Executive Order VR-201-AE
Assist Phase II EVR System
Not Including ISD
Exhibit 1
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)

Processor (Only One Per GDF Installation)

   Active

ARID Technologies Model AT-150 Permeator
(Figure 1-20)

   Passive

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 Low Permeation Hose (3/4" I.D)
(Figure 1-5a)
75W-XXX-YZYZ-LP
   Where:
      W   = hose color (varies)
           Note: Product label will have an "X" in this position for all hose colors
      XXX = hose length
           First two digits = length in feet
           Last digit = length in tenths of foot
           Note: Product label will have "XXX" in this position for hose length
      Y   = hose end type
           S = Swivel End
           F = Fixed End
      Z   = thread type
           2 = Healy Straight Thread
           3 = Metric Thread
           4 = Balance-Type Thread
Model 75 Series alternate outer hose - FFS
(Figure 1-5b)

Component	Manufacturer/Model
Inverted Coaxial Hoses (continued)	

ContiTech[1] Futura HVR Series Low Permeation Hose (3/4" I.D)
(Figure 1-5c)
532-33W-X24-0YYZZ

    Where:

        W = hose color (varies)

        X = fitting combination

            2 = S2S2

            3 = S3F2

            4 = S4F2

            5 = F2F2

            6 = F3F2

            7 = S2F2

            8 = S4S2

        Y = hose length in feet

        Z = hose length in tenths of feet

VST V34EV ENVIRO-LOC™ Series Low Permeation Hose
(3/4" I.D)
(Figure 1-5d)
V34EV-XXX-VSVS or V34EV-XXX-HSHS or
V34EV-XXX-HSVS or V34EV-XXX-BRVS or
V34EV-XXX-BRHS

    Where:

        XXX   = Length in inches (e.g. 096 = 96" length)

        VSVS   = M34 thread / 2 swivels

        HSHS   = 1-1/4" -18 Straight Thread / 2 swivels

        HSVS   = 1-1/4" -18 Straight Thread Swivel / M34
                Thread Swivel

        BRVS   = 1-7/8" - 12 Balance Thread Rigid / M34
                Thread Swivel

        BRHS   = 1-7/8" - 12 Balance Thread Rigid /1- 1/4" -
                18 Straight Thread Swivel

Component	Manufacturer / Model
Dispenser Conversion Adaptors (Optional)[2]	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

---

[1] Veyance brand name has changed to ContiTech.

[2] 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.

	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)
	Optional Covers P/N 761 and P/N 762
	Healy Model 807 Swivel
	(Figure 1-10b)
	Catlow Model CTMCA
	(Figure 1-10c)
	VST Model VST-HEVR-SBK
	(Figure 1-10d)
	VST Model VST-ISVR-SBK (M34 type)
	(Figure 1-10e)
	Husky Model 014592 Magbreak Safe-T-Break
	Husky Model 008332 Magbreak Safe-T-Break (M34 type)
	Husky Model 015416 Magbreak Safe-T-Break Bottom Half
	Husky Model 008632 Magbreak Safe-T-Break Bottom Half (M34 type)
	(Figure 1-21)
	Husky Model 006560 Standard Safe-T-Break
	Husky Model 004034 Standard Safe-T-Break (M34 type)
	(Figure 1-22)
Non Re-connectable Breakaway Coupling	Husky Model 015377 Standard Safe-T-Break
	Husky Model 005134 Standard Safe-T-Break (M34 type)
	(Figure 1-23)
Multi-Plane Swivel	Husky Model 014620 VR Swivel
	Husky Model 004605 VR Swivel (M34 type)
	(Figure 1-24)

<u>Component</u>	<u>Manufacturer / Model</u>
Flow Limiter[3]	Healy Model 1301
	(Figures 1-11 and 1-12)
	Healy Model 1302
	(Figures 1-13 and 1-14)
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 Series[4]

---

[3] 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 all standard breakaways listed. 1302 is only used with 807 swivel breakaway.
[4] Encore Dispensers factory equipped with Healy VP1000 will now have an angled (~13°) outlet casting.

Healy Kit VP1000R[5] or VP1000S[6]

Model#'s	Description:
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 VP1000M[7]

Model #'s	Description:
9852 - Suffix1 Suffix2	
9853 - Suffix1 Suffix2	

Component — Manufacturer / Model

Dispensers
(Continued)

Where:
Suffix1 can be:
A = Factory fabrication and assembly modifications to chassis
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

---

[5] Kit used to install Healy components in Encore Balance series dispenser. VP1000R previously sold as equivalent to VP1000L.
[6] Kit used to install Healy components in Encore Assist series dispenser. VP1000S previously sold as equivalent to VP1000K.
[7] Kit used to install Healy components in GasBoy 9800 series dispenser.

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

Component	Manufacturer / Model
Dispensers (Continued)	

7	=	Electronic totalizer activator on both sides
9	=	Provided with 900-R Series TopKat

Wayne Harmony Series
   Healy Kit VP1000N[8] or VP1000Q[9]

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

---

[8] Kit used to install Healy components to Harmony Balance series dispenser.
[9] Kit used to install Healy components to Harmony Assist series dispenser.

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 VP1000P[10]

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

Component	Manufacturer / Model
Dispensers (Continued)	

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 VP1000T[11] & VP1000V[12]

Model #'s	Description:
prefix/VXXXYZ/suffix	

Where:

Prefix = Any number or letter

---

[10] Kit used to install Healy components to Ovation Balance or Assist series dispenser. VP1000P previously sold as equivalent to VP1000C.
[11] Kit used to install Healy components to 3V and 4V Vista series dispenser. VP1000T previously sold as equivalent to VP1000C.
[12] Kit used to install Healy components to 1V and 2V Vista series dispenser. VP1000V previously sold as equivalent to VP1000F.

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)

Component	Manufacturer / Model

Dispensers
(Continued)

Wayne Global Century & Select Series[13]

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

        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 Series[14]

Model #'s   Description

/GABCDE/Suffix

    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

---

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

Component	Manufacturer / Model
Dispensers (Continued)	

3 = Twin II, Island-Oriented

E   = Dispenser Type

D= Dispenser-Remote

Suffix = Any combination of letters or numbers

FFS/Healy Universal Retrofit Manual[15]

Healy Kits = VP1000A[16]

= VP1000D[17]

= VP1000G[18]

= VP1000H[19]

= VP1000J[20]

= Z071V[21]

= Z070E[22]

= Z008[23]

= Z009[24]

---

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

[16] 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.

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

[18] Wayne DL Non-Blender Dispensers – 120 VAC valves.

[19] Tokheim Premier C Blender Dispensers – 24 VDC valves.

[20] Early Tokheim Blender Dispensers – Combination 120 VAC & 24 VDC valves.

[21] Universal Vapor Kit.

[22] Universal Electrical Kit.

[23] Standard Low Profile Single Hose Dispenser Retrofit Kit.

[24] Standard Low Profile Dual Hose Dispenser Retrofit Kit.

Component   Manufacturer / Model

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

Maintenance Tracker Kit   Veeder-Root 330020-546
(TLS-350 Series)
(Optional)   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)
- ROM Board (ROM Part# 330899-001) (Figure 1-19)
- Manual

FIGURE 1-1
(Drawing)

FIGURE 1-2
(Image)

VAPOR
COLLECTION
BOOT

NOZZLE SERIAL
NUMBER LOCATION
(LAY NOZZLE ON
SIDE TO SEE INFO)

HEALY MODEL 900
SN. XX YY Z

XX = WEEK (i.e. 37)
YY = YEAR (i.e. 06)
 Z = SEQUENTIAL
        NUMBER
        (i.e. 1,2,...,9999)

900

HEALY

OR

TWO POSITION
HOLD OPEN CLIP

THREE POSITION
HOLD OPEN CLIP

11
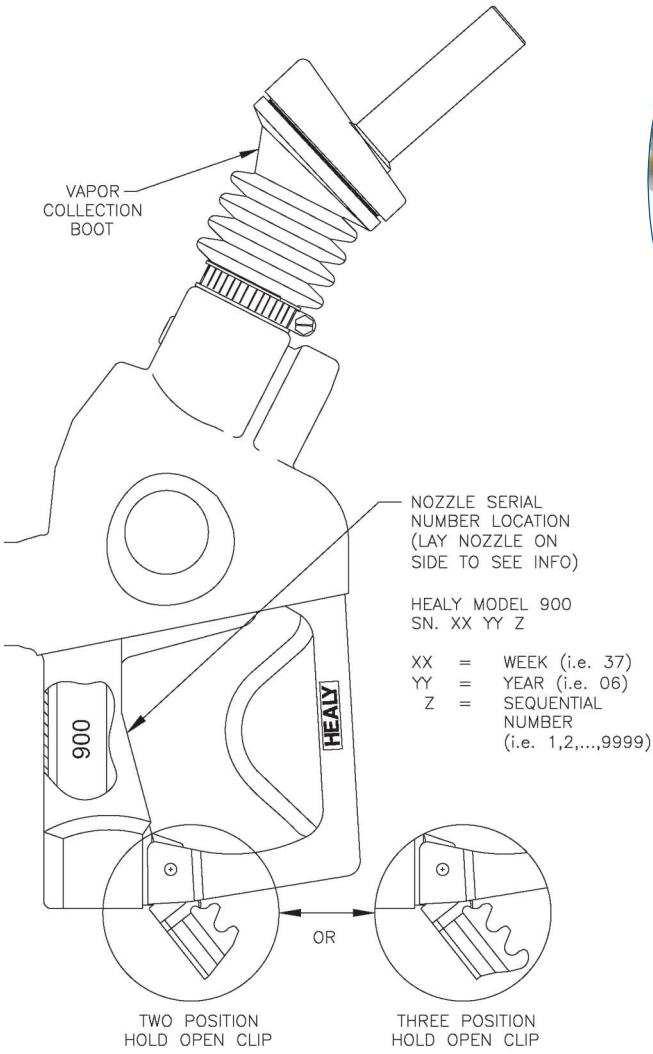
FIGURE 1-3
Healy Model 9961 Clean Air
Separator
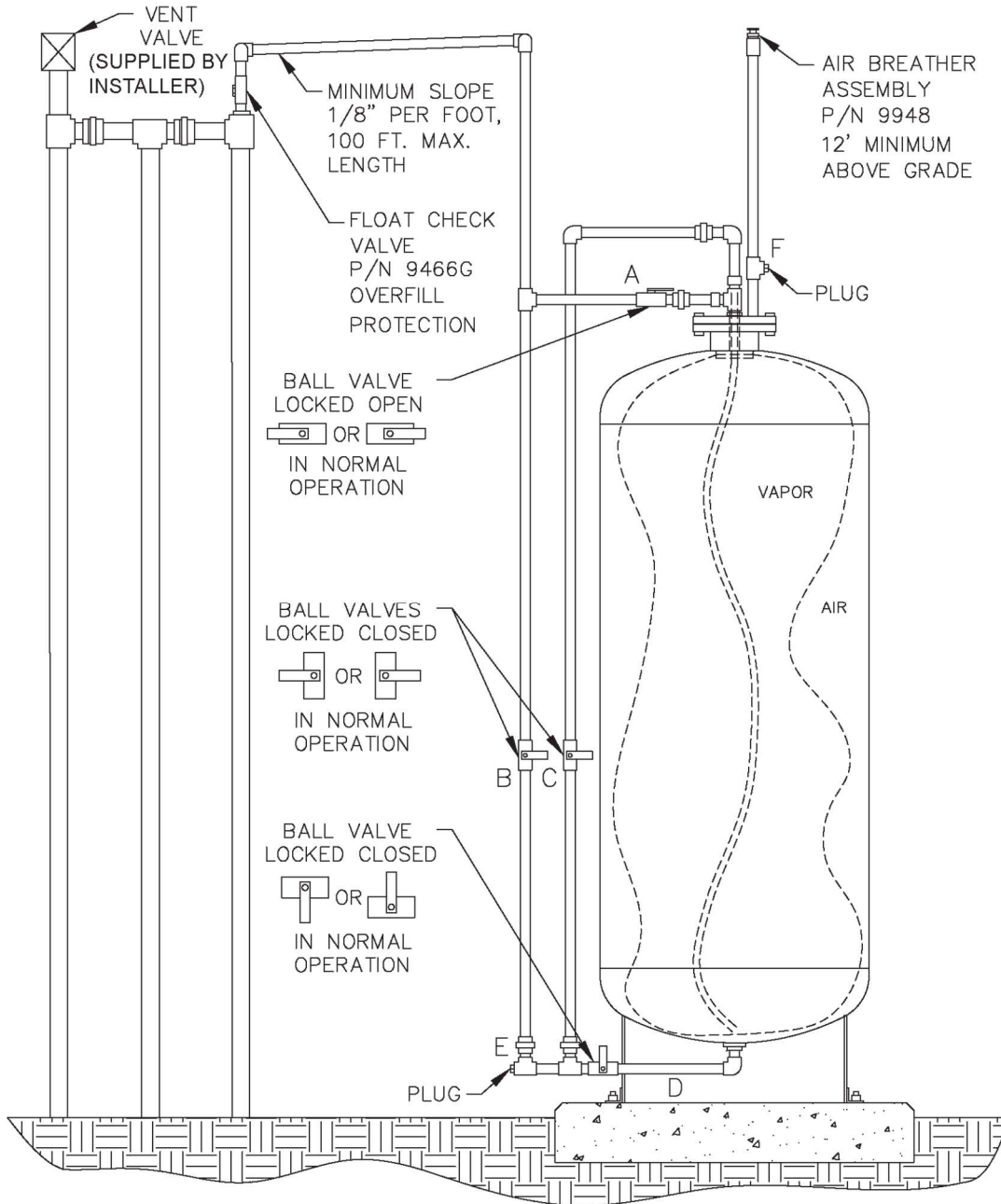
FIGURE 1-3H
Healy Model 9961H Clean Air Separator

13
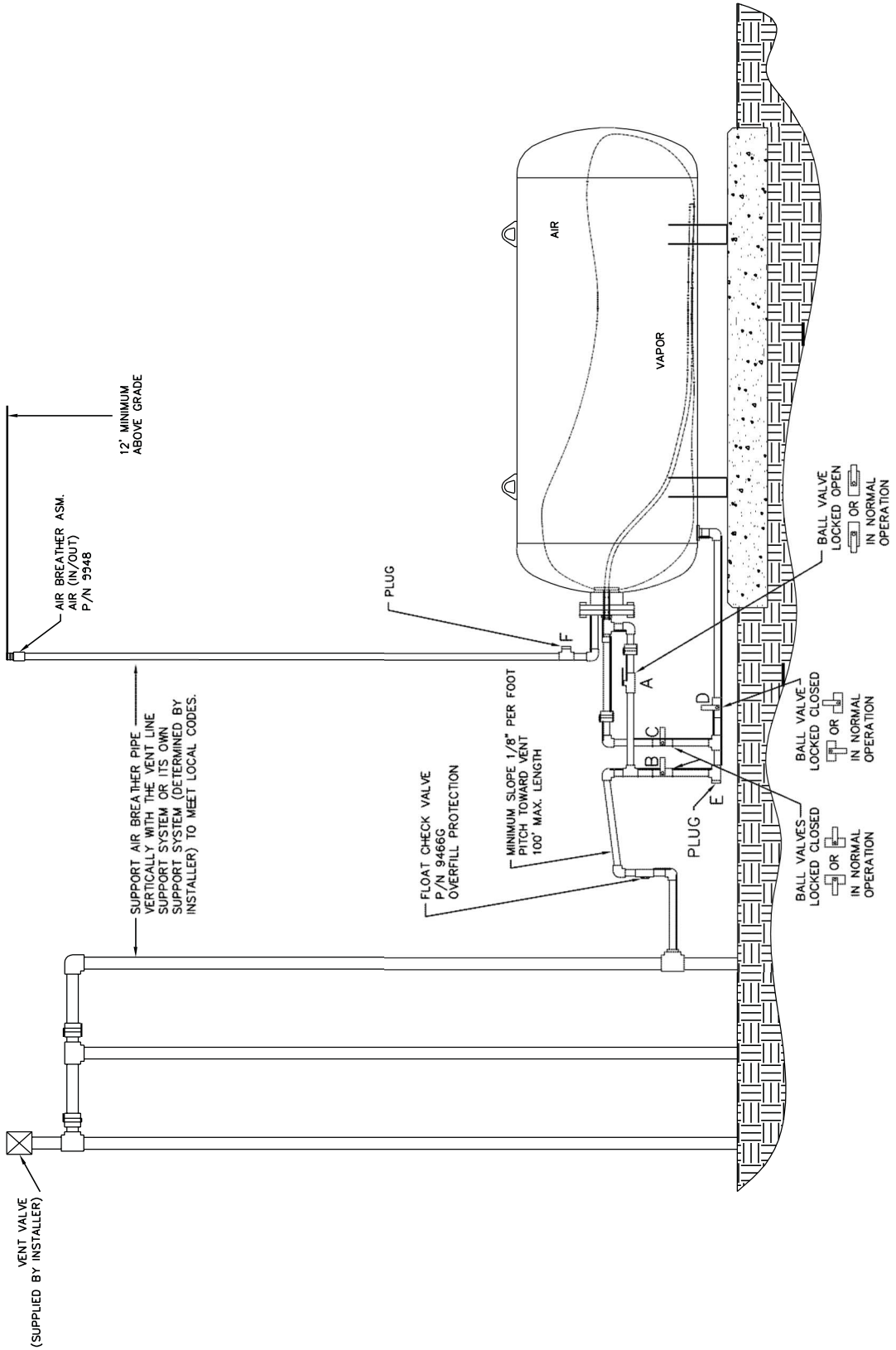
FIGURE 1-4
**Healy Model 9961 Clean Air
Separator**

Clean Air Separator Name Plate

Clean Air Separator Data Plate

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
(hose and lay line colors may vary)

Figure 1-5b
Model 75 Series alternate outer hose - FFS

HW - LOW PERM (10g/m^2/Day) GASOLINE HOSE BY ◆ Franklin Fueling Systems 3/4" (19mm) ℞ MH48641

Figure 1-5c
ContiTech Futura HVR Low Perm Series Hose
(hose and lay line colors may vary)

Serial Number

ContiTech USA, Inc.
703 S. Cleveland Massillion Rd.
Fairlawn, OH 44333 USA
Telephone: 1-800-235-4632

Figure 1-5d
VST V34EV ENVIRO-LOC™ Series Low Permeation Hose
(hose and lay line colors may vary)

Serial Number

Mfr. Name & Model

FIGURE 1-6
Hanging Hardware Selection Options
Breakaway and 1301 Flow Limiter
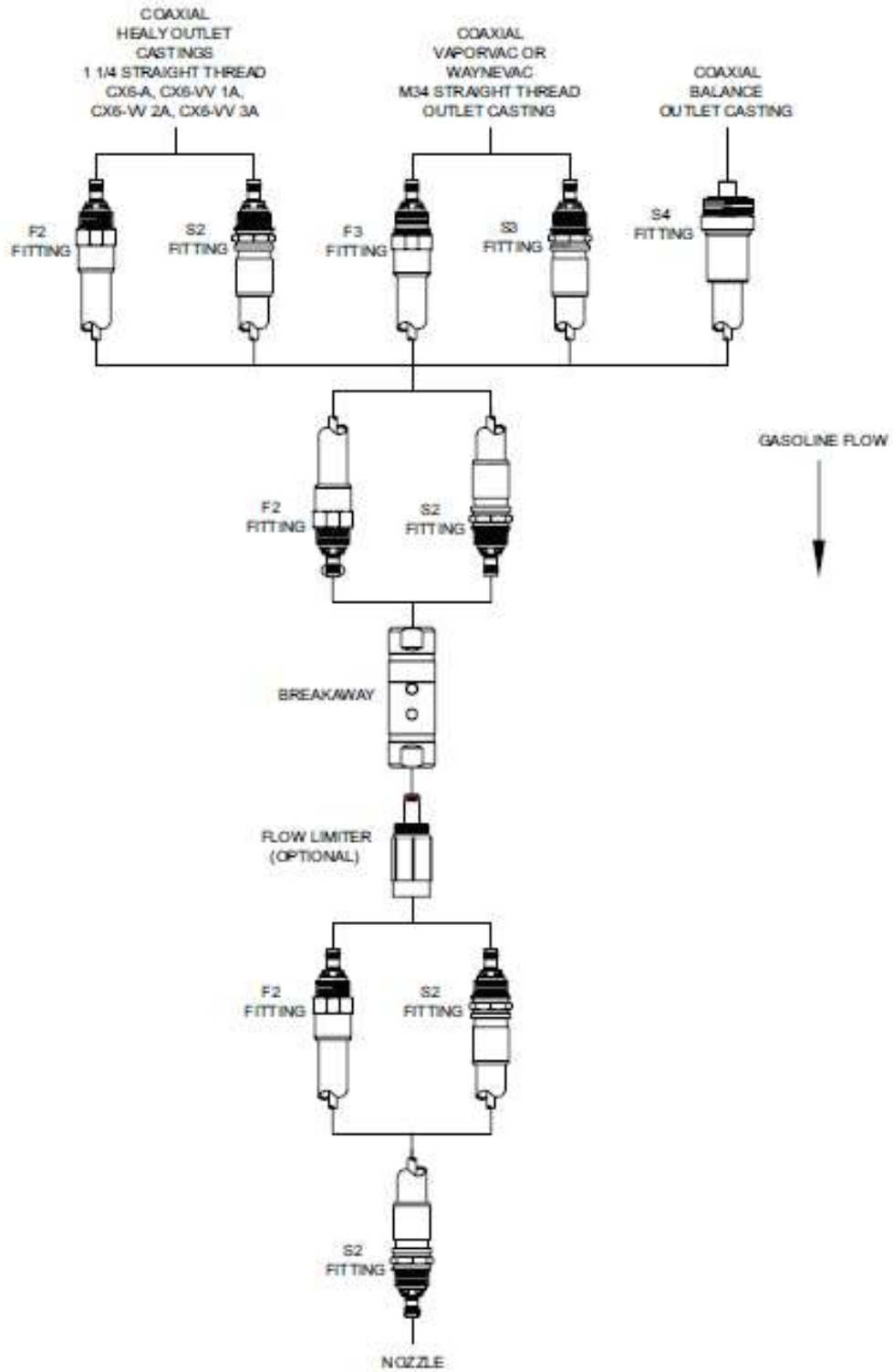
FIGURE 1-7
Hanging Hardware Selection
Options
Model 807 Swivel Breakaway and 1302 Flow Limiter

COAXIAL
HEALY OUTLET
CASTINGS
1 1/4 STRAIGHT THREAD
CX6-A, CX6-VV 1A,
CX6-VV 2A, CX6-VV 3A

COAXIAL
VAPORVAC OR
WAYNEVAC
M34 STRAIGHT THREAD
OUTLET CASTING

COAXIAL
BALANCE
OUTLET CASTING

F2
FITTING

S2
FITTING

F3
FITTING

S3
FITTING

S4
FITTING

GASOLINE FLOW

F2
FITTING

S2
FITTING

FLOW LIMITER
(OPTIONAL)

SWIVEL BREAKAWAY

S2
FITTING

NOZZLE

21
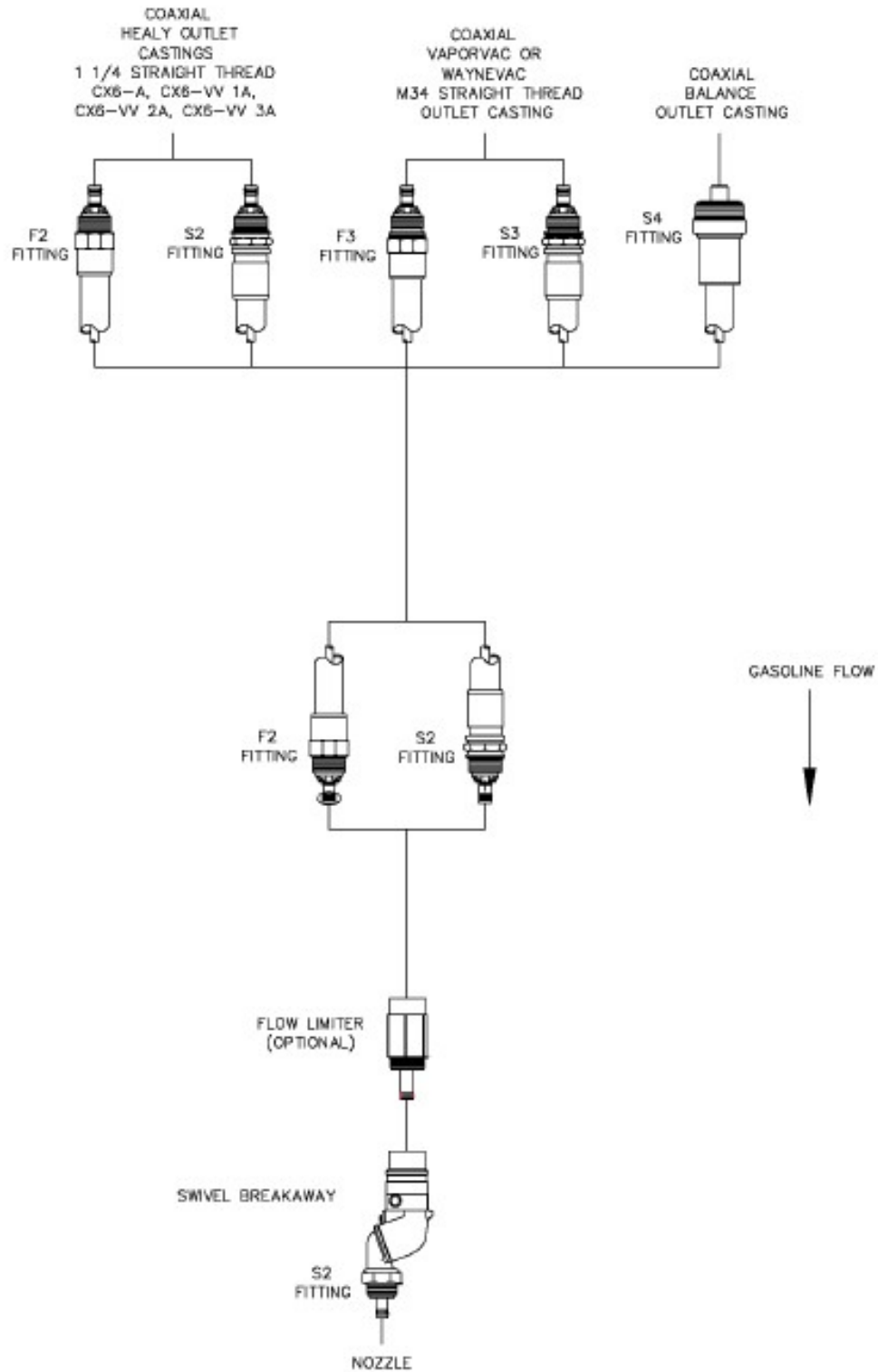
Dispenser Conversion Adaptors

FIGURE 1-8
Healy Model CX6-A

FIGURE 1-8
Healy Model CX6-A

FIGURE 1-8
Healy Model CX6-VV1A
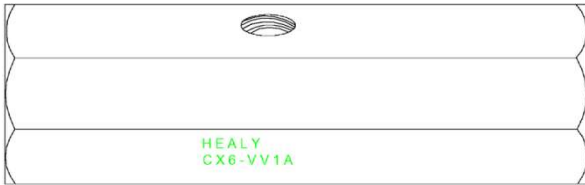
FIGURE 1-8
Healy Model CX6-VV2A

Dispenser Conversion Adaptors

FIGURE 1-9
Healy Model CX6-VV3A
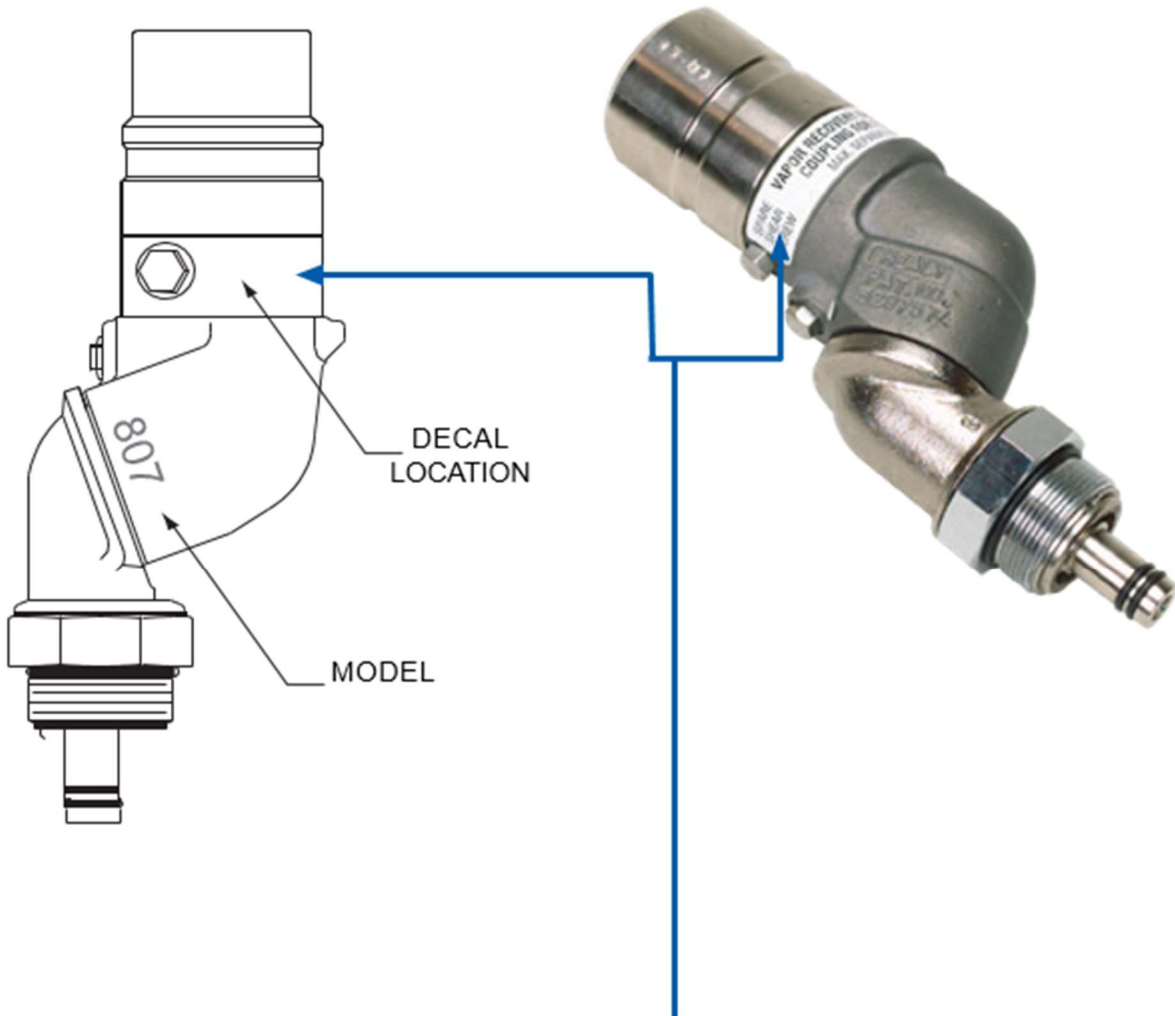

CX6-VV3A
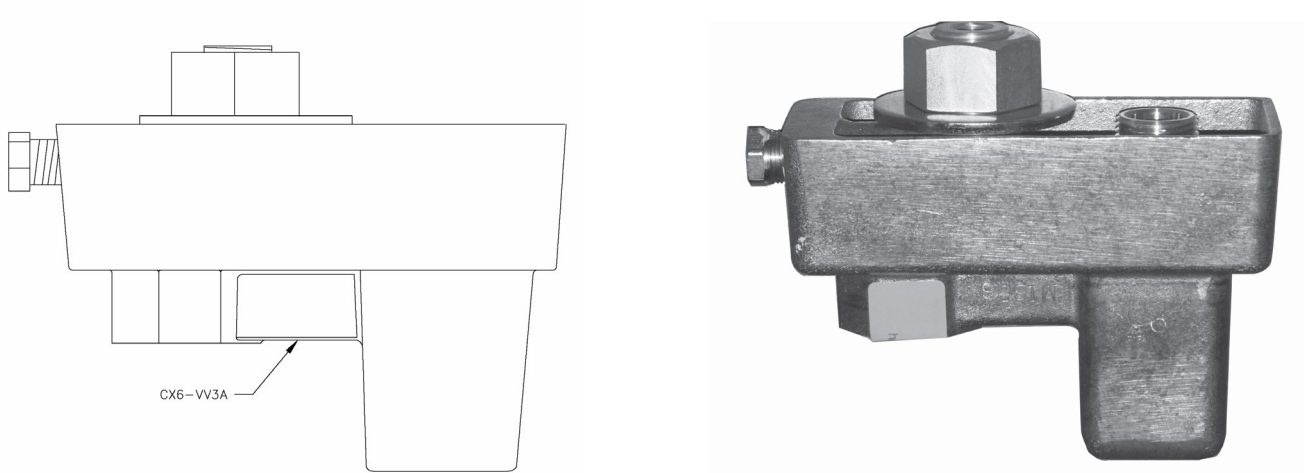
FIGURE 1-9
EBW Model 303-301-01
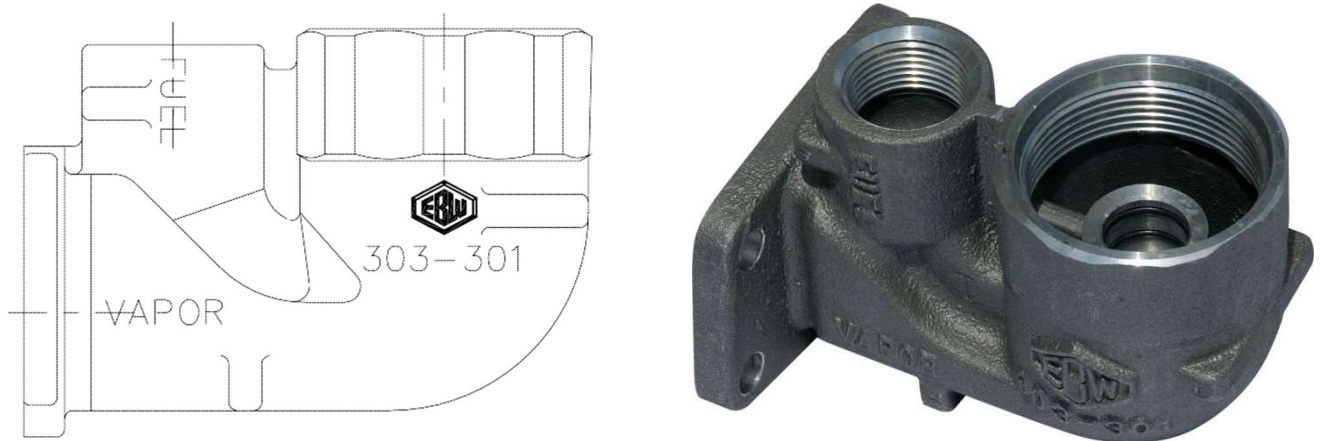
FIGURE 1-10a
Healy Model 8701VV Breakaway

DECAL LOCATION

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

BREAKS AT NOT MORE THAN 350 LBS.

(UL) **WARNING:** SEE INSTRUCTIONS
PRIOR TO INSTALLATION

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

Optional Covers P/N 761 & P/N 762

← SPARE

HEALY
P/N 761

HEALY
P/N 762

FIGURE 1-10b
Healy Model 807 Swivel Breakaway

DECAL
LOCATION

MODEL

FLOW ▼ VAPOR RECOVERY EMERGENCY BREAKAWAY
COUPLING FOR FLAMMABLE LIQUIDS (UL) MODEL
STRAIGHT THDS.
BOTH ENDS MAX. SEPARATION FORCE 350# LISTED 9MJ9 807
FRANKLIN FUELING SYSTEMS MADISON WI

SPARE
SHEAR
SCREW ▼
LBL P/N 893

FLOW ▼ VAPOR RECOVERY EMERGENCY BREAKAWAY
COUPLING FOR FLAMMABLE LIQUIDS (UL) MODEL
STRAIGHT THDS.
BOTH ENDS MAX. SEPARATION FORCE 350# LISTED 9MJ9M 807
Healy Systems Inc. Hudson, N.H. 03051

SPARE
SHEAR
SCREW ▼
LBL P/N 893

DECALS SHOWN LARGER FOR READABILITY

EITHER LABEL MAY APPLY

FIGURE 1-10c
Catlow Model CTMCA Breakaway

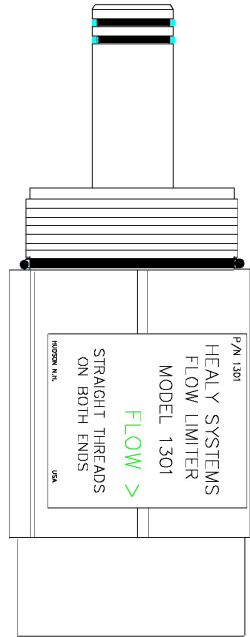Cover

Serial Number

M3418 Adaptor and Ferrule

FIGURE 1-10d
VST Model VST-HEVR-SBK Breakaway

FIGURE 1-10e
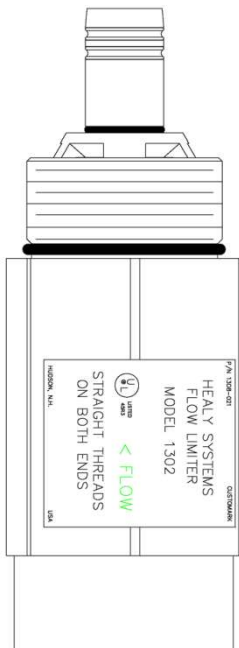**VST Model VST-ISVR-SBK Breakaway**
(M34 type)

Serial Number

FIGURE 1-11
Healy Model 1301 Flow Limiter

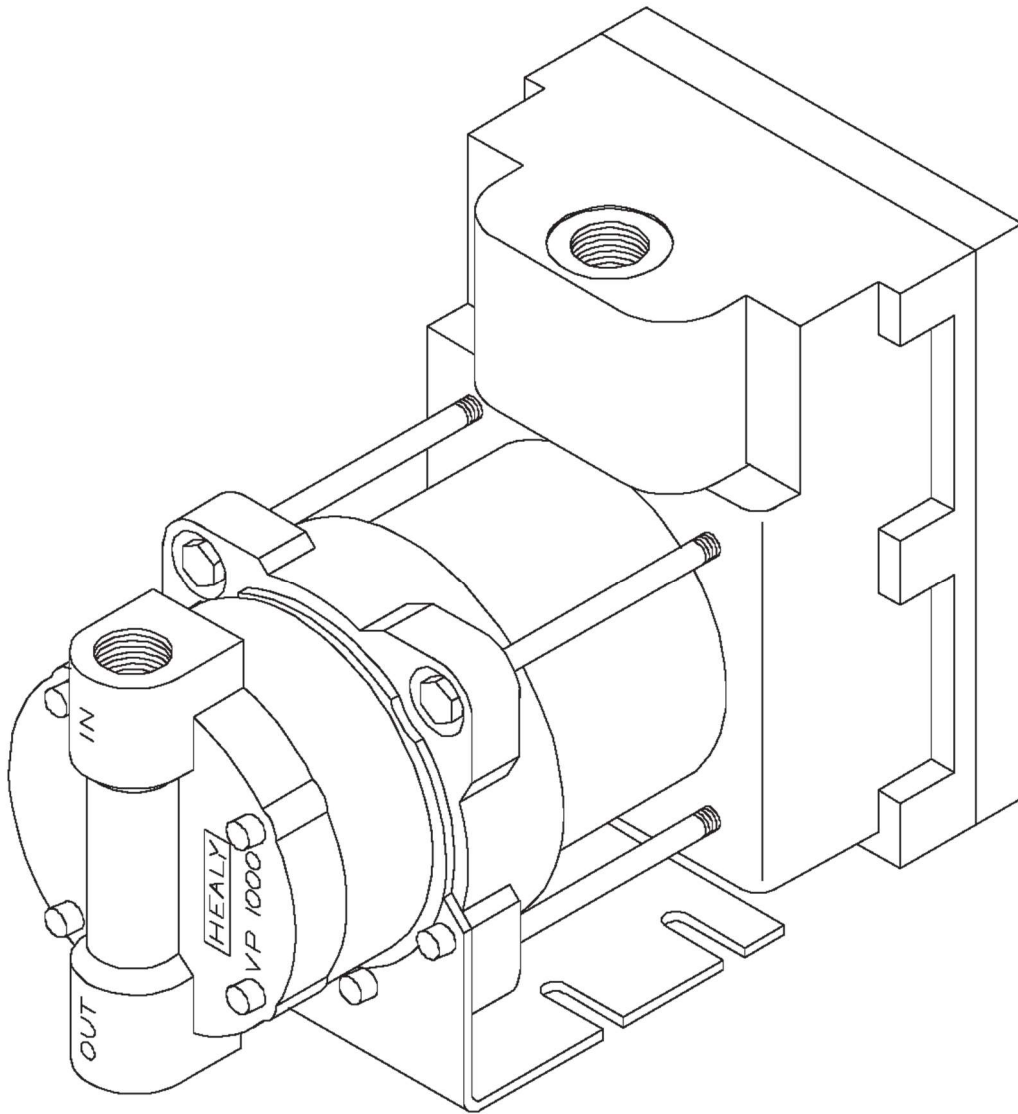**FIGURE 1-12**
Healy Model 1301 Flow Limiter

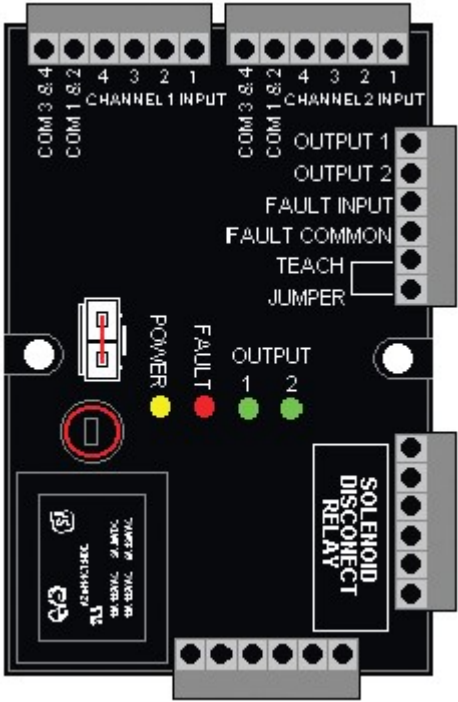**FIGURE 1-13**
Healy Model 1302 Flow Limiter

FIGURE 1-14
Healy Model 1302 Flow Limiter
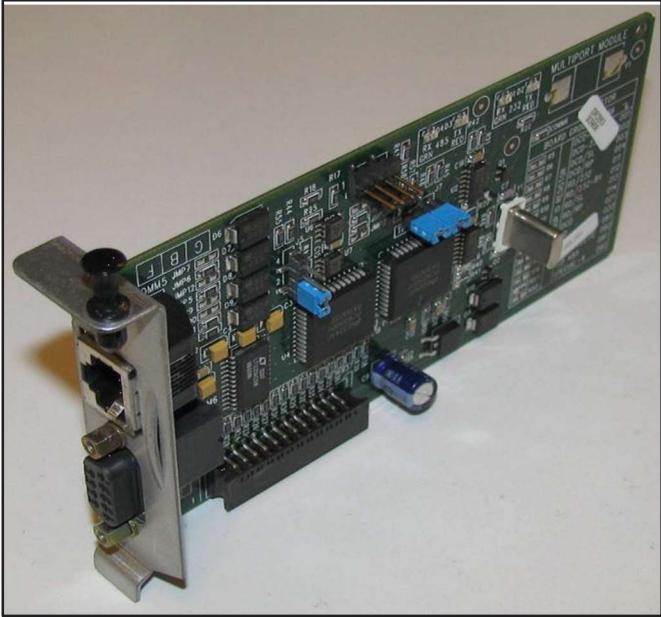
FIGURE 1-15
Healy Model VP1000 Vacuum Pump

FIGURE 1-16
MC 100 Control Module

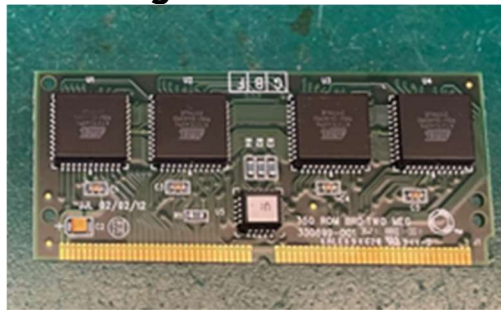
FIGURE 1-17
Maintenance Tracker Technician Key

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

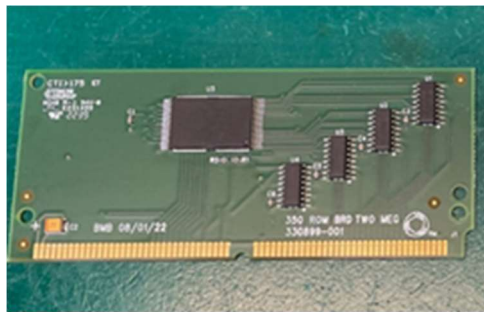# Figure 1-19
TLS 350 Plus ROM Board
(ROM Part# 330899-001)

Original ROM Board

Certified Alternative ROM Board

FIGURE 1-20
ARID Permeator AT-150

Serial Number Location (inside cabinet on left door)

Figure 1-21
Husky Model 008332 (M34 type) and 014592 Magbreak Safe-T-Break Breakaway

Husky Model 008632 (M34 type) and 015416 Magbreak Safe-T-Break Bottom Half

Figure 1-22
Husky Models 004034 (M34 type) and 006560 Standard Safe-T-Break Breakaway
(Re-connectable)

Black Sleeve

(Note: Black Sleeve Indicates breakaway is reconnectable)

Figure 1-23
Husky Models 005134 (M34 type) and 015377 Standard Safe-T-Break Breakaway
(Non Re-connectable)

Silver Sleeve

(Note: Silver Sleeve indicates that breakaway is non-reconnectable)

Figure 1-24
Husky Model 004605 (M34 type) and 014620 VR Swivel

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

Component	Manufacturer/Model
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 Trap[1]	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

RISER w/LIQUID SENSOR

PRODUCT PIPING MONITORING RISER

INCON TSP-K2A RISER CAP & ADAPTER MUST USE A REDUCER ON 3" RISERS

SUCTION RISER with Fittings/Components per Exhibit 1 of the Executive Order

FUEL ENTRY POINT

TRANSITION SUMP

BRAIDED SS HOSE OR ¼" COPPER TUBING TO TURBINE PUMP

VAPOR LINE (SLOPE ⅛" PER FOOT MIN.)

LIQUID SENSOR

FRP CONTAINMENT PIPE

VAPOR LINE (SLOPE ⅛" PER FOOT MIN.)

INTERSTITIAL RISER

LIQUID CONDENSATE TRAP

LIQUID SENSOR

LIQUID SENSOR

ALUMINUM w/ STAINLESS STEEL CLAMP

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).

RISER w/ LIQUID SENSOR
PRODUCT PIPING
MONITORING RISER

INCON TSP-K2A RISER CAP & ADAPTER
Must use a Reducer on 3" Risers

SUCTION RISER with Fittings/Components per Exhibit 1 in the Executive Order

FUEL ENTRY POINT

VAPOR LINE (SLOPE ⅛" PER FOOT MIN.)

BRAIDED SS HOSE OR ¼" COPPER TUBING TO TURBINE PUMP

FRP CONTAINMENT PIPE

VAPOR LINE (SLOPE ⅛" PER FOOT MIN.)

TRANSITION SUMP

LIQUID SENSOR

LIQUID CONDENSATE TRAP

LIQUID SENSOR

ALUMINUM SCREEN /STAINLESS STEEL INSECT SCREEN w/ STAINLESS STEEL CLAMP