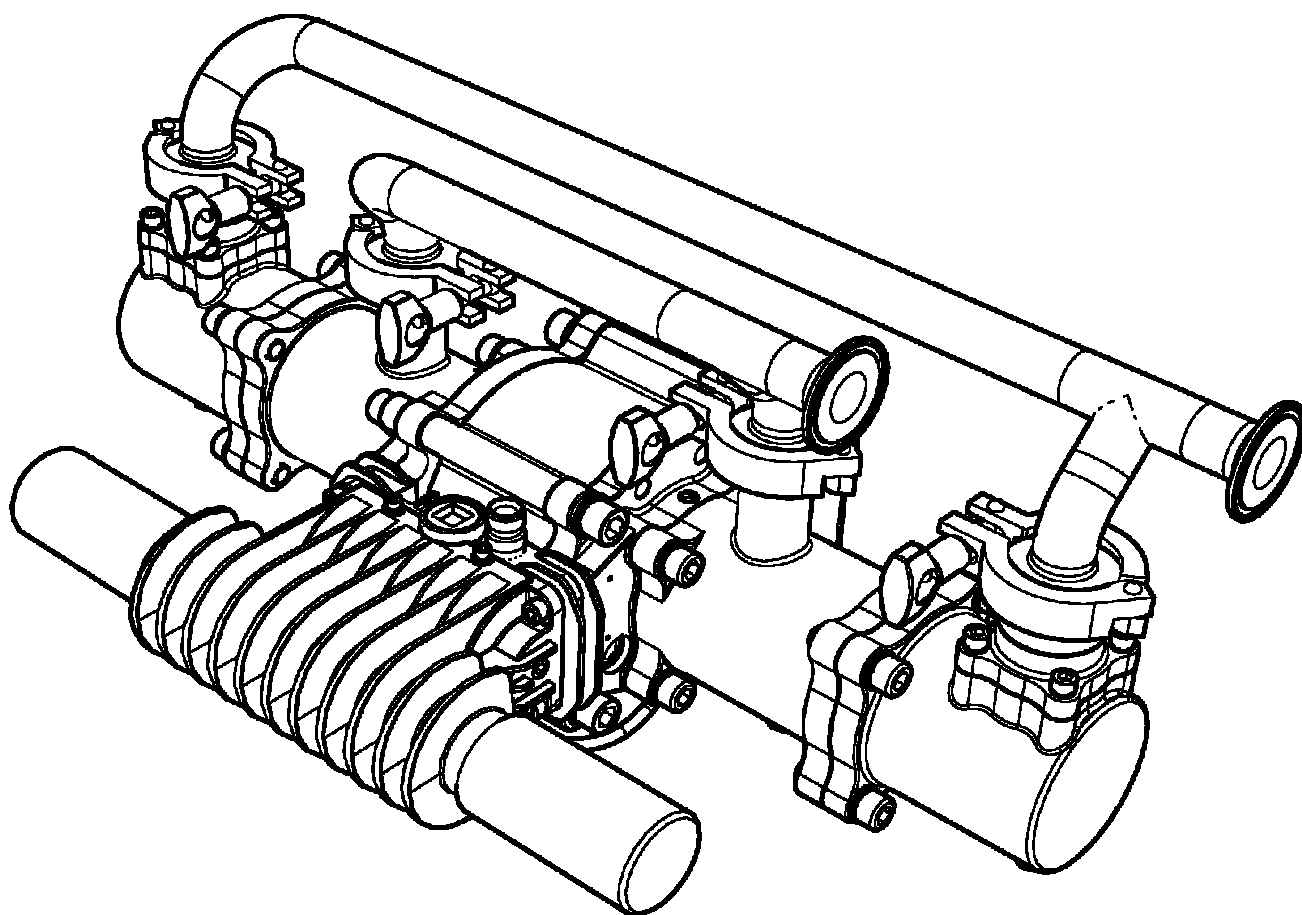


## Maple 15/3 Pump



## ADDITIONAL RESOURCES

For additional information or copies of your service manual, please visit us online at:

[binks.com/en/library](https://binks.com/en/library)

Obey local or municipal regulations for product recycling and disposal.

|                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------|
| <b>IMPORTANT! DO NOT DESTROY</b>                                                                                 |
| It is the Customer's responsibility to have all operators and service personnel read and understand this manual. |
| Contact your local Binks representative for additional copies of this manual.                                    |
| <b>READ ALL INSTRUCTIONS BEFORE OPERATING THIS PRODUCT</b>                                                       |

|                                                                                                                    |                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description / Object of Declaration:</b>                                                                | <b>Pumps - Maple, DVP, 104009, 104010/LS, 104016, 104027, 104032, 104040/1/2, 104077, 104020-M2, 104023, 104025, 104028/9, 106933, 104205, 104149-52, 104207-15, 104147, 104265/66/67.</b> |
| <b>This Product is designed for use with:</b>                                                                      | <b>Solvent &amp; Waterbased Materials</b>                                                                                                                                                  |
| <b>Suitable for use in hazardous area:</b>                                                                         | <b>Zone 1/Zone 2</b>                                                                                                                                                                       |
| <b>Protection Level:</b>                                                                                           | <b>Ex h IIB T4 Gb X</b>                                                                                                                                                                    |
| <b>Notified body details and role:</b>                                                                             | <b>Element Materials Technology Rotterdam B.V. (2812)</b>                                                                                                                                  |
|                                                                                                                    | <b>Lodging of ATEX Technical file</b>                                                                                                                                                      |
| <b>This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:</b> | <b>Binks U.K. Limited,<br/>Ringwood Road,<br/>Bournemouth, BH11 9LH. UK</b>                                                                                                                |
| <b>Representative authorised to compile the technical file</b>                                                     | <b>President @. Binks France SAS<br/>5 Place Pierre Semard, 94130 Nogent sur Marne , Paris, France</b>                                                                                     |

## 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 harmonised standards:

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

EN 12621:2006+2010 Machinery for the supply and circulation of coating materials under pressure - Safety requirements

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".

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

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 Binks  
U.K. Ltd:

Document Part No.  
. EN

F. A. Sutter

22/04/25

Executive President: Engineering and  
Operations, Shoreview, MN, 55126. USA

|                                                                                                                    |                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description / Object of Declaration:</b>                                                                | <b>Pumps - Maple, DVP, 104009, 104010/LS, 104016, 104027, 104032, 104040/1/2, 104077, 104020-M2, 104023, 104025, 104028/9, 106933, 104205, 104149-52, 104207-15, 104147, 104265/66/67.</b> |
| <b>This Product is designed for use with:</b>                                                                      | <b>Solvent &amp; Waterbased Materials</b>                                                                                                                                                  |
| <b>Suitable for use in hazardous area:</b>                                                                         | <b>Zone 1/Zone 2</b>                                                                                                                                                                       |
| <b>Protection Level:</b>                                                                                           | <b>Ex h IIB T4 Gb X</b>                                                                                                                                                                    |
| <b>Approved body details and role:</b>                                                                             | <b>Element Materials Technology Warwick Ltd. UK. (0891)</b>                                                                                                                                |
|                                                                                                                    | <b>Lodging of UKEX Technical file</b>                                                                                                                                                      |
| <b>This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:</b> | <b>Binks U.K. Limited,<br/>Ringwood Road,<br/>Bournemouth, BH11 9LH. UK</b>                                                                                                                |
|                                                                                                                    |                                                                                                                                                                                            |

## UKCA Declaration of Conformity



**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 designated standards:  
BS EN ISO 12100:2010 Safety of Machinery - General Principles for Design  
BS EN 12621:2006+2010 Machinery for the supply and circulation of coating materials under pressure - Safety requirements  
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".  
BS EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts

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 Binks  
U.K. Ltd:

Document Part No.  
. EN

F. A. Sutter

22/04/25

Executive President: Engineering and  
Operations, Shoreview, MN, 55126. 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.



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



**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.



**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.



**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.



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



**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.



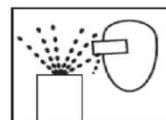
**STATIC CHARGE.** Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion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



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



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



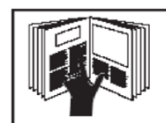
**PROJECTILE HAZARD.** You may be injured by venting liquids or gases that are released under pressure, or flying debris.



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



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



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



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



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



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



**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.**

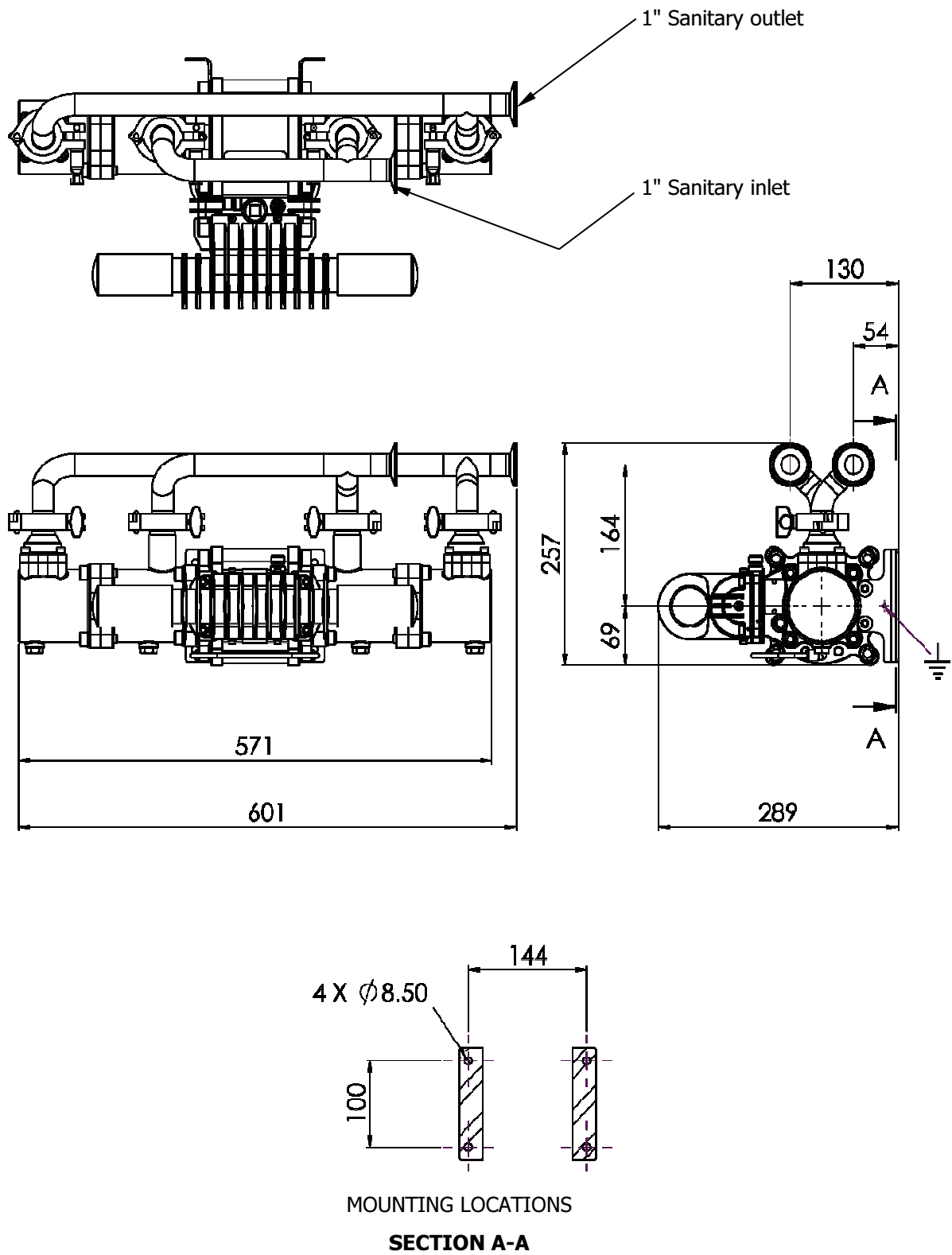
## Specification

|                                                                        |                                                                              |
|------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Ratio:                                                                 | 3:1                                                                          |
| Maximum air inlet pressure:                                            | 7 bar [101.5 psi]                                                            |
| Maximum fluid pressure:                                                | 21 bar [304.5 psi]                                                           |
| Nominal flow volume / cycle:                                           | 0.375 l [0.10 US gal]                                                        |
| Output @ 60 cycles / min:                                              | 22.5 l/m [6 US gal/m]                                                        |
| Maximum recommended continuous cycle rate:Cycles/min                   | 20                                                                           |
| Maximum recommended intermittent cycle rate:Cycles/min                 | 40                                                                           |
| Fluid inlet connection:                                                | 1" Sanitary                                                                  |
| Fluid outlet connection:                                               | 1" Sanitary                                                                  |
| Compressed Air Inlet                                                   | 3/8" BSPP / NPSM                                                             |
| Air volume / cycle @ 3.1 bar/45psi:                                    | 4.8 l/m [0.17 SCFM] @ 3.1 bar [45 psi]                                       |
| Air volume / cycle @ 6.2 bar/90psi:                                    | 9.3 l/m [0.33 SCFM] @ 90 psi [6.2 bar]                                       |
| Air consumption @ 15 cycles/min and 6 bar [87 psi] air inlet pressure: | 142 l/m [5 CFM]                                                              |
| Air consumption @ 30 cycles/min and 6 bar [87 psi] air inlet pressure: | 283 l/m [10CFM]                                                              |
| Max. Pump Fluid Inlet Pressure                                         | 2 bar [30 psi]                                                               |
| Air Quality ISO 8573.1 Class 3.3.2<br># See Note                       | Dirt: 5 microns<br>Water: -20°C @ 7bar [940ppm]<br>Oil: 0.1mg/m <sup>3</sup> |
| Weight:                                                                | 21 kg / 46 lbs                                                               |

### # Note:

Class 3.4.2 Air Quality (Refrigerant dried - water +3°C@7bar) may be used, however, above 15 cycles/min optional heavy duty mufflers 192821 or piped exhaust system should be used, if used continuously.

## Dimensions and Mounting Details



## Installation & Operation

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

- 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 wall mount bracket is included with all pumps.
- The Pump Mounting bracket must be connected to a suitable earth ground to ensure that there is no possibility of static build up.
- Attach suitable flexible hoses to the inlet and outlet connections.
- Connect a suitable 3/8" Nominal Bore air hose and 1/2" Pressure Filter Regulator to the air motor. (Filter rated at minimum 1000 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.
- 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 should 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.
- Exhaust kits are available for these pumps if the air exhaust is required to be piped away from the pump rather than exhausting locally through the mufflers.

## NOTES

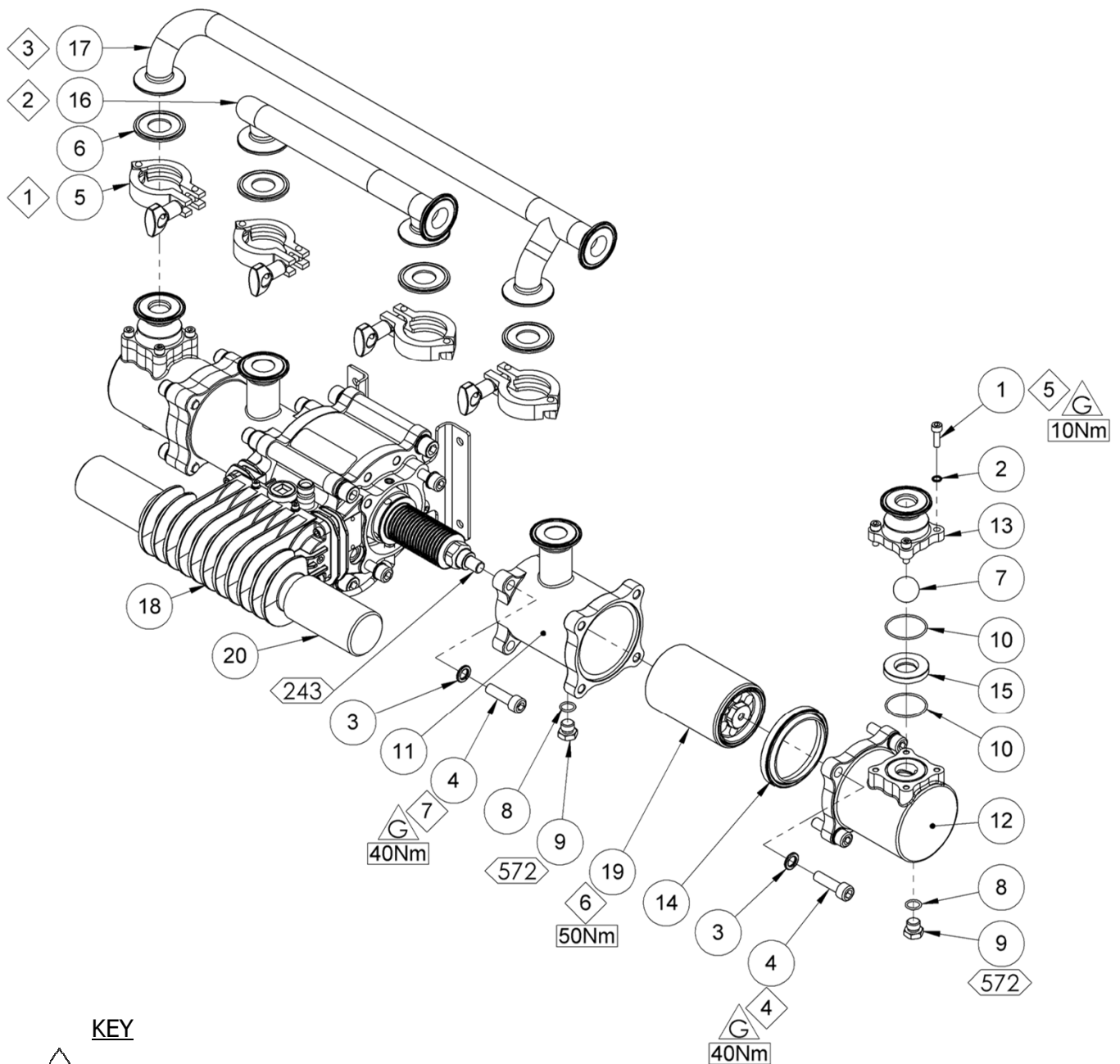
## Parts list - Pump Assembly 104009

| ITEM | PART NO. | DESCRIPTION                    | QTY | REMARKS & SPARES KIT |
|------|----------|--------------------------------|-----|----------------------|
| 1    | 163952   | M6 x 21 HEX HEAD CAP SCREW     | 8   |                      |
| 2    | 165087   | M6 SPRING WASHER               | 8   |                      |
| 3    | 165123   | M10 SPRING WASHER              | 16  |                      |
| 4    | 165947   | M10 x 35 SOCKET HEAD CAP SCREW | 16  |                      |
| 5    | 192009   | 1" x 1.5" SANITARY CLAMP       | 4   |                      |
| 6    | 192206   | 1" PTFE SANITARY GASKET        | 4   | ① ②                  |
| 7    | 192382   | Ø25.4 BALL                     | 2   | ②                    |
| 8    | 192505   | Ø12.42 x 1.78 O-RING           | 4   | ① ②                  |
| 9    | 192551   | 1/4" HEXAGON PLUG              | 4   |                      |
| 10   | 192712   | Ø37.82 x 1.78 O-RING           | 4   | ① ②                  |
| 11   | 192825   | INLET CYLINDER                 | 2   |                      |
| 12   | 192826   | OUTLET CYLINDER                | 2   |                      |
| 13   | 192827   | OUTLET CHECK                   | 2   |                      |
| 14   | 162844   | PISTON SEAL                    | 2   | ① ② #                |
| 15   | 192833   | SEAT                           | 2   | ②                    |
| 16   | 192834   | INLET MANIFOLD                 | 1   | *                    |
| 17   | 192835   | OUTLET MANIFOLD                | 1   | *                    |
| 18   | 193703   | AIR MOTOR ASSEMBLY             | 1   |                      |
| 19   | 194242   | Ø70 PISTON ASSEMBLY            | 2   |                      |
| 20   | 192777   | MUFFLER                        | 2   |                      |

# Recommended spare parts for continually running pumps

\* These items are replaced by 194723 and 195537 central vertical inlet & outlet manifolds on 104009-CBI pump variants.

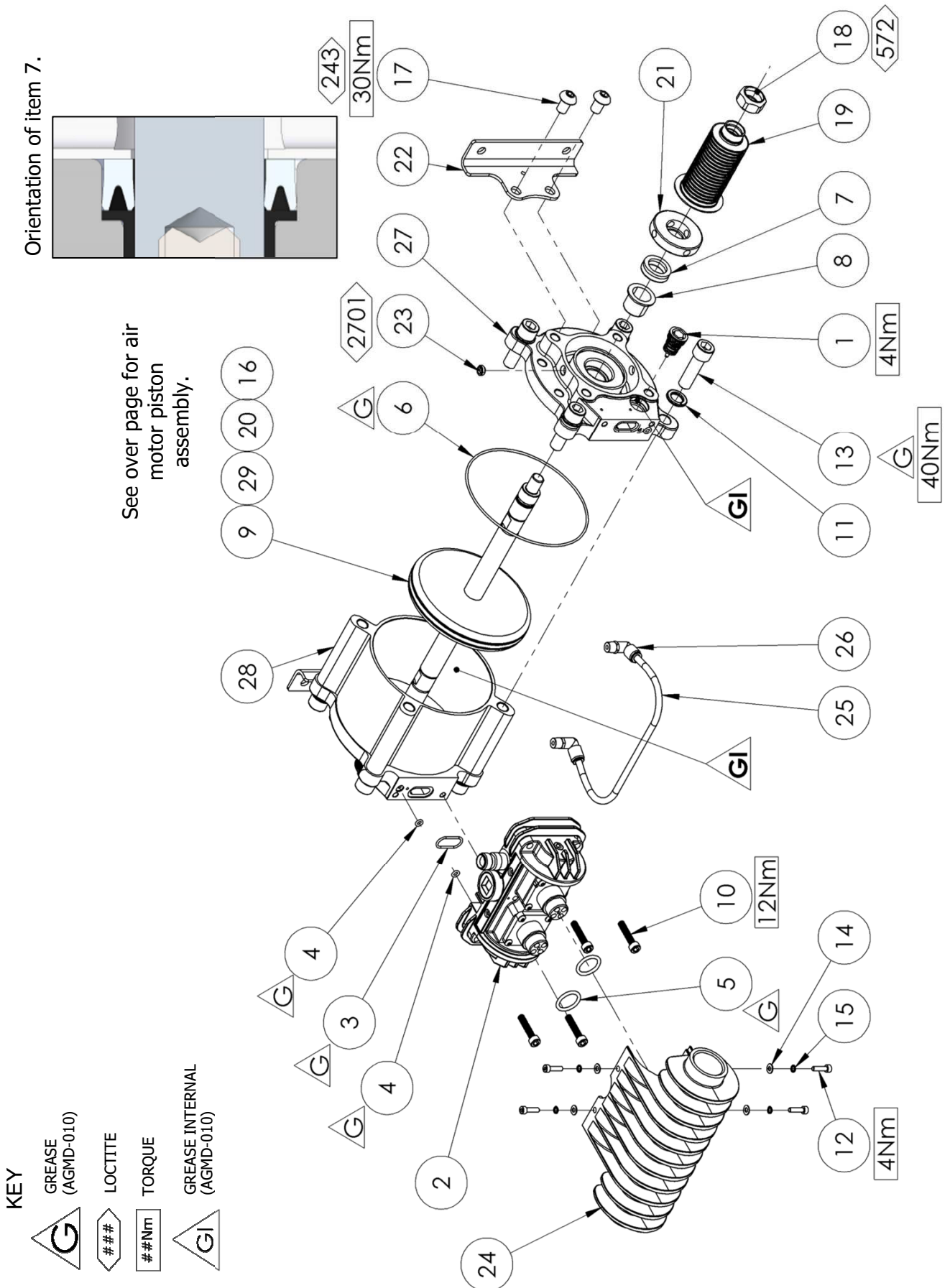
# Pump Assembly 104009



## Parts list - Air Motor Assembly 193703

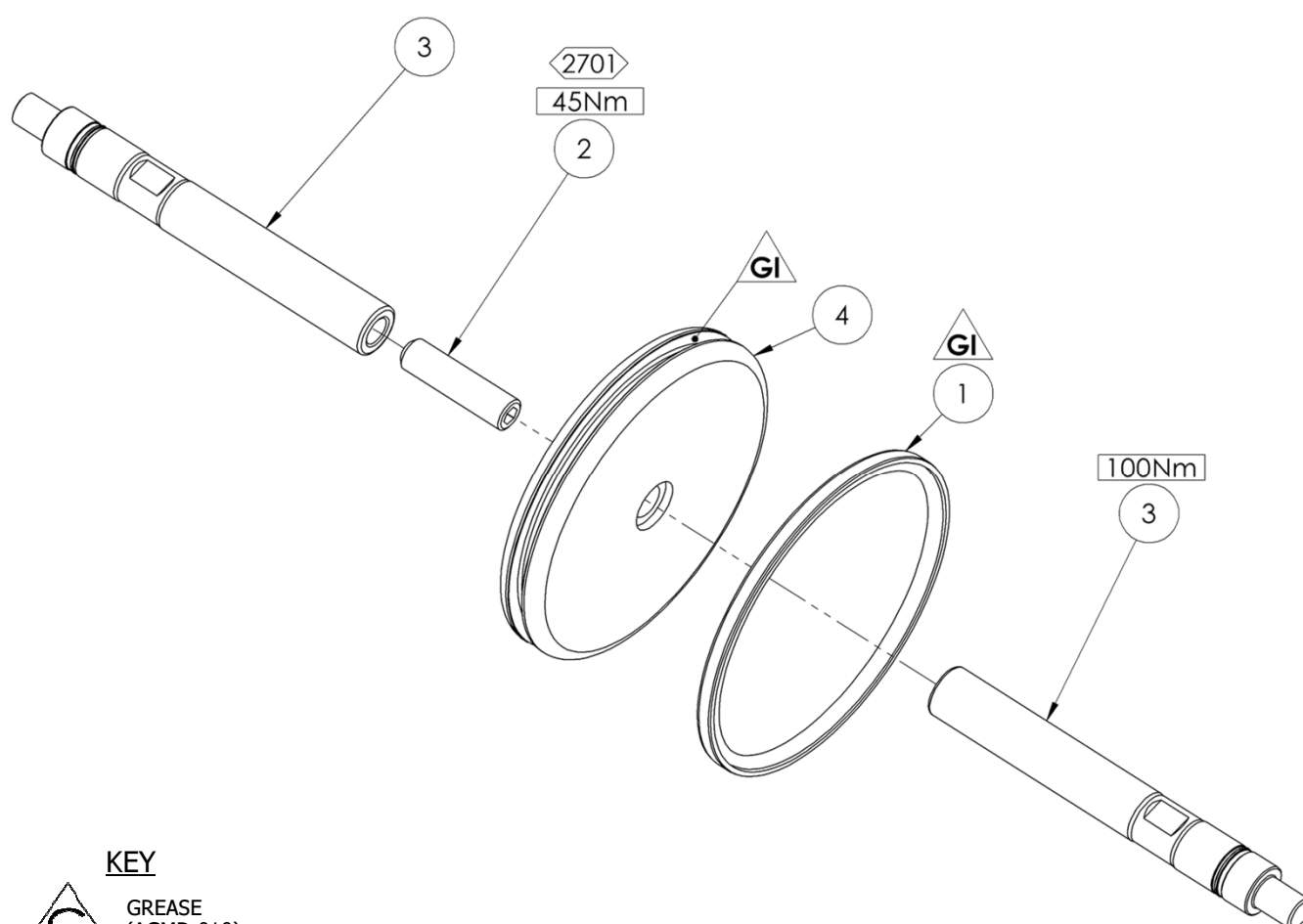
| ITEM | PART NO.    | DESCRIPTION                    | QTY | REMARKS & SPARES KIT |
|------|-------------|--------------------------------|-----|----------------------|
| 1    | 0115-010037 | POPPET ASSEMBLY                | 2   | ④ #                  |
| 2    | 0115-010102 | AIR VALVE ASSEMBLY             | 1   |                      |
| 3    | 161993      | Ø20.35 x 1.78 VITON O-RING     | 2   | ③                    |
| 4    | 161994      | Ø4.47 x 1.78 O-RING            | 4   | ③                    |
| 5    | 161995      | Ø19.5 x 3.0 O-RING             | 2   | ③                    |
| 6    | 161998      | Ø125 x 2.0 O-RING              | 2   | ③                    |
| 7    | 162703      | SHAFT SEAL                     | 2   | ③                    |
| 8    | 162704      | SHAFT BEARING                  | 2   | ③                    |
| 9    | 162707      | AIR MOTOR PISTON SEAL          | 1   | ③                    |
| 10   | 163920      | M6 x 30 SOCKET HEAD CAP SCREW  | 4   |                      |
| 11   | 165044      | M12 SPRING WASHER              | 8   |                      |
| 12   | 165528      | M4 x 16 SOCKET HEAD CAP SCREW  | 4   |                      |
| 13   | 165960      | M12 x 40 SOCKET HEAD CAP SCREW | 8   |                      |
| 14   | 165970      | M4 PLAIN WASHER                | 4   |                      |
| 15   | 165971      | M4 SPRING WASHER               | 4   |                      |
| 16   | 165973      | M12 x 45 GRUB SCREW            | 1   |                      |
| 17   | 177038      | M10 x 12 BUTTON HEAD CAP SCREW | 4   |                      |
| 18   | 192374      | RETAINING NUT                  | 2   |                      |
| 19   | 192579      | KNIFED BELLOWS                 | 2   | ② #                  |
| 20   | 192759      | PISTON SHAFT                   | 2   |                      |
| 21   | 192763      | BELLOWS SPACER                 | 2   |                      |
| 22   | 192764      | PUMP BRACKET                   | 2   |                      |
| 23   | 192799      | VENT PLUG                      | 2   |                      |
| 24   | 192812      | EXHAUST ADAPTER                | 1   |                      |
| 25   | 192814      | BELLOWS LEAK DETECTION HOSE    | 1   | ③                    |
| 26   | 192815      | PUSH IN ELBOW                  | 2   | 1/8R - 6mm           |
| 27   | 192830      | END PLATE MACHINING            | 2   |                      |
| 28   | 192831      | AIR CYLINDER                   | 1   |                      |
| 29   | 192832      | AIR MOTOR PISTON               | 1   |                      |

# Air Motor Assembly 193703



## Air Motor Piston Assembly

| ITEM | PART NO. | DESCRIPTION           | QTY | SPARES KIT |
|------|----------|-----------------------|-----|------------|
| 1    | 162707   | AIR MOTOR PISTON SEAL | 1   | ③          |
| 2    | 165973   | M12 x 41 GRUB SCREW   | 1   |            |
| 3    | 192759   | PISTON SHAFT          | 2   |            |
| 4    | 192832   | PISTON                | 1   |            |



### KEY

 GREASE  
(AGMD-010)

 LOCTITE

 TORQUE

 MAINTENANCE ORDER  
(Reverse for assembly)

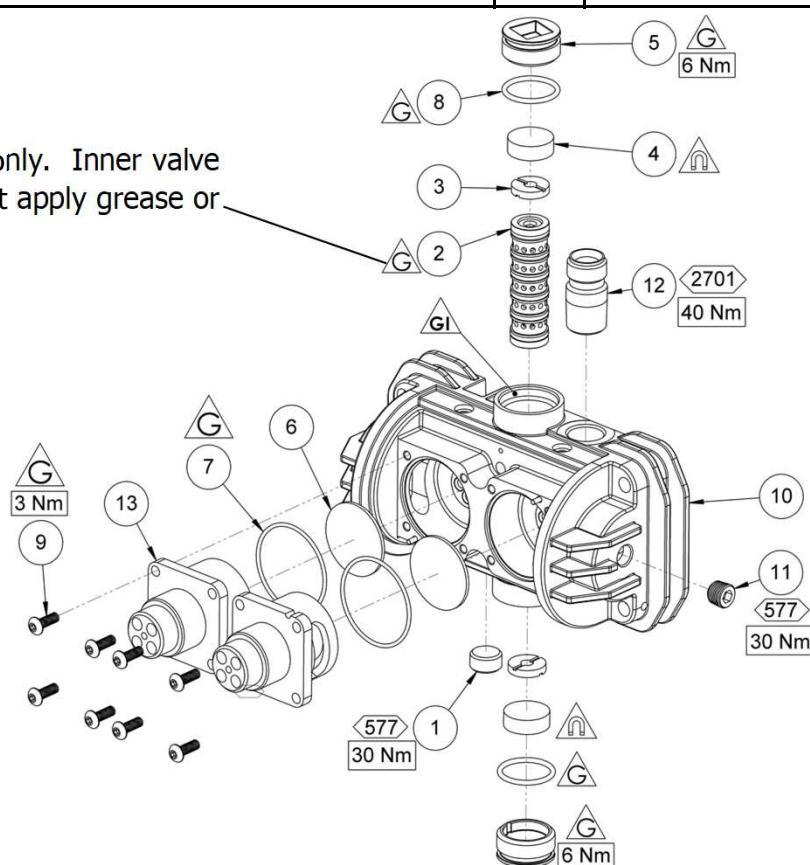
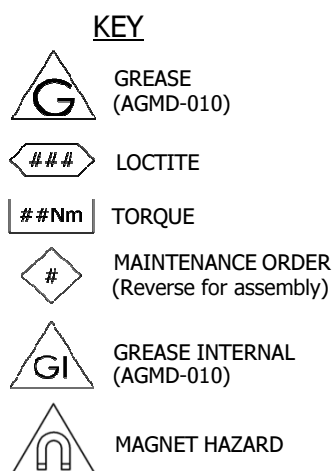
 GREASE INTERNAL  
(AGMD-010)

 MAGNET HAZARD

## Air Valve Assembly 0115-010102

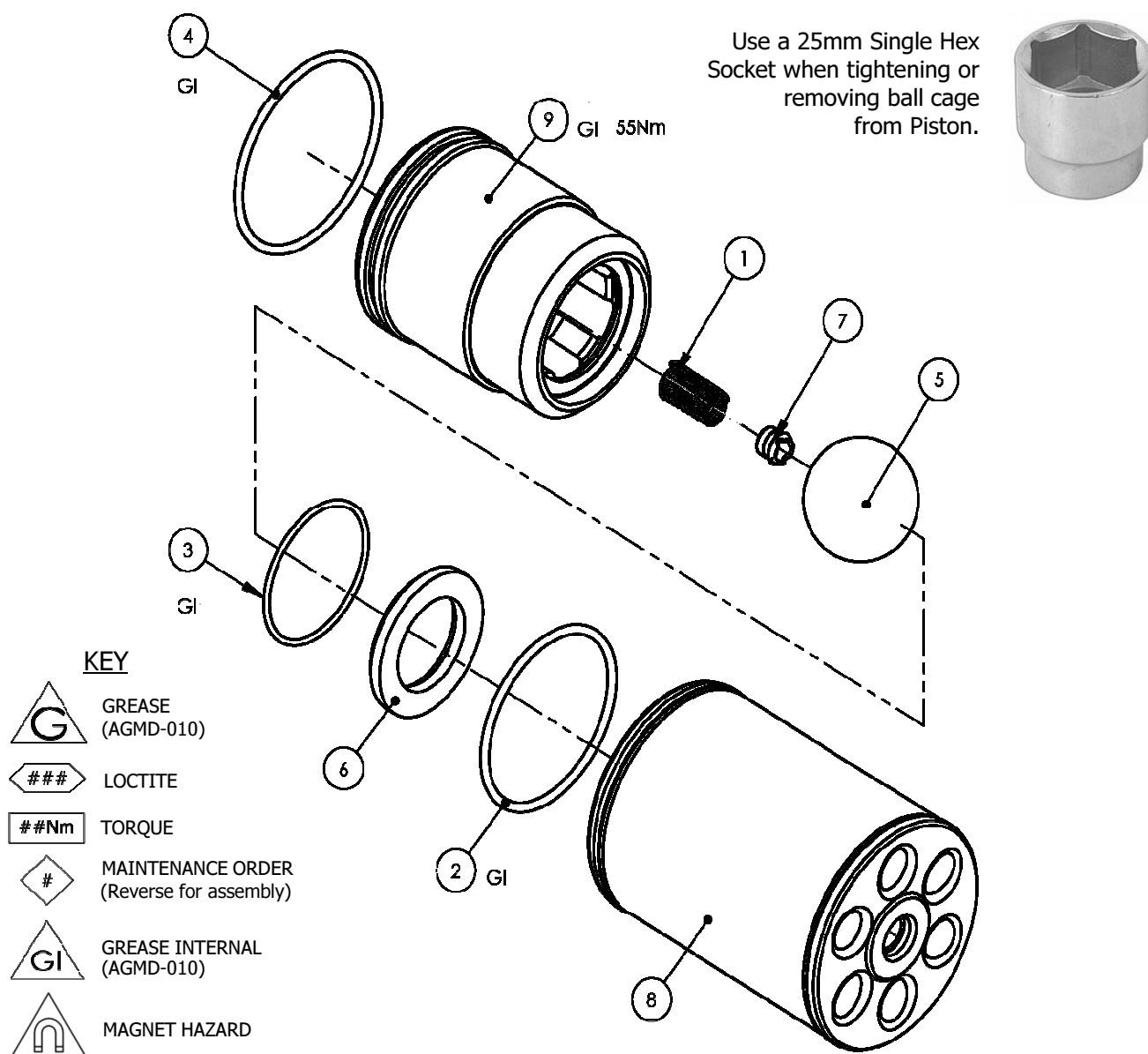
| ITEM | PART NO.    | DESCRIPTION                      | QTY | REMARKS & SPARES KIT |
|------|-------------|----------------------------------|-----|----------------------|
| 1    | 0114-014657 | 1/4" BSPP PIPE PLUG              | 1   |                      |
| 2    | 0115-010015 | SPOOL AND SLEEVE ASSEMBLY        | 1   | ④ #                  |
|      | 162789      | SPOOL AND SLEEVE O-RING          | 6   | Not Shown            |
| 3    | 0115-010016 | BUMPER                           | 2   | ④                    |
| 4    | 0115-010017 | MAGNET                           | 2   | ④                    |
| 5    | 0115-010018 | VALVE BLOCK END CAP              | 2   |                      |
| 6    | 0115-010020 | DIAPHRAGM                        | 2   | ③                    |
| 7    | 0115-010021 | Ø36 x 1.5 O-RING                 | 2   | ③                    |
| 8    | 0115-010049 | Ø20 x 2.0 O-RING                 | 2   | ④                    |
| 9    | 0115-010073 | M4 x 12 SS BUTTON HEAD CAP SCREW | 8   |                      |
| 10   | 0115-010097 | VALVE BLOCK                      | 1   |                      |
| 11   | 0115-010107 | 1/8" BSPT PIPE PLUG              | 1   |                      |
| 12   | 180584      | 3/8" UNIVERSAL FITTING           | 1   |                      |
| 13   | 192813      | QUICK EXHAUST VALVE CAGE         | 2   |                      |

Grease over outer surface of orings only. Inner valve spool must be clean and dry - do not apply grease or lubricate.



## Fluid Piston Assembly 194242

| ITEM | PART NO. | DESCRIPTION              | QTY | SPARES KIT |
|------|----------|--------------------------|-----|------------|
| 1    | 160533   | PISTON BALL CHECK SPRING | 1   | ① ②        |
| 2    | 162855   | Ø52.07 x 2.62 O-RING     | 1   | ① ②        |
| 3    | 162856   | Ø41.0 x 1.78 O-RING      | 1   | ① ②        |
| 4    | 162857   | Ø56.82 x 2.62 O-RING     | 1   | ① ②        |
| 5    | 171788   | Ø1.375" BALL             | 1   | ②          |
| 6    | 192632   | SEAT                     | 1   | ②          |
| 7    | 193188   | INLET SPRING KEEP        | 1   | ① ②        |
| 8    | 194111   | Ø70 FLUID PISTON         | 1   |            |
| 9    | 194113   | BALL CAGE                | 1   |            |



## NOTES

## 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 seals.                                                                 |
|                       | 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.                                        |

## Fault Finding

| Symptom                                                        | Possible Cause                                      | Remedy                                                                            |
|----------------------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------|
| 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. |
|                                                                | 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 Pump

| KIT No.                                                   | PART NO.    | DESCRIPTION                        | QTY. | REMARKS                                                      |
|-----------------------------------------------------------|-------------|------------------------------------|------|--------------------------------------------------------------|
| ①                                                         | 250790 **   | Fluid section seal kit             | 1    | Check main parts list for details of individual kit contents |
| ②                                                         | 250736 **   | Fluid overhaul kit                 | 1    |                                                              |
| ③                                                         | 250627      | Air Motor Seal Kit                 | 1    |                                                              |
| ④                                                         | 250628      | Control Valve Kit                  | 1    |                                                              |
| #                                                         | 0115-010037 | Poppet Assembly                    | 1    | 2 off per pump                                               |
| #                                                         | 0115-010015 | Main Spool & Sleeve Valve Assembly | 1    | 1 off per pump                                               |
| #                                                         | 162844      | Piston seal                        | 1    | 2 off per pump                                               |
| #                                                         | 192579      | Knifed Bellows                     | 1    | 2 off per pump                                               |
| # - Recommended spare parts for continually running pumps |             |                                    |      |                                                              |

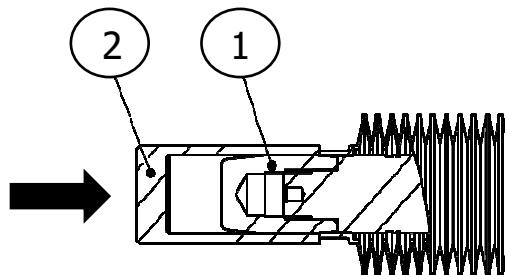
\*\* Note:

Fluid section seal & fluid section overhaul kits contain all the necessary components to service Mark one and two pistons. Discard components not required.

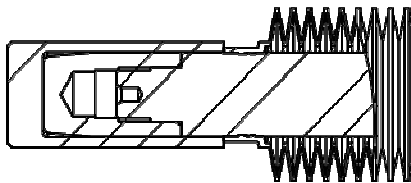
| Maintenance schedule                                                                                           |                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Inspection                                                                                                     | Operation                                                                                                         |
| Daily                                                                                                          | Check for any general fluid or air leakage.                                                                       |
| Weekly                                                                                                         | Inspect Pump for Correct operation.                                                                               |
|                                                                                                                | Check for any excessive mechanical noise.                                                                         |
|                                                                                                                | Check for excessive fluid pressure pulsation.                                                                     |
| 6 Month Test                                                                                                   | Perform a pump stall test to ensure correct operation.                                                            |
|                                                                                                                | If pump does not stall check fluid piston seals and ball checks, replace as required.                             |
|                                                                                                                | If air is escaping through exhaust, check air motor piston seal and quick exhaust diaphragm, replace as required. |
| 12 to 36 Months (Typically 10 million pump cycles dependent on air quality and abrasiveness of the paint used) | Replace air piston seal,                                                                                          |
|                                                                                                                | Replace shaft seals & bearings.                                                                                   |
|                                                                                                                | Inspect and replace if required: Pilot Air Valves & Main Air Valve Parts.                                         |
|                                                                                                                | Replace fluid piston seal,                                                                                        |
|                                                                                                                | Replace Balls, Seats and Bellows.                                                                                 |

## Bellows Replacement

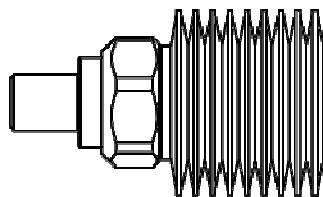
| ITEM | PART NO. | DESCRIPTION              | QTY | REMARKS |
|------|----------|--------------------------|-----|---------|
| 1    | 502382   | Bellows Assembly Spigot  | 1   |         |
| 2    | 502769   | Bellows Positioning Tool | 1   |         |



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



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



Smear loctite 572 over nose of bellows, thread nut onto bellows ensuring the thread starts squarely. Grip bellows lightly by hand and tighten the nut with a 1" A/F spanner until the nut contacts the bellows shoulder.

## Accessories

| PART NO. | DESCRIPTION                                    | REMARKS                                             |
|----------|------------------------------------------------|-----------------------------------------------------|
| 192206   | 1" Sanitary Gasket                             |                                                     |
| 192009   | 1" & 1 1/2" Heavy duty Sanitary Clamp          |                                                     |
| 192532   | 1" Sanitary -<br>1" BSPT (f) Adapter           |                                                     |
| 502608   | Seal Insertion Tool                            | For Shaft seal (7) (162703)                         |
| 502382   | Bellows Assembly Spigot                        | See page 18 for assembly procedure.                 |
| 502769   | Bellows Positioning Tool                       |                                                     |
| AGMD-010 | Kluber Isoflex Topas NB 52 Grease              | 50ml Tube                                           |
| 192779   | Exhaust Tube Adapter (1" NB hose)              | For piped exhaust                                   |
| 192803   | 1" Manifold Plug                               | For piped exhaust                                   |
| 192820   | Exhaust Tube Adapter (1.25" Nominal Bore hose) | For piped exhaust                                   |
| 192821   | 1" BSP Heavy Duty Mufflers                     | Recommended for high pump pressures and cycle rates |
| 502717   | 1" Sanitary -<br>3/4" NPT (F) Adapter          | Kit with 2 adaptors for 104009-N pump variants.     |

## WARRANTY POLICY

This product is covered by Binks materials and workmanship limited warranty.

The use of any parts or accessories, from a source other than Binks, will void all warranties. Failure to reasonably follow any maintenance guidance provided, may invalidate any warranty.

For specific warranty information please contact Binks.

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

| REGION                      | BINKS CONTACT            |
|-----------------------------|--------------------------|
| Americas                    | Tel: 1-888-992-4657      |
| Europe, Africa, Middle East | Tel: +44 (0)1202 571 111 |
| India                       | marketingroa@binks.com   |
| China                       | Tel: +8621-3373 0108     |
| Korea                       | Tel: +82313663303        |
| Japan                       | Tel: +81 45 785 6421     |
| Australia                   | Tel: +61 (0) 2 8525 7555 |

## WARRANTY PAGE





Binks is a global leader in innovative finishing technologies. Binks reserves the right to modify equipment specifications without prior notice.

Binks®, DeVilbiss®, and Ransburg® are registered trademarks of Binks US, LLC.