

LUBRICATION SCIENTIFICS, LLC

THE RIGHT PRODUCTS. THE RIGHT VALUES. THE RIGHT CHOICE.



LPE SERIES ELECTRIC PUMPING SYSTEMS

ECONOMY—HEAVY DUTY—PERFORMANCE



LPE ELECTRIC PUMP PACKAGE

PRODUCT DESCRIPTION

ECONOMY/SMALL SYSTEM AND HEAVY DUTY/LARGE SYSTEM PUMP PACKAGES AVAILABLE

12 & 24 VDC MOTORS AVAILABLE IN BOTH SMALL AND LARGE MODELS

2.5 CC (ECONOMY) & 3.57 CC (HEAVY DUTY) PUMPING OUTPUTS

AVAILABLE WITH MAGNETIC AND PROXIMITY LOW LEVEL (PROXIMITY LOW LEVEL RECOMMENDED FOR LOW TEMPERATURE AND HEAVY GREASE APPLICATIONS)

4KG, 6KG, 8KG, 10KG, PUMP PACKAGES AVAILABLE WITH EITHER TOP FILL OR STANDARD FILL LOCATIONS

DESIGNED FOR BOTH OFF ROAD AND INDUSTRIAL APPLICATIONS

BENEFITS & FEATURES

ELECTRIC MOTORIZED PUMPS AVAILABLE IN 12 & 24 VOLT MODELS

SUITABLE FOR RUGGED OUTDOOR USE

MINIMIZES SYSTEM AND OPERATIONAL COSTS

DESIGNED TO BE COMPACT AND ECONOMICAL

AVAILABLE WITH BUILT IN TIMER AND LOW LEVEL

COMES STANDARD WITH 2.5 CC PUMPING UNIT WITH PRV & GAGE

ACCOMMODATES UP TO 3 PUMPING UNITS

STANDARD PRESSURE PUMPING UNIT

READY FOR IMMEDIATE SHIPMENT

MADE IN



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ORDERING INFORMATION & PART NUMBERS

ECONOMY PUMP SYSTEM PACKAGE

12 & 24 VDC

STANDARD WITH 2.8 KG (6.2#) RESERVOIR

2.5 CC/min PUMPING UNIT WITH PRV

WILL ACCOMMODATE UP TO THREE PUMPING UNITS

AVAILABLE WITH BUILT IN TIMER AND LOW LEVEL

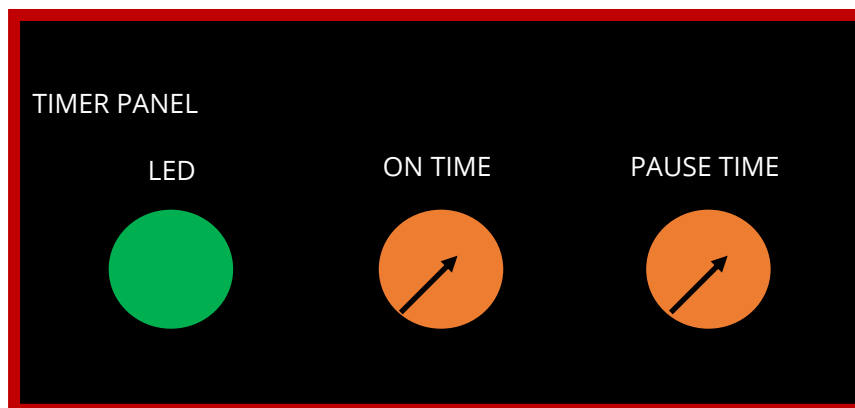
FULLY ASSEMBLED AND READY TO INSTALL

STANDARD PACK: 1 EACH				
ECONOMY ELECTRIC PUMP PACKAGE DESCRIPTION			PART NUMBERS	
COMPLETE PUMP PACKAGE	TIMER	LOW LEVEL	12 VOLT	24 VOLT
1	NO	NO	LPE-ECP1-12-0	LPE-ECP1-24-0
1	NO	YES	LPE-ECP1-12-1	LPE-ECP1-24-1
1	YES	NO	LPE-ECP1-12-2	LPE-ECP1-24-2
1	YES	YES	LPE-ECP1-12-3	LPE-ECP1-24-3
ADD ADDITIONAL 2.5 CC PUMPING UNIT W/ PRV	N/A	N/A	LPE-ECP1-PA	



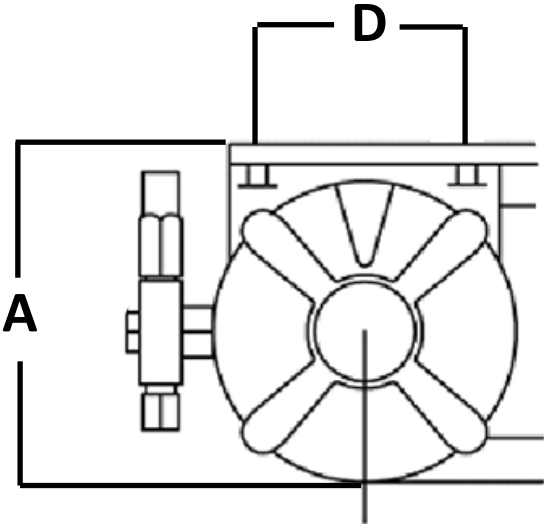
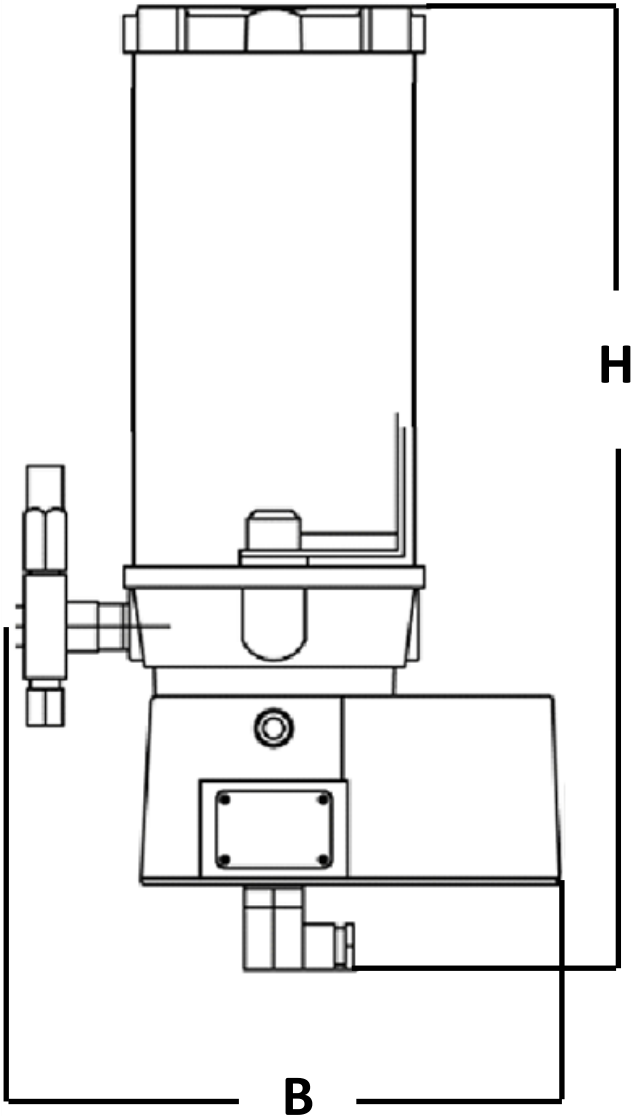
LPE-ECP1 SPECIFICATION SHEET

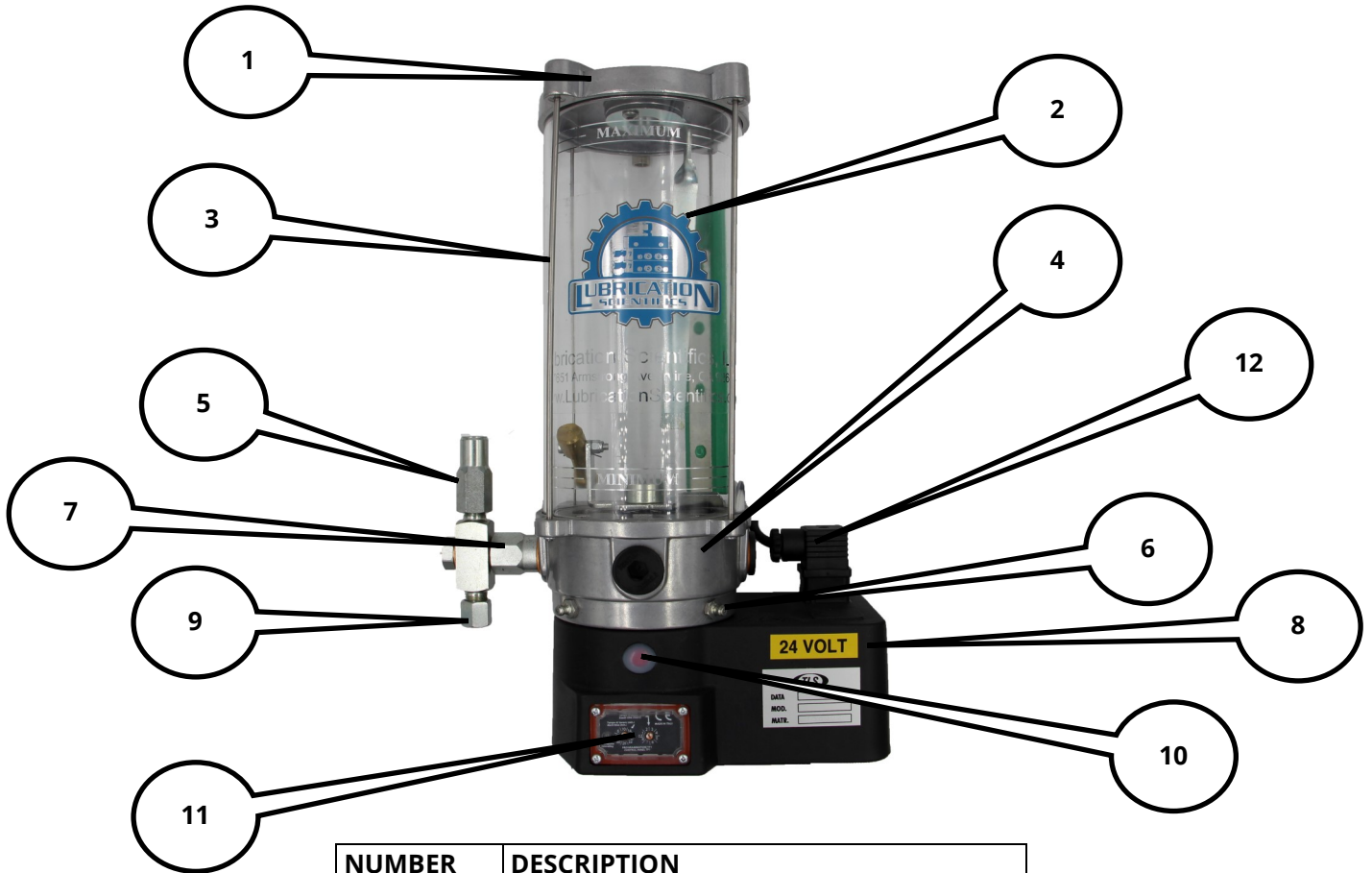
SPECIFICATIONS	
PART NUMBER	LPE-ECP1-XX-Y
MOTOR	ELECTRIC
VOLTAGE	12 VDC OR 24 VDC
MAX REVOLUTIONS PER MINUTE	20
AMP LOAD	0,8 AMPS (AT 4351 PSI AT 68° F)
INTERNATIONAL PROTECTION RATING	IP-65
RESERVOIR	POLYCARBONATE PLASTIC, TRANSPARENT
CAPACITY	6 LBS
MAX PSI / BAR	4351 PSI / 300 BAR
PUMPING (FLOW CONTROL VALVE FIXED)	0-8.66 in3/STROKE
FLOW CONTROL VALVE MAX	104 in3 / hour PER PUMP
TEMPERATURE RANGE	-22° F TO 176° F
RELOAD RESERVOIR	GREASE FITTING
OUTPUT CONNECTION	6MM TUBE
POWER CABLE LENGTH	19.6'
GREASE CONSISTENCY	GREASE NGLI 000-2 MAX



COMMAND FUNCTIONS	
VOLTAGE	10—30 V
CURRENT	6 A (MAX)
TEMPERATURE	-22° F TO 158° F
FUNCTION	PAUSE—ON
PROGRAMABLE ON TIME	2-32 MINUTES
PROGRAMMABLE PAUSE TIME	30 MINUTES TO 8 HOURS

DIMENSIONS	
H, 1.5 KG	11.730"
H, 2.2 KG	14.300"
H, 2.7 KG	16.330"
A	5.756"
B	10.500"
D (MTG. HOLES)	4.100"





NUMBER	DESCRIPTION
1	ALUMINUM TOP CAP
2	POLYCARBONATE RESERVOIR
3	TIE ROD
4	ALUMINUM PUMPING BODY
5	MAXIMUM PRESSURE RELIEF VALVE
6	GREASE FILL FITTING
7	PUMPING UNIT
8	ELECTRIC MOTOR HOUSING BODY
9	TUBE FITTING
10	TIMER CONTROL PANEL
11	MANUAL PUMPING BUTTON
12	POWER SUPPLY CONNECTOR

ORDERING INFORMATION & PART NUMBERS

HEAVY DUTY/LARGE SYSTEM ELECTRIC PUMP PACKAGE

BASIC PUMP READY FOR 4 INDIVIDUAL PUMPING UNITS

SHIPPED STANDARD WITH ONE 3.57 CC/min PUMP/ PRESSURE RELIEF VALVE ASSEMBLY

AVAILABLE WITH EITHER **MAGNETIC** OR **PROXIMITY** LOW LEVEL

FULLY ASSEMBLED AND READY FOR INSTALLATION


DESIGNED FOR BOTH OFF ROAD AND INDUSTRIAL APPLICATIONS

PROXIMITY LOW LEVEL RECOMMENDED FOR LOW TEMPERATURE & HEAVY GREASE



ORDERING GUIDE & PART NUMBERS


ELECTRIC PUMP PART NUMBER BUILDER

ORDERING PROGRESSION						
	1	2	3	4	5	6
PUMP SERIES	PUMP QUANTITY	LOW LEVEL DESIGNATOR	RESERVOIR SIZE	RESERVOIR TYPE	HIGH PRESSURE SWITCH	TIMER
LPE-	XXX-PRV-	XXX-	XX-	XXX-	XXX-	XXX

1: PUMP QUANTITY		
LPE-XXX-PRV-XXX-XX-XXX-XXX-XXX		
PUMP QUANTITY	PER PUMP OUTPUT CC per minute	XXX DESIGNATION NUMBER
1	3.57 CC	124
2	3.57 CC	224
3	3.57 CC	324
4	3.57 CC	424
1	2.52 CC	125
2	2.52 CC	225
3	2.52 CC	325
4	2.52 CC	425
1	4.6 CC	126
2	4.6 CC	226
3	4.6 CC	326
4	4.6 CC	426

ORDERING GUIDE & PART NUMBERS


ELECTRIC PUMP PART NUMBER BUILDER

ORDERING PROGRESSION						
	1	2	3	4	5	6
PUMP SERIES	PUMP QUANTITY	LOW LEVEL DESIGNATOR	RESERVOIR SIZE	RESERVOIR TYPE	HIGH PRESSURE SWITCH	TIMER
LPE-	XXX-PRV-	XXX-	XX-	XXX-	XXX-	XXX

2: LOW LEVEL DESIGNATOR	
LPE-XXX-PRV- XXX -XX-XXX-XXX-XXX	
LOW LEVEL TYPE	XXX DESIGNATION NUMBER
MAGNETIC	MLL
PROXIMITY	PLL

3: RESERVOIR SIZE	
LPE-XXX-PRV-XXX- XX -XXX-XXX-XXX	
RESERVOIR SIZE	XX DESIGNATION NUMBER
8.82 # / 4 KG	04
13.23 # / 6 KG	06
17.64 # / 8 KG	08
22.04 # / 10 KG	10

ELECTRIC PUMP PART NUMBER BUILDER

ORDERING PROGRESSION						
	1	2	3	4	5	6
PUMP SERIES	PUMP QUANTITY	LOW LEVEL DESIGNATOR	RESERVOIR SIZE	RESERVOIR TYPE	HIGH PRESSURE SWITCH	TIMER
LPE-	XXX-PRV-	XXX-	XX-	XXX-	XXX-	XXX

4: RESERVOIR TYPE	
LPE-XXX-PRV-XXX-XX- XXX -XXX-XXX	
RESERVOIR SIZE	XXX DESIGNATION NUMBER
MAGNETIC LL, STD TOP	MRC
MAGNETIC LL, FILL TOP	MTC
PROXIMITY LL, STD TOP	PRC
PROXIMITY LL, FILL TOP	PTC

5: HIGH PRESSURE SWITCH	
LPE-XXX-PRV-XXX-XX-XXX- XXX -XXX	
SWITCH OPTION	XXX DESIGNATION NUMBER
NO SWITCH	000
HIGH PRESSURE SWITCH	HPS

6: TIMER	
LPE-XXX-PRV-XXX-XX-XXX-XXX- XXX	
SWITCH OPTION	XXX DESIGNATION NUMBER
NO TIMER	000
TIMER	TMR

BLANK ORDERING FORM

ELECTRIC PUMP HEAVY DUTY

LPE-XXX-PRV-XXX-XX-XXX-XXX-XXX

LPE- _____ -PRV- _____ - _____ - _____

QUANTITY: _____

LPE- _____ -PRV- _____ - _____ - _____

QUANTITY: _____

LPE- _____ -PRV- _____ - _____ - _____

QUANTITY: _____

LPE- _____ -PRV- _____ - _____ - _____

QUANTITY: _____

ADDITIONAL PUMPING UNITS

LPE-XP _____ - _____ QTY: _____

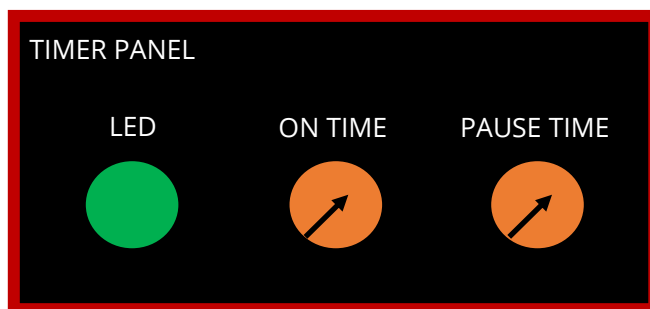
LPE-XP _____ - _____ QTY: _____

LPE-XP _____ - _____ QTY: _____

LPE-XP _____ - _____ QTY: _____

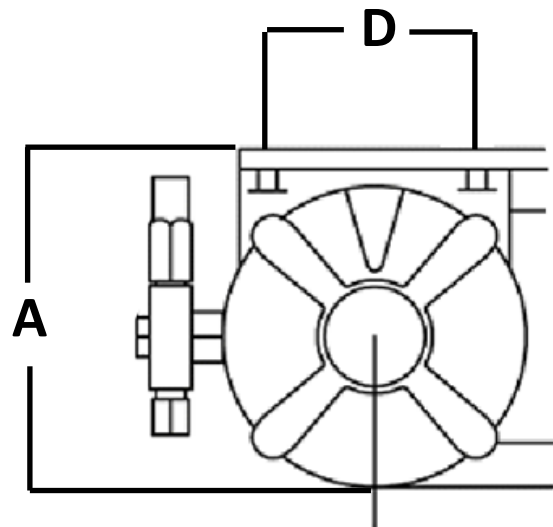
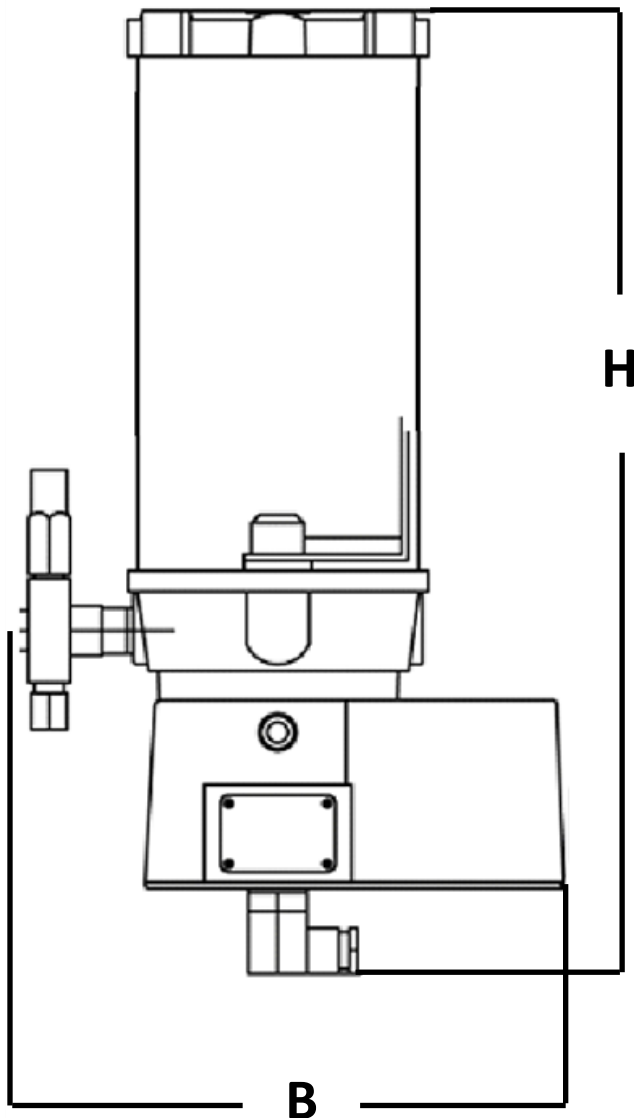
LPE-ECP1 SPECIFICATION SHEET

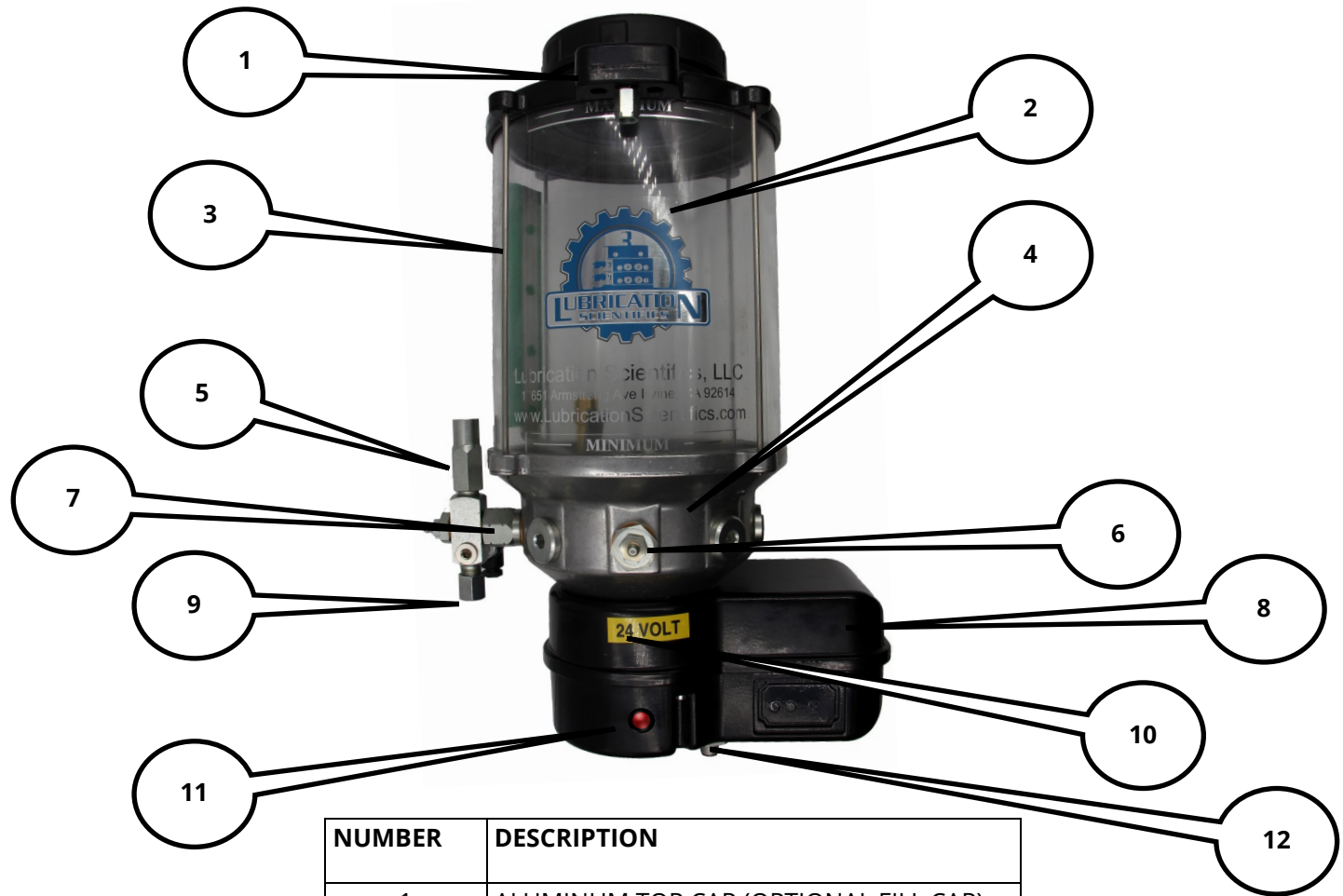
SPECIFICATIONS	
PART NUMBER	LPE- XXX -PRV-XXX-XX-XXX-XXX-XXX
MOTOR	ELECTRICAL
POWER SUPPLY VOLTAGE	24 VDC
NOMINAL CONSUMPTION	1A 12V-0,7A 24V
MAX PEAK STARTING CONSUMPTION	3 A 24VDC
MOTOR RPM	20
PROTECTION	IP56
TANK	TRANSPARENT POLYCARBONATE
TANK CAPACITY	KG.4-KG.6-KG.10
NO. OF PUMPING OUTLETS	FROM 1 TO 4
STANDARD PUMPING ELEMENT	0.22CM3/STEP
MAX GREASE FLOW RATE PER PUMPING ELEMENT	264 CM3/H (EACH PUMPING ELEMENT)
WORKING TEMPERATURE	-30 +80°C
FILLING CONNECTOR	GREASE NIPPLE ¼ (DIN 71412)
PUMP FILLING FILTER	150 MICRON
OUTLET CONNECTOR	HOSE 6 STANDARD-HOSE 8 ON REQUEST
POWER CABLE	L=6 MT. STANDARD
GREASE CONSISTENCY	GREASE NGLI 000-2
OIL VISCOSITY (MINIMUM)	46CST
MAX RELATIVE HUMIDITY	90%
SOUND PRESSURE LEVEL	< 70 DB(A)
PUMP MATERIAL	ALUMINUM



COMMAND FUNCTIONS	
VOLTAGE	10—30 VDC
MAX CONTINUOUS CURRENT	6 A (MAX)
TEMPERATURE	-22° F TO 158° F
FUNCTION	PAUSE—ON
PROGRAMABLE WORK TIME	2-32 MINUTES WORK
PROGRAMMABLE PAUSE TIME	.30 TO 8 HOUR PAUSE

DIMENSIONS	
H, 2.5 KG	13.189"
H, 3.5 KG	14.470"
H, 4 KG	15.157"
H, 6 KG	17.126"
H, 8 KG	21.063"
H, 10 KG	25.000"
A	9.843"
B	12.205"
D (MTG. HOLES)	5.118"





NUMBER	DESCRIPTION
1	ALUMINUM TOP CAP (OPTIONAL FILL CAP)
2	POLYCARBONATE RESERVOIR
3	TIE ROD
4	ALUMINUM PUMPING BODY
5	MAXIMUM PRESSURE RELIEF VALVE
6	GREASE FILL FITTING
7	PUMPING UNIT
8	ELECTRIC MOTOR HOUSING BODY
9	TUBE FITTING
10	TIMER CONTROL PANEL
11	MANUAL PUMPING BUTTON
12	POWER SUPPLY CONNECTOR

REPLACEMENT OR ADDITIONAL PUMP ORDERING INFORMATION

COMPATIBLE WITH BOTH ECONOMY & HEAVY DUTY LPE PUMP BODIES

PUMP ELEMENTS

THESE PUMPING ELEMENTS ARE FOR USED WITH OUR LPE PISTON PUMPS. THESE PUMPING ELEMENTS ARE BOUGHT FOR REPLACING EXISTING PUMP ELEMENTS, ADDING ADDITIONAL PUMPING ELEMENTS TO EXISTING PUMPS, OR INCREASING THE CURRENT OUTPUT CAPABILITIES ON EXISTING PUMPING UNITS.

TECHNICAL DATA

VOLUME:

LDPE-60	0.06 cm ³ /stroke 1.26 cc/ min
LDPE-120	0.12 cm ³ /stroke 2.52 cc/ min
LDPE-170	0.17 cm ³ /stroke 3.57 cc/ min

MAX OPERATING PRESSURE: 5000 PSI

LUBRICANT: OIL & GREASE NLGI 2

NO PRESSURE LIMITING VALVE

ADDITIONAL PUMP (S) PER BELOW PART NUMBER CONVERSION CHART	OUTPUT (PER STROKE)	PUMP ELEMENT PART NUMBER
2.52 CC/MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY (STANDARD PUMP FOR ALL BASE PUMP PACKAGES)	0.12 cm ³ /stroke	LDPE-120-PRV *FOR USE HEAVY DUTY PUMP ONLY
1.26 CC /MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY (MAY BE SUBSTITUTED ON ANY PUMP PACKAGE) (CONTACT CUSTOMER SERVICE TO SUBSTITUTE THIS PUMP)	0.06 cm ³ /stroke	LDPE-60-PRV *FOR USE ECONOMY PUMP ONLY
3.57 CC/MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY (MAY BE SUBSTITUTED ON ANY PUMP PACKAGE) (CONTACT CUSTOMER SERVICE TO SUBSTITUTE THIS PUMP)	0.17 cm ³ /stroke	LDPE-170-PRV *FOR USE HEAVY DUTY PUMP ONLY
3.57CC PUMPING BODY ONLY	N/A	LDPE-170

REPLACEMENT OR ADDITIONAL PUMP ORDERING INFORMATION

COMPATIBLE WITH BOTH ECONOMY & HEAVY DUTY LPE PUMP BODIES

RESERVOIR REPAIR AND REPLACEMENT COMPONENTS

RESERVOIR TYPE	TIE ROD KIT (4 INCLUDED)	RESERVOIR TUBE (LPE)
4 KG—ALL	LPE-TR4	LPE-TU04
6 KG—ALL	LPE-TR6	LPE--TU06
8 KG—ALL	LPE-TR8	LPE--TU08
10 KG—ALL	LPE-TR10	LPE--TU10

HIGH PRESSURE SWITCH REPLACEMENTS

REPLACEMENT HIGH PRESSURE SWITCH	PART NUMBER
PRESSURE RATING 3625 PSI / 250 BAR	LPE-HPS-O

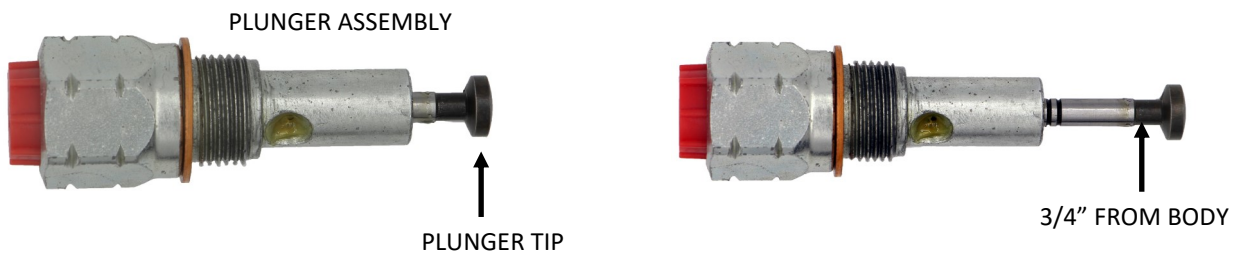
TOP FILL RESERVOIR LID OPTIONS

RESERVOIR TYPE	PART NUMBER
FOR MRC & MTC RESERVOIRS	LPE-TFC-M1
FOR PRC & PTC RESERVOIRS	LPE-TFC-P1

PLUNGER INSTALLATION GUIDE FOR LPE-ECP-24 SERIES

ITEMS NEEDED: LPE PUMP, LDPE PLUNGER ASSEMBLY, AND CRESCENT WRENCH

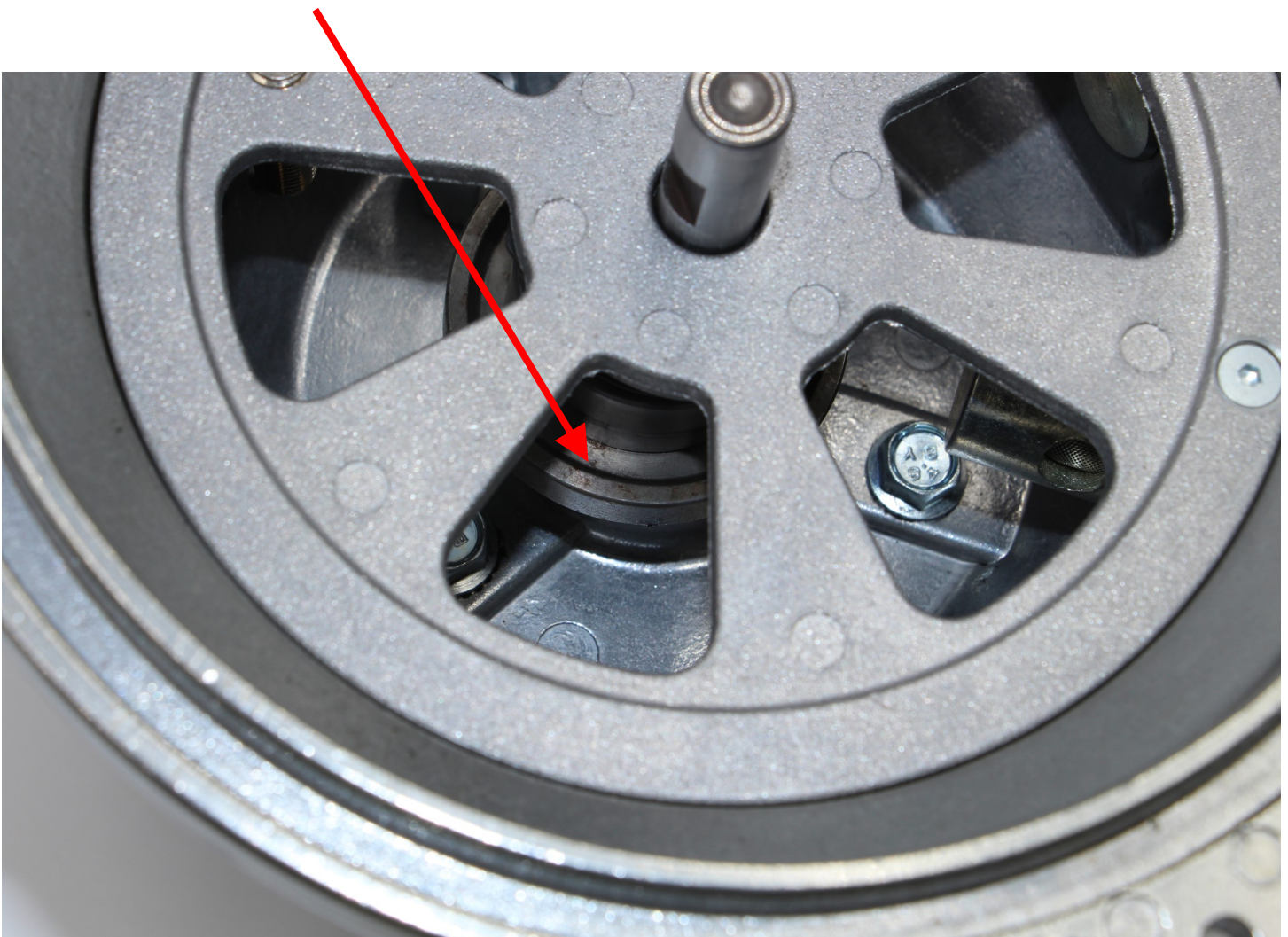
STEP 1: REMOVE PLUNGER ASSEMBLY FROM PLASTIC CONTAINER. NOTE THE PLUNGER COMPONENTS AS SHOWN BELOW. PULL PLUNGER OUT 3/4" FROM BODY AS SHOWN.



PLUNGER INSTALLATION GUIDE FOR LPE-ECP-24 SERIES

STEP 2: TAKE PUMP AND LOOK THROUGH THE TOP LUBRICATION SLOTS. NOTICE A TRACKED DISK IN-BETWEEN THE SLOTTED TOP PORTION AND THE FLOOR OF THE PUMP AS SHOWN. **WHEN PROPERLY INSTALLED, THE PLUNGER TIP WILL SIT IN THIS TRACK.**

TRACKED DISK

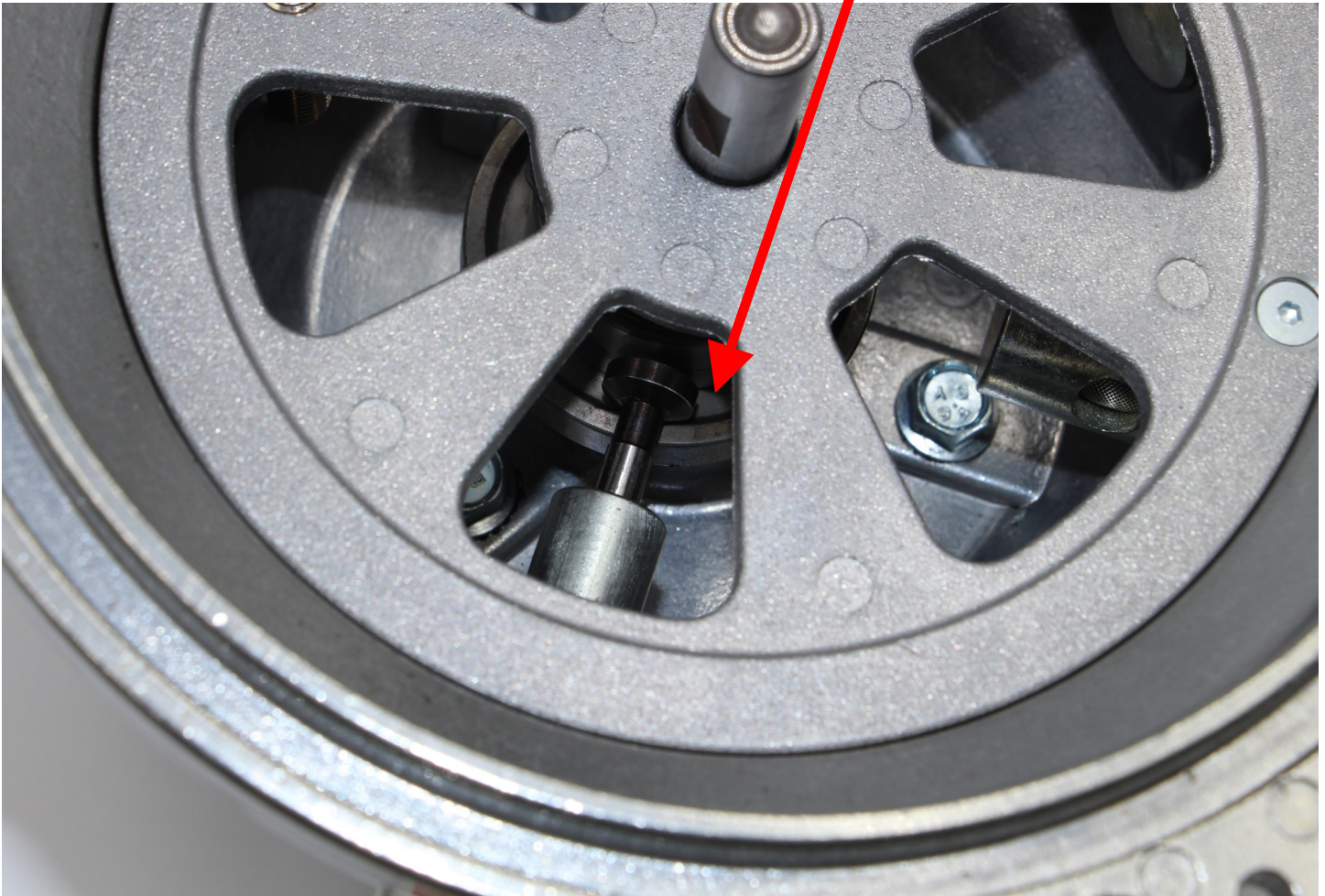


PLUNGER INSTALLATION GUIDE FOR LPE-ECP-24 SERIES

STEP 3: TAKE THE PLUNGER ASSEMBLY WITH THE PISTON PULLED OUT TO THE SECOND NOTCH AND INSERT THE PLUNGER ASSEMBLY INTO THE PUMP BODY AT APPROXIMATELY A 30 DEGREE ANGLE, UPWARDS, CLEARING THE DISK FROM THE TIP. ONCE INSERTED UP TO THE THREADS OF THE PLUNGER ASSEMBLY, STRAIGHTEN OUT, **ENSUREING THE PLUNGER TIP SEATS INTO THE TRACK.** THREAD THE PLUNGER ASSEMBLY INTO THE PUMP HOUSING UNTIL HAND TIGHT. USE A WRENCH TO TIGHTEN THE REST OF THE WAY. SEE ILLUSTRATION BELOW. CHECK AGAIN TO ENSURE TIP REMAINS IN THE TRACK.



ENSURE TIP SEATS WITH THE TRACK



NOTES

CONTACT US

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