Hydraulic Water Cannon RM65-H

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1. Water Cannon - Warning - Hazard to Health

Care needs to be taken operating a water cannon. Water from a cannon is capable of inflicting serious injury to a person in the path of the jet.

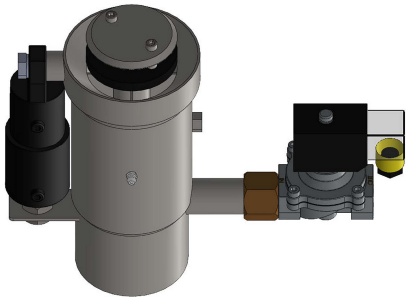
Primary injuries would be those from the direct hit to the body by the impact of the jet. These would include bruising of internal organs and damage to the eyes.

Secondary injuries can occur as a result of the acceleration of the body in collision with hard surfaces. These injuries would be largely skeletal, such as broken bone. Other injuries could be caused by debris, accelerated by the force of the water jet striking the person.

The following should be considered as a minimum level of care required when operating a water cannon:

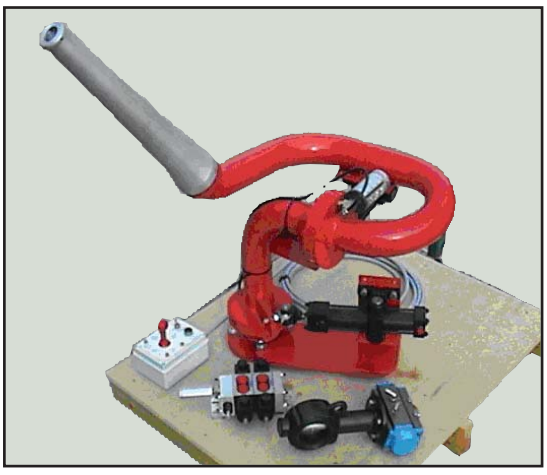
- Know the direction that the cannon is aiming at. Aim the cannon in a safe direction before turning the water on.
- Keep all personal out of the front of the cannon. Dangerous flow velocities can cause serious injury for quite a distance in front of the cannon.
- The cannon contain moving parts. Keep hands, fingers, and objects away from pinch points when working close to the cannon.
- Do not attempt to modify the equipment in any way. Modifications of the equipment may result in damage and/or malfunction of the equipment which could cause injury to the operator or other. Also, the manufacturer’s warranty will be void.
- Follow all the maintenance procedures in the documentation. Failure to do so, can result in damage and/or malfunction of the equipment which could cause injury to the operator or other.

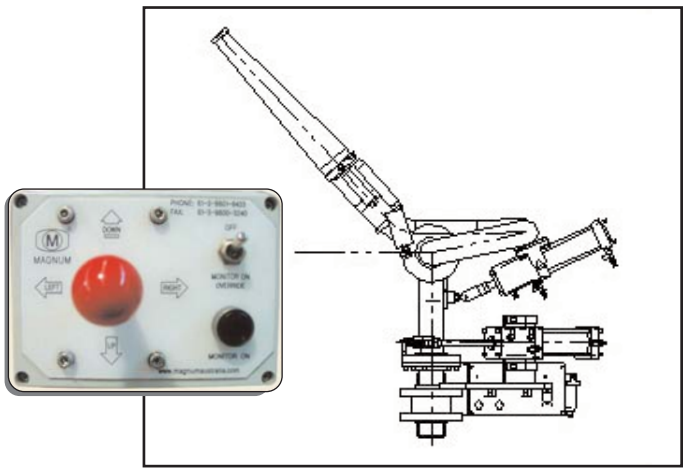
2. RM65-H Brochure

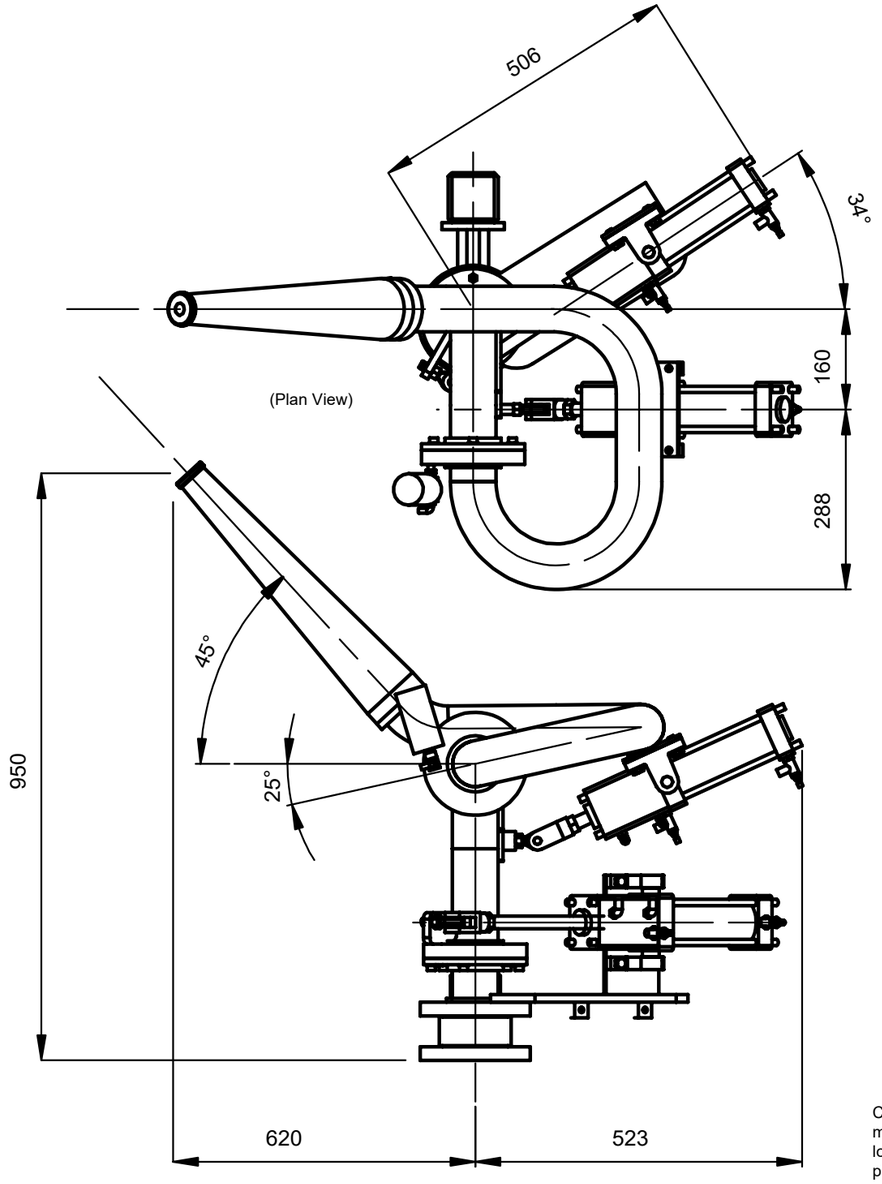


- Hydraulic cylinders control Left / Right Slew action
- Automatic grease lubrication optional
- 90° slew (maximum)
- 70° elevation (as standard), 45° above horizontal, and 25° below horizontal)
- Electric 8-way Joystick controller supplied
- Hydraulic manifold fitted with pressure relief valve and flow control valve
- Unit pre-set to correct settings and tested prior to final packaging and dispatch
- 12V or 24V solenoid valves optional
- Mounting flange with fasteners included
- Actuated air valve included to control on/off with electric solenoid wired
- Optional hydraulic on/off available
- Optional remote foam/fog nozzle available
- Optional radio frequency (R.F.) wireless control available
- 65mm (2 1/2") ANSI 150lb flanged inlet connection
- Director nozzle supplied as standard; 28mm (1 1/8") orifice and 60m water throw at 7 bar

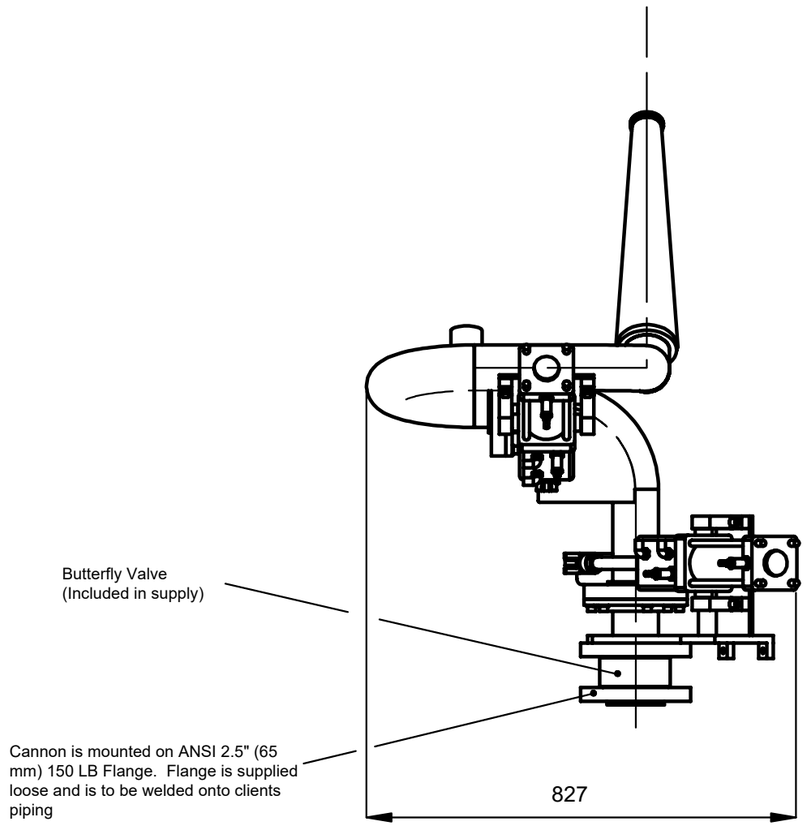
Optional Radio Frequency Control (RF)







NOTES!
1 Slew angle up to 90°
2 Elevation angle 45° above the horizontal 25° below the horizontal



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:			TOLERANCES ACCORDING TO ISO 2768	DO NOT SCALE DRAWING / DEBURR AND BREAK SHARP EDGES
	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		1/12/2020	
CHECKED				
APPROVED				
MATERIAL: N/A				
THICKNESS: N/A				

MAGNUM AUSTRALIA
35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180
PHONE 98018433

TITLE: WATER CANNON RM65-H ANGLES

DWG NO. RM65-H

A3

SCALE: N/A

SHEET 1 OF 1

3. Outline Drawing of Cannon & Exploded View / Spare Parts

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:	TOLERANCERS UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°	DO NOT SCALE DRAWING DEBURR AND BREAK SHARP EDGES

	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED				
APPROVED				

MAGNUM AUSTRALIA
35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180
PHONE 98018433

TITLE:
WATER CANNON RM65-H

MATERIAL: N/A

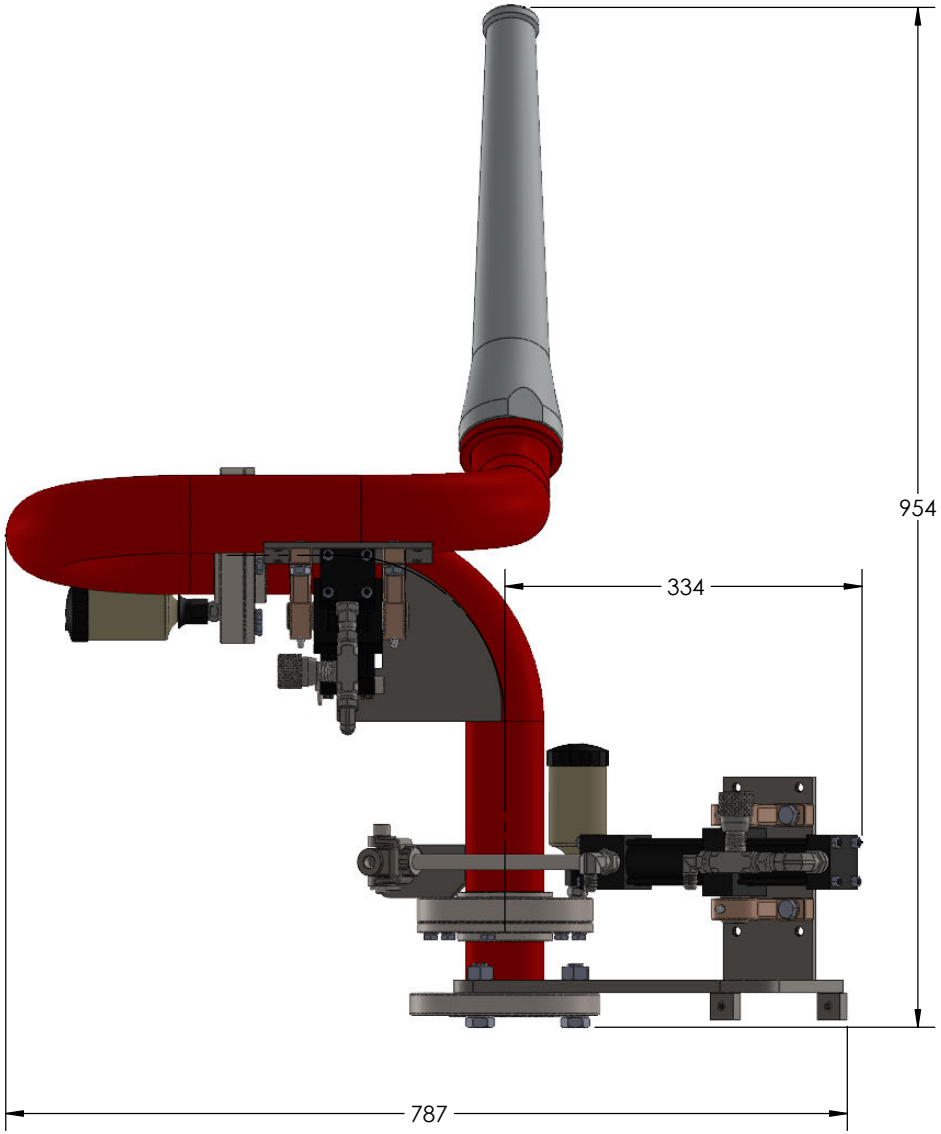
DWG NO. RM65-H

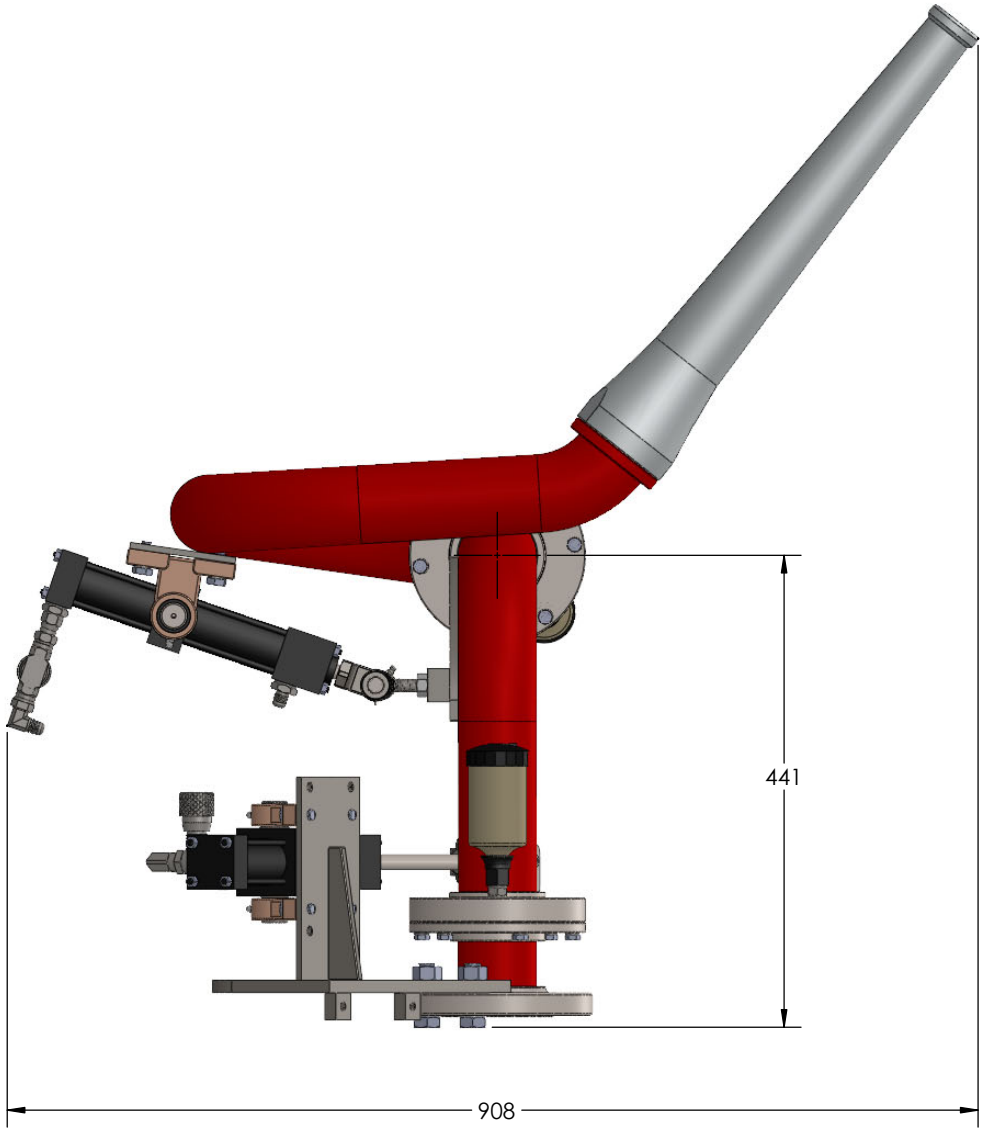
A3

THICKNESS: N/A

SCALE: 1:4

SHEET 1 OF 8



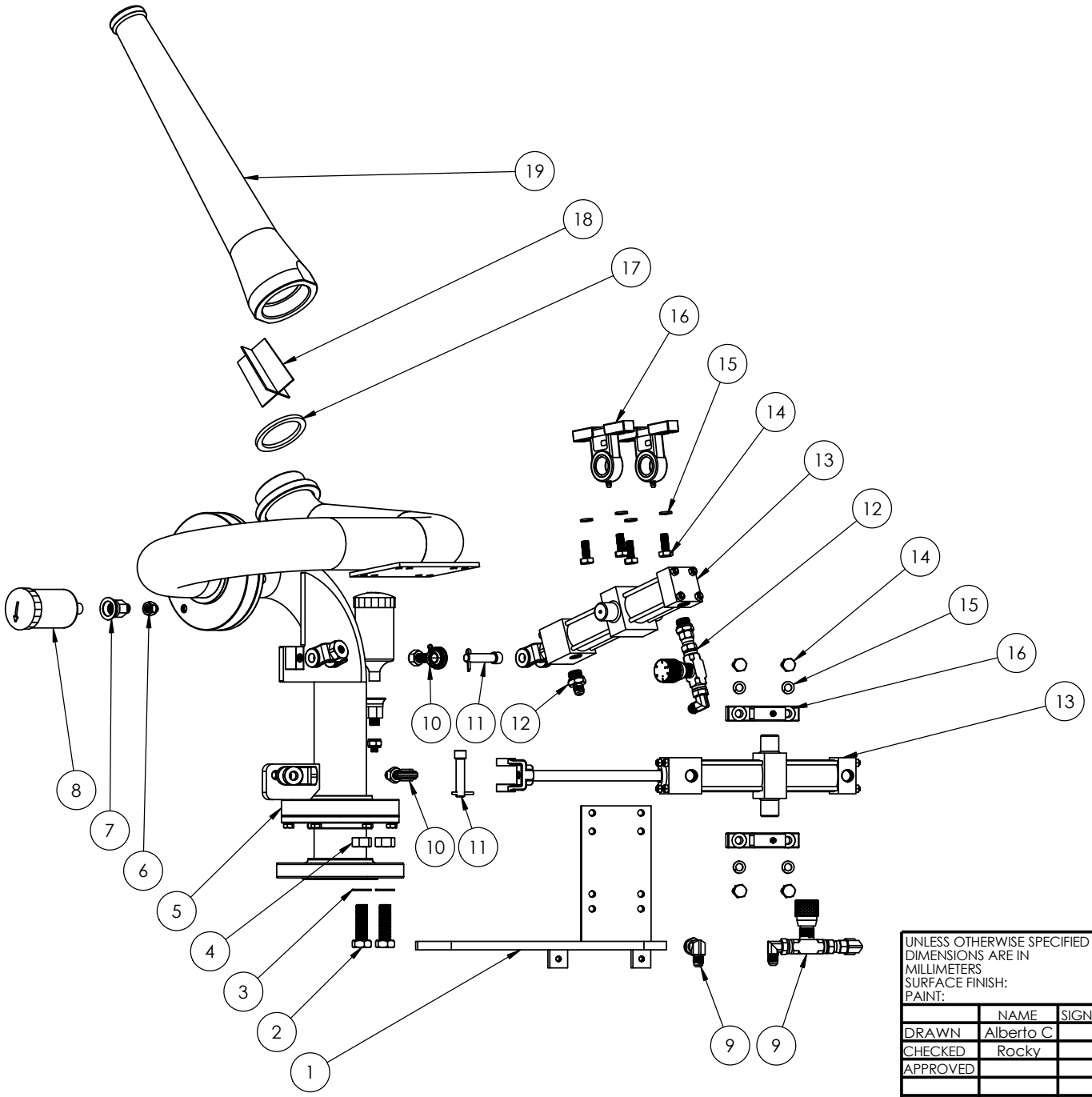


UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:	TOLERANCERS UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES
			MAGNUM AUSTRALIA 35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180 PHONE 98018433	

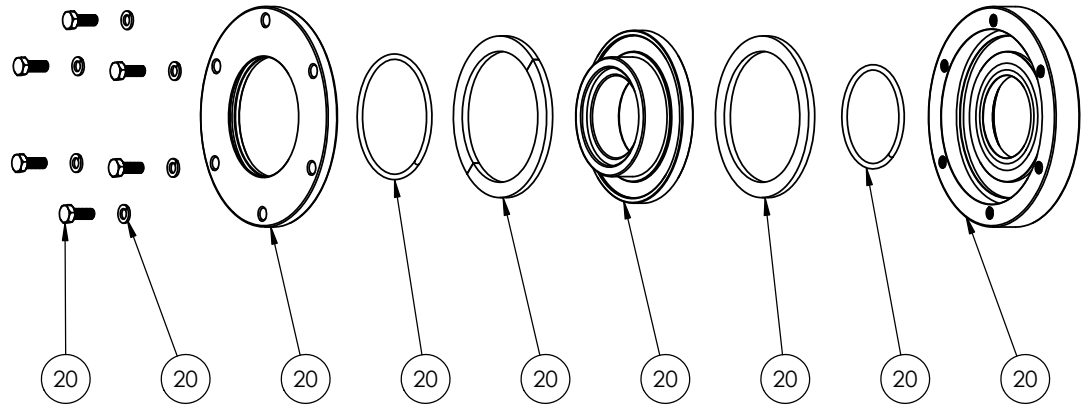
	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED				
APPROVED				

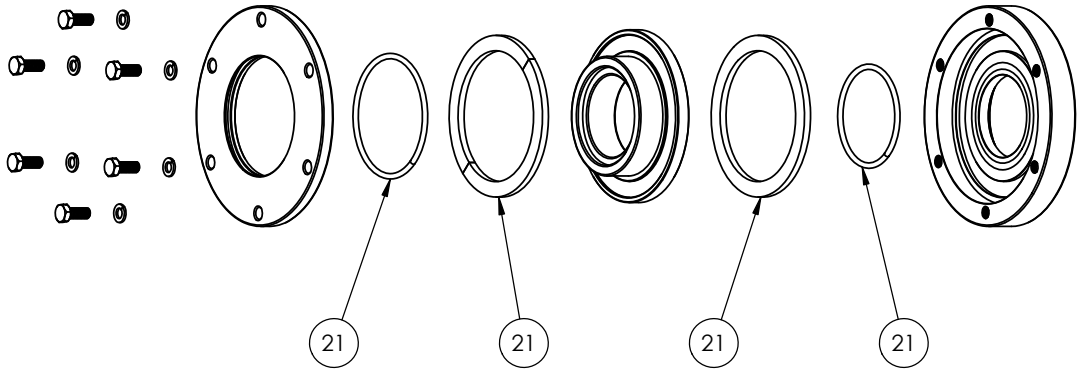
TITLE:
WATER CANNON RM65-H

MATERIAL: N/A	DWG NO. RM65-H	A3
THICKNESS: N/A	SCALE: 1:5	SHEET 2 OF 8



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:	TOLERANCERS UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES
			MAGNUM AUSTRALIA 35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180 PHONE 98018433	
	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED	Rocky		01/12/2020	
APPROVED				
			TITLE: WATER CANNON RM65-H	
			MATERIAL: N/A	DWG NO. RM65-H A3
			THICKNESS: N/A	SCALE: 1:6 SHEET 3 OF 8





UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:	TOLERANCERS UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES
			MAGNUM AUSTRALIA 35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180 PHONE 98018433	

	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED	Rocky		01/12/2020	
APPROVED				

TITLE: COMPLETE BEARING AND RECONDICTIONING KIT FOR RM65-H

MATERIAL: N/A

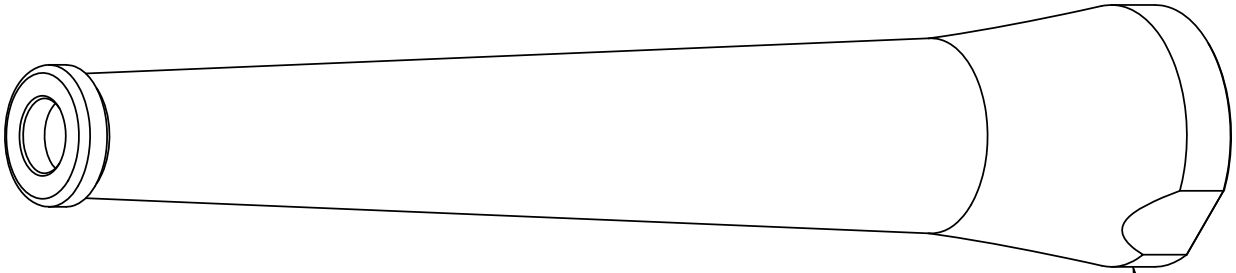
DWG NO. BM0805

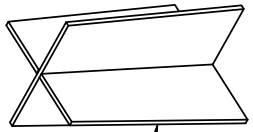
A3

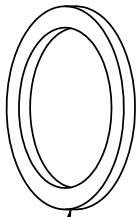
THICKNESS: N/A

SCALE: 1:4

SHEET 4 OF 8







UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:			TOLERANCERS UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°	DO NOT SCALE DRAWING / DEBURR AND BREAK SHARP EDGES
	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED	Rocky		01/12/2020	
APPROVED				
			MATERIAL: N/A	
			THICKNESS: N/A	

MAGNUM AUSTRALIA
35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180
PHONE 98018433

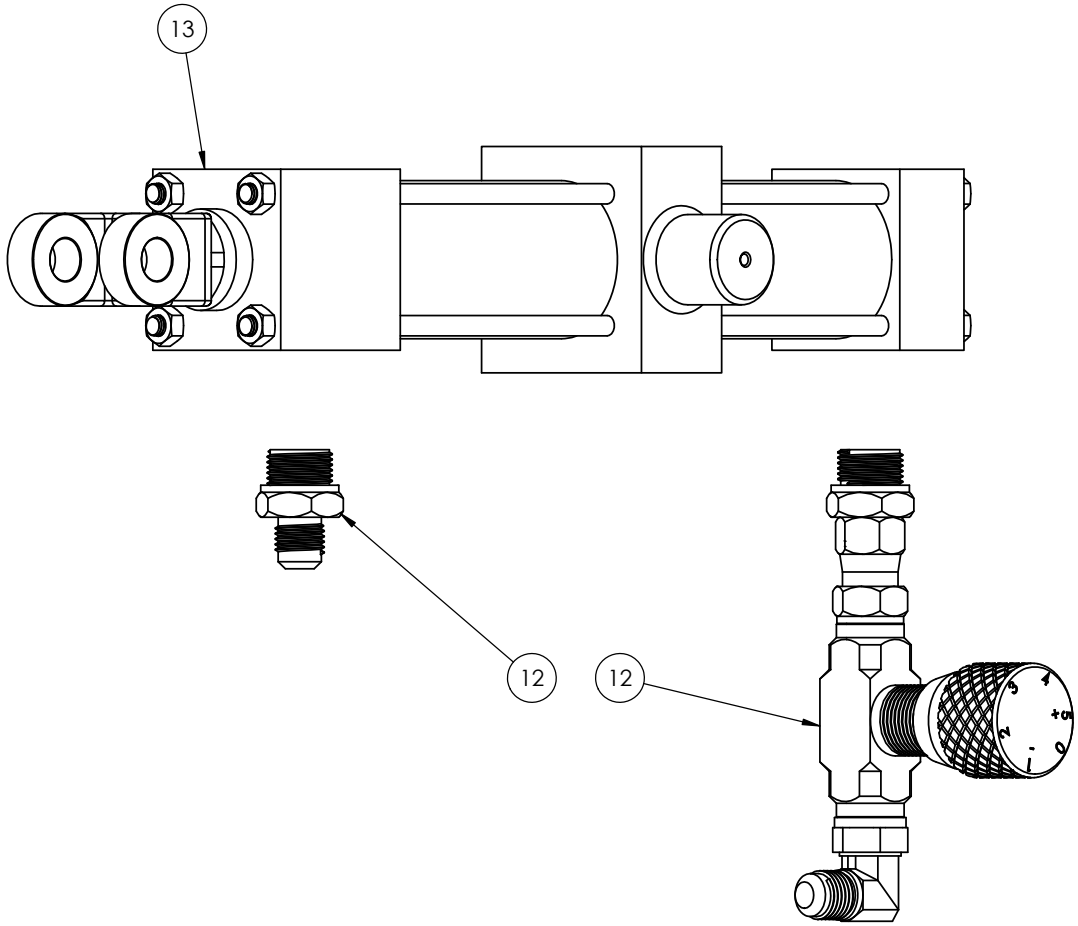
TITLE:
NOZZLE KIT FOR RM65-H

DWG NO. BM0015-AS

A3

SCALE: 1:2

SHEET 5 OF 8



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:	TOLERANCERS UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°	DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES

MAGNUM AUSTRALIA
35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180
PHONE 98018433

	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED	Rocky		01/12/2020	
APPROVED				

TITLE: HDY CYLINDER AND UPPER FLOW CONTROL VALVE KIT

MATERIAL: N/A

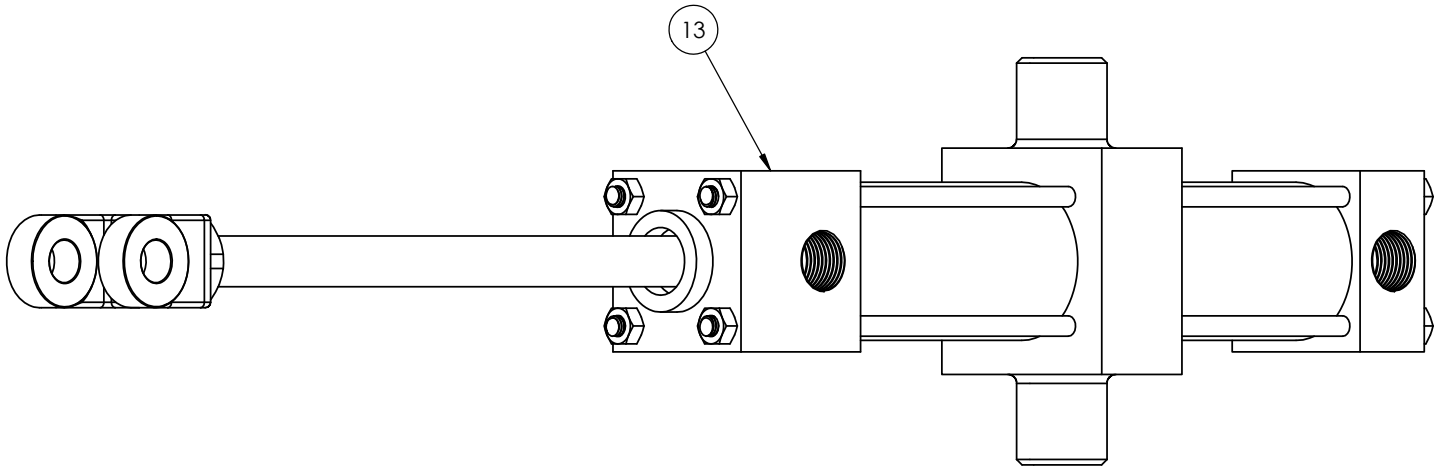
DWG NO. HDYG01U

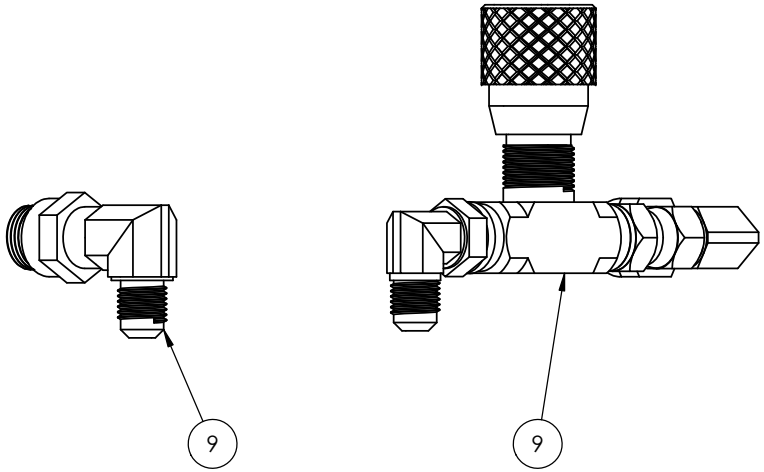
A3

THICKNESS: N/A

SCALE: 2:3

SHEET 6 OF 8





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			MAGNUM AUSTRALIA 35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180 PHONE 98018433	

	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED	Rocky		01/12/2020	
APPROVED				

TITLE: HYD CYLINDER AND LOWER FLOW CONTROL VALVE KIT			
MATERIAL: N/A	DWG NO. HYDFG01L	A3	
THICKNESS: N/A	SCALE: 2:3	SHEET 7 OF 8	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	M10-SW-SS	M10 SPRING WASHER	8
2	M16X50-SS	M16X50X2 HEX HEAD SCREW	2
3	M16-SW-SS	M16 SPRING WASHER	2
4	M16NUT-SS	M16 NUT	2
5	RM65-H-BC	RM65 -H BARE CANNON	1
6	P-25101-8-1-4	REDUCER UPPER PERMALUBLE SUPPORT FLANGE	2
7	A620PFLEX	PERMALUBLE SUPPORT FLANGE	2
8	BM007	GREASE CAPSULE	2
9	HYDFG01L	LOWER FLOW CONTROL VALVE KIT	1
10	RM0025-AS	METRIC ROD END KIT	2
11	RM0028-H-AS	CLEVIS PIN KIT	2
12	HYDFG01U	UPPER FLOW CONTROL VALVE KIT	1
13	HRMC40-170	HYDRAULIC CYLINDER RM65-H	2
14	M10X25-SS	M10X25X1.5 HEX HEAD SCREW	8
15	M10-SW-SS	M10 SPRING WASHER	8
16	CA1-S06	TRUNNION MOUNT	4
17	BM-0015C	NOZZLE GASKET	1
18	BM-0015B	FLIGHT SET	1
19	BM0015	2-1/2 MAGNUM DIRECTOR NOZZLE	1
20	BM0805	COMPLETE BEARING RM65-H	2
21	WB-RK2	BEARING RECONDITIONING KIT RM65-H	2
22	BM0015-AS	NOOZLE KIT RM65-H	1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
PAINT:

TOLERANCERS UNLESS NOTED
WHOLE DIMENSIONS ±0.50
ONE DECIMAL PLACE ±0.25
TWO DECIMAL PLACES ±0.10
ANGLES ±0.30°

DO NOT SCALE DRAWING

DEBURR AND BREAK SHARP EDGES

MAGNUM AUSTRALIA
35 PARKHURST DRIVE KNOXFIELD, VICTORIA 3180
PHONE 98018433

	NAME	SIGNATURE	DATE	REVISION
DRAWN	Alberto C		01/12/2020	
CHECKED	Rocky		01/12/2020	
APPROVED				

TITLE:
WATER CANNON RM65-H

MATERIAL: N/A

DWG NO. RM65-H

A3

THICKNESS: N/A

SCALE: N/A

SHEET 8 OF 8

4. Installation Instructions

1. Weld the flange supplied in the kit to the water cannon supply pipe.
2. Mount the cannon (monitor) and water on / off valve onto the flange using bolts and nuts supplied in the kit. Stabilisers and gussets may be required to ensure that the mounting is secure and rigid. The water on /off valve should be located between the flanges of the water cannon and the mounting flange welded to supply piping. Ensure the monitor is correctly mounted so it CANNOT direct water at the cabin of the vehicle.
3. Activate the Auto Lube grease capsule located on the Monitor Bearings to 12-month grease injection setting.
4. Screw the nozzle to the threaded end of the water cannon. Director Nozzle is standard supply. Foam induction Fog Nozzle (RFIN) is available as an option.
5. Mount the Joystick Cabin Controller Box (electric) in a position that is ergonomic for operator to use.
6. Mount the hydraulic valve manifold in a desired position (external to vehicle cabin). Note: Generally mounted close to the water cannon monitor to allow for short length of hydraulic hoses between the manifold and the cannon.
7. Run the electrical cable 8 m supplied as standard (optional extension cable is available if required) from the cabin control box to the main control box. Cut the cable to the desired length and connect up the plugs.
8. Connect the cable from the Main Control Box to the hydraulic valves on the manifold. Cut the cable to the desired length allowing for neat installation of the wiring to the solenoids. Connect the electrical cables to the solenoid valves using the Hirschmann Plugs supplied and the electric schematic diagram. Ensure all plugs are properly sealed against moisture ingress.
9. Connect the power wire as per the electric schematic.
10. Ensure the hydraulic pressure reducing valve is fitted into the hydraulic system circuit (refer to the system hydraulic circuit).
11. Connect the hydraulic hoses from supply oil to hydraulic valve manifold using 3/8 hoses. See the hydraulic schematic.
12. Connect the hydraulic hoses from hydraulic valve manifold to the return on the tank. See the hydraulic schematic.
13. Connect the required hydraulic hoses as per the hydraulic schematic from the hydraulic manifold to the water cannon. 2 hoses are required for each function.
14. Your Remote Control Water Cannon is now ready for operations.
15. Turn on the vehicle power and air to the unit.
16. Check that all air fittings are correctly fitted and there are no air leaks evident.
17. Check that all hydraulic hoses and fittings are correctly installed and no hydraulic leaks are evident.
18. Check all bolts are securely tightened and no water leaks are evident.
19. Now test the unit with the water pump operating and passing water through the nozzle.
20. Monitor slew and elevation speed can be adjusted to suit your desired operating speed. The speed adjusters (hydraulic needle valves) are located on the piston end of each hydraulic cylinder fitted to the water cannon. Screw them clockwise (in) to slow the unit, or anti-clockwise (out) to increase the speed of operation.
21. A comprehensive parts book has been supplied for your service assistance.

5. Maintenance Schedule

Initial Service

1. The upper and lower bearings have been filled with Multi-Purpose EP Type Grease in the factory at the time of assembly. 4 pumps of grease from a grease gun should be sufficient if a new bearing has been installed.
2. Set the automatic lubrication canister supplied with the cannon to 12 months. This activates the lubricator.
3. Lubricate the rod ends (mounting for cylinders) using Multi-Purpose EP Type Grease. 1 pump of grease from a grease gun should be sufficient.
4. Check the operation of the water cannon; slew and elevation.

Quarterly Service

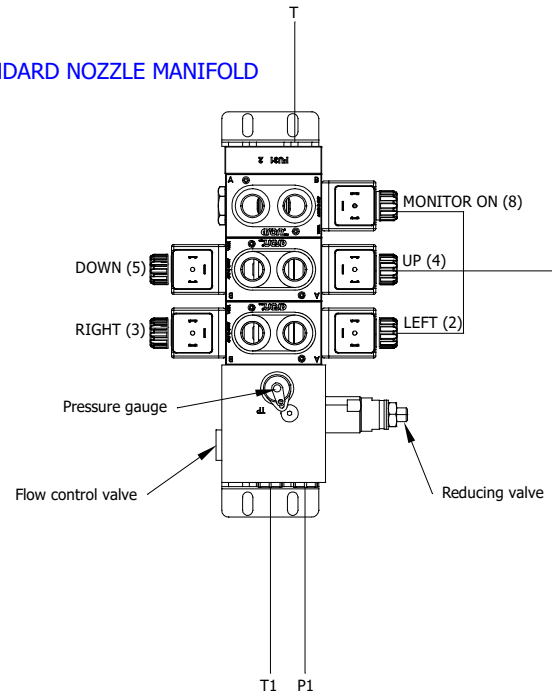
1. Check the condition of the swivel bearings by holding the pipe firmly and shaking it vigorously. There should be no play in the swivel bearing. Replace the seals and wear rings in the swivel bearings if there is any play.
2. Check the waster cannon for leaks. If there is a leak, it will occur at the swivel bearings. Replace the seals and wear rings in the swivel bearings if there is a leak on the water cannon.
3. Lubricate the rod ends (mounting for cylinders) using Multi-Purpose EP Type Grease. 1 pump of grease from a grease gun should be sufficient.
4. Check the automatic lubrication canister. The canister has been initially set up for 12 months. If the ambient temperature is above 40 degrees centigrade, the life of the canister may be reduced. Replace the canister if there is no sign of grease in it. Set the automatic lubrication canister to 12 months. This activates the lubricator.
5. Check the operation of the water cannon; slew and elevation.

Annual Service

1. Strip and inspect the swivel bearing on the cannon. Replace the wear rings and the seals.
2. Install a new automatic lubrication canister as is indicated in quarterly service.

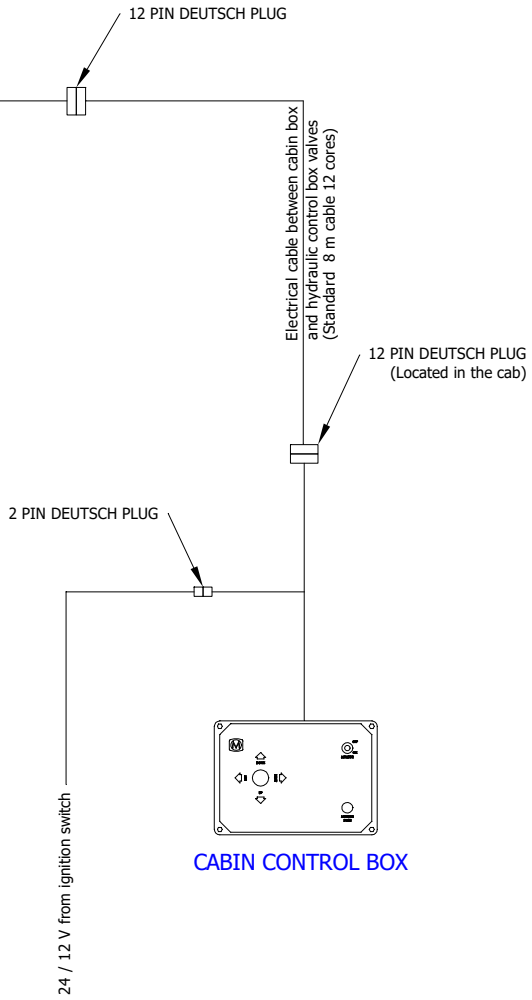
6. Hydraulic Schematic & Hydraulic Information

STANDARD NOZZLE MANIFOLD



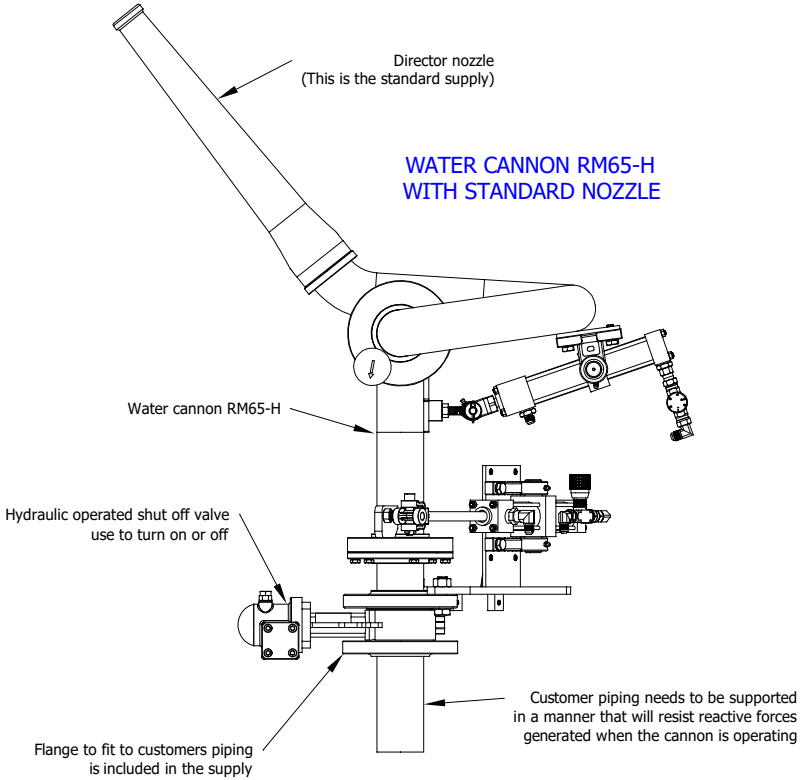
Actual hydraulic manifold will change based on configuration purchased.
(Ports on manifold are 3/8" BSPP)

Hydraulic hoses between valves and actuators required to be installed
(hydraulic hoses and fittings are not supplied)



CABIN CONTROL BOX

WATER CANNON RM65-H WITH STANDARD NOZZLE



Hydraulic hoses between valves and cylinders required to be installed
(hydraulic hoses and fittings are not included in supply)

RM65-H

STANDARD NOZZLE CONFIGURATION HYDRAULIC BUTTERFLY

REV.	DATE	NAME	CHANGES
0	2/12/2020	AlbertoC	

CONTRACT:

LOCATION: +L1 Main electrical closet

User data 1

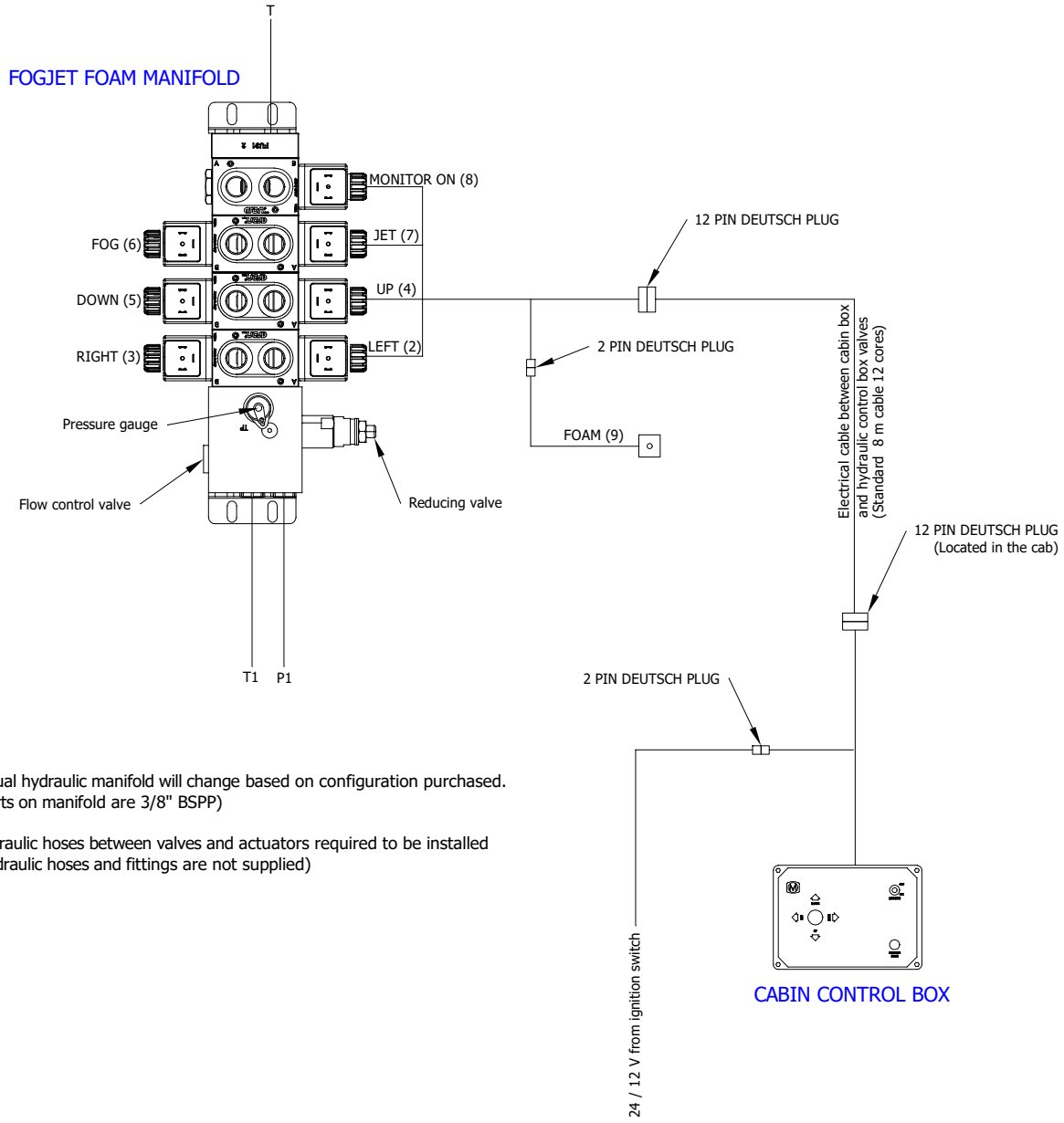
User data 2

REVISION 0

SCHEME 01

SOLIDWORKS Electrical

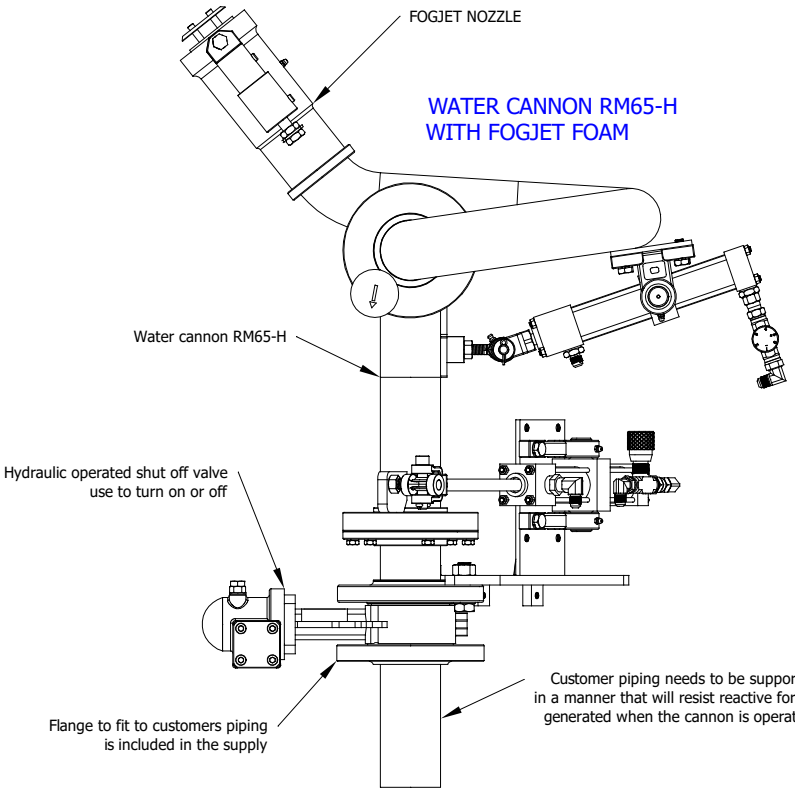
FOGJET FOAM MANIFOLD



Actual hydraulic manifold will change based on configuration purchased.
(Ports on manifold are 3/8" BSPP)

Hydraulic hoses between valves and actuators required to be installed
(hydraulic hoses and fittings are not supplied)

WATER CANNON RM65-H WITH FOGJET FOAM



Hydraulic hoses between valves and cylinders required to be installed
(hydraulic hoses and fittings are not included in supply)

P1 = PRESSURE
T / T1 = TANK

RM65-H

FOGJET & FOAM CONFIGURATION HYDRAULIC BUTTERFLY

CONTRACT:

LOCATION: +L1 Main electrical closet

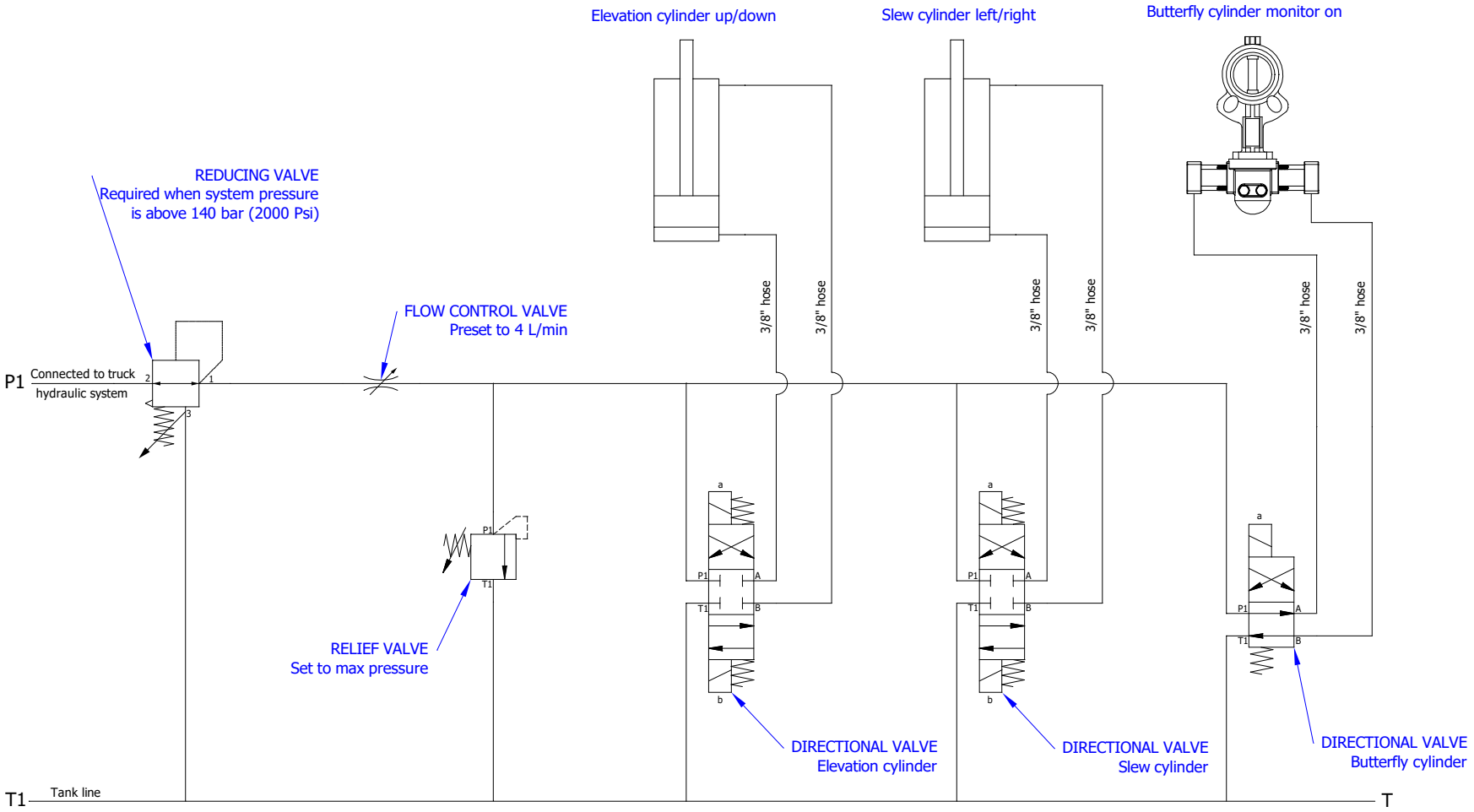
REV.	DATE	NAME	CHANGES
0	2/12/2020	AlbertoC	

User data 1

User data 2

REVISION 0

SCHEME 02



NOTES:
All ports on the manifold are 3/8" BSPP to fit 3/8" hoses
Tank line should be connected directly to the tank by a minimum of 1/2" hose

RM65-H

HYDRAULIC SCHEMATIC
STANDARD NOZZLE

CONTRACT:

LOCATION: +L1 Main electrical closet

REV.	DATE	NAME	CHANGES
0	3/12/2020	AlbertoC	

User data 1

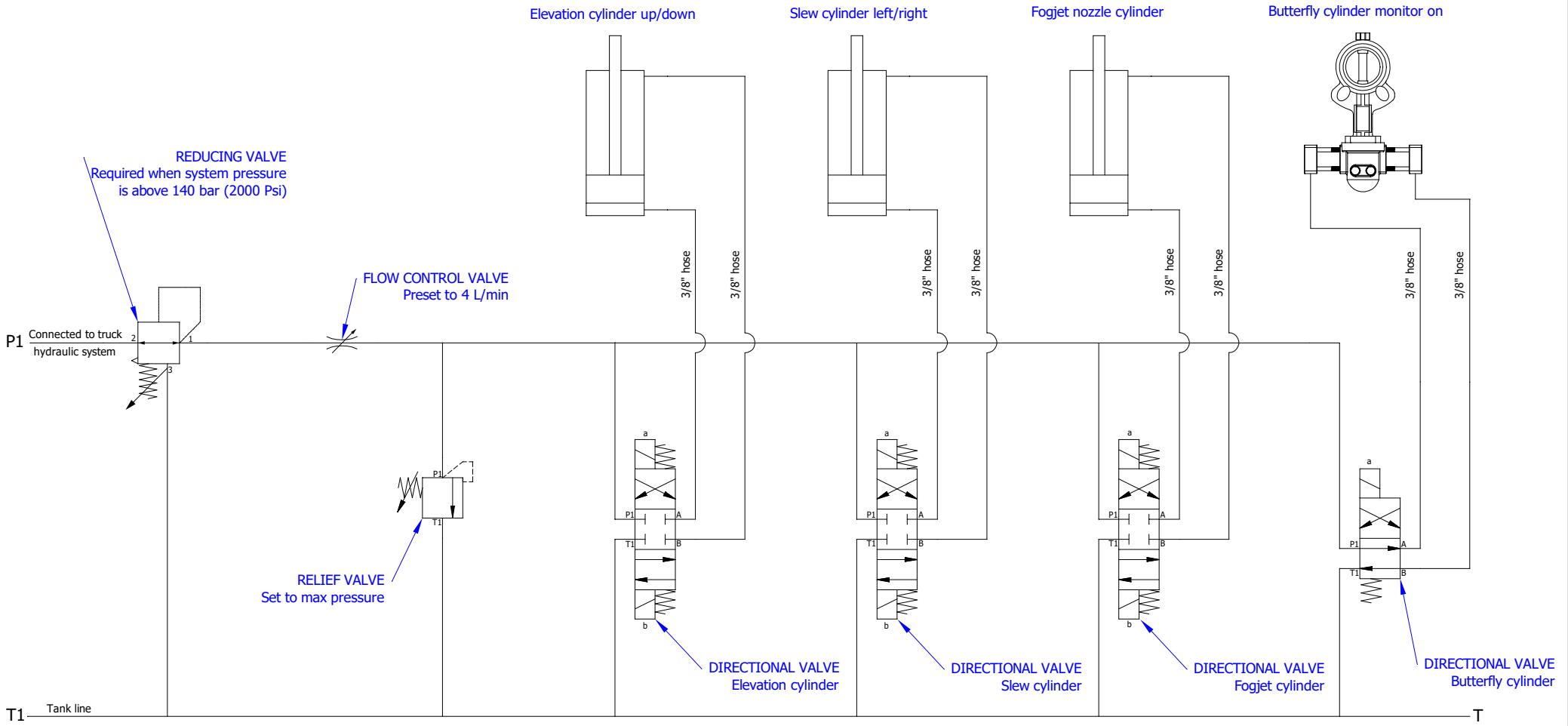
User data 2

REVISION 0

SCHEME 04

SOLIDWORKS Electrical

Document realized with version : 2021.0.0.502



NOTES:
All ports on the manifold are 3/8" BSPP to fit 3/8" hoses
Tank line should be connected directly to the tank by a minimum of 1/2" hose

RM65-H

HYDRAULIC SCHEMATIC
FOGJET & FOAM

REV.	DATE	NAME	CHANGES
0	3/12/2020	AlbertoC	

User data 1

User data 2

CONTRACT:

LOCATION: +L1 Main electrical closet

REVISION 0

SCHEME 03

SOLIDWORKS Electrical

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Water Cannon (hydraulic information)

It is possible to operate RM65-H at a pressure between 35 bar (500 PSI) and 140 bar (2000 PSI). The hydraulic cylinders, valves, and hoses are rated at 140 bar.

Needle valves are fitted to control the overall operating speed of a water cannon movement – left / right / up / down. These valves are fitted directly to the operating hydraulic cylinder / hydraulic motor of the water cannon. The needle valve is fitted to control the finite orifice size of the oil inlet – a smaller orifice = less flow = slower speed of movement.

1 Hydraulic Supply is tapped out of an existing system.

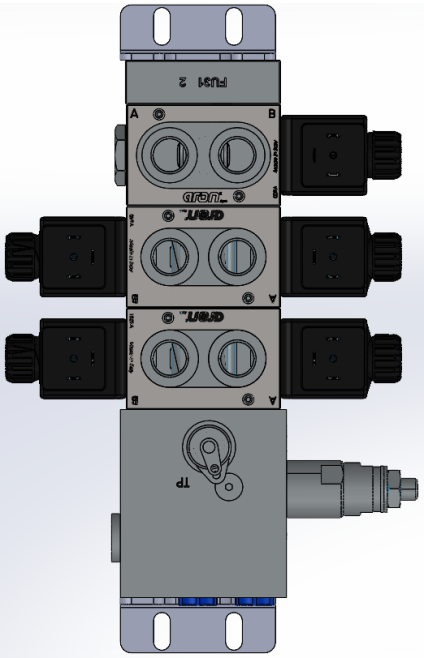
- The pressure must be limited to 35 bar (500 PSI) (See note above).
- Pressure compensated flow control valve is always required to be installed into the system
- Recommended hose size is 3/8” or larger.
- The tank line from the hydraulic control manifold MUST be piped directly back to the system oil tank separately from the return line of the system. Failure to correctly plumb the return oil hydraulic system MAY result in incorrect operation of the system.

2 Hydraulic Supply is taken from a powerpack supplied by Magnum.

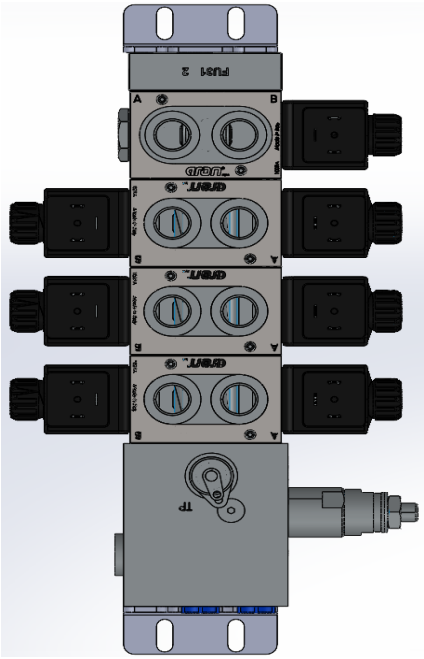
- It is possible to run 1 powerpack with RM65H and double acting spray valves. The reason for this is; RM65H and double acting spray valves can both run at 140 bar (2000 PSI). Pressure up to 140 bar may be needed to close the double acting spray valves under certain operating conditions.
- Pressure control will be by means of the relief valve on the powerpack. The relief valve is located inside the oil reservoir.
- Recommended hose size is 3/8” or larger.
- The tank line from the hydraulic control manifold MUST be piped directly back to the system oil tank separately from the return line of the system. Failure to correctly plumb the return oil hydraulic system MAY result in incorrect operation of the system.

Water Cannon (hydraulic information)

Standard Nozzle Manifold



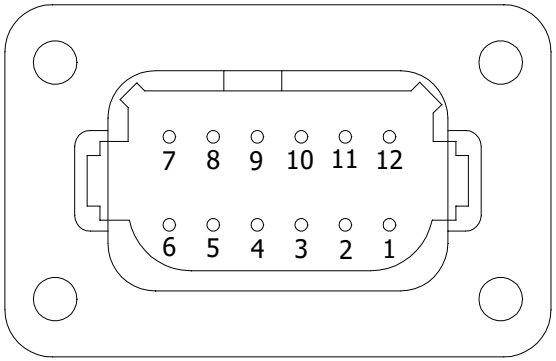
Fogjet & Foam Manifold



- Double solenoid valves are used on cannon functions and the single solenoid are used to open the butterfly valve.
- It is important when support is required from Magnum that we are supplied with all the part numbers between A & B.
- Magnum uses parallel and series valves. Valves are identified by the part number stamped between the A & B on the valve label. Generally, series valves would be used on a powerpack system and all other systems would use parallel valves. Parallel and series valves must not be used on the same assembly.
- Magnum uses single and double acting valves with 1 or 2 solenoids on them.
- All ports on the manifold assembly are 3/8” BSPP. It is important that the correct parallel fittings are used in the valve ports. If tapered fittings are used, it is possible to distort the valve body resulting in the spool jamming and the valve not working. Part numbers for adapters that suit this style of ports are Ryco S74-0609, Parker Triple-Lok 6-6F40MX-S, Aeroquip GG106-NP0606 or equivalents.
- All valves come standard with manual override. These are located in the centre of the tube holding the solenoid to the valve. It is needed an Allen Key or small star screwdriver in order to operate the valve using the manual override. If a function happens using the manual override and it does not happen with the solenoid, it is quite safe to assume that the coil has failed. Electrical coils are easily tested by a person with electrical knowledge using a multi-meter.
- Contamination can jam a valve. If there is a need to strip and clean a valve, cleanliness is most important. It is recommended that the parts from a valve are cleaned using a suitable solvent and those parts are dried using compressed air. No cloth should be used to dry the valve. The valve should be assembled using clean hydraulic fluid.
- It is important that a torque wrench is used to tighten the tie rods when a manifold bank is assembled. The tightening torque to be used is 5 Nm (44 inch lbs). Over tightening the tie rods will result in the valves jamming and failing to operate.

7. Electric Schematic & Electrical Information

12 PIN DEUSTCH PLUG



OUTPUTS

Pin 1 Power <+>
Pin 2 Cannon - Slew Left
Pin 3 Cannon - Slew Right
Pin 4 Cannon - Elevation Up
Pin 5 Cannon - Elevation Down
Pin 6 Fog (Optional)
Pin 7 Jet (Optional)
Pin 8 Monitor Open
Pin 9 Foam
Pin 10 Auxiliary
Pin 11 Auxiliary
Pin 12 Earth (Yellow / Green)

NOTES:
1. The water cannon is controlled through the Deutsch plug.
2. View is looking onto the plug. The wires from the control box are concected to the back of the plug.

CONTRACT:

RM65-H

12 PIN DEUTSCH PLUG CONNECTION

LOCATION: +L1 Main electrical closet

REV.	DATE	NAME	CHANGES
0	3/12/2020	AlbertoC	

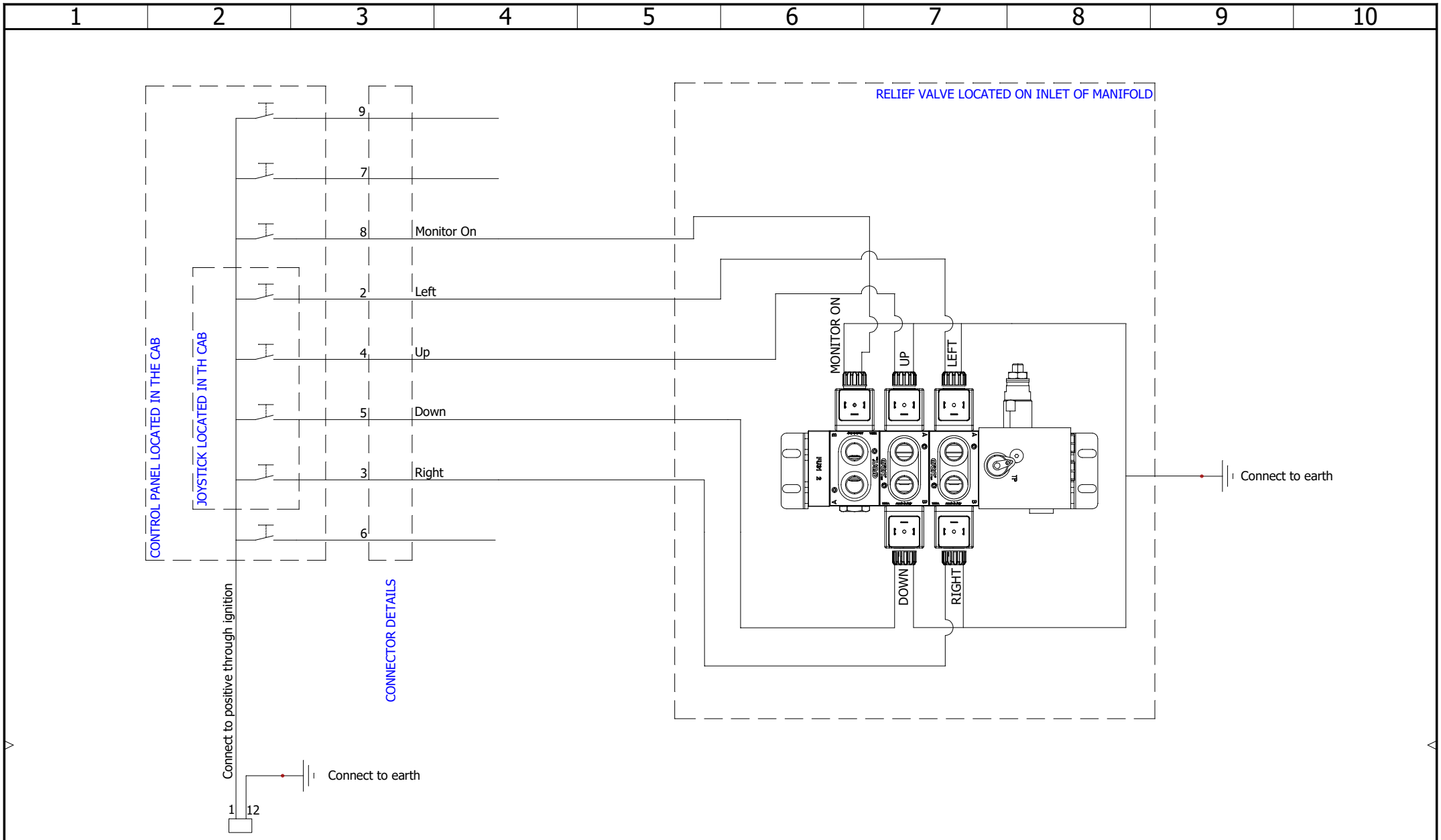
User data 1

User data 2

REVISION 0

SCHEME 05

SOLIDWORKS Electrical



12 core cable between cab and hydraulic valves
Typically number 1 wire is connected to number 1 Pin on 12 Pin deustch connector

RM65-H

JOYSTICK CONTROL BOX STANDARD NOZZLE

CONTRACT:

LOCATION: +L1 Main electrical closet

REV.	DATE	NAME	CHANGES
0	3/12/2020	AlbertoC	

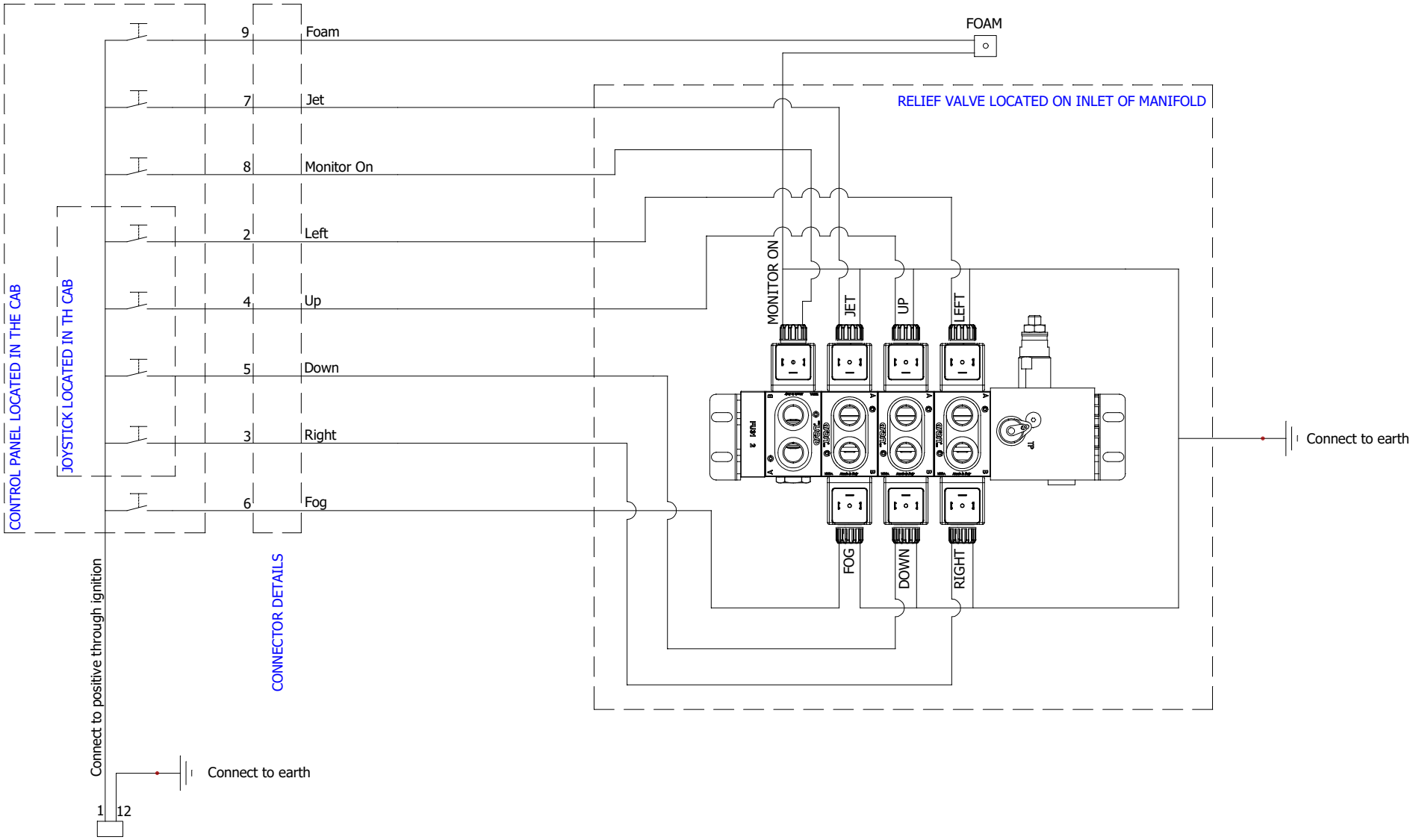
User data 1

User data 2

REVISION 0

SCHEME 07

SOLIDWORKS Electrical



12 core cable between cab and hydraulic valves
Typically number 1 wire is connected to number 1 Pin on 12 Pin deustch connector

RM65-H

JOYSTICK CONTROL BOX
JOGJET & FOAM

REV.	DATE	NAME	CHANGES
0	3/12/2020	AlbertoC	

REVISION 0

SCHEME 06

CONTRACT:

LOCATION: +L1 Main electrical closet

User data 1

User data 2

SOLIDWORKS Electrical

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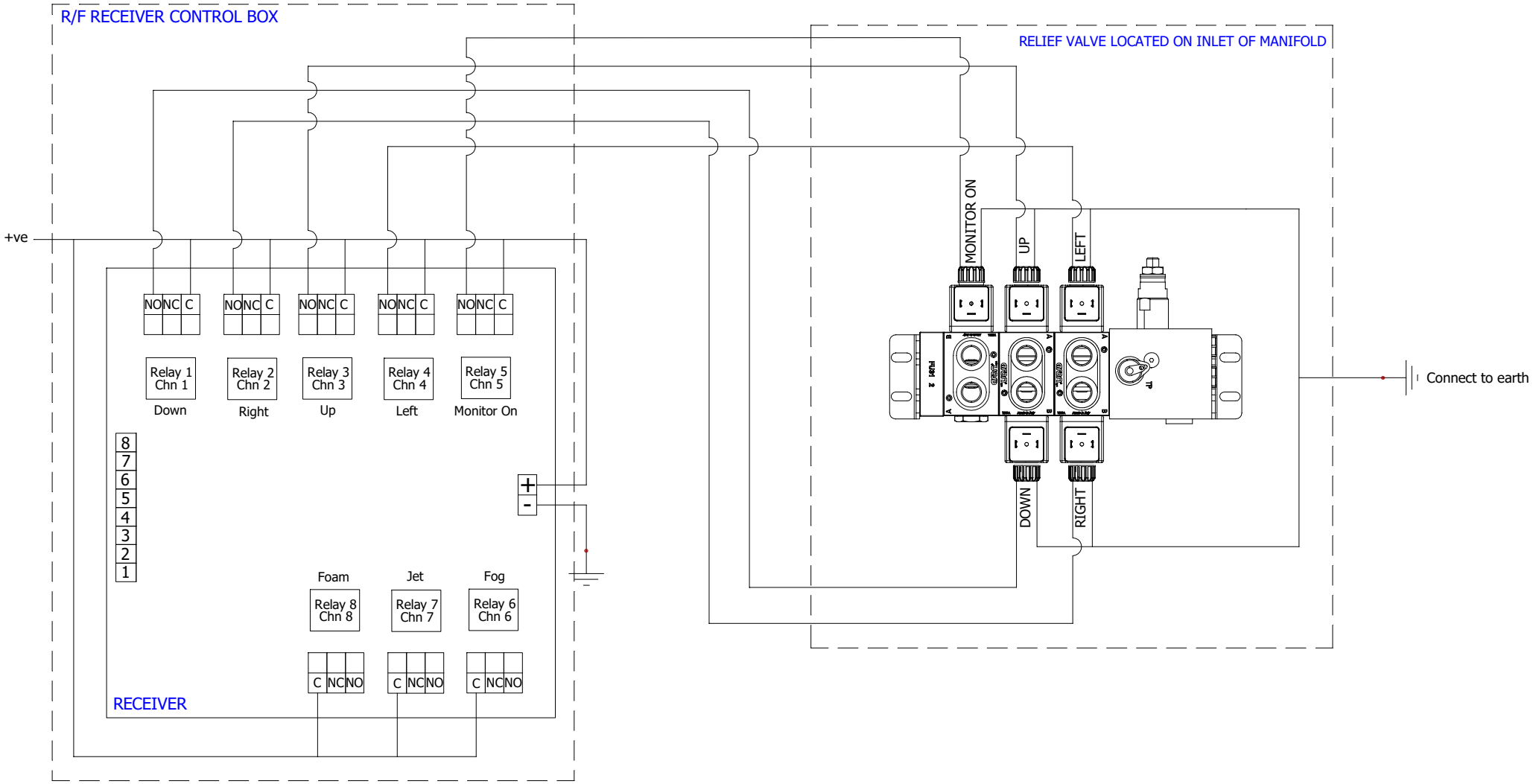

RM65-H

RF CONTROL
STANDARD NOZZLE

REV.	DATE	NAME	CHANGES
0	3/12/2020	AlbertoC	

REVISION 0

SCHEME 09

CONTRACT:

LOCATION: +L1 Main electrical closet

User data 1

User data 2

SOLIDWORKS Electrical

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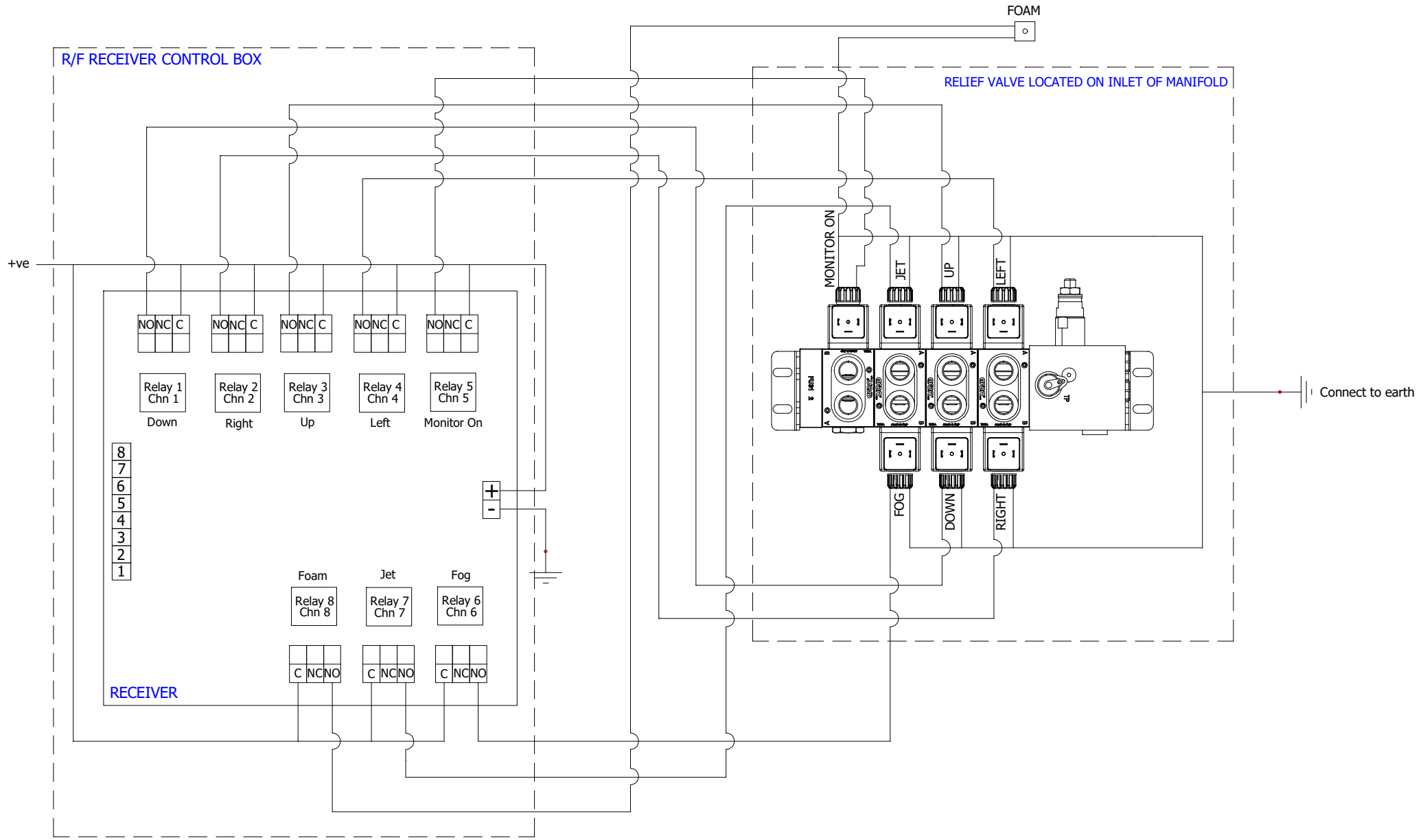

RM65-H

RF CONTROL JOGJET & FOAM

REV.	DATE	NAME	CHANGES
0	3/12/2020	AlbertoC	

REVISION 0

SCHEME 08

CONTRACT:

LOCATION: +L1 Main electrical closet

User data 1

User data 2

SOLIDWORKS Electrical

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Date: 4 December 2020
Revision:
Created: Alberto Ceron (Engineer)
Checked: Rocky Di Battista (Operations Manager)
Approved: Sean Haviland (Director)