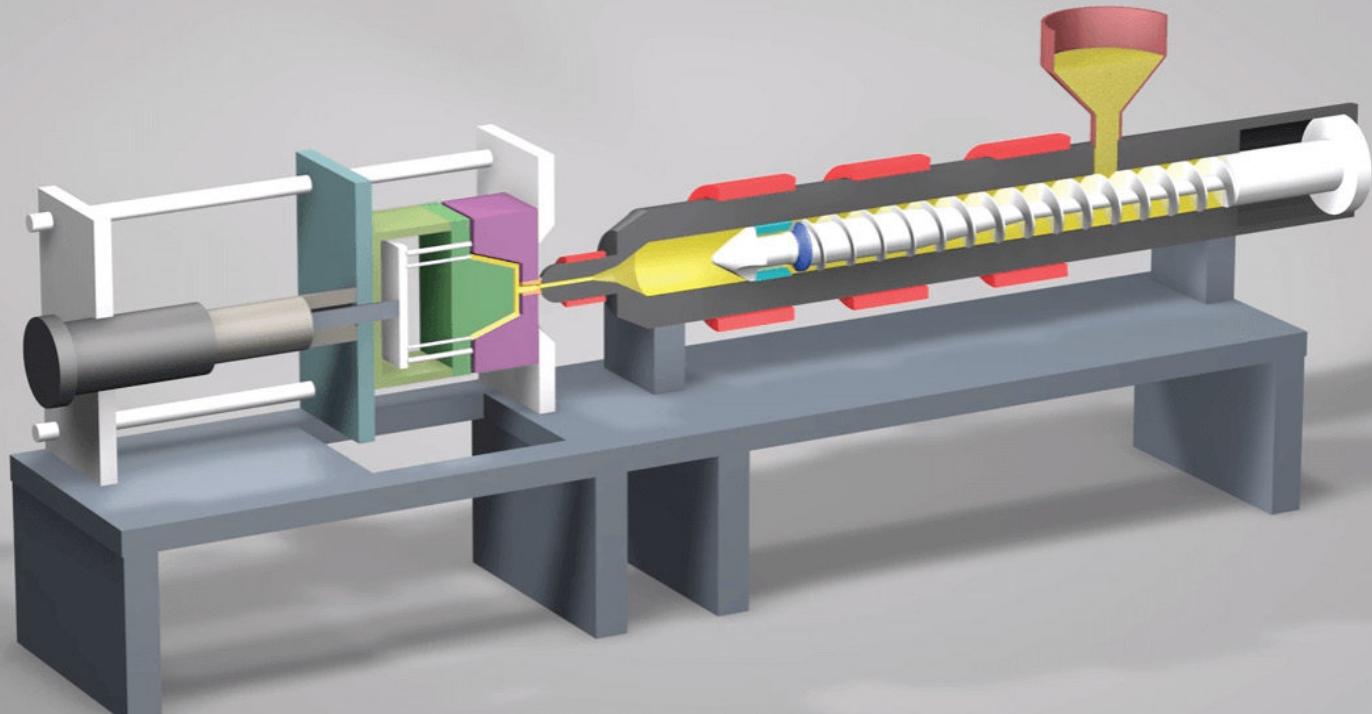




CENTRALIZED LUBRICATION SYSTEM

INJECTION MOLDING MACHINE & ACCESSORIES



LDX PUMPS



LFX PUMPS



LBX PUMPS

RIKKON GROUP OF COMPANIES



Why use LUBERR Automatic Lubrication Systems (ALS) on your Machines?



1. Enhanced Equipment Life



2. Reduced Downtime



3. Consistent Lubrication



4. Cost Efficiency



5. Improved Safety



6. Environmental Benefit



7. Remote Monitoring



8. Customization



9. Challenging Environments



10. Complex Machinery



11. Regulatory Compliance



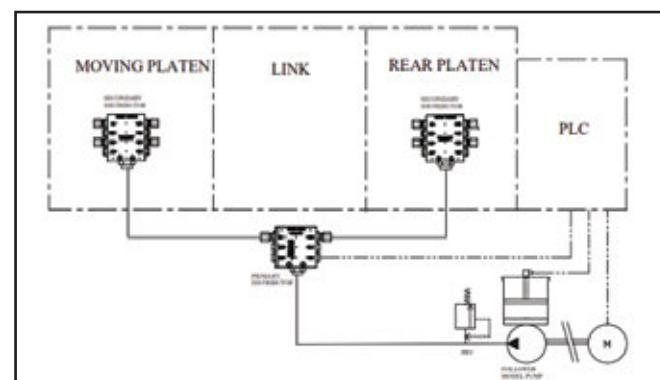
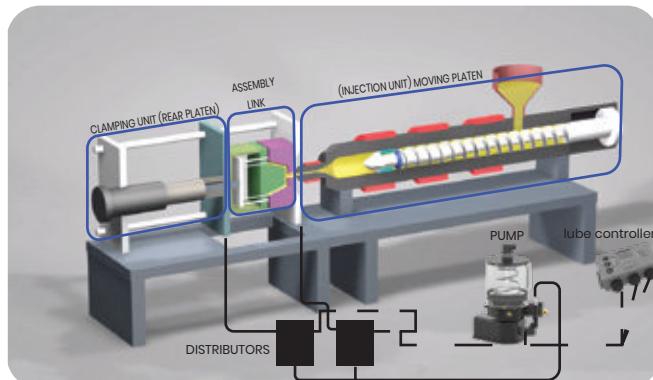
12. Maintenance Optimization

LUBERR – Progressive Lubrication System

LUBERR Progressive Lubrication system consist of motorized lubrication pumps, Lubrication Controller, Progressive Distributor Block, Hoses and Hose Fittings and other accessories. The LUBERR pump supplies lubricant under high pressure to the lubrication points through the Progressive Distributors when an electric supply is provided to the LUBERR pump.

The Progressive Distributor distributes equally & delivers the lubricant to the lube points through feed lines. The Lube Controller in the Customer PLC/Control panel actuates the Pump to deliver the lubricant for the pre-set ON time while the operation of the lubrication system is monitored by the making / breaking contacts of the Micro Limit Switch at the Distributor. The Monitoring time is pre-set in the Lube Controller PLC such a way that during the Pump ON time, the indicator pin makes at least one TO & FRO motion thereby, making, and breaking contacts at the Micro Limit Switch at least once indicating the healthy functioning of the system.

In case of any system malfunctioning, the indicator pin does not move, and the Monitoring circuit fault signal shall be used to monitor/control fault by providing suitable Indicating and announcing mechanisms. The outlet of the pump is provided with a pressure relief valve. In case of any blockage in the system, the pressure relief valve starts relieving as soon as the set pressure (Normally 200 bar) at the safety valve is exceeded. The system components are thus protected from excess pressure.



Typical Layout Of Progressive Lubrication System

Features of Progressive Lubrication system

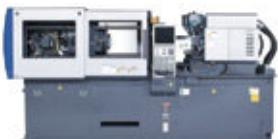
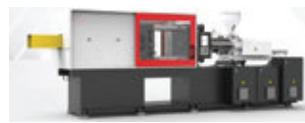
- 1 Sequential Lubrication Flow.
- 2 Accurate Lubrication Distribution.
- 3 Allows for easy monitoring of lubrication flow via visual indicators or electrical sensors.
- 4 The system can be easily expanded or modified by adding or removing elements.
- 5 Blockage Detection : If any point becomes blocked, subsequent lubricant points will not receive lubricant, allowing for quick fault identification..
- 6 Applicable to various Lubricants: Can handle oil or Grease (System dependent)

LUBERR – Automatic Lubrication System for Injection Moulding Machine

Customer requirements for greater reliability and fewer downtime increase as demand for production facilities increases. LUBERR automatic lubrication system has increased the service life of your equipment. By reducing the wear of critical components customers injection / blow Moulding will work with maximum efficiency thanks to an automatic lubrication system that will reduce downtime and maintenance costs. The hard-to-find spare parts and components may be easily replaced and there is greater interoperability with rival products. The automatic lubrication system will ensure the accurate supply of clean which is delivered to the right place at the right time.

IMPORTANT NOTES

All products from LUBERR may be used only for their intended purpose as described in this brochure and in any instructions. If operating instructions are supplied with the products , they must be read and followed. The listed pump part numbers mentioned in the catalogue represent only an excerpt of the standard pump parts. Special pumps or customized pump are not listed , however maybe be included by chance.

Type	Applications	
Toggle Mechanism Injection Moulding Machine		
Ram type Moulding Machine		
Two plates Moulding Machine		
Blow Moulding Machine		



PUMP SPECIFICATIONS

Parameters	Electrically operated piston pump
Operating temperature V DC	-20 to +55°C
Operating temperature V AC	-20 to +55°C
Maximum Operating pressure	300 Bar / 4351 PSI
Lubricant	Grease : upto NLGI 2 / oil with operating viscosity 40-1500 mm ² /s
Outlets	up to 3
Pump Output depending on pumping element	0.14 / 0.2 / 0.35 cc per stroke / 2.8/4/7cc @20RPM
Reservoir capacity	2;3, 4;5; and 8
Outlet connection	G 1/8 & M10
Operating Voltage	12/24 V DC / 230 V AC 50/60 Hz
Protection class	IP65
Mounting position	Upright and with follower any position



PRESSURE RELIEF VAVE



Part Number	Description	Relief pressure		Connection pressure line
		bar	psi	
SA1201	For 120 Bar	120	1740	1/8" BSP & M10
SA094	For 150 Bar	150	2175.57	1/8" BSP & M10
SA036	For 200 Bar	200	2900	1/8" BSP & M10
SA224	For 300 Bar	300	4351	1/8" BSP & M10

PUMPING UNIT SPECIFICATION

Part number	Description	Material	Nominal output in cc	
			per stroke	per min @20 RPM
SA2565	Pumping element	Steel, gasnitro-carburized	0.14	2.8
SA090	Pumping element	Steel, gasnitro-carburized	0.2	4
SA093	Pumping element	Steel, gasnitro-carburized	0.35	7





Quick filling connectors for Grease filling

Part number	Description	Connection	Filter
BH035	Filter fitting with Grease nipple	1/8" BSP Grease Nipple	-
BH092	Filter fitting with Grease nipple	1/4" BSP Grease Nipple	-
SA045	Filter fitting with Grease nipple	1/4" BSP Grease Nipple	74 mic.



How to order Pump

LBX - XX - XX

Product Model

LBX-Basic
LFX- Basic Follower
LDX - Delux

Voltage

12 - 12 VDC
24 - 24 VDC

Capacity

02 - 02 LTRS (LBX / LFX)
03 - 03 LTRS (LDX)

Low Level (2 LTRS)

L1- Sensing Follower (LFX)
L2 - Sensing Stirrer (LBX / LDX)
LW- Without Level

Pump Output and Outlet

41 - 4CC / MIN X 1 OUTLET
42 - 4CC / MIN X 2 OUTLET
43 - 4CC / MIN X 3 OUTLET
08 - 4CC / 2 OUTLET COMBINED
71 - 7CC / MIN X 1 OUTLET
72 - 7CC / MIN X 2 OUTLET
14 - 7CC / 2 OUTLET COMBINED

Charging Filter

CA - CHARGING FILTER
CW - WITHOUT FILTER

Pump Outlet Adapter

KA - M10-6L STRAIGHT
KB - M10- 6LL STRAIGHT
KC - M10 6L BANJO
KD - M10 6MM PUSHFIT
KE - WITHOUT ADAPTER

Pressure Relief Valve

12 - 120 Bar PRV
20 - 200 Bar PRV
30 - 300 Bar PRV



EXAMPLE

LBX-24-02-LW-41-20-KB-CA
LUBERR BASIC GREASE PUMP (LBX), 24VDC, 2LTRS , WITHOUT LOW LEVEL, 4c/ min- 1NO PUMP
OUTPUT, 200 BAR PRV , M10-6LL STRAIGHT PUMP OUTLET ADAPTER, CHARGING NRV & STRAINER -
1/4" BSP-ASSEMBLY WITH GREASE NIPPLE

Distributor Specification



SPECIFICATION	DV MODEL	DH MODEL	DN MODEL
Model	SVM21DV	SVM21DH	SVM21DN
No of Outlet	6 to 20	6 to 20	6 to 28
Lubricant	Grease up to NLGI 2	Grease up to NLGI 2	Grease up to NLGI 2
Output per cycle	0.2cc/Stroke/Outlet	0.2cc/Stroke/Outlet	0.2cc/Stroke/Outlet
Material	Carbon Steel	Carbon Steel	Carbon Steel
Inlet Thread	1/8" BSP	M10 X 1P	1/8" BSP
Outlet Thread	M10 X 1P	M10 X 1P	M10 X 1P
Max. Opr. Temperature	(-20 to +80) Deg C	(-20 to +80) Deg C	(-20 to +80) Deg C
Max. Opr. Pressure	400 Bar	400 Bar	400 Bar
Monitoring Option	Any	Any	Any

How to Order progressive Distributor

21D XX X X XX XX XX

PRODUCT MODEL
21D MODEL

NO OF OUTLETS
06-06 Outlets
08-08 Outlets
10-10 Outlets
12-12 Outlets
14-14 Outlets
16-16 Outlets
18-18 Outlets
20-20 Outlets
22-22 Outlets
24-24 Outlets
26-26 Outlets
28-28 Outlets

MATERIAL
A-Carbon Steel
B-Stainless Steel

PORING TYPE
V-Vertical Porting
H-Horizontal Porting
N-Non Porting

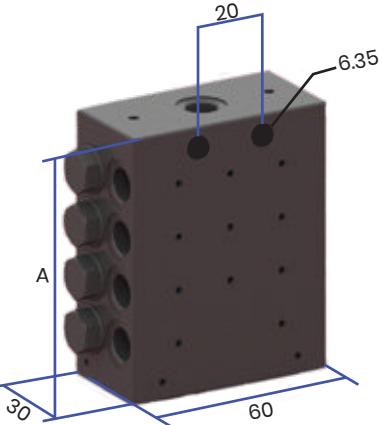
MONITORING

CY - Cycle indicator SAI525
LS - Limit Switch SAI523
HP - Horizontal Proximity Sensor SAI529
VP - Vertical Proximity Sensor SAI527
HH - Horizontal Proximity Housing SAI557 (Proximity Switch by Customer)
VH - Vertical Proximity Housing SAI558 (Proximity Switch by Customer)
WM - Without Monitoring

Model	Description	'A' Dimension
21-D-6	6 way	60
21-D-8	8 way	75
21-D-10	10 way	90
21-D-12	12 way	105
21-D-14	14 way	120
21-D-16	16 way	135
21-D-18	18 way	150
21-D-20	20 way	165
21-D-22	22 way	180
21-D-24	24 way	195
21-D-26	26 way	210
21-D-28	28 way	225

INLET ADAPTER MODEL

MA - 1/8" BSP-6L Straight BJ090
MC - 1/8" BSP-6L Banjo BJ453
ME - 1/8" BSP-6LL Banjo SAI577
MF - 1/8" BSP-6LL Straight SA014
MG - 1/8" BSPX6 Mm Push in Fitting BM239
MH - 1/8" BSP Grease Nipple SAI362
MW - Without Inlet Adapter



OUTLET ADAPTER MODEL

KA - 4 mm Nut & Ferrule SA020
KB - 6LL Nut & Ferrule DH/DN Type SA933
KC - 6LL Nut & Ferrule DV Type SA008
KD - 6mm Push in fitting DH/DN Adapter BM294
KE - 4 mm Push in Fitting DH/DN Adapter BM225
KF - 6 LL Nut & Ferrule DV Type with Performance Indicator SAI539
KG - 6 LL Nut & Ferrule DV Type with Performance Indicator SAI571
KH - 4mm NRV OUTLET ADAPTER FOR PUSHFIT SAI573
KW - Without Outlet Adapter

Example: 21D10AHKWMWLS
21D-10 WAY-A (CARBON STEEL)-H (HORIZONTAL PORTING-KW (W/O OUTLET)-MW (W/O INLET-LS (LIMIT SWITCH))



CLS Kit Accessories & Consumable

Part No	Description	UoM	Image	Part No	Description	UoM	Image
BG051B2	M8 PLATE WASHER PLATED	NOS		BK074E1	M6X1PX40MM-L-HL -SOC -HEAD-CS-COATED	NOS	
BG064B2	M6 PLATE WASHER PLATED	NOS		BK095E1	M8 X1.25P X 40LONG HEX BOLT	NOS	
BH125A1	4MM SPRING COVER - 1MTR LONG	NOS		BM281	1/8"NPT HPPF 4MM-250BAR CMTYPE"	NOS	
SA1143	INLINE FILTER ASSEMBLY- 74MICRON-WO O/L	NOS		SA009	MALE CONNECTOR -STC-GE-6LLXM10T-C.S	NOS	
BI116	PRESSURE GAUGE (0 TO 350 BAR)-1/8"BSPT BACK ENTRY	NOS		SA014	MALE CONNECTOR-STC -GE-6LLX1/8"BSPT-C.S	NOS	
SA1603	PRESSURE GAUGE ASSEMBLY	NOS		SF439	4 MM BRASS FERRULE	NOS	
BU016	GREASE HOSE 8.5-OD X 4-ID	MTR		SA489	MALE CONNECTOR- ETC-WES-4MPPFX1/8NPT	NOS	
BU026	RIKKON NYLON TUBING- 6 OD X 3 ID -BLACK	MTR		SF435A	NUT 6LL- C.S- BLACK PLATED	NOS	
SA020	4 MM NUT & FERRULE O/A ASSLY	NOS		SF436	FERRULE 6LL MS-F	NOS	
SA156	MALE CONNECTOR- ETC- WE-4NFX1/8" BSPT-C.S"	NOS		BM225	MPPF 4MM- 250BAR CMTYPE	NOS	
SF440	4 MM M.S. NUT	NOS		BJ421	1/4" BSPTX 6L OD STC- M.S	NOS	
SA156	SF526 - ELBOW BASE 1-8 NPT X M10 FEMALE-90 DEG	NOS		BJ564	HEX BANJO-ETC-06MM OD XI/8" BSP-C.S - Zinc White Plated	NOS	
SA111	6MMOD X8.5 OD GR. HOSE FITTNG - STRAIGHT	NOS		BJ603B	1/8"BSP- FEMALE-BANJO BASE	NOS	
BJ481	1/8 BSP X 4MM NUT FERRULE BANJO	NOS					

Distributor Critical Spare Parts

Description	UoM	Image	Part No	Description	
SA1589	M10 DUMMY PLUG WITH O-RING	NOS		BM294	6MM MPPF-150 BAR- M10XIP- THRD-WITH O-RING
BE135	2 CORE 0.5SQMM LIMIT SWITCH WIRING ASSLY	NOS		SA008	6 MM DV NUT & FERRULE O/A ASSLY
SA020	4 MM NUT & FERRULE O/A ASSLY	NOS		SA009	MALE CONNECTOR -STC-GE-6LLXM10T-C.S
BM281	1/8"NPT HPPF 4MM-250BAR CMTYPE"	NOS		SA014	MALE CONNECTOR-STC -GE-6LLX1/8"BSPT-C.S

Pump Critical Spare Parts

Part No	Description	UoM	Image
BG069	CU 1/4" GASKET OD 17.8 X ID 13.4 1.5T	NOS	
BG080A	6MM BONDED SEAL-ID 6 X OD 12 X 1.5MM	NOS	
BG106S	M4 PLATE WASHER-SS	NOS	
BG112	M22-GASKET ID 21.9X OD 28 X 1.25 THK	NOS	
BH040	SVM80- BEARING 6000ZZ-	NOS	
SA090	LPU30 -BODY+NRV ASSY-0.2CC/ STROKE	NOS	
SA094	LUBERR PRV ASSEMBLY -150 BAR	NOS	
SA120I	LUBERR PRV ASSEMBLY -120 BAR	NOS	
SK088	LFX PUMP CHARGING NRV WITH NIPPLE SPARE KIT	NOS	
BW022	MOTOR 24V DC WORM GEARED	NOS	
BK173S	M4X16MM HALF ROUND SCREW	NOS	
BK240S	M4X16 MM HALF ROUND HEAD- SECURITY SCREW	NOS	

Part No	Description	UoM	Image
BR021	SVM80-OIL SEAL 22X10X7	NOS	
BR082	SVM80-TOP LID O-RING-ID146 X 3	NOS	
BR173	DIN BASE SEAL NBR 30 X 30 X 2.5	NOS	
BR175	IP65 PROTECTION WASHER FOR DIN CONNECTOR	NOS	
BR179	PLUG SEAL OD 28 X ID 22 X THK 2	NOS	
BR338	EVA SEAL-BETWEEN PUMP BODY TO RESERVOIR	NOS	
BR339	EVA SEAL-BETWEEN PUMP BODY TO MOTOR BOX	NOS	
BM102	SVM80-PUMP BODY- PA6 GF35(MACHINED)	NOS	
BM341	M22 DUMMY PLUG FOR SVM80 PUMP BODY	NOS	
SA1766	2 KG - FOLLOWER ASSEMBLY	NOS	
BE109	M.CON STANDARD SOCKET - S-183/9 (BLACK)	NOS	
BE129	M.CON STANDARD SOCKET - S-183/11 - WHITE	NOS	
SA120	LFX-02-REED SWITCH ASSEMBLY-NO TYPE	NOS	
SK045	2KG RESERVOIR SPARE KIT	NOS	
BK104S	M3 X 15L ALLEN BOLT SS	NOS	

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