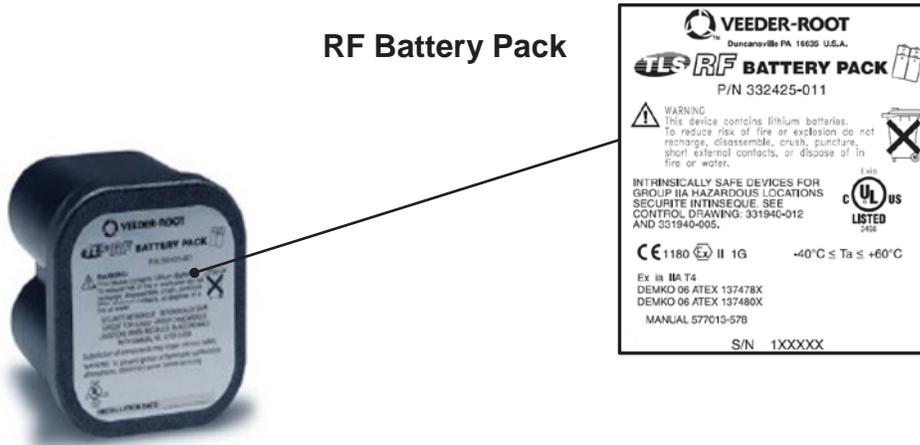


FIGURE 1-ISD-VR-6 (continue)
Veeder Root Optional Wireless Components

RF Transmitter-2



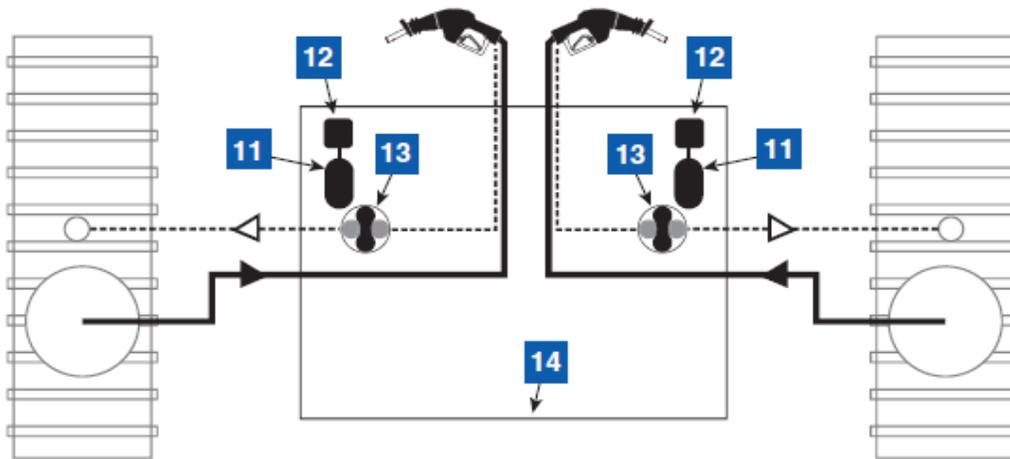
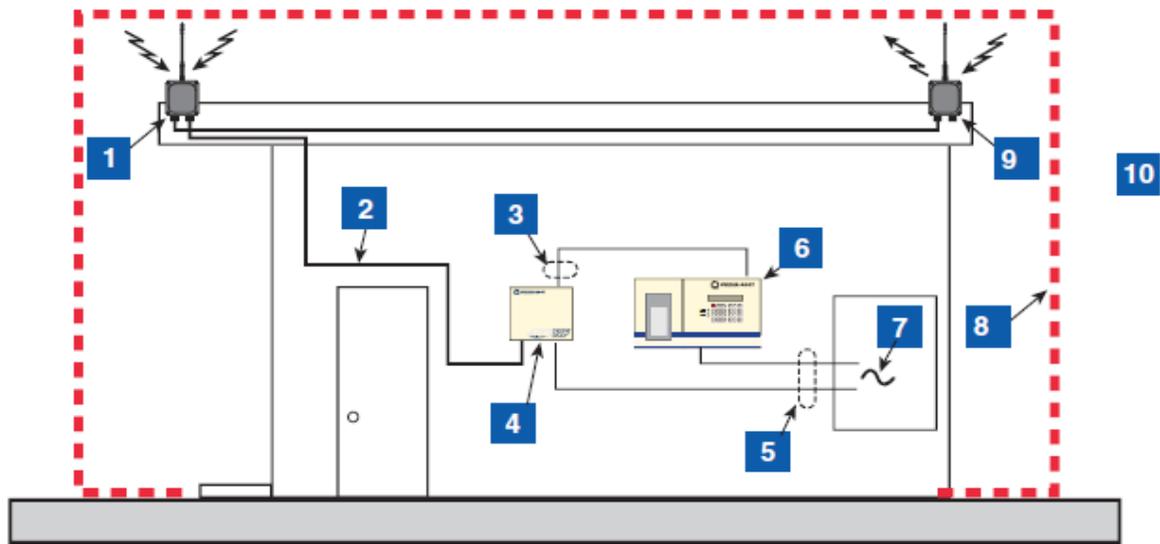
RF Battery Pack



TLS RF Console-2



**FIGURE 1-ISD-VR-7
TLS RF Wireless System Layout**



LEGEND FOR NUMBERED BOXES IN Figure 1

To be installed in accordance with the National Electrical Code, NFPA 70 and the Code for Motor Fuel Dispensing Facilities and Repair Garages (NFPA 30A), or other local codes such as the CEC, Canadian Electrical Code.



WARNING! Substitution of components may impair intrinsic safety.

Circuitry within the console barrier forms an intrinsically safe, energy-limited system. This system is intrinsically safe for use in a Class I, Group D hazardous location.

- 1. Receiver (1 per RF System)
- 2. RS-485 Cable (Belden #3107A or equiv.)
- 3. NOTE: Intrinsically safe wiring shall be installed in accordance with Article 504-20 of the NEC, ANSI/ NFPA 70. Max cable length 1000 ft. (304 m). W2 Receiver (1 per RF System)

- 4. TLS-RF
- 5. Conduit that enters power wiring knockout.
- 6. TLS console (Vm = 250 V)
- 7. 120 or 230 Vac from power panel
- 8. Non-hazardous area
- 9. Repeater (1 per RF System)
- 10. Hazardous area (Class I, Div. 1, Group D)
- 11. Transmitter
- 12. Battery pack
- 13. Vapor Flow meter
- 14. Dispenser sump

Section II - In-Station Diagnostics

Option 2- INCON Equipment List

<u>Component</u>	<u>Manufacturer/Model</u>
Console	
TS-EMS	INCON / TEMSXXXX/YV Where: X represents hardware option (Example: X can be: 'D' for Display, 'P' for Printer) Y represents software option (Example: Y can be: 'S' for Secondary Containment Monitoring) V represents Vapor Recovery Monitoring Application
TS-550	INCON / T550XXXX/YYYYV
TS-5000	INCON / T5000XXXX/YYYYV Where: X represents hardware option (Example: X can be: 'D' for Display, 'P' for Printer) Y represents software option (Example: Y can be: 'T' for Tank Testing) V represents Vapor Recovery Monitoring Application

(Figure 1-ISD-INCON-1)

Note: All consoles come standard with RS-232 (COMM 1) and Ethernet ports for data access.

Vapor Recovery Monitoring (VRM) Software

INCON / TS-VRM Version 1.2.0

Vapor Flow Meter

(1 per Dispenser)

INCON TS-VFM
(Figure 1-ISD-INCON-2)

Vapor Pressure Sensor

(1 per GDF)

INCON TS-VPS
(Figure 1-ISD-INCON-3)

Component**Manufacturer / Model****Data Transfer Unit (Optional)**

(1 per dispenser and
1 per GDF)

³
INCON TS-DTU/P
(Figure 1-ISD-INCON-4)

Dispenser Retrofit Kit (Optional)

(1 per dispenser with DTU)

²
INCON TS-DRK/x
where x represents Type of Installation Kit

W, Wayne Installation Kit

E, Gilbarco Encore Installation Kit

A, Gilbarco Advantage Installation Kit

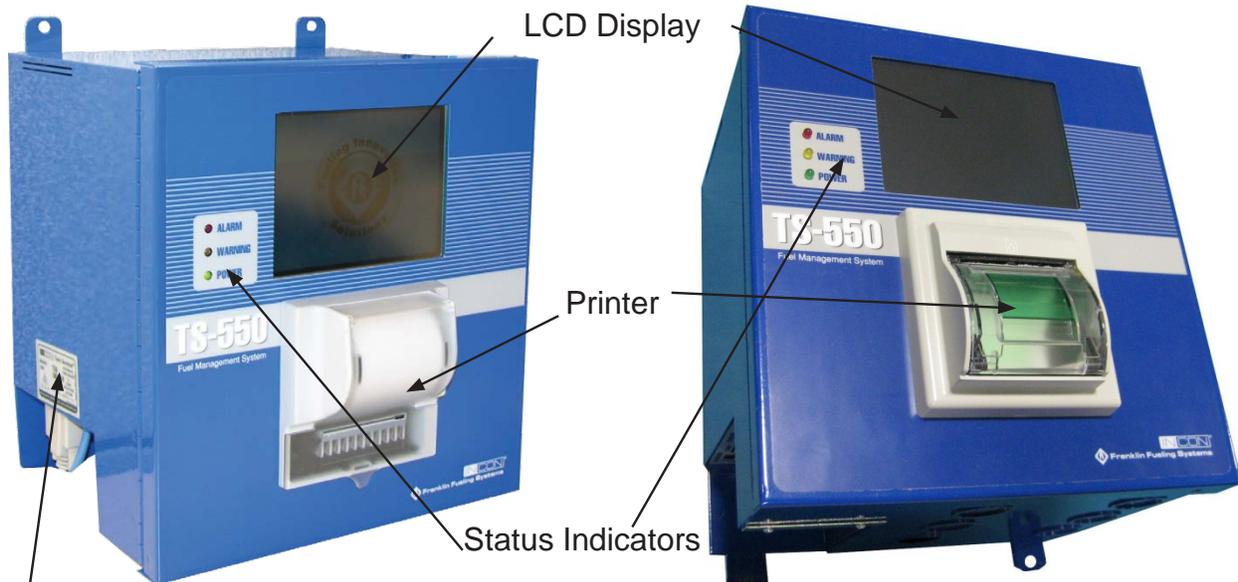
T, Tokheim Installation Kit

Thermal Printer Retrofit for TS-EMS and TS-550 with VRM Consoles (Optional)

- A. Order Model Number TSSP-TMPTR;
- B. ISD Software must be version 1.2.0 or higher; and
- C. The Console Firmware must be 1.5.x.xxxx or higher.

³ Optional installation method for the replacement of dedicated wires to VFM and VPS. Refer to the IOM for more information

FIGURE 1-ISD-INCON-1
INCON TEMSXXXX/YV
INCON T550XXXX/YYYYV
INCON T5000XXXX/YYYYV



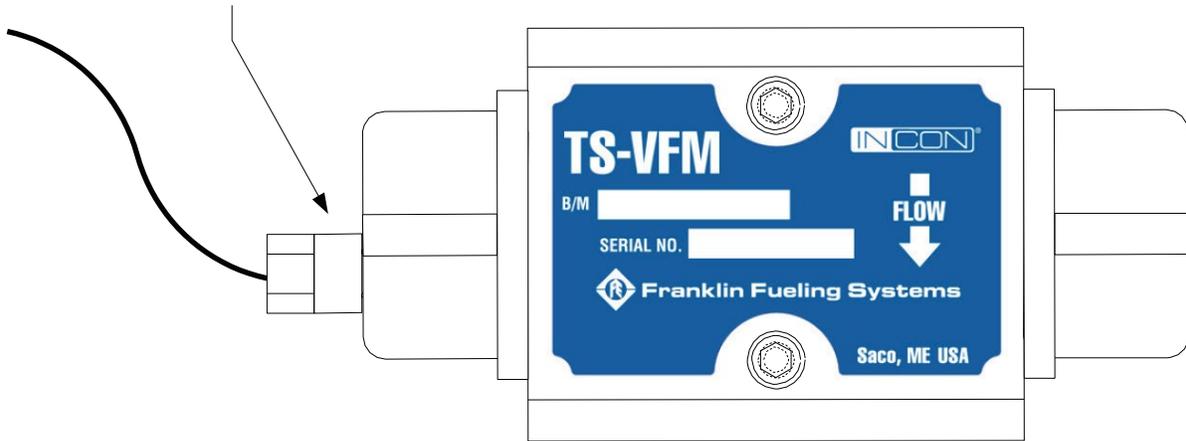
Label with console serial and model numbers

Communication Ports



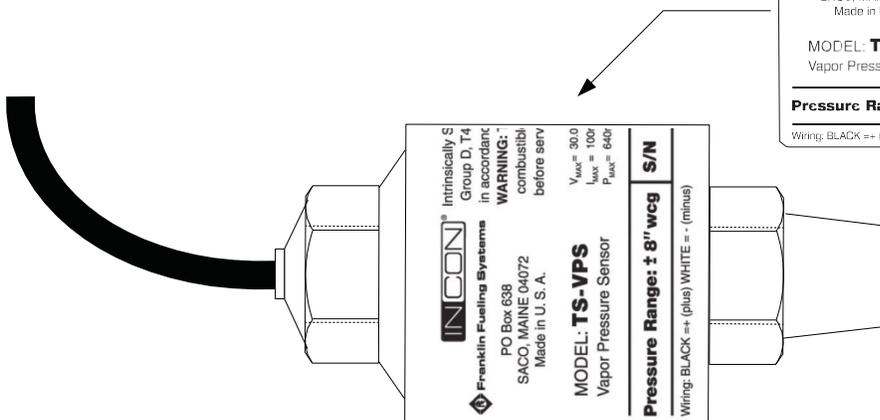
**FIGURE 1-ISD-INCON-2
INCON TS-VFM
Vapor Flow Meter**

 Incon $V_{max} = 28\text{V}$ $I_{max} = 163\text{mA}$ $P_{max} = 1.17\text{W}$ $C_i = 0.75\mu\text{F}$ $L_i = 0\text{mH}$	Intrinsically Safe Encoder for use in Class 1, Division 1 Group D, T4 hazardous location when installed in accordance with Control Drawing #000-1721. WARNING: To prevent ignition of flammable or combustible atmospheres, disconnect power before servicing. See installation instructions.	 Franklin Fueling Systems PO Box 638 SACO, MAINE 04072 U.S.A. Made in U.S.A.
	PN 240-0063 Rev D -40°C ≤ Ta ≤ 60°C TSP-ENCD S/N	

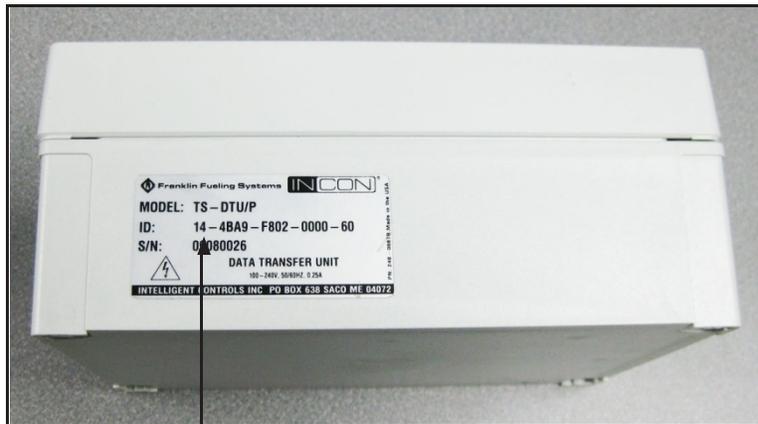


**FIGURE 1-ISD-INCON-3
INCON TS-VPS
Vapor Pressure Sensor**

 Franklin Fueling Systems PO Box 638 SACO, MAINE 04072 Made in U.S.A.	Intrinsically Safe Device for use in Class 1, Div. 1 Group D, T4 hazardous location when installed in accordance with Control Drawing #000-1728. WARNING: The prevent ignition of flammable or combustible atmospheres, disconnect power before servicing. See installation instructions.	 LISTED 4KA5 PN 240-0067 Rev A
	MODEL: TS-VPS Vapor Pressure Sensor $V_{max} = 30.0\text{V}$ $I_{max} = 100\text{mA}$ $P_{max} = 640\text{mW}$	
Pressure Range: ± 8" wcg S/N Wiring: BLACK ==+ (plus) WHITE ==- (minus)		-40°C ≤ Ta ≤ 60°C



**FIGURE 1-ISD-INCON-4
INCON TS-DTU/P
Data Transfer Unit**



Label with DTU Serial Number and ID Number