

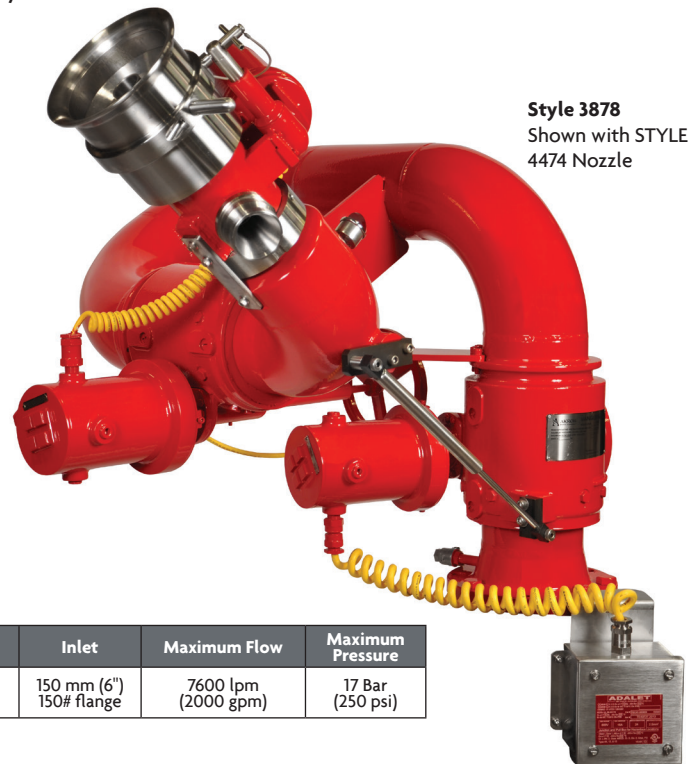
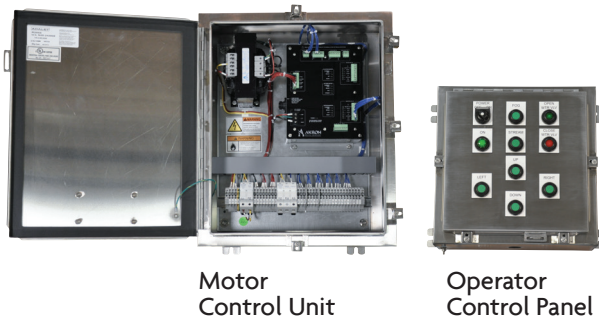
Vanquish Monitor

STYLE 3878 Electric Remote Controlled Monitor System

The Vanquish SST Stainless Steel, electric and manual, Monitor Systems have been engineered using the highest quality stainless steel waterways with flow capabilities up to 7600 lpm (2,000 gpm). When paired with the Style 4474 nozzle, effective foam reach capabilities can be achieved up to 80 meters (262 ft) at 7600 lpm (2000 gpm). The Vanquish offers superior quality and durability with advanced electronic controls designed to withstand extreme environmental conditions. This system is ideal for use in fire suppression, vapor mitigation and other demanding fixed site applications.

Features:

- Stainless steel material provides maximum corrosion protection extending the life of the product which translates to lower life cycle costs
- Large 150 mm (6") Waterway for reduced friction loss
- Exclusive nozzle and monitor geometry engineered with state-of-the-art fluid dynamic software and 3D CAD modeling
- Motor Control Unit and Operator Control Panel can be mounted at a safe distance away from the monitor for personnel safety (In the Remotely Controlled Systems Only)
- Entire remote monitor system and system controls are completely FM approved for NEC Class 1, Div 2, Groups C & D hazardous locations
- Meets or exceeds the Oil Industry Safety Directorate (OISD) Standard
- 5 year warranty
- Paint Options: Blue, Red, Safety Yellow, Safety Orange or to your specification



Vanquish Monitor

Style	Control	Weight	Height	Width	Outlet	Inlet	Maximum Flow	Maximum Pressure
3878	Electric	177 kg (390 lbs.)**	749 mm (29 1/2")	848 mm (33.4")	100 mm (4") NH	150 mm (6") 150# flange	7600 lpm (2000 gpm)	17 Bar (250 psi)

**Less nozzle

Variable Flow Self-Educting Nozzles

Style	Control	Flow		Inlet	Length	Weight	Maximum Pressure
		GPM	LPM				
4474	Electric	2000 1500 1000	7600 5700 3800	100 mm (4") NH	330 mm (13")	28 kg (62 lbs.)	17 Bar (250 psi)



Style 3878 Vanquish SST Remote Controlled Monitor	
Material	316L Stainless Steel construction
Maximum Flow	7600 lpm (2000 gpm)
Inlet	150 mm (6") (150 lb.) flange with drain valve
Outlet	100 mm (4") NH thread with pressure gauge
Waterway	150 mm (6") diameter internal
Friction Loss	0.4 bar (6 psi) at 7600 lpm (2000 gpm)
Rotation	340° rotation
Elevation	165°, +90° above to -75° below horizontal
Motors	Single phase, AC motors with IP66 weather protected housings
Manual Override	Permanently attached hand wheel
Axis Drive Mechanics	Self-locking worm and worm gear
Operating Temperatures	+60°C to -40°C (+140°F to -40°F)
Maximum Operating Pressure	17 Bar (250 psi)
Dimensions	749 mm (29 1/2") high, 945 mm (37.2") wide
Weight	177 kg (390 lbs.)
Electrical	230 VAC 1 Phase or 230/415 VAC 3 Phase, 50/60 Hz supplied to the Motor Drive Box
Maximum Reaction	2264 N (1670 Lbf) @ 2000 gpm (7600 lpm)
Force Moment (at the Inlet Base)	3254 N-M (2400 Lb-Ft) @ 2000 gpm (7600 lpm)
Control Panel Specifications	
Operator Inputs	Push button switches for: -Power on/off -Monitor Rotation (left/right) -Monitor Elevation (up/down) -Nozzle Pattern Control (stream/fog) -Water Control Valve (open/closed)
Input Voltage	24 VDC (generated in the Motor Control Unit)
Enclosure	NEMA 4X/increased safety
Enclosure Dimensions	406mm x 406mm x 152mm (16" L x 16" W x 6" H)
General System Specifications	
3rd Party Approvals	FM - Class 1, Div. 2, Groups C & D -T3C ATEX - II 3 G Ex nR IIC T6 Gc for monitor and nozzle - II 3G Ex nA nC IIC T6 GC for Motor control unit CE

Style 4474 Electric Non Aspirating, Self Educting, Stainless Steel Nozzle	
Material	316L Stainless Steel construction
Max Flow	7600 lpm (2000 gpm)
Flows	3800, 5700 & 7600 lpm (1000, 1500 & 2000 gpm) Field adjustable without tools
Pattern	Straight stream to 140° wide angle fog
Water Reach	85 m @7600 lpm (278 ft @ 2000 gpm) †
Inlet	100 mm (4") NH Thread
Foam Induction Rate	3% at 2800, 5700 & 7600 lpm (1000, 1500 & 2000 gpm)
Foam Reach	80 m (262 ft) @ 7600 lpm (2000 gmp) **
Foam Expansion	>5:1 (w/AFFF/AR – AFFF Fire Fighting Foam) **
Seals	Nitrile
Motors	Single phase, AC Motors with IP66 weather protected housings
Manual Override	Manual override is built into the actuator design
Operating Temperatures	+60°C to -40°C (+140°F to -40°F)
Maximum Operating Pressure	17 Bar (250 psi)
Dimensions	330mm x 406mm x 330mm (13" L x 16" W x 13" H)
Weight	28 kg (62 lbs.)
Electrical	Supplied by the Motor Control Unit
General System Specifications	
Electrical Rating	Class 1, Div. 2, Groups C & D
3rd Party Approvals	FM - Class 1, Div. 2, Groups C & D -T3C * ATEX - II 3 G Ex nR IIC T6 Gc

† Measured at 32° angle in calm conditions

* FM approved with Chemguard C303 3% AFFF Foam and Style 3032 Akron JRC only

** Reach and expansion can vary when used with different foam concentrates



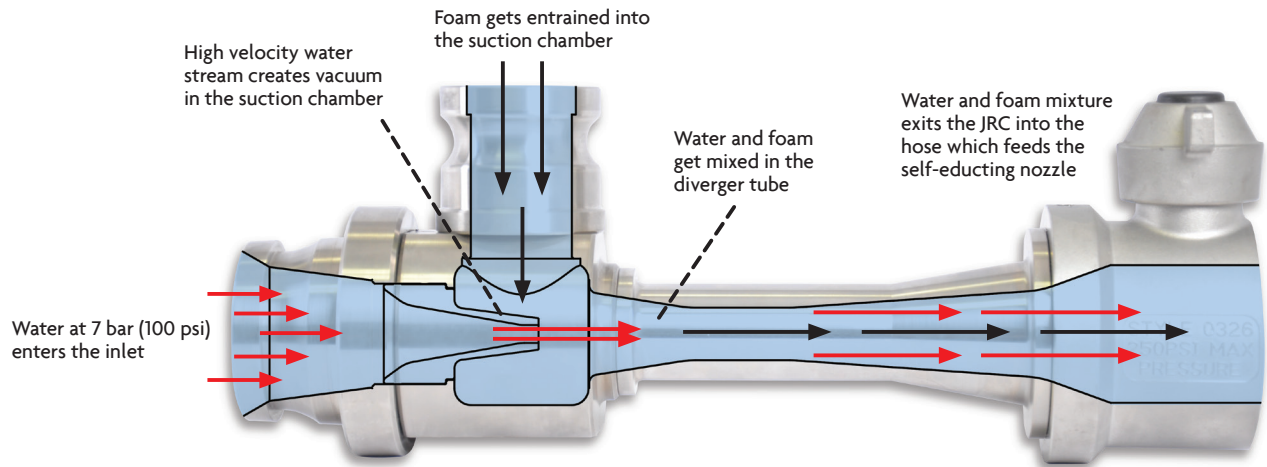
Style 3032 SST Jet Ratio Controller (JRC)

Designed to feed large volumes of foam from a safe location to a self-educing MasterStream nozzle. The JRC can deliver a 3% foam solution to a 7600 lpm (???) nozzle at distances up to 70 m (230 ft) away through 63 mm (2 1/2") hose while operating at 7 bar (100 psi) inlet pressure. The Style 3032 JRC is designed for use with the 4473 and 4474 self-educing nozzle.

- 3 m (10') pickup hose and 1 m (40") pickup tube (Stinger)
- Flows 84 lpm (22 gpm) of water and 57 - 115 lpm (15 - 30 gpm) of foam at 7 bar (100 psi) inlet pressure

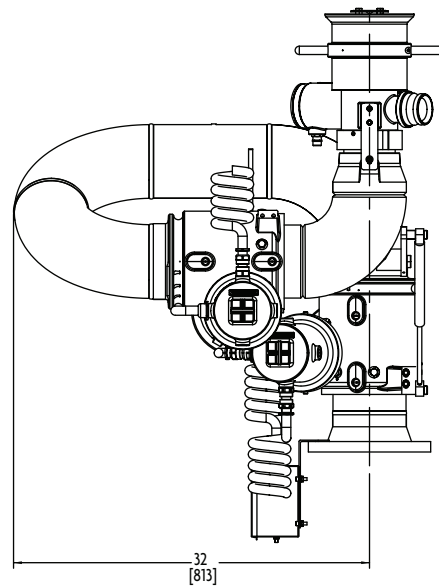
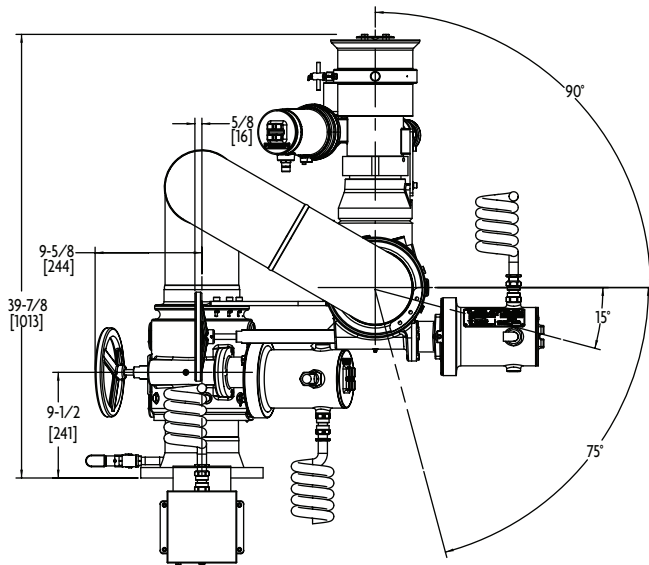
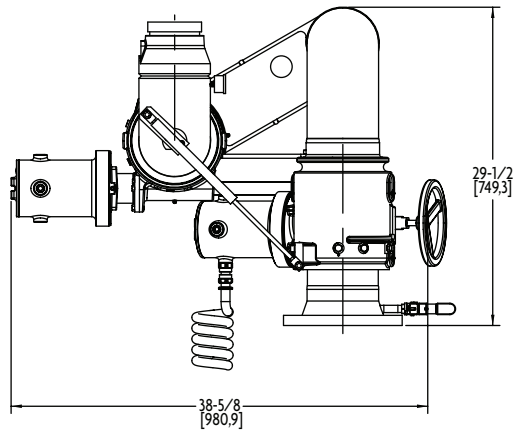
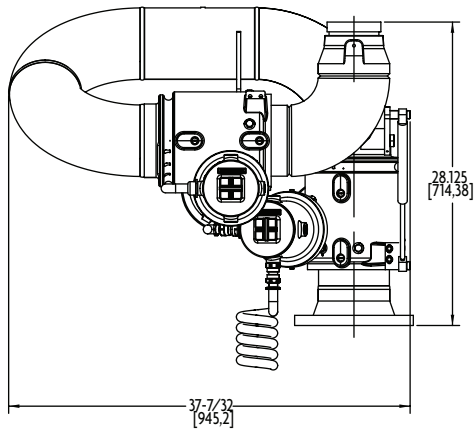
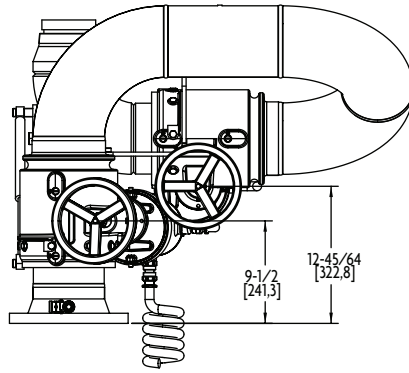
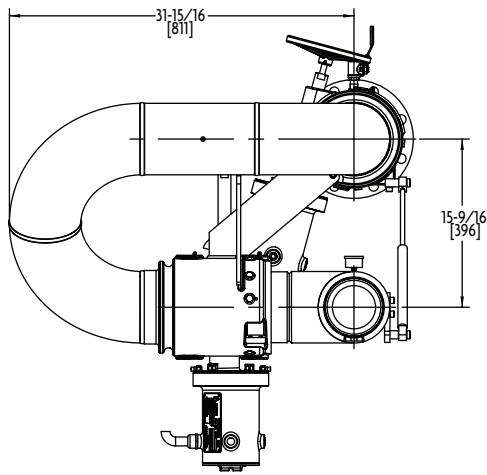


Style 3032 Jet Ratio Controller	
Material	316/316L Stainless Steel construction
Foam Induction Rate	Up to 3% at 1500, 2000 & 3800 lpm (000, 000 & 1000 gpm) Field adjustable without tools
Flows	Delivery of foam to Self-Educing Nozzle set at 3800, 5700, & 7600 lpm (1000, 1500 & 2000 gpm) Field adjustable without tools
Inlet	63 mm (2 1/2") Male Instantaneous
Outlet	63 mm (2 1/2") Female Instantaneous
Compatible Foam Types	AFFF/AR – AFFF
Inlet Pressure	7 bar (100 psi)
Pick up Tube Length	3.0 - 4.0 Meters (9.8' - 13.1')
Operating Temperatures	+60°C to -40°C (+140°F to -40°F)
Maximum Operating Pressure	17 Bar (250 psi)
Dimensions	389mm x 101mm x 141mm (15 5/16" L x 4" W x 5 5/16" H)
Weight	7.2 kg (16 lbs.)
3rd Party Approvals	-Factory Mutual (FM) when used with 3878 and 4474





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