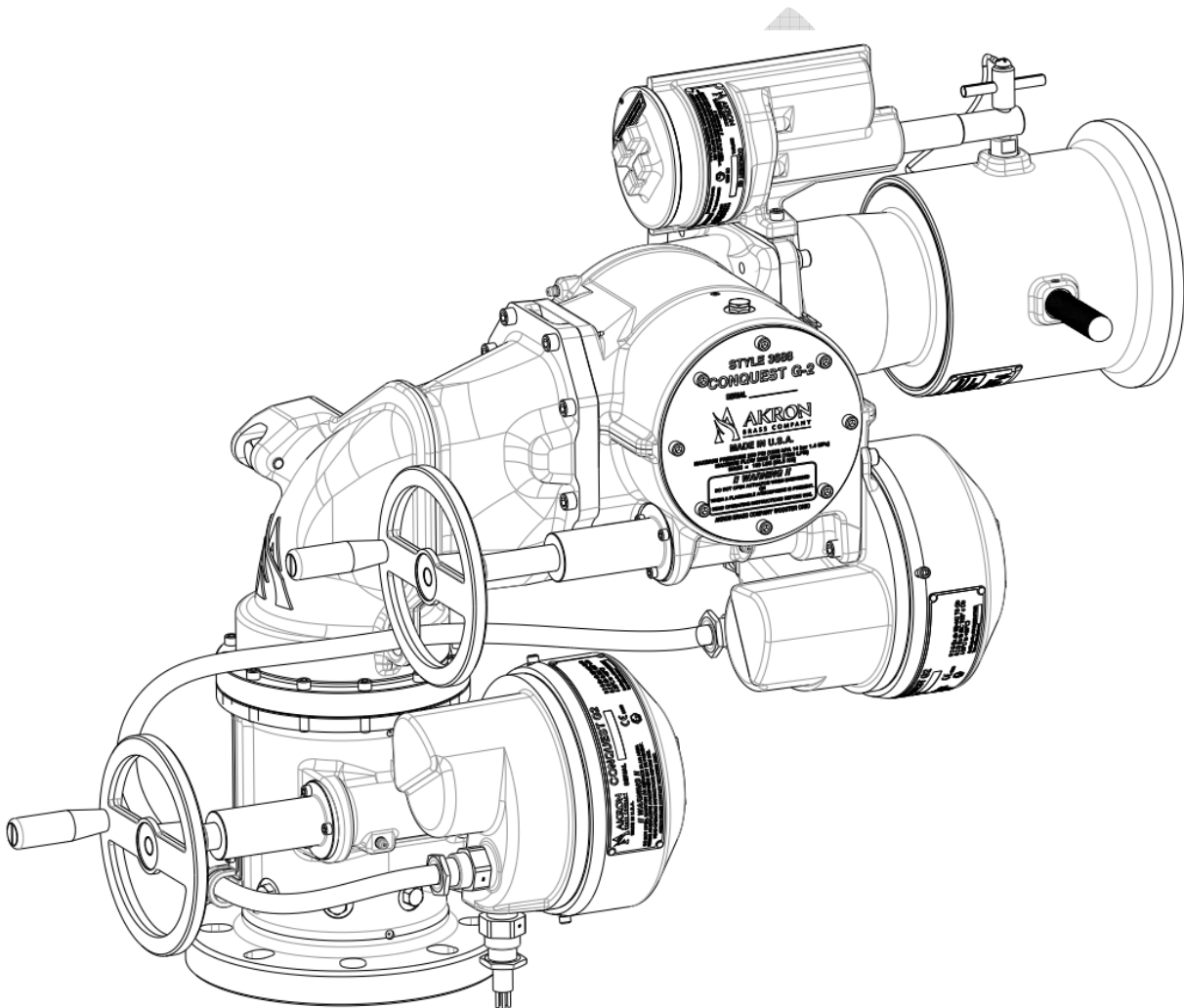




STYLE 3688 Conquest G2™ Industrial Monitor
STYLE 5188 Conquest G2™ Industrial Automatic Baffle Nozzle
STYLE 5189 Conquest G2™ Industrial Fixed Baffle Nozzle
INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

The following is intended to provide the basic instructions for installation, operation, and maintenance. Read and understand these operating instructions before use.



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STYLE 3688 Conquest G2™ Industrial Monitor INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

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Product Warnings



- Indicates a hazardous situation which, if not avoided, WILL result in death or serious injury.
- Indicates a hazardous situation which, if not avoided, COULD result in death or serious injury.
- Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
- Addresses practices not related to personal injury.



- The Conquest G2 system is not to be aimed at or operated in the direction of personnel.



- The Conquest G2 system is not for use on electrical fires.



- Do not stand or place any part of your body in front of the nozzle when operating.



- (Europe only) It is the responsibility of the user to ensure that cable glands and/or conduit fittings are selected and installed to maintain a 360° electrical bond between the cable outer screen and the enclosure to maintain EMC immunity.



- Read and follow the operating instructions before use.



- In consideration of the approvals granted by Intertek, no substitution of components is authorized without their final approval. No changes of any nature shall be made to the product unless notice of proposed change has been given and written authorization is obtained through the Akron Brass Company.



- Substitution of components may impair the operation of equipment and invalidate any approvals noted for the Conquest G2 system.



- To be installed only by those trained and knowledgeable in electrical and mechanical equipment installation.



- To be operated only by those trained and knowledgeable in the intended use of the monitor and all operating controls.



- To be maintained only by those trained and knowledgeable in the maintenance and repair of the monitor and all operating controls.



- Sensors and/or Programmable Logic Controllers, if incorporated in the system, may cause the unit to operate without a voluntary action.



- Charge the unit slowly. Rapid charging may cause a pressure surge that has the potential to cause an injury or damage the monitor.



- Aim the unit in a safe direction before pumping water through it. (i.e. Away from power lines).



- Do not exceed the maximum pressure or flow ratings of the monitor. Exceeding these ratings may lead to an injury or may cause damage to the monitor.



- To avoid fire hazard, use only the fuse type and rating specified in this manual.



- Do not park the monitor while flowing. Pressing the park button causes the nozzle to move automatically and the water stream may cause damage to equipment or injury to personnel.

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- Do not use the electric controls when the override cranks are being used or are in position for use.
- Do not install shutoffs on the outlet of the monitor. Shutoffs increase the potential for pressure surges due to water hammer, which have the potential to cause an injury or damage to the monitor.
- Disconnect power and disable flow before maintenance.
- Keep all personnel out of the Danger Zone, in front of the outlet of the monitor when the water source is attached. Dangerous flow velocities can cause serious injury.
- Before opening the actuator enclosure or performing any service, turn off power at the mains disconnect feeding power to the monitor to eliminate any possibility of shock while servicing in the enclosure.
- Before servicing, make sure power is off and all local lock-out, tag-out procedures are followed.
- For personal protection, the Conquest G2 main voltage supply must be protected by a 3ma Residual Current Device (RCD) – “Europe only”
- Insufficient structural support at the inlet flange can lead to failure, which has potential to cause an injury. Contact Akron Brass Customer Service for assistance.
- Class 1 equipment - This unit must be connected to Earth.
- After removing an actuator cover, apply Parker O-ring lube to the cover seal and the mating surface on the housing to avoid the risk of damage to the seal.
- The monitor contains moving parts. Keep hand, finger and objects away from pinch points.
- The monitor flange is not intended for use as a base stand. The unit may tip if not properly mounted and secured.
- The nozzle is configured for optimum performance. Do not alter in any manner.
- Ensure that the nozzle knurled manual-locking handle is not tightened during electric operation.
- Drain the Conquest monitor after use to prevent freeze damage.
- Although the circuit board includes a water-resistant coating, it is important to keep water out of the actuator enclosure. Prolonged exposure to water will cause damage. When the cover of the actuator enclosure is removed, check that the O-ring in the cover is intact and free of dirt and debris.
- The monitor uses current limiting for both the monitor and nozzle. Use only appropriate Akron Brass Company nozzles.
- Replace the identification tags if they should become worn or damaged.
- The monitor, nozzle, and field adjustable stops are made for optimal performance. Do not alter in any manner.
- The monitor was designed for use with the Akron nozzle. Use of any other nozzle could affect the speed or operation of the unit and should be tested before being put into service.
- During freezing conditions the monitor must be drained to prevent damage.
- The Conquest G2 system is not designed to flow other than water or water/foam solutions. If other agents are to be used, contact Akron Brass.

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STYLE 3688 Conquest G2™ Industrial Monitor INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

NOTICE

NOTICE

- Incorrect wiring between the Motor Control Interface Panel and the Junction Box can cause severe motor damage. Follow the installation instructions and wiring diagrams supplied with the system.
- The rotation and elevation hard stops are designed to provide a physical constraint internal to the monitor to prevent the monitor or nozzle from exceeding the intended envelop. They are not intended to be repeatedly impacted by the monitor. The monitor is supplied with factory soft stops set. The end user can also set soft stops inside of the hard stop operating window. Failure to set soft stops can permanently damage the monitor.

General

This manual describes the Style 3688 Conquest G2 Monitor and 5188/5189 Conquest G2 Nozzle. The Conquest G2 Monitor system is a fixed site, electrically operated, vapor mitigation and firefighting device designed to flow water up to 2000 GPM depending on the nozzle selected at a pressure of up to 200 PSI monitor inlet pressure. Horizontal and vertical movement is accomplished via DC gear motor assemblies controlled by a three-axis motor drive system. Reference the customer order and packing slip to determine equipment supplied.



- Read and follow the operating instructions before use.
- To be installed only by those trained and knowledgeable in electrical and mechanical equipment installation.
- To be operated only by those trained and knowledgeable in the intended use of the monitor and all operating controls.
- To be maintained only by those trained and knowledgeable in the maintenance and repair of the monitor and all operating controls.
- The monitor flange is not intended for use as a base stand. The unit may tip if not properly mounted and secured.

Each section provides detailed information necessary for the installation and operation of the Conquest G2 Monitor. To ensure proper and safe installation, pay special attention to all warnings and important notes that appear in this manual. All installation, operation, and maintenance on the Conquest G2 Monitor must be performed by qualified personnel.

Each Conquest G2 Monitor system is comprised of three (3) main components as indicated below:

- Monitor Assembly (Style 3688)
- Nozzle Assembly (Style 5188 or 5189)
- Monitor Interface Control Panel (MICP)

The model or “style” number for all Conquest G2 systems begins with 3688 and is followed by 4 additional digits. The last 4 digits are used to associate the system with a specific customer order and to distinguish it from all other systems.

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STYLE 3688 Conquest G2™ Industrial Monitor INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

Compliance

European Directives and Standards

The Conquest G2™ Monitor system has been designed to meet, and conforms to, the following European directives and standards:

- Low Voltage Directive (LVD) (73/23/EEC)
- Standard IEC 61010-1:2010 Ed.3+A1 Safety requirements for electrical equipment for measurement, control and laboratory use: Part 1: General Requirements
- Standard IEC 61010-2-020:2016Ed.3 Safety Requirements for Electrical Equipment For Measure, Control, And Laboratory Use - Part 2-020: Particular Requirements For Laboratory Centrifuges
- Electromagnetic Compatibility (EMC)
 - Standard EN 61326 (1998) Electrical Equipment for measurement, control and laboratory use (Class A – Industrial)

IECEx Conformance

The Conquest G2™ Monitor system has been designed to meet, and conforms to, the following IECEx directives and standards.

- IEC 60079-0:2017 Ed.7.0 Explosive Atmospheres Part 0: Equipment General Requirements
 - IEC 60079-1:2014 Ed. 7.0 Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosure “d”
 - IEC 60079-31:2022 Ed.3.0 Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure “t”
- Certificates: Intertek – IECExETL25.0051X for the Conquest G2™ Monitor & IECExETL25.0022 for the Motor Control Unit.

ATEX Conformance

The Conquest G2 Monitor system has been designed to meet, and conforms to, the following ATEX directives and standards.

- EN 60079-0:2018 Explosive Atmospheres Part 0: Equipment General Requirements
- EN 60079-1:2014+A11 Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures “d”
- EN 60079-31:2014 Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure “t”

CSA Conformance

The Conquest G2 Monitor system has been designed to meet, and conforms to, the following CSA directives and standards.

- CSA C22.2 #60079-0:2019 Ed.4 Explosive Atmospheres Part 0: Equipment General Requirements
- CSA C22.2 #60079-1:2016 Ed.3 Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures “d”
- CSA C22.2 #60079-31:2015 Ed.2 Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection By Enclosure “t”

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- CSA C22.2#61010-1-12:2012 Ed.3+U1;U2;A1 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use Part 1: General Requirements
- CSA C22.2#94.1:2024 Ed.3 Enclosures for Electrical Equipment, Non-Environmental Considerations
- CSA C22.2#94.2:2020 Ed.3+U1 Enclosures for Electrical Equipment, Environmental Considerations

UL Conformance

The Conquest G2 Monitor system has been designed to meet, and conforms to, the following UL directives and standards.

- UL 60079-0:2019 Ed.7+R:19Jul2024 Explosive Atmospheres Part 0: Equipment General Requirements
- UL 60079-1:2015 Ed.7+R:22Apr2024 Explosive Atmospheres - Part 1: Equipment Protection by Flameproof Enclosures "d"
- UL 60079-31:2015 Ed.2+R:13Aug2020 Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t"
- UL 61010-1:2012 Ed.3+R:06Jun2023 Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements
- UL 50:2024 Ed.14 Enclosures for Electrical Equipment, Non-Environmental Considerations
- UL 50E:2020 Ed.3+R:30Apr2024 Enclosures for Electrical Equipment, Environmental Considerations

Certificates: Intertek - ITS12ULxxxx for the Conquest Monitor & ITS12ULxxxx for the Motor Control Unit.

IP 66 Conformance

The Conquest G2 Monitor system has been designed to meet, and conforms to, the following IP 66 directives and standards.

- BS EN 60529:1992 +A1,A2 Degrees of protection provided by enclosures (IP Code) (BS EN 60529:1992 with Amendments 1 & 2)

NEMA 4 Conformance

The Conquest G2 Monitor system has been designed to meet, and conforms to, the following NEMA 4 directives and standards.

- UL 50:2015 Ed.13+R:15Oct2020 Enclosures for Electrical Equipment, Non-Environmental Considerations
- UL 50E:2020 Ed.3 Enclosures for Electrical Equipment, Environmental Considerations
- CSA C22.2#94.1:2015 Ed.2+U1 Enclosures for Electrical Equipment, Non-Environmental Considerations
- CSA C22.2#94.2:2020 Ed.3 Enclosures for Electrical Equipment, Environmental Considerations

Zone 1 Tag:



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Zone 2 Tag:



Product Ratings

Electrical Specifications:

MOTOR	24-VOLT SYSTEM (22-28 Volts DC)	
	Maximum Operating Current	Normal Operating Current
Elevation	13.0 Amps	2.0-5.0 Amps
Rotation	13.0 Amps	2.0-5.0 Amps
Pattern	5.0 Amps	1.5 Amps

Electrical Equipment Rating:

Description	Rating
Environment	Indoor or outdoor
Altitude	≤ 5000 m
Temperature	-40 °C ... 60 °C
Relative Humidity	≤ 100 % (at 25 °C, non condensing)
MICP MAINS supply voltage fluctuation	100 V AC ... 240 V AC -15 % ... +10 %
OVERVOLTAGE CATEGORY	II (≤ 5000 m)
POLLUTION DEGREE	2

Mechanical Specifications:

Parameter	US Measure	Metric Measure
Maximum Flow Rate	2000 GPM	7600 LPM
Maximum Pressure	200 PSI	14 Bar
Rated Pressure	100 PSI	7 Bar
Monitor Weight	195 Lbs	88.5 kg
Nozzle Weight	50 Lbs	22.7 kg
Monitor/Nozzle System Weight	245 Lbs	111.2 kg
Temperature	-40°F to +140°F	-40°C to +60°C

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Maximum Reaction Force

1500 Lbs

6670 N



- Do not exceed the maximum pressure or flow ratings of the monitor. Exceeding these ratings may lead to an injury or may cause damage to the monitor.

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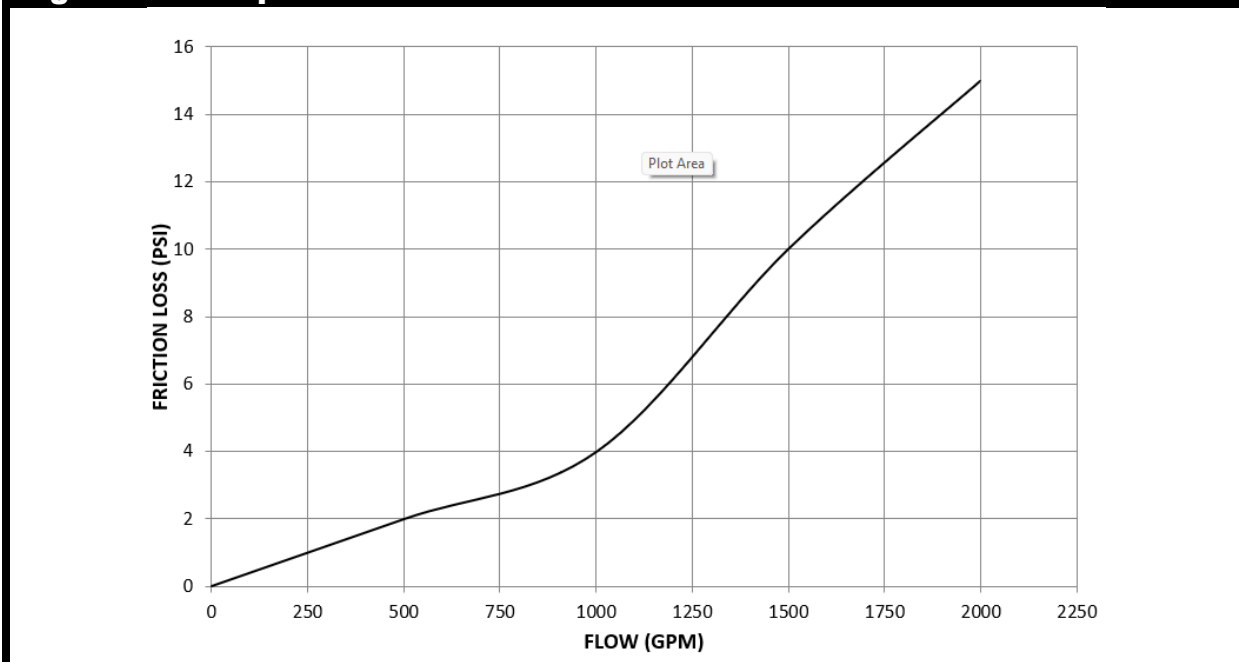


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Monitor Flow Specifications:

There are hydraulic losses as water flows through a piping and water apparatus which is referred to as friction loss. The friction loss through the Conquest G2 is recorded in Figure 1.

Figure 1 – Conquest G2 Friction Loss



Nozzle Flow Specifications:

FM Certified Style 5188 Constant Pressure Nozzle:

Nozzle Inlet Pressure (PSI)	Flow Range	Flow Range (lpm)
100	500 – 2000 GPM	1890 – 7570

FM Certified Style 5188 Constant Pressure Nozzle:

Nozzle Inlet Pressure (PSI)	Flow Settings GPM (lpm)				
100	1200 (4540)	1250 (4730)	1500 (5670)	1750 (6620)	2000 (7570)

There are other flow settings available that do not carry the FM certification.

Tools Required

- Utility Knife
- Medium Phillips screw driver
- Small Phillips screw driver
- Electrician's pliers (multipurpose, stripping and crimping)
- Medium flat screwdriver
- Small flat screwdriver
- ½ inch hex head wrench
- Multimeter

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Installation



- The monitor assembly is heavy equipment. Only properly trained personnel should lift and secure the monitor assembly onto the support structure. Suitable lifting equipment must be used to avoid equipment damage or personal injury.



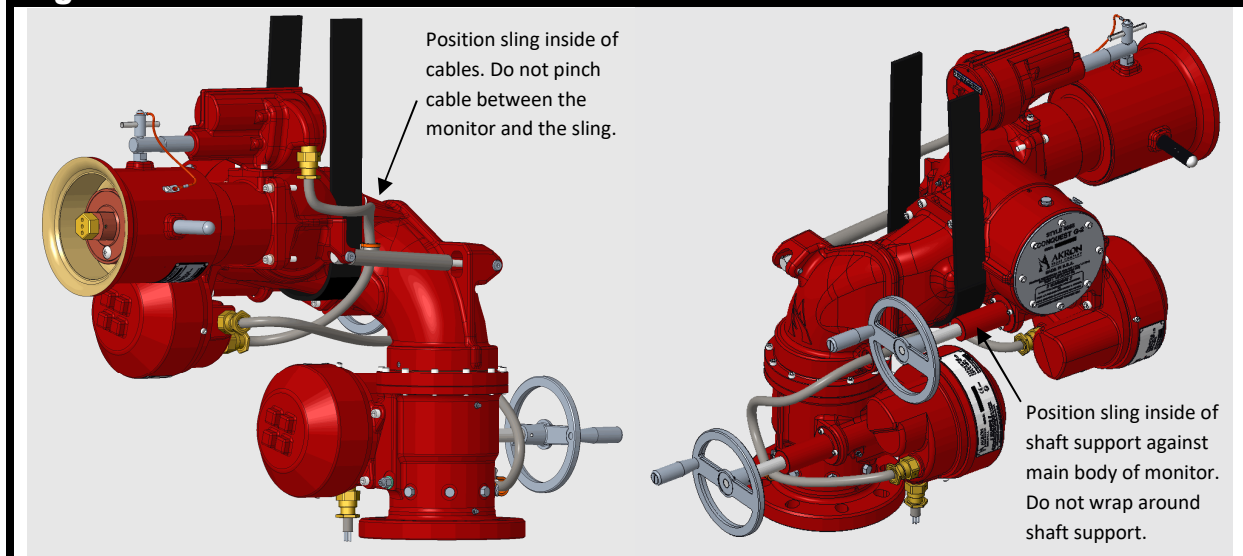
- When lifting the monitor, ensure the sling is secure before lifting the equipment. Make sure that the sling is not pinching cables or components not intended to support the monitor weight.



- The monitor flange is not intended for use as a base stand. The unit may tip if not properly mounted and secured.

When using a sling to lift the monitor, care should be taken so that the monitor is secure. The sling should be attached as shown in Figure 2. Make sure not to damage cables or other mechanical components not intended to support the weight of the monitor.

Figure 2



The cable gland protruding from the bottom of the rotation actuator will serve as the cable entry point for the electrical service to the monitor. The location for the cable gland is specified in Figure 2.



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Make sure that the mounting location provides clearance for the monitor and nozzle assembly as shown in Figure 3. The rotation hand wheel points backward from the center position of the nozzle outlet. This indicates the center of the rotational sweep envelop. Figure 4 shows the sweep of the rotation and elevation.

Figure 3

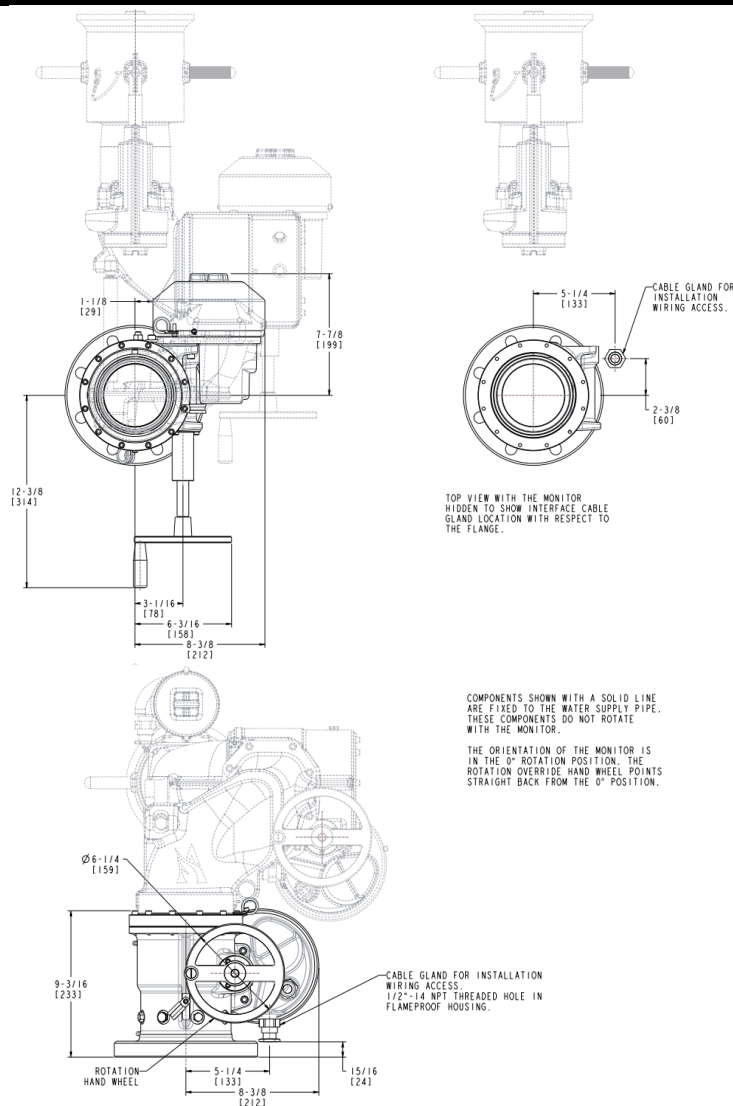
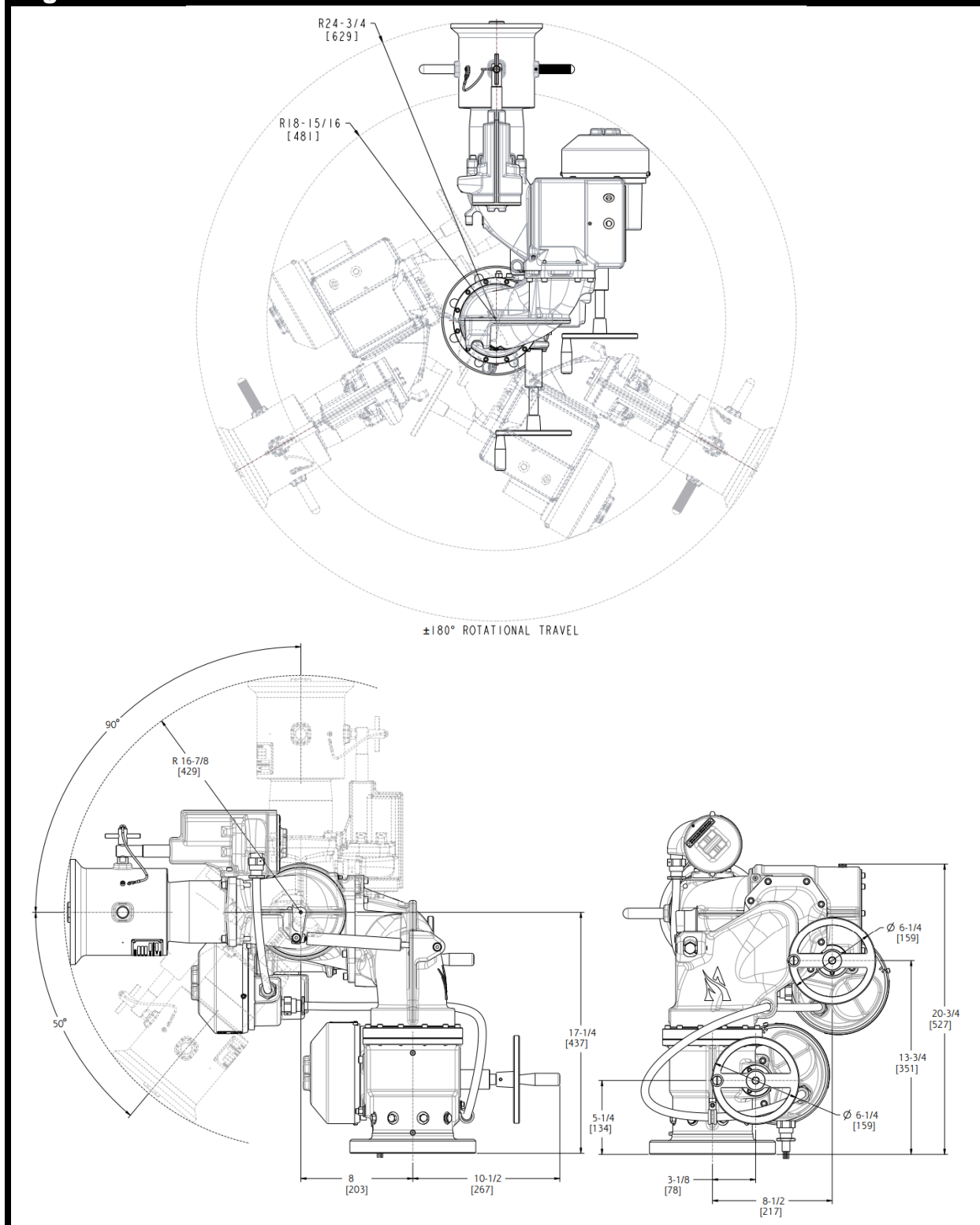


Figure 4



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Mechanical Monitor Attachment

The monitor is to be mounted on a waterway which can withstand the pressure applied to the monitor as well as the reaction force and resulting bending moment of the nozzle (1500 lbs (6670N) at 200 PSI and 2000 GPM). The nozzle is 1.44 ft (.44 m) from the base of the monitor. The maximum bending moment of the monitor and nozzle system is $1.44 \text{ ft} \times 1500 \text{ lbs} = 2156 \text{ lb-ft}$ (2923 Nm).

A typical installation flowing 2000 GPM at 100 PSI monitor inlet pressure will have a reaction force of 1000 lbs. The bending moment at the flange is $1.44 \text{ ft} (17.25 \text{ in}) \times 1000 \text{ lbs} = 1440 \text{ ft-lbs}$ (1950 Nm).



- Insufficient structural support at the inlet flange can lead to failure, which has potential to cause an injury.

Installation

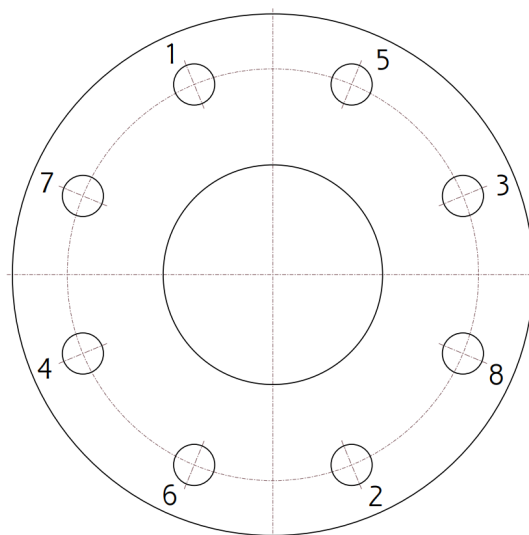
When positioning the monitor into place, ensure that the alignment of the monitor base is in the correct position for access to the left/right hand wheel. Align the center of travel with the target for monitor protection. The rotation override hand wheel faces the back of the monitor as a reference for the center of rotation travel. Consider the operating envelope available for the monitor and the required envelope for the application. (Figures 2 and 3).

Attach the monitor to a water supply pipe that has a 4" 150 lb. class ANSI or DIN 100 PN16 flange using eight (8) 5/8-11 UNC grade 5 carbon steel or stainless-steel bolts, 2-1/2 inches long, with nuts. Seal the flange joint with gasket conforming to ASME 16.21.

Bolt Tightening Procedure

Start the tightening procedure by lubricating the nuts and bolts. Hand tighten the nuts until they are snug against the flange.

Figure 5



The final torque of the bolts should be 85-90 ft-lbs. Following the correct sequential order, tighten the bolts to 30% of the final torque. Repeat the tightening sequence to 60% of the final torque. Repeat a third time to 100% of the final torque. Finally, repeat the sequence at the final torque.

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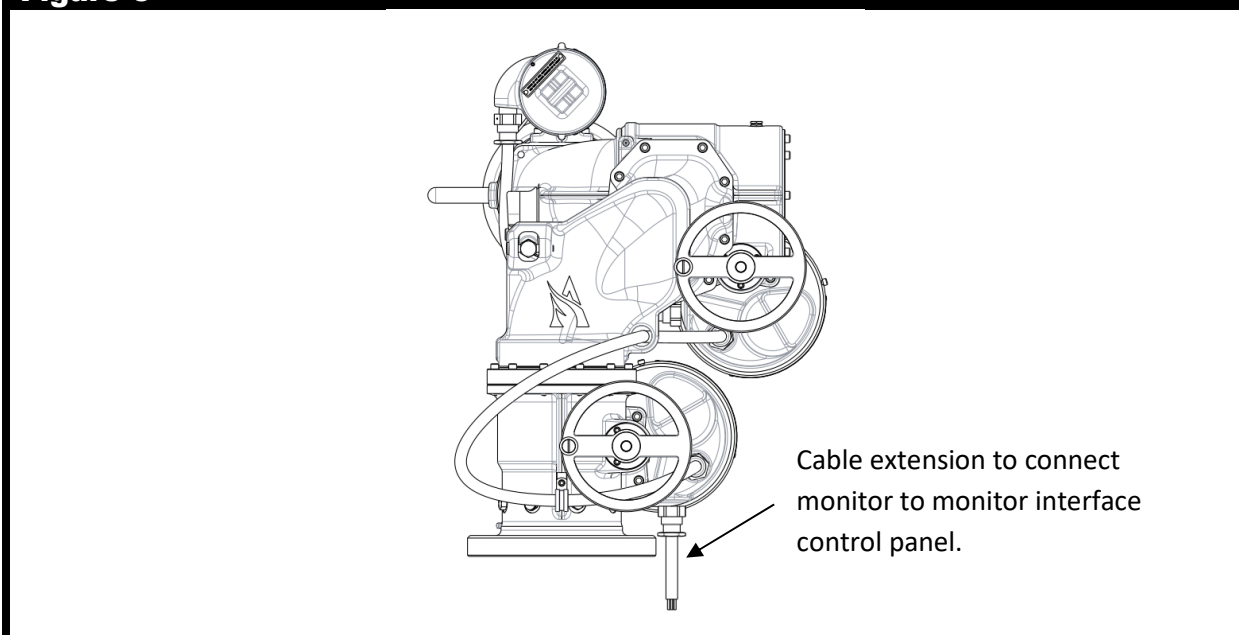
NOTICE

- Not recommended to mount onto a raised face flange. This may cause damage to the monitor's flange when tightening bolts.

Electrical Connection Procedure

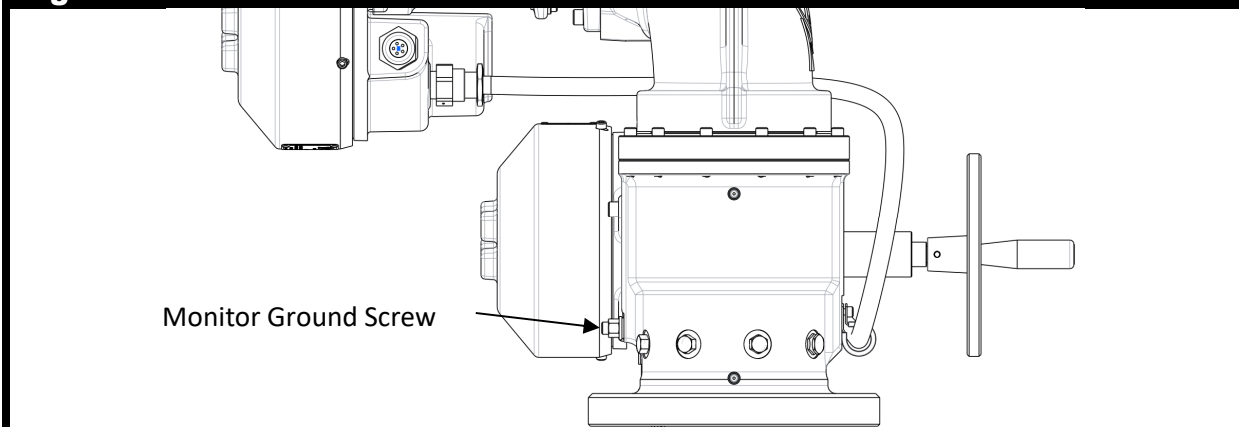
The cable extending out of the rotation actuator is used to connect the monitor to the Monitor Interface Control Panel (MICP). Reference the MICP manual for wire connections.

Figure 6



The cable is installed to the monitor at Akron Brass. The cable is a Trex-Onics® DeviceNet™ Flex-Net Cable, 18/1PR+ 15/1PR, 300V, 0.475" cord diameter, type PLTC, FT4 Flame Rating. The default cable length is 50 feet.

Figure 7



The monitor ground screw should be connected to a suitable ground connection at the customer's installation

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Operation of the Monitor System

Monitor and Nozzle Operation

A typical switch/pushbutton operator panel, PLC/DCS hardwired digital I/O, or wireless control is required to operate the Conquest G2 monitor. Typical controls included in an operator panel or wireless controller are as follows:

- Joystick or pushbuttons for rotation (cw – ccw) control and elevation (up – down) control
- Stream – Fog pattern pushbuttons
- Water ON – OFF pushbuttons (if applicable)
- Foam ON – OFF pushbuttons (if applicable)

To move the monitor Up, Down, Left, or Right:

1. Push the joystick to the desired direction for movement. The monitor will move with the same orientation as the joystick.
2. To stop the movement, release the joystick.

If individual pushbuttons are used to control the monitor movement, push the desired button up, down, left, or right to move the monitor in the desired direction. Release the button when the desired position is reached.

To move the nozzle pattern to stream or fog:

1. Push the Fog button to widen the water stream to a fog pattern.
2. Push the Stream button to narrow the stream to a straight stream.
3. To stop the pattern adjustment, release the button.

To open the water valve: (If supplied)

1. Press the Water Valve Open button to turn the water on.
2. Press the Water Valve Close button to turn the water off.

To open the foam valve: (If supplied)

1. Press the Foam Valve Open button to turn the foam on.
2. Press the Foam Valve Close button to turn the foam off.

Operator panels and wireless controllers are typically powered from the inbuilt 24VDC power supply in the motor control unit.

When a higher degree of monitor control or automation is required. 4-20ma position feedback signals are also available for connection back to the customer's control system to prove monitor position.

Another available option is the use of an Ethernet network operating a Modbus TCP/IP communications protocol. This network connection can be used to operate the monitor or to simply extract diagnostic data. The Ethernet connection can be CAT6 copper, multimode or single mode fiber optic cable. Network topology can be a ring or star.

For more control details, see MICP manual or contact an Akron Brass representative.

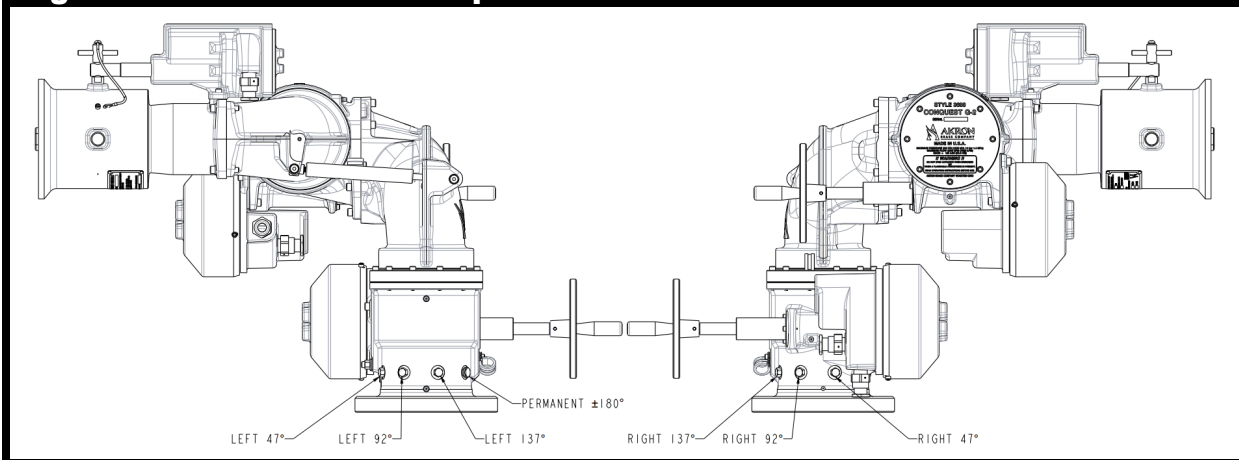
Rotational Stops

The Conquest G2 monitor is supplied with adjustable physical hard stops on the rotation axis at intervals of $\pm 47^\circ$, $\pm 92^\circ$, $\pm 137^\circ$. A permanent physical hard stop is installed at $\pm 182^\circ$ (See Figure 8). The motor driver is equipped with absolute position feedback which can be programmed to electronically stop ("soft stop") the monitor from impacting the hard stop. These soft stops can be programmed by the user. They can be set at any location within the window of operation.

NOTICE

- The rotation and elevation hard stops are designed to provide a physical constraint internal to the monitor to prevent the monitor or nozzle from exceeding the intended envelop. They are not intended to be repeatedly impacted by the monitor. The monitor is supplied with factory soft stops set. The end user can also set soft stops inside of the hard stop operating window. Failure to set soft stops can permanently damage the monitor.

Figure 8 – Rotation Hard Stop Locations



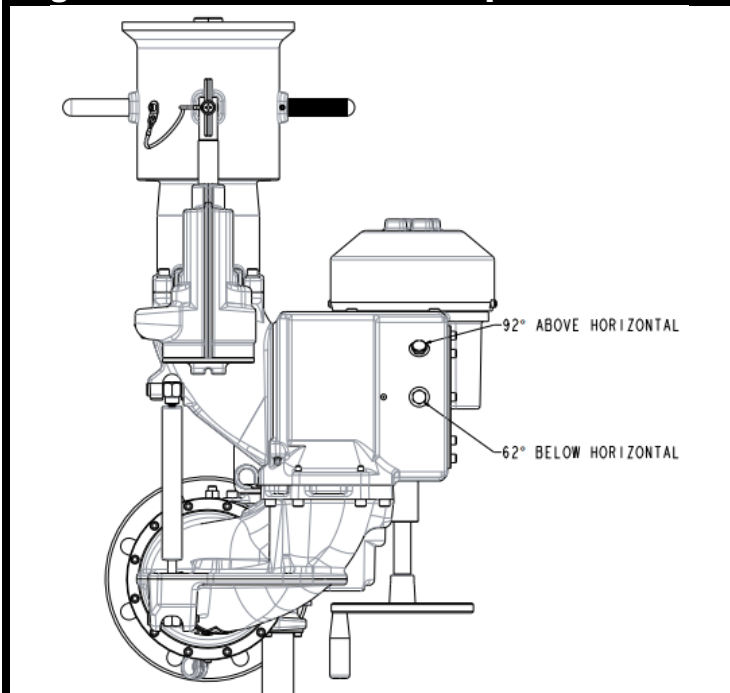
Elevation Stops

The Conquest G2 monitor is supplied with permanent physical hard stops on the elevation axis at 62° below horizontal and 92° above horizontal. The motor driver is equipped with absolute position feedback which can be programmed to electronically stop ("soft stop") the monitor from impacting the hard stop. These soft stops can be programmed by the user. They can be set at any location within the window of operation.

NOTICE

- The rotation and elevation hard stops are designed to provide a physical constraint internal to the monitor to prevent the monitor or nozzle from exceeding the intended envelop. They are not intended to be repeatedly impacted by the monitor. The monitor is supplied with factory soft stops set. The end user can also set soft stops inside of the hard stop operating window. Failure to set soft stops can permanently damage the monitor.

Figure 9 – Elevation Hard Stop Locations



Nozzle Installation

The nozzle is assembled to the monitor using 4 socket head cap screws. An o-ring seals the connection between the monitor and the nozzle. It is best to position the monitor outlet elbow in the vertical position so that the weight of the nozzle is supported by the monitor while the bolts are tightened. A ¼" allen key wrench is used to tighten the socket bolts.

Maintenance Instructions

The Conquest G2 monitor is designed to operate with minimal maintenance.



- **WARNING** To be maintained only by those trained and knowledgeable in the maintenance and repair of the monitor and all operating controls.
- Periodically clean grit and dirt from around moving parts and cable connections.
- Operate all functions of the monitor through its full travel at least once per month.
- Replace the identification tag if it should become worn or damaged.
- After use, flush the nozzle with clean water to clean grit and dirt from around exterior moving parts. Doing so will allow the nozzle to operate as designed.
- If any of the following situations are encountered, the monitor should be taken out of service, repaired, and tested prior to placing it back in service.
 - Operating above maximum rated pressure or flow
 - Not draining and allowing water to freeze inside.
 - Prolonged exposures to temperatures above 140°F, or below -40°F.
 - Other misuses that may be unique to your specific environment.

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- Inability to move the monitor with the override crank.
- Excessive wear.
- Poor discharge performance.
- Water leaks.

Actuators: Rotational and Linear Flameproof “d” Enclosure

The actuator contains electrical equipment that needs to be isolated from a potentially explosive atmosphere. The actuator enclosure is designed and certified to provide the protection needed to prevent a flame inside the enclosure to reach the outside of the enclosure to ignite the atmosphere. The design features must be maintained for the enclosure to provide the intended protection required in an explosive atmosphere. If the thread or output shaft from the enclosure is damaged, it must be replaced. Those features are not intended to be repaired. Failure to replace will eliminate the hazardous location protection.



- After removing an actuator cover, apply Parker O-ring lube to the cover seal and the mating surface on the housing to avoid the risk of damage to the seal.

If any of the following are damaged, they must be replaced immediately. Repair of following features is not intended.

- Cable gland or male thread
- Cable gland female entry thread in the enclosure
- Threaded flame path on the housing or the cap
- Rotating or linear shaft should not have scoring or scratches
- Housing shaft journal in the shaft flame path

Figure 10 – Rotation Actuator Enclosure Flame Path

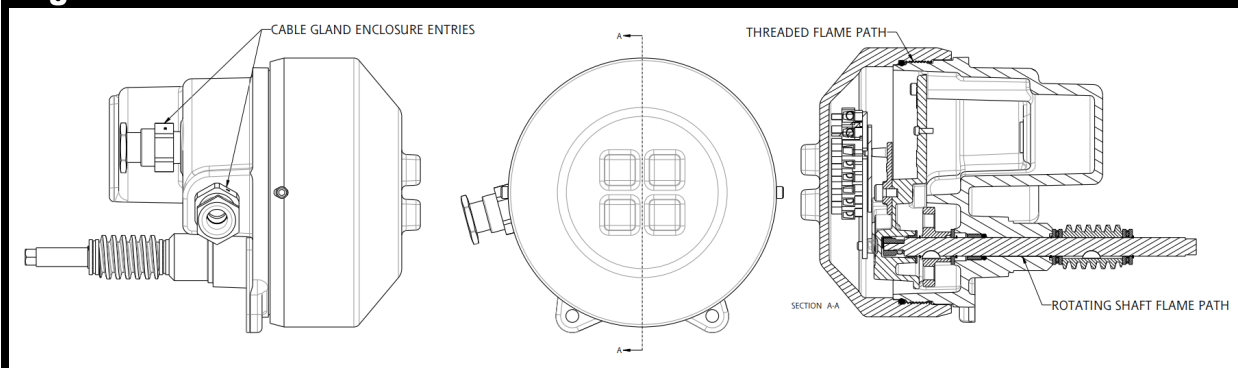
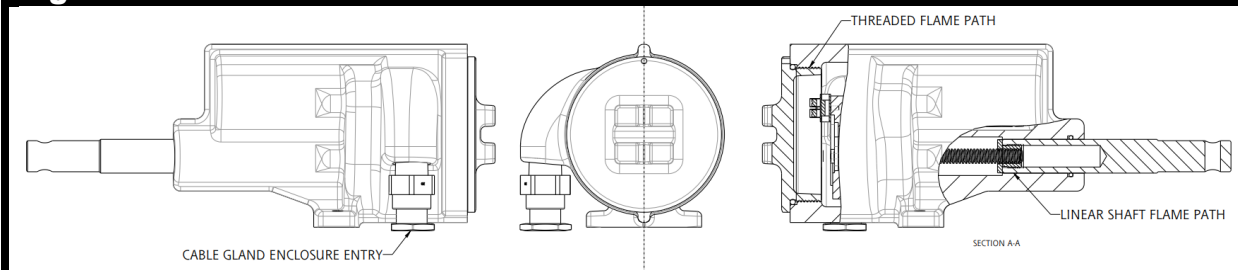


Figure 11 – Nozzle Pattern Linear Actuator Enclosure Flame Path



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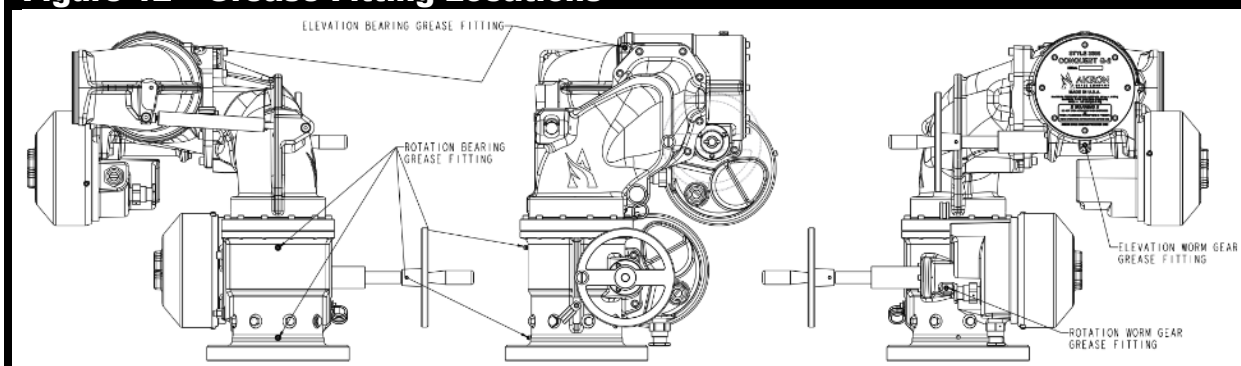
STYLE 3688 Conquest G2™ Industrial Monitor INSTALLATION, OPERATING, AND MAINTENANCE INSTRUCTIONS

Lubrication

The monitor is actuated using an electric motor that drives a series of spur gears and a worm gear. Spur gears combine rolling and sliding which run optimally with a lubricant. A worm gear relies heavily on sliding which is more critical to have proper lubricant. Additionally, the rotation and elevation waterway components slide against each other as they rotate. By lubricating the rotation and elevation joints, the load on the gearing and motor is reduced. Wear on the gears is minimized and current required for the motors is reduced.

Either once per year or after 15 hours of use, whichever happens first, lubricate the worm gear grease fittings and rotation fittings with Mobilith SHC 460 or equivalent grease. Inject the equivalent of 5 pumps from a manual grease gun. Use the manual override handwheel to cycle through the motion of the actuator. Repeat a second time. If the monitor is used in a continuous oscillating application, it is important to routinely grease the monitor.

Figure 12 – Grease Fitting Locations



Warranty Statement

For warranty information see:

www.akronbrass.com/customer-support-warranty/

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