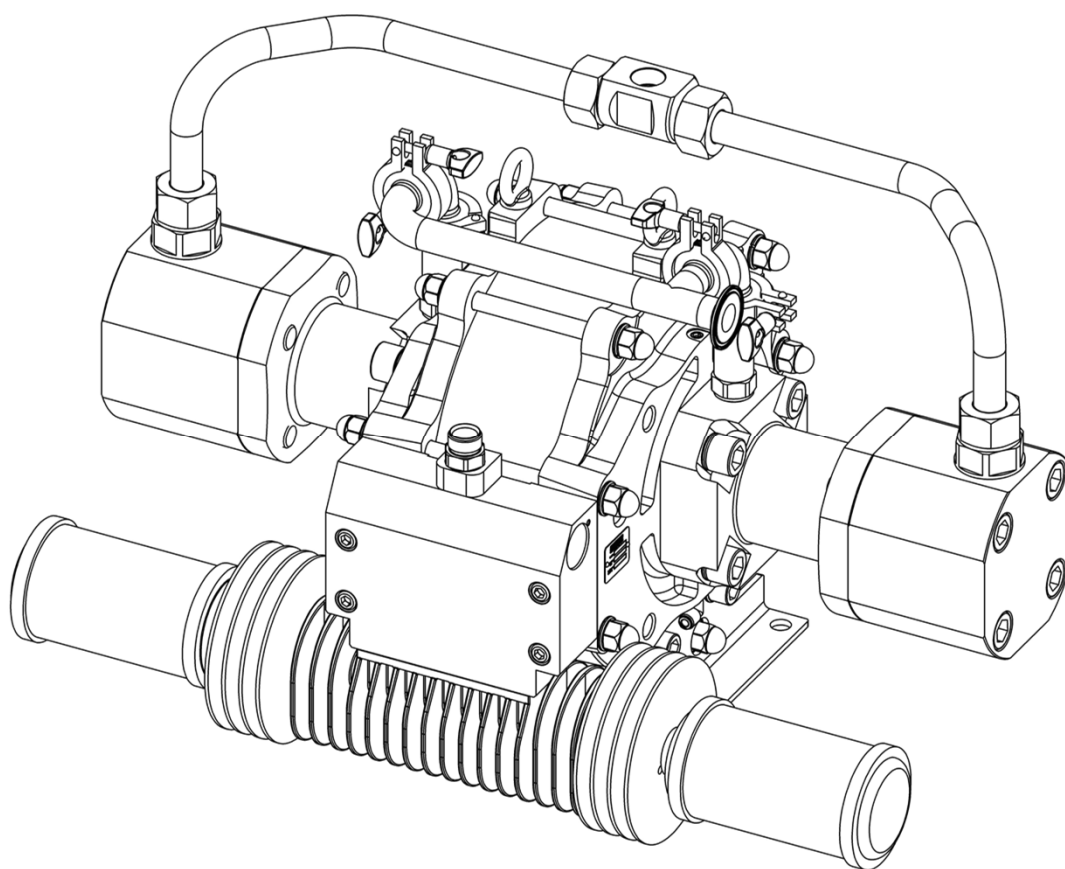




# Maple 15/25 Pump

- Models 104266-HE & 104266-PE



## **IMPORTANT! DO NOT DESTROY**

It is the Customer's responsibility to have all operators and service personnel read and understand this manual.

Contact your local Carlisle Fluid Technologies representative for additional copies of this manual.

**READ ALL INSTRUCTIONS BEFORE OPERATING THIS PRODUCT**

<b>Product Description / Object of Declaration:</b>	<b>Pumps - Maple, DVP, 104009, 104010/LS, 104016, 104027, 104032, 104040/1/2, 104077, 104020, 104023, 104025, 104028/9, 106933, 104205, 104149-52, 104207-15, 104147, 104265/66/67.</b>	<b>EN</b>
<b>This Product is designed for use with:</b>	Solvent and Water based materials	
<b>Suitable for use in hazardous area:</b>	Zone 1	
<b>Protection Level:</b>	Ex h IIB T4 Gb X	
<b>Notified body details and role:</b>	Element Materials Technology (0891) Lodging of Technical file	
<b>This Declaration of conformity / incorporation is issued under the sole responsibility of the manufacturer:</b>	Carlisle Fluid Technologies UK Ltd, Ringwood Road, Bournemouth, BH11 9LH. UK	
<b>Representative authorised to compile the technical file</b>	Sales and Marketing Director. CFT UK Ltd 1 Avenue de Lattre de Tassigny 94736 Nogent, Cedex. France	

## EU Declaration of Conformity



**This Declaration of conformity / incorporation is issued under the sole responsibility of the manufacturer:**

Machinery Directive 2006/42/EC

ATEX Directive 2014/34/EU

by complying with the following statutory documents and harmonized standards:

EN ISO 12100:2010 Safety of Machinery - General Principles for Design

EN 12621:+A1:2010 Machinery for the supply and circulation of coating materials under pressure - Safety requirements

EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts

EN ISO 80079-36:2016 Explosive Atmospheres- Part 36: Non Electrical equipment for explosive atmospheres- Basic methods and requirements.

EN ISO 80079-37:2016 Explosive Atmospheres- Part 37: Non Electrical equipment for explosive atmospheres - protection by methods "c", "b" and "k".

Providing all conditions of safe use / installation stated within the product manuals have been complied with and also installed in accordance with any applicable local codes of practice.

Signed for and on behalf of Carlisle Fluid Technologies UK Ltd:

F. A. Sutter

Executive President: Engineering and Operations, Scottsdale, AZ, 85254.  
USA

5-5-21

<b>Product Description / Object of Declaration:</b>	<b>Pumps - Maple, DVP, 104009, 104010/LS, 104016, 104027, 104032, 104040/1/2, 104077, 104020, 104023, 104025, 104028/9, 106933, 104205, 104149-52, 104207-15, 104147, 104265/66/67.</b>	<b>EN</b>
<b>This Product is designed for use with:</b>	Solvent and Water based materials	
<b>Suitable for use in hazardous area:</b>	Zone 1	
<b>Protection Level:</b>	Ex h IIB T4 Gb X	
<b>Notified body details and role:</b>	Element Materials Technology (0891) Lodging of Technical file	
<b>This Declaration of conformity/incorporation is issued under the sole responsibility of the manufacturer:</b>	Carlisle Fluid Technologies UK Ltd, Ringwood Road, Bournemouth, BH11 9LH. UK	

## UKCA Declaration of Conformity

**UK  
CA**



**This Declaration of conformity/incorporation is issued under the sole responsibility of the manufacturer:**

Supply of Machinery (Safety) Regulations 2008

Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016 by complying with the following statutory documents and harmonised standards:

BS EN ISO 12100:2010 Safety of Machinery - General Principles for Design

BS EN 12621:+A1:2010 Machinery for the supply and circulation of coating materials under pressure - Safety requirements

BS EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts

BS EN ISO 80079-36:2016 Explosive Atmospheres- Part 36: Non Electrical equipment for explosive atmospheres- Basic methods and requirements.

BS EN ISO 80079-37:2016 Explosive Atmospheres- Part 37: Non Electrical equipment for explosive atmospheres - protection by methods "c", "b" and "k".



Providing all conditions of safe use/installation stated within the product manuals have been complied with and also installed in accordance with any applicable local codes of practice.

Signed for and on behalf of  
Carlisle Fluid Technologies UK  
Ltd:

F. A. Sutter

5-5-21

Executive President: Engineering and  
Operations, Scottsdale, AZ, 85254. USA

 <b>WARNING</b>	 <b>CAUTION</b>	<b>NOTE</b>
Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.	Hazards or unsafe practices which could result in minor personal injury, product or property damage	Important installation, operation or maintenance information.

 **WARNING**

Read the following warnings before using this equipment.



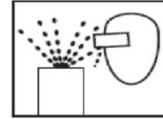
**READ THE MANUAL.** Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



**AUTOMATIC EQUIPMENT.** Automatic equipment may start suddenly without warning.



**WEAR SAFETY GLASSES.** Failure to wear safety glasses with side shields could result in serious eye injury or blindness.



**PROJECTILE HAZARD.** You may be injured by venting liquids or gases that are released under pressure, or flying debris.



**DE-ENERGIZE, DE-PRESSURISE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE.** Failure to de-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.



**KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY.**



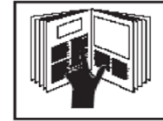
**NOISE LEVELS.** The A-weighted sound level of pumping and spray equipment may exceed 85 dB(A) depending on equipment settings. Actual noise levels are available on request. It is recommended that ear protection is worn at all times while equipment is in use.



**PRESSURE RELIEF PROCEDURE.** Always follow the pressure relief procedure in the equipment instruction manual.



**INSPECT THE EQUIPMENT DAILY.** Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.



**OPERATOR TRAINING.** All personnel must be trained before operating finishing equipment.



**EQUIPMENT MISUSE HAZARD.** Equipment misuse can cause the equipment to rupture, malfunction or start unexpectedly and result in serious injury.



**PACEMAKER WARNING.** You are in the presence of magnetic fields which may interfere with the operation of certain pacemakers.



**HIGH PRESSURE CONSIDERATION.** High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the gun, hose leaks or ruptured components can inject fluid into your body and cause extremely serious injury.



**KEEP EQUIPMENT GUARDS IN PLACE.** Do not operate the equipment if the safety devices have been removed.



**STATIC CHARGE.** Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.



**NEVER MODIFY THE EQUIPMENT.** Do not modify the equipment unless the manufacturer provides written approval.



**PROP 65 WARNING.** WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.



**PINCH POINT HAZARD.** Moving parts can crush and cut. Pinch points are any areas where there are moving parts.

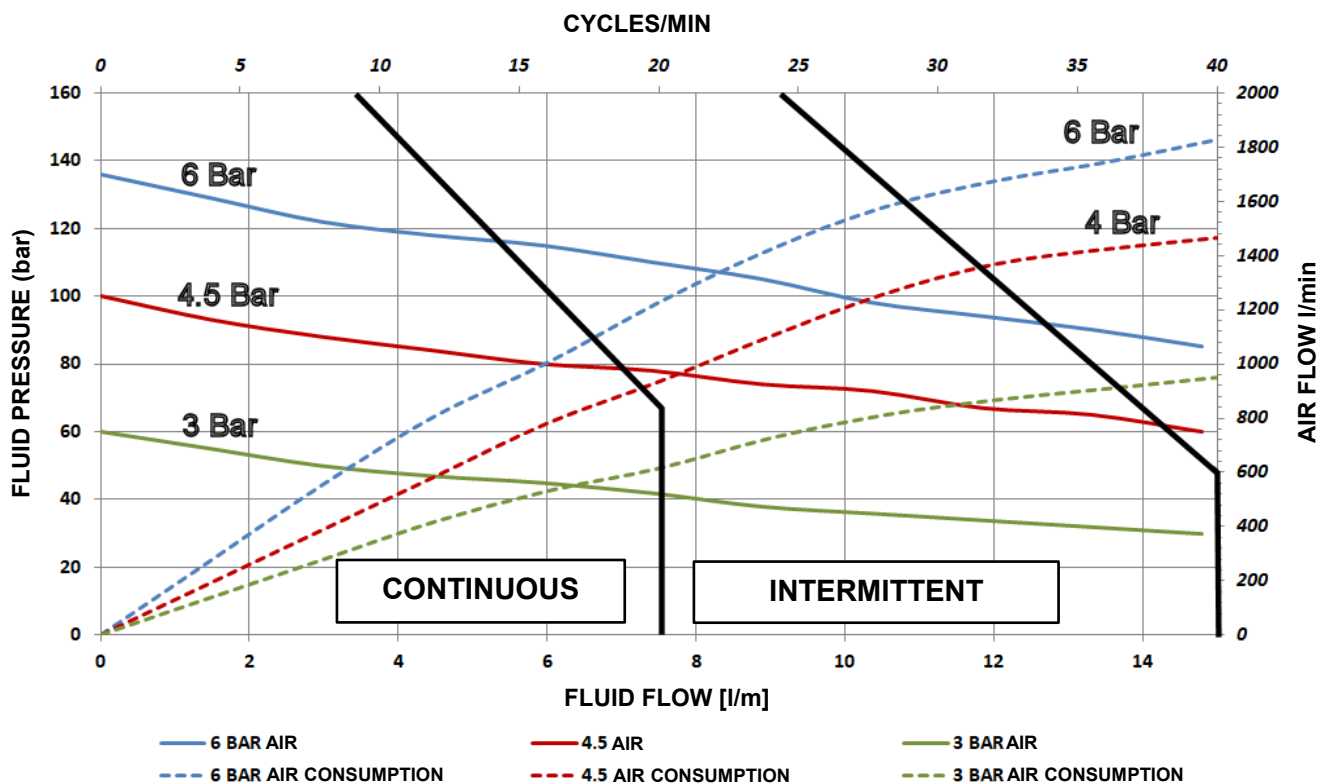
**IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT.**

## Specification

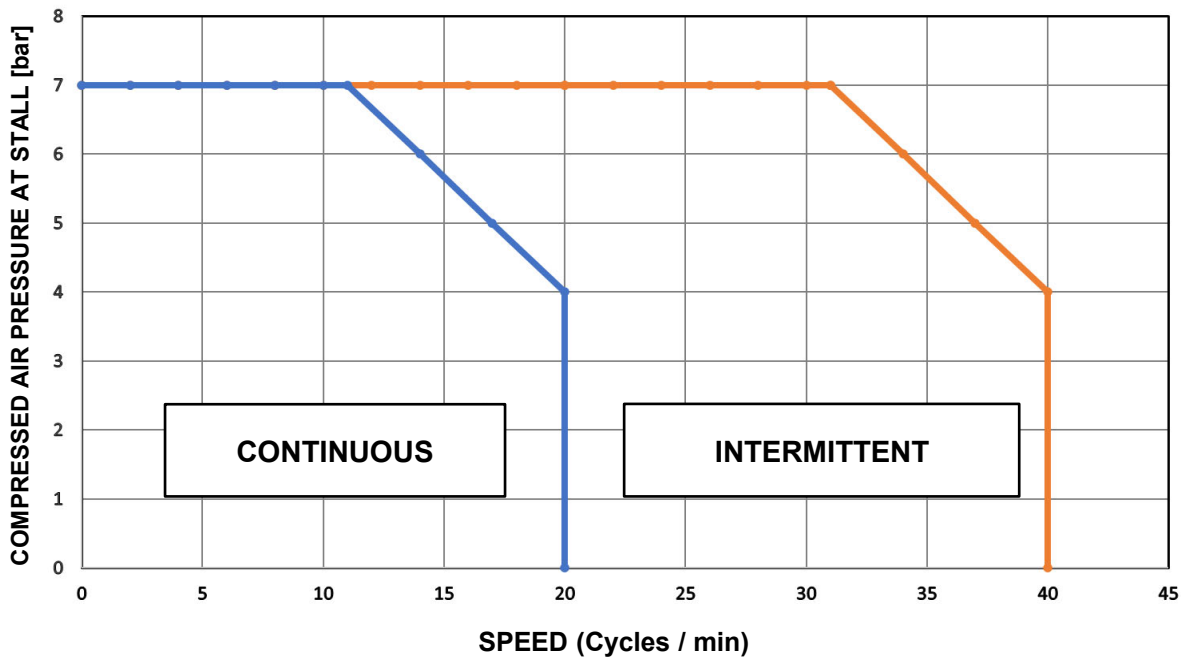
Ratio:	25:1
Maximum air inlet pressure:	7 bar [101.5 psi]
Maximum fluid pressure:	175 bar [2537.5 psi]
Nominal flow volume / cycle:	0.375 l/m [0.10 US gal/m]
Output @ 60 cycles / min:	22.5 l/m [6 US gal/m]
Maximum recommended continuous cycle rate [cycles/min]:	See Graph - Page 6
Maximum recommended intermittent cycle rate [cycles / min]:	See Graph - Page 6
Fluid inlet connection:	1" Sanitary
Fluid outlet connection:	3/4" NPT Female
Compressed Air Inlet	3/4" BSPP
Air volume / cycle @ 3.1 bar/45psi:	37.8 l/m [1.33 SCFM]
Air volume / cycle @ 6.2 bar/90psi:	73.2 l/m [2.59 SCFM]
Air consumption @ 15 cycles/min and 6.2 bar [90 psi] air inlet pressure:	1000 l/m [35.3 CFM]
Air consumption @ 30 cycles/min and 6.2 bar [90 psi] air inlet pressure:	1700 l/m [60 CFM]
Max. Pump Fluid Inlet Pressure	2 bar [30 psi]
Air Quality ISO 8573.1 Class 3.4.2	Dirt: 5 microns Water: +4°C @ 7bar Oil: 0.1mg/m <sup>3</sup>
Weight:	116 kg / 255.2 lbs

# Specification

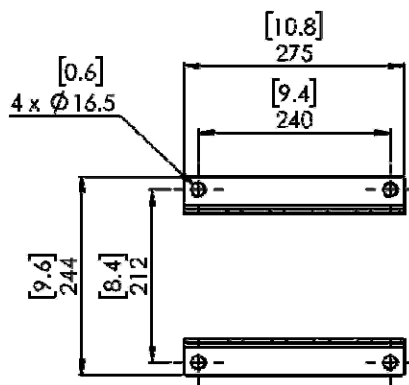
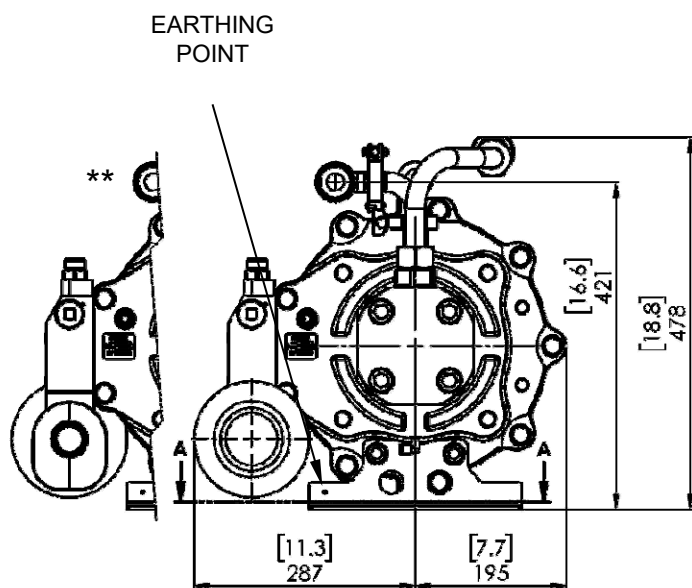
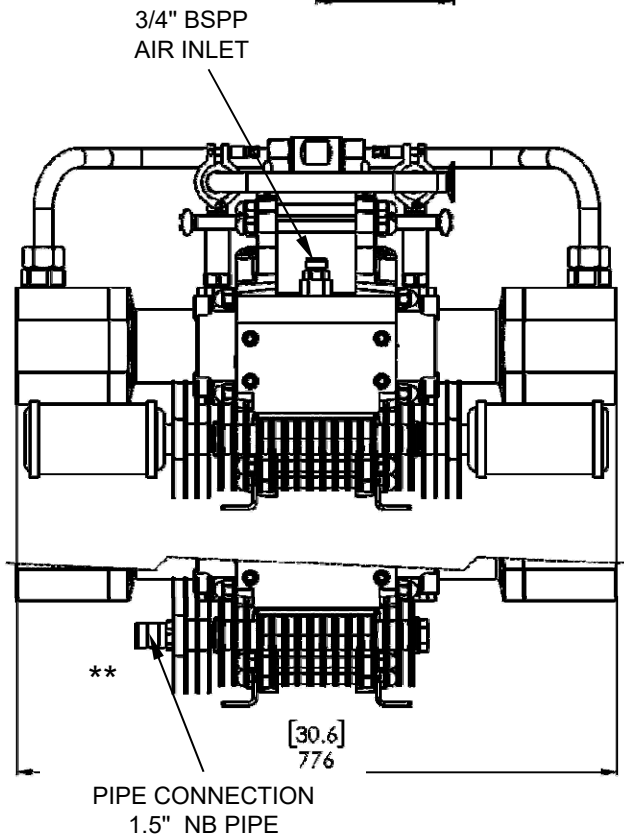
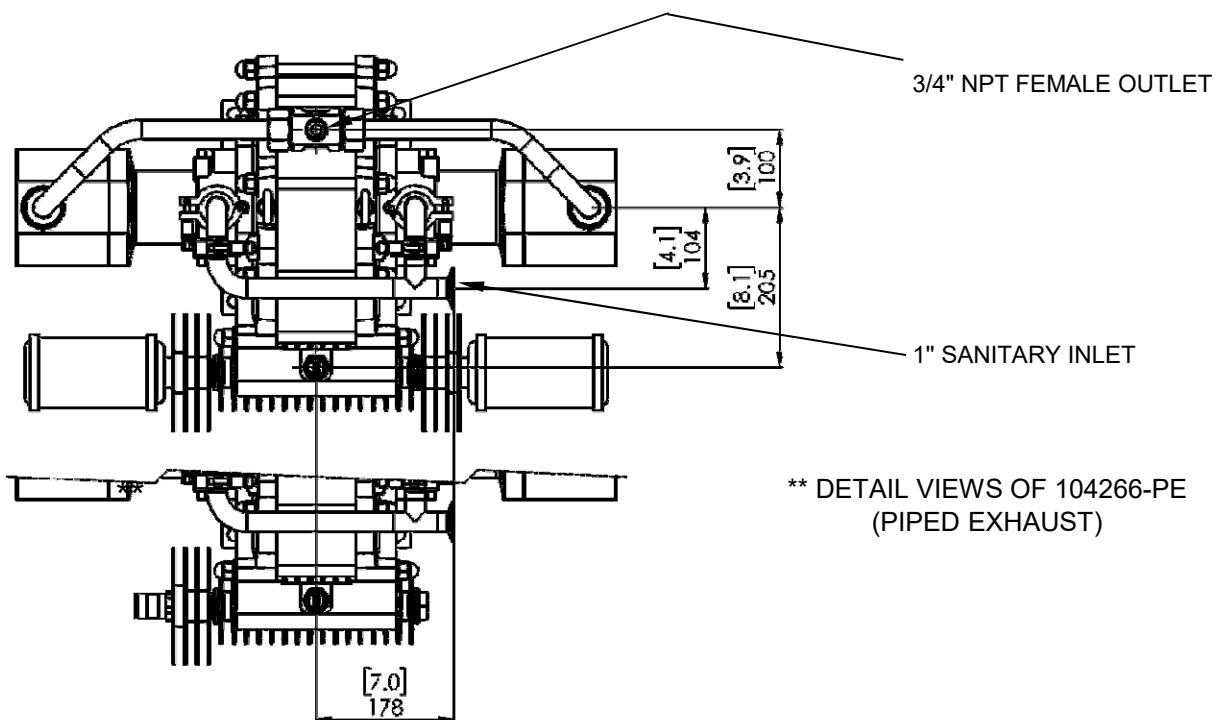
## PERFORMANCE CHART



## RECOMMENDED OPERATING ENVELOPE - MAPLE 15/25



# Dimensions and Mounting Details



MOUNTING LOCATIONS  
SECTION A-A

## Installation

Mount the pump securely and position the pump at a convenient height (below the lid height of the paint container), to allow for maintenance, visual observation, and periodic inspection.

The foot mount bracket is included with all pumps.

The foot Mounting bracket must be connected to a suitable earth ground to ensure that there is no possibility of static build up.

Ground / earth the pump; check resistance is less than  $1\Omega$  to achieve true earth ground.

Attach suitable flexible hoses to the inlet and outlet connections.

- Suction  $\varnothing 24 - 28$  I.D. [-1 to 10 bar working pressure]
- Outlet  $\varnothing 15-22$  I.D. [175 bar working pressure]

Connect a suitable 3/8" NB air hose and 1/2" Pressure Filter Regulator to the air motor.

Select suitable compressed air filter/regulator to required pump performance (see specifications)

Select suitable compressed air feed hose based on air flow required typically:

1/2" NB up to 7.5 l/min

3/4" NB greater than 7.5 l/min

No additional air lubrication is required as piston ring lubricant is applied during assembly or repair.

If an air lubricator is used then, this must be maintained.



## Installation

This product should be flushed with a suitable compatible solvent prior to use.

Check all inlet & outlet fittings for tightness

Set the pump speed to a slow cycle rate and prime the pump to remove any air before increasing pressure.

Inspect for any air or fluid leaks.

Set the pump cycle rate to achieve the required paint volume and then adjust the system back pressure regulator and pump air pressure to achieve the desired system fluid pressure.

A Back Pressure Regulator can be mounted in the paint system return line.

The return line 'back pressure' regulator responds to the changes in system fluid flow demand, (due to variable paint usage) by dynamically adjusting the paint flow rate returning to the system paint tank, thus maintaining the set pressure.

If an air blow out system is used, never exceed 2 bar [29 psi] on the inlet of the pump.

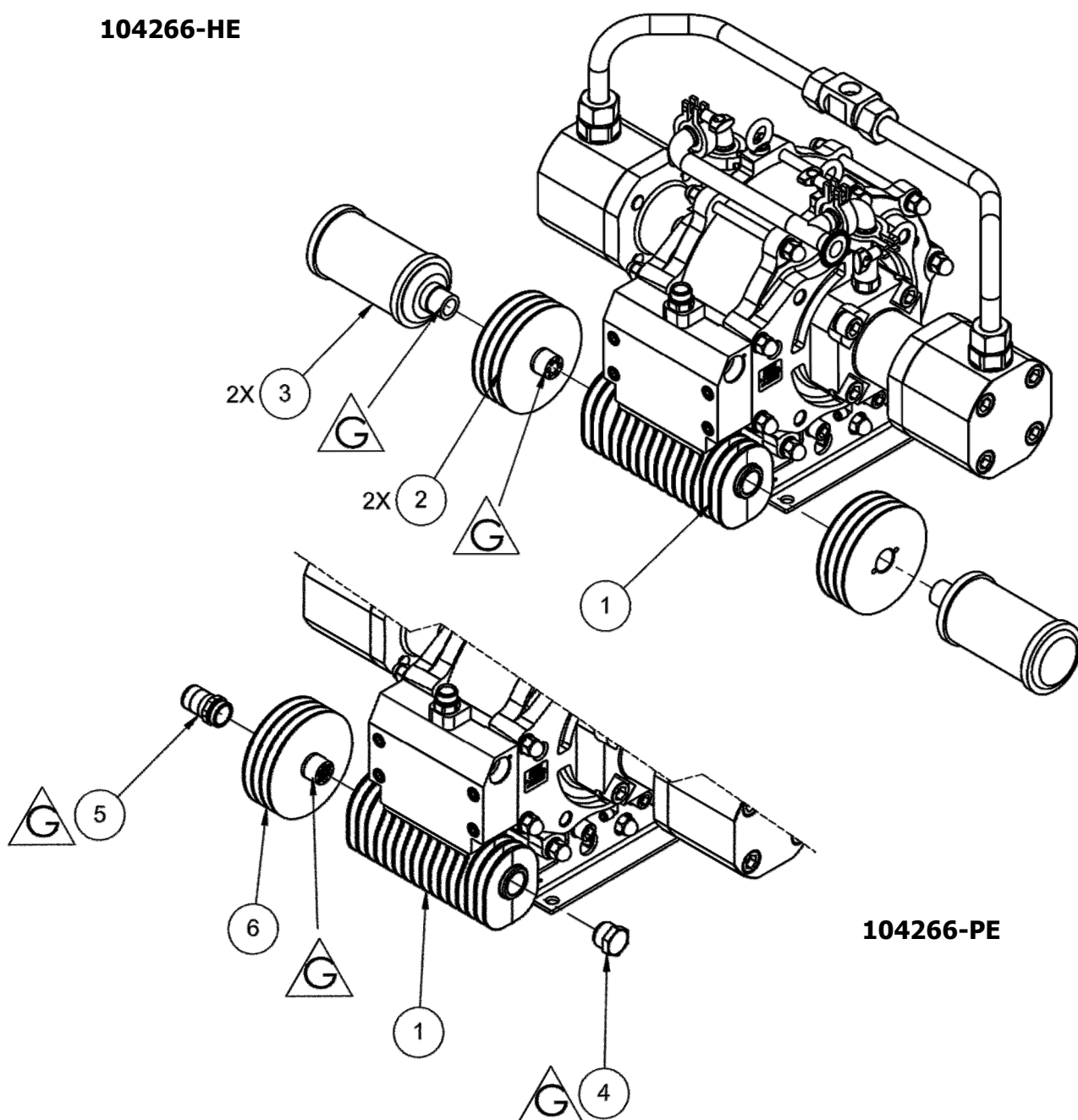
Do not exceed 5m to the exhaust header pipework.

**NOTES**

## Pump Assembly

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS
1	-	MAPLE 15/25 PUMP	1	104266-PE, HE
2	195849	HEAT EXCHANGER EXTENSION	2	104266-HE
3	192821	HEAVY DUTY MUFFLERS	2	104266-HE
4	192803	1" MANIFOLD PLUG	1	104266-PE
5	192820	EXHAUST TUBE ADAPTER [32mm NB HOSE]	1	104266-PE
6	195850	HEAT EXCHANGER EXTENSION	1	104266-PE

### 104266-HE



### 104266-PE

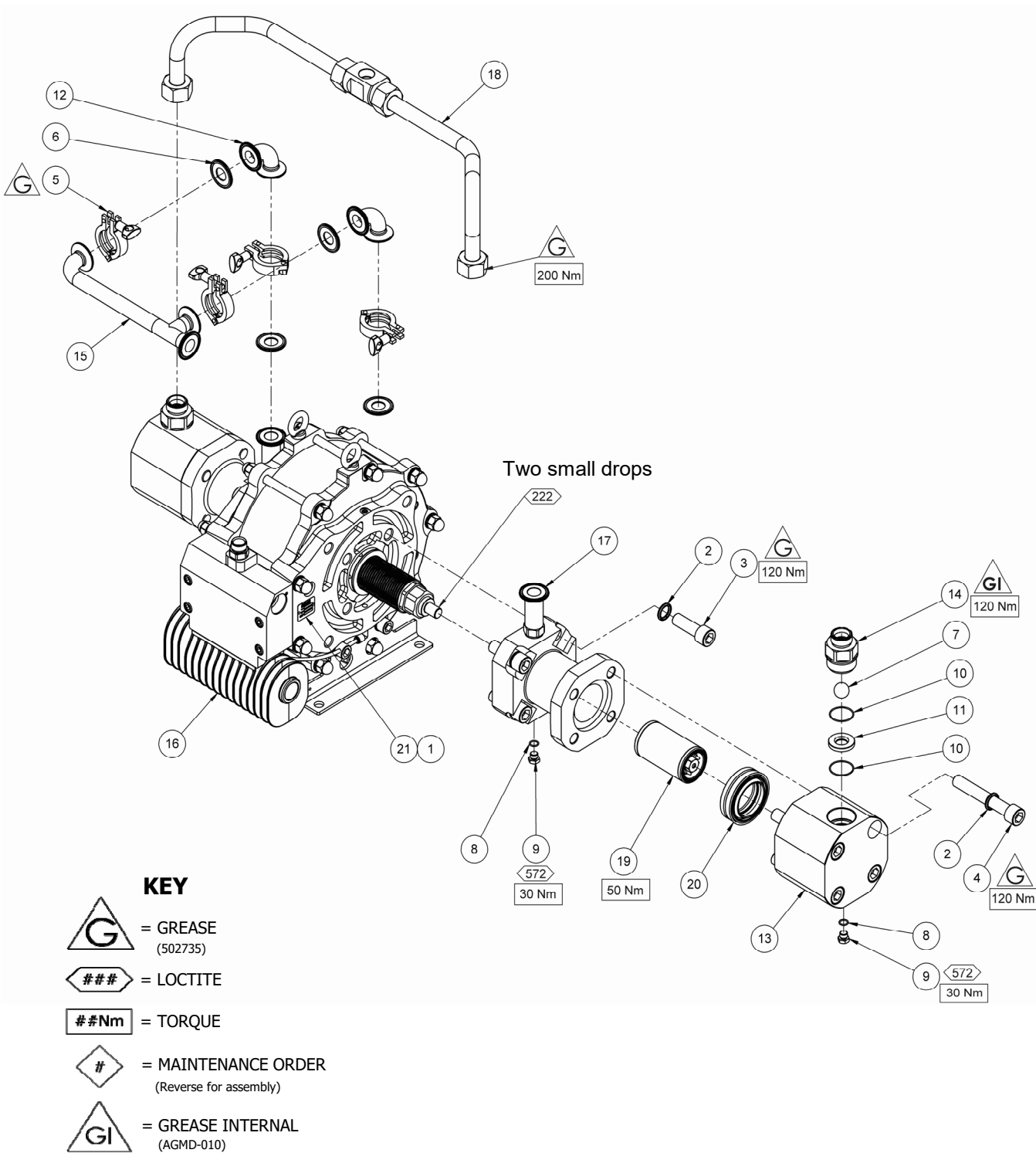
## Pump Assembly

ITEM	PART NO.	DESCRIPTION	QTY	KIT No.
1	-	RIVET	2	
2	177144	SPRING WASHER	16	8
3	177146	SOCKET HEAD CAP SCREW	8	8
4	177149	SOCKET HEAD CAP SCREW	8	8
5	192009	SANITARY CLAMP	4	13
6	192206	SANITARY GASKET	4	1 2 13
7	192382	BALL	2	1 2
8	192505	O-RING	4	1 2
9	192551	HEXAGON PLUG	4	2
10	192712	O-RING	4	1
11	192833	SEAT	2	2
12	194109	1" SANITARY ELBOW	2	13
13	195785	OUTLET CYLINDER	2	
14	195786	OUTLET FITTING	2	
15	195791	INLET MANIFOLD	1	13
16	-	AIR MOTOR ASSEMBLY	1	195816-K
17	195818	INLET CYLINDER	2	
18	195819	OUTLET MANIFOLD	1	
19	195820	PISTON ASSEMBLY	2	
20	195821	FLUID SEAL ASSEMBLY	2	1 6
21	-	SERIAL PLATE	1	

PLEASE NOTE,  
ALL COMPONENTS WITH A KIT NUMBER ARE ONLY AVAILABLE FOR PURCHASE AS PART OF A KIT.

SEE KITS / CONTENTS, PAGES 21 - 24

# Pump Assembly








## Parts List 195816-K - Air Motor Assembly

ITEM	PART NO.	DESCRIPTION	QTY	KIT No.
1	0115-010037	POPPET ASSEMBLY	2	10
2	161994	O-RING	4	3 4
3	162738	O-RING	2	3 4
4	162896	O-RING	2	4
5	165100	SPRING WASHER	4	5 15
6	165123	SPRING WASHER	6	5
7	165981	DOME NUT	18	5 12
8	165982	SPRING WASHER	18	5 12
9	177142	SOCKET HEAD CAP SCREW	4	5 15
10	177143	SOCKET HEAD CAP SCREW	4	5
11	192799	VENT PLUG	2	
12	192815	PUSH IN ELBOW	2	4
13	193240	AIR EXHAUST MANIFOLD	1	
14	195766	AIR CYLINDER	1	
15	195769	KNIFED BELLOWS	2	2 7
16	-	END PLATE MACHINING	1	195816-K
17	-	END PLATE MACHINING	1	195816-K
18	195772	ROD BEARING	2	3 4
19	195773	BELLOWS SPACER	2	14
20	195774	CYLINDER STUD	7	12
21	195775	CYLINDER STUD - LONG	2	12
22	195776	PUMP BRACKET	2	15
23	195789	BELLOWS NUT	2	14
24	195790	EYE BOLT	2	5
25	-	MAIN VALVE ASSEMBLY	1	195817-K
26	195823	AIR MOTOR PISTON ASSY	1	
27	195846	SEAL	2	3 4
28	195854	LEAK DETECTION HOSE	1	4

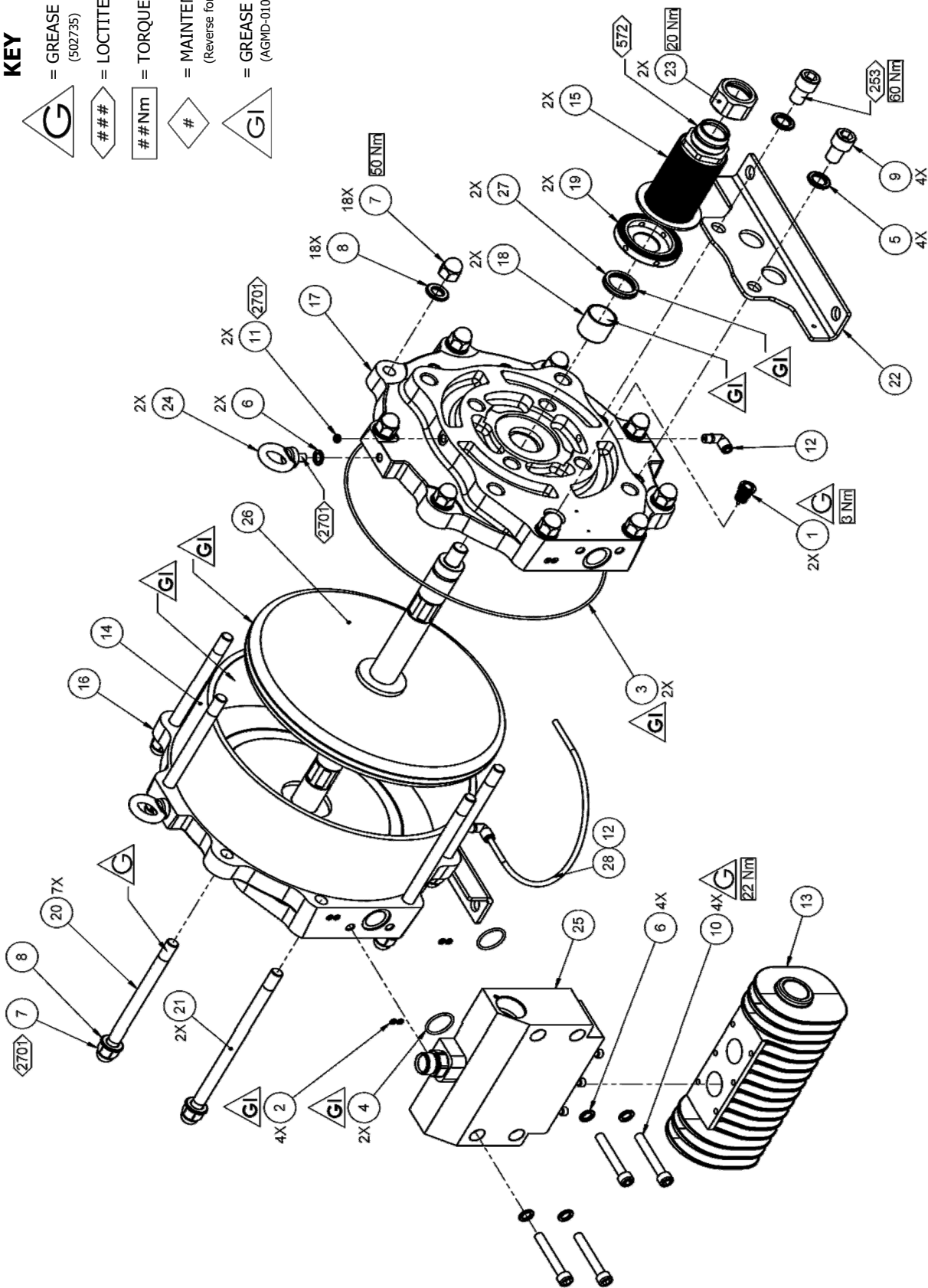
PLEASE NOTE,  
ALL COMPONENTS WITH A KIT NUMBER ARE ONLY AVAILABLE FOR PURCHASE AS PART OF A KIT.

SEE KITS / CONTENTS, PAGES 21 - 24

**KEY**

-  = GREASE (502735)
-  = LOCTITE
-  = TORQUE
-  = MAINTENANCE ORDER (Reverse for assembly)
-  = GREASE INTERNAL (AGMD-010)

ITEM 27  
DETAIL

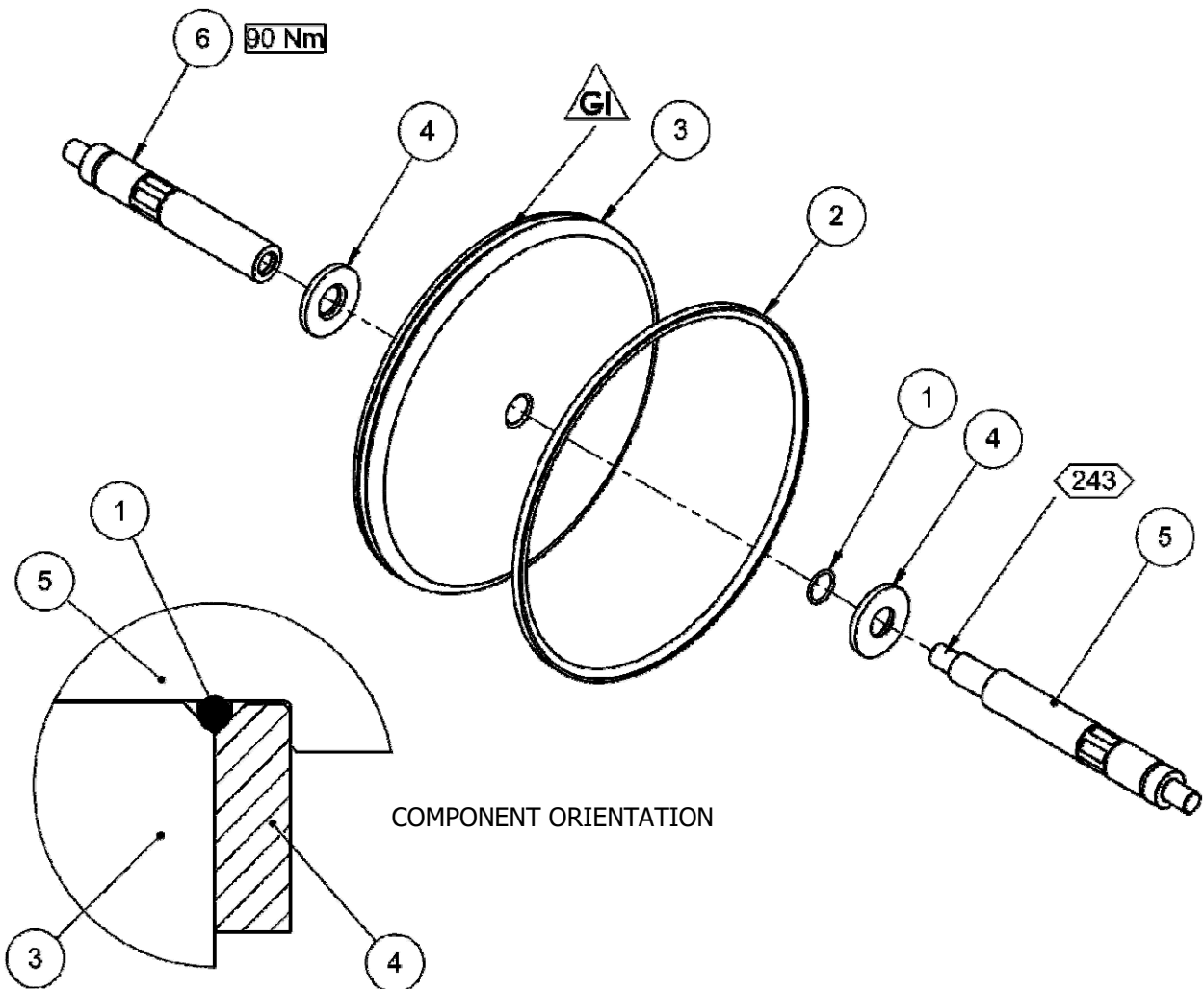


## 195823-K - Air Motor Piston Assembly

ITEM	PART NO.	DESCRIPTION	QTY	KIT No.
1	161451	O-RING	1	3 4
2	162739	AIR MOTOR PISTON SEAL	1	3 4
3	-	PISTON	1	
4	-	WASHER	2	
3	-	PISTON SHAFT	1	
4	-	PISTON SHAFT	1	

PLEASE NOTE,  
ALL COMPONENTS WITH A KIT NUMBER ARE ONLY AVAILABLE FOR PURCHASE AS PART OF A KIT.

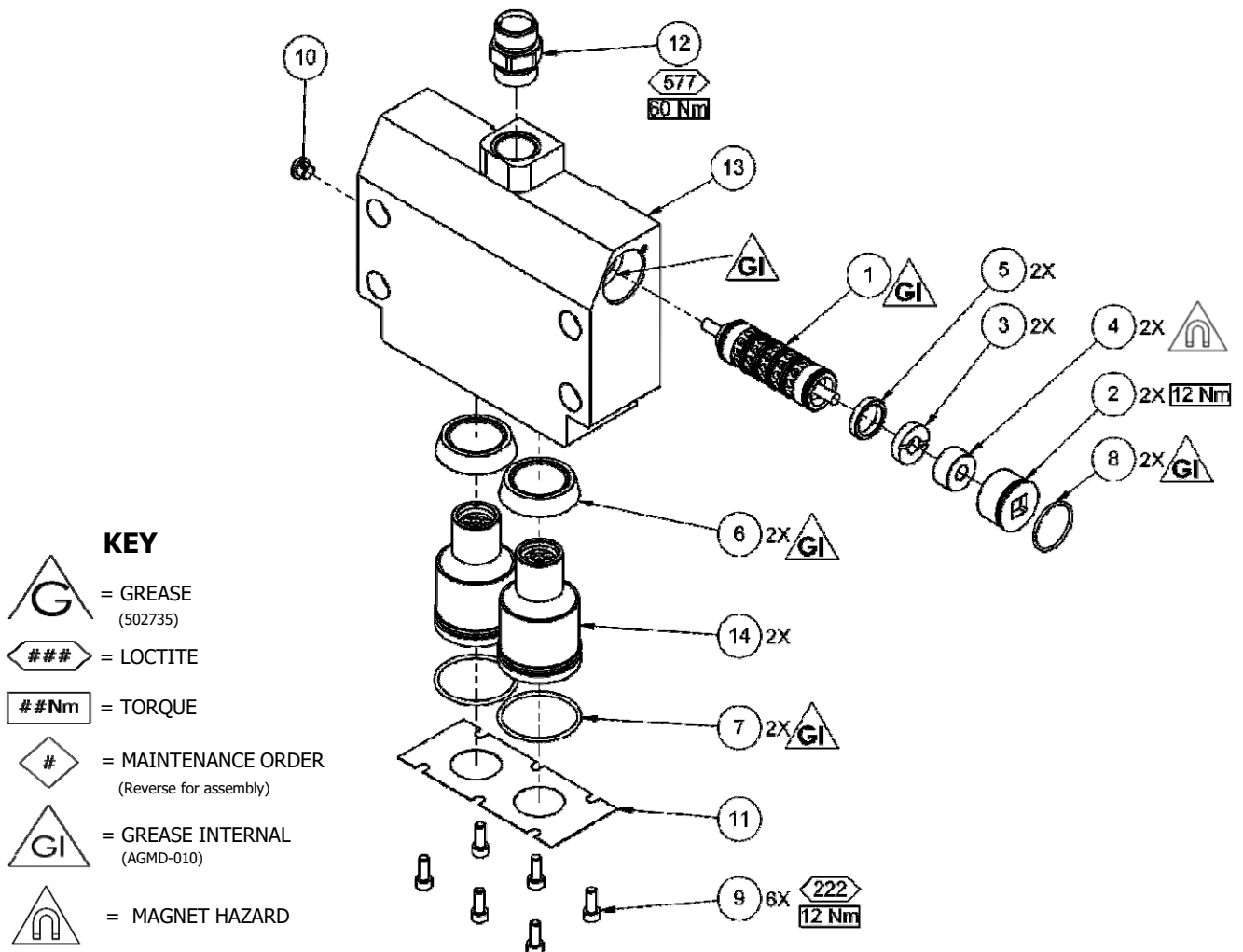
SEE KITS / CONTENTS, PAGES 21 - 24





## 195817-K - Air Valve Assembly

ITEM	PART NO.	DESCRIPTION	QTY	KIT No.
1	0115-010424	SPOOL AND SLEEVE ASSEMBLY	1	9
2	0115-010425	VALVE BLOCK END CAP	2	9
3	0115-010427	BUMPER	2	3 9
4	0115-010428	MAGNET	2	9
5	0115-010431	SPACER	2	3
6	0115-010463	QEV PISTON	2	3 9 11
7	162719	O-RING	2	3 4 9
8	162767	O-RING	2	3 4 9
9	163951	SOCKET HEAD CAP SCREW	6	3 4 5
10	192651	PLUG	1	9
11	193244	GASKET	1	3 4 9
12	195779	NIPPLE	1	
13	-	VALVE BLOCK	1	195817-K
14	195835	QEV CARTRIDGE	2	

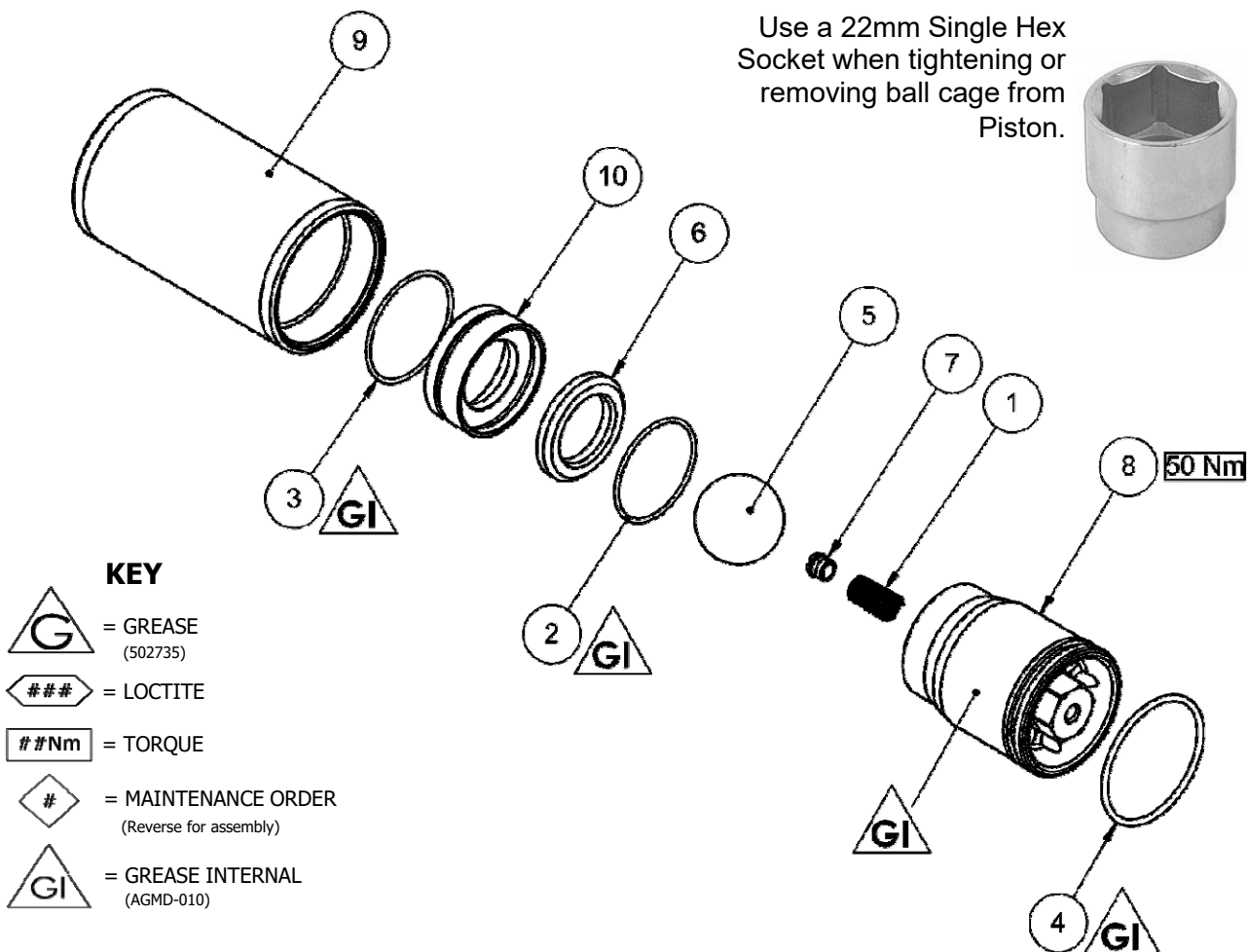


## 195820 - Fluid Piston Assembly

ITEM	PART NO.	DESCRIPTION	QTY	KIT No.
1	160533	PISTON BALL CHECK SPRING	1	1 2
2	162856	O-RING	1	1 2
3	162899	O-RING	1	1 2
4	162900	O-RING	1	1 2
5	171788	BALL	1	2
6	192632	SEAT	1	2
7	193188	INLET SPRING KEEP	1	1 2
8	195795	BALL CAGE	1	2
9	-	FLUID PISTON	1	
10	195797	FLUID PISTON SUPPORT	1	

PLEASE NOTE,  
ALL COMPONENTS WITH A KIT NUMBER ARE ONLY AVAILABLE FOR PURCHASE AS PART OF A KIT.

SEE KITS / CONTENTS, PAGES 21 - 24



## Fault Finding

Symptom	Possible Cause	Remedy
Pump will not 'Prime'	Air getting into the suction hose/manifold	Check seals and hose connections.
	Worn piston seal.	Replace piston seals.
	Ball checks not seating correctly.	Inspect, clean and/or replace balls and seats.
Pump will not run	No air or fluid supply	Check air and fluid supply ball valves and supply hoses.
	Air piston seal worn.	Replace piston seal.
	Pilot valve assemblies inoperable.	Switch/interchange pilot valves to isolate faulty pilot valve and clean/replace.
	Pilot valve assemblies inoperable.	Check clean/replace Air valve.
	QE diaphragm defective.	Check for constant exhaust air when pump is not running. Check/replace QE diaphragms.
	Ball checks not seating correctly.	Inspect, clean and/or replace balls and seats.
Pump runs but has excessive pulsation.	Air getting into fluid line, air supply restricted.	Check seals and hose connections. Check air supply
	Obstructed fluid ball checks.	Remove, clean, and inspect seat, ball, and ball cage. Replace if suspect or worn.

## Fault Finding

Symptom	Possible Cause	Remedy
Pump runs but has excessive pulsation.	Worn air motor piston seals.	Replace air motor piston seal.
	Worn/failed air motor shaft seals.	Disassemble pump as required to replace air motor shaft seals.
	Worn fluid piston seal.	Replace fluid piston seal.
	Air exhaust restricted.	Check QE diaphragms and exhaust outlets.
Paint leaking into detection hose, air bleeding from vent plug	Bellows seal failure	Replace bellows seal
	Air motor shaft seal leaking	Check air motor shaft seal replace as necessary

## Spares Kits for Maple 15/25 Pump

### 1 250844 - FLUID SECTION SEAL KIT

PART NO.	DESCRIPTION	QTY
192206	SANITARY GASKET	4
192505	O-RING - PTFE	4
192712	O-RING - PTFE	4
195821	FLUID PISTON SEAL	2
160533	SPRING	2
193188	INLET SPRING KEEP	2
162856	O-RING	2
162899	O-RING	2
162900	O-RING	2

### 2 250845 - FLUID OVERHAUL KIT

PART NO.	DESCRIPTION	QTY
250844 (1)	FLUID SECTION SEAL KIT	1
192382	BALL	2
192833	SEAT	2
192632	SEAT	2
195769	KNIFED BELLOWS	2
171788	BALL	2
195795	BALL CAGE	2

### 3 250843 - Ø320 AIR MOTOR SEAL KIT

PART NO.	DESCRIPTION	QTY
0115-010427	BUMPER	2
0115-010463	QEV PISTON	2
193244	GASKET	1
0115-010431	SPACER	2
162767	O-RING	2
163951	CAP HEAD SCREW	6
162719	O-RING	2
161994	O-RING	4
162896	O-RING	2
162738	O-RING	2
195772	BEARING	2
195846	SEAL	2
162739	AIR MOTOR PISTON SEAL	1
161451	O-RING	1

## Spares Kits for Maple 15/25 Pump

### 4 250851 - Ø320 AIR MOTOR OVERHAUL KIT

PART NO.	DESCRIPTION	QTY
250852 (5)	AIR MOTOR FIXINGS KIT	1
250853 (9)	AIR MOTOR AIR VALVE CONTROL KIT	1
193244	GASKET	1
0115-010037-K2	POPPET KIT - 1 PUMP	1
162767	O-RING	2
163951	CAP HEAD SCREW	6
162719	O-RING	2
161994	O-RING	4
162896	O-RING	2
162738	O-RING	2
195772	BEARING	2
195846	SEAL	2
192815	ELBOW	2
195854	BELLOWS LEAK DETECTION HOSE	1
162739	GLYDE RING ASSEMBLY	1
161451	O-RING	1

### 5 250852 - Ø320 MAPLE AIR MOTOR FIXINGS KIT

PART NO.	DESCRIPTION	QTY
165100	SPRING WASHER	4
165123	SPRING WASHER	6
165981	DOME NUT	18
165982	SPRING WASHER	18
177142	CAP HEAD SCREW	4
177143	CAP HEAD SCREW	4
163951	CAP HEAD SCREW	6
195790	EYE BOLT	2

### 6 195821-K2 - FLUID PISTON SEAL KIT

PART NO.	DESCRIPTION	QTY
195821	FLUID PISTON SEAL ASSEMBLY	2

### 7 195769-K2 - KNIFED BELLOWS KIT

PART NO.	DESCRIPTION	QTY
195769	KNIFED BELLOWS	2

## Spares Kits for Maple 15/25 Pump

### 8 250854 - FLUID SECTION FIXINGS KIT

PART NO.	DESCRIPTION	QTY
177144	SPRING WASHER	16
177146	SOCKET HEAD CAP SCREW	8
177149	SPRING WASHER	8

### 9 250853 - AIR MOTOR CONTROL VALVE KIT

PART NO.	DESCRIPTION	QTY
0115-010424	SPOOL AND SLEEVE ASSEMBLY	1
0115-010427	BUMPER	2
0115-010463	QEV PISTON	2
162719	O-RING	2
162767	O-RING	2
193244	GASKET	1
0115-010428	MAGNET	2
192651	PLUG	1
0115-010425	VALVE BLOCK END CAP	2

### 10 0115-010037-K2 - POPPET KIT - 1 PUMP

PART NO.	DESCRIPTION	QTY
0115-010037	POPPET ASSEMBLY	2

### 10 0115-010037-K10 - POPPET KIT - 5 PUMP

PART NO.	DESCRIPTION	QTY
0115-010037	POPPET ASSEMBLY	10

### 11 0115-010463-K2 QEV PISTON KIT - 1 PUMP

PART NO.	DESCRIPTION	QTY
0115-010463	QEV PISTON	2
162719	O-RING	2

### 11 0115-010463-K10 QEV PISTON KIT - 5 PUMP

PART NO.	DESCRIPTION	QTY
0115-010463	QEV PISTON	10
162719	O-RING	10

## Spares Kits for Maple 15/25 Pump

### 12 250859 CYLINDER STUD KIT

PART NO.	DESCRIPTION	QTY
195774	CYLINDER STUD	7
195775	CYLINDER STUD - LONG	2
165981	DOME NUT	18
165982	SPRING WASHER	18

### 13 250860 INLET MANIFOLD KIT

PART NO.	DESCRIPTION	QTY
192009	SANITARY CLAMP	4
192206	SANITARY GASKET	4
194109	1" SANITARY ELBOW	2
195791	INLET MANIFOLD	1

### 14 250861 BELLOW FIXING KIT

PART NO.	DESCRIPTION	QTY
195773	SPACER	2
195789	BELLOWS NUT	2

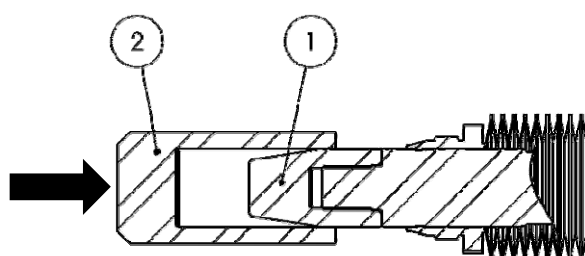
### 15 250862 BRACKET FIXING KIT

PART NO.	DESCRIPTION	QTY
195776	PUMP BRACKET	2
165100	SPRING WASHER	4
177142	SOCKET HEAD CAP SCREW	4

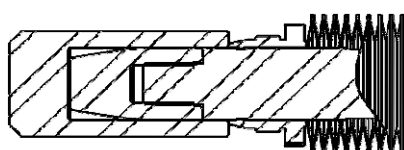


## Bellows Replacement

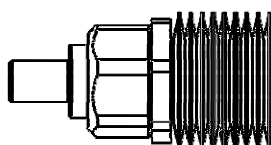
ITEM	PART NO.	DESCRIPTION	QTY
1	502957	BELLOWS ASSEMBLY SPIGOT	1
2	502958	BELLOWS POSITIONING TOOL	1



Screw Item No. 1 (assembly spigot) onto the piston shaft



Using Item No. 2, push bellows over spigot until located in groove.



Thread nut onto bellows ensuring the thread starts squarely.

Hold the bellows with a 50mm A/F spanner and tighten the nut with a 46mm A/F spanner/socket to 30Nm.

## ACCESSORIES

ITEM	PART NO.	REMARKS
<b>193275</b>	1" SANITARY - 3/4" NPT (f) ADAPTER	
<b>194281</b>	1" SANITARY - 1" NPT (f) ADAPTER	
<b>502959</b>	SEAL INSERTION TOOL	FOR SHAFT SEAL (27)
<b>502957</b>	BELLOWS ASSEMBLY SPIGOT	
<b>502958</b>	BELLOWS POSITIONING TOOL	
<b>502960</b>	FLUID PISTON REMOVAL TOOL	
<b>AGMD-010</b>	KLUBER ISOFLEX TOPAS NB 52 GREASE	50ml TUBE

**NOTES**

## WARRANTY POLICY

This product is covered by Carlisle Fluid Technologies' materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. Failure to reasonably follow any maintenance guidance provided, may invalidate any warranty.

For specific warranty information please contact Carlisle Fluid Technologies.

For technical assistance or to locate an authorised distributor, contact one of our international sales and customer support locations below.

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