LMAG PNEUMATIC PUMP FOR CENTRALIZED LUBRICATION SYSTEMS

READY FOR IMMEDIATE SHIPMENT

MADE IN

LMAG PNEUMATIC PUMP FOR CENTRALIZED LUBRICATION SYSTEMS

PRODUCT DESCRIPTION

PERFECT FOR SMALLER INJECTOR SYSTEMS (LSL-32: UP TO 150 INJECTORS AND LSL-1: UP TO 25 INJECTORS)

PRODUCES GREATER OUTPUT PER STROKE THAN COMPETITIVE MODELS

NO PRESSURE SWITCH NEEDED - VENT VALVE AUTOMATICALLY AND EFFICIENTLY RELIEVES PRESSURE ON EVERY RETURN STROKE

OPTIONAL LOW LEVEL READY UPON REQUEST

BUILT WITH HIGH QUALITY MATERIAL TO WITHSTAND THE HARSHEST ENVIRONMENTS

BENEFITS & FEATURES

PNEUMATIC POWER FOR EASY INSTALL INTO EXISTING AIR LINES

DELIVERS ACCURATE, RELIABLE LUBRICATION FOR EVERY LUBE POINT

HIGHER LUBE OUTPUT AND FASTER LUBRICATION CYCLE RATE

DURABLE SHATTER PROOF RESERVOIR

SIMPLIFIED INSTALLATION USING EXISTING MOUNTING HOLES

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READY FOR IMMEDIATE SHIPMENT

MADE IN

LMAG PNEUMATIC PUMP

LMAG GREASE PUMP	PART NUMBER
LMAG, BARE INJECTOR PUMP, NO RESERVOIR	LMAG-001

MANUFACTURED WITH STEEL AND ALUMINUM COMPONENTS AND ARE AVAILABLE FOR EITHER OIL OR GREASE APPLICATIONS. LMAG PUMPS ARE CUSTOMIZABLE FOR A WIDE VARIETY OF APPLICATIONS. TRUST LUBRICATION SCIENTIFICS INDUSTRY LEADING STANDARDS OF QUALITY

FLUIDS / TECHNICAL DATA

- OIL AND GREASE
- PUMP OUTPUT: 2.5 CU IN / 41 CC PER STROKE
- MIN AIR PRESSURE 50PSI / 3 BAR / MAX AIR PRESSURE 140PSI / 9 BAR
- AIR RATIO: 25:1
- MAXIMUM OPERATING PRESSURE: 3500PSI / 241 BAR
- RESERVOIR CAPACITIES: 6 PINT / 2.84 LITER, 6LB / 2.72KG, 12 PINT / 5.68 LITER, 12LB / 5.44KG, 20 PINT / 9.46 LITER, AND 20LB / 9.06KG

APPLICATIONS

- PACKAGING
- AUTOMATION MACHINERY
- PAPER PRODUCTION
- PRESSES
- TIRE PRODUCTION
- LABELERS
- INJECTION MOLDING
- MANUFACTURING
- THERMOFORMING

LMAG-001
BARE PUMP, NO RESERVOIR

LMAG PNEUMATIC PUMP (GREASE)

LMAG GREASE PUMP & RESERVOIR DESCRIPTION	PART NUMBER
LMAG PUMP WITH 6PT GREASE RESERVOIR	LMAG-001-06G
LMAG PUMP WITH 12PT GREASE RESERVOIR	LMAG-001-12G
LMAG PUMP WITH 20PT GREASE RESERVOIR	LMAG-001-20G
LMAG PUMP WITH 6PT GREASE RESERVOIR W/ LOW LEVEL	LMAG-001-06GLL
LMAG PUMP WITH 12PT GREASE RESERVOIR W/ LOW LEVEL	LMAG-001-12GLL
LMAG PUMP WITH 20PT GREASE RESERVOIR W/ LOW LEVEL	LMAG-001-20GLL

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FLUIDS / TECHNICAL DATA

- GREASE
- PUMP OUTPUT: 2.5 CU IN / 2.6 CC PER STROKE
- MIN AIR PRESSURE 50PSI / 3 BAR / MAX AIR PRESSURE 140PSI / 9 BAR
- AIR RATIO: 25:1
- MAXIMUM OPERATING PRESSURE: 3500PSI / 241 BAR
- RESERVOIR CAPACITIES: 6 PINT / 2.84 LITER, 6LB / 2.72KG,
  12 PINT / 5.68 LITER, 12LB / 5.44KG,
  20 PINT / 9.46 LITER, AND 20LB / 9.06KG

APPLICATIONS

- PACKAGING
- AUTOMATION MACHINERY
- PAPER PRODUCTION
- PRESSES
- TIRE PRODUCTION
- LABELERS
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- MANUFACTURING
- THERMOFORMING

LMAG-001-06G
LMAG WITH 6LB GREASE RESERVOIR, NO LOW LEVEL

LMAG PNEUMATIC PUMP (OIL)

LMAG OIL PUMP & RESERVOIR DESCRIPTION	PART NUMBER
LMAG PUMP WITH 6PT OIL RESERVOIR	LMAG-001-06O
LMAG PUMP WITH 12PT OIL RESERVOIR	LMAG-001-12O
LMAG PUMP WITH 20PT OIL RESERVOIR	LMAG-001-20O
LMAG PUMP WITH 6PT OIL RESERVOIR W/ LOW LEVEL	LMAG-001-06OLL
LMAG PUMP WITH 12PT OIL RESERVOIR W/ LOW LEVEL	LMAG-001-12OLL
LMAG PUMP WITH 20PT OIL RESERVOIR W/ LOW LEVEL	LMAG-001-20OLL

MANUFACTURED WITH STEEL AND ALUMINUM COMPONENTS AND ARE AVAILABLE FOR EITHER OIL OR GREASE APPLICATIONS. LMAG PUMPS ARE CUSTOMIZABLE FOR A WIDE VARIETY OF APPLICATIONS. TRUST LUBRICATION SCIENTIFICS INDUSTRY LEADING STANDARDS OF QUALITY AND DURABILITY.

FLUIDS / TECHNICAL DATA

- OIL
- PUMP OUTPUT: 2.5 CU IN / 2.6 CC PER STROKE
- MIN AIR PRESSURE 50PSI / 3 BAR / MAX AIR PRESSURE 140PSI / 9 BAR
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APPLICATIONS

- PACKAGING
- AUTOMATION MACHINERY
- PAPER PRODUCTION
- PRESSES
- TIRE PRODUCTION
- LABELERS
- INJECTION MOLDING
- MANUFACTURING
- THERMOFORMING

LMAG-001-06PT
LMAG WITH 6PT OIL RESERVOIR, NO LOW LEVEL

LMAG INSTALLATION INSTRUCTIONS

AIR/FLUID LINES

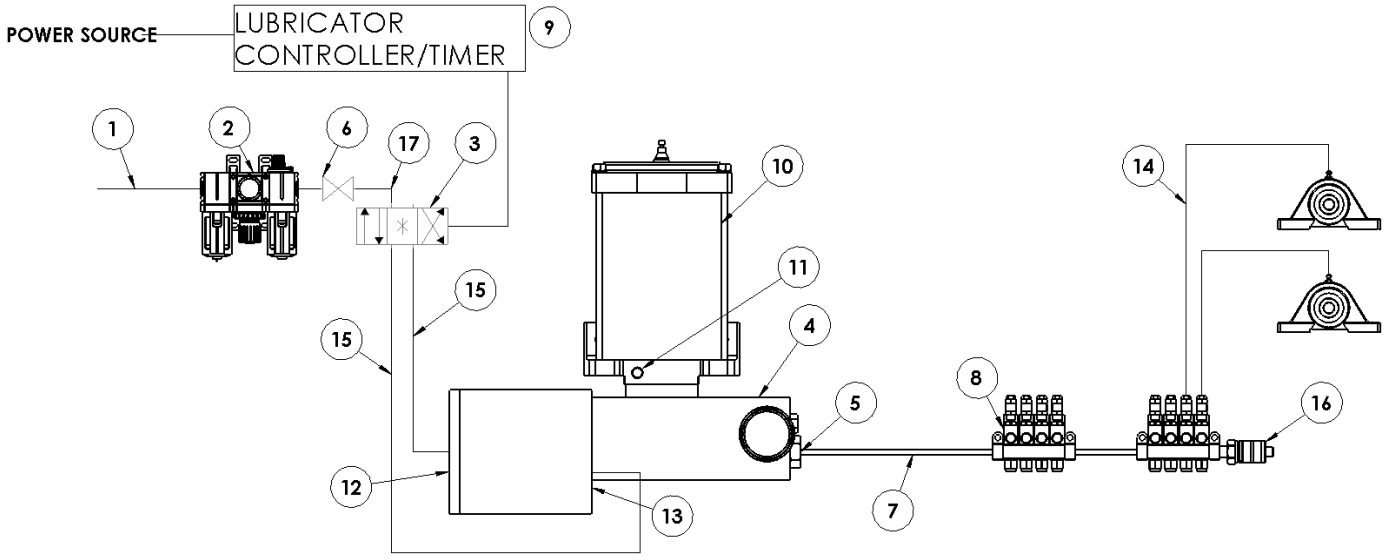
1. INSTALL THE AIRLINE ACCESSORIES IN ORDER AS SHOWN ON LMAG-TYP-INSTALL.
2. AN AIR BLEED VALVE (6) IS USEFUL TO BLEED TRAPPED AIR BETWEEN PUMP AND AIR INLET.
3. AN AIR LINE FILTER IS CRITICAL AND NECESSARY TO REMOVE DAMAGING CONTAMINATION AND MOISTURE FROM COMPRESSED AIR
4. REGULATOR IS NECESSARY TO REGULATE CORRECT AIR PRESSURE TO SYSTEM: PRESSURE RATIO 25:1 (MAX 140 PSI).
5. INSTALL LP-FR01 ORIFICE FLOW RESTRICTOR IN THE PNEUMATIC SOLENOID VALVE INLET.

FILL RESERVOIR

1. LOCATE PUMP RESERVOIR FILL PORT/STUD (11).
2. CONNECT QUICK CONNECT FITTING FROM FILL PUMP TO THE FILL PORT.
3. SLOWLY FILL RESERVOIR ALLOWING THE FOLLOWER PLATE TO LIFE ABOVE THE RESERVOIR VENT HOLE EXPELLING EN-TRAPPED AIR.

PRIMING

1. PRIME PUMP BEFORE CONNECTING PUMP TO SUPPLY LINE AND SYSTEM.
2. FOR PROPER PRIMIMG OF PUMP MAKE SURE RESERVOIR IS COMPLETELY FILLED. FAILING TO COMPLETELY FILL RESERVOIR CAN RESULT IN TRAPPED AIR IN THE PUMP AND SYSTEM.
3. RUN PUMP UNTIL GREASE COMES OUT OF OUTLET AND IS FREE OF AIR BUBBLES.
4. IT MAY TAKE 15 OR MORE PUMP STROKES TO SUCCESSFULLY PRIME PUMP DEPENDING ON VISCOSITY OF LUBRICANT AND TEMPERATURE.
5. ON/OFF TIME FOR FORWARD AND RETURN STROKE SHOULD BE 5 SECONDS.
6. FILL ALL LINES WITH LUBRICANT BEFORE CONNECTING TO ANY BEARING POINTS AND OUTLETS.



1. MAIN AIR SUPPLY	7. HIGH PRESSURE LUBRICATION SUPPLY LINES	13. PUMP AIR INLET—RETURN STROKE
2. FILTER/REGULATOR/LUBRICATOR ASSEMBLY	8. INJECTOR	14. BEARING FEED LINES
3. AIR SOLENOID (4-WAY)	9. LUBRICATOR CONTROLLER	15. AIR SUPPLY LINES
4. PUMP	10. PUMP RESERVOIR	16. PRESSURE SWITCH
5. PUMP OUTLET	11. PUMP RESERVOIR FILL PORT	17. ORIFICE FLOW RESTRICTOR
6. AIR BLEED VALVE	12. PUMP AIR INLET—FORWARD STROKE	

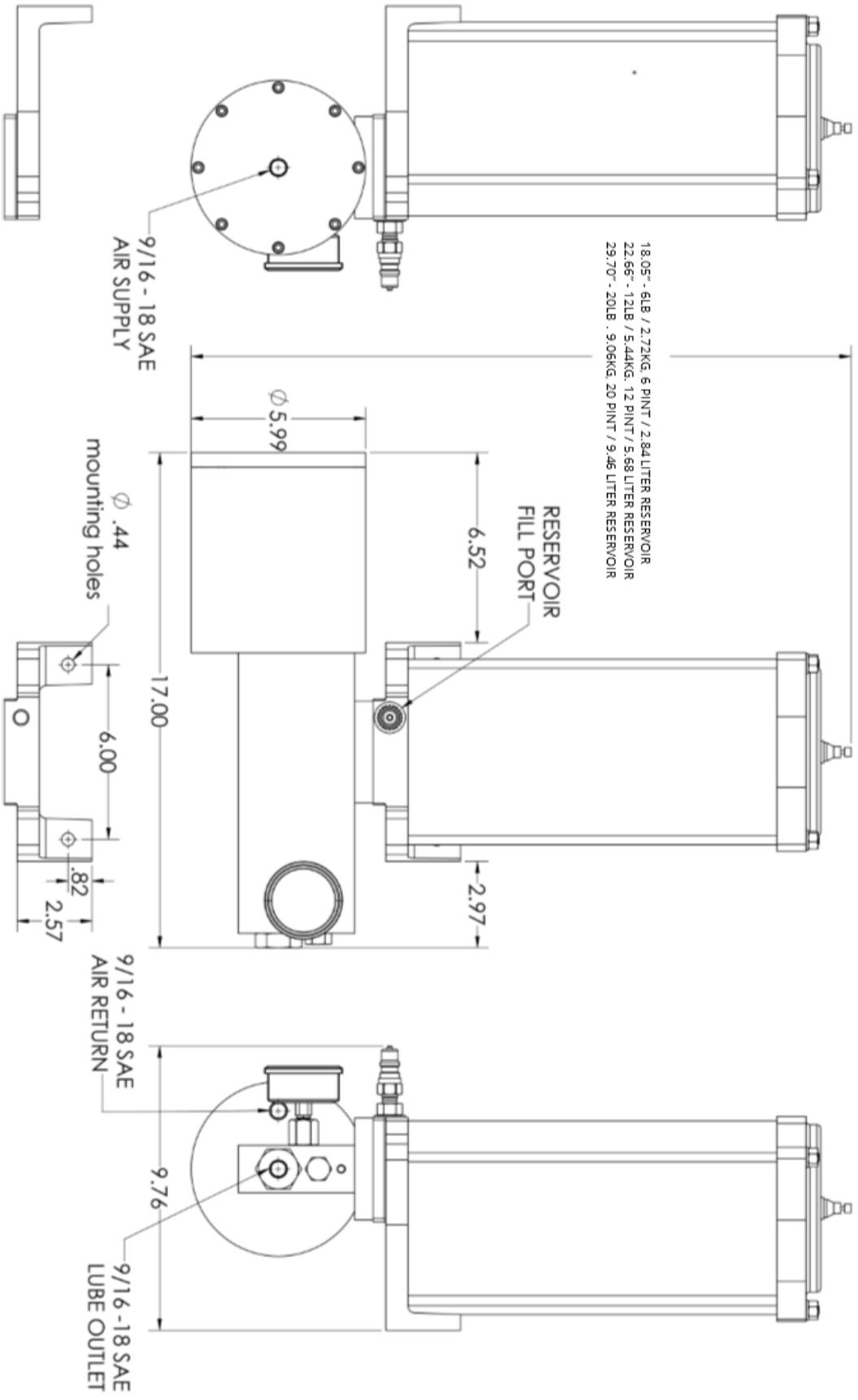
LUBRICANT OUTPUT AND PRESSURE

1	2	3	4		5		6	
INJECTOR TYPE	MAX INJECTOR OUTPUT CU. IN.	MAX PUMP LUBRICANT OUTPUT/ STROKE CU. IN.	MINIMUM PRESSURE **50 PSI**		MAXIMUM PRESSURE **140 PSI**		RECOMMENDED PRESSURE **80-100 PSI**	
			OUTPUT PSI	REQUIRED AIR PSI	OUTPUT PSI	REQUIRED AIR PSI	OUTPUT PSI	REQUIRED AIR PSI
LSL-1	0.080	2.5	1850	74	3500	140	2500	100
LSL-32	0.012		1200	50			1500	60

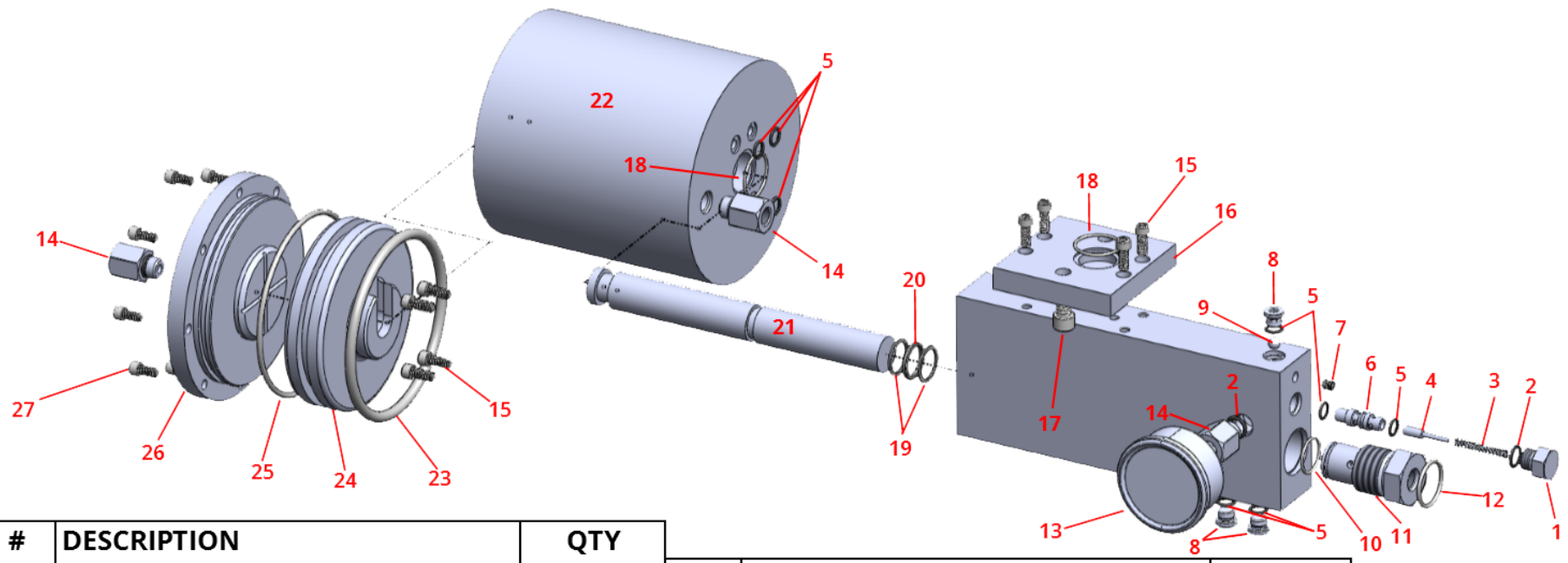
TECHNICAL DATA

SINGLE STROKE GREASE PUMP		
	US	**METRIC**
MAXIMUM FLUID WORKING PRESSURE	3500 PSI	241 BAR
PRESSURE RATIO	25:1	
PUMP OUTPUT	2.5 CU. IN./STROKE	
RESERVOIR CAPACITY GREASE	6LBS, 12LBS, 20LBS	
RESERVOIR CAPACITY OIL	6 PINTS , 12 PINTS, 20 PINTS	
MINIMUM AIR PRESSURE	50 PSI	3.4 BAR
MAX AIR INLET PRESSURE	140 PSI	9.6 BAR
AIR INLET SIZE	1/4 IN. NPT(F) - 1/4 NPSF	
MINIMUM CFM TO FUNCTION	40 CFM, 4 WAY SOLENOID MUST HAVE MIN. CV OF .7 @ 100 PSI	
FLUID OUTLET SIZE	3/4 IN. NPT(F) - 1/4 NPSF - 3/8 NPSF	

LMAG PUMP DIMENSIONS



LMAG ASSEMBLY INSTRUCTIONS



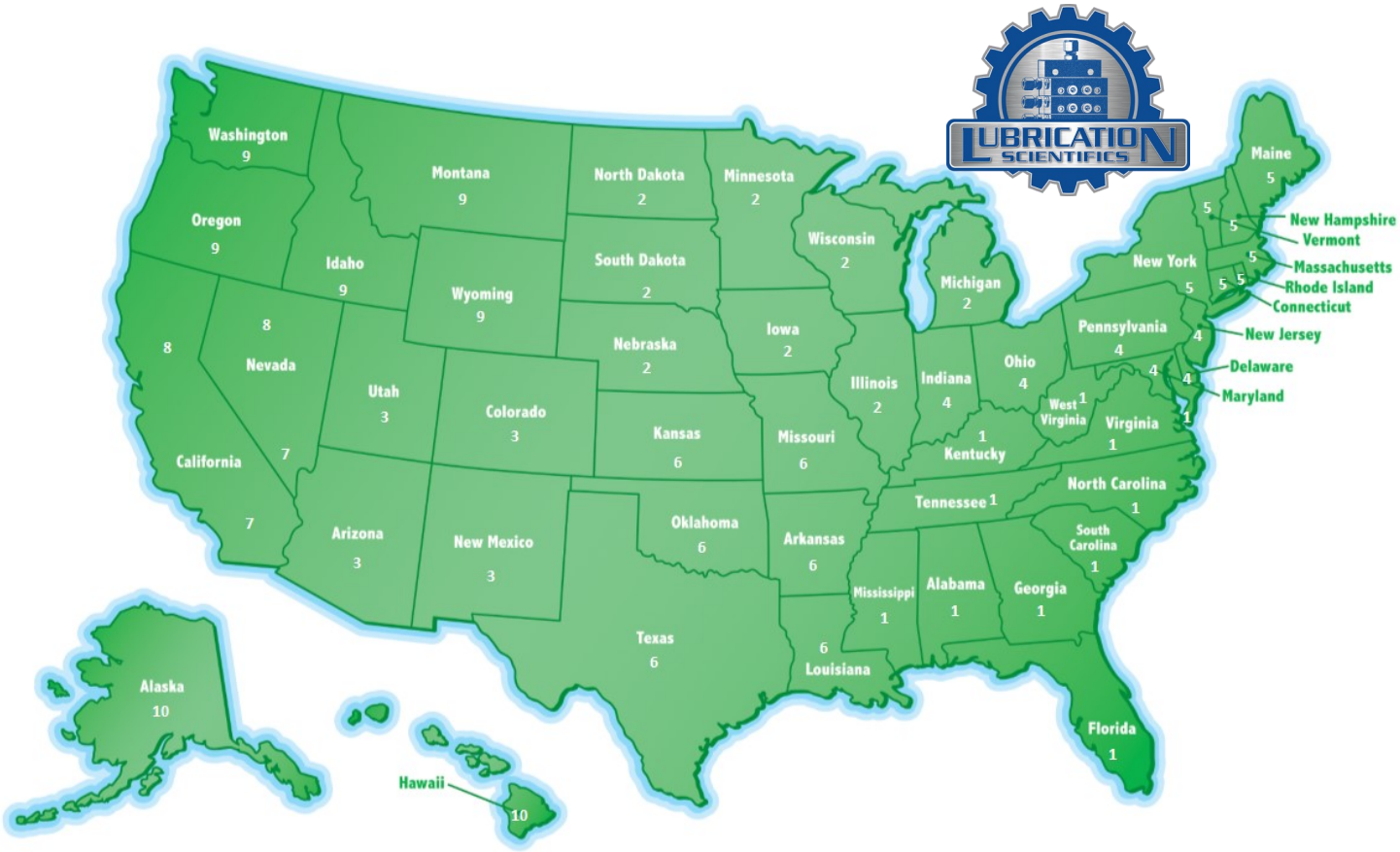
#	DESCRIPTION	QTY
1	VENT SLEEVE RETAINER	1
2	-906 VITON ORING	4
3	VENT PISTON SPRING	1
4	VENT PISTON	1
5	-012 90 DURO VITON O-RING	7
6	VENT SLEEVE	1
7	KOENIG	1
8	PLUG	3
9	5/16" 316 SS BALL	1
10	-020 VITON O-RING	1
11	OUTLET ADAPTER	1
12	-122 VITON O-RING	1
13	GAUGE	1
14	9/16-18 X 1/4 NPSF ADAPTER	3

#	DESCRIPTION	QTY
15	1/4-28 X 5/8 SOCKET HEAD CAP SCREW	8
16	ADAPTER PLATE	1
17	3/8 - 16 X 5/8 SOCKET HEAD CAP SCREW	2
18	-024 VITON O-RING	2
19	BACK UP RING	2
20	QUAD RING	1
21	LUBE PISTON	1
22	CYLINDER	1
23	-425 VITON O-RING	1
24	PNEUMATIC PISTON	1
25	-248 VITON O-RING	1
26	END CAP	1
27	1/4 - 20 X 1/2 SOCKET HEAD CAP SCREW	8

NOTES

CONTACT US

IN THE USA, FIND YOUR STATE IN THE MAP BELOW, LOOK FOR THE REGION ID NUMBER AND FIND THAT NUMBER IN THE CONTACT INFORMATION CHART.



CONTACT INFORMATION CHART

1	Call Factory Direct - 877-452-0157
2	David Donahue Cell: 414-507-9513 Email: d.donahue@lubricationscientifics.com
3	Bernie Sauve + El Paso Texas Cell: 210-702-9930 Email: bernie@lubricationscientifics.com
4	Andy Kromer Cell: 440-364-4721 Email: aklub@lubricationscientifics.com
5	Call Factory Direct - 877-452-0157
6	Cory Walker Cell: 832-585-7065 Email: c.walker@lubricationscientifics.com

Outside of the United States	Call Factory Direct - 877-452-0157

7	Richard Hanley - **California** - Santa Barbara, Ventura, Los Angeles, Orange, San Bernardino, Riverside, San Diego and Imperial Counties. **Nevada** - Clark County. Cell: 714-625-5539 Email: rth@lubricationscientifics.com
8	**California** - All Counties not covered by Richard. **Nevada** - All Counties except Clark County. Call Factory Direct - 877-452-0157
9	Call Factory Direct - 877-452-0157
10	Call Factory Direct - 877-452-0157

Customer Service (877-452-0157)

- Order status & order entry
- Pricing inquiries
- Part number look-ups
- Product availability information
- Shipment assistance
- All other general inquires

www.lubricationscientifics.com

- Product information, specifications, literature
- Locate sales reps and distributors
- Operator & Repair manuals
- Distributer Information
- Place orders and check current pricing
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