



2009

Schedule E

**FOAMLOGIX® 3.3 & 5.0 ELECTRONIC FOAM PROPORTIONING SYSTEM**

Sales Order Number: \_\_\_\_\_ Date: \_\_\_\_\_  
 Ordered By: \_\_\_\_\_ Customer: \_\_\_\_\_  
 Hale Customer#: \_\_\_\_\_ Customer PO# \_\_\_\_\_  
 Customer Job/Truck #: \_\_\_\_\_ Due Date: \_\_\_\_\_  
 Fire Dept: \_\_\_\_\_ Fire Dept. Contact: \_\_\_\_\_  
 Fire Dept Phone: \_\_\_\_\_ Fire Dept. Fax: \_\_\_\_\_

**HALE FOAM LOGIX ELECTRONIC SERIES SYSTEM ORDERING PROCEDURES**

All Hale Foam Logix electronic foam systems are matched to provide a completely integrated, electronically controlled, rotary gear pump, discharge side, direct injection foam proportioning system. Use of the following checklist will ensure a complete system is ordered. Ordering a Hale foam system is accomplished using a 5 step process.

**NOTE:** Before selecting a Hale Foam Logix System refer to Hale Foam product information update (Bulletin 961) to ensure proper system application.

- Step 1:** Identify foam concentrate(s) being used and check system compatibility using Hale Foam Concentrate Compatibility list (Bulletin 650). Determine desired foam concentrate flow rate and select Hale Foam system model.
- Step 2:** Determine whether a single or dual foam concentrate tank system is installed and select the type of selector valve, strainer and low tank sensor desired.
- Step 3:** Determine the size and number of foam capable discharges installed on the apparatus and select flowsensor. When determining the size of flowsensor on the apparatus, determine the minimum and maximum water flows and select flowsensor accordingly.
- Step 4:** Select additional system options such as waterway check valves, Hale manifolds, Hale flanges and foam tanks that ease system installation.
- Step 5:** Fax the completed form to Hale Products Inc. Customer Service Department at **610-825-9615** for order entry and processing.

**STEP 1 SELECT HALE FOAM SYSTEM MODEL, Part Number 501-4170-00-0**

All Hale E-Series systems include: Foam pump/motor assembly, control unit and check valve/injector fitting.

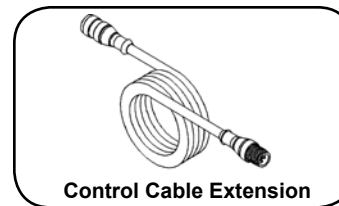
**BASE PUMP SELECTION:** Make selection by circling the list price of the model/voltage desired.

MODEL	RATED CAPACITY	MAX. OPERATING PRESSURE	12 VDC	24 VDC	QTY
5.0	5.0 GPM (19 LPM)@ 125 PSI (8.5 BAR)	250 PSI (17 BAR)	\$7,214	\$7,521	
3.3	3.3 GPM (12 LPM)@ 125 PSI (8.5 BAR)	400 PSI (28 BAR)	\$6,111	\$6,111	



**FEATURE A - SELECT CABLE LENGTH OF CONTROL CABLE EXTENSION:** The base unit comes with a 5 ft. (1.5M) control cable pigtail and the display comes with another 6 feet for a total of 11 feet as standard without the added extension. A 6-Pin shielded extension control cable is available for each base pump. Select cable extension length below by circling the list price and indicating the quantity. Many installations do not require an extension.

6-PIN CONTROL CABLE LENGTH (INDICATE QUANTITY OF CABLES) (MAXIMUM LENGTH 40 FEET (12 M))			
6.6 FEET (2 M)	QTY	16.4 FEET (5 M)	QTY
\$85		\$117	



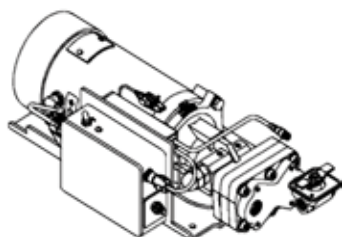
# STEP 2

## SELECT NUMBER OF FOAM CONCENTRATE TANKS INSTALLED ON APPARATUS:

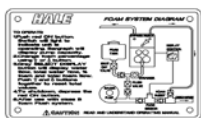
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### SINGLE FOAM CONCENTRATE TANK SYSTEM:

	SELECTOR		INSTRUCTION PLACARD	OPTIONAL WIRING HARNESS EXTENSION	
	QTY	PRICE EACH		QTY	PRICE EACH
<b>FEATURE - B</b>	MST	\$876	\$159		\$31
<b>FEATURE - C</b>	By-pass Valve Only	\$157	\$159		



Foam Pump and Motor Assembly shown with By-pass Valve for MDT II, MST and No-Flush Option



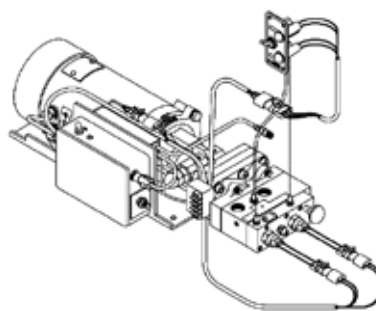
Single Tank System Instruction Placard (Required for NFPA Compliance)



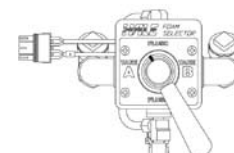
MST

### DUAL FOAM CONCENTRATE TANK SYSTEM:

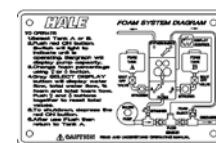
	SELECTOR		INSTRUCTION PLACARD	COLOR CODED AIR EXTENSION HARNESS		OPTIONAL WIRING HARNESS EXTENSION	
	QTY	PRICE EACH		QTY	PRICE EACH		
<b>FEATURE - D</b>	ADT (12 VDC)	\$2,237	INCLUDED		\$78		\$42
	ADT (24 VDC)	\$2,237	INCLUDED		\$78		\$42
<b>FEATURE - E</b>	MDT II	\$1,373	\$159				\$42



Foam Pump and Motor Assembly shown with Air Dual Tank (ADT) System



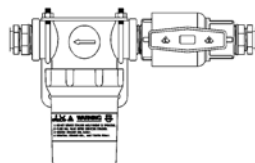
MDT II



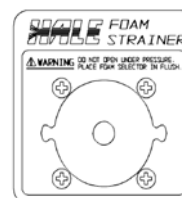
Dual Tank System Instruction Placard (Required for NFPA Compliance)

**FEATURE F - SELECT STRAINER:** The in-line strainer/valve assemblies can be used with both Class A & Class B foam concentrate lines. The panel mounted FS series strainers must be selected when the strainer is subject to flushing water pressure such as after an MST or MDTII. Make appropriate selection(s) by circling the list price.

FOAM CONCENTRATE STRAINER OPTIONS		
	TANK A (CLASS A FOAM)	TANK B (CLASS B FOAM)
IN-LINE STRAINER/VALVE ASSEMBLY	\$213	\$213
FS15 STRAINER	\$573	
FS25 STRAINER	\$783	\$783



In-Line Strainer/Valve Assembly



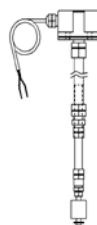
Panel Mount FS15 Strainer



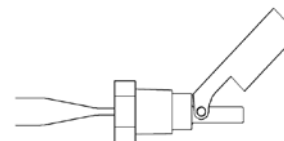
Panel Mount FS25 Strainer

**FEATURE G - SELECT LOW TANK SENSORS:** One sensor required for each foam concentrate tank: Make appropriate selection(s) by circling the list price.

TANK SENSOR OPTIONS		
	TANK A (SINGLE TANK)	TANK B
TOP MOUNT SENSOR	\$358	\$358
SIDE MOUNT SENSOR	\$89	\$89
BOTTOM MOUNT SENSOR	\$126	\$126



Top Mount Sensor



Side Mount Sensor



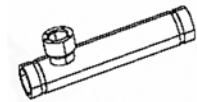
Bottom Mount Sensor

# STEP 3 SELECT FLOWSENSOR

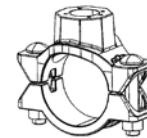
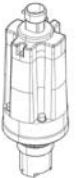
Each Hale Foam Logix Electronic System requires one flowsensor to operate. Select flowsensor from the following options. When selecting flowsensor keep in mind the maximum and minimum water flow requirements of the monitored discharge.

MODEL	DESCRIPTION	KIT PART NUMBER	MOUNTING CONNECTION	FLOW RANGE	LIST PRICE
FLOWSENSORS					
F30	CLASS 1 PADDLE WHEEL (P/N 102714)	538-1810-30-0	3" SADDLE CLAMP (P/N 4844010)	50-1250 GPM (189-4731 LPM)	\$552
F25	CLASS 1 PADDLE WHEEL (P/N 102714)	538-1810-25-0	2-1/2" SADDLE CLAMP (P/N 4843010)	30-800 GPM (114-3028 LPM)	\$552
F20	CLASS 1 PADDLE WHEEL (P/N 102714)	538-1810-20-0	2" SADDLER CLAMP (P/N 4842010)	20-550 GPM (76-2082 LPM)	\$552
VF15	CLASS 1 PADDLE WHEEL (P/N 102714)	538-1810-15-0	1-1/2" WELDMENT (P/N 582-0330-00-0)	10-350 GPM (38-1325 LPM)	\$552
WF	CLASS 1 PADDLE WHEEL (P/N 102714)	538-1810-00-0	FLOWMETER MOUNTING WELD BOSS (P/N 082-3060-00-0)	SEE PIPE SIZE ABOVE	\$536
SCV			3" VIC X VIC WITH SINGLE CHECK VALVE AND 1/2" FEMALE NPT INJECTION POINT	20-1000 GPM (76-3785 LPM)	\$965
DCV*			3" VIC X VIC WITH DUAL CHECK VALVE AND 1/2" FEMALE NPT INJECTION POINT	20-850 GPM (76-3217 LPM)	\$1125

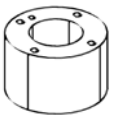
STYLE VF - VICTAULIC NIPPLE 1-1/2" ONLY



PADDLEWHEEL



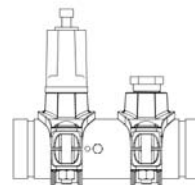
STYLE F SADDLE CLAMP



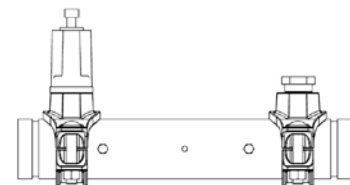
STYLE WF WELDED STUB

All of the above selections include paddlewheel

\*A double check valve is recommended in order to comply with NFPA requirements.



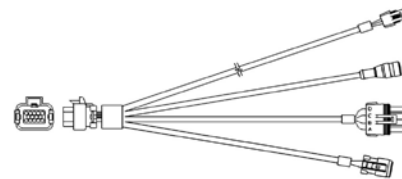
STYLE SCV



STYLE DCV

**FEATURE I - SELECT FLOWSENSOR CABLE:** A shielded flowsensor cable is required. Indicate the flowsensor and select cable length below by circling the list price

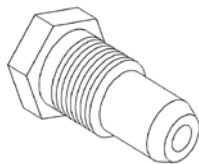
FEATURE I FLOWSENSOR CABLE SELECTION (PLEASE PICK ONE)		
10 FEET	20 FEET	30 FEET
\$104	\$111	\$116



FLOWSENSOR CABLE

**FEATURE J - One Check Valve/Injector Fitting is required**

FEATURE J CHECK VALVE/INJECTOR FITTING
\$35



Check Valve/Injector Fitting

**FEATURE H - Remote Start/Stop Option**



FEATURE H Remote Start/Stop Option
\$346

## STEP 4 SELECT ADDITIONAL SYSTEM OPTIONS (Schedule E or F)

ITEM	DESCRIPTION	PART NUMBER	QTY	LIST PRICE
<b>WATERWAY CHECK VALVES (Schedule E)</b>				
3 INCH CHECK VALVE	TYPE 115 4-BOLT, 4-3/8 INCH BOLT CIRCLE, 750 GPM (2839 LPM) MAX FLOW	038-1570-00-0		\$550.00
4 INCH CHECK VALVE	TYPE 2433 8-BOLT, 5-3/4 INCH BOLT CIRCLE, 1250 GPM (4739 LPM) MAX FLOW	038-1570-04-0		\$1023.00
<b>POWER FILTER KITS (Schedule E)</b>				
12V POWER FILTER	12VDC POWER FILTER KIT	546-1870-00-0		\$198.00
24V POWER FILTER	24 VDC POWER FILTER KIT	546-1870-01-0		\$229.00
<b>WATERWAY CHECK VALVE MOUNTING FLANGES (Schedule F)</b>				
115-3 FLANGE	3 INCH NPT THREAD, TYPE 115 4-BOLT, 4-3/8 INCH BOLT CIRCLE FLANGE	115-0080-00-0		\$94.00
115-2-1/2 FLANGE	2-1/2 INCH NPT THREAD, TYPE 115 4-BOLT, 4-3/8 INCH BOLT CIRCLE FLANGE	115-0070-00-0		\$60.00
2433D-4 FLANGE	4 INCH NPT THREAD, TYPE 2433 8-BOLT, 5-3/4 INCH BOLT CIRCLE FLANGE	115-0040-00-0		\$142.00
<b>MANIFOLD (Schedule F)</b>				
MINI-MANIFOLD	TYPE 115 BOLT PATTERN PROVIDING 1 INLET AND UP TO 4 OUTLETS 1 INCH NPT PIPE TAP AT INLET FOR CHECK VALVE/INJECTOR FITTING	178-0320-02-0		\$340.00
<b>ADDITIONAL FLANGES AND GASKETS (Schedule F)</b>				
115-2 FLANGE	2 INCH NPT THREAD, 4-BOLT, 4-3/8 INCH BOLT CIRCLE FLANGE	115-0060-00-0		\$60.00
115-B FLANGE	BLANK, 4-BOLT, 4-3/8 INCH BOLT CIRCLE FLANGE	115-0050-00-0		\$43.00
115 GASKET	USE WITH TYPE 115 BOLT CIRCLE FLANGES AND CHECK VALVES	046-0050-00-0		\$5.48
2433D-3 FLANGE	3 INCH NPT THREAD, 8-BOLT, 5-3/4 INCH BOLT CIRCLE FLANGE	115-0030-00-0		\$142.00
2433D-2-1/2 FLANGE	2-1/2 INCH NPT THREAD, 8-BOLT, 5-3/4 INCH BOLT CIRCLE FLANGE	115-0020-00-0		\$119.00
2433D-B FLANGE	BLANK, 8-BOLT, 5-3/4 INCH BOLT CIRCLE FLANGE	115-0010-00-0		\$87.00
2433 GASKET	USE WITH TYPE 2433 BOLT CIRCLE FLANGES AND CHECK VALVES	046-0040-00-0		\$2.66
<b>ELBOWS (Schedule F)</b>				
2H98 CLOSE FIT FLANGED	2-1/2 INCH NPT X TYPE 115 FLANGE 90° ELBOW	098-0050-00-0		\$151.00
CLOSE FIT FLANGED	3 INCH VICTAULIC X TYPE 115 FLANGE 90° ELBOW	098-0140-00-0		\$162.00
CLOSE FIT FLANGED	3 INCH NPT or 4 INCH VICTAULIC X TYPE 2433 FLANGE 90° ELBOW	098-0190-00-0		\$644.00
FLANGED	TYPE 115 FLANGE X TYPE 115 FLANGE 90° ELBOW	098-0020-00-0		\$170.00
<b>ADDITIONAL MANUALS:</b> Two (2) sets of FoamMaster System and appropriate accessory manuals are provided with each system.				
MANUAL	DESCRIPTION, INSTALLATION AND OPERATION MANUAL	029-0020-68-0		\$37
MANUAL	HALE MST DESCRIPTION, INSTALLATION AND OPERATION MANUAL	029-0020-48-0		\$37
MANUAL	HALE MDT II DESCRIPTION, INSTALLATION AND OPERATION MANUAL	029-0020-40-0		\$37
<b>NOTE:</b> There is no additional discount for training and promotional items				
<b>ADDITIONAL ACCESSORIES</b>				
ITEM	DESCRIPTION	PART NUMBER	QTY	LIST PRICE