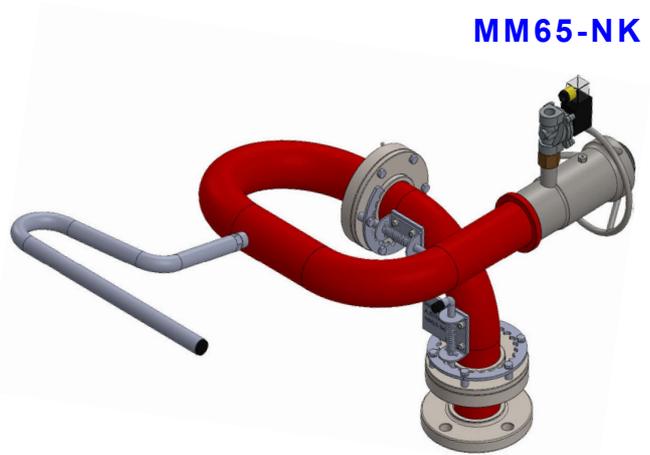




## Water Cannon MM65 & MM65-NK - Manual

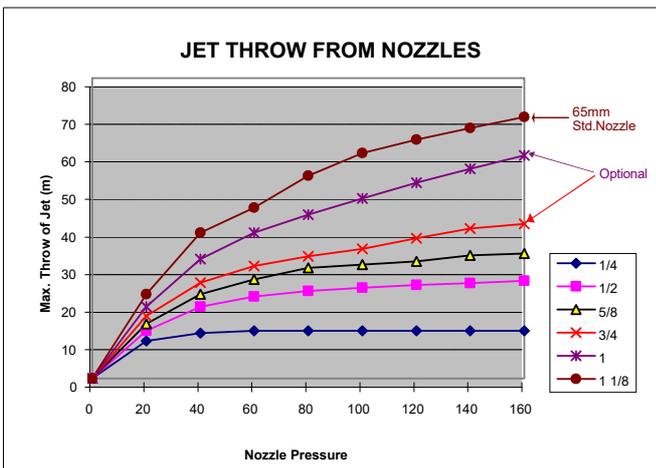
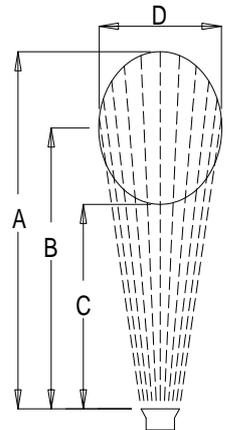


**MM65**



**MM65-NK**

- Easy installation
- Pressure tested to 3000 kPa
- 65mm (2 1/2") ANSI 150lb flanged inlet connection
- T bar handle for controlled operation
- Engineered balanced and compact design
- Positive fixed positional swivel brake locking designed for mobile or fixed mounted applications
- Patented "non-flog" Magnum® Australia swivel bearings
- Accepts Magnum 316 stainless steel fog nozzle for adjustable fan spray
- Director nozzle supplied as standard; 28mm (1 1/8") orifice, 60 m water throw at 7 bar
- All stainless steel fasteners and locking components
- 12 months product warranty
- Spare parts readily available
- Fully serviceable



**FOGJET NOZZLE SPECIFICATIONS**

N1800		THROW - Metres												
PRESSURE (Bar)	FLOW (L/min)	JET (m)	10° SPRAY				20° SPRAY				30° SPRAY			
			A	A	A	A	A	A	A	A	A	A	A	A
5	1500	35	24	22	18	4	18	16	13	7	16	13	10	7
7	1800	50	34	31	26	5	26	23	18	8	23	18	14	10
10	2150	58	38	35	29	6	29	26	20	9	26	20	16	11
15	2650	65	42	39	33	7	33	29	23	10	29	23	18	12



## 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.



## Introduction

The MM65 or MM65-NK water cannon is capable of passing 1,200 L/min and throwing a stream of water up to 60 m using our standard director nozzle and with 6.5 bar pressure available. It offers full 360 degree setting by manual means. The director nozzle is standard supply for the MM65 or MM65-NK. There is a fog-jet nozzle available for the MM65 or MM65-NK (Part Number FJF-65). The water cannon is constructed from heavy wall (Schedule 40) carbon steel (316L optional). The pipework has been formed to provide a long wearing and fully serviceable unit. The swivel bearings are fully welded to the piping. The bearings have been designed as "bolt together" units that are to be serviced every 6 months (or as required). The swivel bearings have provision for grease lubrication to maintain a constant seal within the swivel bearing.

## Installation

The MM65 or MM65-NK water cannon is packed and shipped in a single box. The following items will be found when the box is opened:

1. 1 only assembled MM65 or MM65-NK water cannon consisting of two swivel bearings, locking devices for the slew and elevating movement.
2. 2.5" ANSI 150 lb flange.
3. 1 only director nozzle 1 1/8" orifice.
4. 1 only threaded T bar handle.

Connection to the pipe work is by means of a 2.5" ANSI 150 lb flange Magnum water monitor MM65 or MM65-NK and must be securely mounted via their 4 bolt ANSI mounting flange. Stabilisers and gussets may be required to ensure secure mounting and rigidity of the water monitor. Ensure lubrication is maintained to the swivel bearings and associated moving parts. The connection for the piping is a 2.5" ANSI 150 lb flange. Simply mount an isolating valve onto the outlet of your pipe and then assemble water cannon onto the outlet of the isolating valve. Screw the T bar handle into position (the location point for the T bar handle can be found between the 2 bearings). Screw the nozzle on to the end of the cannon. Your water cannon are now ready for work.

## Operation

Unlock the position locking mechanism and twist the water cannon into the required configuration. Lock the position locking mechanism once you are satisfied with the setting of the MM65 or MM65-NK configurations. The cannon is operated by opening the isolating valves if the system is up to pressure or by starting the water pump when the isolating valve is opened.



## 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 operation of the water cannon; slew and elevation.

### Annual Service

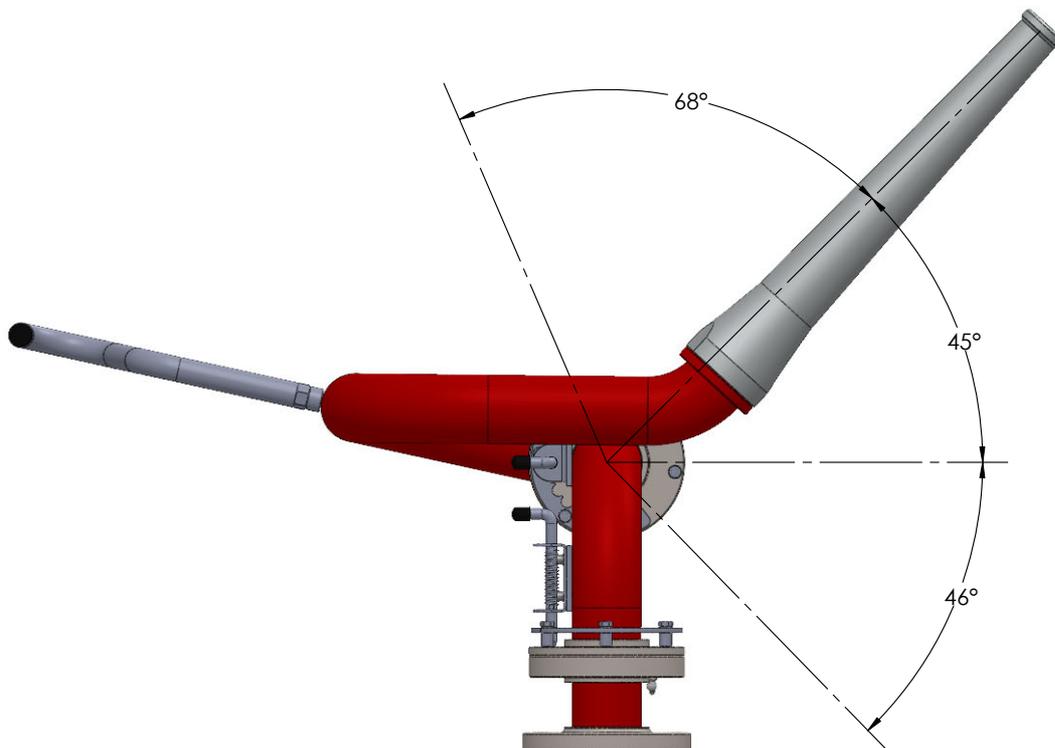
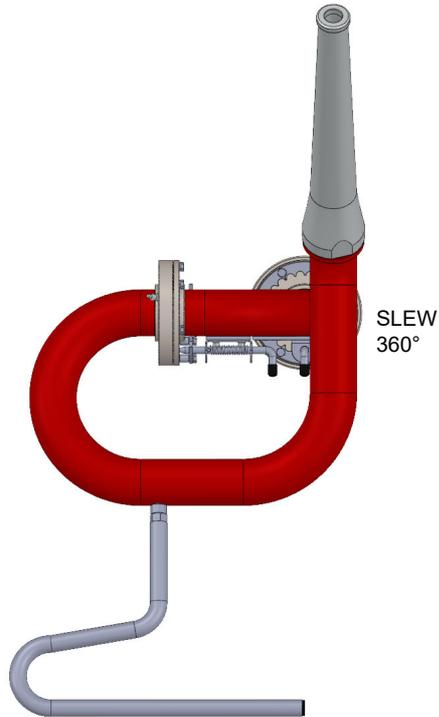
1. Strip and inspect the swivel bearing on the cannon. Replace the wear rings and the seals.
2. Install a new automatic lubrication canister as is indicated in quarterly service.



## Configurations

There are two configurations for the MM65 water cannon:

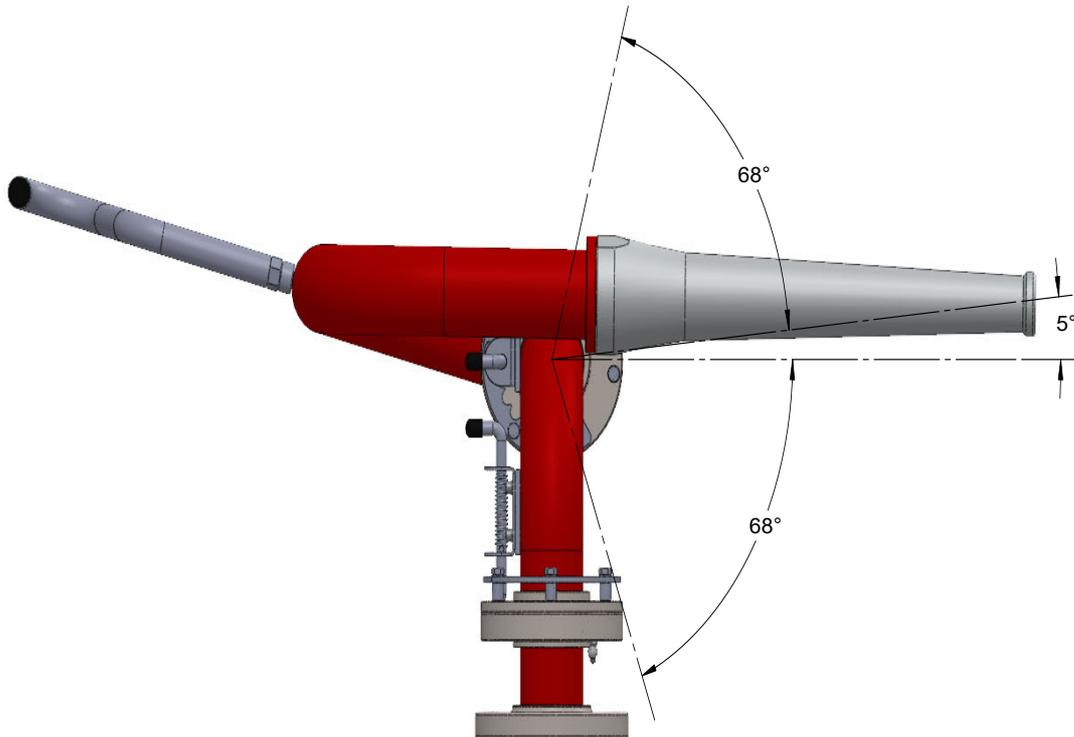
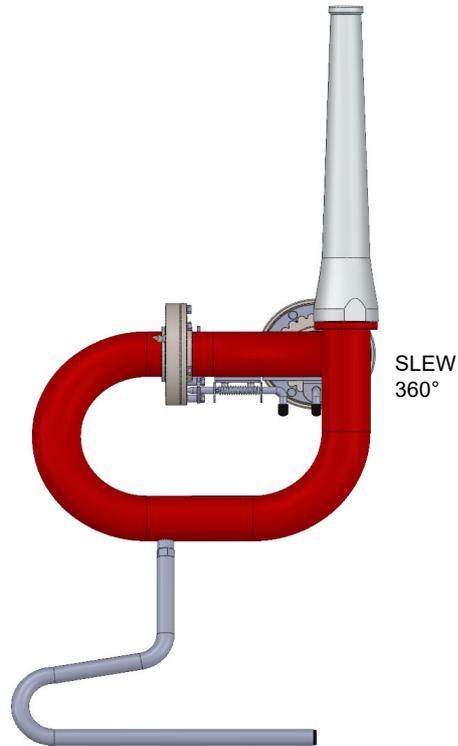
- MM65  
The MM65 comes with a top sweep (item 20) which is connected to the nozzle with a 45° angle.





## Configurations

- MM65-NK (Non-Kick)  
The MM65-NK comes with a top sweep (item 20) which is connected to the nozzle without a 45° angle.





**MAGNUM AUSTRALIA P/L**

ABN: 66 134 090 243

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# Water Cannon

## MM65

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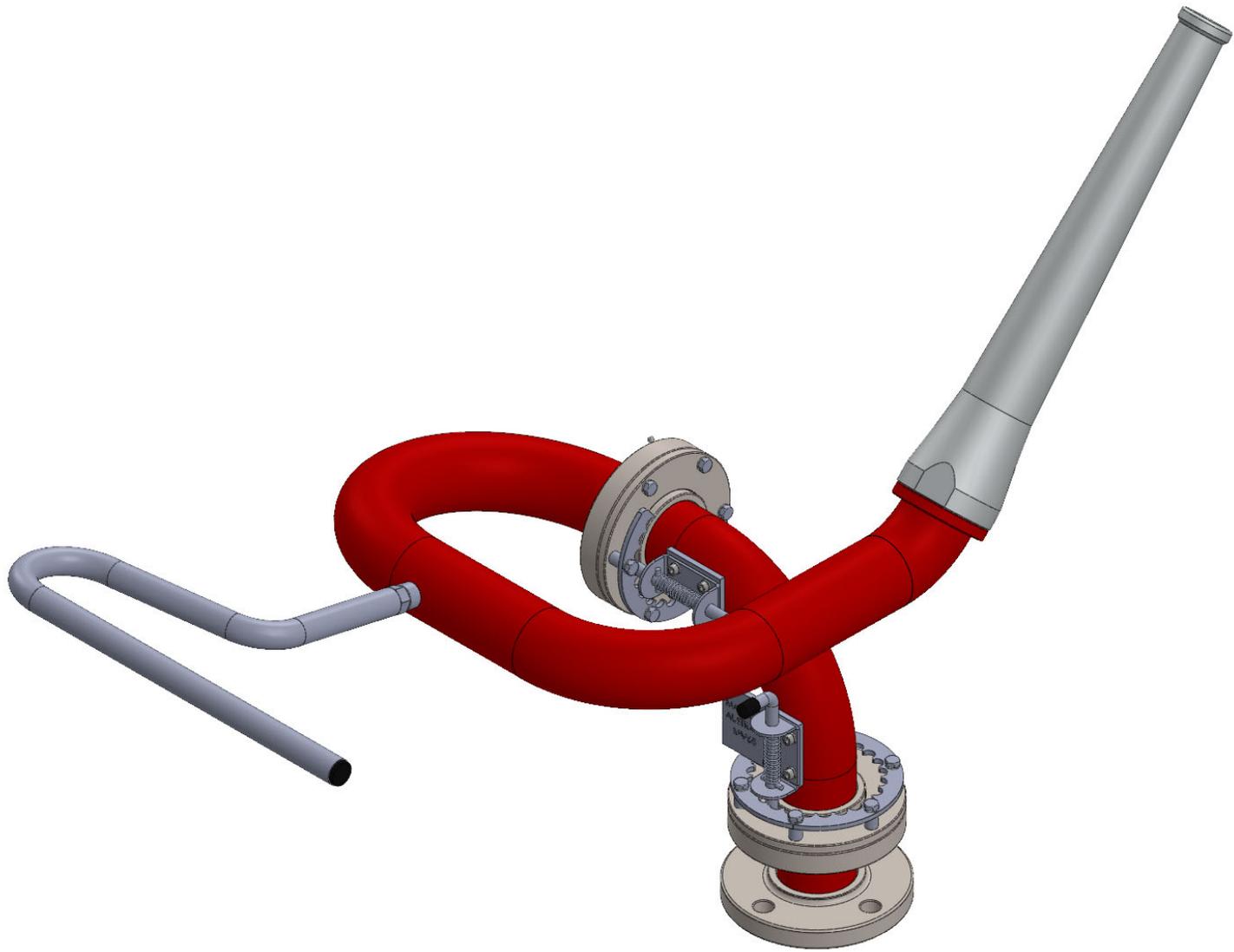
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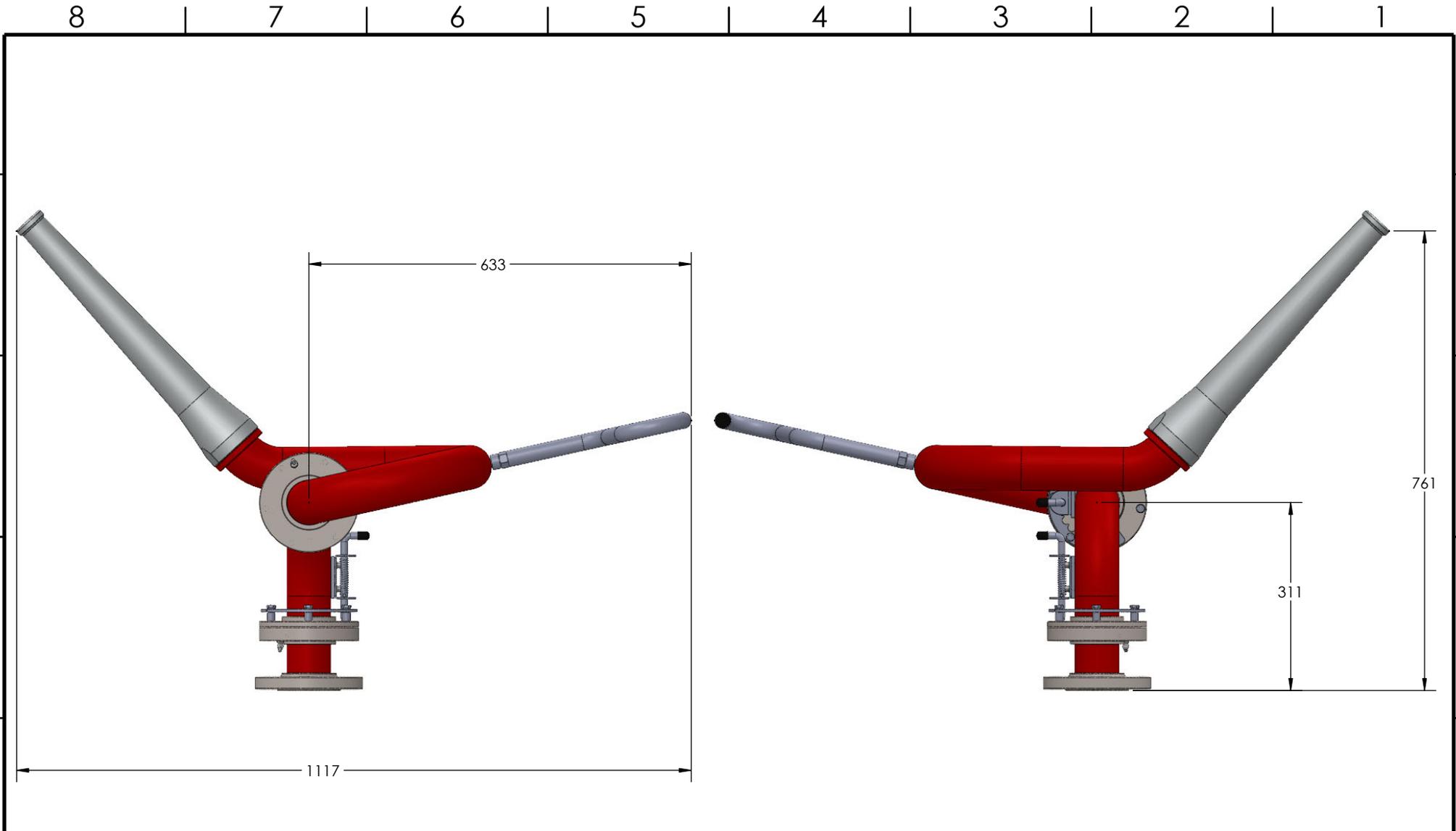
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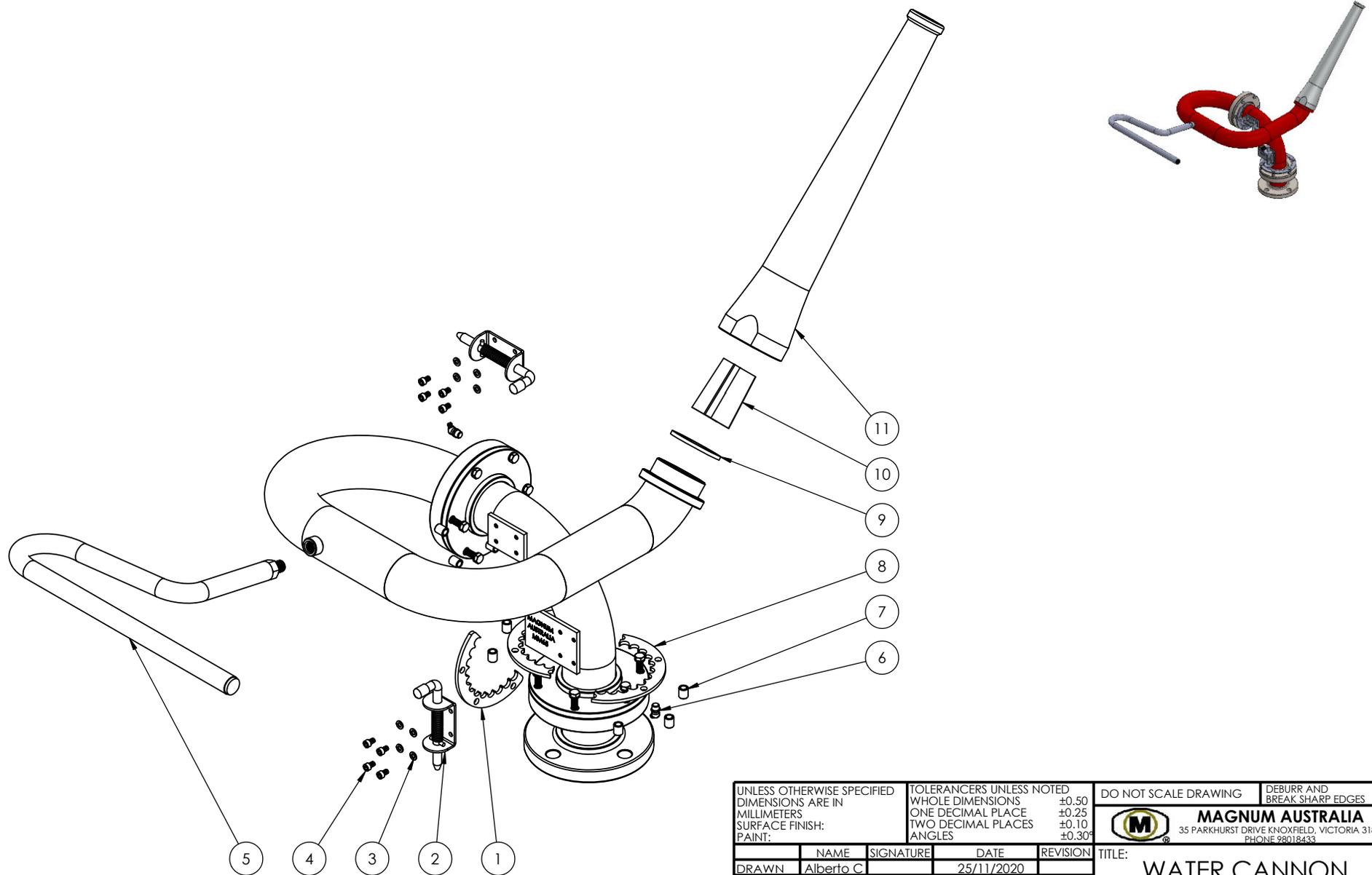
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SURFACE FINISH:		PAINT:		 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 22018433</small>	
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CHECKED	Alberto C		25/11/2020		WATER CANNON MM65
APPROVED					
					DWG NO.
			MATERIAL:		MM65
			N/A		
			THICKNESS: N/A		A3
					SCALE: 1:4
					SHEET 1 OF 9



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				 <b>MAGNUM AUSTRALIA</b> 35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433	
	NAME	SIGNATURE	DATE	REVISION	TITLE:
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CHECKED					
APPROVED					
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					MM65
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					THICKNESS: N/A
					SCALE: 1:6
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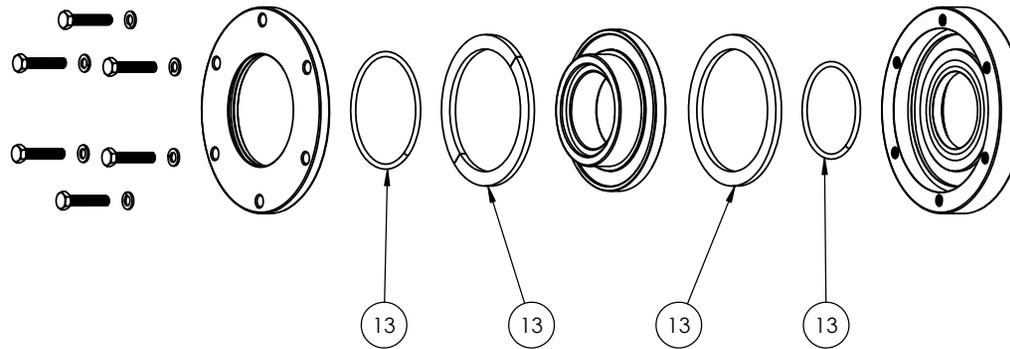
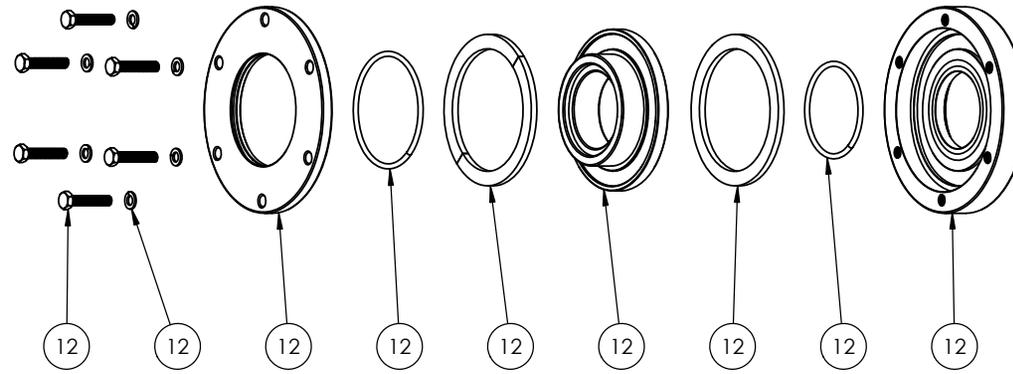
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES	
SURFACE FINISH:		PAINT:		 <b>MAGNUM AUSTRALIA</b> 35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433		
	NAME	SIGNATURE	DATE	REVISION	TITLE:	
DRAWN	Alberto C		25/11/2020		<b>WATER CANNON MM65</b>	
CHECKED	Rocky		25/11/2020			
APPROVED						
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					MM65	A3
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						SHEET 3 OF 7

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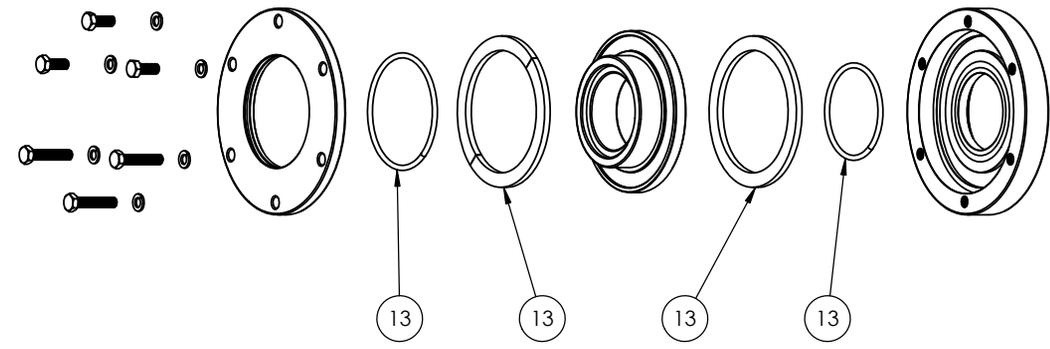
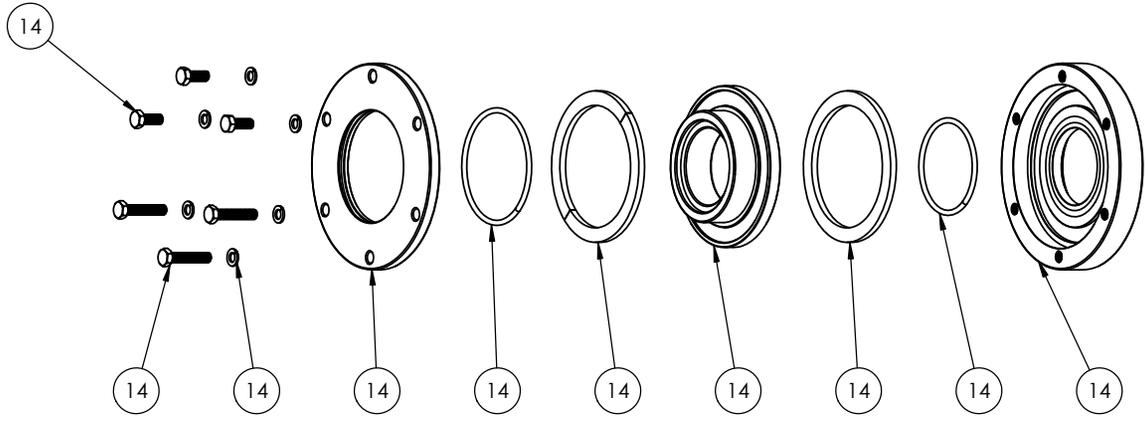
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES
SURFACE FINISH:		PAINT:		 <b>MAGNUM AUSTRALIA</b> 35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433	
	NAME	SIGNATURE	DATE	REVISION	TITLE:
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CHECKED	Rocky		25/11/2020		
APPROVED					
					DWG NO.
					BM0805-L
					A3
					THICKNESS: N/A
					SCALE: 1:4
					SHEET 4 OF 7

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES 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
SURFACE FINISH: PAINT:				 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433</small>	
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CHECKED	Rocky		25/11/2020		
APPROVED					
					DWG NO.
					BM0805-U
					MATERIAL: N/A
					THICKNESS: N/A
					SCALE: 1:4
					SHEET 5 OF 7

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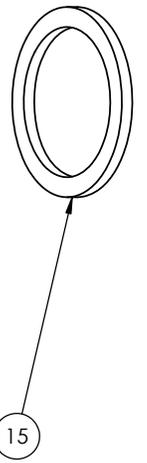
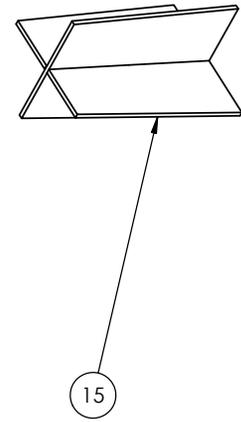
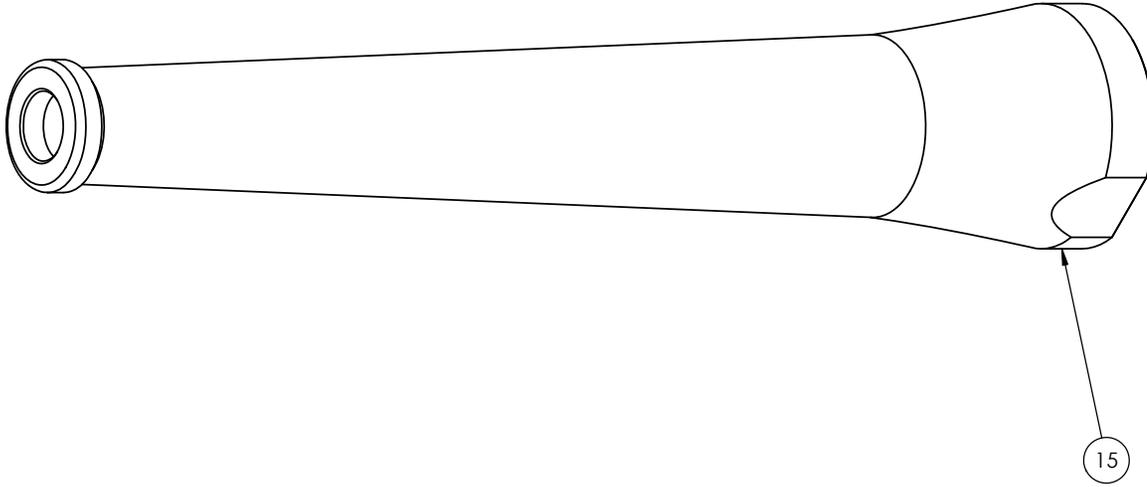
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES
SURFACE FINISH:		PAINT:		 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 22018433</small>	
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APPROVED	Rocky		25/11/2020		
					DWG NO.
			MATERIAL:		BM0015-AS
			N/A		A3
			THICKNESS: N/A		SCALE: 1:2
					SHEET 6 OF 7

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MM65-057	UPPER LOCKING PLATE	1
2	MM65-060	LOCKING BOLT	2
3	M6-SW-SS	M6 SPRING WASHER	8
4	M6X10-SHCS	M6X10X1 SOCKET HEAD SCREW	8
5	MM65-014HN	HANDLE FOR MM65	1
6	NIP02	1/8 GREASE NIPPLE 45°	2
7	MM65-059	LOCKING PLATE SPACER 15 mm	9
8	MM65-058	LOWER LOCKING PLATE	2
9	BM-0015C	NOZZLE GASKET	1
10	BM-0015B	FLIGHT SET	1
11	BM0015	2-1/2 MAGNUM DIRECTOR NOZZLE	1
12	BM0805-L	COMPLETE LOWER BEARING FOR MM65	1
13	WB-RK2	BEARING RECONDITIONING KIT FOR MM65	2
14	BM0805-U	COMPLETE UPPER BEARING FOR MM65	1
15	BM0015-AS	NOZZLE KIT FOR MM65	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES 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
SURFACE FINISH: PAINT:				 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433</small>	
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CHECKED	Rocky		25/11/2020		
APPROVED					
					DWG NO.
					MM65
					A3
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**MAGNUM AUSTRALIA P/L**

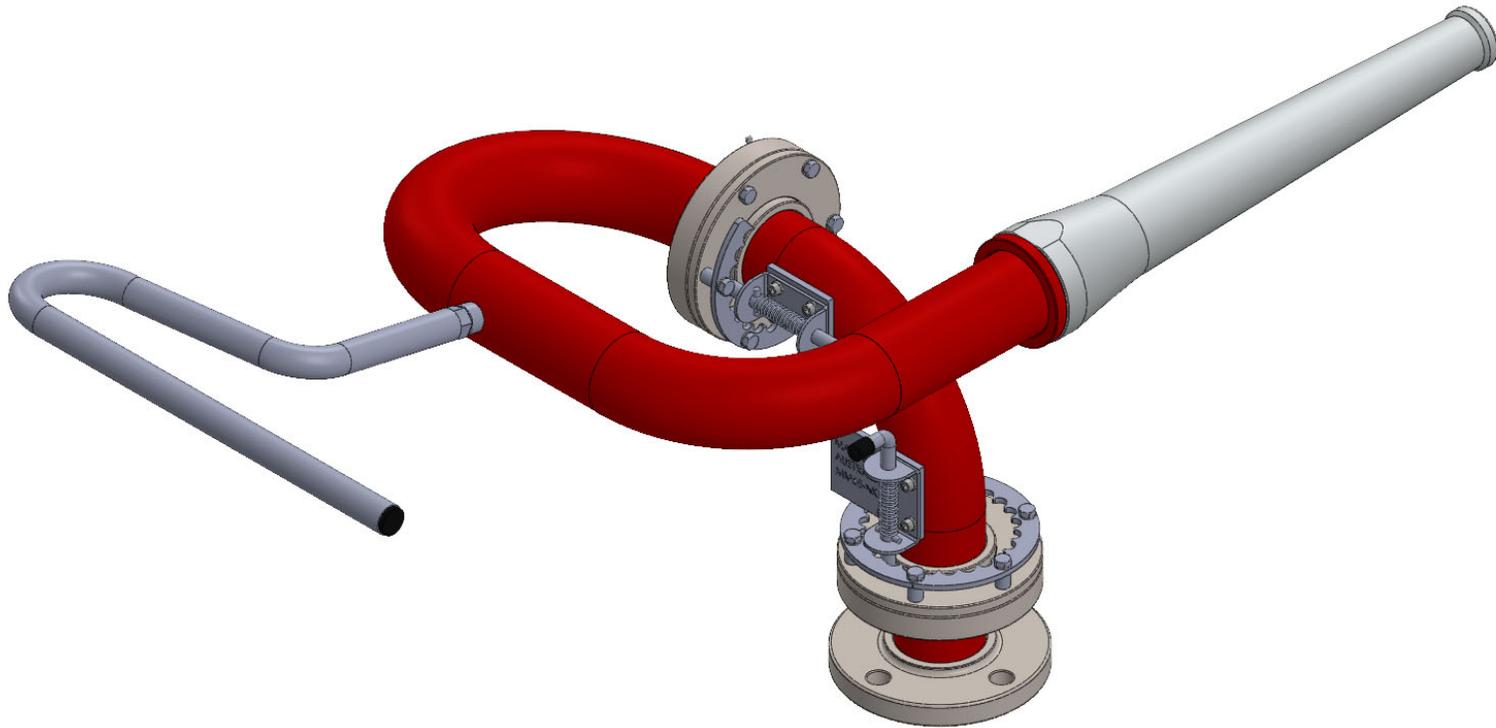
ABN: 66 134 090 243

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# Water Cannon

## MM65-NK

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CHECKED					
APPROVED					
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					MM65-NK
					A3
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					SCALE: 1:4
					SHEET 1 OF 7

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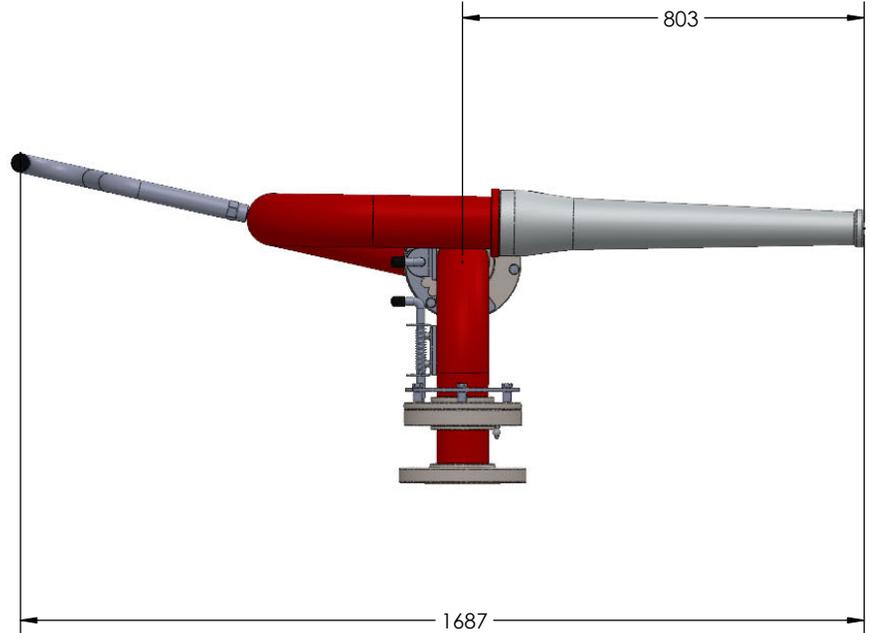
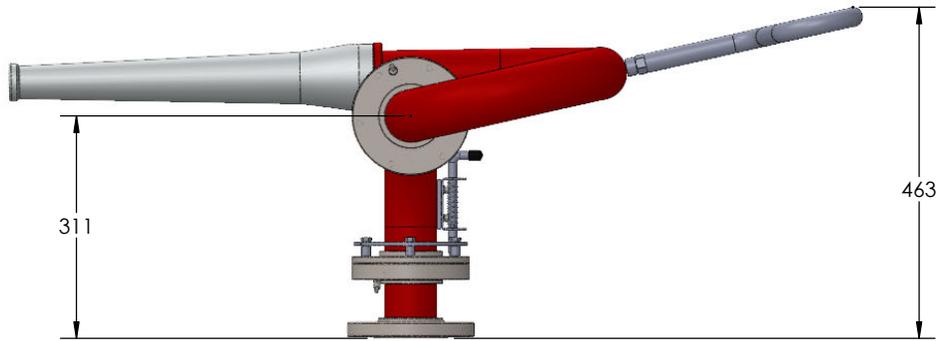
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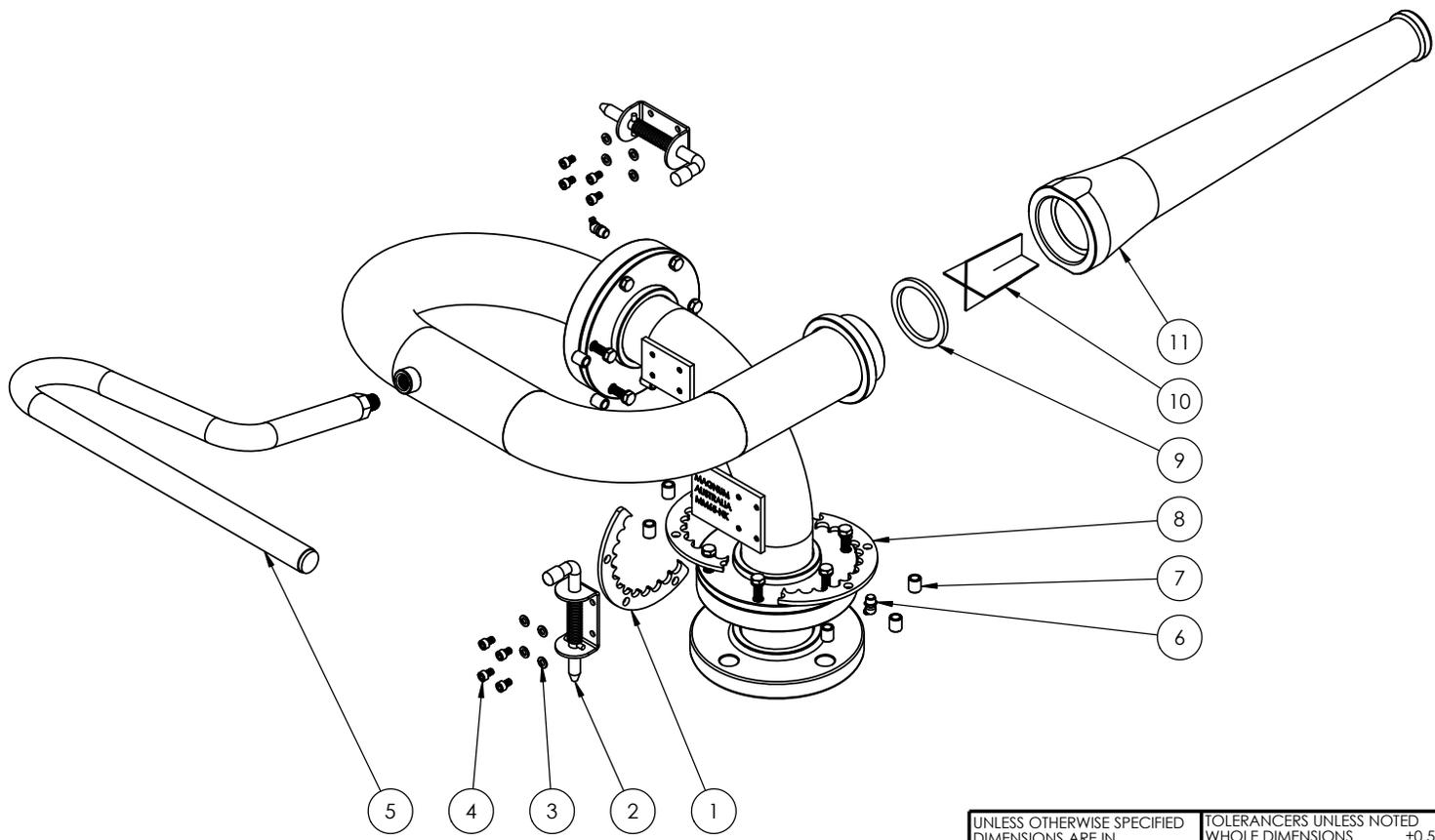
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES		
SURFACE FINISH: PAINT:				 <b>MAGNUM AUSTRALIA</b> 35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433			
	NAME	SIGNATURE	DATE	REVISION	TITLE:		
DRAWN	Alberto C		25/11/2020		<b>WATER CANNON MM65-NK</b>		
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APPROVED							
					DWG NO.		
					MM65-NK		
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A3							
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SCALE: 1:7	SHEET 2 OF 7						

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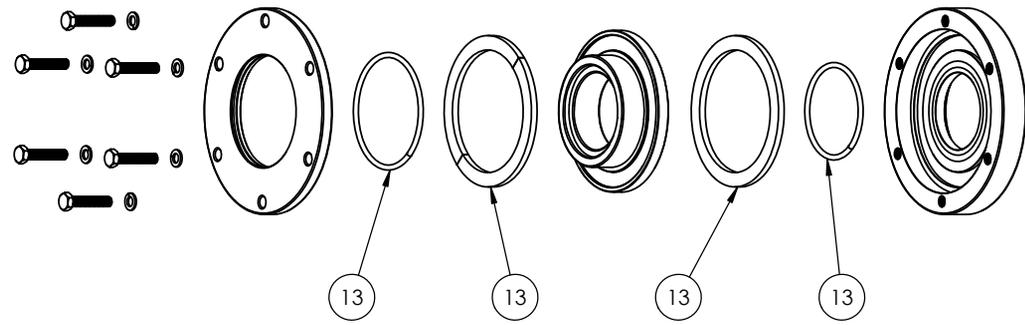
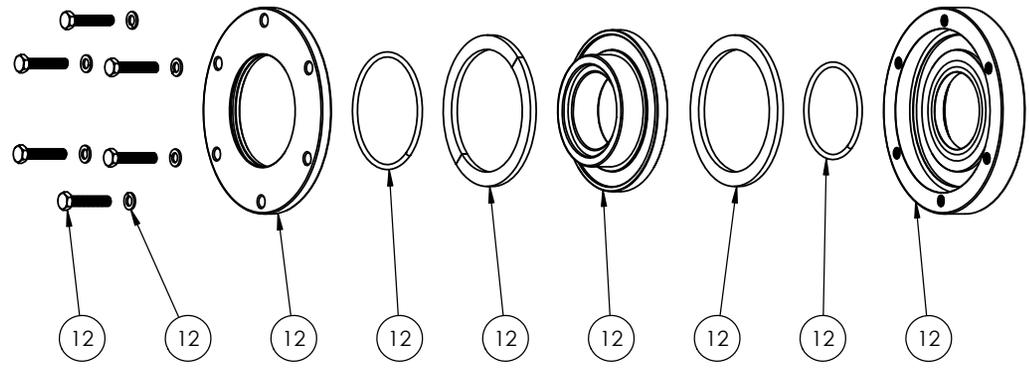
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES
SURFACE FINISH:		PAINT:		 <b>MAGNUM AUSTRALIA</b> 35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433	
NAME	SIGNATURE	DATE	REVISION	TITLE:	
DRAWN Alberto C		25/11/2020		<b>WATER CANNON MM65-NK</b>	
CHECKED Rocky		25/11/2020			
APPROVED					
MATERIAL:			DWG NO.		<b>A3</b>
N/A			MM65-NK		
THICKNESS: N/A			SCALE: 1:5		SHEET 3 OF 7

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES 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
SURFACE FINISH: PAINT:				 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 22018433</small>	
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CHECKED	Rocky		25/11/2020		
APPROVED					
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					BM0805-L
					A3
					THICKNESS: N/A
					SCALE: 1:4
					SHEET 4 OF 7

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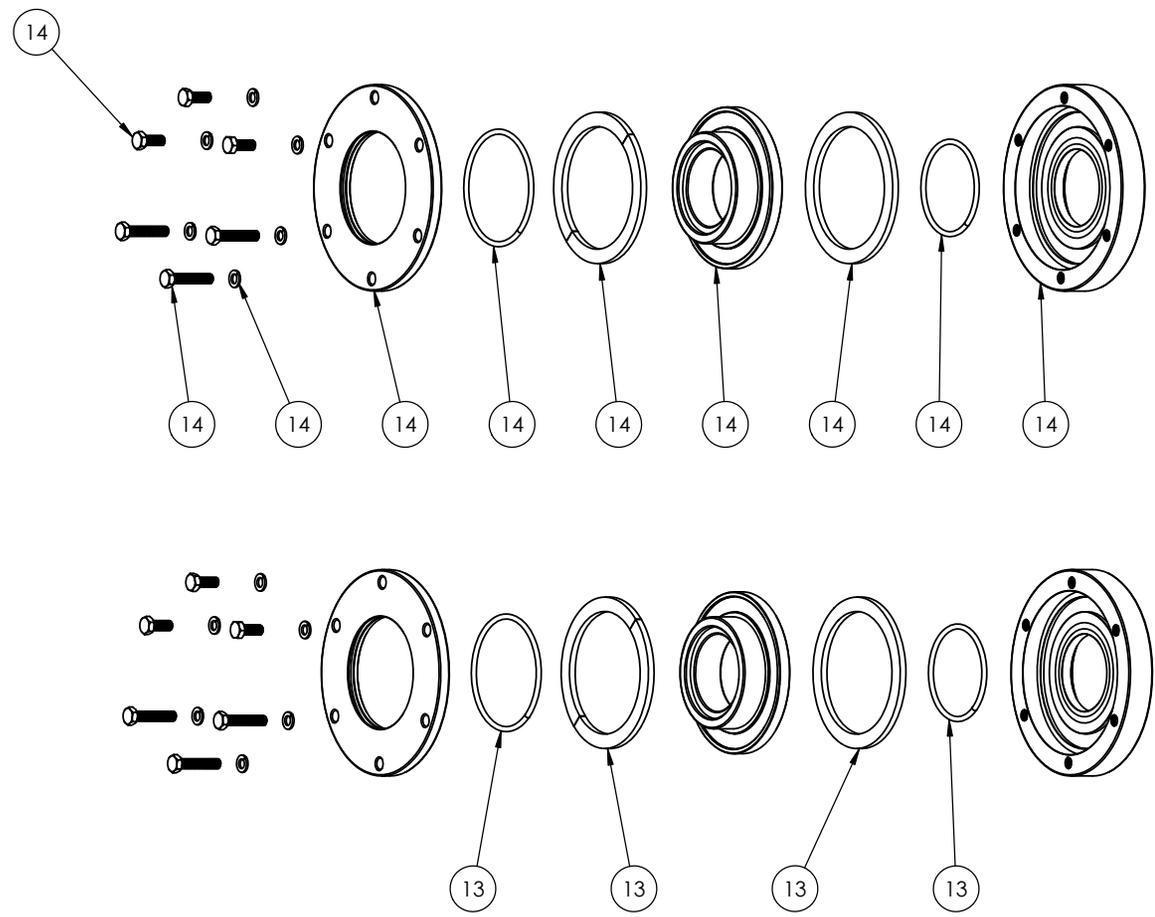
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES UNLESS NOTED WHOLE DIMENSIONS ±0.50 ONE DECIMAL PLACE ±0.25 TWO DECIMAL PLACES ±0.10 ANGLES ±0.30°		DO NOT SCALE DRAWING	DEBURR AND BREAK SHARP EDGES
SURFACE FINISH: PAINT:				 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433</small>	
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DRAWN	Alberto C		25/11/2020		COMPLETE UPPER BEARING AND RECONDITIONING KIT FOR MM65-NK
CHECKED	Rocky		25/11/2020		
APPROVED					
			MATERIAL:	DWG NO.	
			N/A	BM0805-U	
			THICKNESS: N/A	SCALE: 1:4	
					SHEET 5 OF 7

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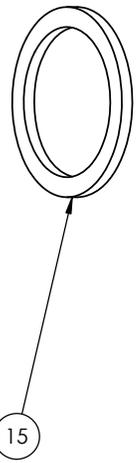
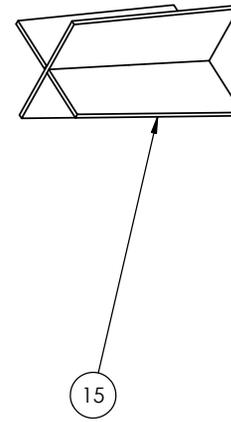
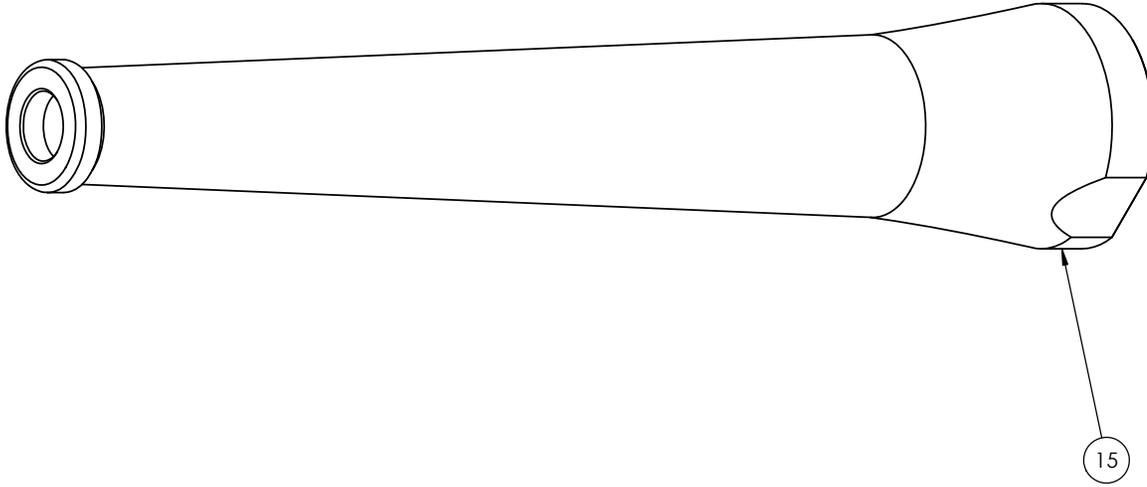
C

B

B

A

A



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: PAINT:		TOLERANCES 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
				 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433</small>	
	NAME	SIGNATURE	DATE	REVISION	TITLE:
DRAWN	Alberto C		25/11/2020		<b>NOZZLE KIT FOR MM65-NK</b>
CHECKED	Rocky		25/11/2020		
APPROVED					
					DWG NO.
					BM0015-AS
					SCALE: 1:2
					SHEET 6 OF 7

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MM65-057	UPPER LOCKING PLATE	1
2	MM65-060	LOCKING BOLT	2
3	M6-SW-SS	M6 SPRING WASHER	8
4	M6X10-SHCS	M6X10X1 SOCKET HEAD SCREW	8
5	MM65-014HN	HANDLE FOR MM65	1
6	NIP02	1/8 GREASE NIPPLE 45°	2
7	MM65-059	LOCKING PLATE SPACER 15 mm	9
8	MM65-058	LOWER LOCKING PLATE	2
9	BM-0015C	NOZZLE GASKET	1
10	BM-0015B	FLIGHT SET	1
11	BM0015	2-1/2 MAGNUM DIRECTOR NOZZLE	1
12	BM0805-L	COMPLETE LOWER BEARING FOR MM65-NK	1
13	WB-RK2	BEARING RECONDITIONING KIT FOR MM65-NK	2
14	BM0805-U	COMPLETE UPPER BEARING FOR MM65-NK	1
15	BM0015-AS	NOZZLE KIT FOR MM65-NK	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS		TOLERANCES 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
SURFACE FINISH: PAINT:				 <b>MAGNUM AUSTRALIA</b> <small>35 PARKHURST DRIVE KNOXFELD, VICTORIA 3180 PHONE 28018433</small>	
	NAME	SIGNATURE	DATE	REVISION	TITLE:
DRAWN	Alberto C		25/11/2020		WATER CANNON MM65-NK
CHECKED	Rocky		25/11/2020		
APPROVED					
					DWG NO.
					MM65-NK
					A3
					THICKNESS: N/A
					SCALE: N/A
					SHEET 7 OF 7

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1



**Date: 1 December 2020**

**Revision:**

**Created: Alberto Ceron (Engineer)**

**Checked: Rocky Di Battista (Operations Manager)**

**Approved: Sean Haviland (Director)**