AKRON
BRASS COMPANY

FM APPROVED

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CONQUEST™ SST

ISO 9001: Conforms to standard for Quality Management System
OHSAS 18001: Conforms to standard for Occupational Health and Safety Management System
Abides to the global act for anti-bribery and corruption with policies and practices

Conquest™ SST (Stainless Steel) Monitor

Style 3778 Electric Remote Controlled Monitor System

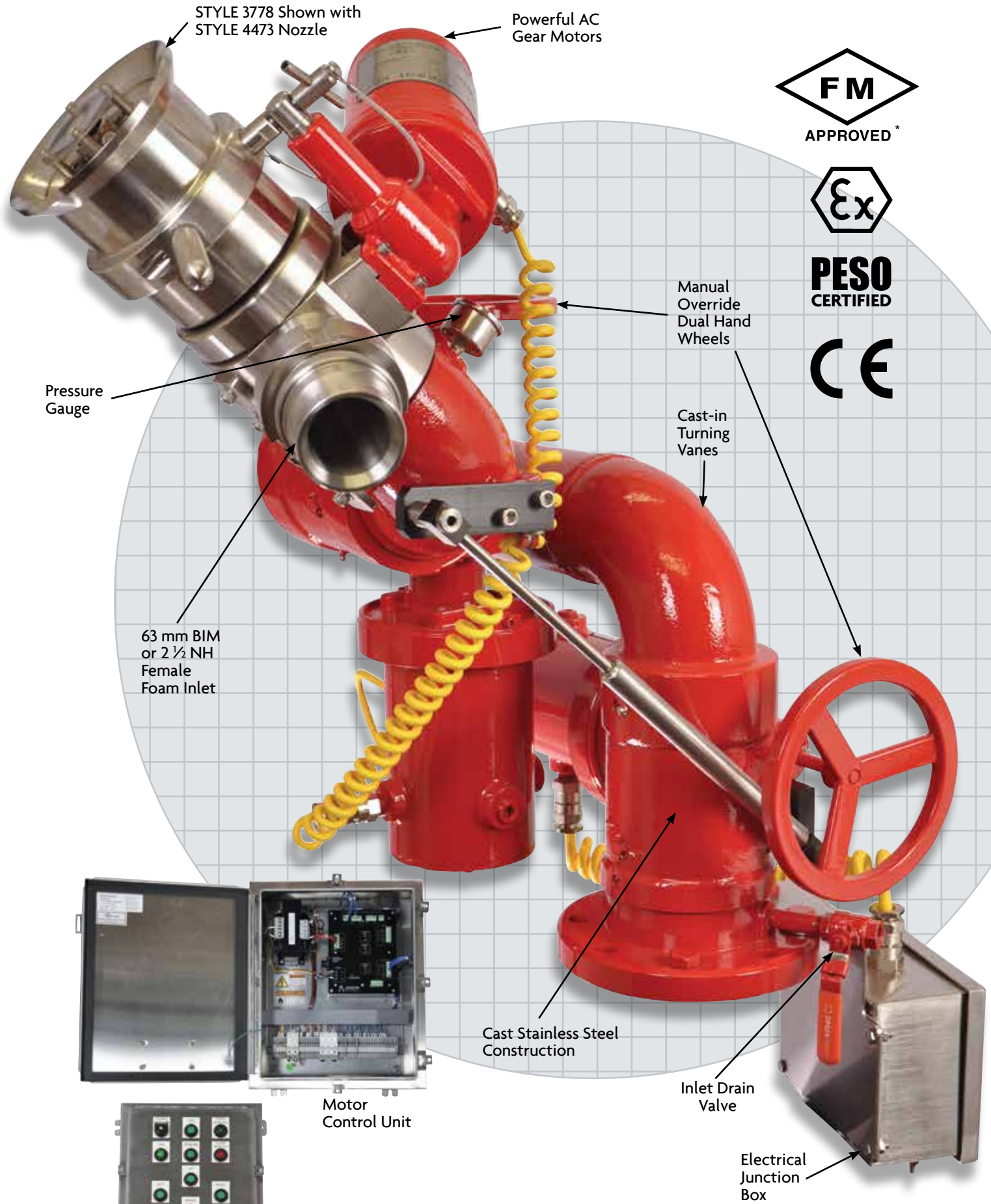
Style 3771 Manual Monitor System

The Conquest SST Stainless Steel, electric and manual, Monitor Systems have been engineered using the highest quality cast stainless steel waterways with flow capabilities up to 7600 lpm (2,000 gpm). When paired with the Style 4473 and 4476 nozzles, effective reach capabilities can be achieved up to 70 meters (229 ft) at 3800 lpm (1000 gpm). The Conquest 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.

- Premium cast stainless steel construction out performs a traditional welded tube design providing superior performance and reach
- Stainless steel material provides maximum corrosion protection extending the life of the product which translates to lower life cycle costs
- Cast-in turning vanes for reduced pressure loss
- Compact size allows the monitor to be positioned in narrow and restrictive spaces
- Lighter weight over traditional welded tube construction
- 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


140° Fog Pattern

Style 4473 Nozzle with 70 Meter (229 Ft) Effective Reach



* FM approved with Chemguard C303 3% AFFF Foam and Style 3031 Akron JRC only

Conquest Monitors

Style	Control	Weight	Height	Width	Outlet	Inlet	Maximum Flow	Maximum Pressure
3778	Electric	79 kg (174 lbs.)**	576 mm (22 11/16")	576 mm (22 11/16")	89 mm (3 1/2") NH	101 mm (4") 150# flange	7600 lpm (2000 gpm)	17 Bar (250 psi)
3771	Manual	61 kg (135 lbs.)**	632 mm (24 7/8")	641 mm (25 3/16")	89 mm (3 1/2") NH	101 mm (4") 150# flange	7600 lpm (2000 gpm)	17 Bar (250 psi)

**Less nozzle

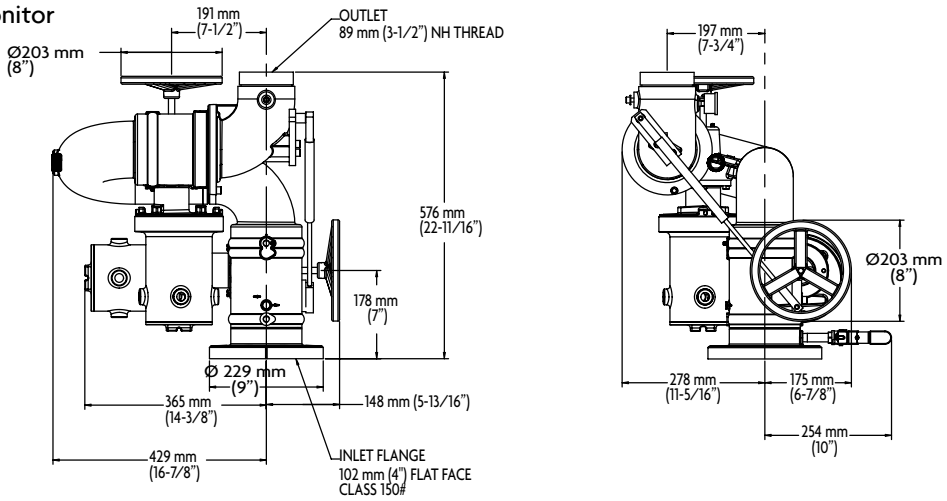
STYLE 3771
Conquest Manual Monitor

Variable Flow Self-Educting Nozzles

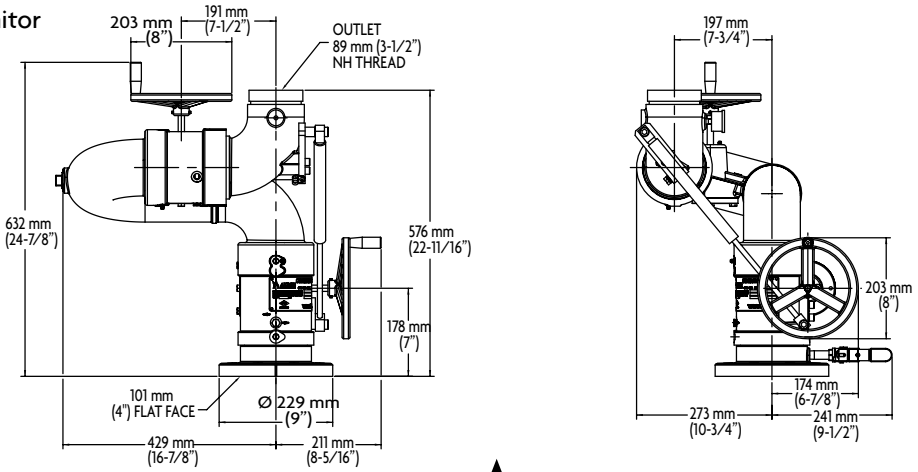
Style	Control	Flow		Inlet	Length	Weight	Maximum Pressure
		GPM	LPM				
4473	Electric	1000 750 500	3800 2800 1900	89 mm (3 1/2") NH	297 mm (11 11/16")	28 kg 62 lbs.)	17 Bar (250 psi)
4476	Manual	1000 750 500	3800 2800 1900	89 mm (3 1/2") NH	297 mm (11 11/16")	17 kg (38 lbs.)	17 Bar (250 psi)

Technical Drawings

Electric Monitor



Manual Monitor



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Conquest SST Remote Controlled Monitor System

Style 3778 Conquest SST Remote Controlled Monitor	
Material	316/316L Cast Stainless Steel construction
Maximum Flow	7600 lpm (2000 gpm) (FM Approved @ 3800 lpm (1000 gpm)
Inlet	101 mm (4") FF 68 kg (150 lb.) flange with drain valve
Outlet	89 mm (3½") NH thread with pressure gauge
Waterway	101 mm (4") diameter internal
Friction Loss	< .7 bar (10 psi) at 3800 lpm (1000 gpm)
Rotation	340° rotation
Elevation	180°, +90° above to -90° 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	576 mm (22 11/16") high, 576 mm (22 11/16") wide
Weight	79 kg (174 lbs.)
Electrical	230 VAC 1 Phase or 230/415 VAC 3 Phase, 50/60 Hz supplied to the Motor Drive Box
Maximum Reaction	7100 N (1596 Lbf) @ 2000 gpm (7600 lpm) 3550 N (798 Lbf) @ 1000 gpm (3800 lpm)
Force Moment (at the Inlet Base)	2883 N-M (2127 Lb-Ft) @ 2000 gpm (7600 lpm) 1441 N-M (1063 Lb-Ft) @ 1000 gpm (3800 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 PESO CE

Style 4473 Electric Non Aspirating, Self Educting, Stainless Steel Nozzle	
Material	316/316L Stainless Steel construction
Max Flow	3800 lpm (1000 gpm)
Flows	1900, 2800 & 3800 lpm (500, 750 & 1000 gpm) Field adjustable without tools
Pattern	Straight stream to 140° wide angle fog
Water Reach	70 m @3800 lpm (230 ft @ 1000 gpm) †
Inlet	89 mm (3½") NH Thread
Foam Induction Rate	Up to 6% at 1900 lpm (500 gpm) and Up to 3% at 2800 & 3800 lpm (750 & 1000 gpm)
Foam Reach	64 m @ 3800 lpm (210 ft @ 1000 gpm) **
Foam Expansion	1:5 – 1:11 (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 motor design
Operating Temperatures	+60°C to -40°C (+140°F to -40°F)
Maximum Operating Pressure	17 Bar (250 psi)
Dimensions	297mm x 474mm x 244mm (11 11/16" L x 18 11/16" W x 9 5/8" H) including motor
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 PESO

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Conquest SST Manual Controlled Monitor System

Style 3771 Conquest SST Manual Controlled Monitor	
Material	316/316L Cast Stainless Steel construction
Maximum Flow	7600 lpm (2000 gpm) (FM Approved @ 3800 lpm (1000 gpm)
Inlet	101 mm (4") FF 68 kg (150 lb.) flange with drain valve
Outlet	89 mm (3½") NH thread with pressure gauge
Waterway	101 mm (4") diameter internal
Friction Loss	< .7 bar (10 psi) at 3800 lpm (1000 gpm)
Rotation	340° rotation
Elevation	180°, +90° above to -90° below horizontal
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	632 mm (24 7/8") high, 641 mm (25 3/16") wide
Weight	61 kg (135 lbs.)
Maximum Reaction	7100 N (1596 Lbf) @ 2000 gpm (7600 lpm) 3550 N (798 Lbf) @ 1000 gpm (3800 lpm)
Force Moment (at the Inlet Base)	2883 N-M (2127 Lb-Ft) @ 2000 gpm (7600 lpm) 1441 N-M (1063 Lb-Ft) @ 1000 gpm (3800 lpm)

Style 4476 Manual Non Aspirating, Self Educting, Stainless Steel Nozzle	
Material	316/316L Stainless Steel construction
Max Flow	3800 lpm (1000 gpm)
Flows	1900, 2800 & 3800 lpm (500, 750 & 1000 gpm) Field adjustable without tools
Pattern	Straight stream to 140° wide angle fog
Water Reach	70 m @3800 lpm (230 ft @ 1000 gpm) †
Inlet	89 mm (3½") NH Thread
Foam Induction Rate	Up to 6% at 1900 lpm (500 gpm) and Up to 3% at 2800 & 3800 lpm (750 & 1000 gpm)
Foam Reach	64 m @ 3800 lpm (210 ft @ 1000 gpm) **
Foam Expansion	1:5 – 1:11 (w/AFFF/AR – AFFF Fire Fighting Foam)
Operating Temperatures	+60°C to -40°C (+140°F to -40°F)
Maximum Operating Pressure	17 Bar (250 psi)
Dimensions	297mm x 361mm x 156mm (11 11/16" L x 14 7/32" W x 6 5/32" H) including motor
Weight	17 kg (38 lbs.)
General System Specifications	
3rd Party Approvals	FM

† Measured at 32° angle in calm winds

* FM approved with Chemguard C303 3% AFFF Foam and Style 3031 Akron JRC only

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

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Style 3031 SST Jet Ratio Controller (JRC)

Designed to feed large volumes of foam from a safe location to a self-educting MasterStream nozzle. The JRC can deliver a 3% foam solution to a 3800 lpm (1000 gpm) nozzle at distances up to 70 m (230 ft) away through 63 mm (2 ½") hose while operating at 7 bar (100 psi) inlet pressure. The Style 3031 JRC is designed for use with the 4473 and 4476 self-educting nozzles.

- Performance Foam Eduction up to 6% at 1900 lpm (500 gpm) and Up to 3% at 1900, 2800 & 3800 lpm (750 & 1000 gpm) [Field adjustable without tools]
- 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

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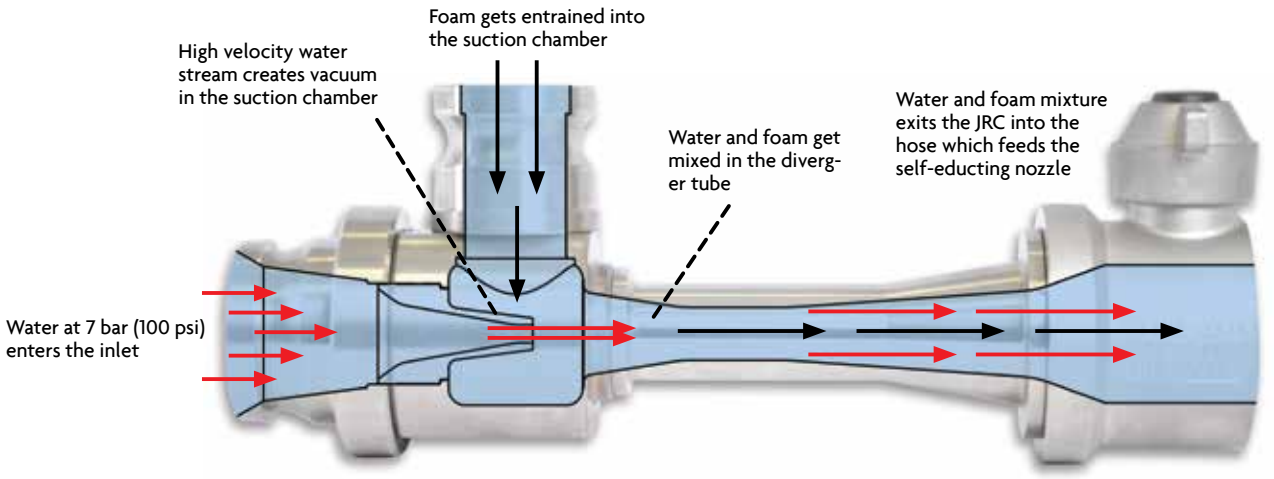
When used with 3778 and 4473

Style 3031 Jet Ratio Controller	
Material	316/316L Stainless Steel construction
Foam Induction Rate	Up to 6% at 1900 lpm (500 gpm) and Up to 3% at 1900, 2800 & 3800 lpm (500, 750 & 1000 gpm) Field adjustable without tools
Flows	Delivery of foam to Self-Educting Nozzle set at 1900, 2800, & 3800 lpm (500, 750 & 1000 gpm) Field adjustable without tools
Inlet	63 mm (2 ½") Male Instantaneous
Outlet	63 mm (2 ½") 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 3778 and 4473



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BP **Exxon Mobil** **NASA**

Chevron **HPCL** **Shell**

Premex® **Vopak**

AKRON BRASS COMPANY

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Akron Brass Company is the leading global manufacturer of high performance products engineered and tested for superior fire suppression and emergency response needs. Akron nearly a century of trusted experience engineering and producing life-safety monitors (water cannons) to provide the finest water flow appliances with the latest technology.

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