

MX22036 & MX19042 Pump & Packages



Patent 7,603,855

Binks

Models: MX22036##-XXX & MX19042##-XXX, ## = PP (PTFE), PU (PTFE/UHMWPE), PL (PTFE/LEATHER), UL (UHMWPE/LEATHER), UU (UHMWPE/UHMWPE)

ADDITIONAL RESOURCES

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

binks.com/en/library

Obey local or municipal regulations for product recycling and disposal.

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 Binks representative for additional copies of this manual.
READ ALL INSTRUCTIONS BEFORE OPERATING THIS PRODUCT

Product Description / Object of Declaration:	104XXX, AX160L-X, AX110L-X, AX200L-XX, AX260L-XX, AX320X-X, MMX4****, MMX12****, MXL4****, MXL12****, MX114****, MX12****, MX19****, MX2****, MX4****, MX8****
This Product is designed for use with:	Solvent & Waterbased Materials
Suitable for use in hazardous area:	Zone 1/Zone 2
Protection Level:	II 2 G c X IIB T4 Ex h IIB T4 Gb X
Notified body details and role:	Element Materials Technology Rotterdam B.V. (2812)
	Lodging of ATEX Technical file
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:	Binks U.K. Limited, Ringwood Road, Bournemouth, BH11 9LH. UK
Representative authorised to compile the technical file	President @. Binks France SAS 5 Place Pierre Semard, 94130 Nogent sur Marne , Paris, 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 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

22/04/2025

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

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Suitable for use in hazardous area:	Zone 1/Zone 2
Protection Level:	II 2 G c X IIB T4 Ex h IIB T4 Gb X
Approved body details and role:	Element Materials Technology Warwick Ltd. UK. (0891)
	Lodging of UKEX Technical file
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:	Binks U.K. Limited, Ringwood Road, Bournemouth, BH11 9LH. UK

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".
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F. A. Sutter

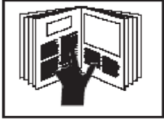
20/05/2025

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

 WARNING	 CAUTION	NOTE
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.



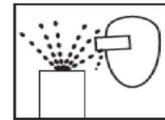
READ THE MANUAL. Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



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.



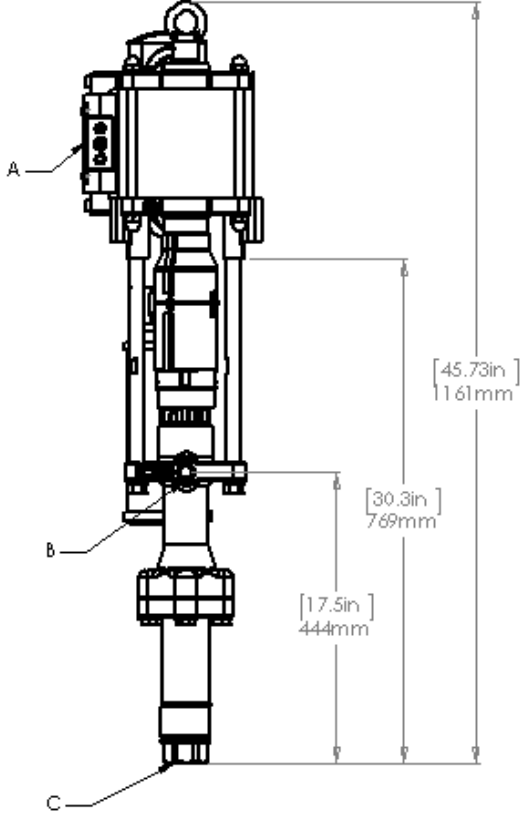
PROP 65 WARNING. WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.



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.

Models: MX22036##-XXX & MX19042##-XXX, ## = PP (PTFE), PU (PTFE/UHMWPE), PL (PTFE/LEATHER), UL (UHMWPE/LEATHER), UU

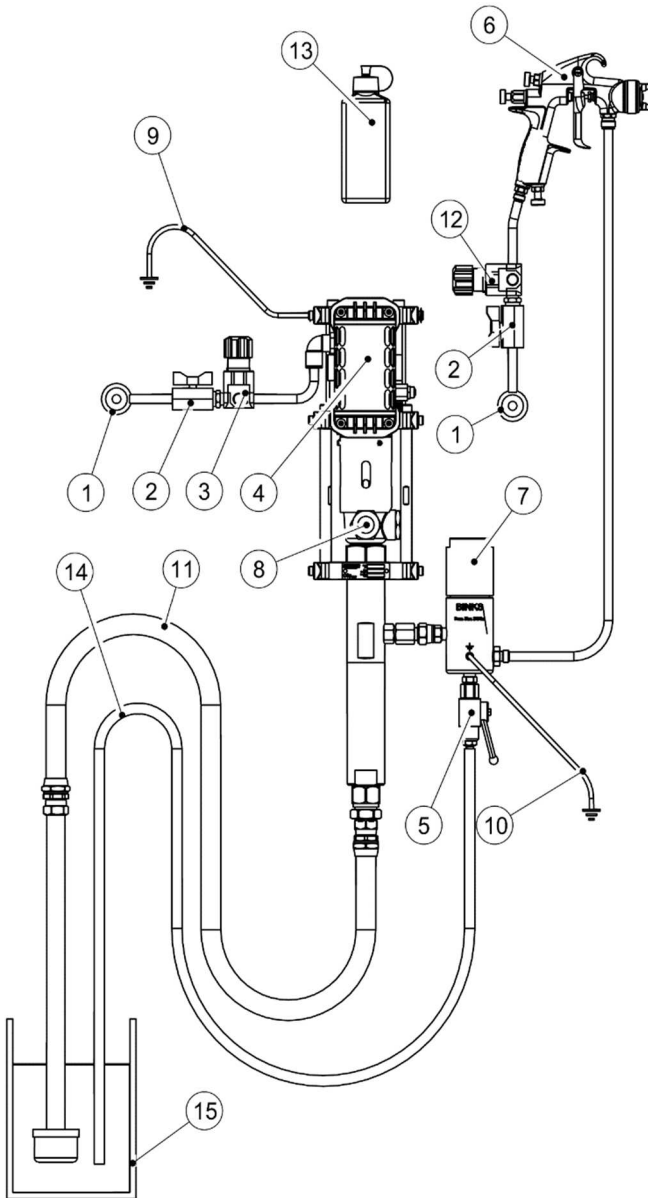


Patent 7,603,855.

SPECIFICATION - Bare Pump

	Ratio:	36:1	42:1
	Maximum air inlet pressure:	8 bar [116 psi]	7 bar [101.5 psi]
	Maximum fluid pressure:	288 bar [4176 psi]	294 bar [4263 psi]
	Displacement per cycle:	220 ml [7.4 oz]	190 ml [6.4 oz]
	Output @ 60 cycles/min:	13.2 l/m [3.5 US gal/m]	11.4 l/m [3.0 US gal/m]
	Air flow @ 25 cycles / min 6.9 bar / 100psi:	1415 l/m [50 SCFM]	
	Maximum Recommended Intermittent Cycle Rate [cycles / min]:	25	
A	Air inlet connection:	3/4" BSPP (f)	
C	Inlet size:	KNOCK-OFF INLET OPTION: 1½" NPT (m)	
		HEXAGON INLET OPTION: 1¼" NPT (f)	
B	Fluid outlet connection:	3/4" NPT (f)	
	Sound level @ 7 Bar:	81 DbA Leq	
	Weight:	38 kg [84 lbs]	
	Wetted parts materials of construction:	See fluid section	

PUMP OPERATION AND CLEANING



1	AIR SUPPLY
2	AIR SHUT OFF VALVE (IF FITTED)
3	AIR PRESSURE REGULATOR
4	BINKS PUMP
5	FLUID PRESSURE RELIEF VALVE (IF FITTED)
6	SPRAY GUN
7	FLUID FILTER (IF FITTED)
8	LUBRICATION CUP & LEVEL
9	EARTH CABLE AIR MOTOR
10	EARTH CABLE FLUID FILTER (IF FITTED)
11	FLUID SUCTION HOSE/SUCTION TUBE/GRAVITY HOPPER - DEPENDING ON MODEL
12	AIR PRESSURE REGULATOR (SPRAY GUN) (IF FITTED)
13	LUBRICANT 0114-016099 SOLVENT BASED MATERIALS 0114-016100 WATER BASED MATERIALS
14	RELIEF/RETURN HOSE (IF FITTED)
15	FLUID CONTAINER

WARNING WEAR EYE PROTECTION WHEN OPERATING THIS EQUIPMENT

WARNING PUMP MUST BE GROUNDED BEFORE OPERATING, TO PREVENT STATIC CHARGES.

WARNING HOSES MUST HAVE A SUITABLE WORKING PRESSURE ABOVE THE MAXIMUM PRESSURE POSSIBLE.

INSTALLATION

1. ENSURE THE PUMP IS LOCATED ON A SUITABLE & STABLE MOUNTING.
2. GROUND/EARTH THE PUMP WITH (9) OR (10), CHECK EARTH IS LESS THAN 1 Ohm.
3. CONNECT SUITABLE HOSES FOR AIR SUPPLY AND FLUID HOSE TO GUN.
4. FILL THE LUBRICATION CUP (8) WITH A SUITABLE LUBRICANT (13) SO IT IS VISIBLE IN THE LEVEL SIGHT GLASS.
5. ENSURE SUITABLE FILTER MESH (100 MESH, 150 μ m STD) IS INSTALLED IN THE FILTER(7).
6. ENSURE RETURN HOSE (14) IF FITTED, IS DIRECTED INTO THE FLUID CONTAINER (15).

CLEANING THE PUMP

NOTE

THE PUMP HAS BEEN TESTED WITH OIL, WATER OR OTHER MATERIAL. CLEAN THE PUMP PRIOR TO USE TO AVOID ANY CONTAMINATION.

1. INSERT SUCTION SYSTEM (11) & RETURN HOSE (14) (IF FITTED) INTO A CONTAINER WITH SUITABLE CLEANING FLUID.
2. CLOSE VALVE (2) AND SET REGULATORS (3) & (12) TO ZERO (WIND ANTICLOCKWISE), OPEN VALVE (5) IF FITTED.
3. REMOVE FLUID NOZZLE FROM THE SPRAY GUN FOR RETURNING FLUID INTO THE CONTAINER.
4. CONNECT AIR SUPPLY.
 - a) IF (5) IS FITTED:
 - 5a. OPEN VALVE (2), INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE.
 - 6a. ALLOW FLUID TO CIRCULATE FOR SEVERAL MINUTES OR UNTIL SYSTEM IS CLEAN.
 - 7a. CLOSE VALVE (5) AND TRIGGER SPRAY GUN INTO CONTAINER FOR SEVERAL MINUTES TO CLEAN HOSE & GUN.
 - 8a. WITH THE TRIGGER STILL OPEN REDUCE REGULATOR PRESSURE (3) TO ZERO, AND OPEN VALVE (5) IF FITTED AND CLOSE TRIGGER.
 - b) IF (5) IS NOT FITTED.
 - 5b. TRIGGER SPRAY GUN AND HOLD OVER CONTAINER, OPEN VALVE (2), INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE.
 - 6b. ALLOW FLUID TO CIRCULATE FOR SEVERAL MINUTES OR UNTIL SYSTEM IS CLEAN.
 - 7b. WITH THE TRIGGER STILL OPEN REDUCE REGULATOR PRESSURE(3) TO ZERO AND ENSURE NO PRESSURE IS LEFT IN THE HOSE AND GUN BEFORE CLOSING THE TRIGGER.

NOTE

REPEAT CLEANING PROCESS UNTIL CLEANING FLUID HAS NO CONTAMINATION, ESPECIALLY IF THE PUMP WILL NOT BE USED IMMEDIATELY, OR HAS BEEN USED WITH 2 COMPONENT PAINTS.


CAUTION

WHEN THE SPRAY GUN IS NOT IN USE THE SAFTEY LOCK SHOULD BE ENGAGED TO PREVENT ACCIDENTAL OPERATION.

STARTUP

1. INSERT SUCTION SYSTEM (11) & RETURN HOSE (14) (IF FITTED) INTO A CONTAINER WITH THE FLUID TO BE SPRAYED
2. CLOSE VALVE (2) AND SET REGULATORS (3) & (12) TO ZERO (WIND ANTICLOCKWISE), OPEN VALVE (5) IF FITTED.
3. REMOVE SPRAY TIP FROM THE GUN FOR RETURNING FLUID INTO THE CONTAINER.
4. CONNECT AIR SUPPLY
 - a) IF (5) IS FITTED:
 - 5a. OPEN VALVE (2), INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE.
 - 6a. WHEN FLUID FLOWS THROUGH HOSE (14) WITHOUT AERATION, CLOSE VALVE (5).
 - 7a. OPEN SPRAY GUN TRIGGER UNTIL FLUID FLOWS INTO CONTAINER WITHOUT AIR, THEN RELEASE TRIGGER.
 - b) IF (5) IS NOT FITTED.
 - 5b. TRIGGER SPRAY GUN AND HOLD OVER CONTAINER, OPEN VALVE (2), INCREASE REGULATOR PRESSURE (3) UNTIL PUMP STARTS TO OPERATE.
 - 6b. KEEP TRIGGER OPEN UNTIL FLUID FLOWS INTO CONTAINER WITHOUT AERATION, THEN RELEASE TRIGGER.
8. REDUCE REGULATOR PRESSURE (3) TO ZERO.
9. APPLY SPRAY GUN SAFETY LOCK WHILE SPRAY TIP IS FITTED.
10. INCREASE REGULATOR PRESSURE (3) UNTIL DESIRED ATOMISATION IS ACHIEVED FROM SPRAY GUN.
11. INCREASE REGULATOR PRESSURE (12) TO ACHIEVE DESIRED SPRAY FAN.

SHUT DOWN

1. REDUCE REGULATOR PRESSURE (3) AND (12) TO ZERO.
2. TRIGGER GUN TO REDUCE SYSTEM PRESSURE.
3. OPEN VALVE (5) SLOWLY IF FITTED.
4. APPLY SPRAY GUN SAFETY LOCK WHILE SPRAY TIP IS REMOVED
5. TRIGGER GUN CAREFULLY INTO CONTAINER AND ENSURE FLUID SYSTEM IS DE-PRESSURISED.
6. CLOSE VALVE (2) AND REMOVE AIR SUPPLY.
7. APPLY SPRAY GUN SAFETY LOCK.
8. CLEAN AS INSTRUCTED AND SOAK/CLEAN SPRAYGUN FLUID NOZZLE.

NOTE	IF THE SYSTEM IS NOT USED FOR AN EXTENDED PERIOD IT IS RECOMMENDED TO BE FILLED WITH A LIGHT OIL AFTER CLEANING.
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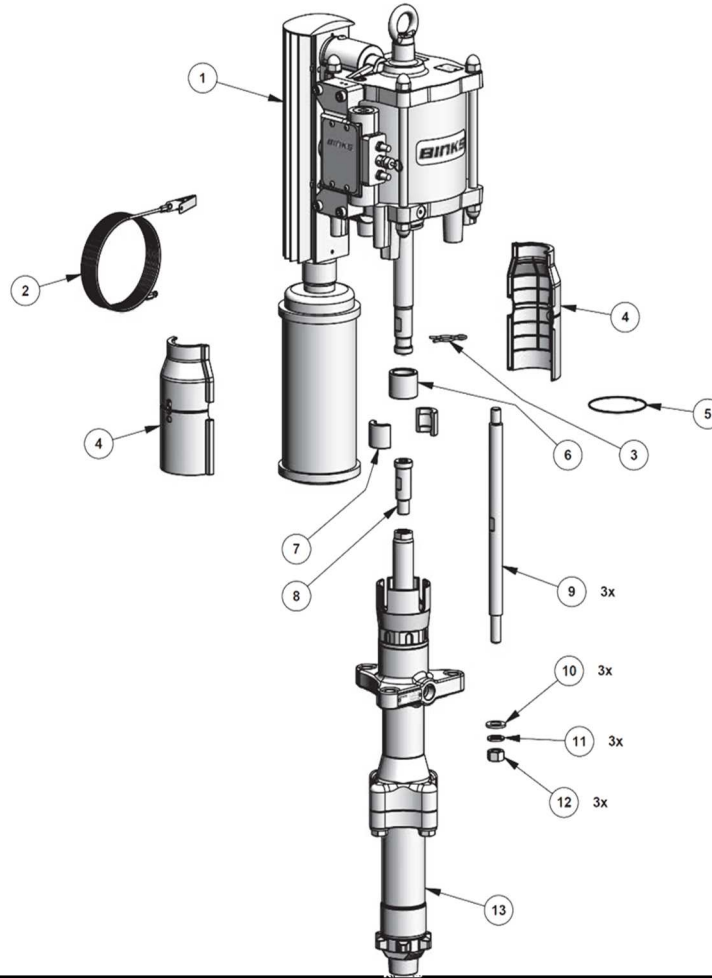
ATEX special conditions for safe use:

Pump Earthing

The pump must be earthed at all times. A resistance $<1\Omega$ when measuring with an ohm-meter at the earth point

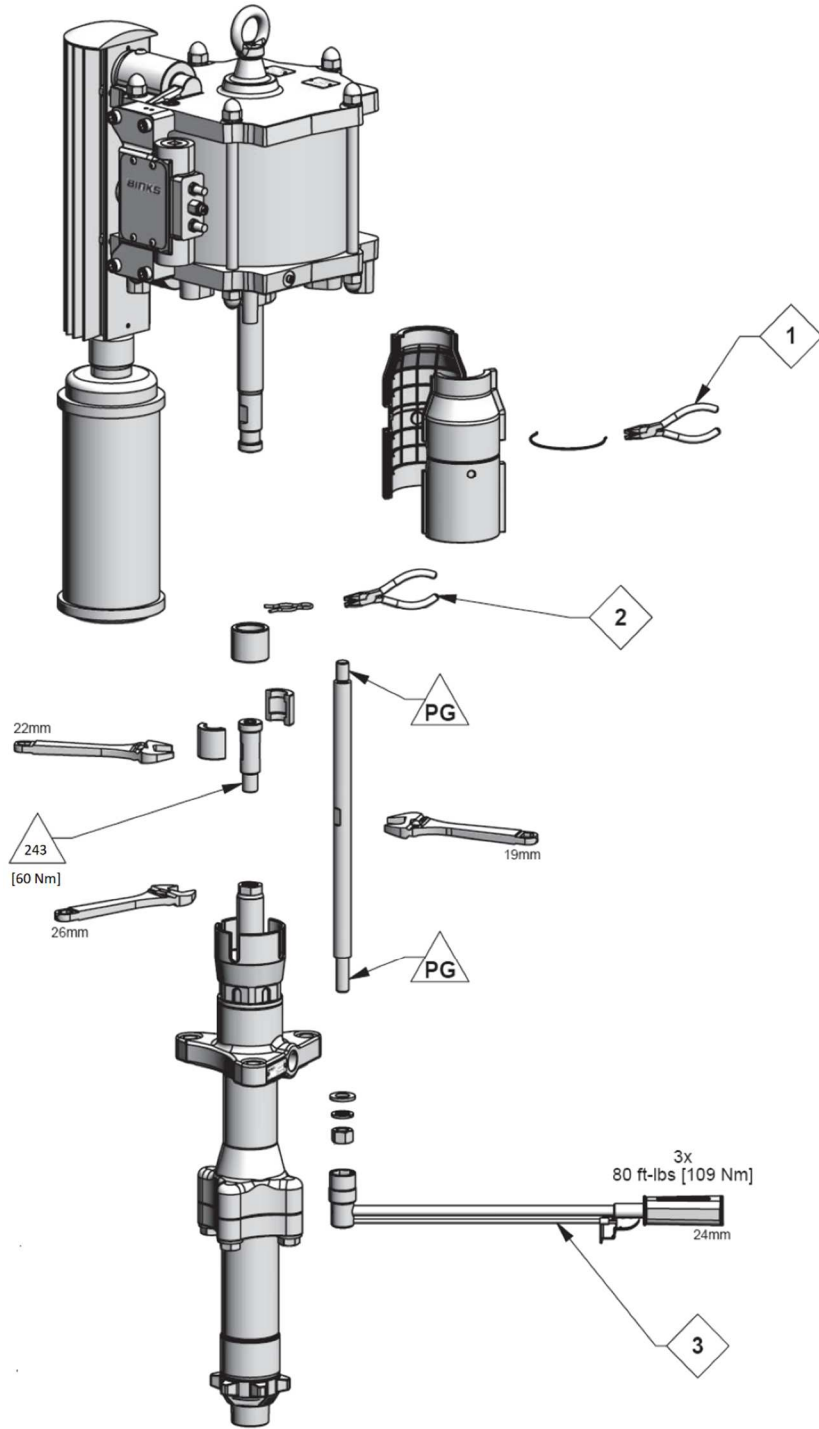
Earth connection, Binks Part No. 0114-011798

MX22036 & MX19042 BARE PUMP



ITEM	PART NUMBER	DESCRIPTION	QUANTITY	
			MX22036	MX19042
1	AX200L-7	AX200L AIR MOTOR ASSEMBLY (7 BAR)	-	1
	AX200L-8	AX200L AIR MOTOR ASSEMBLY (8 BAR)	1	-
2	0114-009743	SPRING LOCK WASHER	1	1
	0114-011798	GROUND WIRE	1	1
	0114-014179	SOCKET HEAD CAP SCREW	1	1
3	0115-010450	HAIR PIN CLIP	1	1
4	193546	GUARD	2	2
5	193543	CLIP	1	1
6	0115-010448	SPLIT COLLAR RETAINER	1	1
7	0115-010445	MOTOR ROD SPLIT COLLAR	1	1
8	0115-010447	PUMP ROD QD ADAPTER	1	1
9	193813	TIE ROD	3	3
10	165097	WASHER	3	3
11	20-6832	SPRING LOCK WASHER	3	3
12	20-6834	NUT	3	3
13	FX190XX-XXH	FX190 FLUID SECTION	-	1
	FX220XX-XXH	FX220 FLUID SECTION	1	-

MX22036 & MX19042 BARE PUMP - MAINTENANCE



MAINTENANCE SYMBOLS:

= MAINTENANCE ORDER
Reverse for assembly

PG = PETROLEUM GREASE/JELLY

243 = LOCTITE 243

MX22036 & MX19042 BARE PUMP - TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Pump will not start	No compressed air. Spray tip is blocked.	Check compressed air supply. Clean or replace the spray tip.
Erratic operation of air motor, air motor stops.	Worn poppet assemblies. Worn or dirty spool and sleeve assembly.	Replace the poppet assemblies. Clean or replace the spool and sleeve assembly, as necessary.
Continuous air leak from the exhaust	Worn poppet assemblies. Worn piston seal. Worn diaphragm.	Replace poppet assemblies. Replace piston seal. Replace diaphragm.
Material in solvent cup.	Worn or dirty upper packings.	Replace or clean upper packings as necessary.
Pump does not stop on the down stroke.	Worn or dirty lower ball check.	Replace or clean the parts as necessary.
Pump does not stop on the up stroke.	Worn or dirty upper ball check. Worn or dirty lower packings.	Replace or clean the parts as necessary.
Pump runs erratically	Blocked siphon kit. Blocked inlet filter or strainer. Low material level.	Replace or clean the siphon kit. Replace or clean the inlet filter or strainer. Replace or refill material container.
Pump runs , with no output.	Loose connection in between pump and siphon kit. Stuck lower ball.	Check that all connections are tight. Replace or clean the parts as necessary.

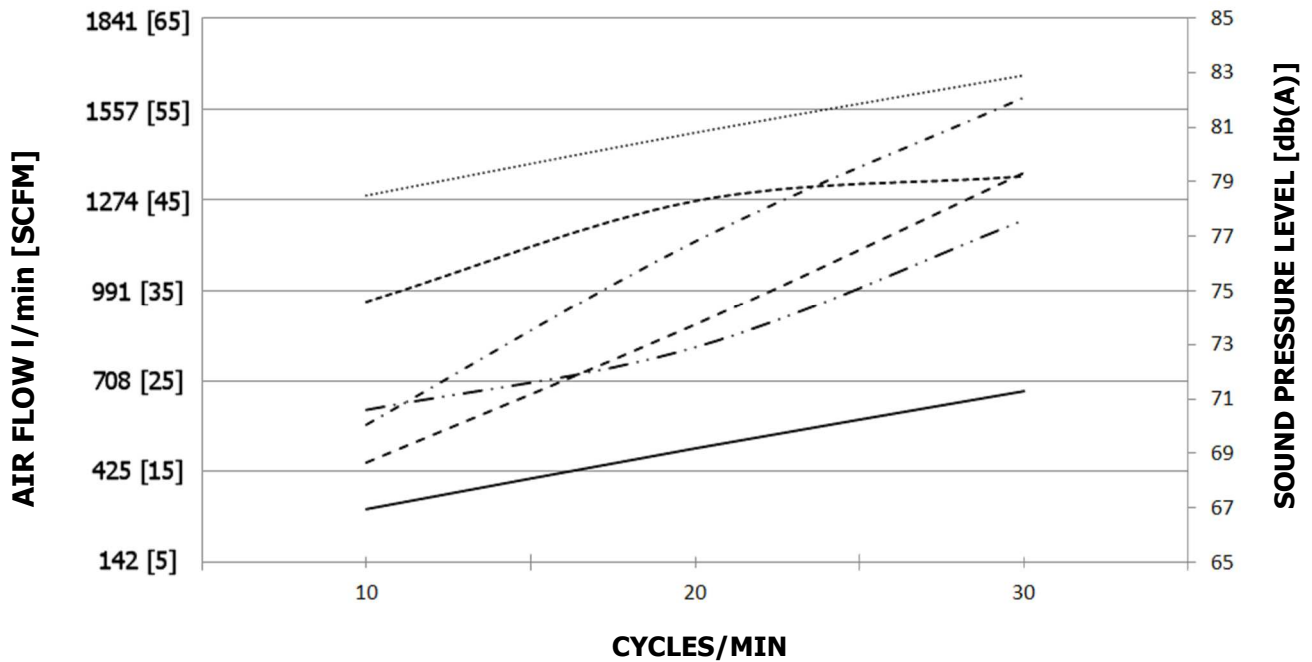
AX200L AIR MOTOR



Patent 7,603,855

AX200L AIR MOTOR

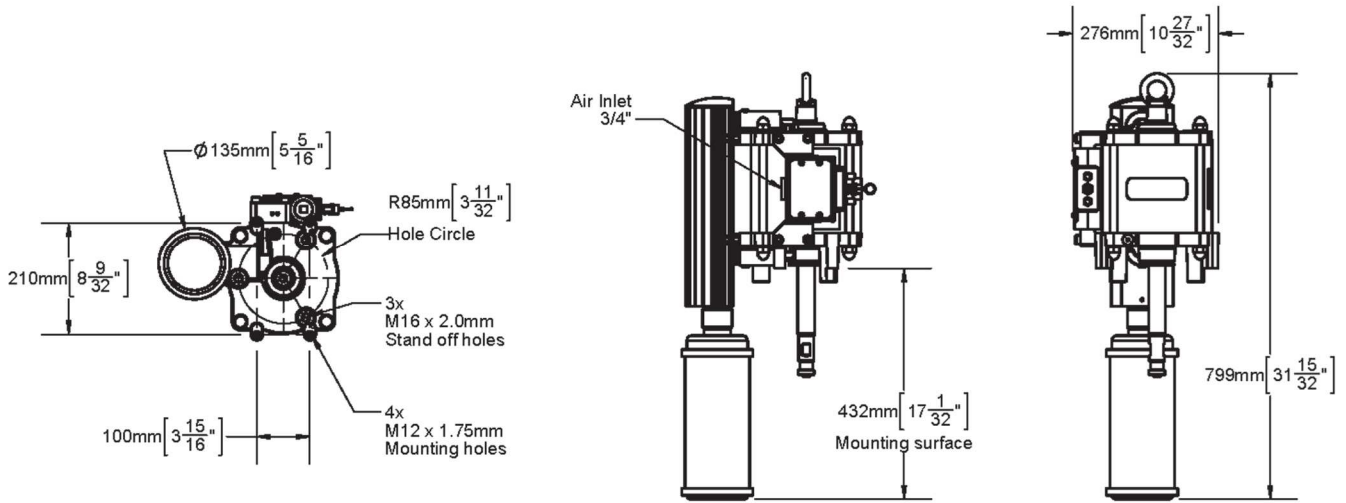
SOUND PRESSURE LEVEL & AIR FLOW



- 2.8 Bar [40 psi] AIR FLOW I/min [SCFM]
- - - 5.5 Bar [80 psi] AIR FLOW I/min [SCFM]
- · · 6.9 Bar [100 psi] AIR FLOW I/min [SCFM]
- | - | 2.8 Bar [40 psi] SOUND PRESSURE LEVEL [db(A)]
- · - · 5.5 Bar [80 psi] SOUND PRESSURE LEVEL [db(A)]
- · · · · 6.9 Bar [100 psi] SOUND PRESSURE LEVEL [db(A)]

	SPECIFICATION			
	AX200L-5	AX200L6	AX200L-7	AX200L-8
Maximum air inlet pressure:	5 Bar [72.5 psi]	6 Bar [87 psi]	7 Bar [101.5 psi]	8 Bar [116 psi]
Maximum Recommended Continous Cycle Rate: cycles/min [strokes]	20 [40]			
Maximum recommended intermittent cycle rate:cycles/min [strokes]	30 [60]			
Air inlet connection:	3/4" BSPP/NPS (f)			
Nominal pump stroke:	127mm [5"]			
Ambient temperature range:	0 - 71°C [0 - 160°F]			
Weight:	20Kg [44lbs]			

AX200L AIR MOTOR



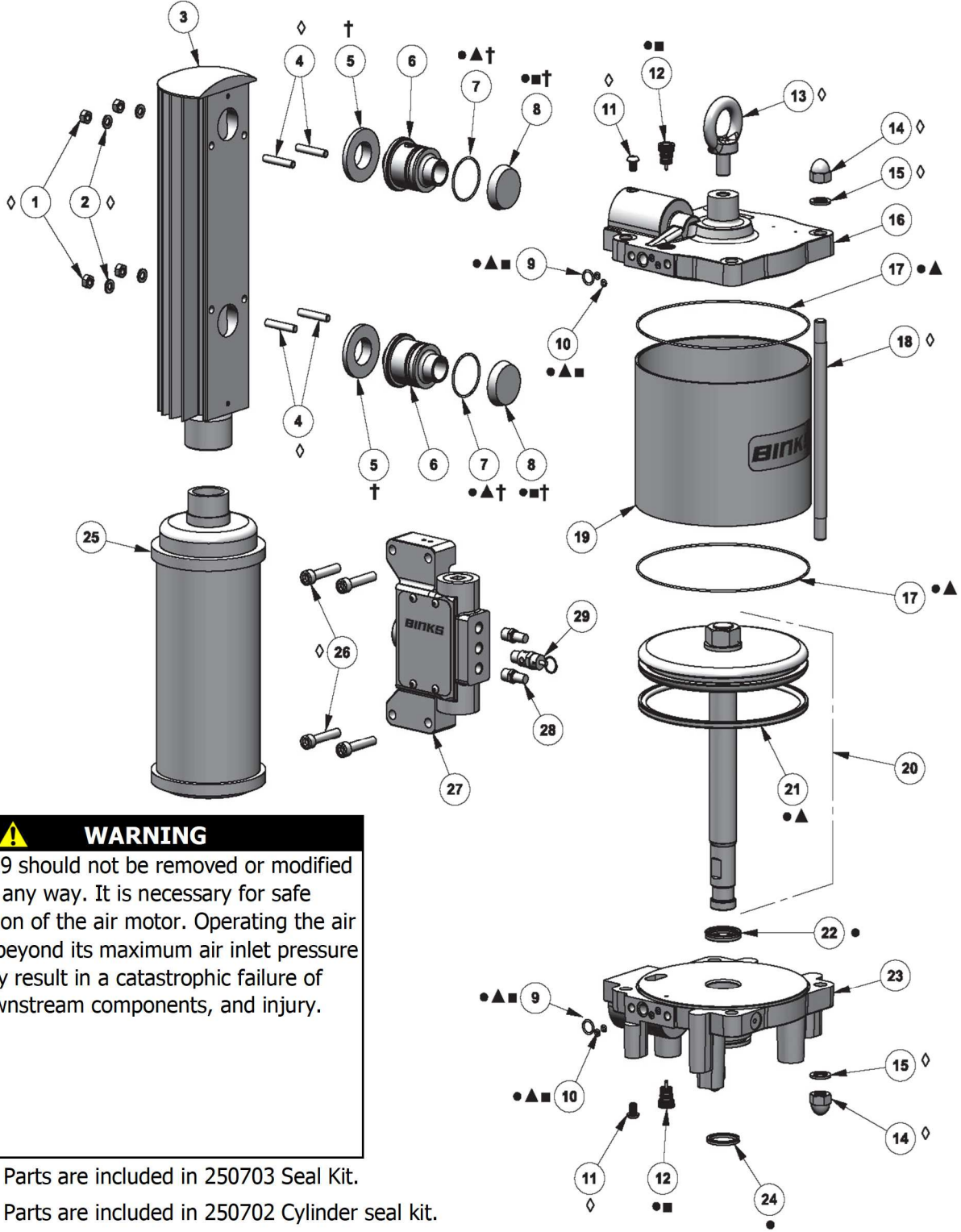
MAINTENANCE

INSPECTION	OPERATION	
Daily	Check for general air leakage and correct motor operation.	
6 Month Test	Perform a pump stall test to ensure correct operation.	
	Perform a stall test on the pump assembly. If air is escaping through exhaust, check air motor piston seal and QEV piston, replace as required.	
12 to 36 Months (Typically 10 million pump cycles, dependant on air quality)	Replace air piston seal. Replace motor rod cartridge assembly. Replace poppet assemblies.	Order a 250703 Seal Kit.
	Inspect and replace if required: Main valve assembly parts.	Order a 250649 Valve repair kit.

TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
Motor will not run	No air supply.	Check air and fluid supply ball valves and supply hoses.
	Air piston seal worn.	Replace piston seal.
	Poppet assemblies are not working.	Switch/interchange poppet assemblies to isolate the faulty poppet, and clean or replace.
	Main valve assembly is not working.	Check the main valve assembly, and clean or replace.
	QEV's are not working.	Check for constant exhaust air when pump is not in a stalled condition. Check the QEV pistons, and clean or replace.
Pump runs but has excessive pulsation.	Worn piston seal.	Replace piston seal.
	Worn/failed motor rod seals.	Replace motor rod cartridge assembly.
	Damaged QEV.	Inspect, clean and replace as required.
	Damaged poppet assembly.	Inspect, clean and replace as required.
	Air exhaust restricted.	Inspect, clean and replace as required.

AX200L AIR MOTOR



⚠ WARNING
 Item 29 should not be removed or modified in any way. It is necessary for safe operation of the air motor. Operating the air motor beyond its maximum air inlet pressure may result in a catastrophic failure of downstream components, and injury.

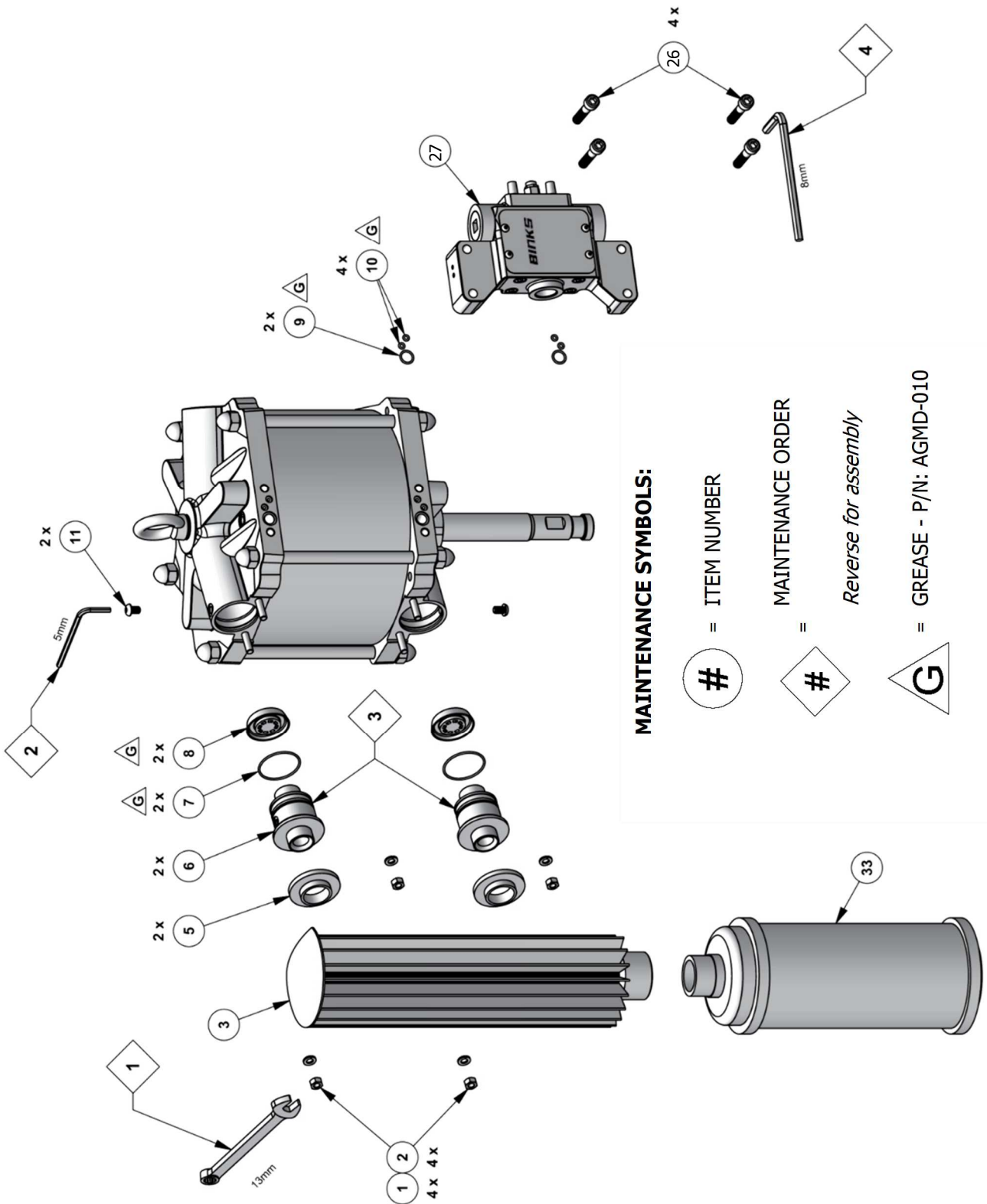
- Parts are included in 250703 Seal Kit.
- ▲ Parts are included in 250702 Cylinder seal kit.
- Parts are included in 250649 Valve repair kit.
- ◇ Parts are included in 250701 Hardware kit.
- † Parts are included in 250651 Exhaust seal kit.

Recommended grease p/n: AGMD-010.
 Item 21 is also contained within item 20, 193806

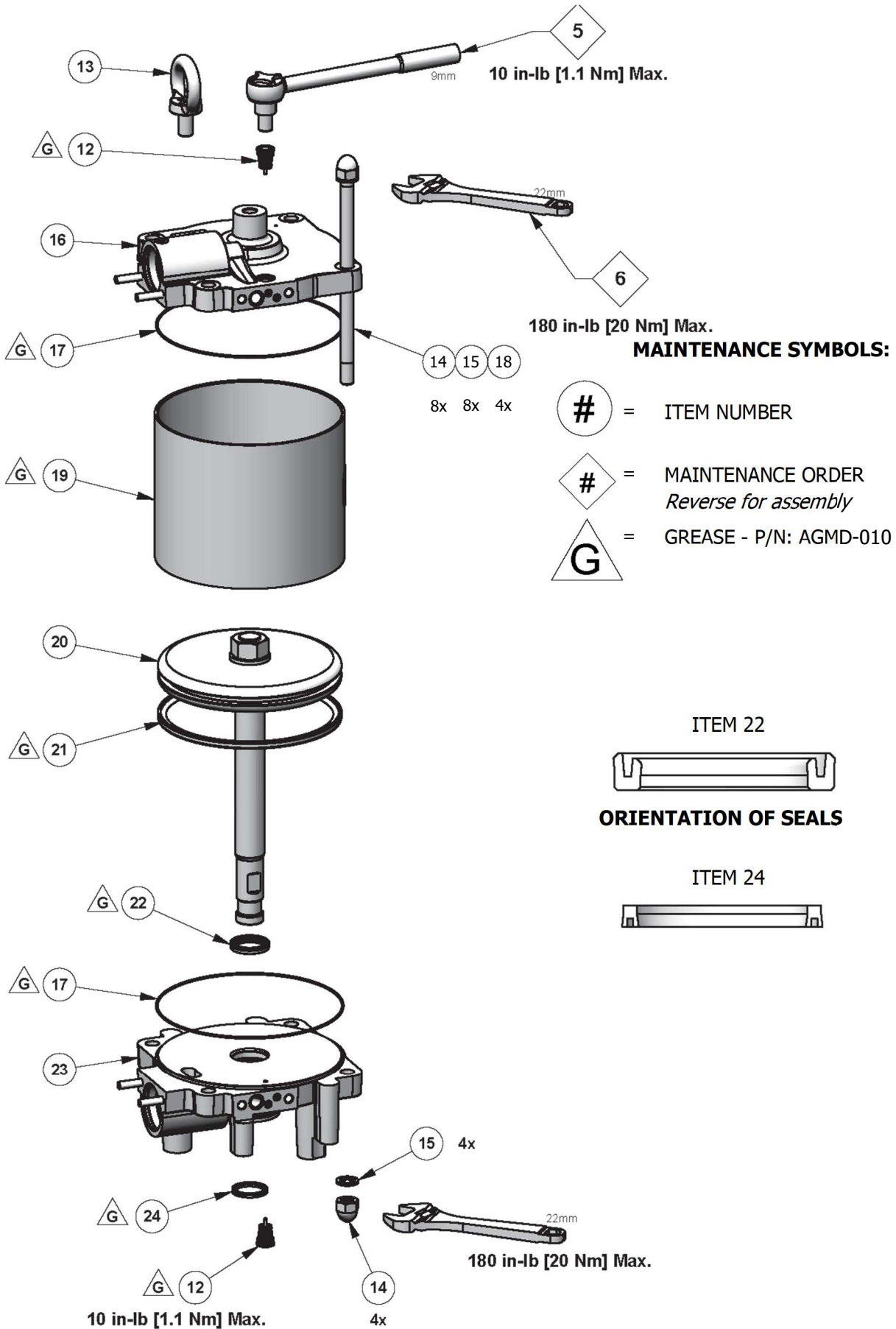
AX200L AIR MOTOR

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS	
1	192049	M8 HEX NUT (ST ST)	4	◇	
2	165108	M8 LOCKWASHER S.S.	4	◇	
3	193159	EXHAUST MANIFOLD ASSEMBLY	1		
4	165994	M8 x 125 x 44mm STUD S.S.	4	◇	
5	193363	EXHAUST GASKET	2	†	
6	193320	QEV CAP	2		
7	162765	2 x 46 mm O-RING	2	● ▲ †	
8	0115-010463	QEV PISTON	2	● ■ †	
9	162766	2 x 13 mm O-RING	2	● ▲ ■	
10	0115-010051	2 x 4 mm O-RING	4	● ▲ ■	
11	177000	M8 x 125 x 12mm BUTTON HEAD SCREW S.S.	2	◇	
12	0115-010037	POPPET ASSEMBLY	2	● ■	
13	193689	M16 EYE BOLT	1	◇	
14	165981	M14 x 2mm DOME NUT S.S.	8	◇	
15	165982	M14 LOCKWASHER	8	◇	
16	193807	AX200L UPPER END CAP	1		
17	162814	2 x 200mm O-RING	2	● ▲	
18	193150	AIR MOTOR TIE ROD	4	◇	
19	194074	AX200L CYLINDER ASSEMBLY	1		
20	193806	AX200L PISTON ASSEMBLY	1		
21	162813	GLYDE RING ASSEMBLY	1	● ▲	
22	193268	MOTOR ROD AIR U-CUP SEAL	1	●	
23	193821	AX200L LOWER END CAP & BEARING	1		
24	0115-010355	MOTOR ROD U-CUP SEAL	1	●	
25	192509	1.5" SILENCER	1		
26	165567	M10 x 50 mm SOCKET HEAD CAP SCREW S.S.	4	◇	
27	0115-010471	MAIN VALVE ASSEMBLY	1		
28	0115-010443	VALVE MUFFLER	2		
29	0114-014716	72 psi [5 bar]	PRESSURE RELIEF VALVE	1	AX200L-5
	193538	87 psi [6 bar]			AX200L-6
	193539	101 psi [7 bar]			AX200L-7
	0114-014774	116 psi [8 bar]			AX200L-8

AX200L AIR MOTOR - MAINTENANCE



AX200L AIR MOTOR - MAINTENANCE



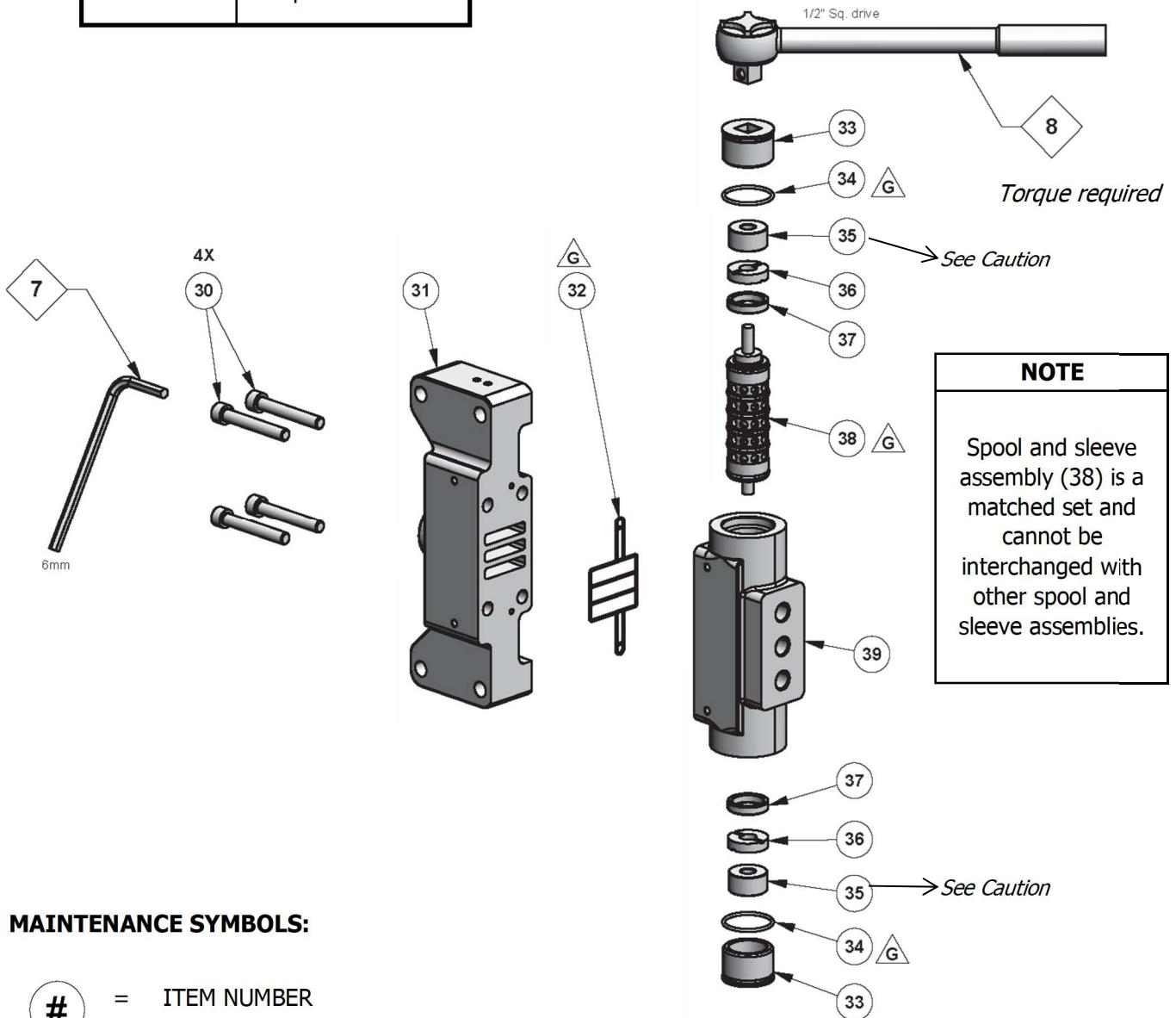
AX200L MAIN VALVE ASSEMBLY

DANGER

You are in the presence of magnetic fields which may interfere with the operation of certain pacemakers

CAUTION

Take care when handling the magnets (35). Avoid getting magnets in close proximity to each other. Injury or damage to magnets may result.



MAINTENANCE SYMBOLS:

- # = ITEM NUMBER
- # = MAINTENANCE ORDER
Reverse for assembly
- G = GREASE
P/N: AGMD-010

AX200L MAIN VALVE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS
30	165990	M8 x 55mm SOCKET HEAD CAP SCREW S.S.	4	■◇
31	0115-010456	MANIFOLD	1	
32	0115-010460	GASKET	1	●▲■
33	0115-010425	VALVE BLOCK END CAP	2	■
34	162767	2 x 30mm O-RING	2	●▲■
35	0115-010428	MAGNET	2	■
36	0115-010427	BUMPER	2	■
37	0115-010431	SPACER	2	■
38	0115-010424	SPOOL AND SLEEVE ASSEMBLY	1	■
39	0115-010454	VALVE BLOCK	1	

- Parts are included in 250703 Seal Kit.
- ▲ Parts are included in 250702 Cylinder seal kit.
- Parts are included in 250649 Valve repair kit.
- ◇ Parts are included in 250701 Hardware kit.

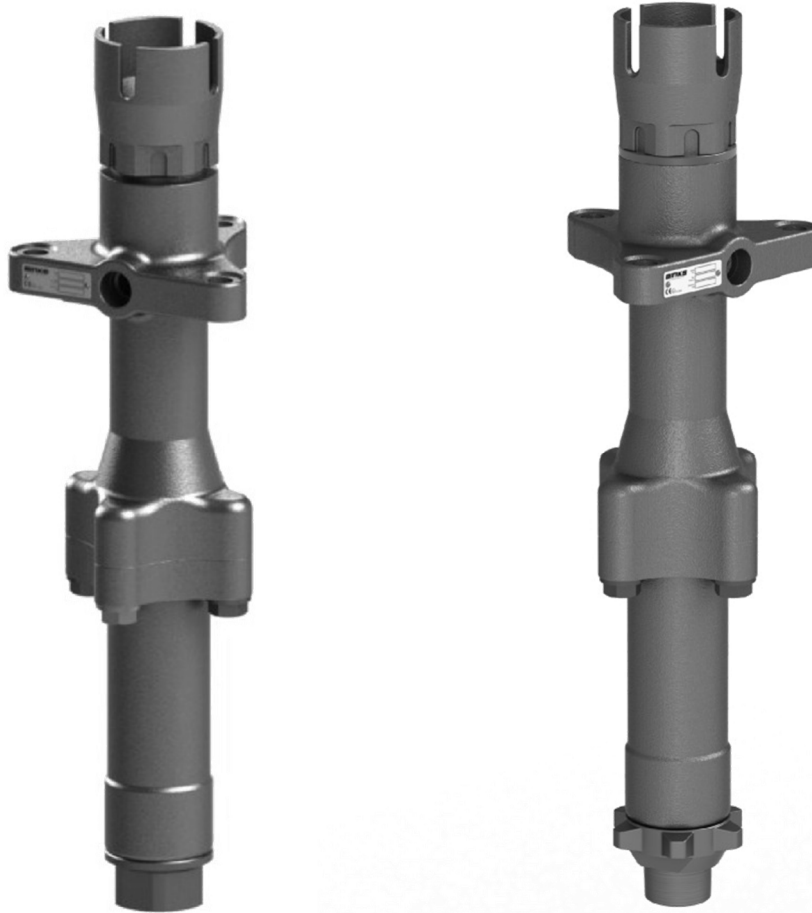
AX200L SERVICE KITS

250649 250651 250701 250702 250703

ITEM	PART NO.	DESCRIPTION	250649	250651	250701	250702	250703
			VALVE REPAIR KIT	EXHAUST SEAL KIT	HARDWARE KIT	CYLINDER SEAL KIT	MOTOR SEAL KIT
1	192049	M8 HEX NUT S.S.			4		
2	165108	M8 LOCKWASHER S.S.			4		
4	165994	M8 x 1.25 x 44mm STUD S.S.			4		
5	193363	EXHAUST GASKET		2			
7	162765	2 x 46mm O-RING		2		2	2
8	0115-010463	QEV PISTON	2	2			2
9	162766	2 x 13mm O-RING	2			2	2
10	0115-010051	2 x 4mm O-RING	4			4	4
11	177000	M8 x 1.25 x 12mm BUTTON HEAD SCREW S.S.			2		
12	0115-010037	POPPET ASSEMBLY	2				2
13	193689	M16 EYE BOLT			1		
14	165981	M14 x 2mm DOME NUT S.S.			8		
15	165982	M14 x 2mm LOCKWASHER			8		
17	162814	2 x 200mm O-RING				2	2
18	193150	AIR MOTOR TIE ROD			4		
21	162813	GLYDE RING ASSEMBLY				1	1
22	193268	MOTOR ROD AIR U-CUP SEAL					1
24	0115-010355	MOTOR ROD U-CUP SEAL					1
26	165567	M10 x 50mm SOCKET HEAD CAP SCREW S.S.			4		
30	165990	M8 x 1.25 x 55mm SOCKET HEAD CAP SCREW S.S.	4		4		
32	0115-010460	GASKET	1			1	1
33	0115-010425	VALVE BLOCK END CAP	2				
34	162767	2 x 30mm O-RING	2			2	2
35	0115-010428	MAGNET	2				
36	0115-010427	BUMPER	2				
37	0115-010431	SPACER	2				
38	0115-010424	SPOOL AND SLEEVE ASSEMBLY	1				

NOTES

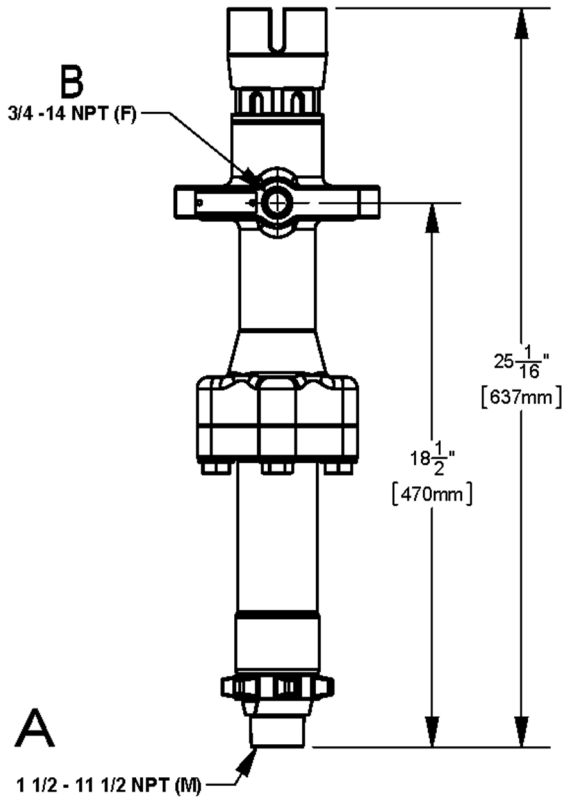
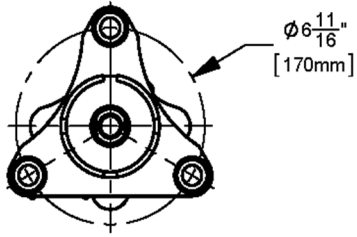
FX190 AND FX220 FLUID PUMP



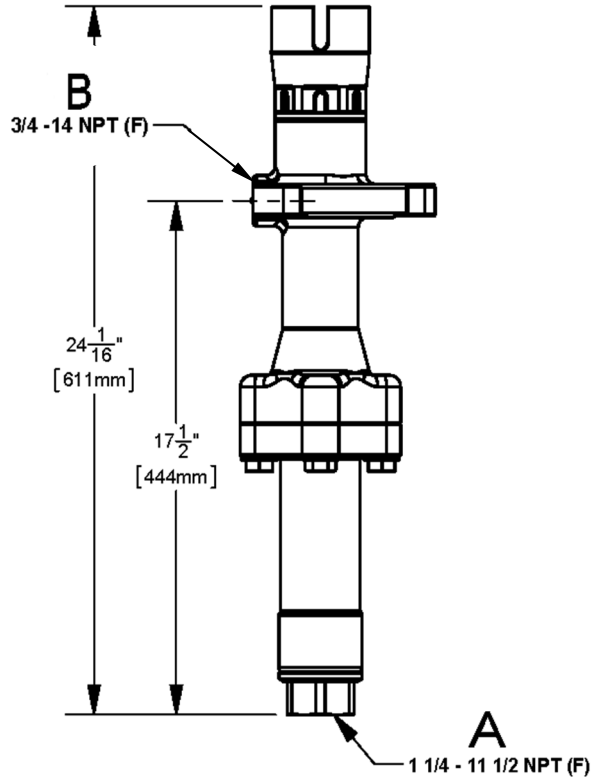
SPECIFICATION

		FX190	FX220
Output @ 60 cycles/min:		11.4 l/m [3.0 US gpm]	13.2 l/m [3.5 US gpm]
Displacement per cycle:		190 cc [6.4 oz]	220 cc [7.4 oz]
Maximum fluid pressure:		500 bar [7250 psi]	
Ambient operating temperature:		0 - 71° C [0 - 160 °F]	
Stroke length:		127mm [5 in]	
A	Inlet size:	KNOCK-OFF INLET OPTION: 1½" NPT (m)	
		HEXAGON INLET OPTION: 1¼" NPT (f)	
B	Outlet size:	¾" NPT (f)	
Weight:		20.3 kg [44.7 lbs]	
Wetted parts materials of construction (Carbon Steel models):		Nickel plated Carbon Steel, Stainless Steel, Ceramic coated Stainless Steel, PTFE, UHMWPE, Leather, Tungsten Carbide.	
Wetted parts materials of construction (Stainless Steel models):		Stainless Steel, Ceramic coated Stainless Steel, PTFE, UHMWPE, Leather, Tungsten Carbide.	

FX190 & FX220 FLUID PUMP



KNOCK-OFF INLET OPTION



HEXAGON INLET OPTION

FLUID SECTION PART NUMBER SELECTOR

FX190 PL - C A H

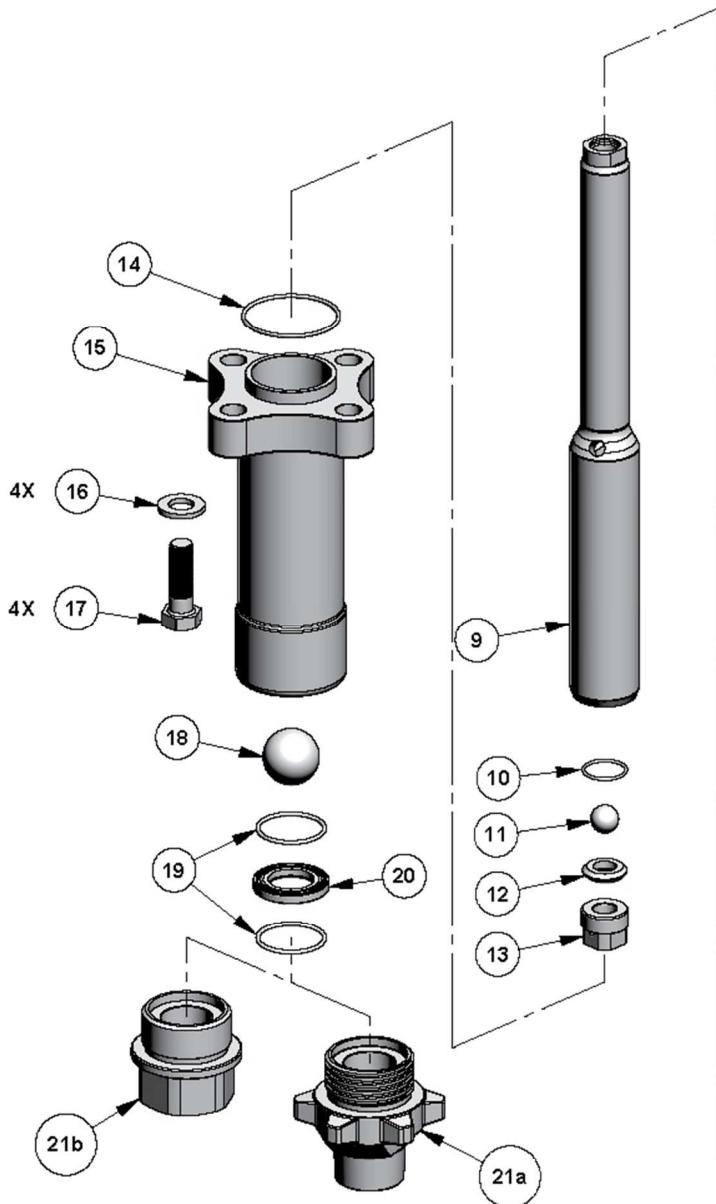
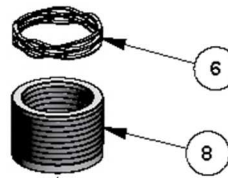
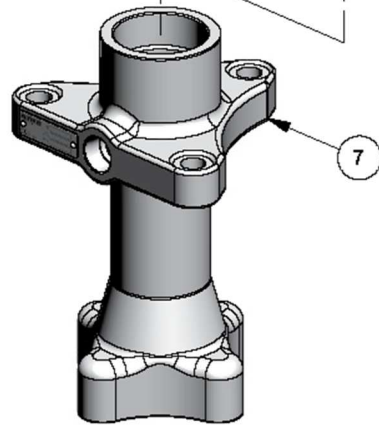
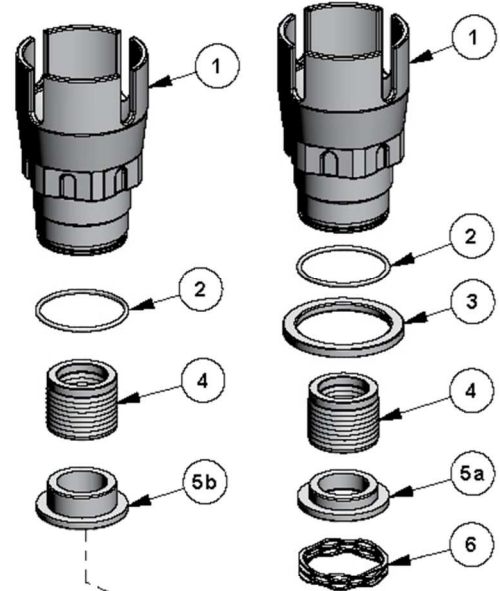
FX190 - 190 ml/CYCLE	PL - PTFE/LEATHER PP - PTFE PU - PTFE/UHMWPE	C-CARBON STEEL	A - AUTO PACKING ADJUSTMENT	K - KNOCK-OFF INLET OPTION
FX220 - 220 ml/CYCLE	UU - UHMWPE UL - UHMWPE/LEATHER	S - STAINLESS STEEL	M - MANUAL PACKING ADJUSTMENT	H - HEXAGON INLET OPTION

FX190 & FX220 FLUID PUMP

PACKING ADJUSTMENT OPTIONS

MANUAL
ADJUSTMENT

AUTOMATIC
ADJUSTMENT



HEXAGON
INLET

KNOCK OFF
INLET

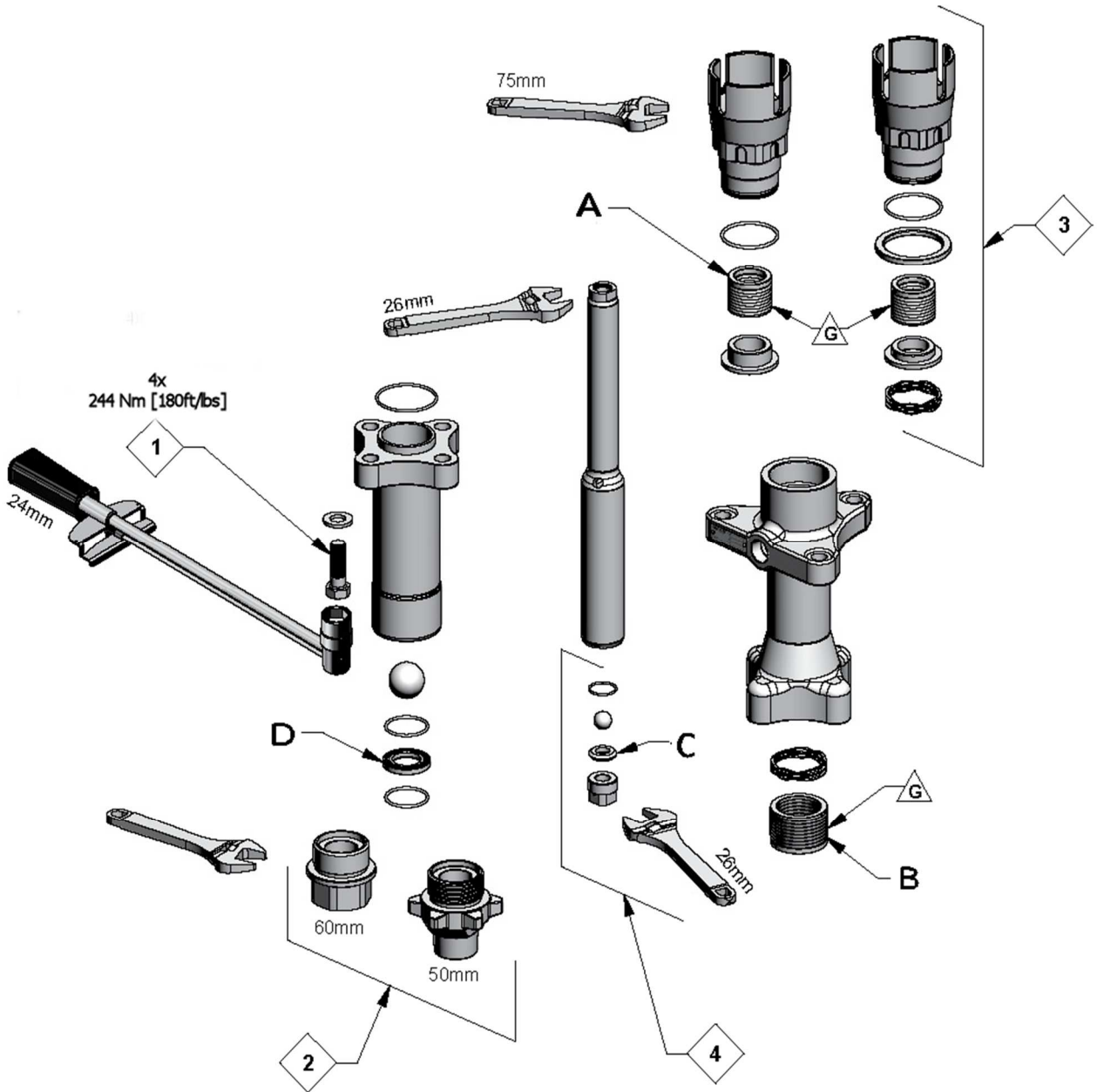
FLUID INLET OPTIONS

FX190 & FX220 FLUID PUMP




EN

ITEM NO.	PART NO.	DESCRIPTION	QTY	COMMENTS
1	193295	PACKING NUT	1	
2	162773	Ø57mm x Ø3 O-RING	1	
3	193298	PACKING SPACER	1	Auto only
4	193296	FX220UU UPPER PACKING ASSEMBLY (UHMWPE)	1	FX220 only
	193303	FX220PP UPPER PACKING ASSEMBLY (PTFE)	1	FX220 only
	193308	FX220PL UPPER PACKING ASSEMBLY (PTFE/LEATHER)	1	FX220 only
	193313	FX220PU UPPER PACKING ASSEMBLY (UHMWPE/PTFE)	1	FX220 only
	193770	FX220UL UPPER PACKING ASSEMBLY (UHMWPE/LEATHER)	1	FX220 only
	193508	FX190PU UPPER PACKING ASSEMBLY (UHMWPE/PTFE)	1	FX190 only
	193505	FX190PP UPPER PACKING ASSEMBLY (PTFE)	1	FX190 only
	193506	FX190PL UPPER PACKING ASSEMBLY (PTFE/LEATHER)	1	FX190 only
	193507	FX190UU UPPER PACKING ASSEMBLY (UHMWPE)	1	FX190 only
	193772	FX190UL UPPER PACKING ASSEMBLY (UHMWPE/LEATHER)	1	FX190 only
5a	193299	PACKING LOADER	1	Auto only
5b	193301	PACKING LOADER	1	Manual only
6	41-28038	PACKING SPRING	2	1 for Manual adj.
7	193326	UPPER HOUSING (CARBON STEEL)	1	
	193285	UPPER HOUSING (STAINLESS STEEL)	1	
8	193294	FX220L LOWER PACKING ASSEMBLY (UHMWPE)	1	FX220 only
	193305	FX220F LOWER PACKING ASSEMBLY (PTFE)	1	FX220 only
	193310	FX220F LOWER PACKING ASSEMBLY (PTFE/LEATHER)	1	FX220 only
	193314	FX220F LOWER PACKING ASSEMBLY (UHMWPE/PTFE)	1	FX220 only
	193771	FX220L LOWER PACKING ASSEMBLY (UHMWPE/LEATHER)	1	FX220 only
	193501	FX190F LOWER PACKING ASSEMBLY (PTFE)	1	FX190 only
	193503	FX190L LOWER PACKING ASSEMBLY (UHMWPE)	1	FX190 only
	193504	FX190F LOWER PACKING ASSEMBLY (UHMWPE/PTFE)	1	FX190 only
	193502	FX190F LOWER PACKING ASSEMBLY (PTFE/LEATHER)	1	FX190 only
	193773	FX190L LOWER PACKING ASSEMBLY (UHMWPE/LEATHER)	1	FX190 only
9	193287	FX220 PUMP ROD	1	FX220 only
	193500	FX190 PUMP ROD	1	FX190 only
10	162770	Ø27mm x 2 O-RING	1	
11	171790	Ø¾" BALL	1	
12	193288	Ø¾" BALL SEAT	1	
13	193289	SEAT RETAINER	1	
14	162772	Ø62mm x Ø2.5 O-RING	1	
15	193327	LOWER HOUSING (CARBON STEEL)	1	
	193286	LOWER HOUSING (STAINLESS STEEL)	1	
16	165097	M16 WASHER	4	
17	165369	M16 x 50mm HEX HEAD CAP SCREW	4	
18	191791	Ø1½" BALL	1	
19	162771	2-131 O-RING	2	
20	193290	Ø1½" SEAT ASSEMBLY	1	
21a	193334	FLUID INLET (KNOCK-OFF)	1	
21b	193468	FLUID INLET (HEXAGON)	1	

FX190 & FX220 FLUID PUMP ASSEMBLIES



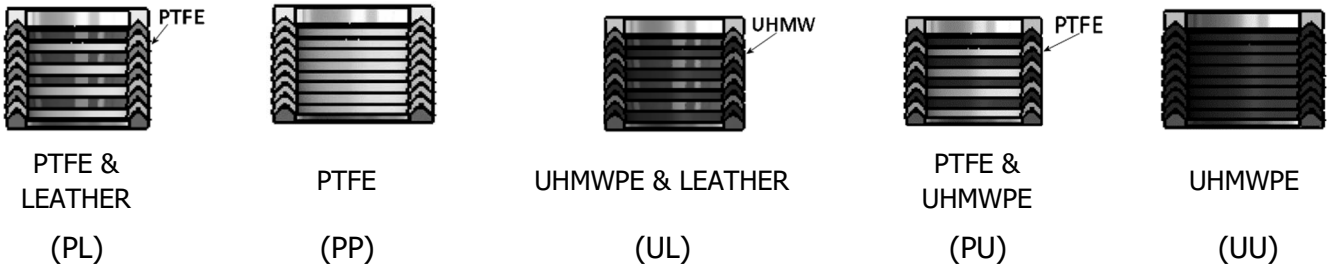
MAINTENANCE SYMBOLS:

-  = ITEM NUMBER
-  = MAINTENANCE ORDER
Reverse for assembly
-  = GREASE - P/N: AGMD-010

FX190 & FX220 FLUID PUMP ASSEMBLIES

DETAIL "A"

UPPER PACKING ORIENTATIONS



DETAIL "B"

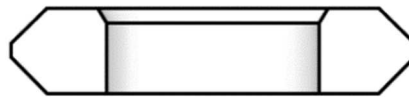
LOWER PACKING ORIENTATIONS



ASSEMBLY NOTE: LIGHTLY APPLY GREASE TO PACKINGS BEFORE INSERTING INTO PUMP

DETAIL "C"

UPPER BALL SEAT ORIENTATION



NOTE: SEAT IS REVERSIBLE

DETAIL "D"

LOWER BALL SEAT ORIENTATION



NOTE: SEAT IS REVERSIBLE

FX190/220 BALL AND SEAL KITS

ITEM NO.	PART NO.	DESCRIPTION	250692	250693
			Upper ball & seat	Lower ball & seat
11	171790	Ø¾" BALL	1	
12	193288	Ø¾" BALL SEAT	1	
18	191791	Ø1½" BALL		1
20	193290	Ø1½" SEAT ASSEMBLY		1

Recommended grease: AGMD-011

Recommended packing lubricants: 0114-009433 for Solvent based materials
 (500mL) 0114-014871 for Water based materials

FX220 SEAL KITS

250658 250659 250666 250667 250688

ITEM NO.	PART NO.	DESCRIPTION	PTFE/LEATHER - Seal Kit	PTFE/UHMWPE - Seal Kit	PTFE - Seal Kit	UHMWPE - Seal Kit	UHMWPE/LEATHER - Seal Kit
2	162773	Ø57mm x Ø3 O-RING	1	1	1	1	1
4	193296	FX220UU UPPER PACKING ASSEMBLY (UHMWPE)				1	
	193303	FX220PP UPPER PACKING ASSEMBLY (PTFE)			1		
	193308	FX220PL UPPER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193313	FX220PU UPPER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193770	FX220UL UPPER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
8	193294	FX220UU LOWER PACKING ASSEMBLY (UHMWPE)				1	
	193305	FX220PP LOWER PACKING ASSEMBLY (PTFE)			1		
	193310	FX220PL LOWER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193314	FX220PU LOWER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193771	FX220UL LOWER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
10	162770	Ø27mm x Ø2 O-RING	1	1	1	1	1
14	162772	Ø62mm x Ø2.5 O-RING	1	1	1	1	1
19	162771	2-131 O-RING	2	2	2	2	2

FX220 REPAIR KITS

250660 250661 250668 250669 250689

ITEM NO.	PART NO.	DESCRIPTION					
			PTFE/LEATHER - Rebuild Kit	PTFE/UHMWPE - Rebuild Kit	PTFE - Rebuild Kit	UHMWPE - Rebuild Kit	UHMWPE/LEATHER - Rebuild Kit
2	162773	Ø57mm x Ø3 O-RING	1	1	1	1	1
4	193296	FX220UU UPPER PACKING ASSEMBLY (UHMWPE)				1	
	193303	FX220PP UPPER PACKING ASSEMBLY (PTFE)			1		
	193308	FX220PL UPPER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193313	FX220PU UPPER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193770	FX220UL UPPER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
8	193294	FX220UU LOWER PACKING ASSEMBLY (UHMWPE)				1	
	193305	FX220PP LOWER PACKING ASSEMBLY (PTFE)			1		
	193310	FX220PL LOWER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193314	FX220PU LOWER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193771	FX220UL LOWER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
10	162770	Ø27mm x Ø2 O-RING	1	1	1	1	1
11	171790	Ø¾" BALL	1	1	1	1	1
12	193288	Ø¾" BALL SEAT	1	1	1	1	1
14	162772	Ø62mm x Ø2.5 O-RING	1	1	1	1	1
18	191791	Ø1½" BALL	1	1	1	1	1
19	162771	2-131 O-RING	2	2	2	2	2
20	193290	Ø1½" SEAT ASSEMBLY	1	1	1	1	1

FX190 SEAL KITS

ITEM NO.	PART NO.	DESCRIPTION	250662	250663	250670	250671	250690
			PTFE/LEATHER - Seal Kit	PTFE/UHMWPE - Seal Kit	PTFE - Seal Kit	UHMWPE - Seal Kit	UHMWPE/LEATHER - Seal Kit
2	162773	Ø57mm x Ø3 O-RING	1	1	1	1	1
4	193505	FX190PP UPPER PACKING ASSEMBLY (PTFE)			1		
	193506	FX190PL UPPER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193507	FX190UU UPPER PACKING ASSEMBLY (UHMWPE)				1	
	193508	FX190PU UPPER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193372	FX190UL UPPER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
8	193501	FX190PP LOWER PACKING ASSEMBLY (PTFE)			1		
	193502	FX190PL LOWER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193503	FX190UU LOWER PACKING ASSEMBLY (UHMWPE)				1	
	193504	FX190PU LOWER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193773	FX190UL LOWER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
10	162770	Ø27mm x Ø2 O-RING	1	1	1	1	1
14	162772	Ø62mm x Ø2.5 O-RING	1	1	1	1	1
19	162771	2-131 O-RING	2	2	2	2	2

FX190 REPAIR KITS

250664 250665 250672 250673 250691

ITEM NO.	PART NO.	DESCRIPTION	PTFE/LEATHER - Seal Kit	PTFE/UHMWPE - Seal Kit	PTFE - Seal Kit	UHMWPE - Seal Kit	UHMWPE/LEATHER - Seal Kit
2	162773	Ø57mm x Ø3 O-RING	1	1	1	1	1
4	193505	FX190PP UPPER PACKING ASSEMBLY (PTFE)			1		
	193506	FX190PL UPPER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193507	FX190UU UPPER PACKING ASSEMBLY (UHMWPE)				1	
	193508	FX190PU UPPER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193372	FX190UL UPPER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
8	193501	FX190PP LOWER PACKING ASSEMBLY (PTFE)			1		
	193502	FX190PL LOWER PACKING ASSEMBLY (PTFE/LEATHER)	1				
	193503	FX190UU LOWER PACKING ASSEMBLY (UHMWPE)				1	
	193504	FX190PU LOWER PACKING ASSEMBLY (PTFE/UHMWPE)		1			
	193773	FX190UL LOWER PACKING ASSEMBLY (UHMWPE/LEATHER)					1
10	162770	Ø27mm x Ø2 O-RING	1	1	1	1	1
11	171790	Ø¾" BALL	1	1	1	1	1
12	193288	Ø¾" BALL SEAT	1	1	1	1	1
14	162772	Ø62mm x Ø2.5 O-RING	1	1	1	1	1
18	191791	Ø1½" BALL	1	1	1	1	1
19	162771	2-131 O-RING	2	2	2	2	2
20	193290	Ø1½" SEAT ASSEMBLY	1	1	1	1	1

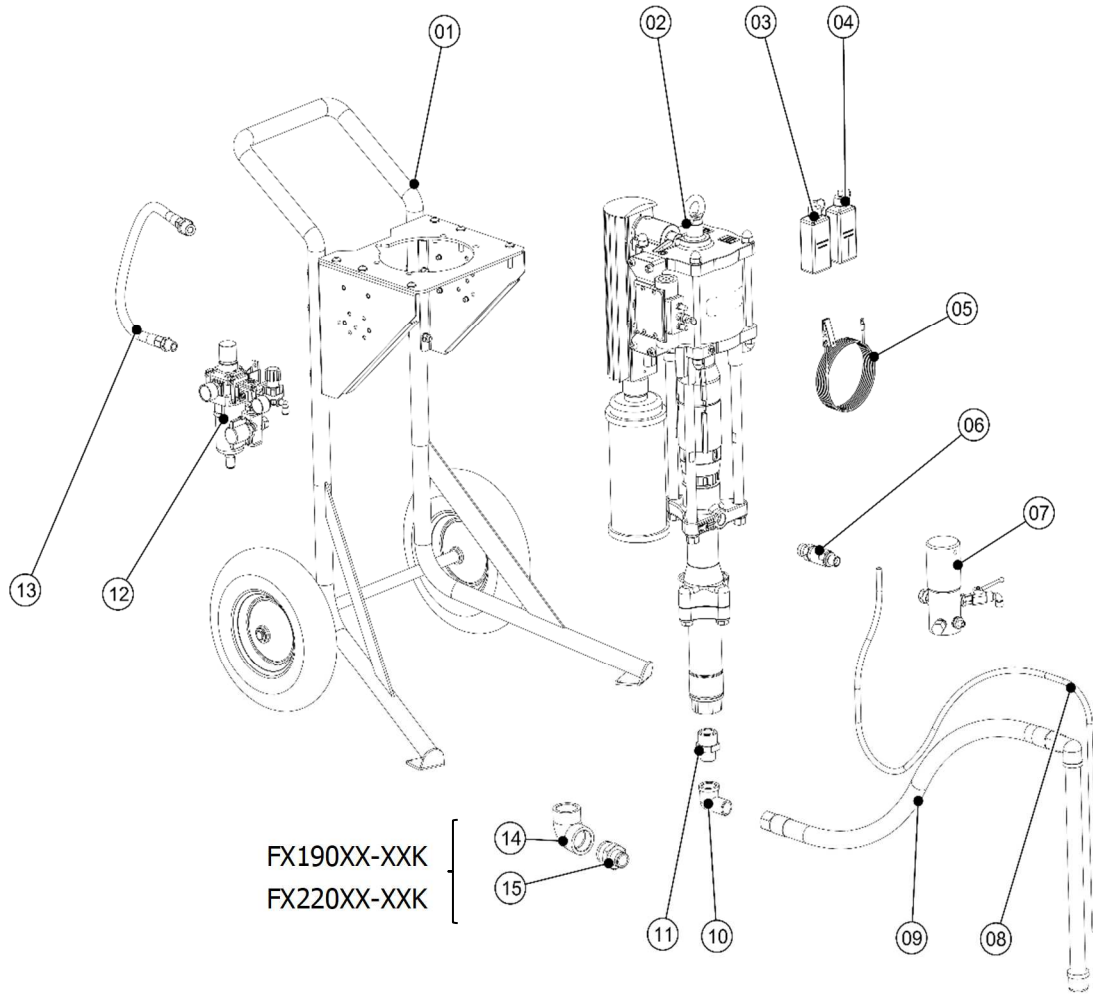
TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	REMEDY
Material in solvent cup	Worn or dirty upper packings.	Replace or Clean
Pump does not stop on the down stroke	Worn or dirty lower ball check.	Replace or Clean
Pump does not stop on the up stroke	Worn or dirty upper ball check.	
	Worn or dirty lower packings.	
Pump runs erratically	Blocked material suction kit.	Replace or Clean
	Blocked inlet filter or strainer.	Replace or Clean
	Low material level.	Replace or Clean
	Worn or dirty lower ball check.	Replace or Clean
	Worn or dirty upper ball check.	

Packing Recommendation

Packing Material	Recommendation
PU (PTFE & UHMWPE)	Most materials
PL (PTFE & Leather)	High temperature applications
PP (PTFE)	UV and acid based materials

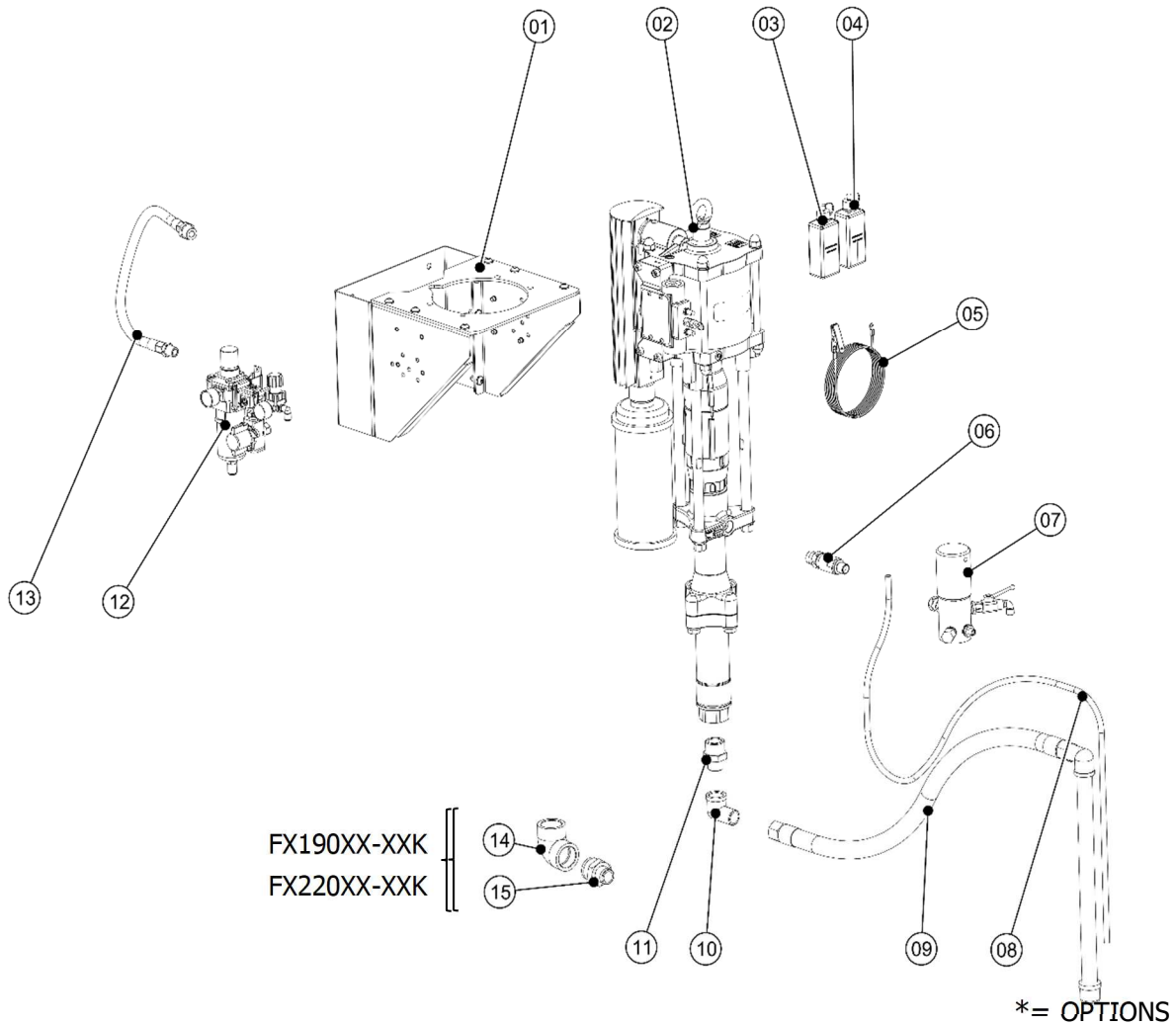
MX19042 & MX22036 CART MOUNTED PUMP



*= OPTIONS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	104136	CART	1
2	MX____-__	MX19042/22036 PUMP	1
3	0114-016099	0.25l LUBRICATION-SOLVENT BASED	1
4	0114-016100	0.25l LUBRICATION-WATER BASED	1
5	0114-011798	4m Grounding cable	1
6	193791	CHECK VALVE	1
7	0114-011760	HP FILTER (100 mesh) TYPE 11	1
8	0110-009103	DUMP HOSE	2M
9	MXA-S25ME30	SUCTION HOSE ASSEMBLY 25 LITRE - 30 MESH	1
	MXA-S210ME30	SUCTION HOSE ASSEMBLY 210 LITRE - 30 MESH	1*
10	193679	1" ELBOW	1
11	193672	1-1/4" - 1" ADAPTER	1
12	MXA-C13ALM5	AIR FILTER 5µm + 1 REGULATOR	1*
	MXA-C13ACM5	AIR FILTER 5µm + 2 REGULATORS	1
13	193669	AIR HOSE	1
14	194224	1 1/2" ELBOW	1
15	194225	1 1/2" - 1 NIPPLE	1

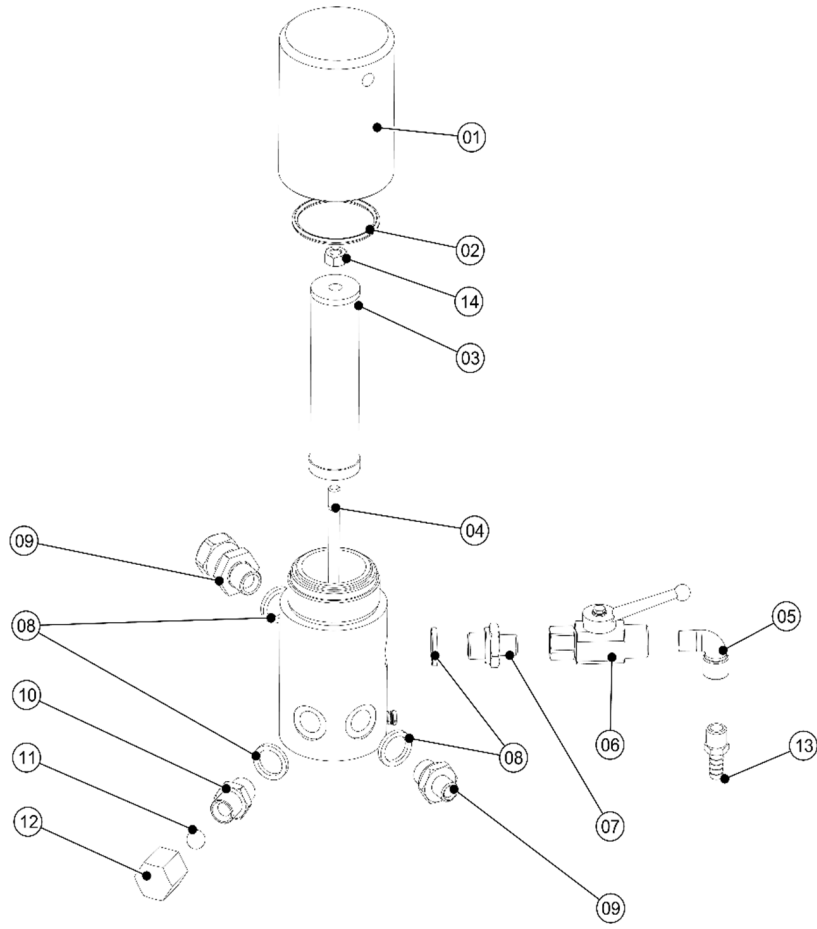
MX19042 & MX22036 WALL MOUNTED PUMP



ITEM	PART NUMBER	DESCRIPTION	QTY
1	104116	WALL BRACKET	1
2	MX____-__	MX19042/22036 PUMP	1
3	0114-016099	0.25l LUBRICATION-SOLVENT BASED	1
4	0114-016100	0.25l LUBRICATION-WATER BASED	1
5	0114-011798	4m Grounding cable	1
6	193791	CHECK VALVE	1
7	0114-011760	HP FILTER (100 mesh) TYPE 11	1
8	0110-009103	DUMP HOSE	2M
9	MXA-S25ME30	SUCTION HOSE ASSEMBLY 25 LITRE - 30 MESH	1
	MXA-S210ME30	SUCTION HOSE ASSEMBLY 210 LITRE - 30 MESH	1*
10	193679	1" ELBOW	1
11	193672	1-1/4" - 1" ADAPTER	1
12	MXA-C13ALM5	AIR FILTER 5µm + 1 REGULATOR	1*
	MXA-C13ACM5	AIR FILTER 5µm + 2 REGULATORS	1
13	193669	AIR HOSE	1
14	194224	1 1/2" ELBOW	1
15	194225	1 1/2" - 1" NIPPLE	1

ACCESSORIES

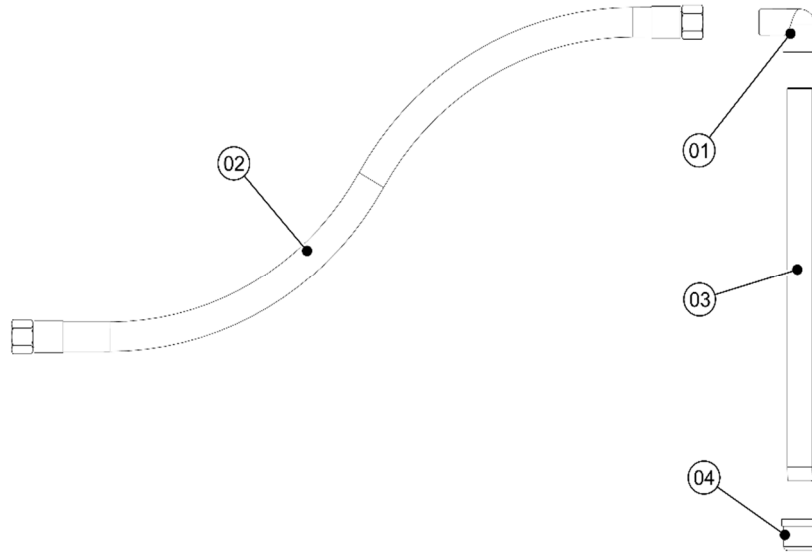
0114-011760 TYPE 11 FILTER



ITEM	PART NO.	DESCRIPTION	QTY
1	0114-013848	FILTER CAP	1
2	0114-013850	SEAL	1
3	0114-014917	FILTER SCREEN 30 MESH (BLUE)	1
	0114-014886	FILTER SCREEN 50 MESH (ORANGE)	
	0114-014884	FILTER SCREEN 70 MESH (YELLOW)	
	0114-014883	FILTER SCREEN 100 MESH (BLACK) STANDARD	
	0114-014882	FILTER SCREEN 150 MESH (RED)	
	0114-014881	FILTER SCREEN 200 MESH (NATURAL)	
4	0114-013849	THREADED BOLT	1
5	0114-014085	ELBOW	1
6	0114-014087	BALL VALVE	1
7	0114-013855	NIPPLE	1
8	0114-013952	SEALING RING	4
9	0114-013638	ADAPTER 3/8" (M) x M22x1.5 (F)	1
10	0114-013780	NIPPLE	1
11	0114-014023	BALL	1
12	0114-013799	DOME NUT	1
13	0114-019985	HOSE CONNECTOR	1
14	0114-014546	NUT	1

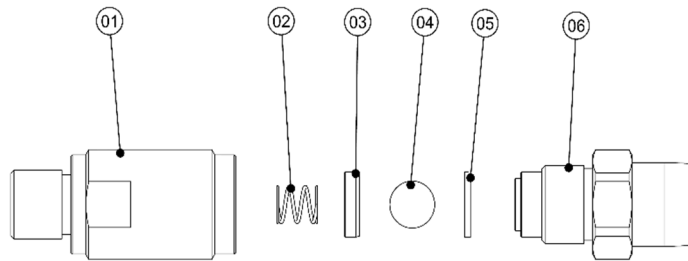
ACCESSORIES

MXA-S25ME30 & MXA-S210ME30 SUCTION HOSE ASSEMBLIES



ITEM	PART NO.	DESCRIPTION	QTY
1	193679	1" ELBOW	1
2	193673	HOSE 1" BSP x 1m LG (25L)	1
	193674	HOSE 1" BSP x 2m LG (210L)	1
3	0114-013767	1" TUBE x 0.5m LG (25L)	1
	193675	1" TUBE x 1m LG (210L)	1
4	193671	FILTER 30 MESH	1

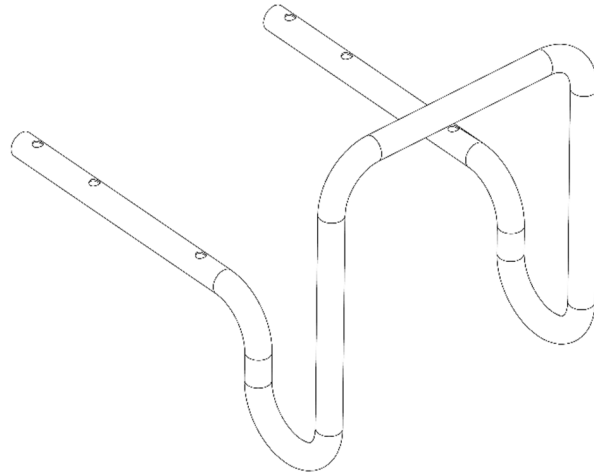
193791 CHECK VALVE



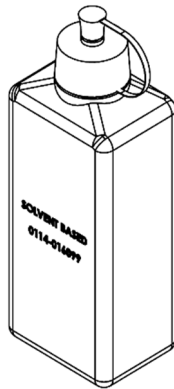
ITEM	PART NO.	DESCRIPTION	QTY
1	193792	VALVE BODY	1
2	193795	SPRING	1
3	0114-014056	SEAT	1
4	0114-014237	Ø15 BALL	1
5	193794	SEAL	1
6	193793	NIPPLE	1

ACCESSORIES

**193381
HOSE BRACKET**



PUMP LUBRICATION



ITEM	PART NO.	DESCRIPTION	QTY
1	0114-016099	0.25l LUBRICATION-SOLVENT BASED	1
2	0114-016100	0.25l LUBRICATION-WATER BASED	1
3	0114-014871	0.5l LUBRICATION-WATER BASED	1
4	0114-009433	0.5l LUBRICATION-SOLVENT BASED	1

NOTES

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.

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WARRANTY PAGE



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