

# Hale Qmax UltraView SmartCAFS Order Specification 2024

Customer Name: \_\_\_\_\_ Customer P.O. NO.: \_\_\_\_\_  
 Order Prepared By: \_\_\_\_\_ Hale Customer NO.: \_\_\_\_\_ Date: \_\_\_\_\_  
 Fire Dept. Name: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_  
 Fire Department Contact Information (For Delivery Program): \_\_\_\_\_  
 Requested Delivery Date: \_\_\_\_\_ Max. Elevation for Pump Test: \_\_\_\_\_ FT  
 Reference Specifications: \_\_\_\_\_  
 Engine: Mfr: \_\_\_\_\_ Model: \_\_\_\_\_ Horsepower: \_\_\_\_\_  
 @ \_\_\_\_\_ RPM  
 Full Load Governed RPM: \_\_\_\_\_ Peak Torque: \_\_\_\_\_ LB/FT @ \_\_\_\_\_ RPM  
 Application confirmed with: (for applications not on list)

Pump Model	Schedule A Discount
1 Qmax 1000 GPM	\$29,652
2 Qmax 1250 GPM	\$29,652
3 Qmax 1500 GPM	\$29,652
4 Qmax 1750 GPM	\$29,652
5 Qmax 2000 GPM	\$29,652
6 Qmax 2250 GPM	\$29,652
7 Qmax 4000 LPM	\$29,652
8 Qmax 5000 LPM	\$29,652
9 Qmax 6000 LPM	\$29,652
10 Qmax 7000 LPM	\$29,652
11 Qmax 8000 LPM	\$29,652

Rating based on (3) 6-inch suction hoses per NFPA

## Pump Configuration includes:

- Three (3) Alloy Anodes (2 suction, 1 discharge)
- Thermal Relief Valve 120 (on Port B)
- Mechanical Seal
- 4" Air Operated tank valve (on Port S) (includes tank to pump check valve)
- Tachometer Drive (no cable or panel adapter)
- VPS Shift with Control

NFPA Pump Light Kit	Schedule A Discount
1 No Light Kit	\$0
2 NFPA Midship Light Kit	\$412

Pump Manual	Schedule A Discount
1 USB Version (x2)	\$0
2 Paper Manual Option	\$550

NFPA Panel Placard	Schedule A Discount
1 No Panel Placard	\$0
2 Stamped S/N Placard	\$56

Paint Option	Schedule A Discount
1 Hale Black Finish Coat	\$0
2 Hale Silver Finish Coat	\$450
3 Hale Red Finish Coat	\$450

Pump Body Configuration	Schedule A Discount
Selection Number	1 2 3
Priming System	Schedule A Discount
1 No primer	\$0
2 ESP-12 w/ PVG Valve	\$1,405
3 ESP-12 w/ SPV Valve	\$2,638
4 ESP-24 w/ PVG Valve	\$2,254
5 ESP-24 w/ SPV Valve	\$3,647

Suction Extension	Schedule A Discount
Price	LEFT RIGHT
\$638 (178-0063-00-0)	
\$812 X Bottom (178-0063-01-0)	
\$370 OMIT	

Port Locations	O	P	T
Cast Solid			STD
3 Inch (4 Bolt)	STD	STD	
4 Inch (8 Bolt)		\$424	\$500
6-3/8 Inch (12 Bolt) Port T w/ 6-3/8 inch opening is required on 2250 GPM pump			\$727

Pressure Control Options	Schedule A Discount
1 No Relief Valve (port plug)	\$398
2 TPM Relief Valve System	\$7,334
3 Dual TPM with PMD control Requires 2250 GPM (rating based on (3) 6-inch suction hoses per NFPA)	\$11,788

Pressure Governor Options	Schedule A Discount
1 Sentry Pressure Governor with Twister Throttle Control	\$3,270
2 Sentry Pressure Governor Only	\$2,508

Drive Unit	Schedule A Discount
Drive Unit with Mechanical Seal	
LC	\$11,531
XC	\$12,217

Drive Shaft	Schedule A Discount
1 Split Shaft - No Control Valve	\$0
2 Split Shaft - With Control Valve	\$351
3 PTO Drive - No Through Shaft	\$2,362

Drive Unit Shift and Tach Cable (VPS with control included in pump configuration)	Schedule A Discount
Auxiliary Override Option	
1 Manual Shift Override, 72" Cable	\$1,968
2 Manual Shift Override, 55" Cable	\$2,010
3 NLA	NLA
4 Manual Shift Override, 130" Cable	\$2,246
Tachometer (G series only)	
1 Panel Adapter Only	\$194
2 Cable and Panel Adapter	\$458

Suction Tubes Discount		Schedule A	
Price	NST x Length	LEFT	RIGHT
\$442	6 x 4		
\$399	6 x 6		
\$402	6 x 7		
\$460	6 x 9		
\$237	1 Inch Spacer *		
\$173	OMIT		
\$2,308	Fill Thief *		

\*Note: Fill Thief requires an MIV. Fill Thief fitting is exposed and requires a notched pump panel.

\*1 inch spacer required on either side if MIV is selected

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Tank Suction Discount		Schedule A	Optional Right T (8 bolt)*	Optional Right T (12 bolt)*
S opening is standard and includes 4" SVS with 4 inch NPT/5 inch Victaulic connector, 8-bolt 3.5" pump mount adapter (841-4006-06-0), corrosion resistant check valve. Special machining for T bolt is optional and an additional cost.				
Flanges				
Blank			\$38	
3 Inch NPT			\$188	
3 Inch NPT 4° angle			\$216	
4 Inch NPT			\$209	
4 Inch NPT 4° angle			\$243	
6 Inch NPT*				\$425
5 Inch Victaulic **				\$682
5 Inch Victaulic angled **				\$224
6 Inch Victaulic **				\$733
6 Inch Victaulic angled **				\$1,225
Check Valve Only			\$177	
Check Valve with Plate (required with 4 Inch NPT flange)			\$494	
MIV-E **				\$5,844
MIV Air Bleeder Valve (ABV)				\$252
MIV Extension Harness				\$192
MIV Relief Valve SS 2-1/2 Inch NPT				STD
MIV Relief Valve SS 2-1/2 Inch NST				\$0
MIV Relief Valve SS 2-1/2 Inch VIC				\$0
Direct Mount for Valve			\$0	\$0

MIV requires 6 MPT, 5 Victaulic, 5 Victaulic Angle, 6 Victaulic Angle Flange. Make selection above

\* 4 Inch (8 bolt) special machining required

\*\* 6-3/8 Inch (12 bolt) machining required

Master Intake Valve		Schedule A Discount			
check box(es) of option desired					
	MIV Relief Valve	Price	Left	Right	Loose
1	MIV-M (Side Mount)	\$4,094			
2	MIV-E (Side Mount)	\$5,651			
3	MIV-E (Bottom Mount Front Operation)	\$5,844			
4	MIV-E (Bottom Mount Rear Operation)	\$5,844			
5	ABV Air Bleeder Valve	\$252			
6	Extension Harness	\$192			
7	Stainless Steel 2-1/2 Inch NPT	STD			
8	Stainless Steel 2-1/2 Inch NST	\$0			
9	Stainless Steel 2-1/2 Inch VIC	\$0			

NOTE: MIV Bottom mount valves require a 6 NPT, 5 Victaulic or 6 Victaulic flange to attach piping. Refer to SUCTION FLANGES Selection.

NOTE: When bottom MIV is ordered on right side, the heat exchanger moves to Port N and PG 30 is mounted at Port F

Anode Pro Discount		Schedule A
Anode Pro consists of an Anode Minder Monitor Box that can monitor up to three Intelligent Anodes. Anode Pro with Minder does not include the Intelligent Anodes.		
1	None	\$0
2	Anode Pro with Minder	\$396

Suction Flanges		Schedule A Discount						
circle desired option								
	PRICE	LEFT			RIGHT			
		U	UT	Bottom	V	VT	XT	Bottom
Open / Blank	\$17							
2-1/2 Inch	\$86							
2-1/2 Inch angled	\$168							
3 Inch	\$134							
3 Inch angled	\$148							
Magnesium Anode with Flange	\$274							
Alloy Anode with Flange	\$164		STD			STD		
Intelligent Anode with Flange	\$248							
6 Inch NPT	\$425							
5 Inch Victaulic	\$682							
5 Inch Victaulic angled	\$224							
6 Inch Victaulic	\$733							
6 Inch Victaulic angled	\$1,225							

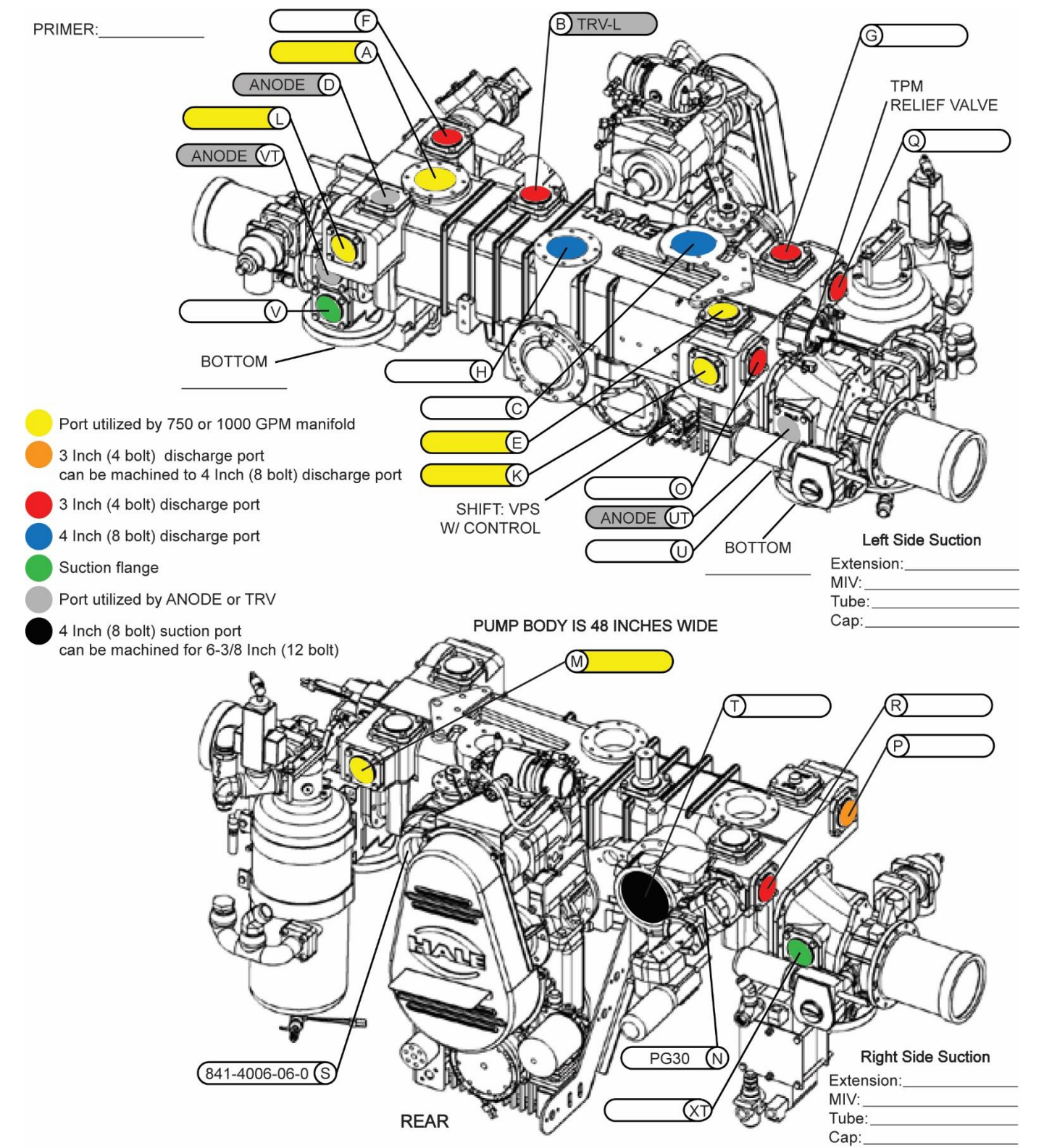
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Desired panel width (in inches)			
70"	72"	74"	76"

Pro Tech Warranty on PUMP (fire service applications only) discounts		Net price, no
Standard 5 Year Warranty (parts and labor for the first 2 years, parts only in years 3-5)		\$0
Pro Tech Warranty – 1 additional year of labor		\$250
Pro Tech Warranty – 2 additional years of labor		\$750
Pro Tech Warranty – 3 additional years of labor		\$1,500

The next section shows all the available port options on the pump. Use the graphics to fill out and reference what options you would like then fill out the following price sheet to calculate the cost of the options.

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**NOTE ON DISCHARGE CONFIGURATION:**  
(1). PG30 normally mounted at Port "N" and Heat Exchanger is mounted at Port "X" on right suction extension. If a bottom MIV is selected on the right side, the Heat Exchanger is mounted at Port "N" and the PG30 is mounted at Port "F". (2). 1000 GPM Manifold blocks ports A, K, and L or A, D, and E depending on configuration. See Manifold Configuration Sheets.

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Discharge Flanges (circle desired options)					Schedule A Discount											
STANDARD OPENINGS																
Flanges (115 or 2433 bolt pattern unless otherwise indicated)																
		4" (8 bolt)				3" (4 bolt)										
	Price	A	C	H	Price	B	D	E	F	G	K	L	M	N	Q	R
Blank / Open	\$38				\$17											
1-1/4 Inch NPT					\$88											
2 Inch NPT					\$88											
2-1/2 Inch NPT	\$202				\$86											
2-1/2 Inch NPT 4° angle	\$209				\$168											
3 Inch NPT	\$188				\$134											
3 Inch NPT 4° angle	\$216				\$148											
4 Inch NPT	\$209															
4 Inch NPT 4° angle	\$243															
TRV120 with 115 flange					\$589											
TRV-L120 with 115 flange					\$965	STD										
TRV170 with 115 flange					\$764											
TRV-L170 with 115 flange					\$1255											
Magnesium anode w/ flange					\$274											
Alloy Anode w/ flange					\$164		STD									
Intelligent Anode w/ flange					\$248											
Hale direct mount for valve	\$0				\$0											
Hale mounted remote for valve	\$0				\$0											

Discharge Flanges (circle desired options)				Schedule A Discount			
SPECIAL OPENINGS							
These opening are standard as 3 inch (4 bolt) but can be machined for 4 inch (8-bolt) openings							
	O		P				
	3"	4"	3"	4"			
Blank / Open	\$17	\$38	\$17	\$38			
1-1/4 Inch NPT			\$88				
2 Inch NPT			\$88				
2-1/2 Inch NPT	\$86		\$86				
2-1/2 Inch NPT 4° angle	\$168		\$168				
3 Inch NPT	\$134	\$188	\$134	\$188			
3 Inch NPT 4° angle	\$148	\$216	\$148	\$216			
4 Inch NPT		\$209		\$209			
4 Inch NPT 4° angle		\$243		\$243			
TRV with 115 flange	\$589		\$589				
TRV-L with 115 flange	\$965		\$965				
Magnesium anode w/ flange	\$274		\$274				
Alloy Anode w/ flange	\$164		\$164				
Intelligent Anode w/ flange	\$248		\$248				
Hale direct mount for valve	\$0	\$0	\$0	\$0			
Hale mounted remote for valve	\$0	\$0	\$0	\$0			



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## SmartCAFS System

Schedule G Discount

Operator panel (For valve orientation): ☐ Top ☐ Side  
Pump compartment width (from inside operator panel to inside officer side panel): \_\_\_\_\_ Inches

### SmartCAFS Manifold Selection

**NOTE:** Manifolds are built standard with Hale valve flanges. See Manifold configuration sheets for valve configuration or other flange options.

- ☐ 1000 GPM manifold (up to 5 CAFS discharges)
  - Mounts at ports A, D, & E\$56,530
- ☐ 1000 GPM manifold (up to 5 CAFS discharges)
  - Mounts at side ports A, K, & L\$56,530
- ☐ 1000 GPM bypass manifold with deck gun bypass plumbing (up to 5 CAFS discharges)
  - Includes:
    - Deck Gun CAFS Electric Valve with Controller (10' harness)
    - Deck Gun Water Valve Mounted at Port H\$60,608

☐ Custom Manifolds [Upcharge, quoted per job]

Contact Hale for custom pricing

### Standard UltraView SmartCAFS system includes the following:

- 210 CFM rotary screw air compressor mounted and driven by the pump gearbox
  - Air pressure regulator assembly integrated into compressor
- Oil reservoir/separator tank mounted to pump and plumbed
- Water to oil heat exchanger mounted to pump and plumbed
- Programmable delayed start air compressor clutch
- Stainless steel manifold assembly mounted on pump and tested
  - 2 stainless steel water/foam solution check valves
  - Up to 5 CAFS discharge choices
  - Up to 2 foam solution discharge choices
  - Water flow sensors and pressure transducers
  - Foam and air injection check valves installed
  - 4 Hale X mixer flanges installed
  - ARC valve and operating cylinder
  - Complete UltraView SmartCAFS wiring harness (mounted, plumbed, and tested)
  - Foam proportioning system flow sensor cable
- (2) Air operated 6-port drain valves
  - Automatically drains SmartCAFS manifold
  - Pump drain
- Operating cylinder for tank to pump valve (Mounted, adjusted and tested)

### The following components are shipped loose with the Hale UltraView SmartCAFS system:

- UltraView SmartCAFS controller (7 Inch diagonal size color display)
- SmartCAFS sensor module
- 2 Installation & Operation manuals
- 4 Hale X mixers with seals for deck gun piping. (Installed in manifold when deck gun bypass is ordered)
- Hale UltraView SmartCAFS delivery and operation program at end user facility. *One day (6 hours) training within continental US*

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## FOAM PROPORTIONING SYSTEM MINIMUM REQUIRED STANDARD CONFIGURATION

The foam proportioning system is standard with a single foam tank system, NO FLUSH option, in-line strainer, and side mount sensor.

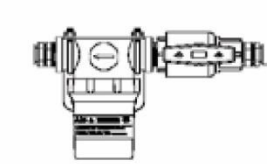
Required with the standard UltraView SmartCAFS	Voltage	Select One	Schedule G Discount
Foam Proportioner Model 3.3 (12VDC or 24VDC)	12V	24V	\$8,908
Foam Proportioner Model 5.0 (12VDC or 24VDC)	12V	24V	\$9,315
Foam Proportioner Model 6.5 (12VDC or 24VDC)	12V	24V	\$11,597
Foam Proportioner Model DUAL 6.5 (12VDC or 24VDC)	12V	24V	\$17,613

## OPTIONAL FOAM PROPORTIONING CONFIGURATION

If a dual foam tank system is specified or other type of strainer or low tank sensor are desired circle price of selection(s)

Below (a strainer and low tank level sensor are required).

Strainers, tank A (Class A Foam) Schedule G Discount	
FS15 Strainer	\$876
FS25 Strainer	\$1,195
Strainers, tank B (Class B Foam) Schedule G Discount	
In-line Strainer/Valve assembly	\$362
FS25 Strainer	\$1,195



In-line Strainer/Valve assembly



FS15 Strainer



FS25 Strainer

EZ-Fill, 5 GPM,		Schedule G Discount	
12 volt foam reservoir fill system			
	Single tank	501-4430-00-0	\$2,823
	Dual tank	501-4430-01-0	\$3,163
24 volt foam reservoir fill system			
	Single tank	501-4430-24-0	\$3,633
	Dual tank	501-4430-25-0	\$3,931

## All Hale EZ-Fill Single Tank System include:

- (1) EZ-Fill 5 GPM pump/electric motor assembly with 3-way Fill/Flush valve
- (1) Smart switch panel mounted control
- (1) Clear suction wand with cam lock fitting connection and integral strainer
- (1) Wiring harness complete with power and ground connections
- (1) Panel mounted cam lock pump panel mounted suction connection
- (1) Top mount high level tank switch
- (2) Cam lock caps

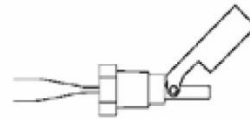
Single Tank System with FLUSH		Harness extension	
Schedule G Discount			
Selector	Instruction Placard	QTY	Price EA
MST	\$1,334	\$180	\$22

Dual Tank System with FLUSH		Harness Extension	
Schedule G Discount			
Selector	Instruction Placard	QTY	Price EA
ADT	\$3,661	\$180	\$96
12V 24V	ADT Color coded air harness		\$92
MDT II	\$2,083	\$180	\$107

Tank A Sensor Schedule G Discount	
Side Mount Sensor	STD
Bottom Mount Sensor	+\$131
Top Mount Sensor	+\$481
Tank B Sensor Schedule G Discount	
Side Mount Sensor	\$97
Bottom Mount Sensor	\$228
Top Mount Sensor	\$578



Top mount



Side mount



Bottom mount

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Air Injection Valve Option Discount			Schedule G
1	Air Valve (standard, no air flow display)		STD
2	Air Sensing Valve (air flow displayed on UltraView SmartCAFS)		\$3,687

Additional UltraView SmartCAFS Accessories (shipped loose) Discount			Schedule G
Part Number	Item Description		List Price
610-00038	Ultraview SmartCAFS controller for multiple panel operation. SmartCAFS can be setup to be used with up to 13 different controllers (includes only additional controllers)	QTY: _____	\$4,057 (per additional display)
538-00048-250	UltraView SmartCAFS Auto Tank Fill system 2-1/2 inch: Victaulic x Victaulic CAN controlled electric valve (200-00099-000) Shipped loose. Includes Class 1 master tank level gauge (4 light), pressure transducer, installation harnesses, check valve and inlet relief valve.		\$9,872
538-00048-300	UltraView SmartCAFS Auto Tank Fill system 3 inch: Victaulic x Victaulic CAN controlled electric valve (200-00099-000) Shipped loose. Includes Class 1 master tank level gauge (4 light), pressure transducers, installation harnesses, check valve and inlet relief valve.		\$10,004
826-0808-31-0	Manual Direct Tank Fill Valve 2-1/2 inch: Victaulic x Victaulic. Shipped loose. Includes electric valve operator and panel mount electric valve control.		\$4,983
115-1301-50-0	One mixer for use on portable deluge guns and other short hose line discharges. Slides into pipe between two grooved couplings.		\$716
32751484-F	Air/Water pressure duplex gauge (400 PSI gauge face) with push-on fittings		\$703
32751487-F	Air/Water pressure duplex gauge (400 PSI / 2800 KPA gauge face) with push-on fittings		\$703
	Additional consecutive days (6 hours) of Delivery & Operation training (same location)		\$2,200/day net
	Customized SmartCAFS training programs (i.e. Operation, Maintenance, etc)		Call 800-533-3569

NOTE: A minimum of a manual direct booster tank fill valve is required with SmartCAFS, but an Auto Tank Fill system is highly recommended.

## SmartCAFS Class 1 Stainless Steel Manifold Configuration

The Class 1 stainless steel manifold assembly includes stainless steel check valves and stainless steel motionless mixers in addition to Class 1 flow sensors and connections for air and foam injection.

Standard SmartCAFS manifold outlets are identified as follows:

- Up to 5 CAFS outlets: 01, 02, 03, 04, 05
- Up to 3 foam solution outlets: 11, 12, 13

Valve flanges can be replaced on the manifold at designated locations according to the following schedule:

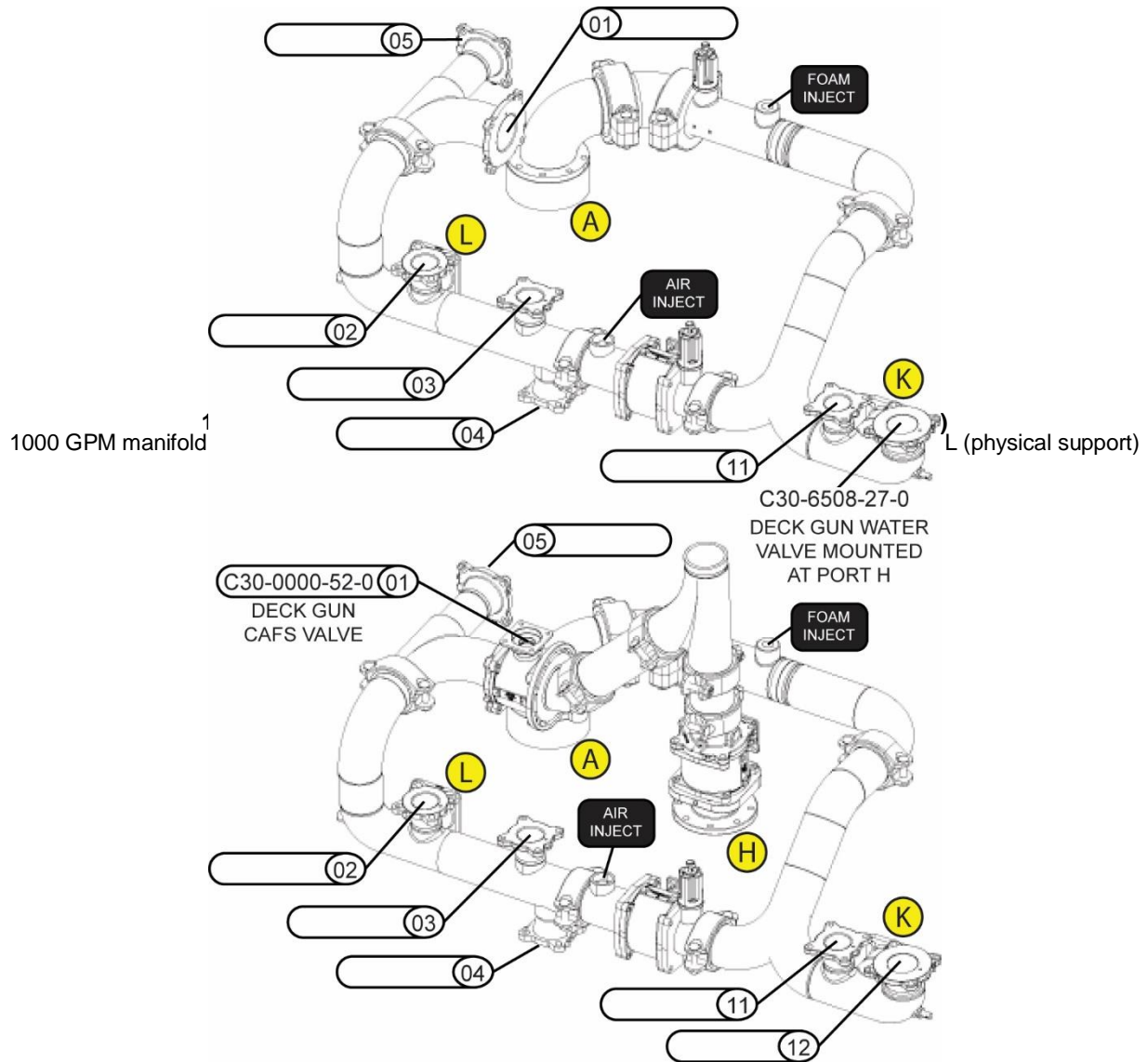
1. Replace with Hale 115 flange \$75.00 each opening
2. Replace with Victaulic grooved pipe \$50.00 each opening
3. Change Hale valve flange size \$75.00 each change
4. Change Victaulic pipe size \$125.00 each change
5. For other valve flange options consult factory

On those manifold outlets where a valve flange or alternate connection is not indicated will be left blank



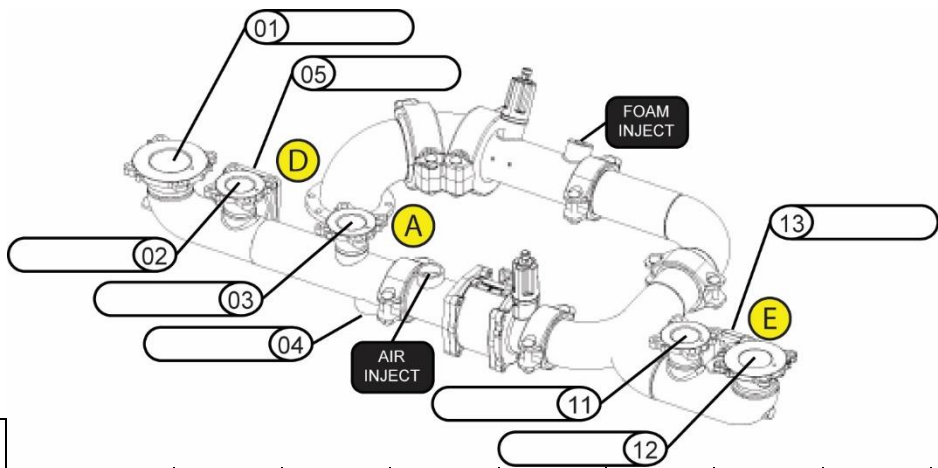
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## 1000 GPM MANIFOLD WITH 5 CAFS DISCHARGES (P/N 546-2540-14-0) 1000 GPM manifold mounts at ports A (inlet), K and L (physical support)



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1000 GPM MANIFOLD WITH 5 CAFS DISCHARGES (P/N 546-2540-11-0)  
1000 GPM manifold mounts at ports A (inlet), D and E (physical support)



OPT #	Connection									FOAM	
										12	13
01	Valve	3 Inch (30)	\$100								
01	Valve	2-1/2 Inch (25)	\$100								
01	Valve	2 Inch (20)	\$100								
02	115	3 Inch (30)	\$198								
02	115	2-1/2 Inch (25)	\$100								
02	115	2 Inch (20)	\$197								
03	Victaulic	3 Inch (30)	\$166								
03	Victaulic	2-1/2 Inch (25)	\$68								
03	Victaulic	2 Inch (20)	\$166								
00	Blank	(00)	\$0								