LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

PRODUCT CATEGORY	SPECIFIC PRODUCT	BULLETIN NUMBER
ALL PRODUCTS	ALL PRODUCTS OVERVIEW	LSM000
SERIES PROGRESSIVE		
	LCIV	LSM027
	LSP	LSM013
	LHP	LSM014
	LMX	LSM015
	LMXP	LSM016
	ORFL	LSM022
	LGO	LSM024
	LD SERIES	LSM041
INJECTORS	INJECTORS	LSM012
DUAL SERIES	DUAL LINE	LSM020
PUMPS		
	BOX PUMPS	LSM021
	LMPP	LSM017
	LPE	LSM018
	MANUAL PUMPS MAG	LSM034
	RAM PUMPS	LSM033
	LMAG	LSM038
	SINGLE LJP PUMP	LSM040
	LCPR PUMP PACKAGES	LSM037
FILTRATION		
	AIR TRAP	LSM023
	CANISTER FILTER	LSM007
	DIRT TRAP	LSM001
	SPIN ON FILTER	LSM026
CONTROLLERS & MONITORS		
	COMPRESSOR MONITOR	LSM004
	SYSTEM CONTROLLER	LSM005
ACCESSORIES		
	ANCHOR BLOCKS	LSM008
	BALANCING VALVES	LSM006
	CHECK VALVES	LSM011
	RESET INDICATORS AND BLOWOUT FITTINGS	LSM002
	PRESSURE GAUGE	LSM028
	SWIVELS	LSM009
	PROXIMITY SWITCHES	LSM003
	LPRVM PRESSURE RELIEF VALVE	LSM031

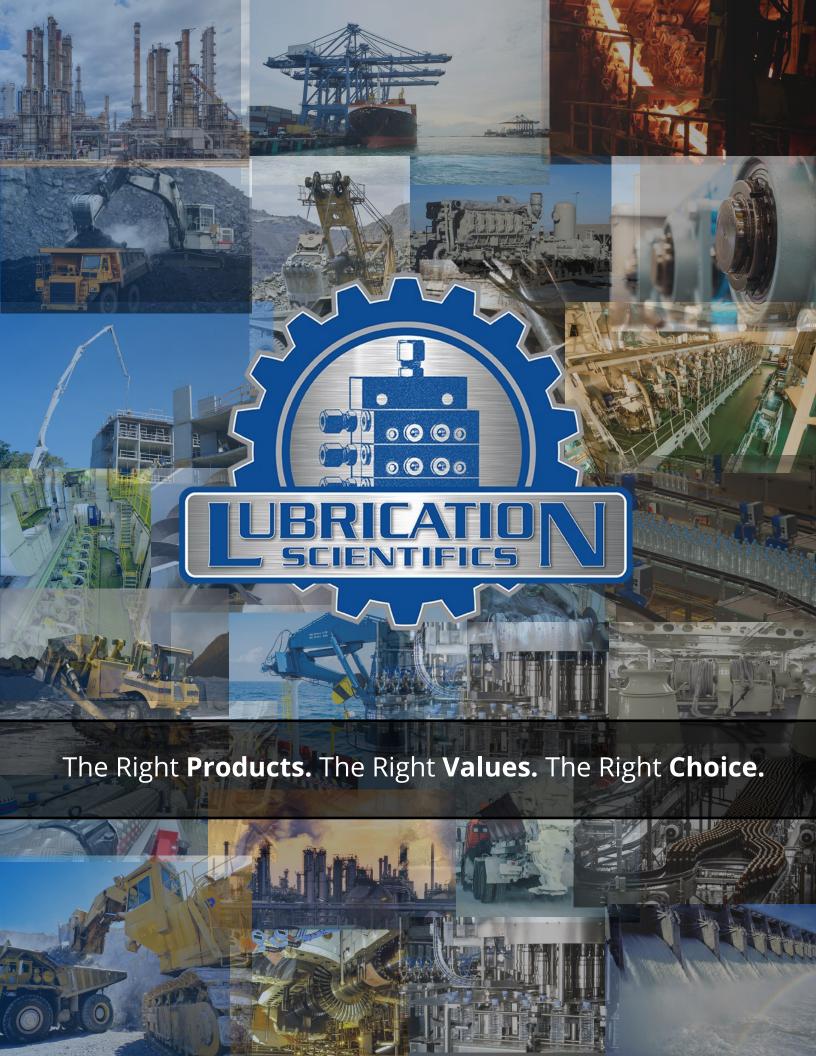
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INDEX RELEASE DATE: 01/31/2020

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

ACCESSORIES (CONTINUED)		
	HOSES, FITTINGS AND ACCESSORIES FOR CENTRALIZED LUBRICATION SYSTEMS	LSM032
	PURGE GUN/GREASE GUN	LSM035
	SPRAY VALVE	LSM039
	CASE® OFF ROAD KIT	LSM036
	CAT® OFF ROAD KIT	LSM036
	DEERE-HITACHI® OFF ROAD KIT	LSM036
	KOBELCO® OFF ROAD KIT	LSM036
	KOMATSU® OFF ROAD KIT	LSM036

INDEX RELEASE DATE: 01/31/2020 2



About Us

Lubrication Scientifics has invested in the improvement of automated lubrication equipment, developing innovative products that provide superior solutions for a variety of plant and mobile applications. With field representatives that have over 100 years of combined experience in automatic lubrication, our partnerships with various industries have led to superior cost effective methods that improve asset life and productivity with measurable returns on investment.





Various system designs, including single line parallel, dual line, series progressive, and hybrid systems, are offered to provide the best technical solution for your application. Lubrication Scientifics offers metering devices in plated carbon steel, and 303 or 316 stainless construction to perform under the most demanding environmental conditions. Our world class Irvine, CA manufacturing facility is ISO 9001:2008 ® certified producing high quality products with "off the shelf" delivery. We can assist you with selecting from a simple manual system to fully automated designs with condition monitoring.

Recognizing the needs of our customers we constantly strive to provide the latest, state-of-the-art features in our products. Our presence in the food and beverage, mining, construction, gas transmission, refining and heavy metals industries allow us to lead with new and innovative ideas. Product and application specialists with a passion for excellence are available to support your efforts and provide comprehensive solutions for lubrication issues.

THE RIGHT VALUES

THE RIGHT CHOICE

Choose Lubrication Scientifics products to improve asset life, increase reliability, improve uptime, save energy and lubricate 24/7 without shutdown. Start today to protect your investments and automate your maintenance operations by contacting Lubrication Scientifics for a meeting with one of our experienced design specialists.

MADE IN THE U.S.A.



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BULLETIN: LSM000 LAST REVISED: 10/02/2018 2

SERIES PROGRESSIVE

BENEFITS & FEATURES

Carbon steel, 303 stainless steel, and 316 stainless steel valve construction.

Large footprint, high output, series progressive divider valve for heavy industry applications

Available in high output / standard pressure oil and grease applications

Designed with feedback for monitoring system performance

From 1-20 lube points per valve assembly delivers frequent and measured amounts of grease to each lubrication point















BULLETIN: LSM000 LAST REVISED: 10/02/2018

INJECTORS

BENEFITS & FEATURES

Improved seal design and internal flow

Capable of pumping long distances and within a wide range of templates and the system remains operational if one point becomes blocked

Injectors can be stand alone or assembled in multiple injector manifolds in carbon steel, 303 stainless steel, and 316 stainless steel construction

Designed for use in food/beverage processing, packaging, pulp & paper mills, mining, steel, power generation, automotive, and many other industries with lubrication applications from oil to #2 grease.

External adjustable outputs from .001-.50 CU-IN with pressure ratings up to 6000 PSI



BULLETIN: LSM000 LAST REVISED: 10/02/2018 4

DUAL LINE SERIES

BENEFITS & FEATURES

The dual line series are designed for large machines/equipment with many lubrication points with long lines over great distances and are perfect for harsh environments

Specifically designed for heavy industry applications including: metal working plants, pulp and paper, mining, mineral processing, cement factories, power plants, deck cranes, and many more

Flexibility in adjusting metered quantity and parallel metering device setup guarantees simple system design and ease of use









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PUMPS

BENEFITS & FEATURES

LPE Series Electric motorized pumps available in 12 & 24 volt models

Box Pumps are designed with pump hardware & components that are prefect for high pressure applications and are sturdy and durable

LMPP Pump Packages available with low level & high pressure switch options

Interfaces with PLC or lube system controller

Electric Barrel Pump packages have a max pressure up to 7500 PSI













ACCESSORIES



Please visit: https://www.lubricationscientifics.com/products/accessories for a complete list of all accessories.



BULLETIN: LSM000 LAST REVISED: 10/02/2018 7

LUBRICATION SCIENTIFICS, LLC

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



LCIV CHEMICAL INJECTION DIVIDER VALVES

VALVE COMPONENTS—ACCESSORIES









CHEMICAL INJECTION DIVIDER VALVES

PRODUCT DESCRIPTION

SPECIFICALLY DESIGNED VALVES FOR CHEMICAL INJECTION APPLICATIONS

ALL PRODUCTS THAT UTILIZE O-RING SEALS ARE OFFERED IN FLUOROSILICONE, AFLAS, & TEFLON MATERIALS

AVAILABLE IN CRS, 303, & 316 STAINLESS
STEEL

PISTONS ARE MADE OUT OF A SELF-LUBRICATING PEEK PISTON

SYSTEM MONITORING AVAILABLE

SMALL AND LARGE FOOT PRINT VALVES

AVAILABLE

PRODUCTS ARE SPECIFICALLY DESIGNED TO WITHSTAND THE HARSHNESS OF CHEMICAL APPLICATIONS

BENEFITS & FEATURES

CHEMICAL RESISTANT VALVES USE SELF-LUBRICATING
PEEK PISTONS

SUPPLIED WITH YOUR CHOICE OF FLUOROSILICONE,
AFLAS, OR TEFLON O-RINGS DEPENDING ON
CHEMICAL APPLICATION

AVAILABLE IN O-RING, NPTF, OR SAE (DEPENDENT ON CHEMICAL APPLICATION)

CARBON STEEL, 303, & 316 STAINLESS STEEL VALVES

AVAILABLE

AVAILABLE IN SMALL & LARGE OUTPUT VOLUMES

SMALL VOLUME SYSTEMS AVAILABLE IN STANDARD &
HIGH SYSTEM PRESSURES

THE ONLY PEEK PISTON VALVES THAT CAN BE MONITORED WITH OUR FIELD SENSITIVE PROXIMITY SWITCHES

READY FOR IMMEDIATE SHIPMENT

MADE IN



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VALVES AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

HEMICAL INJECTION SYSTEMS LSP/LHP VALVES WITH PEEK PISTONS	VALVE WITH FLUOROSILICONE O-RINGS	VALVE WITH AFLAS O-RINGS	VALVE WITH TEFLON O-RINGS
/ALVE, PLATED CRS, W/SS CAPS & MTG BOLTS	CRS W/FL	CRS W/AF	CRS W/TE
SIZE 20, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-020S-PPS-000-FL	LCIV-020S-PPS-000-AF	LCIV-020S-PPS-000-TE
SIZE 20, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-020T-PPS-000-FL	LCIV-020T-PPS-000-AF	LCIV-020T-PPS-000-TE
SIZE 40, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-040S-PPS-000-FL	LCIV-040S-PPS-000-AF	LCIV-040S-PPS-000-TE
SIZE 40, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-040T-PPS-000-FL	LCIV-040T-PPS-000-AF	LCIV-040T-PPS-000-TE
ALVE, PLATED CRS, W/SS CAPS & MTG BOLTS	CRS W/FL	CRS W/AF	CRS W/TE
SIZE 20, SINGLE OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-020S-PPH-000-FL	LCIV-020S-PPH-000-AF	LCIV-020S-PPH-000-TE
SIZE 20, TWIN OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-020T-PPH-000-FL	LCIV-020T-PPH-000-AF	LCIV-020T-PPH-000-TE
SIZE 40, SINGLE OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-040S-PPH-000-FL	LCIV-040S-PPH-000-AF	LCIV-040S-PPH-000-TE
SIZE 40, TWIN OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-040T-PPH-000-FL	LCIV-040T-PPH-000-AF	LCIV-040T-PPH-000-TE
ALVE, 303 STAINLESS, W/SS 303 CAPS & MTG BOLTS	SS303 W/FL	SS303 W/AF	SS303 W/TE
SIZE 20, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-020S-PPS-303-FL	LCIV-020S-PPS-303-AF	LCIV-020S-PPS-303-TE
SIZE 20, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-020T-PPS-303-FL	LCIV-020T-PPS-303-AF	LCIV-020T-PPS-303-TE
SIZE 40, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-040S-PPS-303-FL	LCIV-040S-PPS-303-AF	LCIV-040S-PPS-303-TE
SIZE 40, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-040T-PPS-303-FL	LCIV-040T-PPS-303-AF	LCIV-040T-PPS-303-TE
ALVE, 303 STAINLESS, W/SS 303 CAPS & MTG BOLTS	SS303 W/FL	SS303 W/AF	SS303 W/TE
SIZE 20, SINGLE OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-020S-PPH-303-FL	LCIV-020S-PPH-303-AF	LCIV-020S-PPH-303-TE
SIZE 20, TWIN OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-020T-PPH-303-FL	LCIV-020T-PPH-303-AF	LCIV-020T-PPH-303-TE
SIZE 40, SINGLE OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-040S-PPH-303-FL	LCIV-040S-PPH-303-AF	LCIV-040S-PPH-303-TE
SIZE 40, TWIN OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-040T-PPH-303-FL	LCIV-040T-PPH-303-AF	LCIV-040T-PPH-303-TE
VALVE, 316 STAINLESS, W/SS316 CAPS & MTG BOLTS	SS316 W/FL	SS316 W/AF	SS316 W/TE
SIZE 20, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-020S-PPS-316-FL	LCIV-020S-PPS-316-AF	LCIV-020S-PPS-316-TE
SIZE 20, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-020T-PPS-316-FL	LCIV-020T-PPS-316-AF	LCIV-020T-PPS-316-TE
SIZE 40, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-040S-PPS-316-FL	LCIV-040S-PPS-316-AF	LCIV-040S-PPS-316-TE
SIZE 40, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-040T-PPS-316-FL	LCIV-040T-PPS-316-AF	LCIV-040T-PPS-316-TE
VALVE, 316 STAINLESS, W/SS 316 CAPS & MTG BOLTS	SS316 W/FL	SS316 W/AF	SS316 W/TE
SIZE 20, SINGLE OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-020S-PPH-316-FL	LCIV-020S-PPH-316-AF	LCIV-020S-PPH-316-TE
SIZE 20, TWIN OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-020T-PPH-316-FL	LCIV-020T-PPH-316-AF	LCIV-020T-PPH-316-TE
SIZE 40, SINGLE OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-040S-PPH-316-FL	LCIV-040S-PPH-316-AF	LCIV-040S-PPH-316-TE
SIZE 40, TWIN OUTPUT, W/ PEEK PISTON, HIGH PRESSURE	LCIV-040T-PPH-316-FL	LCIV-040T-PPH-316-AF	LCIV-040T-PPH-316-TE
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BYPASS VALVES

BYPASS VALVES ARE PERFECT FOR LEAVING SPACE IN THE VALVE ASSEMBLY FOR ADDITIONAL VALVES & OUTPUTS TO BE ADDED LATER IN TIME.

BYPASS VALVES ALLOW FUTURE VALVE/OUTPUT ADDITIONS.

LOW TO MEDIUM VOLUME SYSTEMS

BYPASS VALVES AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LSP/LHP BYPASS VALVE SECTIONS	VALVE WITH FLUOROSILICONE O-RINGS	VALVE WITH AFLAS O-RINGS	VALVE WITH TEFLON O-RINGS
BYPASS VALVE, PLATED CRS, W/SS CAPS & MTG BOLTS	CRS W/FL	CRS W/AF	CRS W/TE
BYPASS VALVE PLATED CRS	LCIV-BYPASS-000-FL	LCIV-BYPASS-000-AF	LCIV-BYPASS-000-TE
BYPASS VALVE, 303 SS, W/ 303 SS CAPS & MTG BOLTS	303 W/FL	303 W/AF	303 W/TE
BYPASS VALVE 303 STAINLESS STEEL	LCIV-BYPASS-303-FL	LCIV-BYPASS-303-AF	LCIV-BYPASS-303-TE
BYPASS VALVE, 316 SS, W/ 316 SS CAPS & MTG BOLTS	316 W/FL	316 W/AF	316 W/TE
BYPASS VALVE 316 STAINLESS STEEL	LCIV-BYPASS-316-FL	LCIV-BYPASS-316-AF	LCIV-BYPASS-316-TE

HIGH VOLUME SYSTEMS

BYPASS VALVES AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LMXP BYPASS VALVE SECTIONS	VALVE WITH FLUOROSILICONE O-RINGS	VALVE WITH AFLAS O-RINGS	VALVE WITH TEFLON O-RINGS
BYPASS VALVE, PLATED CRS, W/SS CAPS & MTG BOLTS	CRS W/FL	CRS W/AF	CRS W/TE
BYPASS VALVE PLATED CRS	XLCIV-BYPASS-000-FL	XLCIV-BYPASS-000-AF	XLCIV-BYPASS-000-TE
BYPASS VALVE, 303 SS, W/ 303 SS CAPS & MTG BOLTS	303 W/FL	303 W/AF	303 W/TE
BYPASS VALVE 303 STAINLESS STEEL	XLCIV-BYPASS-303-FL	XLCIV-BYPASS-303-AF	XLCIV-BYPASS-303-TE
BYPASS VALVE, 316 SS, W/ 316 SS CAPS & MTG BOLTS	316 W/FL	316 W/AF	316 W/TE
BYPASS VALVE 316 STAINLESS STEEL	XLCIV-BYPASS-316-FL	XLCIV-BYPASS-316-AF	XLCIV-BYPASS-316-TE

PLATED CARBON STEEL

BASEPLATE ASSEMBLIES

AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LSP/LHP BASEPLATE ASSEMBLIES PLATED CRS W/ SS TIE RODS NO INTERNAL CHECK VALVES, USE EXTERNAL CHECK VALVES ONLY.	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
1/4-18 NPSF INLET - 1/8-27 NPSF OUTLETS	NPSF	NPSF	NPSF
3 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-03-NPSF-000-FL	BPA-03-NPSF-000-AF	BPA-03-NPSF-000-TE
4 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-04-NPSF-000-FL	BPA-04-NPSF-000-AF	BPA-04-NPSF-000-TE
5 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-05-NPSF-000-FL	BPA-05-NPSF-000-AF	BPA-05-NPSF-000-TE
6 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-06-NPSF-000-FL	BPA-06-NPSF-000-AF	BPA-06-NPSF-000-TE
7 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-07-NPSF-000-FL	BPA-07-NPSF-000-AF	BPA-07-NPSF-000-TE
8 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-08-NPSF-000-FL	BPA-08-NPSF-000-AF	BPA-08-NPSF-000-TE
1/4-18 NPSF INLET - 1/8-27 O RING OUTLETS	ORS	ORS	ORS
3 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-03-ORS-000-FL	BPA-03-ORS-000-AF	BPA-03-ORS-000-TE
4 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-04-ORS-000-FL	BPA-04-ORS-000-AF	BPA-04-ORS-000-TE
5 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-05-ORS-000-FL	BPA-05-ORS-000-AF	BPA-05-ORS-000-TE
6 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-06-ORS-000-FL	BPA-06-ORS-000-AF	BPA-06-ORS-000-TE
7 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-07-ORS-000-FL	BPA-07-ORS-000-AF	BPA-07-ORS-000-TE
8 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-08-ORS-000-FL	BPA-08-ORS-000-AF	BPA-08-ORS-000-TE
7/16-20 SAE INLET - 7/16-20 SAE OUTLETS	SAE	SAE	SAE
3 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-03-SAE-000-FL	BPA-03-SAE-000-AF	BPA-03-SAE-000-TE
4 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-04-SAE-000-FL	BPA-04-SAE-000-AF	BPA-04-SAE-000-TE
5 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-05-SAE-000-FL	BPA-05-SAE-000-AF	BPA-05-SAE-000-TE
6 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-06-SAE-000-FL	BPA-06-SAE-000-AF	BPA-06-SAE-000-TE
7 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-07-SAE-000-FL	BPA-07-SAE-000-AF	BPA-07-SAE-000-TE
8 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-08-SAE-000-FL	BPA-08-SAE-000-AF	BPA-08-SAE-000-TE

303 STAINLESS STEEL

BASEPLATE ASSEMBLIES

AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LSP/LHP BASEPLATE ASSEMBLIES 303 STAINLESS STEEL W/ 303SS TIE RODS NO INTERNAL CHECK VALVES, USE EXTERNAL CHECK VALVES ONLY.	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
1/4-18 NPSF INLET - 1/8-27 NPSF OUTLETS	NPSF	NPSF	NPSF
3 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-03-NPSF-303-FL	BPA-03-NPSF-303-AF	BPA-03-NPSF-303-TE
4 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-04-NPSF-303-FL	BPA-04-NPSF-303-AF	BPA-04-NPSF-303-TE
5 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-05-NPSF-303-FL	BPA-05-NPSF-303-AF	BPA-05-NPSF-303-TE
6 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-06-NPSF-303-FL	BPA-06-NPSF-303-AF	BPA-06-NPSF-303-TE
7 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-07-NPSF-303-FL	BPA-07-NPSF-303-AF	BPA-07-NPSF-303-TE
8 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-08-NPSF-303-FL	BPA-08-NPSF-303-AF	BPA-08-NPSF-303-TE
1/4-18 NPSF INLET - 1/8-27 O RING OUTLETS	ORS	ORS	ORS
3 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-03-ORS-303-FL	BPA-03-ORS-303-AF	BPA-03-ORS-303-TE
4 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-04-ORS-303-FL	BPA-04-ORS-303-AF	BPA-04-ORS-303-TE
5 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-05-ORS-303-FL	BPA-05-ORS-303-AF	BPA-05-ORS-303-TE
6 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-06-ORS-303-FL	BPA-06-ORS-303-AF	BPA-06-ORS-303-TE
7 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-07-ORS-303-FL	BPA-07-ORS-303-AF	BPA-07-ORS-303-TE
8 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-08-ORS-303-FL	BPA-08-ORS-303-AF	BPA-08-ORS-303-TE
7/16-20 SAE INLET - 7/16-20 SAE OUTLETS	SAE	SAE	SAE
3 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-03-SAE-303-FL	BPA-03-SAE-303-AF	BPA-03-SAE-303-TE
4 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-04-SAE-303-FL	BPA-04-SAE-303-AF	BPA-04-SAE-303-TE
5 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-05-SAE-303-FL	BPA-05-SAE-303-AF	BPA-05-SAE-303-TE
6 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-06-SAE-303-FL	BPA-06-SAE-303-AF	BPA-06-SAE-303-TE
7 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-07-SAE-303-FL	BPA-07-SAE-303-AF	BPA-07-SAE-303-TE
8 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-08-SAE-303-FL	BPA-08-SAE-303-AF	BPA-08-SAE-303-TE

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316 STAINLESS STEELBASEPLATE ASSEMBLIES

AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LSP/LHP BASEPLATE ASSEMBLIES 316 STAINLESS STEEL W/ 316SS TIE RODS NO INTERNAL CHECK VALVES, USE EXTERNAL CHECK VALVES ONLY.	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
1/4-18 NPSF INLET - 1/8-27 NPSF OUTLETS	NPSF	NPSF	NPSF
3 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-03-NPSF-316-FL	BPA-03-NPSF-316-AF	BPA-03-NPSF-316-TE
4 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-04-NPSF-316-FL	BPA-04-NPSF-316-AF	BPA-04-NPSF-316-TE
5 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-05-NPSF-316-FL	BPA-05-NPSF-316-AF	BPA-05-NPSF-316-TE
6 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-06-NPSF-316-FL	BPA-06-NPSF-316-AF	BPA-06-NPSF-316-TE
7 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-07-NPSF-316-FL	BPA-07-NPSF-316-AF	BPA-07-NPSF-316-TE
8 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	BPA-08-NPSF-316-FL	BPA-08-NPSF-316-AF	BPA-08-NPSF-316-TE
1/4-18 NPSF INLET - 1/8-27 O RING OUTLETS	ORS	ORS	ORS
3 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-03-ORS-316-FL	BPA-03-ORS-316-AF	BPA-03-ORS-316-TE
4 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-04-ORS-316-FL	BPA-04-ORS-316-AF	BPA-04-ORS-316-TE
5 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-05-ORS-316-FL	BPA-05-ORS-316-AF	BPA-05-ORS-316-TE
6 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-06-ORS-316-FL	BPA-06-ORS-316-AF	BPA-06-ORS-316-TE
7 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-07-ORS-316-FL	BPA-07-ORS-316-AF	BPA-07-ORS-316-TE
8 Section Assy, NPSF Inlet, 1/8 ORS Outlets, Std Mtg	BPA-08-ORS-316-FL	BPA-08-ORS-316-AF	BPA-08-ORS-316-TE
7/16-20 SAE INLET - 7/16-20 SAE OUTLETS	SAE	SAE	SAE
3 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-03-SAE-316-FL	BPA-03-SAE-316-AF	BPA-03-SAE-316-TE
4 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-04-SAE-316-FL	BPA-04-SAE-316-AF	BPA-04-SAE-316-TE
5 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-05-SAE-316-FL	BPA-05-SAE-316-AF	BPA-05-SAE-316-TE
6 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-06-SAE-316-FL	BPA-06-SAE-316-AF	BPA-06-SAE-316-TE
7 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-07-SAE-316-FL	BPA-07-SAE-316-AF	BPA-07-SAE-316-TE
8 Section Assy, 7/16 SAE Inlet, 7/16 SAE Outlets, Std Mtg	BPA-08-SAE-316-FL	BPA-08-SAE-316-AF	BPA-08-SAE-316-TE

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ORDERING INFORMATION & PART NUMBERS INTERMEDIATE VALVE SECTIONS

CARBON & STAINLESS STEEL DIVIDER VALVES

STANDARD FOOTPRINT, STANDARD PRESSURE (3500 PSI)
ROHS COMPLIANT CLEAR ZINC PLAITING (CRS ONLY)
SUPPLIED WITH ONLY STAINLESS STEEL CAPS AND MOUNTING BOLTS

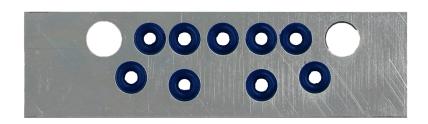
ALL VALVES HAVE 1/8-27 NPSF FRONT FACE ALTERNATE OUTLETS. ALL VALVES MAY BE VERTICALLY CROSSPORTED ON THE FRONT OUTLETS. ALL VALVES CAN BE EQUIPPED WITH PERFORMANCE/RESET INDICATORS.

STANDARD PACK: 5 EACH, 316 STAINLESS STEEL: 1 EACH

SINGLE OUTPUT PART NUMBER				
SINGLE OUTPUT	CRS	303 SS	316 SS	
.040 CI .656 CC	LCIV-020S-PPS-000	LCIV-020S-PPS-303	LCIV-020S-PPS-316	
.080 CI 1.311 CC	LCIV-040S-PPS-000	LCIV-040S-PPS-303	LCIV-040S-PPS-316	
TWIN OUTPUT	PART NUMBER			
I WIN COTPOT	CRS	303 SS	316 SS	
.020 CI .328 CC	LCIV-020T-PPS-000	LCIV-020T-PPS-303	LCIV-020T-PPS-316	
.040 CI .656 CC	LCIV-040T-PPS-000	LCIV-040T-PPS-303	LCIV-040T-PPS-316	

FOR CRS BYPASS VALVE USE PART NUMBER <u>LCIV-BYPASS-000</u>
FOR 303 SS BYPASS VALVE USE PART NUMBER <u>LCIV-BYPASS-303</u>
FOR 316 SS BYPASS VALVE USE PART NUMBER <u>LCIV-BYPASS-316</u>

LOW TO MEDIUM VOLUME SYSTEMS CROSSPORT BARS KITS





VALVES AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LSP/LHP CROSSPORT BAR KITS	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
CROSSPORT BAR KITS CARBON STEEL			
CROSSPORT BAR (RIGHT)	L527320-FL	L527320-AF	L527320-TE
CROSSPORT BAR (LEFT)	L527330-FL	L527330-AF	L527330-TE
CROSSPORT BAR (BOTH)	L527340-FL	L527340-AF	L527340-TE
CROSSPORT BAR KITS 303 STAINLESS STEEL			
CROSSPORT BAR (RIGHT)	L527320-303-FL	L527320-303-AF	L527320-303-TE
CROSSPORT BAR (LEFT)	L527330-303-FL	L527330-303-AF	L527330-303-TE
CROSSPORT BAR (BOTH)	L527340-303-FL	L527340-303-AF	L527340-303-TE
CROSSPORT BAR KITS 316 STAINLESS STEEL			
CROSSPORT BAR (RIGHT)	L527320-316-FL	L527320-316-AF	L527320-316-TE
CROSSPORT BAR (LEFT)	L527330-316-FL	L527330-316-AF	L527330-316-TE
CROSSPORT BAR (BOTH)	L527340-316-FL	L527340-316-AF	L527340-316-TE

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VALVES AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LMXP VALVES WITH PEEK PISTONS	VALVE WITH FLUOROSILICONE O-RINGS	VALVE WITH AFLAS O-RINGS	VALVE WITH TEFLON O-RINGS
VALVE, PLATED CRS, W/SS CAPS & MTG BOLTS	CRS W/FL	CRS W/AF	CRS W/TE
SIZE 75, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-075S-PPS-000-FL	LCIV-075S-PPS-000-AF	LCIV-075S-PPS-000-TE
SIZE 75, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-075T-PPS-000-FL	LCIV-075T-PPS-000-AF	LCIV-075T-PPS-000-TE
SIZE 150, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-150S-PPS-000-FL	LCIV-150S-PPS-000-AF	LCIV-150S-PPS-000-TE
SIZE 150, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-150T-PPS-000-FL	LCIV-150T-PPS-000-AF	LCIV-150T-PPS-000-TE
VALVE, 303 STAINLESS, W/SS 303 CAPS & MTG BOLTS	SS303 W/FL	SS303 W/AF	SS303 W/TE
SIZE 75, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-075S-PPS-303-FL	LCIV-075S-PPS-303-AF	LCIV-075S-PPS-303-TE
SIZE 75, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-075T-PPS-303-FL	LCIV-075T-PPS-303-AF	LCIV-075T-PPS-303-TE
SIZE 150, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-150S-PPS-303-FL	LCIV-150S-PPS-303-AF	LCIV-150S-PPS-303-TE
SIZE 150, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-150T-PPS-303-FL	LCIV-150T-PPS-303-AF	LCIV-150T-PPS-303-TE
VALVE, 316 STAINLESS, W/SS316 CAPS & MTG BOLTS	SS316 W/FL	SS316 W/AF	SS316 W/TE
SIZE 75, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-075S-PPS-316-FL	LCIV-075S-PPS-316-AF	LCIV-075S-PPS-316-TE
SIZE 75, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-075T-PPS-316-FL	LCIV-075T-PPS-316-AF	LCIV-075T-PPS-316-TE
SIZE 150, SINGLE OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-150S-PPS-316-FL	LCIV-150S-PPS-316-AF	LCIV-150S-PPS-316-TE
SIZE 150, TWIN OUTPUT, W/ PEEK PISTON, STD PRESSURE	LCIV-150T-PPS-316-FL	LCIV-150T-PPS-316-AF	LCIV-150T-PPS-316-TE

ORDERING INFORMATION & PART NUMBERS

LMXP HIGH OUTPUT MODULAR DIVIDER VALVES

STANDARD PACK: 1 EACH			
VALVE OUTPUT	CARBON STEEL	303 STAINLESS	316 STAINLESS
75S .150. CU. IN. .2.459 CC	LCIV-075S-PPS-000	LCIV-075S-PPS-303	
75T .075 CU. IN. 1.230 CC	LCIV-075T-PPS-000	LCIV-075T-PPS-303	
150S .300 CU. IN. 4.917 CC	LCIV-150S-PPS-000		LCIV-150S-PPS-316
150T .150 CU. IN. 2.459 CC	LCIV-150T-PPS-000		LCIV-150T-PPS-316

FOR VALVES WITH CYCLE INDICATOR PIN, ADD SUFFIX: - RHCIP TO ABOVE PART NUMBER. SEE EXAMPLE:

CARBON STEEL MODELS: 132-025S-RHCIP

316 MODELS: **132-050S-RHCIP-316**

PLATED CARBON STEEL

BASEPLATE ASSEMBLIES

AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LMXP BASEPLATE ASSEMBLIES PLATED CRS W/ SS TIE RODS NO INTERNAL CHECK VALVES, USE EXTERNAL CHECK VALVES ONLY.	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
3/8-18 NPSF INLET - 1/4-18 NPSF OUTLETS	NPSF	NPSF	NPSF
3 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-03-NPSF-000-FL	XBPA-03-NPSF-000-AF	XBPA-03-NPSF-000-TE
4 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-04-NPSF-000-FL	XBPA-04-NPSF-000-AF	XBPA-04-NPSF-000-TE
5 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-05-NPSF-000-FL	XBPA-05-NPSF-000-AF	XBPA-05-NPSF-000-TE
6 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-06-NPSF-000-FL	XBPA-06-NPSF-000-AF	XBPA-06-NPSF-000-TE
7 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-07-NPSF-000-FL	XBPA-07-NPSF-000-AF	XBPA-07-NPSF-000-TE
8 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-08-NPSF-000-FL	XBPA-08-NPSF-000-AF	XBPA-08-NPSF-000-TE
3/4-16 SAE INLET - 9/16-18 SAE OUTLETS	SAE	SAE	SAE
3 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-03-SAE-000-FL	XBPA-03-SAE-000-AF	XBPA-03-SAE-000-TE
4 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-04-SAE-000-FL	XBPA-04-SAE-000-AF	XBPA-04-SAE-000-TE
5 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-05-SAE-000-FL	XBPA-05-SAE-000-AF	XBPA-05-SAE-000-TE
6 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-06-SAE-000-FL	XBPA-06-SAE-000-AF	XBPA-06-SAE-000-TE
7 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-07-SAE-000-FL	XBPA-07-SAE-000-AF	XBPA-07-SAE-000-TE
8 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-08-SAE-000-FL	XBPA-08-SAE-000-AF	XBPA-08-SAE-000-TE

303 STAINLESS STEEL

BASEPLATE ASSEMBLIES

AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LMXP BASEPLATE ASSEMBLIES 303 STAINLESS STEEL W/ SS 303 TIE RODS NO INTERNAL CHECK VALVES, USE EXTERNAL CHECK VALVES ONLY.	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
3/8-18 NPSF INLET - 1/4-18 NPSF OUTLETS	NPSF	NPSF	NPSF
3 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-03-NPSF-303-FL	XBPA-03-NPSF-303-AF	XBPA-03-NPSF-303-TE
4 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-04-NPSF-303-FL	XBPA-04-NPSF-303-AF	XBPA-04-NPSF-303-TE
5 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-05-NPSF-303-FL	XBPA-05-NPSF-303-AF	XBPA-05-NPSF-303-TE
6 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-06-NPSF-303-FL	XBPA-06-NPSF-303-AF	XBPA-06-NPSF-303-TE
7 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-07-NPSF-303-FL	XBPA-07-NPSF-303-AF	XBPA-07-NPSF-303-TE
8 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-08-NPSF-303-FL	XBPA-08-NPSF-303-AF	XBPA-08-NPSF-303-TE
3/4-16 SAE INLET - 9/16-18 SAE OUTLETS	SAE	SAE	SAE
3 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-03-SAE-303-FL	XBPA-03-SAE-303-AF	XBPA-03-SAE-303-TE
4 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-04-SAE-303-FL	XBPA-04-SAE-303-AF	XBPA-04-SAE-303-TE
5 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-05-SAE-303-FL	XBPA-05-SAE-303-AF	XBPA-05-SAE-303-TE
6 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-06-SAE-303-FL	XBPA-06-SAE-303-AF	XBPA-06-SAE-303-TE
7 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-07-SAE-303-FL	XBPA-07-SAE-303-AF	XBPA-07-SAE-303-TE
8 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-08-SAE-303-FL	XBPA-08-SAE-303-AF	XBPA-08-SAE-303-TE

316 STAINLESS STEEL

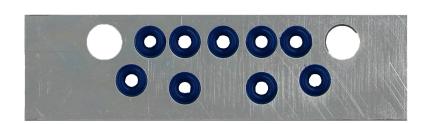
BASEPLATE ASSEMBLIES

AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LMXP BASEPLATE ASSEMBLIES 316 STAINLESS STEEL W/ SS 316 TIE RODS NO INTERNAL CHECK VALVES, USE EXTERNAL CHECK VALVES ONLY.	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
3/8-18 NPSF INLET - 1/4-18 NPSF OUTLETS	NPSF	NPSF	NPSF
3 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-03-NPSF-316-FL	XBPA-03-NPSF-316-AF	XBPA-03-NPSF-316-TE
4 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-04-NPSF-316-FL	XBPA-04-NPSF-316-AF	XBPA-04-NPSF-316-TE
5 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-05-NPSF-316-FL	XBPA-05-NPSF-316-AF	XBPA-05-NPSF-316-TE
6 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-06-NPSF-316-FL	XBPA-06-NPSF-316-AF	XBPA-06-NPSF-316-TE
7 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-07-NPSF-316-FL	XBPA-07-NPSF-316-AF	XBPA-07-NPSF-316-TE
8 Section Assy, NPSF Inlet, NPSF Outlets, Std Mtg	XBPA-08-NPSF-316-FL	XBPA-08-NPSF-316-AF	XBPA-08-NPSF-316-TE
3/4-16 SAE INLET - 9/16-18 SAE OUTLETS	SAE	SAE	SAE
3 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-03-SAE-316-FL	XBPA-03-SAE-316-AF	XBPA-03-SAE-316-TE
4 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-04-SAE-316-FL	XBPA-04-SAE-316-AF	XBPA-04-SAE-316-TE
5 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-05-SAE-316-FL	XBPA-05-SAE-316-AF	XBPA-05-SAE-316-TE
6 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-06-SAE-316-FL	XBPA-06-SAE-316-AF	XBPA-06-SAE-316-TE
7 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-07-SAE-316-FL	XBPA-07-SAE-316-AF	XBPA-07-SAE-316-TE
8 Section Assy, SAE Inlet, SAE Outlets, Std Mtg	XBPA-08-SAE-316-FL	XBPA-08-SAE-316-AF	XBPA-08-SAE-316-TE

HIGH VOLUME SYSTEMS CROSSPORT BAR KITS





AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

CHEMICAL INJECTION SYSTEMS LMXP CROSS BAR KITS	ASSEMBLY WITH FLUOROSILICONE O-RINGS	ASSEMBLY WITH AFLAS O-RINGS	ASSEMBLY WITH TEFLON O-RINGS
CROSSPORT BAR KITS CARBON STEEL			
CROSSPORT BAR (RIGHT)	L527980-FL	L527980-AF	L527980-TE
CROSSPORT BAR (LEFT)	L527970-FL	L527970-AF	L527970-TE
CROSSPORT BAR (BOTH)	L527990-FL	L527990-AF	L527990-TE
VROSSPORT BAR KITS 303 STAINLESS STEEL			
CROSSPORT BAR (RIGHT)	L527980-303-FL	L527980-303-AF	L527980-303-TE
CROSSPORT BAR (LEFT)	L527970-303-FL	L527970-303-AF	L527970-303-TE
CROSSPORT BAR (BOTH)	L527990-303-FL	L527990-303-AF	L527990-303-TE
CROSSPORT BAR KITS 316 STAINLESS STEEL			
CROSSPORT BAR (RIGHT)	L527980-316-FL	L527980-316-AF	L527980-316-TE
CROSSPORT BAR (LEFT)	L527970-316-FL	L527970-316-AF	L527970-316-TE
CROSSPORT BAR (BOTH)	L527990-316-FL	L527990-316-AF	L527990-316-TE

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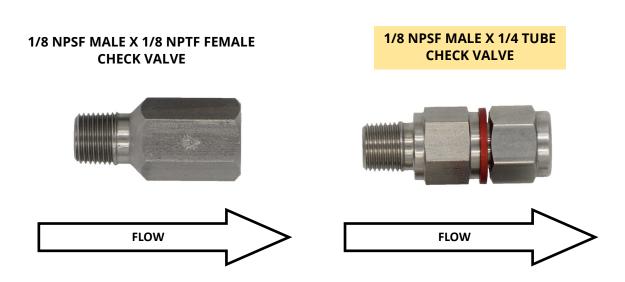
OUTLET CHECK VALVES

WHENEVER CHEMICAL INJECTION DIVIDER VALVES ARE REPLACED, <u>ALWAYS</u> REPLACE ALL CHECK VALVES IN ALL PLACES.

NPSF CHECK VALVES					
STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION				PART NUMBER	
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	FITTING REQUIREMENTS
1/8" NPSF (M)	1/8" NPTF (F)	35 / 2.41	OCV-303-125R-35	OCV-316-125R-35	TUBE FITTING
1/8" NPSF (M)	1/8" NPTF (F)	60 / 4.13	OCV-303-125R-60	OCV-316-125R-60	TUBE FITTING
1/8" NPSF (M)	1/8" NPTF (F)	250 / 17.23	OCV-303-125R-250	OCV-316-125R-250	TUBE FITTING
1/8" NPTF (M)	1/4" TUBE	35 / 2.41	OCV-303-125-NPTF	OCV-316-125-NPTF	INTEGRAL TUBE FITTING

AVAILABLE IN ALL THREE O-RING TYPES. PLEASE SPECIFY O-RING MATERIAL

REFER TO THE PARKER O-RING HAND BOOK OR OTHER CREDIBLE SOURCES TO DETERMINE O-RING CHEMICAL COMPATIBILITY

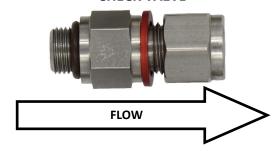


OUTLET CHECK VALVES

WHENEVER CHEMICAL INJECTION DIVIDER VALVES ARE REPLACED, <u>ALWAYS</u> REPLACE ALL CHECK VALVES IN ALL PLACES.

O-RING SEAL CHECK VALVES					
STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION				PART NUMBER	
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	O-RING MATERIAL
1/8" ORS (M)	1/4" TUBE	35 / 2.41	OCV-303-125-ORS-FL	OCV-316-125-ORS-FL	FLUOROSILICONE
1/8" ORS (M)	1/4" TUBE	35 / 2.41	OCV-303-125-ORS-AF	OCV-316-125-ORS-AF	AFLAS
1/8" ORS (M)	1/4" TUBE	35 / 2.41	OCV-303-125-ORS-TE	OCV-316-125-ORS-TE	TEFLON

O-RING SEAL TO 1/4" TUBE OUTLET CHECK VALVE



SAE O-RING SEAL CHECK VALVES

STANDARD PACK: 5 EACH

CHECK V	ALVE DESCRI	PTION	PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	O-RING MATERIAL
7/16"-20 SAE (M)	1/4" TUBE	35 / 2.41	OCV-303-125-SAE-FL	OCV-316-125-SAE-FL	FLUOROSILICONE
7/16"-20 SAE (M)	1/4" TUBE	35 / 2.41	OCV-303-125-SAE-AF	OCV-316-125-SAE-AF	AFLAS
7/16"-20 SAE (M)	1/4" TUBE	35 / 2.41	OCV-303-125-SAE-TE	OCV-316-125-SAE-TE	TEFLON

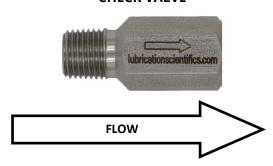
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OUTLET CHECK VALVES

WHENEVER CHEMICAL INJECTION DIVIDER VALVES ARE REPLACED, <u>ALWAYS</u> REPLACE ALL CHECK VALVES IN ALL PLACES.

NPSF CHECK VALVES					
STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	FITTING REQUIREMENTS
1/4"NPTF (M)	1/4" NPSF (F)	35 / 2.41	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING

MALE X FEMALE CHECK VALVE



SAE CHECK VALVES STANDARD PACK: 5 EACH **CHECK VALVE DESCRIPTION** PART NUMBER **BALL OPEN FITTING INLET SIZE OUTLET SIZE 303 STAINLESS** 316 STAINLESS PSI / BAR **REQUIREMENTS** 45 / 3.10 OCV-303-562R-45 OCV-316-562R-45 **TUBE FITTING** 9/16-18 SAE (M) 9/16-18 SAE (F) 9/16-18 SAE (M) 9/16-18 SAE (F) 45 / 3.10 OCV-303-562R-45 OCV-316-562R-45 **TUBE FITTING**

OCV-303-562R-45

OCV-316-562R-45

TUBE FITTING

9/16-18 SAE (M)

9/16-18 SAE (F)

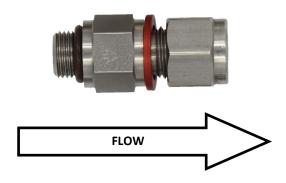
45 / 3.10

OUTLET CHECK VALVES

WHENEVER CHEMICAL INJECTION DIVIDER VALVES ARE REPLACED, <u>ALWAYS</u> REPLACE ALL CHECK VALVES IN ALL PLACES.

SAE O-RING CHECK VALVES					
STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION				PART NUMBER	
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	O-RING MATERIAL
9/16-18 SAE (M)	3/8" TUBE	45 / 3.10	OCV-303-916SAE-6-FL	OCV-316-916SAE-6-FL	FLUOROSILICONE
9/16-18 SAE (M)	3/8" TUBE	45 / 3.10	OCV-303-916SAE-6-AF	OCV-316-916SAE-6-AF	AFLAS
9/16-18 SAE (M)	3/8" TUBE	45 / 3.10	OCV-303-916SAE-6-TE	OCV-316-916SAE-6-TE	TEFLON

O-RING SAE MALE X 3/8" TUBE CHECK VALVE



CHEMICAL INJECTION SYSTEM—ADDITIONAL ACCESSORIES FILTRATION

316 STAINLESS DIRT TRAP FILTER ASSEMBLY

1/4 NPSF & 3/8 NPSF INLETS & OUTLETS
316 STAINLESS STEEL FILTER ELEMENTS

MUST SPECIFY O-RING MATERIAL

STANDARD PACK: 1 EACH					
FILTER RATING	316 STAINLESS STE	EL ASSEMBLY W/ O-RI	NG MATERIAL TYPE		
	FLUOROSILICONE	AFLAS	TEFLON		
5 MICRON	DTFA-005-O-316-FL	DTFA-005-O-316-AF	DTFA-005-O-316-TE		
10 MICRON	DTFA-010-O-316-FL	DTFA-010-O-316-AF	DTFA-010-O-316-TE		
25 MICRON	DTFA-025-O-316-FL	DTFA-025-O-316-AF	DTFA-025-O-316-TE		
150 MICRON 100 MESH	DTFA-100-G-316-FL	DTFA-100-G-316-AF	DTFA-100-G-316-TE		
420 MICRON 40 MESH	DTFA-040-G-316-FL	DTFA-040-G-316-AF	DTFA-040-G-316-TE		



DIRT TRAP REPLACEMENT ELEMENT



STANDARD PACK: 1 EACH					
	PART NUI	MBER W/ O-RING MATE	RIAL TYPE		
FILTER RATING	FLUOROSILICONE	AFLAS	TEFLON		
5 MICRON	DT-EL-002-005MIC-FL	DT-EL-002-005MIC-AF	DT-EL-002-005MIC-TE		
10 MICRON	DT-EL-002-010MIC-FL	DT-EL-002-010MIC-AF	DT-EL-002-010MIC-TE		
25 MICRON	DT-EL-002-025MIC-FL	DT-EL-002-025MIC-AF	DT-EL-002-025MIC-TE		
150 MICRON 100 MESH	DT-EL-002-100M-FL	DT-EL-002-100M-AF	DT-EL-002-100M-TE		
420 MICRON 40 MESH	DT-EL-002-40M-FL	DT-EL-002-40M-AF	DT-EL-002-40M-TE		

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CHEMICAL INJECTION SYSTEM—ADDITIONAL ACCESSORIES FILTRATION

INLINE OIL FILTER ASSEMBLY

STAINLESS STEEL CONSTRUCTION
HIGH PRESSURE RATING
REQUIRES TUBE FITTING

STANDARD PACK: 1				
FILTER ASSEMBLY DESCRIPTION	PART NUMBER			
FILTER ASSEMBLY, 3 MICRON, 1/4 NPSFT INLET/OUTLET	HPFA-03M-250-XX			
FILTER ASSEMBLY, 10 MICRON, 1/4 NPSFT INLET/OUTLET	HPFA-10M-250-XX			
FILTER ASSEMBLY, 25 MICRON, 1/4 NPSFT INLET/OUTLET	HPFA-25M-250-XX			



SPECIFY O-RING MATERIAL FOR FILTER ASSEMBLY

O-RING MATERIAL	-XX
FLUOROSILICONE	FL
AFLAS	AF
TEFLON	TE



STANDARD PACK: 1	STANDARD PACK: 1
REPLACEMENT FILTER ELEMENT DESCRIPTION	PART NUMBER
3 MICRON REPLACEMENT FILTER, RATED TO 8000 PSI	HPFE-03M
10 MICRON REPLACEMENT FILTER, RATED TO 8000 PSI	HPFE-10M
25 MICRON REPLACEMENT FILTER, RATED TO 8000 PSI	HPFE-25M

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CHEMICAL INJECTION SYSTEM—ADDITIONAL ACCESSORIES RESET INDICATORS

CHEMICAL RESISTANT PERFORMANCE RESET INDICATORS

STAINLESS STEEL CONSTRUCTION

VARIOUS PRESSURE RATINGS

AVAILABLE IN FLORALSILICONE, AFLAS, OR TEFLON O-RINGS

CHEMICAL RESISTANT PERFORMANCE RESET INDICATORS W/ MEMORY

303 STAINLESS STEEL RESET INDICATOR					
STANDARD PACK: 5 EACH		1/8 NPSF O-RING CONNECTION			
ITEM DESCRIPTION	FLUOROSILICONE	AFLAS	TEFLON		
1,000 PSI / 69 BAR	303-P1000-FL	303-P1000-AF	303-P1000-TE		
1,500 PSI / 103 BAR	303-P1500-FL	303-P1500-AF	303-P1500-TE		
2,000 PSI / 138 BAR	303-P2000-FL	303-P2000-AF	303-P2000-TE		
2,500 PSI / 172 BAR	303-P2500-FL	303-P2500-AF	303-P2500-TE		
3,000 PSI / 207 BAR	303-P3000-FL	303-P3000-AF	303-P3000-TE		
3,500 PSI / 241 BAR	303-P3500-FL	303-P3500-AF	303-P3500-TE		
5,000 PSI / 345 BAR	303-P5000-FL	303-P5000-AF	303-P5000-TE		



316 STAINLESS STEEL RESET INDICATOR					
STANDARD PACK: 5 EACH		1/8 NPSF O-RING CONNECTION			
ITEM DESCRIPTION	FLUOROSILICONE	AFLAS	TEFLON		
1,000 PSI / 69 BAR	316-P1000-FL	316-P1000-AF	316-P1000-TE		
1,500 PSI / 103 BAR	316-P1500-FL	316-P1500-AF	316-P1500-TE		
2,000 PSI / 138 BAR	316-P2000-FL	316-P2000-AF	316-P2000-TE		
2,500 PSI / 172 BAR	316-P2500-FL	316-P2500-AF	316-P2500-TE		
3,000 PSI / 207 BAR	316-P3000-FL	316-P3000-AF	316-P3000-TE		
3,500 PSI / 241 BAR	316-P3500-FL	316-P3500-AF	316-P3500-TE		
5,000 PSI / 345 BAR	316-P5000-FL	316-P5000-AF	316-P5000-TE		

CHEMICAL INJECTION SYSTEM—ADDITIONAL ACCESSORIES

PROXIMITY SWITCHES

STANDARD PACK: 1 EACH						
		PART NUMBER				
ITEM DESCRIPTION	FITS VALVE	FLUOROSILICONE	AFLAS	TEFLON	HAZARD RATING	
PROXIMITY SWITCH, 3 PIN MINI-QUICK DISCONNECT	LSP/LHP LMX/LMXP	L527251-FL L527251-1312-FL	L527251-AF L527251-1312-AF	L527251-AF L527251-1312-AF	NO RATING	
PROXIMITY SWITCH, 4 PIN MINI-QUICK DISCONNECT	LSP/LHP LMX/LMXP	L527112-FL L527112-1312-FL	L527112-AF L527112-1312-AF	L527112-AF L527112-1312-AF	NO RATING	
PROXIMITY SWITCH, 5 PIN MINI-QUICK DISCONNECT	LSP/LHP LMX/LMXP	L527111-FL L527111-1312-FL	L527111-AF L527111-1312-AF	L527111-AF L527111-1312-AF	NO RATING	
PROXIMITY SWITCH, EXPLOSION PROOF, 1/2" NPT WITH LEADS	LSP/LHP LMX/LMXP	L527431-FL L527431-1312-FL	L527431-AF L527431-1312-AF	L527431-AF L527431-1312-AF	CLASS I, GROUPS A,B,C,D CLASS II, GROUPS E,F,G CLASS III	



SPECIFY O-RING TYPE

STANDARD PACK: 1 CABLE			
ITEM DESCRIPTION	12' CABLE PART NUMBER		
12' 3 PIN CABLE	L527251-CBL12		
12' 4 PIN CABLE	L527112-CBL12		
12' 5 PIN CABLE	L527111-CBL12		

PROXIMITY SWITCH SPECIFICATIONS

Specification Description

All Proximity Switches are field sensitive, dry contact, with ceramic magnets. They have a max cycle rate of 200 cycles per minute. A max pressure rating of 7,500 psi. 316 stainless steel construction.

Electrical rating are as follows for all models:

4 Amps @ 120V AC, 2 Amps @ 240V DC, 3 Amps @ 24V DC, .5 Amps @ 125V DC



150,000,000 Cycles



MOUNTING INFORMATION & SPECIFICATIONS

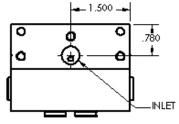
WITH 1.75" STANDARD MOUNTING HOLES

VALVE	A		В	С	D	E
SECTIONS	INCH	mm	INCH			
3	3.585/3.605	91.31	1.75	0.490	0.490	0.281
4	4.510/4.530	114.80	1.75	0.490	0.490	0.281
5	5.435/5.455	138.30	1.75	0.490	0.490	0.281
6	6.360/6.380	1 <i>6</i> 1. <i>7</i> 9	1.75	0.490	0.490	0.281
7	7.285/7.305	185.29	1.75	0.490	0.490	0.281
8	8.210/8.230	208.78	1.75	0.490	0.490	0.281

VALVE	NET WEIGHT		
SECTIONS	LBS.	KG.	
3	5.9	2.7	
4	7.3	3.3	
5	8.7	4.0	
6	10.2	4.6	
7	11.6	5.6	
8	13.0	5.9	

WITH 1.875" MOUNTING HOLES

VALVE	А		В	С	D	E
SECTIONS	INCH	mm		INC	1	
3	3.365/3.385	85.72	1.875	0.292	0.310	0.328
4	4.290/4.310	109.22	1.875	0.292	0.310	0.328
5	5.215/5.235	132.71	1.875	0.292	0.310	0.328
6	6.140/6.160	156.21	1.875	0.292	0.310	0.328
7	7.065/7.085	179.70	1.875	0.292	0.310	0.328
8	7.990/8.010	203.20	1.875	0.292	0.310	0.328



2.180 -**-** 1.618 -1.125 "E" .435 Θ PISTON ENCLOSURE PLUG **(**0) 0 .925 INDICATOR PORT (TYPICAL) **(**0) "A" (0) ٥ LUBE OUTLET VALVE MTG. SCREW Φ. (TYPICAL) "D" шш ш

SPECIFICATIONS

MATERIAL: ZINC PLATED STEEL, SS303,

SS316

MAX CYCLE RATE (OIL) 200 CPM

MAX PRESSURE: 7500 PSI

TORQUE SPECIFICATIONS

TIE ROD NUT: 5-8 FT/LBS

VALVE MOUNTING BOLTS: 12-13 FT/LBS

ALT. OUTLET PORTS: 8-9 FT/LBS

PISTON CLOSURE PORT: 12-15 FT/LBS

LUBRICATION SCIENTIFICS, LLC

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



LSP SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS

STANDARD PRESSURE VALVES—CRITICAL MONITORING—ACCESSORIES





LSP—STANDARD PRESSURE, SERIES PROGRESSIVE DIVIDER VALVE

BENEFITS & FEATURES PRODUCT DESCRIPTION STANDARD PRESSURE, SERIES PROGRESSIVE DIVIDER PRECISE LUBRICANT FLOW TO EACH LUBE POINT VALVES STANDARD FOOTPRINT AND PRESSURE, 3500 PSI IDEAL FOR INDUSTRIAL, MARINE, AND FOOD INTERNAL CHECK VALVES PROCESSING MACHINERY CARBON OR STAINLESS STEEL CONSTRUCTION AVAILABLE IN PLATED CARBON, 303, AND 316 USED FOR LOW PRESSURE OIL OR GREASE STAINLESS STEEL **APPLICATIONS** 1-22 LUBE POINTS PER VALVE ASSEMBLY DESIGNED WITH FEEDBACK MONITORING SYSTEM PERFORMANCE ALL INTEGRAL CHECKS USE 316 STAINLESS STEEL **BALLS AND SPRINGS** INTEGRAL CHECK VALVES STANDARD KEEPING LUBE WIDE RANGE OF ACCESSORIES AVAILABLE FOR ANY LINES FULL SYSTEM REQUIREMENT COMPLETE BASEPLATE ASSEMBLIES AVAILABLE CAN ACCOMMODATE 1-22 LUBE POINTS PER VALVE ASSEMBLY

READY FOR IMMEDIATE SHIPMENT

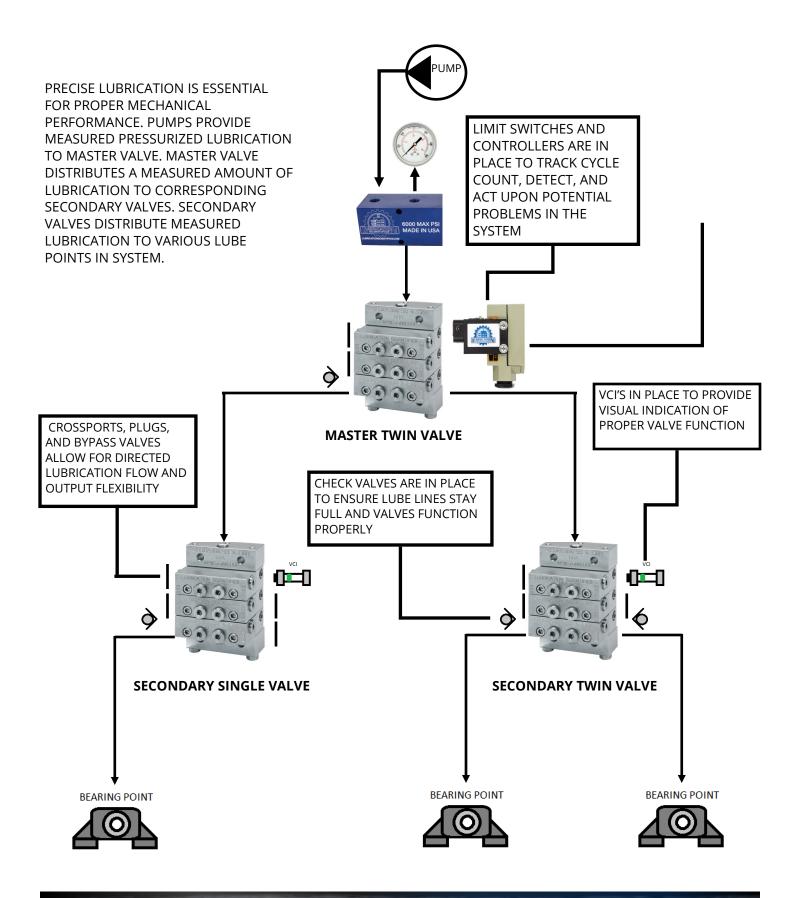
MADE IN



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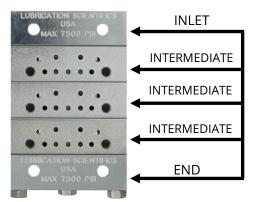
BULLETIN: LSM013 LAST REVISED: 02/12/2019

FUNCTION ILLUSTRATION & SPECIFICATIONS



BULLETIN: LSM013 LAST REVISED: 02/12/2019

ORDERING INFORMATION & PART NUMBERS MANIFOLD COMPONENTS—INLETS, OUTLETS, & ENDS



MANIFOLD COMPONENTS

ROHS COMPLIANT CLEAR ZINC PLATING (CRS ONLY)
SUPPLIED WITH ONLY VITON O-RINGS
INTERMEDIATES INCLUDE INTEGRAL CHECKS

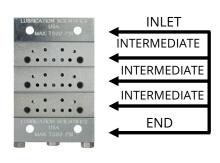
ALL INTERNAL CHECKS USE 316 SS BALLS AND SPRINGS

LINCOLN®STYLE BASE PLATE ASSEMBLIES AVAILABLE

STANDARD PACK: 5 EACH, 316 STAINLESS STEEL: 1 EACH				
PART DESCRIPTION	CRS	303 SS	316 SS	
INLET WITH 1/4-18 NPSF INLET PORT	000-INL-US	303-INL-US	316-INL-US	
INLET WITH 1/4-19 BSPP INLET PORT	000-INL-M	303-INL-M	316-INL-M	
INLET WITH 7/16-20 SAE INLET PORT	000-INL-SAE	303-INL-SAE	316-INL-SAE	
INLET WITH M10 X 1.0 ISO INLET PORT	000-INL-ISO	303-INL-ISO	316-INL-ISO	
INTERMEDIATE WITH 1/8-27 NPSF OUTLETS	000-BP-NPSF	303-BP-NPSF	316-BP-NPSF	
INTERMEDIATE WITH 1/8-27 SAE OUTLETS	000-BP-1/8ORS	303-BP-1/8ORS	316-BP-1/8ORS	
INTERMEDIATE WITH 7/16-20 SAE OUTLETS	000-BP-SAE	303-BP-SAE	316-BP-SAE	
INTERMEDIATE WITH 1/8-28 BSPP OUTLETS	000-BP-M	303-BP-M	316-BP-M	
INTERMEDIATE WITH M10 X 1.0 ISO OUTLETS	000-BP-ISO	303-BP-ISO	316-BP-ISO	
END (ALL)	000-END	303-END	316-END	
LINCOLN® STYLE INLET	000-INL-US-L	303-INL-US-L	316-INL-US-L	
LINCOLN® STYLE END	000-END-L	303-END-L	316-END-L	

LINCOLN® IS A REGISTERED TRADEMARK OF LINCOLN®





BASEPLATE ASSEMBLIES

PREBUILT & TESTED

BASEPLATE ASSEMBLIES MAKE IT EASY TO COMPLETE DIVIDER VALVE ORDER. CHOOSE DIVIDER VALVES FOR SPECIFIC NEEDS AND COMPLETE VALVE SET WITH MATCHING BASEPLATE SECTIONS. <u>BASEPLATES ARE PREBUILT AND TESTED</u>. BASEPLATE ASSEMBLY ORDERS COME WITH AN END, AN INLET, TIE RODS, AND BASEPLATE SECTIONS.

STANDARD PACK: 1 EACH				
	CARBON STEEL	303 STAINLESS	316 STAINLESS	
SIZE & TYPE	PART #: NPSF	PART #: NPSF	PART #: NPSF	
	PART #: ORS	PART #: ORS	PART #: ORS	
2 CECTION WITH CTANDARD INLET AND CTANDARD END	BPA-03-NPSF-000	BPA-03-NPSF-303	BPA-03-NPSF-316	
3 SECTION WITH STANDARD INLET AND STANDARD END	BPA-03-ORS-000	BPA-03-ORS-303	BPA-03-ORS-316	
4 SECTION WITH STANDARD INLET AND STANDARD END	BPA-04-NPSF-000	BPA-04-NPSF-303	BPA-04-NPSF-316	
4 SECTION WITH STANDARD INLET AND STANDARD END	BPA-04-ORS-000	BPA-04-ORS-303	BPA-04-ORS-316	
E CECTION WITH CTANDARD INLET AND CTANDARD END	BPA-05-NPSF-000	BPA-05-NPSF-303	BPA-05-NPSF-316	
5 SECTION WITH STANDARD INLET AND STANDARD END	BPA-05-ORS-000	BPA-05-ORS-303	BPA-05-ORS-316	
	BPA-06-NPSF-000	BPA-06-NPSF-303	BPA-06-NPSF-316	
6 SECTION WITH STANDARD INLET AND STANDARD END	BPA-06-ORS-000	BPA-06-ORS-303	BPA-06-ORS-316	
T SESTION WITH STANDARD IN STANDARD SAID	BPA-07-NPSF-000	BPA-07-NPSF-303	BPA-07-NPSF-316	
7 SECTION WITH STANDARD INLET AND STANDARD END	BPA-07-ORS-000	BPA-07-ORS-303	BPA-07-ORS-316	
8 SECTION WITH STANDARD INLET AND STANDARD END	BPA-08-NPSF-000	BPA-08-NPSF-303	BPA-08-NPSF-316	
8 SECTION WITH STANDARD INLET AND STANDARD END	BPA-08-ORS-000	BPA-08-ORS-303	BPA-08-ORS-316	
9 SECTION WITH STANDARD INLET AND STANDARD END	BPA-09-NPSF-000	BPA-09-NPSF-303	BPA-09-NPSF-316	
3 SECTION WITH STANDARD INCEL AND STANDARD END	BPA-09-ORS-000	BPA-09-ORS-303	BPA-09-ORS-316	
10 SECTION WITH STANDARD INLET AND STANDARD END	BPA-10-NPSF-000	BPA-10-NPSF-303	BPA-10-NPSF-316	
TO SECTION WITH STANDARD INVESTMENT STANDARD END	BPA-10-ORS-000	BPA-10-ORS-303	BPA-10-ORS-316	
11 SECTION WITH STANDARD INLET AND STANDARD END	BPA-11-NPSF-000	BPA-11-NPSF-303	BPA-11-NPSF-316	
Section with strong meetings strong and electrons	BPA-11-ORS-000	BPA-11-ORS-303	BPA-11-ORS-316	
FOR INLET WITH BLEEDS	USE SUFFIX "-BL"			
FOR END WITH BOTTOM FEED	USE SUFFIX "-BF"			
FOR LINCOLN® STYLE INLET & END	USE SUFFIX "-L"			

ORDERING EXAMPLE WITH BLEEDS AND BOTTOM FEED: BPA-03-NPSF-303-BL-BF

ORDERING INFORMATION & PART NUMBERS INTERMEDIATE VALVE SECTIONS

CARBON & STAINLESS STEEL DIVIDER VALVES

STANDARD FOOTPRINT, STANDARD PRESSURE (3500 PSI)
ROHS COMPLIANT CLEAR ZINC PLAITING (CRS ONLY)
SUPPLIED WITH ONLY STAINLESS STEEL CAPS AND MOUNTING BOLTS
SUPPLIED WITH ONLY VITON O-RINGS







ALL VALVES HAVE 1/8-27 NPSF FRONT FACE ALTERNATE OUTLETS. ALL VALVES MAY BE VERTICALLY CROSSPORTED ON THE FRONT OUTLETS. ALL VALVES CAN BE EQUIPPED WITH PERFORMANCE/RESET INDICATORS.

STANDARD PACK: 5 EACH, 316 STAINLESS STEEL: 1 EACH							
CINCLE QUITBUT	PART NUMBER		TM/INI QUITDUT	PART NUMBER			
SINGLE OUTPUT	CRS	303 SS	316 SS	TWIN OUTPUT	CRS	303 SS	316 SS
.010 CI .164 CC	000-05S	303-05S	316-05S	.005 CI .082 CC	000-05T	303-05T	316-05T
.020 CI .328 CC	000-10S	303-10S	316-10S	.010 CI .164 CC	000-10T	303-10T	316-10T
.030 CI .492 CC	000-15S	303-155	316-15S	.015 CI .246 CC	000-15T	303-15T	316-15T
.040 CI .656 CC	000-20S	303-205	316-20S	.020 CI .328 CC	000-20T	303-20T	316-20T
.050 CI .820 CC	000-25S	303-25S	316-25S	.025 CI .410 CC	000-25T	303-25T	316-25T
.060 CI .983 CC	000-30S	303-30S	316-30S	.030 CI .492 CC	000-30T	303-30T	316-30T
.070 CI 1.148 CC	000-35S	303-35S	316-35S	.035 CI .574 CC	000-35T	303-35T	316-35T
.080 CI 1.311 CC	000-405	303-405	316-405	.040 CI .656 CC	000-40T	303-40T	316-40T

FOR CRS BYPASS VALVE USE PART NUMBER **000-BYPASS**FOR 303 SS BYPASS VALVE USE PART NUMBER **303-BYPASS**FOR 316 SS BYPASS VALVE USE PART NUMBER **316-BYPASS**

RIGHT & LEFT HAND CYCLE INDICATORS AVAILABLE FOR SIZES 000-15 AND ABOVE

HORACINE SOLUTION OF THE STATE OF THE STATE

FOR VALVE WITH RIGHT HAND CYCLE INDICATOR, ADD SUFFIX **RHCIP**FOR VALVE WITH LEFT HAND CYCLE INDICATOR, ADD SUFFIX **LHCIP**

EXAMPLE: 000-25S-RHCIP



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ORDERING INFORMATION & PART NUMBERS STAINLESS STEEL TIE RODS

STAINLESS STEEL TIE RODS

3 TIE RODS REQUIRED PER VALVE ASSEMBLY

ALL TIE RODS INCLUDE ROD NUT STAINLESS STEEL TIE RODS & NUTS

STANDARD PACK: 3 EACH					
PART DESCRIPTION	303 SS	316 SS			
3 SECTION VALVE ASSEMBLY	303-TR3	316-TR3			
4 SECTION VALVE ASSEMBLY	303-TR4	316-TR4			
5 SECTION VALVE ASSEMBLY	303-TR5	316-TR5			
6 SECTION VALVE ASSEMBLY	303-TR6	316-TR6			
7 SECTION VALVE ASSEMBLY	303-TR7	316-TR7			
8 SECTION VALVE ASSEMBLY	303-TR8	316-TR8			
9 SECTION VALVE ASSEMBLY	303-TR9	316-TR9			
10 SECTION VALVE ASSEMBLY	303-TR10	316-TR10			
11 SECTION VALVE ASSEMBLY	303-TR11	316-TR11			



ORDERING INFORMATION & PART NUMBERS SINGLING, CROSSPORTING, & REPLACEMENT PARTS

FRONT (A/O) CROSSPORT KITS

ALL STAINLESS STEEL CONSTRUCTION WITH VITON O-RINGS

STANDARD PACK: 1 EACH				
PART DESCRIPTION	303 SS	316 SS		
2 VALVES, 1 OUTPUT	303-413	316-413		
3 VALVES, 1 OUTPUT	303-414	316-414		
4 VALVES , 1 OUTPUT	303-415	316-415		



CROSSPORT BAR KITS

CRS & STAINLESS STEEL CONSTRUCTION WITH O-RINGS & MOUNTING BOLTS





STANDARD PACK: 5 EACH					
PART DESCRIPTION	CRS	303 SS	316 SS		
CROSSPORT BAR (RIGHT)	L527320	L527320-303	L527320-316		
CROSSPORT BAR (LEFT)	L527330	L527330-303	L527330-316		
CROSSPORT BAR (BOTH)	L527340	L527340-303	L527340-316		

SINGLING BAR KIT

CARBON & STAINLESS STEEL CONSTRUCTION
WITH VITON O-RINGS

STANDARD PACK: 5 EACH					
DESCRIPTION	CRS	303 SS	316 SS		
SINGLING BAR	L527350	L527350-303	L527350-316		

REPLACEMENT CLOSURE PLUGS & O-RINGS

STAINLESS STEEL CONSTRUCTION
O-RINGS INCLUDED





STANDARD PACK: 10 EACH					
PART DESCRIPTION	303 SS	316 SS			
ALTERNATE OUTLET (FRONT PORTS) PLUG	A-002-S	A-002-S316			
PISTON BORE PLUG	A-001-S	A-001-S316			
O-RING SEAL KIT—ALL VALVES/INTERMEDIATES/ENDS	LSP-ORSK	LSP-ORSK			

ORDERING INFORMATION & PART NUMBERS

ADDITIONAL ACCESSORIES FOR VERIFYING LUBRICATION SYSTEM FUNCTION

TECHNICAL BULLETINS AVAILABLE FOR ALL ACCESSORIES.

ADDITIONAL DETAILED ACCESSORY INFORMATION LISTED ON PAGE 17.

PROXIMITY SWITCH AND CABLES

STANDARD PACK: 1 EACH				
ITEM DESCRIPTION	VALVE ADAPTER	PART NUMBER	MAX	HAZARD RATING
PROXIMITY SWITCH, 3 PIN MINI-QUICK DISCONNECT	LSP/LHP	L527251	7,500 PSI 517 BAR	NOT RATED
PROXIMITY SWITCH, 4 PIN MINI-QUICK DISCONNECT	LSP/LHP	L527112	7,500 PSI 517 BAR	NOT RATED
PROXIMITY SWITCH, 5 PIN MINI-QUICK DISCONNECT	LSP/LHP	L527111	7,500 PSI 517 BAR	NOT RATED
PROXIMITY SWITCH, EXPLOSION PROOF, 1/2" NPT WITH LEADS	LSP/LHP	L527431	7,500 PSI 517 BAR	CLASS I, GROUPS A,B,C,D CLASS II, GROUPS E,F,G CLASS III



STANDARD PACK: 1 CABLE				
ITEM DESCRIPTION	PART NUMBER			
12' 3 PIN CABLE	L527251-CBL12			
12' 4 PIN CABLE	L527112-CBL12			
12' 5 PIN CABLE	L527111-CBL12			

ORDERING INFORMATION & PART NUMBERS ADDITIONAL ACCESSORIES FOR CUSTOMIZING SYSTEM FUNCTION



SHUNT INLET VALVES

3 FUNCTION ELECTRIC VALVE FUNCTION MODES INCLUDE:

- 1) ENTER VALVE
- 2) BYPASS VALVE
- 3) REVERT BACK TO TANK



STANDARD P	ACK: 1 EAC	Н
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STANDARD FACILITY					
PART DESCRIPTION	POWER INPUT	OPEN/CLOSED	CARBON STEEL	303 STAINLESS	316 STAINLESS
LSP SHUNT INLET	115 VAC	NC	L527660-NC-000	L527660-NC-303	L527660-NC-316
LSP SHUNT INLET	115 VAC	NO	L527660-NO-000	L527660-NO-303	L527660-NO-316
LSP SHUNT INLET	24 VDC	NC	L527680-NC-000	L527680-NC-303	L527680-NC-316
LSP SHUNT INLET	24 VDC	NO	L527680-NO-000	L527680-NO-303	L527680-NO-316

REPLACEMENT COILS

DESCRIPTION	PART NUMBER
24 VDC NORMALLY OPEN WITH PLUG-IN CONNECTOR	L527-24-NO-4823
24 VDC NORMALLY CLOSED WITH PLUG-IN CONNECTOR	L527-24-NC-4823
115 VDC NORMALLY OPEN WITH PLUG-IN CONNECTOR	L527-115-NO-4823
115 VDC NORMALLY CLOSED WITH PLUG-IN CONNECTOR	L527-115-NC-4823





STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION				PART NUMBER	
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/8" NPTF (M)	1/4" TUBE	35 / 2.41	OCV-303-125-NPTF	OCV-316-125-NPTF	INTEGRAL FITTING
1/8" ORS (M)	1/4" TUBE	35 / 2.41	OCV-303-125-ORS	OCV-316-125-ORS	INTEGRAL FITTING
1/8" BSPP (M)	6MM TUBE	35 / 2.41	OCV-303-125-BSPP	OCV-316-125-BSPP	INTEGRAL FITTING
M10 X 1.0 ISO (M)	6MM TUBE	35 / 2.41	OCV-303-125-ISO	OCV-316-125-ISO	INTEGRAL FITTING
7/16"-20 SAE (M)	1/4" TUBE	35 / 2.41	OCV-303-125-SAE	OCV-316-125-SAE	INTEGRAL FITTING

STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/8" NPTF (M)	1/8" NPSF (F)	35 / 2.41	OCV-303-125R-35	OCV-316-125R-35	TUBE FITTING
1/8" NPTF (M)	1/8" NPSF (F)	60 / 4.13	OCV-303-125R-60	OCV-316-125R-60	TUBE FITTING
1/8" NPTF (M)	1/8" NPSF (F)	250 / 17.23	OCV-303-125R-250	OCV-316-125R-250	TUBE FITTING
1/4"NPTF (M)	1/4" NPSF (F)	35 / 2.41	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING





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VISUAL CYCLE INDICATOR

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STANDARD PACK: 1 EACH	
ITEM DESCRIPTION	PART NUMBER
STAINLESS STEEL VISUAL CYCLE INDICATOR	VCI-437
STAINLESS STEEL VISUAL CYCLE INDICATOR	VCI-437-L LINCOLN® STYLE

STANDARD PACK: 1 EACH		
ITEM DESCRIPTION	PART NUM- BER	
LIMIT SWITCH ASSEMBLY, SPDT	LSW-001	
LIMIT SWITCH ASSEMBLY, DPDT	LSW-002	

PERFORMANCE (RESET) INDICATORS

STANDARD PACK: 5 EACH	1/8 NPSF O-RING CONNECTION		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS	
1,000 PSI 69 BAR	303-P1000	316-P1000	
1,500 PSI 103 BAR	303-P1500	316-P1500	
2,000 PSI	303-P2000	316-P2000	
2,500 PSI 172 BAR	303-P2500	316-P2500	
3,000 PSI 207 BAR	303-P3000	316-P3000	
3,500 PSI 241 BAR	303-P3500	316-P3500	
5,000 PSI 345 BAR	303-P5000	316-P5000	
LINCOLN® STYLE INDICATOR ADAPTER	303-PI-ADP-L	316-PI-ADP-L	



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BLOWOUT FITTINGS

STANDARD PACK: 5 EACH	1/8" O-RING SEAL OR 1/8" NPTF THREADS		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303-NPTF	BOF-LP-316-NPTF	
PLAIN NUT W/ 1/4" APERTURE	BOF-LP-303-ORS	BOF-LP-316-ORS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303R-NPTF	BOF-LP-316R-NPTF	
SPUD NUT W/ 1/4" APERTURE	BOF-LP-303R-ORS	BOF-LP-316R-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303-NPTF	BOF-HP-316-NPTF	
PLAIN NUT W/ 1/8" APERTURE	BOF-HP-303-ORS	BOF-HP-316-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303R-NPTF	BOF-HP-316R-NPTF	
SPUD NUT W/ 1/8" APERTURE	BOF-HP-303R-ORS	BOF-HP-316R-ORS	







NOTE: RUPTURE DISK NOT INCLUDED

3/8" DIAMETER RUPTURE DISKS

STANDARD PACK: 25	STANDARD PACK: 25 EACH			
DISC COLOR	LOW PRESSURE BURST (PSI / BAR) (1/4" APERTURE FITTING)	HIGH PRESSURE BURST (PSI / BAR) (1/8" APERTURE FITTING)	PART NUMBER	
BLACK	900 / 62	N/R	A509-276-000	
GREEN	1,175 / 81	N/R	A509-277-000	
YELLOW	1,450 / 100	3,700 / 255	A509-292-000	
RED	1,750 / 121	4,600 / 317	A509-279-000	
ORANGE	2,050 / 141	5,500 / 379	A509-280-000	
ALUMINUM	2,350 / 162	N/R	A509-281-000	
PINK	2,650 / 183	6,400 / 441	A509-282-000	
BLUE	2,950 / 203	7,300 / 503	A509-283-000	
PURPLE	3,250 / 224	8,200 / 565	A509-284-000	

NOTE: ALL DISKS HAVE A RUPTURE TOLERANCE OF +500 PSI

ATMOSPHERIC RESET INDICATORS

PART NUMBER	DESCRIPTION
L5081000-NPTF	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPTF
L5081000-ORS	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-NPTF	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-ORS	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-NPTF	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-ORS	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 ORS
L5082500-NPTF	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-ORS	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 ORS
L5083000-NPTF	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-ORS	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 ORS
L5081000-316-NPTF	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPT
L5081000-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 ORS
L5082500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 ORS
L5083000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 ORS

CONTAMINATION IS THE ENEMY OF RELIABILITY

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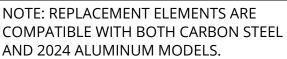




STANDARD PACK: 1 EACH			
FILTER RATING	PLATED CARBON STEEL	AL2024 BLUE ANODIZED ALUMINUM	
	7,500 PSI / 517 BAR	6,000 PSI / 414 BAR	
5 MICRON	DTFA-005-O	MDFA-005-O	
10 MICRON	DTFA-010-O	MDFA-010-O	
25 MICRON	DTFA-025-O	MDFA-025-O	
150 MICRON	DTFA-100-G	MDFA-100-G	
100 MESH	D1FA-100-G	WDFA-100-G	
420 MICRON	DTEA 040 C	MDEA 040 C	
40 MESH	DTFA-040-G	MDFA-040-G	

DIRT TRAP REPLACEMENT ELEMENT

STANDARD PACK: 1 EACH		
FILTER RATING	PART NUMBER	
5 MICRON	DT-EL-002-005MIC	
10 MICRON	DT-EL-002-010MIC	
25 MICRON	DT-EL-002-025MIC	
150 MICRON	DT EL 002 100M	
100 MESH	DT-EL-002-100M	
420 MICRON	DT EL 002 40M	
40 MESH	DT-EL-002-40M	





STANDARD PACK: 5 EACH			
PRODUCT DESCRIPTION	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL
4 WAY CROSS			
1/8 NPSF (X4)	L509189-000	L509189-303	L509189-316
9/32 MTG HOLE			
4 WAY CROSS			
1/4 NPSF (X4)	L509188-000	L509188-303	L509188-316
9/32 MTG HOLE			
5 WAY CROSS			
1/4 NPSF (X4)			
1/8 NPSF (X1)	L509190-000	L509190-303	L509190-316
9/32 MTG HOLE			
2 WAY STRAIGHT			
1/8 NPSF (X2)	L509180-000	L509180-303	L509180-316
9/32 MTG HOLE			
2 WAY STRAIGHT			
1/4 NPSF (X2)	L509185-000	L509185-303	L509185-316
9/32 MTG HOLE			
90 DEGREE ELBOW			
1/8 NPSF (X2)	L509170-000	L509170-303	L509170-316
9/32 MTG HOLE			
90 DEGREE ELBOW			
1/4 NPSF (X2)	L509175-000	L509175-303	L509175-316
9/32 MTG HOLE			









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COMPLETE FILTER ASSEMBLY (NO GAUGE)

STANDARD PACK: 1 EACHPRODUCT DESCRIPTIONPART NUMBERFILTER ASSEMBLY (SHORT) 10 MICRONSCFIL-10-USFILTER ASSEMBLY (SHORT) 20 MICRONSCFIL-20-USFILTER ASSEMBLY (SHORT) 50 MICRONSCFIL-50-US

NOTE: PRESSURE GAUGES SOLD SEPARATELY

STANDARD PACK: 1 EACH		
PRODUCT DESCRIPTION	PART NUMBER	
FILTER ASSEMBLY (LONG) 10 MICRONS	CFIL-10-UL	
FILTER ASSEMBLY (LONG) 20 MICRONS	CFIL-20-UL	
FILTER ASSEMBLY (LONG) 50 MICRONS	CFIL-50-UL	

NOTE: PRESSURE GAUGES SOLD SEPARATELY



REPLACEMENT FILTER ELEMENTS & GAUGE

STANDARD PACK: 1 EACH	
PRODUCT DESCRIPTION	PART NUMBER
FILTER ELEMENT (SHORT) 10 MICRONS	CFIL-10-ES
FILTER ELEMENT (SHORT) 20 MICRONS	CFIL-20-ES
FILTER ELEMENT (SHORT) 50 MICRONS	CFIL-50-ES

STANDARD PACK: 1 EACH	
PRODUCT DESCRIPTION	PART NUMBER
FILTER ELEMENT (LONG) 10 MICRONS	CFIL-10-EL
FILTER ELEMENT (LONG) 20 MICRONS	CFIL-20-EL
FILTER ELEMENT (LONG) 50 MICRONS	CFIL-50-EL

STANDARD PACK: 1 EACH		
GAUGE DESCRIPTION	PART NUMBER	
LOWER MOUNT, 1/4 NPTF, 5000 PSI	LM-25-5K-4	



ORDERING INFORMATION & PART NUMBERS

SPIN-ON FILTER ASSEMBLY

ANODIZED ALUMINUM MANIFOLD
STAINLESS STEEL PRESSURE GAUGES
MOUNTING BRACKET
HIGH FLOW FILTER CANISTER
FOR OIL USE ONLY
MAX PRESSURE: 150 PSI

STANDARD PACK: 1 EACH	
PART DESCRIPTION	PART NUMBER
SPIN-ON FILTER COMPLETE ASSEMBLY	LPFA-118-AL
REPLACEMENT ELEMENT	LPFA-118-RFE







REPLACEMENT ELEMENT

LSP FEEDER PART NUMBER ORDERING GUIDE

LSP-XXX-XXX-XXX-XXXXX

LSP-XXX-XXX-XXX-XXXXX		
MATERIAL	P/N	
CARBON STEEL	LEAVE BLANK	
303 STAINLESS	303	
316 STAINLESS	316	

LSP-XXX-XXX-XXX-XXXXXX		
PORT OPTIONS	P/N	
NPSF PORTS	NPT	
1/8 ORS	ORS	
SAE PORTS	SAE	
BSPP PORTS	BSP	
METRIC PORTS	MET	

LSP-XXX-XXX-XXX-XXXXX		
INLET SECTION OPTION	P/N	
STANDARD	MS	
SHUNT 115 VAC, NC TO FEEDER	SHC	
SHUNT 115 VAC, NO TO FEEDER	SHO	
SHUNT 24 VDC, NC TO FEEDER	SDC	
SHUNT 24 VDC, NO TO FEEDER	SDO	
ZERO LEAK 115 VAC	ZL	
ZERO LEAK 24 VDC	ZF	

LSP-XXX-XXX-XXX-XXXXXX	
INSTALLED ACCESSORIES	P/N
NO INTERNAL CHECK VALVES	Х
EXTERNAL CHECK VALVES	С
PERFORMANCE INDICATORS	Р
PERFORMANCE INDICATORS & CHECK VALVES	В

LSP-XXX-XXX-XXX-XXXX	
NUMBER OF SECTIONS	P/N
THREE	3
FOUR	4
FIVE	5
SIX	6
SEVEN	7
EIGHT	8
NINE	9
TEN	10
ELEVEN	11

LSP-XXX-XXX-XXX-XXXXXXX	
VALVE SIZE	P/N
BYPASS SECTION	BP
.005 CU. IN.	5
.010 CU. IN.	10
.015 CU. IN.	15
.020 CU. IN.	20
.025 CU. IN.	25
.030 CU. IN.	30
.035 CU. IN.	35
.040 CU. IN.	40

LSP-XXX-XXX-XXX-XXXXXXX					
TYPE OF SECTION	P/N				
TWIN	Т				
SINGLE, RH OUTLET	S				
SINGLE, LH OUTLET	L				
TWIN, CIP RIGHT	В				
SINGLE, CIP RIGHT, RH OUTLET	С				
SINGLE, CIP RIGHT, LH OUTLET	D				
TWIN, PROXIMITY SWITCH RIGHT	Е				
SINGLE, PROXIMITY SWITCH RIGHT, RH OUTLET	F				
SINGLE, PROXIMITY SWITCH RIGHT, LH OUTLET	G				
TWIN, CIP LEFT	Н				
SINGLE, CIP LEFT, RH OUTLET	J				
SINGLE, CIP LEFT, LH OUTLET	K				
TWIN, PROXIMITY SWITCH LEFT	М				
SINGLE, PROXIMITY SWITCH LEFT, RH OUTLET	N				
SINGLE, PROXIMITY SWITCH LEFT, LH OUTLET	Р				

LSP-XXX-XXX-XXX-XXXXXX						
CROSSPORT OPTION	P/N					
RIGHT SIDE	CR					
LEFT SIDE	CL					
BOTH SIDES	СВ					

MOUNTING INFORMATION & SPECIFICATIONS

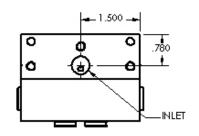
WITH 1.75" STANDARD MOUNTING HOLES

VALVE	VALVE A		В	С	D	E
SECTIONS	INCH	mm		IN	СН	
3	3.585/3.605	91.31	1.75	0.490	0.490	0.281
4	4.510/4.530	114.80	1.75	0.490	0.490	0.281
5	5.435/5.455	138.30	1.75	0.490	0.490	0.281
6	6.360/6.380	1 <i>6</i> 1. <i>7</i> 9	1.75	0.490	0.490	0.281
7	7.285/7.305	185.29	1.75	0.490	0.490	0.281
8	8.210/8.230	208.78	1.75	0.490	0.490	0.281

VALVE	NET W	'EIGHT
SECTIONS	LBS.	KG.
3	5.9	2.7
4	7.3	3.3
5	8.7	4.0
6	10.2	4.6
7	11.6	5.6
8	13.0	5.9

WITH 1.875" MOUNTING HOLES

VALVE	Д	l	В	С	D	E
SECTIONS	INCH	mm		INC	1	
3	3.365/3.385	85.72	1.875	0.292	0.310	0.328
4	4.290/4.310	109.22	1.875	0.292	0.310	0.328
5	5.215/5.235	132.71	1.875	0.292	0.310	0.328
6	6.140/6.160	156.21	1.875	0.292	0.310	0.328
7	7.065/7.085	179.70	1.875	0.292	0.310	0.328
8	7.990/8.010	203.20	1.875	0.292	0.310	0.328



2.180 -_ 1.618 -1.125 "E" .435 Θ PISTON ENCLOSURE PLUG **(**0) 0 .925 INDICATOR PORT (TYPICAL) **(**0) "A" (0) 0 LUBE OUTLET -VALVE MTG. SCREW (TYPICAL) Φ

"D"

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SPECIFICATIONS

MATERIAL: ZINC PLATED STEEL, SS303, SS316

MAX CYCLE RATE (OIL) 200 CPM

MAX PRESSURE: 7500 PSI

TORQUE SPECIFICATIONS

TIE ROD NUT: 5-8 FT/LBS

VALVE MOUNTING BOLTS: 12-13 FT/LBS

ALT. OUTLET PORTS: 8-9 FT/LBS

PISTON CLOSURE PORT: 12-15 FT/LBS

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LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN	FARVAL	PRODUCT DESCRIPTION
000-05S	106-100-015	562711	882051	MCVA250105SG	LSP CRS 05 SINGLE
000-05T	106-100-175	562720	882052	MCVA250105TG	LSP CRS 05 TWIN
000-10S	106-100-025	562712	882101	MCVA250110SG	LSP CRS 10 SINGLE
000-10T	106-100-185	562721	882102	MCVA250110TG	LSP CRS 10 TWIN
000-15S	106-100-035	562713	882151	MCVA250115SG	LSP CRS 15 SINGLE
000-15T	106-100-195	562722	882152	MCVA250115TG	LSP CRS 15 TWIN
000-20S	106-100-045	562714	882201	MCVA250120SG	LSP CRS 20 SINGLE
000-20T	106-100-205	562723	882202	MCVA250120TG	LSP CRS 20 TWIN
000-25S	106-100-055	562715	882251	MCVA250125SG	LSP CRS 25 SINGLE
000-25T	106-100-215	562724	882252	MCVA250125TG	LSP CRS 25 TWIN
000-30S	106-100-065	562716	882301	MCVA250130SG	LSP CRS 30 SINGLE
000-30T	106-100-225	562725	882302	MCVA250130TG	LSP CRS 30 TWIN
000-35S	106-100-075	562717	882351	MCVA250135SG	LSP CRS 35 SINGLE
000-35T	106-100-235	562726	882352	MCVA250135TG	LSP CRS 35 TWIN
000-40S	106-100-085	562718	882401	MCVA250140SG	LSP CRS 40 SINGLE
000-40T	106-100-245	562727	882402	MCVA250140TG	LSP CRS 40 TWIN
000-15S-RHCIP	NA	N/A	N/A	N/A	LSP CRS 15 SGL RHCIP
000-15T-RHCIP	NA	N/A	N/A	N/A	LSP CRS 15 TW RHCIP
000-20S-RHCIP	106-100-735	562729	882203	MCVA250120SPG	LSP CRS 20 SGL RHCIP
000-20T-RHCIP	106-100-935	562739	882204	MCVA250120TPG	LSP CRS 20 TW RHCIP
000-25S-RHCIP	106-100-745	562730	882253	MCVA250125SPG	LSP CRS 25 SGL RHCIP
000-25T-RHCIP	106-100-945	562740	882254	MCVA250125TPG	LSP CRS 25 TW RHCIP
000-30S-RHCIP	106-100-755	562731	882303	MCVA250130SPG	LSP CRS 30 SGL RHCIP
000-30T-RHCIP	106-100-955	562741	882304	MCVA250130TPG	LSP CRS 30 TW RHCIP
000-35S-RHCIP	106-100-765	562732	882353	MCVA250135SPG	LSP CRS 35 SGL RHCIP
000-35T-RHCIP	106-100-965	562742	882354	MCVA250135TPG	LSP CRS 35 TW RHCIP
000-40S-RHCIP	106-100-775	562733	882403	MCVA250140SPG	LSP CRS 40 SGL RHCIP
000-40T-RHCIP	106-100-975	562743	882404	MCVA250140TPG	LSP CRS 40 TW RHCIP
000-15S-LHCIP	N/A	N/A	N/A	N/A	LSP CRS 15 SGL LHCIP
000-15T-LHCIP	N/A	N/A	N/A	N/A	LSP CRS 15 TW LHCIP
000-20S-LHCIP	N/A	562734	N/A	N/A	LSP CRS 20 SGL LHCIP
000-20T-LHCIP	N/A	562744	N/A	N/A	LSP CRS 20 TW LHCIP
000-25S-LHCIP	N/A	562735	N/A	N/A	LSP CRS 25 SGL LHCIP
000-25T-LHCIP	N/A	562745	N/A	N/A	LSP CRS 25 TW LHCIP
000-30S-LHCIP	N/A	562736	N/A	N/A	LSP CRS 30 SGL LHCIP
000-30T-LHCIP	N/A	562746	N/A	N/A	LSP CRS 30 TW LHCIP
000-35S-LHCIP	N/A	562737	N/A	N/A	LSP CRS 35 SGL LHCIP
000-35T-LHCIP	N/A	562747	N/A	N/A	LSP CRS 35 TW LHCIP
000-40S-LHCIP	N/A	562738	N/A	N/A	LSP CRS 40 SGL LHCIP
000-40T-LHCIP	N/A	562748	N/A	N/A	LSP CRS 40 TW LHCIP

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TRABON® IS A REGISTERED TRADEMARK OF GRACO®

FARVAL® IS A REGISTERED TRADEMARK OF BIJUR DELIMON INTERNATIONAL

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LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN®	FARVAL	PRODUCT DESCRIPTION
000-INL-US	527-001-800	590919	87918	MCI2504BG	LSP_CRS INLET 1/4" NPSF
000-INL-SAE	527003-540	560943	N/A	MCI2504AG	LSP CRS INLET 7/16-20 SAE
000-INL-M	527-003-130	560936	N/A	MCI2504CG	LSP CRS INLET 1/4" -19 BSPP
000-INL-ISO	N/A	560943	N/A	N/A	LSP CRS INLET M10 X 1.0 ISO
600-INL-B	527-000-322	563421	N/A	N/A	LSP CRS INLET 1/4" NPSF WITH BLEED SCREW
600-INL-B-SAE	527-001-900	563422	N/A	N/A	LSP CRS INLET 7/16-20 SAE WITH BLEED SCREW
SEE LS SHUNT INLET FORM	N/A	N/A	N/A	37499A	LSP CRS OIL INLET WITHOUT SOLENOID 7/16-20 SAE INLET
SEE LS SHUNT INLET FORM	N/A	N/A	N/A	37499B	LSP CRS OIL INLET WITHOUT SOLENOID 1/4-18 NPSF INLET
SEE LS SHUNT INLET FORM	N/A	N/A	N/A	37499C	LSP CRS OIL INLET WITHOUT SOLENOID 1/4-19 BSPP INLET
SEE LS SHUNT INLET FORM	N/A	N/A	N/A	37500A	LSP CRS GREASE INLET WITHOUT SOLENOID 7/16-20 SAE INLET
SEE LS SHUNT INLET FORM	N/A	N/A	N/A	37500A 37500B	LSP CRS GREASE INLET WITHOUT SOLENOID 1/4-18 NPSF INLET
SEE LS SHUNT INLET FORM	N/A	N/A	N/A	37500B 37500C	LSP CRS GREASE INLET WITHOUT SOLENOID 1/4-18 NP3F INLET
SEE LS SHUNT INLET FORM	N/A N/A	N/A	N/A N/A	MCZ2501F	OIL SOLENOID VALVE BELOW 1500 PSI 120VAC
SEE LS SHUNT INLET FORM	N/A N/A	N/A N/A	N/A N/A	MCZ2501F MCZ2501A	OIL SOLENOID VALVE 3000 PSI MAX 120 VAC
SEE LS SHUNT INLET FORM L527330	N/A 527-005-330	N/A 562470	N/A N/A	MCZ2503B	GREASE SOLENOID VALVE 3000 PSI MAX 12 VAC LSP_CRS_CROSSPORT_LEFT_HAND
				37083	
L527320	527-005-320	563469	N/A	37083	LSP CRS CROSSPORT RIGHT HAND
L527340	527-005-340	563471	N/A	37083 (2 REQD)	LSP_CRS_CROSSPORT_BOTH
000-BP	106-000-010	562660	882000	MCVA2501BPG	LSP_CRS_BY-PASS_SECTION
L527350	527-005-350	563472	N/A	N/A	LSP CRS SINGLING BAR
000-BP-NPSF	527-000-311	563425	87919	MCBA2502BG	LSP CRS BASE PLATE 1/8-27 NPSF
000-BP-1/8ORS	N/A	N/A	N/A	N/A	LSP CRS BASE PLATE 1/8 WITH O-RING
000-BP-SAE	527-003-550	563451	N/A	MCBA2502AG	LSP CRS BASE PLATE 7/16-20 SAE
000-BP-M	527-003-140	563447	N/A	MCBA2502CG	LSP_CRS_BASE_PLATE_1/8-28_BSPP
000-BP-ISO	N/A	N/A	N/A	N/A	LSP CRS BASE PLATE M10.0 X 1.0 ISO
000-END	527-001-900	563424	87920	MCEA2503G	LSP_CRS_END_PLATE
N/A	510-770-332	563279	N/A	37484	LSP CRS END WITH ALT. INLET 1/8" NPSF
LSP-TRN-SS	410-440-010	556371	N/A	U251A	LSP CRS TIE ROD NUT 1/4"-28 HEX
LSP-ORSK	N/A	N/A	N/A	U1720005S	LSP VALVE AND BASE PLATE O-RINGS VITON
303-TR3	527-001-930	557731	250290	MCRK25053G	LSP CRS 3-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR4	527-001-940	557732	250291	MCRK25054G	LSP CRS 4-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR5	527-001-950	557733	250292	MCRK25055G	LSP CRS 5-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR6	527-001-960	557734	250293	MCRK25056G	LSP CRS 6-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR7	527-001-970	557735	250294	MCRK25057G	LSP CRS 7-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR8	527-001-980	557736	250295	MCRK25058G	LSP CRS 8-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR9	527-001-990	557738	N/A	MCRK25059G	LSP CRS 9-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR10	527-001-910	557739	N/A	MCRK250510G	LSP CRS 10-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR11	N/A	557740	N/A	N/A	LSP CRS 11-SECTION TIE ROD & NUT (PACK OF 3 EACH)
LSP-VMB-303	N/A	N/A	N/A	U212-A6	LSP_CRS_BASE ASSEMBLY SCREWS 1/4-28
N/A	N/A	N/A	N/A	N/A	CRS ELEMENT SCREWS 1/4-28
N/A	N/A	N/A	N/A	N/A	CRS 1/4-28 THREADED INSERT
A-001-S	527-001-9001-S0	557716	N/A	PLU14038A	LSP CRS PISTON CLOSURE PLUG WITH O-RING
A-002-S	527-001-9002-S0	567251	N/A	U119AC	LSP CRS ALTERNATE OUTLET PLUG WITH O-RING
131-1827PP	503-485-000	557349	68645	N/A	LSP CRS OUTLET PORT PLUG 1/8-20 NPSF
131-1828PP	412-700-404	558799	N/A	N/A	LSP CRS OUTLET PORT PLUG 1/8-28 BSPP
A-0001-S	412-120-206	567251	N/A	N/A	LSP_CRS OUTLET PORT PLUG 2-SAE
131-M10PP	N/A	N/A	N/A	N/A	LSP CRS OUTLET PLUG M10 X 1.0 ISO
LSP-CIPMRK	560-002-055	563929	N/A	N/A	LSP CYCLE PIN REPAIR KIT
000-15S-RHCIP	N/A	N/A	N/A	N/A	LSP CRS 15 SGL RHCIP
000-15T-RHCIP	N/A	N/A	N/A	N/A	LSP CRS 15 TW RHCIP
000-20S-RHCIP	106-100-735	562729	882203	MCVA250120SPG	LSP CRS 20 SGL RHCIP
000-20T-RHCIP	106-100-935	562739	882204	MCVA250120TPG	LSP CRS 20 TW RHCIP
000-25S-RHCIP	106-100-745	562730	882253	MCVA250125SPG	LSP CRS 25 SGL RHCIP
000-25T-RHCIP	106-100-945	562740	882254	MCVA250125TPG	LSP CRS 25 TW RHCIP
000-30S-RHCIP	106-100-755	562731	882303	MCVA250130SPG	LSP CRS 30 SGL RHCIP
000-30T-RHCIP	106-100-955	562741	882304	MCVA2501303FG	LSP CRS 30 TW RHCIP
000-351-RHCIP	106-100-765	562732	882353	MCVA25013511 G	LSP CRS 35 SGL RHCIP
000-35T-RHCIP	106-100-965	562742	882354	MCVA250135TPG	LSP CRS 35 TW RHCIP
000-351-RHCIP	106-100-775	562733	882403	MCVA25013511 G MCVA250140SPG	LSP CRS 40 SGL RHCIP
000-40T-RHCIP	106-100-975	562743	887404	MCAAAAAAAAAAA	LSP (RS 40 IW RHCIP
000-40T-RHCIP 000-20S-LHCIP	106-100-975 106-100-785	562743 562734	882404 N/A	MCVA250140TPG N/A	LSP CRS 40 TW RHCIP LSP CRS 20 SGL LHCIP

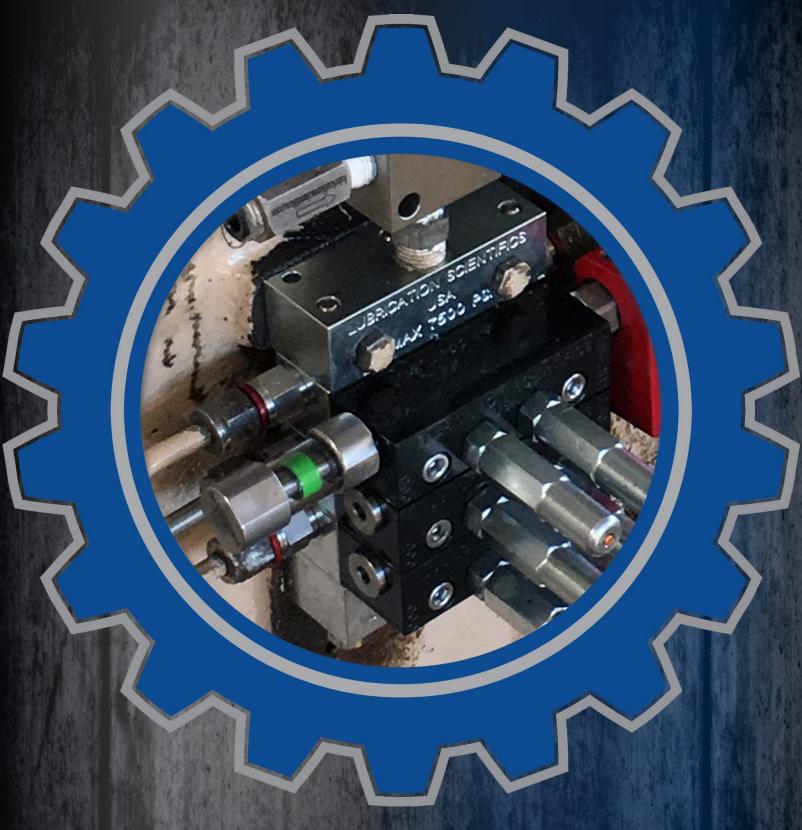
LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN®	FARVAL	PRODUCT DESCRIPTION
000-25S-LHCIP	106-100-795	562735	N/A	N/A	LSP CRS 25 SGL LHCIP
000-25T-LHCIP	106-100-995	562745	N/A	N/A	LSP CRS 25 TW LHCIP
000-30S-LHCIP	106-100-805	562736	N/A	N/A	LSP CRS 30 SGL LHCIP
000-30T-LHCIP	106-101-005	562746	N/A	N/A	LSP CRS 30 TW LHCIP
000-35S-LHCIP	106-100-815	562737	N/A	N/A	LSP CRS 35 SGL LHCIP
000-35T-LHCIP	106-101-015	562747	N/A	N/A	LSP CRS 35 TW LHCIP
000-40S-LHCIP	106-100-825	562738	N/A	N/A	LSP CRS 40 SGL LHCIP
000-40T-LHCIP	106-101-025	562748	N/A	N/A	LSP CRS 40 TW LHCIP
LSW-001	510-599-000	563272	87070	N/A	LSP CYCLE SWITCH SPDT
LSW-002	510-577-000	564357	N/A	MC13974B	LSP CYCLE SWITCH DPDT
SEE PROX BULLETIN	527-001-231	563427	85651	N/A	LSP_REED SWITCH SPST
SEE PROX BULLETIN	527-003-431	557745	249124	MCSA2503	LSP HALL EFFECT PROX SWITCH SPDT
SEE PROX BULLETIN	N/A	N/A	N/A	N/A	LSP 6' 3-PIN CABLE
SEE PROX BULLETIN	527-006-060	563485	N/A	N/A	LSP HALL EFFECT PROX SWITCH SPST EXPLOSION PROOF
VCI-437	N/A	N/A	N/A	37786	LSP VISUAL INDICATOR
000-INL-US	527-001-800	590919	87918	N/A	LSP_CRS INLET 1/4" NPSF
LSW-001	510-599-000	563272	N/A	N/A	LSP CYCLE SWITCH SPDT
LSW-002	510-577-000	564357	N/A	N/A	LSP CYCLE SWITCH DPDT
SEE PROX BULLETIN	527-001-231	563427	N/A	N/A	LSP_REED SWITCH SPST
SEE PROX BULLETIN	527-003-431	557745	N/A	N/A	LSP HALL EFFECT PROX SWITCH SDST
SEE PROX BULLETIN	?	?	N/A	N/A	LSP 6' 3-PIN CABLE
SEE PROX BULLETIN	527-006-060	563485	N/A	N/A	LSP HALL EFFECT PROX SWITCH SPST EXPLOSION PROOF
303-INL-US	N/A	15Y070	N/A	N/A	LSP 303 INLET 1/4" NPSF
303-INL-SAE	N/A	N/A	N/A	N/A	LSP 303 INLET 7/16-20 SAE
303-INL-M	N/A	16P368	N/A	N/A	LSP 303 INLET 1/4" -19 BSPP
303-INL-ISO	N/A	N/A	N/A	N/A	LSP 303 INLET M10 X 1.0 ISO
603-INL-B	N/A	N/A	N/A	N/A	LSP 303 INLET 1/4" NPSF WITH BLEED SCREW
603-INL-B-SAE	N/A	N/A	N/A	N/A	LSP 303 INLET 7/16-20 SAE WITH BLEED SCREW
L527330	N/A	N/A	N/A	N/A	LSP 303 CROSSPORT PLATE LEFT HAND
L527320	N/A	N/A	N/A	N/A	LSP 303 CROSSPORT PLATE RIGHT HAND
L527340	N/A	N/A	N/A	N/A	LSP 303 CROSSPORT PLATE BOTH
303-BP	N/A	N/A	N/A	N/A	LSP 303 BY-PASS SECTION
L527350-303	N/A	N/A	N/A	N/A	LSP 303 SINGLING PLATE
303-BP-NPSF	N/A	24B497	N/A	N/A	LSP 303 BASE PLATE 1/8-27 NPSF
303-BP-1/8ORS	N/A	N/A	N/A	N/A	LSP 303 BASE PLATE 1/8 WITH O-RING
303-BP-SAE	N/A	N/A	N/A	N/A	LSP 303 BASE PLATE 7/16-20 SAE
303-BP-M	N/A	24N369	N/A	N/A	LSP 303 BASE PLATE 1/8-28 BSPP
303-BP-ISO	N/A	N/A	N/A	N/A	LSP 303 BASE PLATE M10.0 X 1.0 ISO
303-END	N/A	24B498	N/A	N/A	LSP 303 END PLATE
603-END	N/A	N/A	N/A	N/A	LSP 303 END WITH ALT. INLET 1/8" NPSF
LSP-TRN-SS	N/A	558633	N/A	N/A	LSP 303 TIE ROD NUT 1/4"-28 HEX
303-TR3	N/A	126247	N/A	N/A	LSP 303 3-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR4	N/A	126248	N/A	N/A	LSP 303 4-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR5	N/A	126249	N/A	N/A	LSP 303 5-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR6	N/A	126250	N/A	N/A	LSP 303 6-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR7	N/A	126251	N/A	N/A	LSP 303 7-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR8	N/A	126252	N/A	N/A	LSP 303 8-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR9	N/A	15Y069	N/A	N/A	LSP 303 9-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR10	N/A	560956	N/A	N/A	LSP 303 10-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR11	N/A	N/A	N/A	N/A	LSP 303 11-SECTION TIE ROD & NUT (PACK OF 3 EACH)
A-001-S	N/A	560973	N/A	N/A	LSP 303 PISTON CLOSURE PLUG WITH O-RING
A-002-S	N/A	N/A	N/A	N/A	LSP 303 ALTERNATE OUTLET PLUG WITH O-RING
131-1827PP	N/A	560974	N/A	N/A	LSP 303 OUTLET PORT PLUG 1/8-20 NPSF
131-1828PP	N/A	N/A	N/A	N/A	LSP 303 OUTLET PORT PLUG 1/8-28 BSPP
A-0001-S	N/A	N/A	N/A	N/A	LSP 303 OUTLET PORT PLUG 2-SAE
131-M10PP	N/A	N/A	N/A	N/A	LSP 303 OUTLET PLUG M10 X 1.0 ISO
303-05S	N/A	24B474	N/A	N/A	LSP 303 05 SINGLE
303-05T	N/A	24B479	N/A	N/A	LSP 303 05 TWIN
303-10S	N/A	562755	N/A	N/A	LSP 303 10 SINGLE
303-10T	N/A	562758	N/A	N/A	LSP 303 10 TWIN
303-15S	N/A	24B475	N/A	N/A	LSP 303 15 SINGLE
303-15T	N/A	24B480	N/A	N/A	LSP 303 15 TWIN

LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN®	FARVAL	PRODUCT DESCRIPTION
303-20S	N/A	562756	N/A	N/A	LSP 303 20 SINGLE
303-20T	N/A	562759	N/A	N/A	LSP 303 20 TWIN
303-25S	N/A	24B476	N/A	N/A	LSP 303 25 SINGLE
303-25T	N/A	24B481	N/A	N/A	LSP 303 25 TWIN
303-30S	N/A	24B477	N/A	N/A	LSP 303 30 SINGLE
303-30T	N/A	24B482	N/A	N/A	LSP 303 30 TWIN
303-35S 303-35T	N/A N/A	24B478 24B483	N/A N/A	N/A N/A	LSP 303 35 SINGLE LSP 303 35 TWIN
303-331 303-40S	N/A	562757	N/A	N/A N/A	LSP 303 40 SINGLE
303-40T	N/A	562760	N/A	N/A	LSP 303 40 TWIN
303-15S-RHCIP	N/A	N/A	N/A	N/A	LSP 303 15 SGL RHCIP
303-15T-RHCIP	N/A	N/A	N/A	N/A	LSP 303 15 TW RHCIP
303-20S-RHCIP	N/A	N/A	N/A	N/A	LSP 303 20 SGL RHCIP
303-20T-RHCIP	N/A	N/A	N/A	N/A	LSP 303 20 TW RHCIP
303-25S-RHCIP	N/A	N/A	N/A	N/A	LSP 303 25 SGL RHCIP
303-25T-RHCIP	N/A	N/A	N/A	N/A	LSP 303 25 TW RHCIP
303-30S-RHCIP	N/A	N/A	N/A	N/A	LSP 303 30 SGL RHCIP
303-30T-RHCIP 303-35S-RHCIP	N/A N/A	N/A N/A	N/A N/A	N/A N/A	LSP 303 30 TW RHCIP LSP 303 35 SGL RHCIP
303-355-RHCIP 303-35T-RHCIP	N/A N/A	N/A N/A	N/A N/A	N/A N/A	LSP 303 35 SGL RHCIP
303-40S-RHCIP	N/A	N/A	N/A	N/A	LSP 303 40 SGL RHCIP
303-40T-RHCIP	N/A	N/A	N/A	N/A	LSP 303 40 TW RHCIP
303-15S-LHCIP	N/A	N/A	N/A	N/A	LSP 303 15 SGL LHCIP
303-15T-LHCIP	N/A	N/A	N/A	N/A	LSP 303 15 TW LHCIP
303-20S-LHCIP	N/A	N/A	N/A	N/A	LSP 303 20 SGL LHCIP
303-20T-LHCIP	N/A	N/A	N/A	N/A	LSP 303 20 TW LHCIP
303-25S-LHCIP 303-25T-LHCIP	N/A	N/A	N/A	N/A	LSP 303 25 SGL LHCIP LSP 303 25 TW LHCIP
303-251-LHCIP 303-30S-LHCIP	N/A N/A	N/A N/A	N/A N/A	N/A N/A	LSP 303 25 TW LHCIP
303-305-EHCIP	N/A	N/A	N/A	N/A	LSP 303 30 TW LHCIP
303-355-LHCIP	N/A	N/A	N/A	N/A	LSP 303 35 SGL LHCIP
303-357-LHCIP	N/A	N/A	N/A	N/A	LSP 303 35 TW LHCIP
303-40S-LHCIP	N/A	N/A	N/A	N/A	LSP 303 40 SGL LHCIP
303-40T-LHCIP	N/A	N/A	N/A	N/A	LSP 303 40 TW LHCIP
SEE PROX BULLETIN	527-003-431	557745	N/A	N/A	LSP HALL EFFECT PROX SWITCH SPST
316-INL-US	N/A	N/A	N/A	N/A	LSP 316 INLET 1/4" NPSF
316-INL-SAE	N/A	N/A	N/A	N/A	LSP 316 INLET 7/16-20 SAE
316-INL-M	N/A	N/A	N/A	N/A	LSP 316 INLET 1/4" -19 BSPP
316-INL-ISO	N/A	N/A	N/A	N/A	LSP 316 INLET M10 X 1.0 ISO
616-INL-B	N/A	N/A	N/A	N/A	LSP 316 INLET 1/4" NPSF WITH BLEED SCREW
616-INL-B-SAE	N/A	N/A	N/A	N/A	LSP 316 INLET 7/16-20 SAE WITH BLEED SCREW
L527330	N/A	N/A	N/A	N/A	LSP 316 CROSSPORT PLATE LEFT HAND
L527320	N/A	N/A	N/A	N/A	LSP 316 CROSSPORT PLATE RIGHT HAND
L527340	N/A	N/A	N/A	N/A	LSP 316 CROSSPORT PLATE BOTH
316-BP	N/A	N/A	N/A	N/A	LSP 316 BY-PASS SECTION
L527350-316	N/A	N/A	N/A	N/A	LSP 316 SINGLING PLATE
316-BP-NPSF	N/A	N/A	N/A	N/A	LSP 316 BASE PLATE 1/8-27 NPSF
316-BP-1/8ORS	N/A	N/A	N/A	N/A	LSP 316 BASE PLATE 1/8 WITH O-RING
316-BP-SAE	N/A	N/A	N/A	N/A	LSP 316 BASE PLATE 7/16-20 SAE
316-BP-M	N/A	N/A	N/A	N/A	LSP 316 BASE PLATE 1/8-28 BSPP
316-BP-ISO	N/A	N/A	N/A	N/A	LSP 316 BASE PLATE M10.0 X 1.0 ISO
316-END	N/A	N/A	N/A	N/A	LSP 316 END PLATE
616-END	N/A	N/A	N/A	N/A	LSP 316 END WITH ALT. INLET 1/8" NPSF
LSP-TRN-316	N/A	N/A	N/A	N/A	LSP 316 TIE ROD NUT 1/4"-28 HEX
316-TR3	N/A	N/A	N/A	N/A	LSP 316 3-SECTION TIE ROD & NUT (PACK OF 3 EACH)
316-TR4	N/A	N/A	N/A	N/A	LSP 316 4-SECTION TIE ROD & NUT (PACK OF 3 EACH)
316-TR5	N/A	N/A	N/A	N/A	LSP 316 5-SECTION TIE ROD & NUT (PACK OF 3 EACH)
316-TR6	N/A	N/A	N/A	N/A	LSP 316 6-SECTION TIE ROD & NUT (PACK OF 3 EACH)
316-TR7	N/A	N/A	N/A	N/A	LSP 3167-SECTION TIE ROD & NUT (PACK OF 3 EACH)
316-TR8	N/A	N/A	N/A	N/A	LSP 316 8-SECTION TIE ROD & NUT (PACK OF 3 EACH)
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LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN®	FARVAL	PRODUCT DESCRIPTION
316-TR9	N/A	N/A	N/A	N/A	LSP 316 9-SECTION TIE ROD & NUT (PACK OF 3 EACH)
316-TR10	N/A	N/A	N/A	N/A	LSP 316 10-SECTION TIE ROD & NUT (PACK OF 3 EACH)
316-TR11	N/A	N/A	N/A	N/A	LSP 316 11-SECTION TIE ROD & NUT (PACK OF 3 EACH)
A-001-S	N/A	N/A	N/A	N/A	LSP 316 PISTON CLOSURE PLUG WITH O-RING
A-002-S	N/A	N/A	N/A	N/A	LSP 316 ALTERNATE OUTLET PLUG WITH O-RING
131-1827PP	N/A	N/A	N/A	N/A	LSP 316 OUTLET PORT PLUG 1/8-20 NPSF
131-1828PP	N/A	N/A	N/A	N/A	LSP 316 OUTLET PORT PLUG 1/8-28 BSPP
A-0001S	N/A	N/A	N/A	N/A	LSP 316 OUTLET PORT PLUG 2-SAE
131-M10PP	N/A	N/A	N/A	N/A	LSP 316 OUTLET PLUG M10 X 1.0 ISO
316-05S	N/A	N/A	N/A	N/A	LSP 316 05 SINGLE
316-05T	N/A	N/A	N/A	N/A	LSP 316 05 TWIN
316-10S	N/A	N/A	N/A	N/A	LSP 316 10 SINGLE
316-10T	N/A	N/A	N/A	N/A	LSP 316 10 TWIN
316-15S	N/A	N/A	N/A	N/A	LSP 316 15 SINGLE
316-15T	N/A	N/A	N/A	N/A	LSP 316 15 TWIN
316-20S	N/A	N/A	N/A	N/A	LSP 316 20 SINGLE
316-20T	N/A	N/A	N/A	N/A	LSP 316 20 TWIN
316-25S	N/A	N/A	N/A	N/A	LSP 316 25 SINGLE
316-25T	N/A	N/A	N/A	N/A	LSP 316 25 TWIN
316-30S	N/A	N/A	N/A	N/A	LSP 316 30 SINGLE
316-30T	N/A	N/A	N/A	N/A	LSP 316 30 TWIN
316-35S	N/A	N/A	N/A	N/A	LSP 316 35 SINGLE
316-35T	N/A	N/A	N/A	N/A	LSP 316 35 TWIN
316-40S	N/A	N/A	N/A	N/A	LSP 316 40 SINGLE
316-40T	N/A	N/A	N/A	N/A	LSP 316 40 TWIN
316-15S-RHCIP	N/A	N/A	N/A	N/A	LSP 316 15 SGL RHCIP
316-15T-RHCIP	N/A	N/A	N/A	N/A	LSP 316 15 TW RHCIP
316-20S-RHCIP	N/A	N/A	N/A	N/A	LSP 316 20 SGL RHCIP
316-20T-RHCIP	N/A	N/A	N/A	N/A	LSP 316 20 TW RHCIP
316-25S-RHCIP	N/A	N/A	N/A	N/A	LSP 316 25 SGL RHCIP
316-25T-RHCIP	N/A	N/A	N/A	N/A	LSP 316 25 TW RHCIP
316-30S-RHCIP	N/A	N/A	N/A	N/A	LSP 316 30 SGL RHCIP
316-30T-RHCIP	N/A	N/A	N/A	N/A	LSP 316 30 TW RHCIP
316-35S-RHCIP	N/A	N/A	N/A	N/A	LSP 316 35 SGL RHCIP
316-35T-RHCIP	N/A	N/A	N/A	N/A	LSP 316 35 TW RHCIP
316-40S-RHCIP	N/A	N/A	N/A	N/A	LSP 316 40 SGL RHCIP
316-40T-RHCIP	N/A	N/A	N/A	N/A	LSP 316 40 TW RHCIP
316-15S-LHCIP	N/A	N/A	N/A	N/A	LSP 316 15 SGL LHCIP
316-15T-LHCIP	N/A	N/A	N/A	N/A	LSP 316 15 TW LHCIP
316-20S-LHCIP	N/A	N/A	N/A	N/A	LSP 316 20 SGL LHCIP
316-20T-LHCIP	N/A	N/A	N/A	N/A	LSP 316 20 TW LHCIP
316-25S-LHCIP	N/A	N/A	N/A	N/A	LSP 316 25 SGL LHCIP
316-25T-LHCIP	N/A	N/A	N/A	N/A	LSP 316 25 TW LHCIP
316-30S-LHCIP	N/A	N/A	N/A	N/A	LSP 316 30 SGL LHCIP
316-30T-LHCIP	N/A	N/A	N/A	N/A	LSP 316 30 TW LHCIP
316-35S-LHCIP	N/A	N/A	N/A	N/A	LSP 316 35 SGL LHCIP
316-35T-LHCIP	N/A	N/A	N/A	N/A	LSP 316 35 TW LHCIP
316-40S-LHCIP	N/A	N/A	N/A	N/A	LSP 316 40 SGL LHCIP
316-40T-LHCIP	N/A	N/A	N/A	N/A	LSP 316 40 TW LHCIP

LUBRICATION SCIENTIFICS, LLC

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



LHP SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS

HIGH PRESSURE VALVES—CRITICAL MONITORING—ACCESSORIES







LHP—HIGH PRESSURE, SERIES PROGRESSIVE DIVIDER VALVE

PRODUCT DESCRIPTION	BENEFITS & FEATURES
HIGH PRESSURE, SERIES PROGRESSIVE DIVIDER VALVES	PRECISE LUBRICANT FLOW TO EACH LUBE POINT
IDEAL FOR GAS ENGINES, COMPRESSORS, AND OTHER ROTATING EQUIPMENT	STANDARD FOOTPRINT, HIGH PRESSURE 7500 PSI
AVAILABLE IN PLATED CARBON, 303, AND 316 STAINLESS STEEL	INTERNAL CHECK VALVES (316 SS BALLS & SPRINGS)
DESIGNED WITH FEEDBACK MONITORING SYSTEM PERFORMANCE	CARBON OR STAINLESS STEEL CONSTRUCTION
INTERNAL CHECK VALVES COME STANDARD KEEPING LUBE LINES FULL	USED FOR HIGH PRESSURE OIL APPLICATIONS
	1-22 LUBE POINTS PER VALVE ASSEMBLY
CAN ACCOMMODATE 1-22 LUBE POINTS PER VALVE ASSEMBLY	WIDE RANGE OF ACCESSORIES AVAILABLE FOR ANY SYSTEM REQUIREMENT

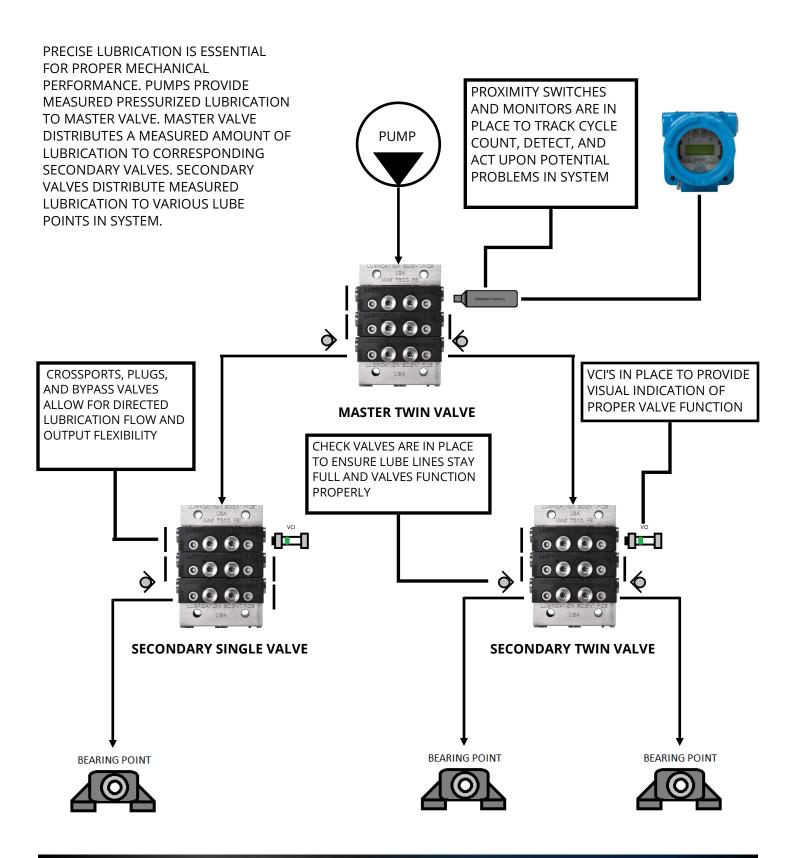
READY FOR IMMEDIATE SHIPMENT

MADE IN

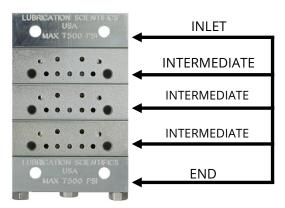


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FUNCTION ILLUSTRATION & SPECIFICATIONS



ORDERING INFORMATION & PART NUMBERS INLETS, OUTLETS, & ENDS



MANIFOLD COMPONENTS

ROHS COMPLIANT CLEAR ZINC PLATING (CRS ONLY)
SUPPLIED WITH ONLY VITON O-RINGS
INTERMEDIATES INCLUDE INTEGRAL CHECKS

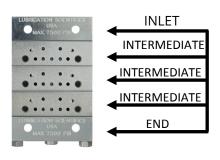
ALL INTERNAL CHECKS USE 316 SS BALLS AND SPRINGS

LINCOLN® STYLE BASEPLATE ASSEMBLIES AVAILABLE

STANDARD PACK: 5 EACH, 316 STAINLESS STEEL: 1 EACH									
PART DESCRIPTION	CRS	303 SS	316 SS						
INLET 1/4-18 NPSF	000-INL-US	303-INL-US	316-INL-US						
INLET 1/4-18 NPSF LINCOLN® STYLE	000-INL-US-L	303-INL-US-L	316-INL-US-L						
INLET 1/4-18 NPSF WITH BLEED PORTS	600-INL-B	603-INL-B	616-INL-B						
INLET 1/4-18 NPSF LINCOLN® STYLE W/ BLEED PORTS	600-INL-B-L	603-INL-B-L	616-INL-B-L						
INTERMEDIATE 1/8-27 NPSF OUTLETS	000-BP-NPSF	303-BP-NPSF	316-BP-NPSF						
INTERMEDIATE 1/8-27 SAE OUTLETS	000-BP-1/8ORS	303-BP-1/8ORS	316-BP-1/8ORS						
INTERMEDIATE 1/8-28 BSPP OUTLETS	000-BP-M	303-BP-M	316-BP-M						
INTERMEDIATE M10 X 1.0 ISO OUTLETS	000-BP-ISO	303-BP-ISO	316-BP-ISO						
INTERMEDIATE 7/16-20 SAE OUTLETS	000-BP-SAE	303-BP-SAE	316-BP-SAE						
END STANDARD	000-END	303-END	316-END						
END STANDARD LINCOLN® STYLE	000-END-L	303-END-L	316-END-L						
END 1/8 NPSF BOTTOM INLET PORT	600-END	603-END	616-END						

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BASEPLATE ASSEMBLIES

PREBUILT & TESTED

BASEPLATE ASSEMBLIES MAKE IT EASY TO COMPLETE DIVIDER VALVE ORDER. CHOOSE DIVIDER VALVES FOR SPECIFIC NEEDS AND COMPLETE VALVE SET WITH MATCHING BASEPLATE SECTIONS. <u>BASEPLATES ARE PREBUILT AND TESTED</u>. BASEPLATE ASSEMBLY ORDERS COME WITH AN END, AN INLET, TIE RODS, AND BASEPLATE SECTIONS.

STANDARD PACK: 1 EACH				
	CARBON STEEL	303 STAINLESS	316 STAINLESS	
SIZE & TYPE	PART #: NPSF	PART #: NPSF	PART #: NPSF	
	PART #: ORS	PART #: ORS	PART #: ORS	
	BPA-03-NPSF-000	BPA-03-NPSF-303	BPA-03-NPSF-316	
3 SECTION WITH STANDARD INLET AND STANDARD END	BPA-03-ORS-000	BPA-03-ORS-303	BPA-03-ORS-316	
4 CECTION WITH CTANDARD INLET AND CTANDARD FND	BPA-04-NPSF-000	BPA-04-NPSF-303	BPA-04-NPSF-316	
4 SECTION WITH STANDARD INLET AND STANDARD END	BPA-04-ORS-000	BPA-04-ORS-303	BPA-04-ORS-316	
C CECTION WITH CTANDARD INLET AND CTANDARD END	BPA-05-NPSF-000	BPA-05-NPSF-303	BPA-05-NPSF-316	
5 SECTION WITH STANDARD INLET AND STANDARD END	BPA-05-ORS-000	BPA-05-ORS-303	BPA-05-ORS-316	
C CECTION WITH CTAND ARR IN ET AND CTAND ARR END	BPA-06-NPSF-000	BPA-06-NPSF-303	BPA-06-NPSF-316	
6 SECTION WITH STANDARD INLET AND STANDARD END	BPA-06-ORS-000	BPA-06-ORS-303	BPA-06-ORS-316	
	BPA-07-NPSF-000	BPA-07-NPSF-303	BPA-07-NPSF-316	
7 SECTION WITH STANDARD INLET AND STANDARD END	BPA-07-ORS-000	BPA-07-ORS-303	BPA-07-ORS-316	
8 SECTION WITH STANDARD INLET AND STANDARD END	BPA-08-NPSF-000	BPA-08-NPSF-303	BPA-08-NPSF-316	
6 SECTION WITH STANDARD INLET AND STANDARD END	BPA-08-ORS-000	BPA-08-ORS-303	BPA-08-ORS-316	
9 SECTION WITH STANDARD INLET AND STANDARD END	BPA-09-NPSF-000	BPA-09-NPSF-303	BPA-09-NPSF-316	
SECTION WITH STANDARD INCEL AND STANDARD END	BPA-09-ORS-000	BPA-09-ORS-303	BPA-09-ORS-316	
10 SECTION WITH STANDARD INLET AND STANDARD END	BPA-10-NPSF-000	BPA-10-NPSF-303	BPA-10-NPSF-316	
10 SECTION WITH STANDARD INCELLAND STANDARD END	BPA-10-ORS-000	BPA-10-ORS-303	BPA-10-ORS-316	
11 SECTION WITH STANDARD INLET AND STANDARD END	BPA-11-NPSF-000	BPA-11-NPSF-303	BPA-11-NPSF-316	
	BPA-11-ORS-000	BPA-11-ORS-303	BPA-11-ORS-316	
FOR INLET WITH BLEEDS	USE SUFFIX "-BL"			
FOR END WITH BOTTOM FEED		USE SUFFIX "-BF"	,	
FOR LINCOLN® STYLE INLET & END	USE SUFFIX "-L"			

ORDERING EXAMPLE WITH BLEEDS AND BOTTOM FEED: BPA-03-NPSF-303-BL-BF

ORDERING INFORMATION & PART NUMBERS INTERMEDIATE VALVE SECTIONS

CARBON & STAINLESS STEEL DIVIDER VALVES

STANDARD FOOTPRINT, HIGH PRESSURE (7500 PSI)

ROHS COMPLIANT CLEAR ZINC PLAITING (CRS ONLY)

SUPPLIED WITH ONLY STAINLESS STEEL CAPS AND MOUNTING BOLTS

SUPPLIED WITH ONLY VITON O-RINGS



ALL VALVES HAVE 1/8-27 NPSF FRONT FACE ALTERNATE OUTLETS. ALL VALVES MAY BE VERTICALLY CROSSPORTED ON THE FRONT OUTLETS. ALL VALVES CAN BE EQUIPPED WITH PERFORMANCE/RESET INDICATORS.

STANDARD PACK: 5	STANDARD PACK: 5 EACH, 316 STAINLESS STEEL: 1 EACH						
SINGLE OUTPUT	P	ART NUMB	ER	TWO CHECK	PART NUMBER		
SINGLE OUTPUT	CRS	303 SS	316 SS	TWIN OUTPUT	CRS	303 SS	316 SS
.012 CI .197 CC	600-06S	603-06S	616-06S	.006 CI .098 CC	600-06T	603-06T	616-06T
.018 CI .295 CC	600-09S	603-09S	616-09S	.009 CI .148 CC	600-09T	603-09T	616-09T
.024 CI .393 CC	600-12S	603-12S	616-12S	.012 CI .197 CC	600-12T	603-12T	616-12T
.030 CI .492 CC	600-15S	603-15S	616-15S	.015 CI .246 CC	600-15T	603-15T	616-15T
.036 CI .590 CC	600-18S	603-18S	616-18S	.018 CI .295 CC	600-18T	603-18T	616-18T
.042 CI .688 CC	600-21S	603-21S	616-215	.021 CI .344 CC	600-21T	603-21T	616-21T
.048 CI .787 CC	600-24S	603-245	616-24S	.024 CI .393 CC	600-24T	603-24T	616-24T
.060 CI .983 CC	600-30S	603-30S	616-30S	.030 CI .492 CC	600-30T	603-30T	616-30T

FOR CRS BYPASS VALVE USE PART NUMBER **000-BYPASS**

FOR 303 SS BYPASS VALVE USE PART NUMBER 203-BYPASS

FOR 316 SS BYPASS VALVE USE PART NUMBER **216-BYPASS**

ORDERING INFORMATION & PART NUMBERS STAINLESS STEEL TIE RODS

303 & 316 STAINLESS STEEL TIE RODS

3 TIE RODS REQUIRED PER VALVE ASSEMBLY
ALL TIE RODS INCLUDE ROD NUT
ALL TIE RODS ARE STAINLESS STEEL

STANDARD PACK: 3 EACH						
PART DESCRIPTION	303 SS	316 SS				
3 SECTION VALVE ASSEMBLY	303-TR3	316-TR3				
4 SECTION VALVE ASSEMBLY	303-TR4	316-TR4				
5 SECTION VALVE ASSEMBLY	303-TR5	316-TR5				
6 SECTION VALVE ASSEMBLY	303-TR6	316-TR6				
7 SECTION VALVE ASSEMBLY	303-TR7	316-TR7				
8 SECTION VALVE ASSEMBLY	303-TR8	316-TR8				
9 SECTION VALVE ASSEMBLY	303-TR9	316-TR9				
10 SECTION VALVE ASSEMBLY	303-TR10	316-TR10				
11 SECTION VALVE ASSEMBLY	303-TR11	316-TR11				



ORDERING INFORMATION & PART NUMBERS SINGLING, CROSSPORTING, & REPLACEMENT PARTS

FRONT (A/O) CROSSPORT KITS

ALL STAINLESS STEEL CONSTRUCTION WITH VITON O-RINGS

STANDARD PACK: 1 EACH						
PART DESCRIPTION	303 SS	316 SS				
2 VALVES, 1 OUTPUT	303-413	316-413				
3 VALVES, 1 OUTPUT	303-414	316-414				
4 VALVES , 1 OUTPUT	303-415	316-415				



CROSSPORT BAR KITS

CRS & STAINLESS STEEL
CONSTRUCTION WITH O-RINGS &
MOUNTING BOLTS





STANDARD PACK: 5 EACH							
PART DESCRIPTION	CRS	303 SS	316 SS				
CROSSPORT BAR (RIGHT)	L527320	L527320-303	L527320-316				
CROSSPORT BAR (LEFT)	L527330	L527330-303	L527330-316				
CROSSPORT BAR (BOTH)	L527340	L527340-303	L527340-316				

SINGLING BAR KIT

CARBON & STAINLESS STEEL CONSTRUCTION
WITH VITON O-RINGS

STANDARD PACK: 5 EACH					
PART DESCRIPTION	CRS	303 SS	316 SS		
SINGLING BAR	L52735 0	L527350-303	L527350-316		

REPLACEMENT CLOSURE PLUGS & O-RINGS

STAINLESS STEEL CONSTRUCTION
O-RINGS INCLUDED





STANDARD PACK: 10 EACH						
PART DESCRIPTION	303 SS	316 SS				
ALTERNATE OUTLET (FRONT PORTS) PLUG	A-002-S	A-002-S316				
PISTON BORE PLUG	A-001-S	A-001-S316				
O-RING SEAL KIT—ALL VALVES/INTERMEDIATES/ENDS	LSP-ORSK	LSP-ORSK				

NOTES REGARDING ADDITIONAL ACCESSORIES

TECHNICAL BULLETINS AVAILABLE FOR ALL ACCESSORIES. REFER TO PAGE 17 IF ADDITIONAL INFORMATION IS DESIRED ON A SPECIFIC PRODUCT.

PROXIMITY SWITCH AND CABLES

STANDARD PACK: 1 EACH				
ITEM DESCRIPTION	VALVE ADAPTER	PART NUMBER	MAX PSI/BAR	HAZARD RATING
PROXIMITY SWITCH, 3 PIN MINI-QUICK DISCONNECT	LSP/LHP	L527251	7,500 PSI 517 BAR	NO RATING
PROXIMITY SWITCH, 4 PIN MINI-QUICK DISCONNECT	LSP/LHP	L527112	7,500 PSI 517 BAR	NO RATING
PROXIMITY SWITCH, 5 PIN MINI-QUICK DISCONNECT	LSP/LHP	L527111	7,500 PSI 517 BAR	NO RATING
PROXIMITY SWITCH, EXPLOSION PROOF, 1/2" NPT WITH LEADS	LSP/LHP	L527431	7,500 PSI 517 BAR	CLASS I, GROUPS A,B,C,D CLASS II, GROUPS E,F,G CLASS III



STANDARD PACK: 1 CABLE			
ITEM DESCRIPTION	12' CABLE PART NUMBER		
12' 3 PIN CABLE	L527251-CBL12		
12' 4 PIN CABLE	L527112-CBL12		
12' 5 PIN CABLE	L527111-CBL12		

STANDARD PACK: 5 EACH							
CHECK V	ALVE DESCR	IPTION					
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS		
1/8" NPTF (M)	1/4" TUBE	35	OCV-303-125-NPTF	OCV-316-125-NPTF	INTEGRAL FITTING		
1/8" ORS (M)	1/4" TUBE	35	OCV-303-125-ORS	OCV-316-125-ORS	INTEGRAL FITTING		
1/8" BSPP (M)	6MM TUBE	35	OCV-303-125-BSPP	OCV-316-125-BSPP	INTEGRAL FITTING		
M10 X 1.0 ISO (M)	6MM TUBE	35	OCV-303-125-ISO	OCV-316-125-ISO	INTEGRAL FITTING		
7/16"-20 SAE (M)	1/4" TUBE	35	OCV-303-125-SAE	OCV-316-125-SAE	INTEGRAL FITTING		

STANDARD PACK: 5 EACH						
CHECK VALVE DESCRIPTION		PART NUMBER				
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS	
1/8" NPTF (M)	1/8" NPSF (F)	35 / 2.41	OCV-303-125R-35	OCV-316-125R-35	TUBE FITTING	
1/8" NPTF (M)	1/8" NPSF (F)	60 / 4.13	OCV-303-125R-60	OCV-316-125R-60	TUBE FITTING	
1/8" NPTF (M)	1/8" NPSF (F)	250 / 17.23	OCV-303-125R-250	OCV-316-125R-250	TUBE FITTING	
1/4"NPTF (M)	1/4" NPSF (F)	35 / 2.41	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING	





VISUAL CYCLE INDICATOR

STANDARD PACK: 1 EACH				
ITEM DESCRIPTION	PART NUMBER			
STAINLESS STEEL VISUAL CYCLE INDICATOR	VCI-437-L LINCOLN® STYLE			





LIMIT SWITCH

STANDARD PACK: 1 EACH		
ITEM DESCRIPTION	PART NUMBER	
LIMIT SWITCH ASSEMBLY, SPDT	LSW-001	
LIMIT SWITCH ASSEMBLY, DPDT	LSW-002	

PERFORMANCE (RESET) INDICATORS

STANDARD PACK: 5 EACH	1/8 NPSF O-RING CONNECTION	
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS
1,000 PSI	303-P1000	316-P1000
69 BAR		
1,500 PSI	303-P1500	316-P1500
103 BAR		
2,000 PSI	303-P2000	316-P2000
138 BAR		
2,500 PSI	303-P2500	316-P2500
172 BAR		
3,000 PSI	303-P3000	316-P3000
207 BAR		
3,500 PSI	303-P3500	316-P3500
241 BAR		
5,000 PSI	303-P5000	316-P5000
345 BAR		
LINCOLN® STYLE INDICATOR ADAPTER	303-PI-ADP-L	316-PI-ADP-L



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BLOWOUT FITTINGS

STANDARD PACK: 5 EACH	1/8" O-RING SEAL OR 1/8" NPTF THREADS		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303-NPTF	BOF-LP-316-NPTF	
PLAIN NUT W/ 1/4" APERTURE	BOF-LP-303-ORS	BOF-LP-316-ORS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303R-NPTF	BOF-LP-316R-NPTF	
SPUD NUT W/ 1/4" APERTURE	BOF-LP-303R-ORS	BOF-LP-316R-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303-NPTF	BOF-HP-316-NPTF	
PLAIN NUT W/ 1/8" APERTURE	BOF-HP-303-ORS	BOF-HP-316-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303R-NPTF	BOF-HP-316R-NPTF	
SPUD NUT W/ 1/8" APERTURE	BOF-HP-303R-ORS	BOF-HP-316R-ORS	







NOTE: RUPTURE DISK NOT INCLUDED

3/8" DIAMETER RUPTURE DISKS

STANDARD PACK: 25 EACH			
DISC COLOR	LOW PRESSURE BURST (PSI / BAR) (1/4" APERTURE FITTING)	HIGH PRESSURE BURST (PSI / BAR) (1/8" APERTURE FITTING)	PART NUMBER
BLACK	900 / 62	N/R	A509-276-000
GREEN	1,175 / 81	N/R	A509-277-000
YELLOW	1,450 / 100	3,700 / 255	A509-292-000
RED	1,750 / 121	4,600 / 317	A509-279-000
ORANGE	2,050 / 141	5,500 / 379	A509-280-000
ALUMINUM	2,350 / 162	N/R	A509-281-000
PINK	2,650 / 183	6,400 / 441	A509-282-000
BLUE	2,950 / 203	7,300 / 503	A509-283-000
PURPLE	3,250 / 224	8,200 / 565	A509-284-000

NOTE: ALL DISKS HAVE A RUPTURE TOLERANCE OF +500 PSI

ATMOSPHERIC RESET INDICATORS

PART NUMBER	DESCRIPTION
L5081000-NPTF	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPTF
L5081000-ORS	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-NPTF	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-ORS	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-NPTF	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-ORS	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 ORS
L5082500-NPTF	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-ORS	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 ORS
L5083000-NPTF	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-ORS	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 ORS
L5081000-316-NPTF	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPT
L5081000-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 ORS
L5082500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 ORS
L5083000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 ORS

STANDARD PACK: 5 EACH			
PRODUCT DESCRIPTION	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL
4 WAY CROSS			
1/8 NPSF (X4)	L509189-000	L509189-303	L509189-316
9/32 MTG HOLE			
4 WAY CROSS			
1/4 NPSF (X4)	L509188-000	L509188-303	L509188-316
9/32 MTG HOLE			
5 WAY CROSS			
1/4 NPSF (X4)			
1/8 NPSF (X1)	L509190-000	L509190-303	L509190-316
9/32 MTG HOLE			
2 WAY STRAIGHT			
1/8 NPSF (X2)	L509180-000	L509180-303	L509180-316
9/32 MTG HOLE			
2 WAY STRAIGHT			
1/4 NPSF (X2)	L509185-000	L509185-303	L509185-316
9/32 MTG HOLE			
90 DEGREE ELBOW			
1/8 NPSF (X2)	L509170-000	L509170-303	L509170-316
9/32 MTG HOLE			
90 DEGREE ELBOW			
1/4 NPSF (X2)	L509175-000	L509175-303	L509175-316
9/32 MTG HOLE			









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CONTAMINATION IS THE ENEMY OF RELIABILITY THE DIRT TRAP IS THE ANSWER



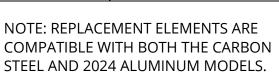




STANDARD PACK: 1 EACH		
FILTER RATING	316 STAINLESS STEEL	AL2024 BLUE ANODIZED ALUMINUM
		6,000 PSI / 414 BAR
5 MICRON	DTFA-005-O-316	MDFA-005-O
10 MICRON	DTFA-010-O-316	MDFA-010-O
25 MICRON	DTFA-025-O-316	MDFA-025-O
150 MICRON	DTFA-100-G-316	MDFA-100-G
100 MESH	DTFA-100-G-316	IVIDPA-100-G
420 MICRON	DTFA-040-G-316	MDFA-040-G
40 MESH	DIFA-040-G-316	IVIDFA-040-G

DIRT TRAP REPLACEMENT ELEMENT - STANDARD PACK 1 EA.

STANDARD PACK: 1 EACH	
FILTER RATING	PART NUMBER
5 MICRON	DT-EL-002-005MIC
10 MICRON	DT-EL-002-010MIC
25 MICRON	DT-EL-002-025MIC
150 MICRON	DT-FI -002-100M
100 MESH	D1-EL-002-100W





SPIN-ON FILTER ASSEMBLY

ANODIZED ALUMINUM MANIFOLD
STAINLESS STEEL PRESSURE GAUGES
MOUNTING BRACKET
HIGH FLOW FILTER CANISTER
FOR OIL USE ONLY
MAX PRESSURE: 150 PSI

STANDARD PACK: 1 EACH	
PART DESCRIPTION	PART NUMBER
SPIN-ON FILTER COMPLETE ASSEMBLY	LPFA-118-AL
REPLACEMENT ELEMENT	LPFA-118-RFE





SPIN-ON-FILTER COMPLETE ASSEMBLY

REPLACEMENT ELEMENT

LHP FEEDER PART NUMBER ORDERING GUIDE

LHP-XXX-XXX-XX-XXX-XXXXX

LHP-XXX-XXX-XX-XXX-XXX-XXXX		
MATERIAL	P/N	
CARBON STEEL	LEAVE BLANK	
303 STAINLESS	303	
316 STAINLESS	316	

LHP-XXX-XXX-XX-XXX-XXX-XXXX	
PORT OPTIONS	P/N
NPSF PORTS	NPT
1/8 ORS	ORS
SAE PORTS	SAE
BSPP PORTS	BSP
METRIC PORTS	MET

LHP-XXX-XXX-XX-XXX-XXXXXX	
INLET SECTION OPTION	P/N
STANDARD	MS
W/ BLEED SCREWS (NPT PORT OPTION ONLY)	MB

LHP-XXX-XXX-XX-XXX-XXXXXX		
END SECTION OPTION P/N		
STANDARD	ES	
WITH 1/8-27 NPSF PORT	EP	

LHP-XXX-XXX-XX-XXX-XXXXX	
INSTALLED ACCESSORIES	P/N
NO INTERNAL CHECK VALVES	Χ
EXTERNAL CHECK VALVES	С
PERFORMANCE INDICATORS	Р
PERFORMANCE INDICATORS & CHECK VALVES	В

LHP-XXX-XXX-XX-XXX-XXXXX	
NUMBER OF SECTIONS	P/N
THREE	3
FOUR	4
FIVE	5
SIX	6
SEVEN	7
EIGHT	8
NINE	9
TEN	10
ELEVEN	11

LHP-XXX-XXX-XX-XXX-XXXXXXX	
VALVE SIZE	P/N
BYPASS SECTION	BP
.006 CU. IN.	6
.009 CU. IN.	9
.012 CU. IN.	12
.015 CU. IN.	15
.018 CU. IN.	18
.024 CU. IN.	24
.030 CU. IN.	30

LHP-XXX-XXX-XX-XXX-XXXXXXX	
TYPE OF SECTION	P/N
TWIN	Т
SINGLE, RH OUTLET	S
SINGLE, LH OUTLET	L
TWIN, PROXIMITY SWITCH RIGHT	Е
SINGLE, PROXIMITY SWITCH RIGHT, RH OUTLET	F
SINGLE, PROXIMITY SWITCH RIGHT, LH OUTLET	G
TWIN, PROXIMITY SWITCH LEFT	М
SINGLE, PROXIMITY SWITCH LEFT, RH OUTLET	N
SINGLE, PROXIMITY SWITCH LEFT, LH OUTLET	Р

LHP-XXX-XXX-XX-XXX-XXXX-	
CROSSPORT OPTION	P/N
RIGHT SIDE	CR
LEFT SIDE	CL
BOTH SIDES	СВ

MOUNTING INFORMATION & SPECIFICATIONS

WITH 1.75" STANDARD MOUNTING HOLES

VALVE	A		В	С	D	E
SECTIONS	INCH	mm	INCH			
3	3.585/3.605	91.31	1.75	0.490	0.490	0.281
4	4.510/4.530	114.80	1.75	0.490	0.490	0.281
5	5.435/5.455	138.30	1.75	0.490	0.490	0.281
6	6.360/6.380	1 <i>6</i> 1. <i>7</i> 9	1.75	0.490	0.490	0.281
7	7.285/7.305	185.29	1.75	0.490	0.490	0.281
8	8.210/8.230	208.78	1.75	0.490	0.490	0.281

VALVE	NET WEIGHT			
SECTIONS	LBS.	KG.		
3	5.9	2.7		
4	7.3	3.3		
5	8.7	4.0		
6	10.2	4.6		
7	11.6	5.6		
8	13.0	5.9		

WITH 1.875" MOUNTING HOLES

VALVE	Д	l .	В	С	D	E	
SECTIONS	INCH	mm	INCH				
3	3.365/3.385	85.72	1.875	0.292	0.310	0.328	
4	4.290/4.310	109.22	1.875	0.292	0.310	0.328	
5	5.215/5.235	132.71	1.875	0.292	0.310	0.328	
6	6.140/6.160	156.21	1.875	0.292	0.310	0.328	
7	7.065/7.085	179.70	1.875	0.292	0.310	0.328	
8	7.990/8.010	203.20	1.875	0.292	0.310	0.328	

-1.500 --780

2.180 -**-** 1.618 -1.125 "E" .435 Θ PISTON ENCLOSURE PLUG **(**0) 0 .925 INDICATOR PORT (TYPICAL) **(**0) "A" (0) ٥ LUBE OUTLET VALVE MTG. SCREW Φ. (TYPICAL) "D" шш ш

SPECIFICATIONS

MATERIAL: ZINC PLATED STEEL, SS303,

SS316

MAX CYCLE RATE (OIL) 200 CPM

MAX PRESSURE: 7500 PSI

TORQUE SPECIFICATIONS

TIE ROD NUT: 5-8 FT/LBS

VALVE MOUNTING BOLTS: 12-13 FT/LBS

ALT. OUTLET PORTS: 8-9 FT/LBS

PISTON CLOSURE PORT: 12-15 FT/LBS

PRODUCT INTERCHANGE—LHP DIVIDER VALVES

LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN®	FARVAL	PRODUCT DESCRIPTION
000-INL-SAE	N/A	N/A	N/A	N/A	LHP CRS INLET 7/16-20 SAE
000-INL-M	N/A	N/A	N/A	N/A	LHP CRS INLET 1/4" -19 BSPP
000-INL-ISO	N/A	N/A	N/A	N/A	LHP CRS INLET M10 X 1.0 ISO
600-INL-B	527-000-321	N/A	N/A	N/A	LHP CRS INLET 1/4" NPSF WITH BLEED SCREW
600-INL-B-SAE	527-000-325	563422	N/A	N/A	LHP CRS INLET 7/16-20 SAE WITH BLEED SCREW
L527330	527-005-330	563470	N/A	N/A	LHP CRS CROSSPORT PLATE LEFT HAND
L527320	527-005-320 527-005-340	563469	N/A N/A	N/A	LHP CRS CROSSPORT PLATE RIGHT HAND
L527340 600-BYPASS	106-000-010	563471 562660	874000	N/A N/A	LHP CRS CROSSPORT PLATE BOTH LHP CRS BY-PASS SECTION
L527350	527-005-350	563472	N/A	N/A	LHP CRS SINGLING PLATE
600-BP-NPSF	527-003-330	563419	68645	N/A	LHP CRS BASE PLATE 1/8-27 NPSF
600-BP-1/8ORS	N/A	N/A	N/A	N/A	LHP CRS BASE PLATE 1/8 WITH O-RING
600-BP-SAE	527-003-550	563451	N/A	N/A	LHP CRS BASE PLATE 7/16-20 SAE
600-BP-M	N/A	N/A	N/A	N/A	LHP CRS BASE PLATE 1/8-28 BSPP
600-BP-ISO	N/A	N/A	N/A	N/A	LHP CRS BASE PLATE M10.0 X 1.0 ISO
000-END	527-001-900	563428	87956	N/A	LHP CRS END PLATE
600-END	N/A	N/A	N/A	N/A	LHP CRS END WITH ALT. INLET 1/8" NPSF
LSP-ORSK	N/A	N/A	N/A	N/A	LHP CRS VALVE AND BASE PLATE O-RINGS VITON
LSP-TRN-SS	410-440-010	556371	N/A	N/A	LHP CRS TIE ROD NUT 1/4"-28 HEX
303-TR3	527-001-930	557731	236640	N/A	LHP CRS 3-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR4	527-001-940	557732	236641	N/A	LHP CRS 4-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR5	527-001-950	557733	236642	N/A	LHP CRS 5-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR6	527-001-960	557734	236643	N/A	LHP CRS 6-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR7	527-001-970	557735	236644	N/A	LHP CRS 7-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR8	527-001-980	557736	236645	N/A	LHP CRS 8-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR9	N/A	N/A	N/A	N/A	LHP CRS 9-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR10	N/A	N/A	N/A	N/A	LHP CRS 10-SECTION TIE ROD & NUT (PACK OF 3 EACH)
303-TR11 LSP-VMB-303	N/A 419-140-070	N/A 556513	N/A N/A	N/A N/A	LHP CRS 11-SECTION TIE ROD & NUT (PACK OF 3 EACH) LHP CRS BASE ASSEMBLY SCREWS 1/4-28
N/A	N/A	N/A	N/A N/A	N/A N/A	CRS ELEMENT SCREWS 1/4-28
N/A	N/A	N/A	N/A	N/A	CRS 1/4-28 THREADED INSERT
A-001-S	527-000-232	557716	N/A	N/A	LHP CRS PISTON CLOSURE PLUG WITH O-RING
A-002-S	527-300-840	557776	N/A	N/A	LHP CRS ALTERNATE OUTLET PLUG WITH O-RING
131-1827PP	N/A	N/A	N/A	N/A	LHP CRS OUTLET PORT PLUG 1/8-20 NPSF
131-1828PP	N/A	N/A	N/A	N/A	LHP CRS OUTLET PORT PLUG 1/8-28 BSPP
A-001-S	N/A	N/A	N/A	N/A	LHP CRS OUTLET PORT PLUG 2-SAE
131-M10PP	N/A	N/A	N/A	N/A	LHP CRS OUTLET PLUG M10 X 1.0 ISO
600-06S	106-000-025	562661	876061	N/A	LHP CRS 06SINGLE
600-06T	106-000-085	562667	876062	N/A	LHP CRS 06TWIN
600-09S	106-000-035	565662	876091	N/A	LHP CRS 09 SINGLE
600-09T	106-000-095	562668	876092	N/A	LHP CRS 09 TWIN
600-12S	106-000-045	562663	876121	N/A	LHP CRS 12 SINGLE
600-12T	106-000-105	562669	876122	N/A	LHP CRS 12 TWIN
600-185	106-000-055	562664	876181	N/A	LHP CRS 18 SINGLE
600-18T	106-000-115	562670	876182	N/A	LHP CRS 18 TWIN
600-24S 600-24T	106-000-065	562665	876241 876242	N/A N/A	LHP CRS 24 SINGLE
	106-000-125	562671			LHP CRS 24 TWIN LHP CRS 30 SINGLE
600-30S 600-30T	106-000-075 106-000-135	562666 562672	N/A N/A	N/A N/A	LHP CRS 30 SINGLE LHP CRS 30 TWIN
600-12S-RHCIP	N/A	N/A	876123	N/A	LHP CRS 12 SGL RHCIP
600-12T-RHCIP	N/A	N/A	876124	N/A	LHP CRS 12 TW RHCIP
600-18S-RHCIP	106-000-205	562674	876124	N/A	LHP CRS 18 SGL RHCIP
600-18T-RHCIP	106-000-235	562676	876184	N/A	LHP CRS 18 TW RHCIP
600-24S-RHCIP	106-000-215	564252	876243	N/A	LHP CRS 24 SGL RHCIP
600-24T-RHCIP	106-000-245	562677	876244	N/A	LHP CRS 24 TW RHCIP
600-30S-RHCIP	106-000-225	562675	N/A	N/A	LHP CRS 30 SGL RHCIP
600-30T-RHCIP	106-000-255	562678	N/A	N/A	LHP CRS 30 TW RHCIP
600-12S-LHCIP	N/A	N/A	N/A	N/A	LHP CRS 15 SGL LHCIP
600-12T-LHCIP	N/A	N/A	N/A	N/A	LHP CRS 15 TW LHCIP
600-18S-LHCIP	N/A	N/A	N/A	N/A	LHP CRS 20 SGL LHCIP
	N/A	N/A	N/A	N/A	LHP CRS 20 TW LHCIP
600-18T-LHCIP				N/A	
600-24S-LHCIP	N/A	N/A	N/A		LHP CRS 25 SGL LHCIP
600-24S-LHCIP 600-24T-LHCIP	N/A	N/A	N/A	N/A	LHP CRS 25 TW LHCIP
600-24S-LHCIP 600-24T-LHCIP 600-30S-LHCIP	N/A N/A	N/A N/A	N/A N/A	N/A N/A	LHP CRS 25 TW LHCIP LHP CRS 30 SGL LHCIP
600-24S-LHCIP 600-24T-LHCIP	N/A	N/A	N/A	N/A	LHP CRS 25 TW LHCIP

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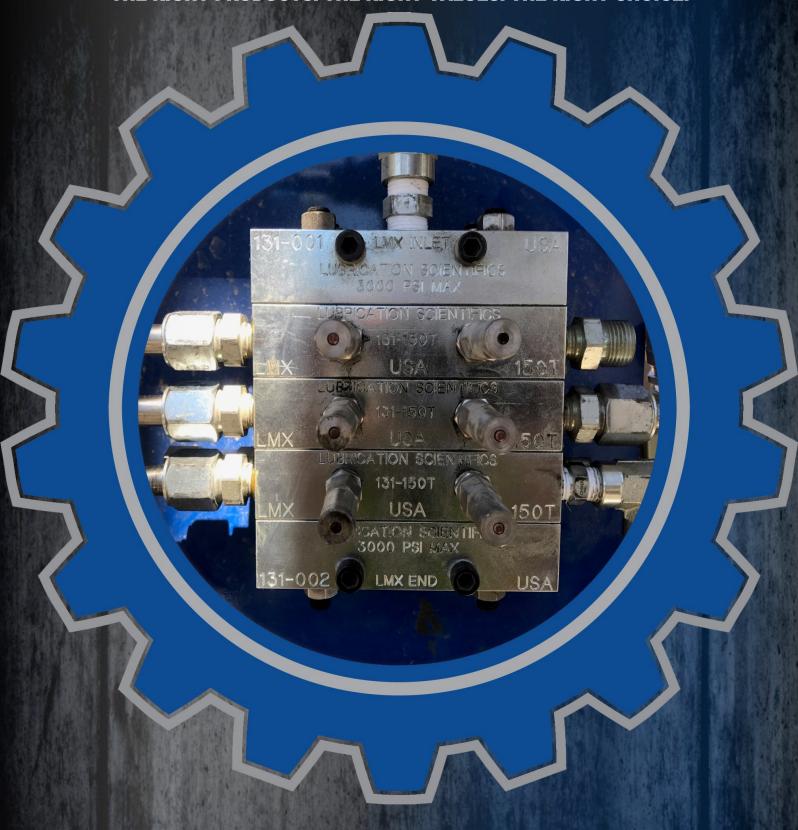
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LUBRICATION SCIENTIFICS, LLC

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



LMX SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS

MEDIUM OUTPUT VALVES—CRITICAL MONITORING—ACCESSORIES





LMX SERIES—HIGH OUTPUT, SERIES PROGRESSIVE, TRADITIONAL DIVIDER VALVES

BENEFITS & FEATURES PRODUCT DESCRIPTION HEAVY DUTY, HIGH OUTPUT, SERIES PROGRESSIVE TRADITIONAL HIGH OUTPUT DIVIDER VALVE **DIVIDER VALVE CARBON STEEL CONSTRUCTION** (316 STAINLESS STEEL UPON SPECIAL ORDER) CARBON STEEL CONSTRUCTION, STAINLESS STEEL AVAILABLE BY SPECIAL ORDER CAN ACCOMMODATE PRESSURES UP TO 3000 **PSI** LARGE FOOTPRINT, STANDARD PRESSURE, 3000 PSI USE FOR HEAVY INDUSTRY APPLICATIONS ROHS COMPLIANT CLEAR ZINC PLATING INTERNAL 316 STAINLESS STEEL OUTLET CHECK **VALVES** STAINLESS STEEL CAPS AND MOUNTING BOLTS DESIGNED FOR OIL AND GREASE INCLUDED CAN LUBRICATE 1 TO 20 LUBE POINTS GASKETS SUPPLIED WITH EACH VALVE AND END PRECISE LUBRICANT FLOW TO LUBE POINTS **SECTION**

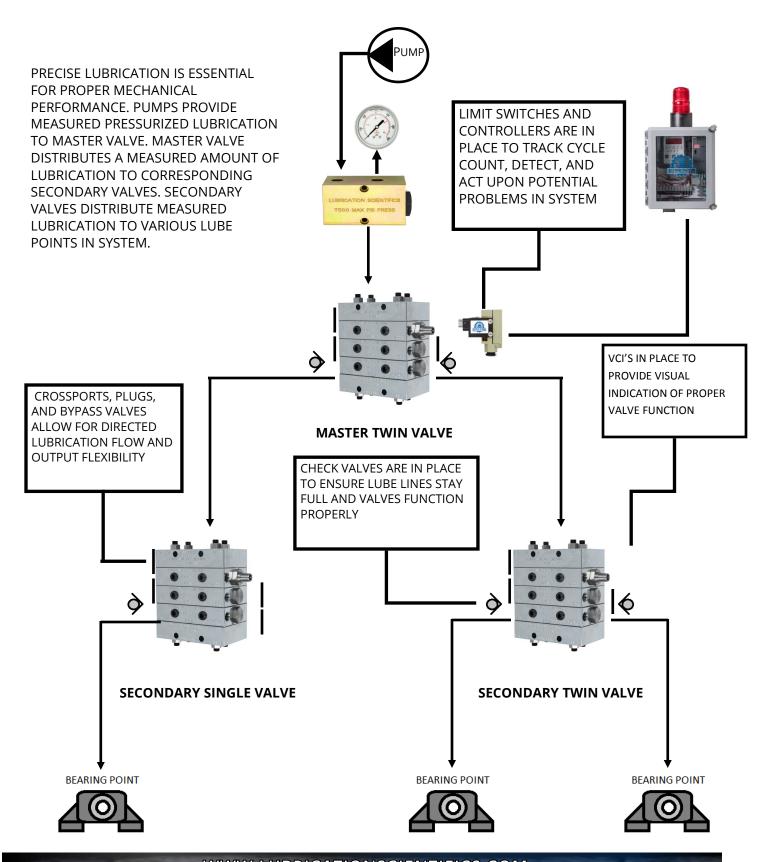
READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTION ILLUSTRATION & SPECIFICATIONS



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CARBON STEEL DIVIDER VALVES STAINLESS STEEL VALVES AVAILABLE BY SPECIAL ORDER

STANDARD PACK: 1 EACH					
SINGLE OUTPUT		TWIN	OUTPUT		
OUTPUT PER CYCLE PART NUMBER		OUTPUT PER CYCLE	PART NUMBER		
.050 CI .820 CC	131-025S	.025 CI .410 CC	131-025T		
.100 CI 1.639 CC	131-050S	.050 CI .820 CC	131-050T		
.150 CI 2.459 CC	131-075S	.075 CI 1.230 CC	131-075T		
.200 CI 3.278 CC	131-100S	.100 CI 1.639 CC	131-100T		
.250 CI 4.098 CC	131-1255	.125 CI 2.049 CC	131-125T		
.300 CI 4.917 CC	131-150S	.150 CI 2.459 CC	131-150T		

SUPPLIED WITH GASKET

ADD SUFFIX -RHCIP TO VALVE PART NUMBER TO ADD RIGHT HAND CYCLE INDICATOR PIN

CARBON STEEL MANIFOLD COMPONENTS

STANDARD PACK: 1 EACH					
PART DESCRIPTION	PART NUMBER				
INLET—3/8-18 NPSF INLET PORT	131-INL-US				
INLET—3/4-16 SAE INLET PORT	131-INL-SAE				
END (ALL)	131-END				

SUPPLIED WITH GASKET





TIE RODS—REQUIRED FOR STEEL VALVES 4 TIE RODS REQUIRED PER VALVE ASSEMBLY

STANDARD PACK: 4 EACH					
PART DESCRIPTION	PART NUMBER				
3 SECTION VALVE ASSEMBLY	131-TR3				
4 SECTION VALVE ASSEMBLY	131-TR4				
5 SECTION VALVE ASSEMBLY	131-TR5				
6 SECTION VALVE ASSEMBLY	131-TR6				
7 SECTION VALVE ASSEMBLY	131-TR7				
8 SECTION VALVE ASSEMBLY	131-TR8				
9 SECTION VALVE ASSEMBLY	131-TR9				
10 SECTION VALVE ASSEMBLY	131-TR10				

FRONT CROSSPORT KITS

STANDARD PACK: 1 EACH					
PART DESCRIPTION	PART NUMBER				
2 VALVES, 1 OUTPUT	131-303-413				
3 VALVES, 1 OUTPUT	131-303-414				
4 VALVES, 1 OUTPUT	131-303-415				

REPLACEMENT CLOSURE PLUGS & GASKETS

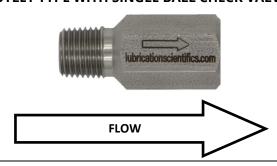
STANDARD PACK: 10 EACH					
PART DESCRIPTION	PART NUMBER				
OUTLET PLUG, 1/4-18 NPTF	A-250-A				
PISTON BORE CLOSURE PLUG WITH VITON O-RINGS	132-A-001-303				
GASKET—ALL VALVES/INTERMEDIATES, ENDS	131-GSK				

ORDERING INFORMATION & PART NUMBERS ADDITIONAL ACCESSORIES FOR LUBE SYSTEM INSTALLATIONS

RESET INDICATORS COME STANDARD WITH 1/8" THREAD. LMX PORTS ARE 1/4" THREAD, ADAPTER IS REQUIRED FOR EACH RESET INDICATOR FOR THE SERIES VALVE.

CHECK VALVES—OCV SERIES

OUTLET TYPE WITH SINGLE BALL CHECK VALVES



STANDARD PACK: 5 EACH							
CHEC	K VALVE DESCI	'E DESCRIPTION PART NUMBER					
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS 316 STAINLESS REQUIREMEN				
1/4"NPTF (M)	1/4" NPSF (F)	35 / 2.41	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING		

PERFORMANCE RESET INDICATORS W/ MEMORY

STANDARD PACK: 5 EACH	1/8 NPSF O-RING CONNECTION			
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS		
1,000 PSI	303-P1000	316-P1000		
69 BAR				
1,500 PSI	303-P1500	316-P1500		
103 BAR				
2,000 PSI	303-P2000	316-P2000		
138 BAR				
2,500 PSI	303-P2500	316-P2500		
172 BAR				
3,000 PSI	303-P3000	316-P3000		
207 BAR				
3,500 PSI	303-P3500	316-P3500		
241 BAR				
5,000 PSI	303-P5000	316-P5000		
345 BAR				
LINCOLN® STYLE INDICATOR ADAPTER	303-PI-ADP-L	316-PI-ADP-L		



NOTE: PERFORMANCE INDICATORS ARE COMPATIBLE WITH TRABON® STYLE DIVIDER VALVES ONLY

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ORDERING INFORMATION & PART NUMBERS ADDITIONAL ACCESSORIES FOR LUBE SYSTEM INSTALLATIONS

PROXIMITY SWITCHES

STANDARD PACK: 1 EACH						
ITEM DESCRIPTION	VALVE ADAPTER	PART NUMBER	MAX PSI	HAZARD RATING		
PROXIMITY SWITCH, 3 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527251-1312	7,500 PSI	NOT RATED		
PROXIMITY SWITCH, S FIN MINI-QUICK DISCONNECT	LIVIA/ LIVIAP	L32/251-1312	517 BAR	NOT RATED		
PROXIMITY SWITCH, 4 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527112-1312	7,500 PSI	NOT RATED		
PROMINITY SWITCH, 4 FIN WIINI-QUICK DISCONNECT	LIVIA/ LIVIAP		517 BAR	NOT RATED		
PROXIMITY SWITCH, 5 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527111-1312	7,500 PSI	NOT RATED		
FROMINITY SWITCH, S FIN WINN-QUICK DISCONNECT	LIVIA/ LIVIAP	L327111-1312	517 BAR	NOTRATED		
			7,500 PSI	CLASS I, GROUPS A,B,C,D		
PROXIMITY SWITCH, EXPLOSION PROOF, 1/2" NPT WITH LEADS	LMX/LMXP	L527431-1312	517 BAR	CLASS II, GROUPS E,F,G		
			JI/ DAK	CLASS III		

PROXIMITY CABLES

STANDARD PACK: 1 CABLE				
ITEM DESCRIPTION	12' CABLE PART NUMBER			
12' 3 PIN CABLE	L527251-CBL12			
12' 4 PIN CABLE	L527112-CBL12			
12' 5 PIN CABLE	L527111-CBL12			





LIMIT SWITCHES

STANDARD PACK: 1 EACH	
ITEM DESCRIPTION	PART NUMBER
LIMIT SWITCH ASSEMBLY, SPDT	LSW-001
LIMIT SWITCH ASSEMBLY, DPDT	LSW-002



CYCLE VERIFICATION DEVICES

STANDARD PACK: 1 EACH			
ITEM DESCRIPTION	PART NUMBER		
STAINLESS STEEL VISUAL CYCLE INDICATOR	VCI-437-1312		



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CONTAMINATION IS THE ENEMY OF RELIABILITY

THE DIRT TRAP IS THE ANSWER



DIRT TRAP FILTER

STANDARD PACK: 1 EACH				
FILTER RATING PLATED CARBON STE				
	7,500 PSI / 517 BAR			
5 MICRON	DTFA-005-O			
10 MICRON	DTFA-010-O			
25 MICRON	DTFA-025-O			
150 MICRON 100 MESH	DTFA-100-G			
420 MICRON 40 MESH	DTFA-040-G			

DIRT TRAP REPLACEMENT ELEMENT

STANDARD PACK: 1 EACH				
FILTER RATING	PART NUMBER			
5 MICRON	DT-EL-002-005MIC			
10 MICRON	DT-EL-002-010MIC			
25 MICRON	DT-EL-002-025MIC			
150 MICRON	DT-EL-002-100M			
100 MESH	D1-EL-002-100W			
420 MICRON	DT-EL-002-40M			
40 MESH	D1-EL-002-40M			

NOTE: REPLACEMENT ELEMENTS ARE COMPATIBLE WITH BOTH THE CARBON STEEL AND 2024 ALUMINUM MODELS.



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ORDERING INFORMATION & PART NUMBERS ADDITIONAL ACCESSORIES FOR LUBE SYSTEM INSTALLATIONS

ANCHOR BLOCKS

CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL	
L509189-000	L509189-303	L509189-316	
L509188-000	L509188-303	L509188-316	
L509190-000	L509190-303	L509190-316	
L509180-000	L509180-303	L509180-316	
L509185-000	L509185-303	L509185-316	
L509170-000	L509170-303	L509170-316	
L509175-000	L509175-303	L509175-316	
	L509189-000 L509188-000 L509180-000 L509185-000 L509170-000	L509189-000 L509189-303 L509188-000 L509188-303 L509190-000 L509190-303 L509180-000 L509180-303 L509185-000 L509185-303	









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LMX FEEDER PART NUMBER ORDERING GUIDE

LMX-XXX-XXXXXX

LMX-XXX-XXXXXX			
INSTALLED ACCESSORIES	P/N		
NO INTERNAL CHECK VALVES	Х		
EXTERNAL CHECK VALVES	С		
PERFORMANCE INDICATORS	Р		
PERFORMANCE INDICATORS & CHECK VALVES	В		

LMX-XXX-XXXXXX			
NUMBER OF SECTIONS	P/N		
THREE	3		
FOUR	4		
FIVE	5		
SIX	6		
SEVEN	7		
EIGHT	8		
NINE	9		
TEN	10		

LMX-XXX-XXXXX			
VALVE SIZE	P/N		
BYPASS SECTION	ВР		
.025 CU. IN.	25		
.050 CU. IN.	50		
.075 CU. IN.	75		
.100 CU. IN.	100		
.125 CU. IN.	125		
.150 CU. IN.	150		

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LMX-XXX-XXXXXX			
TYPE OF SECTION	P/N		
TWIN	Т		
SINGLE, RH OUTLET	S		
SINGLE, LH OUTLET	L		
TWIN, CIP RIGHT	В		
SINGLE, CIP RIGHT, RH OUTLET	С		
SINGLE, CIP RIGHT, LH OUTLET	D		
TWIN, PROXIMITY SWITCH RIGHT	Е		
SINGLE, PROXIMITY SWITCH RIGHT, RH OUTLET	F		
SINGLE, PROXIMITY SWITCH RIGHT, LH OUTLET	G		
TWIN, CIP LEFT	Н		
SINGLE, CIP LEFT, RH OUTLET	J		
SINGLE, CIP LEFT, LH OUTLET	K		
TWIN, PROXIMITY SWITCH LEFT	М		
SINGLE, PROXIMITY SWITCH LEFT, RH OUTLET	N		
SINGLE, PROXIMITY SWITCH LEFT, LH OUTLET	Р		

LMX-XXX-XXXXXX			
CROSSPORT OPTION	P/N		
RIGHT SIDE	CR		
LEFT SIDE	CL		
BOTH SIDES	СВ		

MOUNTING INFORMATION & SPECIFICATIONS

NUMBER OF SECTIONS	DIMEN	SION A	A DIMENSION B		DIMENSION C	
020110110	inch	mm	inch	mm	inch	mm
3	4.938	125.43	5.500	139.70	6.625	168.27
4	6.038	153.37	6.600	167.64	7.750	196.85
5		181.31		195.58	8.875	
6				223.52	10.000	
/		237.19		251.46	11.125	
8	10.438	265.13	11.000	279.4	12.250	
9	11.538		. —		T3.375	
10	12.638	321.01	13.100	332.74	14.500	368.30

SPECIFICATIONS

MAX CYCLE RATE (OIL) 60 CPM

MAX PRESSURE: 3000 PSI

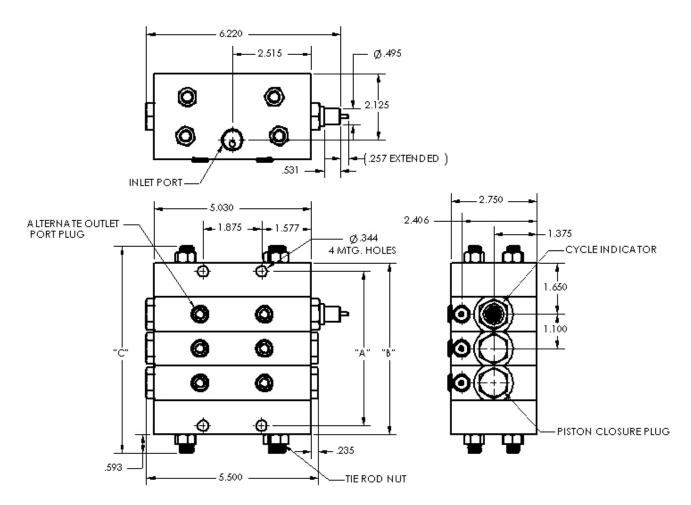
APPLICATION: OIL & GREASE

TORQUE SPECIFICATIONS

TIE ROD NUT: 30 FT/LBS

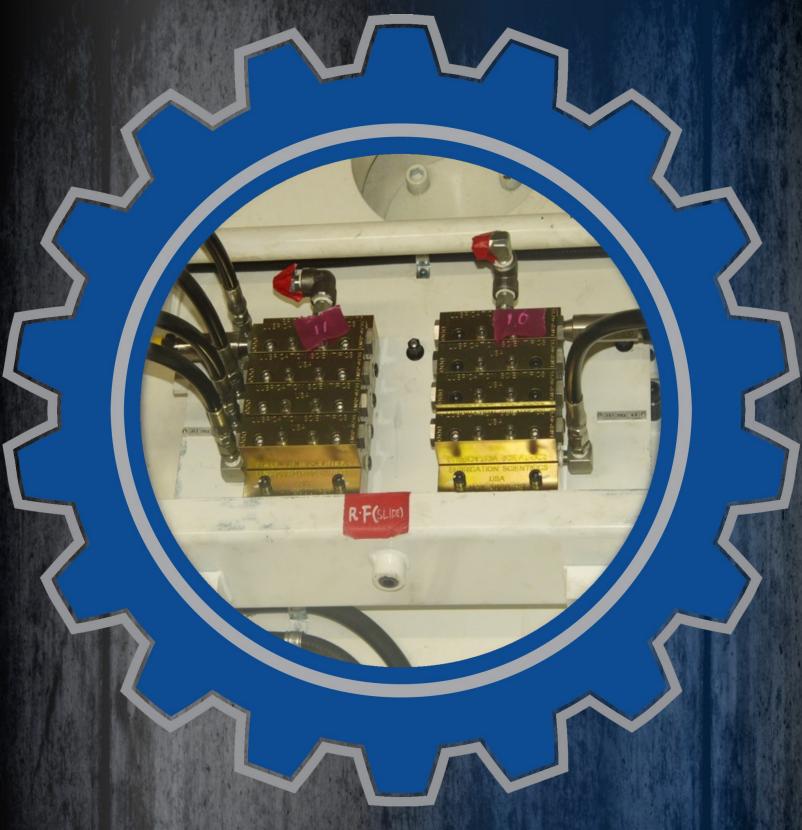
VALVE MOUNTING BOLTS: 12-13 FT/LBS

ALT. OUTLET PORTS: 8-9 FT/LBS
PISTON CLOSURE PORT: 22-24 FT/LBS



LUBRICATION SCIENTIFICS, LLC

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



LMXP SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS

MEDIUM OUTPUT MODULAR VALVES—CRITICAL MONITORING—ACCESSORIES





LMXP SERIES—HIGH OUTPUT, SERIES PROGRESSIVE, MODULAR DIVIDER VALVES

PRODUCT DESCRIPTION	BENEFITS & FEATURES
STANDARD PRESSURE, HIGH OUTPUT, MODULAR SERIES PROGRESSIVE DIVIDER VALVES	COMPLETELY MODULAR VERSION OF THE TRADITIONAL LMX SERIES DIVIDER VALVES
IDEAL FOR HEAVY INDUSTRY APPLICATIONS	GREATLY REDUCES COST AND SYSTEM DOWNTIME DUE TO MAINTENANCE, REPAIRS, AND SECTION REPLACEMENTS COMPARED TO THE TRADITIONAL STYLE
AVAILABLE IN CARBON STEEL & 316 STAINLESS STEEL	THE TRADITIONAL STILL
DESIGNED WITH FEEDBACK MONITORING SYSTEM PERFORMANCE	OUTPUT RANGES FROM .025 CI TO .30 CI PER CYCLE AT 3000 PSI
DESIGNED TO WORK WITH FULL LINE OF VERIFICATION DEVICES	INTERNAL CHECK VALVES (316 SS BALLS & SPRINGS)
INTEGRAL CHECK VALVES STANDARD	USED FOR STANDARD PRESSURE OIL OR GREASE
CAN ACCOMMODATE 1-20 LUBE POINTS PER VALVE ASSEMBLY	WIDE RANGE OF ACCESSORIES AVAILABLE FOR ANY SYSTEM REQUIREMENT

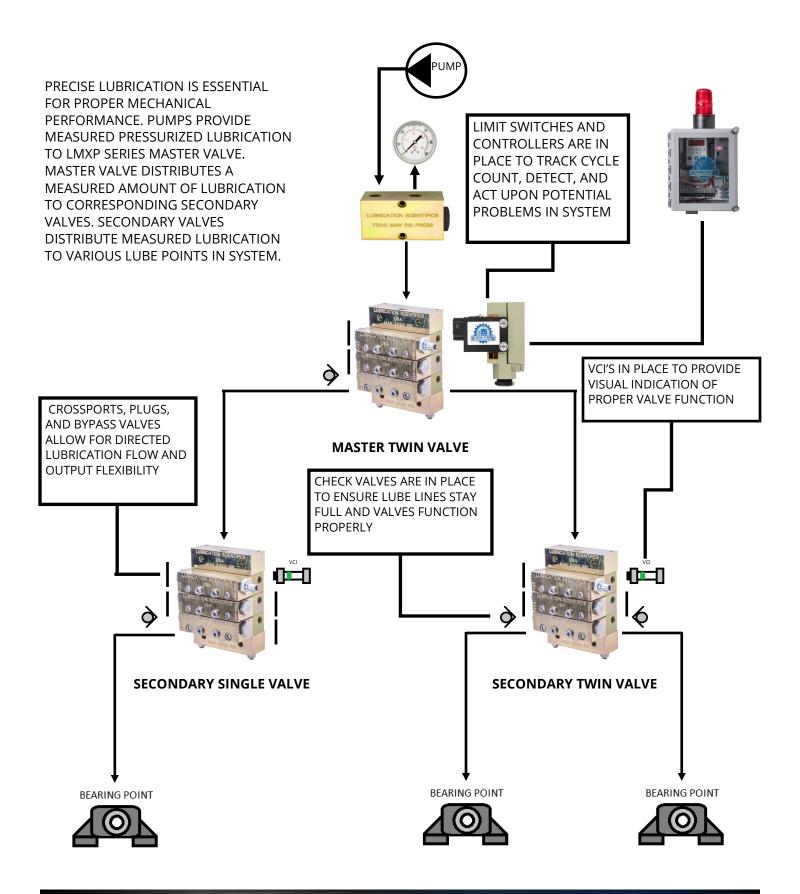
READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTION ILLUSTRATION & SPECIFICATIONS



LMXP HIGH OUTPUT MODULAR DIVIDER VALVES

STANDARD PACK: 1 EACH			
VALVE OUTPUT	CARBON STEEL	303 STAINLESS	316 STAINLESS
25S .050 CU. IN. .820 CC	132-025S	132-025S-303	132-025S-316
25T .025 CU. IN. .410 CC	132-025T	132-025T-303	132-025T-316
50S .100 CU. IN. 1.639 CC	132-050S	132-050S-303	132-050S-316
50T .050 CU. IN. .820 CC	132-050T	132-050T-303	132-050T-316
75S .150. CU. IN. .2.459 CC	132-075S	132-075S-303	132-075S-316
75T .075 CU. IN. 1.230 CC	132-075T	132-075T-303	132-075T-316
100S .200 CU. IN. 3.278 CC	132-100S	132-100S-303	132-100S-316
100T .100 CU. IN. 1.639 CC	132-100T	132-100T-303	132-100T-316
125S .250 CU. IN. 4.098 CC	132-125S	132-125S-303	132-125S-316
125T .125 CU. IN. 2.049 CC	132-125T	132-125T-303	132-125T-316
150S .300 CU. IN. 4.917 CC	132-150S	132-150S-303	132-150S-316
150T .150 CU. IN. 2.459 CC	132-150T	132-150T-303	132-150T-316
BYPASS VALVE	132-BYP	132-BYP-303	132-BYP-316



FOR VALVES WITH CYCLE INDICATOR PIN, ADD SUFFIX: - RHCIP TO ABOVE PART NUMBER. SEE EXAMPLE:

CARBON STEEL MODELS: **132-025S-RHCIP** 316 MODELS: **132-050S-RHCIP-316**

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LMXP HIGH OUTPUT MANIFOLD COMPONENTS



STANDARD PACK: 2 EACH				
PART DESCRIPTION	CARBON STEEL	303 STAINLESS	316 STAINLESS	
INLET 3/8-18 NPSF	132-INL-US	132-INL-US-303	132-INL-US-316	
INLET 3/4-16 SAE	132-INL-SAE	132-INL-SAE-303	132-INL-SAE-316	
INLET 3/8-19 BSPP	132-INL-BSPP	132-INL-BSPP-303	132-INL-BSPP-316	

STANDARD PACK: 3 EACH			
INTERMEDIATE 1/4-18 NPSF OUTLET	132-BP-NPSF	132-BP-NPSF-303	132-BP-NPSF-316
INTERMEDIATE 9/16-18 SAE OUTLET	132-BP-SAE	132-BP-SAE-303	132-BP-SAE-316
INTERMEDIATE 1/4-19 BSPP OUTLET	132-BP-BSPP	132-BP-BSPP-303	132-BP-BSPP-316

STANDARD PACK: 2 EACH			
END	132-END	132-END-303	132-END-316
STANDARD	132-END	132-END-303	132-END-310

TIE RODS WITH NUTS

STANDARD PACK: 3 EACH			
NUMBER OF VALVE SECTIONS	303 STAINLESS	316 STAINLESS	
3	132-TR3-303	132-TR3-316	
4	132-TR4-303	132-TR4-316	
5	132-TR5-303	132-TR5-316	
6	132-TR6-303	132-TR6-316	
7	132-TR7-303	132-TR7-316	
8	132-TR8-303	132-TR8-316	
9	132-TR9-303	132-TR9-316	
10	132-TR10-303	132-TR10-316	



3 TIE RODS REQUIRED TO BUILD EACH ASSEMBLY

CROSSPORT BAR KITS

STANDARD PACK: 1 EACH				
CROSSPORT TYPE	CARBON STEEL	303 STAINLESS	316 STAINLESS	
RIGHT SIDE ONLY	L527980	L527980-303	L527980-316	
LEFT SIDE ONLY	L527970	L527970-303	L527970-316	
BOTH SIDES	L527990	L527990-303	L527990-316	

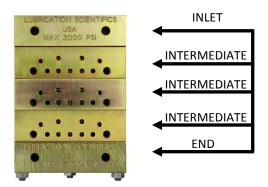
INCLUDES MOUNTING BOLTS

O-RING & PLUG KITS

STANDARD PACK: 1 EACH			
PART DESCRIPTION	PART NUMBER		
VALVE O-RING KIT	132-ORSK		
VALVE CLOSURE PLUG W/ O-RING	132-A-001-303		
ALTERNATIVE OUTLET PLUG W/ O-RING	A-002-S		

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LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS



BASEPLATE ASSEMBLIES

PREBUILT & TESTED

BASEPLATE ASSEMBLIES MAKE IT EASY TO COMPLETE DIVIDER VALVE ORDER. CHOOSE DIVIDER VALVES FOR YOUR SPECIFIC NEEDS AND COMPLETE VALVE SET WITH THE MATCHING BASEPLATE SECTIONS. <u>BASEPLATES ARE PREBUILT AND TESTED</u>. BASEPLATE ASSEMBLY ORDERS COME WITH AN END, AN INLET, TIE RODS, AND BASEPLATE SECTIONS.

	CARBON STEEL	303 STAINLESS	316 STAINLESS
CIZE O TVDE	PART #: NPSF	PART #: NPSF	PART #: NPSF
SIZE & TYPE	PART #: ORS (O-RING)	PART #: ORS (O-RING)	PART #: ORS (O-RING)
3 SECTION WITH STANDARD INLET	XBPA-03-NPSF-000	XBPA-03-NPSF-303	XBPA-03-NPSF-316
AND STANDARD END	XBPA-03-SAE-000	XBPA-03-SAE-303	XBPA-03-SAE-316
4 SECTION WITH STANDARD INLET	XBPA-04-NPSF-000	XBPA-04-NPSF-303	XBPA-04-NPSF-316
AND STANDARD END	XBPA-04-SAE-000	XBPA-04-SAE-303	XBPA-04-SAE-316
5 SECTION WITH STANDARD INLET	XBPA-05-NPSF-000	XBPA-05-NPSF-303	XBPA-05-NPSF-316
AND STANDARD END	XBPA-05-SAE-000	XBPA-05-SAE-303	XBPA-05-SAE-316
6 SECTION WITH STANDARD INLET	XBPA-06-NPSF-000	XBPA-06-NPSF-303	XBPA-06-NPSF-316
AND STANDARD END	XBPA-06-SAE-000	XBPA-06-SAE-303	XBPA-06-SAE-316
7 SECTION WITH STANDARD INLET	XBPA-07-NPSF-000	XBPA-07-NPSF-303	XBPA-07-NPSF-316
AND STANDARD END	XBPA-07-SAE-000	XBPA-07-SAE-303	XBPA-07-SAE-316
8 SECTION WITH STANDARD INLET	XBPA-08-NPSF-000	XBPA-08-NPSF-303	XBPA-08-NPSF-316
AND STANDARD END	XBPA-08-SAE-000	XBPA-08-SAE-303	XBPA-08-SAE-316
9 SECTION WITH STANDARD INLET	XBPA-09-NPSF-000	XBPA-09-NPSF-303	XBPA-09-NPSF-316
AND STANDARD END	XBPA-09-SAE-000	XBPA-09-SAE-303	XBPA-09-SAE-316
10 SECTION WITH STANDARD	XBPA-10-NPSF-000	XBPA-10-NPSF-303	XBPA-10-NPSF-316
INLET AND STANDARD END	XBPA-10-SAE-000	XBPA-10-SAE-303	XBPA-10-SAE-316

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NOTES REGARDING ADDITIONAL ACCESSORIES

TECHNICAL BULLETINS AVAILABLE FOR ALL ACCESSORIES. REFER TO PAGE 18 IF ADDITIONAL INFORMATION IS DESIRED ON A SPECIFIC PRODUCT.

PROXIMITY SWITCH AND CABLES

STANDARD PACK: 1 EACH				
ITEM DESCRIPTION	VALVE ADAPTER	PART NUMBER	MAX PSI	HAZARD RATING
PROXIMITY SWITCH, 3 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527251-1312	7,500 PSI 517 BAR	NO RATING
PROXIMITY SWITCH, 4 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527112-1312	7,500 PSI 517 BAR	NO RATING
PROXIMITY SWITCH, 5 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527111-1312	7,500 PSI 517 BAR	NO RATING
PROXIMITY SWITCH, EXPLOSION PROOF, 1/2" NPT WITH LEADS	LMX/LMXP	L527431-1312	7,500 PSI 517 BAR	CLASS I, GROUPS A,B,C,D CLASS II, GROUPS E,F,G CLASS III



STANDARD PACK: 1 CABLE			
ITEM DESCRIPTION	12' CABLE PART NUM- BER		
12' 3 PIN CABLE	L527251-CBL12		
12' 4 PIN CABLE	L527112-CBL12		
12' 5 PIN CABLE	L527111-CBL12		

VISUAL CYCLE INDICATOR

STANDARD PACK: 1 EACH		
ITEM DESCRIPTION	PART NUMBER	
STAINLESS STEEL VISUAL CYCLE INDICATOR	VCI-437-1312	





LIMIT SWITCH

STANDARD PACK: 1 EACH		
ITEM DESCRIPTION	PART NUMBER	
LIMIT SWITCH ASSEMBLY, SPDT	LSW-001	
LIMIT SWITCH ASSEMBLY, DPDT	LSW-002	

PERFORMANCE (RESET) INDICATORS

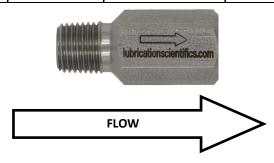
STANDARD PACK: 5 EACH	1/8 NPSF O-RING	1/8 NPSF O-RING CONNECTION		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS		
1,000 PSI	303-P1000	316-P1000		
69 BAR				
1,500 PSI	303-P1500	316-P1500		
103 BAR				
2,000 PSI	303-P2000	316-P2000		
138 BAR				
2,500 PSI	303-P2500	316-P2500		
172 BAR				
3,000 PSI	303-P3000	316-P3000		
207 BAR				
3,500 PSI	303-P3500	316-P3500		
241 BAR				
5,000 PSI	303-P5000	316-P5000		
345 BAR				



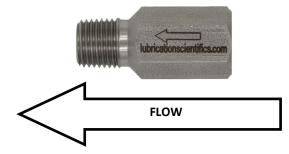
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OUTLET CHECK VALVE

STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION PART NUMBER					
INLET SIZE	OUTLET SIZE	BALL OPEN PSI / BAR	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/4"NPTF (M)	1/4" NPSF (F)	35 / 2.41	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING

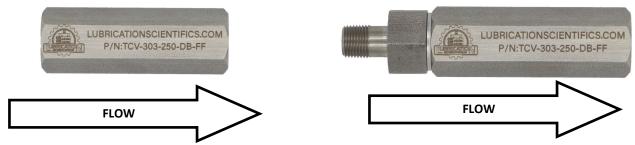


TERMINATING CHECK VALVE—SINGLE BALL



TERMINATING CHECK VALVE—DOUBLE BALL, HIGH OUTPUT

1/4" NPSF (F)	1/4" NPSF (F)	50 / 3.44	TCV-303-250-DB-FF	TCV-316-250-DB-FF	INL/OUTL ADAPTER
1/4" NPSF (F)	1/4" NPTF (M)	50 / 3.44	TCV-303-250-DB-FM4	TCV-316-250-DB-FM4	INLET ADAPTER



FOR MORE INFORMATION ON CHECK VALVES, SEE BULLETIN LSM011

CONTAMINATION IS THE ENEMY OF RELIABILITY

THE DIRT TRAP IS THE ANSWER



DIRT TRAP FILTER

STANDARD PACK: 1 EACH		
FILTER RATING	PLATED CARBON STEEL	
	7,500 PSI / 517 BAR	
5 MICRON	DTFA-005-O	
10 MICRON	DTFA-010-O	
25 MICRON	DTFA-025-O	
150 MICRON 100 MESH	DTFA-100-G	
420 MICRON 40 MESH	DTFA-040-G	

DIRT TRAP REPLACEMENT ELEMENT

STANDARD PACK: 1 EACH			
FILTER RATING PART NUMBER			
5 MICRON	DT-EL-002-005MIC		
10 MICRON	DT-EL-002-010MIC		
25 MICRON	DT-EL-002-025MIC		
150 MICRON	DT EL 002 100M		
100 MESH	DT-EL-002-100M		
420 MICRON	DT-EL-002-40M		
40 MESH			

NOTE: REPLACEMENT ELEMENTS ARE COMPATIBLE WITH BOTH THE CARBON STEEL AND 2024 ALUMINUM MODELS.



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COMPLETE FILTER ASSEMBLY (NO GAUGE)

PRODUCT DESCRIPTION PART NUMBER FILTER ASSEMBLY (SHORT) 10 MICRONS FILTER ASSEMBLY (SHORT) 20 MICRONS CFIL-20-US FILTER ASSEMBLY (SHORT) 50 MICRONS CFIL-50-US

NOTE: PRESSURE GAUGES SOLD SEPARATELY

STANDARD PACK: 1 EACH			
PRODUCT DESCRIPTION	PART NUMBER		
FILTER ASSEMBLY (LONG) 10 MICRONS	CFIL-10-UL		
FILTER ASSEMBLY (LONG) 20 MICRONS	CFIL-20-UL		
FILTER ASSEMBLY (LONG) 50 MICRONS	CFIL-50-UL		

NOTE: PRESSURE GAUGES SOLD SEPARATELY



REPLACEMENT FILTER ELEMENTS & GAUGE

STANDARD PACK: 1 EACH			
PRODUCT DESCRIPTION	PART NUMBER		
FILTER ELEMENT (SHORT) 10 MICRONS	CFIL-10-ES		
FILTER ELEMENT (SHORT) 20 MICRONS	CFIL-20-ES		
FILTER ELEMENT (SHORT) 50 MICRONS	CFIL-50-ES		

STANDARD PACK: 1 EACH	
PRODUCT DESCRIPTION	PART NUMBER
FILTER ELEMENT (LONG) 10 MICRONS	CFIL-10-EL
FILTER ELEMENT (LONG) 20 MICRONS	CFIL-20-EL
FILTER ELEMENT (LONG) 50 MICRONS	CFIL-50-EL

STANDARD PACK: 1 EACH		
GAUGE DESCRIPTION	PART NUMBER	
LOWER MOUNT, 1/4 NPTF, 5000 PSI	LM-25-5K-4	



SPIN-ON FILTER ASSEMBLY

ANODIZED ALUMINUM MANIFOLD
STAINLESS STEEL PRESSURE GAUGES
MOUNTING BRACKET
HIGH FLOW FILTER CANISTER
FOR OIL USE ONLY
MAX PRESSURE: 150 PSI

STANDARD PACK: 1 EACH	
PART DESCRIPTION	PART NUMBER
SPIN-ON FILTER COMPLETE ASSEMBLY	LPFA-118-AL
REPLACEMENT ELEMENT	LPFA-118-RFE





SPIN-ON-FILTER COMPLETE ASSEMBLY

REPLACEMENT ELEMENT

ORDERING INFORMATION & PART NUMBERS ADDITIONAL ACCESSORIES FOR LUBE SYSTEM INSTALLATIONS

ANCHOR BLOCKS

CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL
L509189-000	L509189-303	L509189-316
L509188-000	L509188-303	L509188-316
L509190-000	L509190-303	L509190-316
L509180-000	L509180-303	L509180-316
L509185-000	L509185-303	L509185-316
L509170-000	L509170-303	L509170-316
L509175-000	L509175-303	L509175-316
	L509189-000 L509188-000 L509180-000 L509185-000 L509170-000	L509189-000 L509189-303 L509188-000 L509188-303 L509180-000 L509180-303 L509185-000 L509185-303 L509170-000 L509170-303









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NOTES REGARDING ADDITIONAL ACCESSORIES:

FOR MORE DETAILED INFORMATION AND ORDERING REGARDING **BLOWOUT FITTINGS** REFER TO LSM002

STANDARD PACK: 5 EACH	1/8" O-RING SEAL OR 1/8" NPTF THREADS		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303-NPTF	BOF-LP-316-NPTF	
PLAIN NUT W/ 1/4" APERTURE	BOF-LP-303-ORS	BOF-LP-316-ORS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303R-NPTF	BOF-LP-316R-NPTF	
SPUD NUT W/ 1/4" APERTURE	BOF-LP-303R-ORS	BOF-LP-316R-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303-NPTF	BOF-HP-316-NPTF	
PLAIN NUT W/ 1/8" APERTURE	BOF-HP-303-ORS	BOF-HP-316-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303R-NPTF	BOF-HP-316R-NPTF	
SPUD NUT W/ 1/8" APERTURE	BOF-HP-303R-ORS	BOF-HP-316R-ORS	

BLOWOUT FITTINGS







NOTE: DOES NOT INCLUDE BLOWOUT DISCS

STANDARD PACK: 25 EACH					
DISC COLOR	LOW PRESSURE BURST (PSI / BAR) (1/4" APERTURE FITTING)	HIGH PRESSURE BURST (PSI / BAR) (1/8" APERTURE FITTING)	PART NUMBER		
BLACK	900 / 62	N/R	A509-276-000		
GREEN	1,175 / 81	N/R	A509-277-000		
RED	1,750 / 121	4,600 / 317	A509-279-000		
ORANGE	2,050 / 141	5,500 / 380	A509-280-000		
ALUMINUM	2,350 / 162	N/R	A509-281-000		
PINK	2,650 / 183	6,400 / 441	A509-282-000		
BLUE	2,950 / 203	7,300 / 503	A509-283-000		
PURPLE	3,250 / 224	8,200 / 565	A509-284-000		

NOTE: ALL DISKS HAVE A RUPTURE TOLERANCE OF +500 PSI

ATMOSPHERIC RESET INDICATORS

PART NUMBER	DESCRIPTION
L5081000-NPTF	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPTF
L5081000-ORS	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-NPTF	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-ORS	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-NPTF	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-ORS	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 ORS
L5082500-NPTF	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-ORS	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 ORS
L5083000-NPTF	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-ORS	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 ORS
L5081000-316-NPTF	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPT
L5081000-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 ORS
L5082500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 ORS
L5083000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 ORS

LMXP FEEDER PART NUMBER ORDERING GUIDE

LMXP-XXX-XXX-XXXXXX

LMXP-XXX-XXX-XXXXX				
MATERIAL	P/N			
CARBON STEEL	LEAVE BLANK			
303 STAINLESS	303			
316 STAINLESS	316			

LMXP-XXX-XXX-XXXXXX				
PORT OPTIONS	P/N			
NPSF PORTS	NPT			
SAE PORTS	SAE			
BSPP PORTS	BSP			
METRIC PORTS	MET			

LMXP-XXX-XXX-XXXXX				
INSTALLED ACCESSORIES	P/N			
NO INTERNAL CHECK VALVES	Χ			
EXTERNAL CHECK VALVES	С			
PERFORMANCE INDICATORS	Р			
PERFORMANCE INDICATORS & CHECK VALVES	В			

LMXP-XXX-XXX-XXXX		
NUMBER OF SECTIONS	P/N	
THREE	3	
FOUR	4	
FIVE	5	
SIX	6	
SEVEN	7	
EIGHT	8	
NINE	9	
TEN	10	

LMXP-XXX-XXX-XXXX				
VALVE SIZE	P/N			
BYPASS SECTION	ВР			
.025 CU. IN.	25			
.050 CU. IN.	50			
.075 CU. IN.	75			
.100 CU. IN.	100			
.125 CU. IN.	125			
.150 CU. IN.	150			

LMXP-XXX-XXX-XXXXXXX			
TYPE OF SECTION	P/N		
TWIN	Т		
SINGLE, RH OUTLET	S		
SINGLE, LH OUTLET	L		
TWIN, CIP RIGHT	В		
SINGLE, CIP RIGHT, RH OUTLET	С		
SINGLE, CIP RIGHT, LH OUTLET	D		
TWIN, PROXIMITY SWITCH RIGHT	Е		
SINGLE, PROXIMITY SWITCH RIGHT, RH OUTLET	F		
SINGLE, PROXIMITY SWITCH RIGHT, LH OUTLET	G		
TWIN, CIP LEFT	Н		
SINGLE, CIP LEFT, RH OUTLET	J		
SINGLE, CIP LEFT, LH OUTLET	K		
TWIN, PROXIMITY SWITCH LEFT	М		
SINGLE, PROXIMITY SWITCH LEFT, RH OUTLET	N		
SINGLE, PROXIMITY SWITCH LEFT, LH OUTLET	Р		

LMXP-XXX-XXX-XXXXXXX				
CROSSPORT OPTION	P/N			
RIGHT SIDE	CR			
LEFT SIDE	CL			
BOTH SIDES	СВ			

MOUNTING INFORMATION & SPECIFICATIONS

NUMBER OF SECTIONS	DIMENSION "A"		DIMENSION "B"		WEIGHT	
SECTIONS	inch	mm	inch	mm	pound	kg
3	6.650	168.91	5.350	135.89	18.2	8.3
4	8.000	203.20	6.700	1 <i>7</i> 0.18	22.6	10.2
5	9.350	237.49	8.050	204.47	26.9	12.2
6	10.700	271.78	9.400	238.76	31.3	14.2
7	12.050	306.07	10.750	273.05	35.6	16.2
8	13.400	340.36	12.100	307.34	39.9	18.1
9	14.750	374.65	13.450	341.63	44.3	20.1
10	16.100	408.94	14.800	375.92	48.6	22.1

SPECIFICATIONS

MATERIAL: ZINC PLATED STEEL, SS316

MAX CYCLE RATE (OIL) 60 CPM

MAX PRESSURE: 3000 PSI

APPLICATION: OIL & GREASE

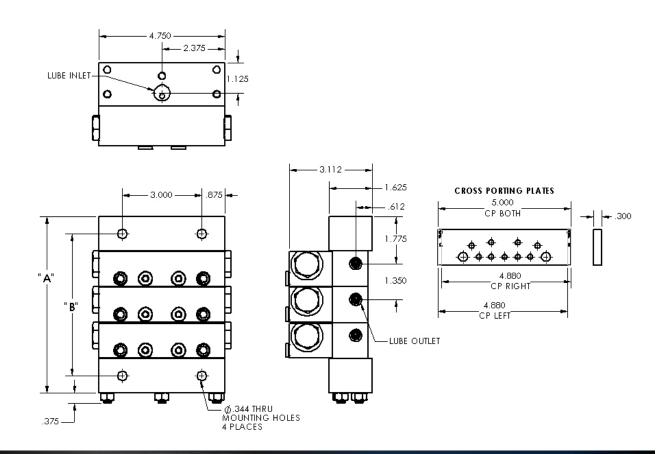
TORQUE SPECIFICATIONS

TIE ROD NUT: 8-9 FT/LBS

VALVE MOUNTING BOLTS: 12-13 FT/LBS

ALT. OUTLET PORTS: 8-9 FT/LBS

PISTON CLOSURE PORT: 22-24 FT/LBS



LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

PRODUCT INTERCHANGE—LMXP DIVIDER VALVES

LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN	FARVAL	PRODUCT DESCRIPTION
132-INL-US	527-300-000	15R993	N/A	N/A	LMXP CS INLET 3/8-18 NPSF
132-INL SAE	527-300-001	15R994	N/A	N/A	LMXP CS INLET 3/4-16 SAE
132-BP-BSPP	527-300-760	561029	N/A	N/A	LMXP CS INLET 3/8 BSPP 3.00
132-BP-NPSF	527-300-100	563519	N/A	N/A	LMXP INTERMEDIATE 1/4" NPSF
132-BP-SAE	527-300-710	563521	N/A	N/A	LMXP INTERMEDIATE 9/16 SAE
132-BP-BSPP	527-300-740	563522	67359	N/A	LMXP INTERMEDIATE 1/4 BSPP
132-END 132-VORK	527-300-090 N/A	563518 N/A	N/A N/A	N/A N/A	LMXP CS END LMXP CS VALVE O-RINGS
LMXP-VMB-SS	N/A	N/A	N/A	N/A	LMXP CS VALVE ONINGS LMXP CS VALVE MOUNT BOLTS
N/A	N/A	N/A	87030-3	N/A	LINCOLN XL 3 VALVE INLET BASE AND END PLATE (ONE PIECE)
N/A	N/A	N/A	87030-4	N/A	LINCOLN XL 4 VALVE INLET BASE AND END PLATE (ONE PIECE)
N/A	N/A	N/A	87030-6	N/A	LINCOLN XL 6 VALVE INLET BASE AND END PLATE (ONE PIECE)
132-TR3	527-300-270	557766	N/A	N/A	LMXP 303 3-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR4	527-300-280	557767	N/A	N/A	LMXP 303 4-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR5	527-300-290	557768	N/A	N/A	LMXP 303 5-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR6	527-300-300	557769	N/A	N/A	LMXP 303 6-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR7	527-300-310	557770	N/A	N/A	LMXP 303 7-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR8	527-300-320	557771	N/A	N/A	LMXP 303 8-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR9	527-300-330	557772	N/A	N/A	LMXP 303 9-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR10	527-300-340	563520	N/A	N/A	LMXP 303 10-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
131-TRN-SS	410-440-020	555406	N/A	N/A	LMXP 3/8-24 TIE ROD HEX NUT
L527970	N/A	N/A	87823	N/A	LMXP SS CROSSPORT PLATE LEFT
L527980	N/A	N/A	87823	N/A	LMXP SS CROSSPORT PLATE RIGHT
L527990	N/A	N/A	87823 (2 EA.)	N/A	LMXP SS CROSSPORT PLATE BOTH
L527301	N/A N/A	N/A	87824	N/A	LMXP SS SINGLING PLATE
132-A-001-S A-002-S	N/A	N/A N/A	N/A 67359	N/A N/A	LMXP SS VALVE CLOSURE PLUG WITH O-RING LMXP SS ALTERNATE OUTLET PLUG WITH O-RING
132-BYPASS	106-300-410	562835	87028	N/A	LMXP CS BYPASS SECTION
132-255	106-300-410	562819	87026-03S	N/A	LMXP CS 25 SINGLE VALVE SECTION
132-25T	106-300-010	562813	87026-03T	N/A	LMXP CS 25 TWINVALVE SECTION
132-50S	106-300-080	562820	87026-05S	N/A	LMXP CS 50 SINGLE VALVE SECTION
132-50T	106-300-020	562814	87026-05T	N/A	LMXP CS 50 TWIN VALVE SECTION
132-75S	106-300-090	562821	87026-08S	N/A	LMXP CS 75 SINGLE VALVE SECTION
132-75T	106-300-030	562815	87026-08T	N/A	LMXP CS 75 TWIN VALVE SECTION
132-100S	106-300-100	562822	87026-10S	N/A	LMXP CS 100 SINGLE VALVE SECTION
132-100T	106-300-040	562816	87026-10T	N/A	LMXP CS 100 TWIN VALVE SECTION
132-125S	106-300-110	562823	87026-12S	N/A	LMXP CS 125 SINGLE VALVE SECTION
132-125T	106-300-050	562817	87026-12T	N/A	LMXP CS 125 TWIN VALVE SECTION
132-150S	106-300-120	562824	87026-15S	N/A	LMXP CS 150 SINGLE VALVE SECTION
132-150T	106-300-060	562818	87026-15T	N/A	LMXP CS 150 TWIN VALVE SECTION
132-50S-RHCIP	N/A	N/A	N/A	N/A	LMXP CS 50 SINGLE VALVE SECTION-RHCIP
132-50T-RHCIP 132-75S-RHCIP	N/A N/A	N/A N/A	N/A N/A	N/A N/A	LMXP CS 50 TWIN VALVE SECTION-RHCIP LMXP CS 75 SINGLE VALVE SECTION-RHCIP
132-75T-RHCIP	N/A N/A	N/A	N/A N/A	N/A	LMXP CS 75 TWIN VALVE SECTION-RHCIP
132-100S-RHCIP	N/A	N/A	N/A	N/A	LMXP CS 100 SINGLE VALVE SECTION-RHCIP
132-1005 RHCIP	N/A	N/A	N/A	N/A	LMXP CS 100 SWIN VALVE SECTION-RHCIP
132-125S-RHCIP	N/A	N/A	N/A	N/A	LMXP CS 125 SINGLE VALVE SECTION-RHCIP
132-125T-RHCIP	N/A	N/A	N/A	N/A	LMXP CS 125 TWIN VALVE SECTION-RHCIP
132-150S-RHCIP	N/A	N/A	N/A	N/A	LMXP CS 150 SINGLE VALVE SECTION-RHCIP
132-150T-RHCIP	N/A	N/A	N/A	N/A	LMXP CS 150 TWIN VALVE SECTION
132-INL-US-303	N/A	N/A	N/A	N/A	LMXP 303 INLET 3/8-18 NPSF
132-INL SAE-303	N/A	N/A	N/A	N/A	LMXP 303 INLET 3/4-16 SAE
132-BP-BSPP-303	N/A	N/A	N/A	N/A	LMXP 303 INLET 3/8 BSPP 3.00
132-BP-NPSF-303	N/A	N/A	N/A	N/A	LMXP INTERMEDIATE 1/4" NPSF
132-BP-SAE-303	N/A	N/A	N/A	N/A	LMXP INTERMEDIATE 9/16 SAE
132-BP-BSPP-303	N/A	N/A	N/A	N/A	LMXP INTERMEDIATE 1/4 BSPP
132-END-303	N/A	N/A	N/A	N/A	LMXP 303 END
132-VORK LMXP-VMB-SS	N/A N/A	N/A N/A	N/A N/A	N/A	LMXP 303 VALVE O-RINGS LMXP 303 VALVE MOUNT BOLTS
132-TR3	N/A N/A	N/A N/A	N/A N/A	N/A N/A	LMXP 303 3-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR3 132-TR4	N/A	N/A N/A	N/A N/A	N/A	LMXP 303 3-SECTION TIE RODS & NOTS (PACK OF 3 EACH) LMXP 303 4-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR5	N/A	N/A	N/A	N/A	LMXP 303 4-SECTION TIE RODS & NOTS (FACK OF 3 EACH)
132-TR5	N/A	N/A	N/A	N/A	LMXP 303 6-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR7	N/A	N/A	N/A	N/A	LMXP 303 7-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR8	N/A	N/A	N/A	N/A	LMXP 303 8-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR9	N/A	N/A	N/A	N/A	LMXP 303 9-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
		MARK OF LINCOLNIA			

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GRACO® IS A REGISTERED TRADEMARK OF GRACO®

TRABON® IS A REGISTERED TRADEMARK OF GRACO®

FARVAL® IS A REGISTERED TRADEMARK OF BIJUR DELIMON INTERNATIONAL

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While every effort is made to attain accurate information, it is ultimately the responsibility of the distributor and/or customer to verify the accuracy of the information.

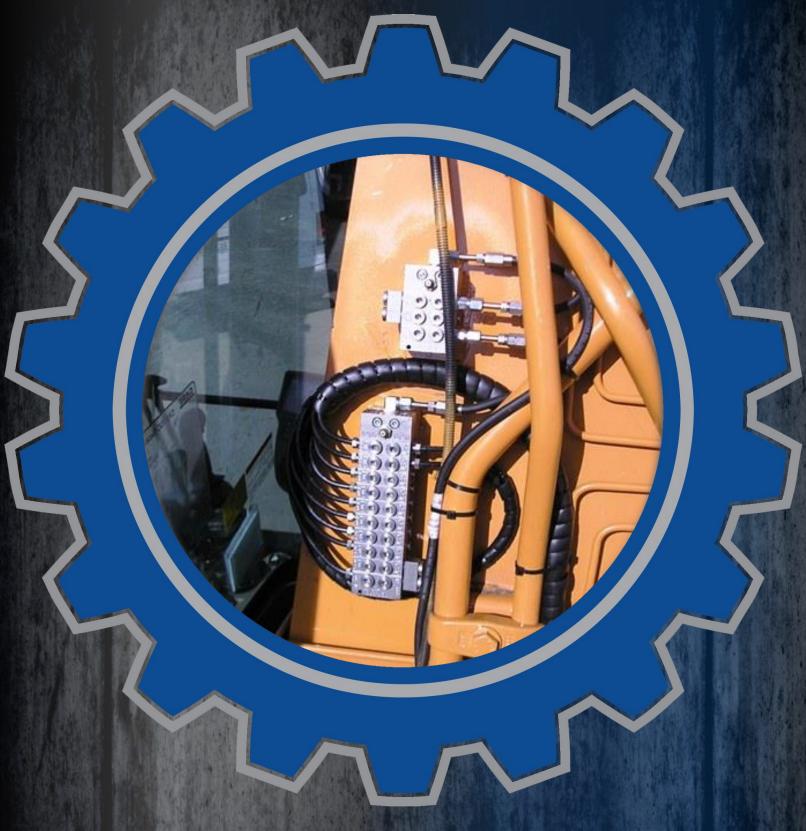
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	UBRICA	ALIONS	SCIENTIFI	CS, LLC ·	- CENTRAL	IZED LUBRICATION SYSTEMS
LUBRICAT	TION					
SCIENTII		LUBRIQUIP	GRACO	LINCOLN	FARVAL	PRODUCT DESCRIPTION
132-TR		N/A	N/A	N/A	N/A	LMXP 303 10-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
131-TRN		N/A	N/A	N/A	N/A	LMXP 3/8-24 TIE ROD HEX NUT
L52797 L52798		N/A	N/A	N/A	N/A	LMXP 303 CRO303PORT PLATE DEST
L52798		N/A N/A	N/A N/A	N/A N/A	N/A	LMXP 303 CRO303PORT PLATE RIGHT LMXP 303 CRO303PORT PLATE BOTH
132-A-00		N/A N/A	N/A N/A	N/A N/A	N/A N/A	LMXP 303 VALVE CLOSURE PLUG WITH O-RING
A-002-		N/A N/A	N/A N/A	N/A	N/A	LMXP 303 ALTERNATE OUTLET PLUG WITH O-RING
132-25S-		N/A	N/A	N/A	N/A	LMXP 303 25 SINGLE VALVE SECTION
132-25T-		N/A	N/A	N/A	N/A	LMXP 303 25 TWINVALVE SECTION
132-50S-		N/A	N/A	N/A	N/A	LMXP 303 50 SINGLE VALVE SECTION
132-50T-		N/A	N/A	N/A	N/A	LMXP 303 50 TWIN VALVE SECTION
132-75S-		N/A	N/A	N/A	N/A	LMXP 303 75 SINGLE VALVE SECTION
132-75T-		N/A	N/A	N/A	N/A	LMXP 303 75 TWIN VALVE SECTION
132-100S	5-303	N/A	N/A	N/A	N/A	LMXP 303 100 SINGLE VALVE SECTION
132-100T	Г-303	N/A	N/A	N/A	N/A	LMXP 303 100 TWIN VALVE SECTION
132-1255	5-303	N/A	N/A	N/A	N/A	LMXP 303 125 SINGLE VALVE SECTION
132-125T	T-303	N/A	N/A	N/A	N/A	LMXP 303 125 TWIN VALVE SECTION
132-150S	S-303	N/A	N/A	N/A	N/A	LMXP 303 150 SINGLE VALVE SECTION
132-150T	Г-303	N/A	N/A	N/A	N/A	LMXP 303 150 TWIN VALVE SECTION
132-50S-RH		N/A	N/A	N/A	N/A	LMXP 303 50 SINGLE VALVE SECTION-RHCIP
132-50T-RH		N/A	N/A	N/A	N/A	LMXP 303 50 TWIN VALVE SECTION-RHCIP
132-75S-RH		N/A	N/A	N/A	N/A	LMXP 303 75 SINGLE VALVE SECTION-RHCIP
132-75T-RH		N/A	N/A	N/A	N/A	LMXP 303 75 TWIN VALVE SECTION-RHCIP
132-100S-RH		N/A	N/A	N/A	N/A	LMXP 303 100 SINGLE VALVE SECTION-RHCIP
132-100T-RH		N/A	N/A	N/A	N/A	LMXP 303 100 TWIN VALVE SECTION-RHCIP
132-125S-RH		N/A	N/A	N/A	N/A	LMXP 303 125 SINGLE VALVE SECTION-RHCIP
132-125T-RH		N/A	N/A	N/A	N/A	LMXP 303 125 TWIN VALVE SECTION-RHCIP
132-150S-RH		N/A	N/A	N/A	N/A	LMXP 303 150 SINGLE VALVE SECTION-RHCIP
132-150T-RH		N/A	N/A	N/A	N/A	LMXP 303 150 TWIN VALVE SECTION
132-INL-U		N/A	N/A	N/A	N/A	LMXP 316 INLET 3/8-18 NPSF
132-INL SA		N/A	N/A	N/A	N/A	LMXP 316 INLET 3/4-16 SAE
132-BP-BSF		N/A	N/A	N/A	N/A	LMXP 316 INLET 3/8 BSPP 3.00
132-BP-NP:		N/A	N/A	N/A	N/A	LMXP INTERMEDIATE 1/4" NPSF
132-BP-SA		N/A	N/A	N/A	N/A	LMXP INTERMEDIATE 9/16 SAE
132-BP-BSF		N/A	N/A	N/A	N/A	LMXP INTERMEDIATE 1/4 BSPP
132-END		N/A	N/A	N/A	N/A	LMXP 316 END
132-VO		N/A	N/A	N/A	N/A	LMXP 316 VALVE O-RINGS
LMXP-VMI		N/A	N/A	N/A	N/A	LMXP 316 VALVE MOUNT BOLTS LMXP 316 3-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR3- 132-TR4-		N/A N/A	N/A N/A	N/A N/A	N/A N/A	LMXP 316 3-SECTION TIE RODS & NOTS (PACK OF 3 EACH) LMXP 316 4-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR4-		N/A N/A	N/A N/A	N/A N/A	N/A N/A	LMXP 316 4-SECTION TIE RODS & NOTS (PACK OF 3 EACH) LMXP 316 5-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR5-		N/A	N/A	N/A	N/A	LMXP 316 6-SECTION TIE RODS & NOTS (FACK OF 3 EACH)
132-TRO-		N/A	N/A	N/A	N/A	LMXP 316 0-SECTION TIE RODS & NOTS (PACK OF 3 EACH)
132-TR8-		N/A	N/A	N/A	N/A	LMXP 316 8-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR9-		N/A	N/A	N/A	N/A	LMXP 316 9-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TR10		N/A	N/A	N/A	N/A	LMXP 316 10-SECTION TIE RODS & NUTS (PACK OF 3 EACH)
132-TRN-		N/A	N/A	N/A	N/A	LMXP 3/8-24 TIE ROD HEX NUT
L527970-		N/A	N/A	N/A	N/A	LMXP SS CROSSPORT PLATE LEFT
L527980-		N/A	N/A	N/A	N/A	LMXP SS CROSSPORT PLATE RIGHT
L527990-		N/A	N/A	N/A	N/A	LMXP SS CROSSPORT PLATE BOTH
132-BYPAS	SS-316	N/A	N/A	N/A	N/A	LMXP 316 BYPASS SECTION
132-A-00	01-S	N/A	N/A	N/A	N/A	LMXP 316 VALVE CLOSURE PLUG WITH O-RING
A-002-	!-S	N/A	N/A	N/A	N/A	LMXP 316 ALTERNATE OUTLET PLUG WITH O-RING
132-255-		N/A	N/A	N/A	N/A	LMXP 316 25 SINGLE VALVE SECTION
132-25T-		N/A	N/A	N/A	N/A	LMXP 316 25 TWINVALVE SECTION
132-50S-		N/A	N/A	N/A	N/A	LMXP 316 50 SINGLE VALVE SECTION
132-50T-		N/A	N/A	N/A	N/A	LMXP 316 50 TWIN VALVE SECTION
132-75S-		N/A	N/A	N/A	N/A	LMXP 316 75 SINGLE VALVE SECTION
132-75T-		N/A	N/A	N/A	N/A	LMXP 316 75 TWIN VALVE SECTION
132-100S		N/A	N/A	N/A	N/A	LMXP 316 100 SINGLE VALVE SECTION
132-100T		N/A	N/A	N/A	N/A	LMXP 316 100 TWIN VALVE SECTION
132-125S		N/A	N/A	N/A	N/A	LMXP 316 125 SINGLE VALVE SECTION
132-125T		N/A	N/A	N/A	N/A	LMXP 316 125 TWIN VALVE SECTION
132-150S		N/A	N/A	N/A	N/A	LMXP 316 150 SINGLE VALVE SECTION
132-150T		N/A	N/A	N/A	N/A	LMXP 316 150 TWIN VALVE SECTION
132-50S-RH		N/A	N/A	N/A	N/A	LMXP 316 50 SINGLE VALVE SECTION-RHCIP
132-50T-RH		N/A	N/A	N/A	N/A	LMXP 316 50 TWIN VALVE SECTION-RHCIP
132-75S-RH		N/A	N/A	N/A	N/A	LMXP 316 75 SINGLE VALVE SECTION-RHCIP
132-75T-RH		N/A	N/A	N/A	N/A	LMXP 316 75 TWIN VALVE SECTION-RHCIP
132-100S-RH		N/A	N/A	N/A	N/A	LMXP 316 100 SINGLE VALVE SECTION-RHCIP
132-100T-RH		N/A	N/A	N/A	N/A	LMXP 316 100 TWIN VALVE SECTION-RHCIP
132-125S-RH		N/A	N/A	N/A	N/A	LMXP 316 125 SINGLE VALVE SECTION-RHCIP
132-125T-RH		N/A	N/A	N/A	N/A	LMXP 316 125 TWIN VALVE SECTION-RHCIP
132-150S-RH		N/A	N/A	N/A	N/A	LMXP 316 150 SINGLE VALVE SECTION-RHCIP
132-150T-RH	7CIY-316	N/A	N/A	N/A	N/A	LMXP 316 150 TWIN VALVE SECTION

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LUBRICATION SCIENTIFICS, LLC

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



ORFL SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS

VERSATILE MINIATARE VALVES—CRITICAL MONITORING—ACCESSORIES









ORFL SERIES PROGRESSIVE DIVIDER VALVES

BENEFITS & FEATURES PRODUCT DESCRIPTION COMPACT, LIGHT WEIGHT DESIGN CARBON & 303, 316 STAINLESS STEEL DIVIDER VALVES INDUSTRY EXCLUSIVE SIDE & FRONT FACING **ALTERNATE OUTPUT PORTS** SMALL FOOT PRINT, STANDARD PRESSURE INTERNAL CHECK VALVES (316 SS BALLS & SERIES PROGRESSIVE DESIGN WITH FEEDBACK FOR SPRINGS) MONITORING SYSTEM PERFORMANCE INTERNAL CHECK VALVES INCLUDED KEEPING LINES CARBON STEEL, 303 & 316 STAINLESS STEEL **FULL OF LUBRICANT CONSTRUCTION AVAILABLE DESIGNED FOR OIL AND GREASE SYSTEMS** FOR STANDARD PRESSURE OIL OR GREASE **APPLICATIONS** ALTERNATE OUTPUTS ACCEPTS STANDARD PERFORMANCE INDICATORS AND FITTINGS 1-24 LUBE POINTS PER VALVE ASSEMBLY USE FOR OFFROAD, INDUSTRIAL, MARINE & FOOD WIDE RANGE OF PERFORMANCE ACCESSORIES PROCESSING MACHINERY AVAILABLE FOR ANY SYSTEM REQUIREMENT

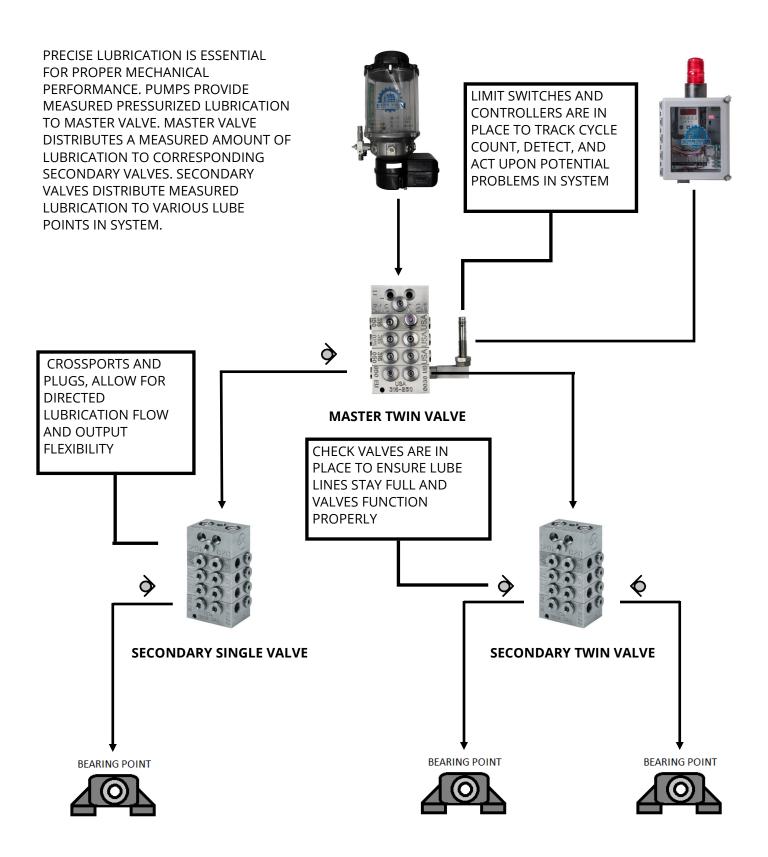
READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTION ILLUSTRATION & SPECIFICATIONS



FUNCTION ILLUSTRATION & SPECIFICATIONS

Major Benefits when utilizing ORFL Fill Fittings

Fill Fittings for use in ORFL valve Alternate Inlet & Outlet Port

- **FILL FITTINGS CONTAIN NO INTERNAL COMPONENTS**—No damage can be done to valve or downstream machinery from high pressure surge from a grease gun. High surges can blow the guts out of a normal ZERK Fitting
- **FILL FITTINGS ARE ZERO LEAK**—Uses 1/8-27 SAE type O-ring connection. This connection cannot damage port threads
- ORFL VALVES HAVE INTERNAL CHECK VALVES—Grease Gun Lubrication WILL NOT damage valve or lubrication system.

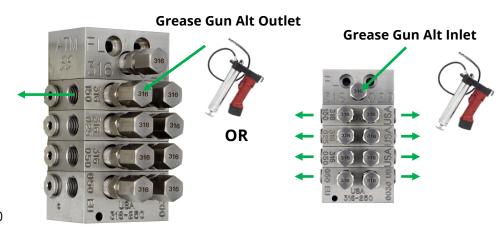
Adding fill fittings to any valve ALTERNATE INLET provides maximum design flexibility

- **MANUAL LUBRICATION SYSTEMS**—With fill fittings installed in ALTERNATE INLET, ENTIRE valve can be cycled with a grease gun. Add an inlet fill screen to prevent contamination during manual lubrication.
- **SYSTEM PUMP FAILURE**—If system pump fails, installing ORFL FILL FITTING in the master valve ALTERNATE INLET WILL ALLOW THE ENTIRE LUBE SYSTEM to be cycled from ONE point. Add an inlet fill screen to prevent contamination during manual lubrication.

INSTALLING FILL FITTINGS IN ALTERNATE OUTLETS REDUCES SYSTEM START UP TIME, PROVIDES TROUBLE-SHOOTING OPTIONS, & OFFERS EFFECTIVE CONTINGENCY OPTIONS WHERE SYSTEM MAINTENANCE ISSUES EXIST

- **PREFILLING LUBRICATION LINES**—All lubrication lines from valve to lube point can be rapidly pre-filled by installing ORFL FILL FITTING into ALTERNATE OUTLET PORT for the line being prefilled.
- **PURGING LUBRICATION LINES**—In the event that there is a lubricant specification change or incompatible lubricants have been mixed in system, all lines can be easily purged by installing ORFL FILL FITTINGS in all ORFL VALVES, including both Master and secondary valves. Purge from master out to secondary valves and then to individual lube points.
- **SYSTEM TROUBLE SHOOTING**—Starting from lube point feed line and working back to master valve to secondary lines, use a grease gun with a gauge to find high pressure conditions in lubrication system.

INLET FILL SCREENS SHOULD NOT BE USED IN ALTERNATIVE OUTLET PORTS



Ordering information on Page 10

LUBRICATION SCIENTIFICS OFFERS THE MOST ADAPTABLE MINIATURE DIVIDER VALVE CURRENTLY IN EXISTENCE. THE ONLY DIVIDER VALVE TO PROVIDE SIDE AND FRONT FACING OUTLETS; IDEAL FOR ACCESSIBILITY IN COMPACT, LIMITED SPACE APPLICATIONS.

THE ORFL SERIES PROUDLY DISPLAYS VERSATILITY, AND SYSTEM DESIGN FLEXIBILITY BY OFFERING COMPATIBLE ACCESSORIES AND FEATURES SUCH AS RESET INDICATORS, BLOWOUT FITTINGS, SECONDARY INLETS, LIMIT SWITCHES, AND ALTERNATIVE FRONT OUTPUTS

ORFL INLET SECTION

TOP & FRONT FACING INLET PORTS ONE INLET SECTION REQUIRED PER VALVE ASSEMBLY

STANDARD PACK: 5 EACH						
INLET CONNECTION	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL			
M10 X 1.0	1200-020EU	1202-020EU	FL316-020EU			
1/8-27 NPSF	1200-021US	1202-021US	FL316-021US			





ORFL MIDDLE VALVE SECTION

SIDE & FRONT OUTLET PORTS
VITON O-RING SEALS
SHIPPED AS TWIN OUTLET
EASILY CONVERTED TO SINGLE OUTPUT (SEE PAGE 19)
INTERNALLY CHECKED—EITHER US OR METRIC OUTLETS
STANDARD PRESSURE—3000 PSI
MINIMUM OF TWO MIDDLE SECTIONS REQUIRED PER ASSEMBLY

STANDARD PACK: 5 EACH					
OUTLET	SINGLE OUTPUT	TWIN OUTPUT	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL
M10 X 1.0	.050 CC .003 CU	.025 CC .0015 CU	1200-025EU	1202-025EU	FL316-025EU
1/8 NPSF	.050 CC .003 CU	.025 CC .0015 CU	1200-025US	1202-025US	FL316-025US
M10 X 1.0	.100 CC .006 CU	.050 CC .003 CU	1200-050EU	1202-050EU	FL316-050EU
1/8 NPSF	.100 CC .006 CU	.050 CC .003 CU	1200-050US	1202-050US	FL316-050US
M10 X 1.0	.150 CC .009 CU	.075 CC .0045 CU	1200-075EU	1202-075EU	FL316-075EU
1/8 NPSF	.150 CC .009 CU	.075 CC .0045 CU	1200-075US	1202-075US	FL316-075US
M10 X 1.0	.200 CC .012 CU	.100 CC .006 CU	1200-100EU	1202-100EU	FL316-100EU
1/8 NPSF	.200 CC .012 CU	.100 CC .006 CU	1200-100US	1202-100US	FL316-100US
M10 X 1.0	.250 CC .015 CU	.125 CC .0075 CU	1200-125EU	1202-125EU	FL316-125EU
1/8 NPSF	.250 CC .015 CU	.125 CC .0075 CU	1200-125US	1202-125US	FL316-125US
M10 X 1.0	.300 CC .018 CU	.150 CC .009 CU	1200-150EU	1202-150EU	FL316-150EU
1/8 NPSF	.300 CC .018 CU	.150 CC .009 CU	1200-150US	1202-150US	FL316-150US
M10 X 1.0	.350 CC .021 CU	.175 CC .0105 CU	1200-175EU	1202-175EU	FL316-175EU
1/8 NPSF	.350 CC .021 CU	.175 CC .0105 CU	1200-175US	1202-175US	FL316-175US

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ORFL WORKING END SECTIONS

SIDE AND FRONT FACING OUTLET PORTS
VITON O-RING SEALS
SHIPPED AT TWIN OUTLET—EASILY CONVERTED TO SINGLE OUTPUT (SEE PAGE 15)
INTERNALLY CHECKED—316 STAINLESS STEEL BALLS AND SPRINGS
ONE END REQUIRED PER VALVE ASSEMBLY

STANDARD PACK: 5 EACH WORKING END VALVES					
OUTLET	SINGLE OUTPUT	TWIN OUTPUT	CARBON STEEL	303 STAINLESS	316 STAINLESS STEEL
M10 X 1.0	.050 CC .003 CU	.025 CC .0015 CU	1200-225EU	1202-225EU	FL316-225EU
1/8 NPSF	.050 CC .003 CU	.025 CC .0015 CU	1200-225US	1202-225US	FL316-225US
M10 X 1.0	.100 CC .006 CU	.050 CC .003 CU	1200-250EU	1202-250EU	FL316-250EU
1/8 NPSF	.100 CC .006 CU	.050 CC .003 CU	1200-250US	1202-250US	FL316-250US
M10 X 1.0	.150 CC .009 CU	.075 CC .0045 CU	1200-275EU	1202-275EU	FL316-275EU
1/8 NPSF	.150 CC .009 CU	.075 CC .0045 CU	1200-275US	1202-275US	FL316-275US
M10 X 1.0	.200 CC .012 CU	.100 CC .006 CU	1200-300EU	1202-300EU	FL316-300EU
1/8 NPSF	.200 CC .012 CU	.100 CC .006 CU	1200-300US	1202-300US	FL316-300US
M10 X 1.0	.250 CC .015 CU	.125 CC .0075 CU	1200-325EU	1202-325EU	FL316-325EU
1/8 NPSF	.250 CC .015 CU	.125 CC .0075 CU	1200-325US	1202-325US	FL316-325US
M10 X 1.0	.300 CC .018 CU	.150 CC .009 CU	1200-350EU	1202-350EU	FL316-350EU
1/8 NPSF	.300 CC .018 CU	.150 CC .009 CU	1200-350US	1202-350US	FL316-350US
M10 X 1.0	.350 CC .021 CU	.175 CC .0105 CU	1200-375EU	1202-375EU	FL316-375EU
1/8 NPSF	.350 CC .021 CU	.175 CC .0105 CU	1200-375US	1202-375US	FL316-375US

ORDERING INFORMATION & PART NUMBERS ORFL WORKING END SECTIONS W/ CIP

FOR PLC/CONTROLLER FEEDBACK SIGNAL, USE WITH ORFL PROXIMITY KITS BELOW

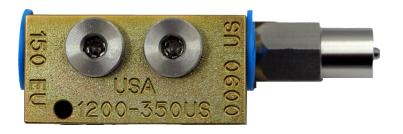


SIDE AND FRONT FACING OUTLET PORTS VITON O-RING SEALS SHIPPED AT TWIN OUTLET—EASILY CONVERTED TO SINGLE OUTPUT INTERNALLY CHECKED –316 STAINLESS STEEL BALLS AND SPRINGS

STANDARD PACK: 2 EACH WORKING END VALVES W/ RIGHT HAND CIP						
OUTLET	SINGLE OUTPUT	TWIN OUTPUT	CARBON STEEL	303 STAINLESS	316 STAINLESS STEEL	
M10 X 1.0	.300 CC .018 CU	.150 CC .009 CU	1200-350EU-RHCIP	1202-350EU-RHCIP	FL316-350EU-RHCIP	
1/8 NPSF	.300 CC .018 CU	.150 CC .009 CU	1200-350US-RHCIP	1202-350US-RHCIP	FL316-350US-RHCIP	
M10 X 1.0	.350 CC .021 CU	.175 CC .0105 CU	1200-375EU-RHCIP	1202-375EU-RHCIP	FL316-375EU-RHCIP	
1/8 NPSF	.350 CC .021 CU	.175 CC .0105 CU	1200-375US-RHCIP	1202-375US-RHCIP	FL316-375US-RHCIP	

FOR **STANDARD SIZED** <u>CYCLE INDICATOR PIN</u> ADD SUFFIX: -LSW

EXAMPLE: FL316-350US-RHCIP-LSW



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ORDERING INFORMATION & PART NUMBERS ORFL WORKING END SECTIONS W/ CIP

FOR PLC/CONTROLLER FEEDBACK SIGNAL, USE WITH ORFL PROXIMITY KITS BELOW

ORFL PROXIMITY SWITCH KITS

KIT INCLUDES ADAPTER & PROXIMITY SWITCH CABLE MUST BE ORDERED SEPARATELY

STANDARD PACK: 1 EACH					
DESCRIPTION	303 STAINLESS STEEL	316 STAINLESS STEEL			
PROXIMITY KIT, PNP TYPE	1202-501	FL316-501			
PROXIMITY KIT, NPN TYPE	1202-502	FL316-502			

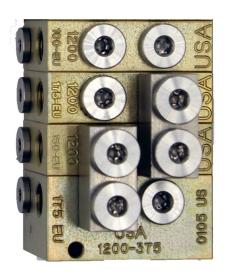


PROXIMITY SWITCH CABLES

STANDARD PACK: 1 EACH						
DESCRIPTION	LENGTH	CONNECTOR TYPE	PART NUMBER			
3 WIRE PICO M8 CORDSET, 24 AWG, NICKEL PLATED BRASS COUPLING NUT	16.4 FEET 5 METERS	RIGHT ANGLE	PSC-16			
3 WIRE PICO M8 CORDSET,24 AWG, NICKEL PLATED BRASS COUPLING NUT	32.8 FEET 10 METERS	RIGHT ANGLE	PSC-32			

CROSSPORT KITS

STANDARD PACK: 2					
DESCRIPTION	303 STAINLESS STEEL	316 STAINLESS STEEL			
FRONT CROSSPORT KIT (2 VALVES, 1 OUTPUT)	1202-413	FL316-413			
FRONT CROSSPORT KIT (3 VALVES, 1 OUTPUT)	1202-414	FL316-414			
FRONT CROSSPORT KIT (4 VALVES, 1 OUTPUT)	1202-415	FL316-415			
SIDE CROSSPORT KIT FOR EU VALVES (M10) (2 VALVES, 1 OUTPUT)	1202-402EU	FL316-402EU			
SIDE CROSSPORT KIT FOR US VALVES (1/8-27) (2 VALVES, 1 OUTPUT)	1202-402US	FL316-402US			



TIE ROD KITS—NUTS INCLUDED TWO TIE RODS PER KIT

ONE KIT PER VALVE ASSEMBLY REQUIRED



STANDARD PACK: 1 KIT		
VALVE ASSEMBLY SECTIONS	303 STAINLESS STEEL	316 STAINLESS STEEL
3 SECTIONS	1202-403	FL316-403
4 SECTIONS	1202-404	FL316-404
5 SECTIONS	1202-405	FL316-405
6 SECTIONS	1202-406	FL316-406
7 SECTIONS	1202-407	FL316-407
8 SECTIONS	1202-408	FL316-408
9 SECTIONS	1202-409	FL316-409
10 SECTIONS	1202-410	FL316-410
11 SECTIONS	1202-411	FL316-411
12 SECTIONS	1202-412	FL316-412

ORFL FILL FITTINGS

FILL FITTING FOR ABILITY TO MANUALLY LUBRICATE
BLOCKS IN CASE OF A PUMP FAILURE
CONTAINS NO BALL OR SPRINGS
O-RINGS PROTECT THREADS
WILL NOT DAMAGE VALVE OR DOWNSTREAM SYSTEM

AVAILABLE IN 303 & 316 STAINLESS STEEL







STANDARD PACK: 1					
DESCRIPTION	303 STAINLESS STEEL	316 STAINLESS STEEL			
FILL FITTING—O-RING SEAL	L90471-ORS-303	L90471-ORS-316			

STANDARD PACK: 1					
DESCRIPTION	MESH	PART NUMBER			
316 STAINLESS STEEL INLET FILL SCREEN	100				

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OUTLET FITTINGS, CLOSURE PLUGS & O-RING KITS

STANDARD PACK: 10 EACH

PART DESCRIPTION	FITTING STYLE	303 STAINLESS STEEL	316 STAINLESS STEEL	BRASS	PICTURES
M10 X 1.0 CONNECTOR	FITTING/FERRULE KIT FOR 4MM TUBING	1202-401-4MK	FL316-401-4MK	NI/A	
M10 X 1.0 CONNECTOR	FITTING/FERRULE FOR 6MM TUBING	1202-401-6MK	FL316-401-6MK	- N/A	
M10 X 1.0 PLUG	OUTLET PLUG	1202-400	FL316-400	N/A	
ORFL A/O PLUG W/ O- RING	ALTERNATE OUTPUT PLUG	A-002-S	A-002-S316	N/A	
ORFL PISTON BORE PLUG	PISTON PLUG	1202-429	FL316-429	N/A	8
INTERNAL CHECK KIT	CAP O-RING BALL SPRING	1202-430	FL316-430	N/A	•
SINGLED ALTERNATE OUTLET CLOSURE PLUG	PLUG WITH O-RING	SA-002-S	N/A	N/A	N/A
O-RING KIT	ALL INLET SECTIONS	1202-426	N/A	N/A	N/A
O-RING KIT	O-RING KIT - ALL VALVE SECTIONS	1202-427	N/A	N/A	N/A
TUBE FITTING	ALL US OUTLETS, 3/16 TUBE	1202-450	FL316-450	N/A	N/A
TUBE FITTING	ALL US OUTLETS, 1/4 TUBE	1202-451	FL316-451	N/A	N/A
MANUAL FILL FITTING	ALL INLET/VALVE FRONT PORTS	L90471-ORS-303	L90471-ORS-316	N/A	N/A
TUBE NUT	SS 6MM	1202-401	N/A	N/A	N/A
TUBE OUTLET FITTING KIT	1/4"OD TUBE NUT & FERRULE INCLUDED	1202-401-USK	FL316-401-USK	N/A	N/A
TUBE FITTING 1/4" TUBE X 1/8" NPT BRASS	1/4" TUBE X 1/8" NPT	LTF-4-2N	N/A	LTF-4-2N-BRASS	N/A

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THE ONLY MINIATURE DIVIDER VALVE IN EXISTENCE THAT ACCEPTS PERFORMANCE INDICATORS

PERFORMANCE RESET INDICATORS W/ MEMORY

STANDARD PACK: 5 EACH	1/8 NPSF O-RING CONNECTION		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS	
1,000 PSI	303-P1000	316-P1000	
69 BAR			
1,500 PSI	303-P1500	316-P1500	
103 BAR			
2,000 PSI	303-P2000	316-P2000	
138 BAR			
2,500 PSI	303-P2500	316-P2500	
172 BAR			
3,000 PSI	303-P3000	316-P3000	
207 BAR			
3,500 PSI	303-P3500	316-P3500	
241 BAR			
5,000 PSI	303-P5000	316-P5000	
345 BAR			



NOTE: FOR MORE INFORMATION REGARDING PERFORMANCE INDICATORS, REFER TO BULLETIN LSM002



BLOWOUT FITTINGS

STANDARD PACK: 5 EACH	1/8" O-RING SEAL OR 1/8" NPTF THREADS	
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS
LOW PRESSURE 1/8" NPSF	BOF-LP-303-NPTF	BOF-LP-316-NPTF
PLAIN NUT W/ 1/4" APERTURE	BOF-LP-303-ORS	BOF-LP-316-ORS
LOW PRESSURE 1/8" NPSF	BOF-LP-303R-NPTF	BOF-LP-316R-NPTF
SPUD NUT W/ 1/4" APERTURE	BOF-LP-303R-ORS	BOF-LP-316R-ORS
HIGH PRESSURE 1/8" NPSF	BOF-HP-303-NPTF	BOF-HP-316-NPTF
PLAIN NUT W/ 1/8" APERTURE	BOF-HP-303-ORS	BOF-HP-316-ORS
HIGH PRESSURE 1/8" NPSF	BOF-HP-303R-NPTF	BOF-HP-316R-NPTF
SPUD NUT W/ 1/8" APERTURE	BOF-HP-303R-ORS	BOF-HP-316R-ORS

NOTE: RUPTURE DISK NOT INCLUDED—SEE PAGE 11

ORDERING INFORMATION & PART NUMBERS ADDITIONAL ACCESSORIES FOR VERIFYING LUBRICATION SYSTEM FUNCTION

ATMOSPHERIC RESET INDICATORS

PART NUMBER	DESCRIPTION
L5081000-NPTF	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPTF
L5081000-ORS	ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-NPTF	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-ORS	ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-NPTF	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-ORS	ATMOSPHERIC RESET INDICATOR, 2000 PSI, 1/8 ORS
L5082500-NPTF	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-ORS	ATMOSPHERIC RESET INDICATOR, 2500 PSI, 1/8 ORS
L5083000-NPTF	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-ORS	ATMOSPHERIC RESET INDICATOR, 3000 PSI, 1/8 ORS
L5081000-316-NPTF	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 NPT
L5081000-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1000 PSI, 1/8 ORS
L5081500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 1500 PSI, 1/8 NPTF
L5081500-316-ORS	316 ATMOSPHERIC RESET INDICATOR, 1500 PSI, 1/8 ORS
L5082000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 NPTF
L5082000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2000 PSI, 1/8 ORS
L5082500-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 NPTF
L5082500-316-ORS	316 ATMOSPHERIC RST INDICATOR, 2500 PSI, 1/8 ORS
L5083000-316-NPTF	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 NPTF
L5083000-316-ORS	316 ATMOSPHERIC RST INDICATOR, 3000 PSI, 1/8 ORS

ADDITIONAL ACCESSORIES FOR VERIFYING LUBRICATION SYSTEM FUNCTION

OUTLET CHECK VALVES

STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION PART NUMBER					
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
M10 X 1.0	M10 X 1.0	35	1202-425EU	FL316-425EU	TUBE FITTING
1/8" NPTF (M)	1/8" NPSF (F)	35	1202-425US	FL316-425US	TUBE FITTING



3/8" DIAMETER RUPTURE DISKS

STANDARD PACK: 25 EACH			
DISC COLOR	LOW PRESSURE BURST (PSI)	HIGH PRESSURE BURST (PSI)	PART NUMBER
	(1/4" APERTURE FITTING)	(1/8" APERTURE FITTING)	
BLACK	900	N/R	A509-276-000
GREEN	1,175	N/R	A509-277-000
YELLOW	1,450	3,700	A509-292-000
RED	1,750	4,600	A509-279-000
ORANGE	2,050	5,500	A509-280-000
ALUMINUM	2,350	N/R	A509-281-000
PINK	2,650	6,400	A509-282-000
BLUE	2,950	7,300	A509-283-000
PURPLE	3,250	8,200	A509-284-000

NOTE: ALL DISKS HAVE A RUPTURE TOLERANCE OF +500 PSI

FOR MORE INFORMATION REGARDING RESET INDICATORS, REFER TO BULLETIN LSM002

ADDITIONAL ACCESSORIES FOR VERIFYING LUBRICATION SYSTEM FUNCTION

CONTAMINATION IS THE ENEMY OF RELIABILITY THE DIRT TRAP IS THE ANSWER







DIRT TRAP FILTER ASSEMBLY

	STANDARD PACK: 1 EACH				
	FILTER RATING	PLATED CARBON STEEL 7,500 PSI	316 STAINLESS STEEL	AL2024 BLUE ANODIZED ALUMINUM 6,000 PSI / 414 BAR	
	5 MICRON	DTFA-005-O	DTFA-005-O-316	MDFA-005-O	
1	10 MICRON	DTFA-010-O	DTFA-010-O-316	MDFA-010-O	
	25 MICRON	DTFA-025-O	DTFA-025-O-316	MDFA-025-O	
	150 MICRON 100 MESH	DTFA-100-G	DTFA-100-G-316	MDFA-100-G	
	420 MICRON 40 MESH	DTFA-040-G	DTFA-040-G-316	MDFA-040-G	

DIRT TRAP REPLACEMENT ELEMENT

STANDARD PACK: 1 EACH		
FILTER RATING	PART NUMBER	
5 MICRON	DT-EL-002-005MIC	
10 MICRON	DT-EL-002-010MIC	
25 MICRON	DT-EL-002-025MIC	
150 MICRON	DT-FL-002-100M	
100 MESH	D1-EL-002-100W	
420 MICRON	DT 51, 000, 4014	
40 MESH	DT-EL-002-40M	

NOTE: REPLACEMENT ELEMENTS ARE COMPATIBLE WITH BOTH THE CARBON STEEL AND 2024 ALUMINUM MODELS.



ANCHOR BLOCKS

316 STAINLESS
STEEL
L509189-316
L509188-316
L509190-316
L509180-316
L509185-316
L509170-316
L509175-316

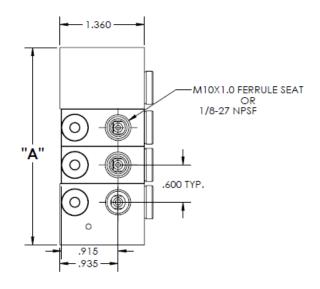
NOTE: FOR MORE INFORMATION REGARDING ANCHOR BLOCKS, REFER TO BULLETIN LSM008

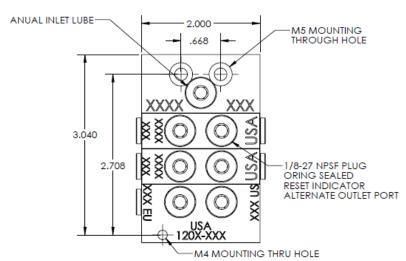


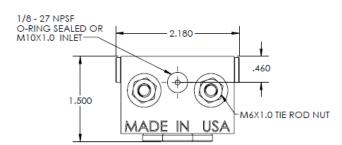
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DIMENSIONS & MOUNTING INFORMATION

DIMENSIONS ARE IN INCHES







TORQUE		
TIE ROD	5-8 FT. LBS	
INDICATOR PORT	8-9 FT. LBS	
PISTON ENCLOSURE PLUG	10-12 FT. LBS	

SPECIFICATIONS

CARBON STEEL, 303, 316 STAINLESS STANDARD PRESSURE: MAX 3000 PSI UP TO 11 VALVES + 1 WORKING END 316 SS INTERNAL CHECK HARDWARE USE WITH OIL OR GREASE APPLICATIONS

DIMENSIONAL FOOTPRINT			
NUMBER OF SEC.	"A" OAL LENGTH - IN.	"A" OAL LENGTH - MM	
3	3.160"	80.264mm	
4	3.760"	95.504mm	
5	4.360"	110.744mm	
6	4.960"	125.984mm	
7	5.560"	141.224mm	
8	6.160"	156.464mm	
9	6.760"	171.704mm	
10	7.360"	186.944mm	
11	7.960"	202.184mm	
12	8.560"	217.424mm	

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ORFL SINGLING INSTRUCTIONS

THE ORFL DIVIDER VALVES COME FACTORY SET AS TWIN VALVES. IF SINGLING A VALVE IS REQUIRED, REFER TO THE FOLLOWING INSTRUCTIONS...

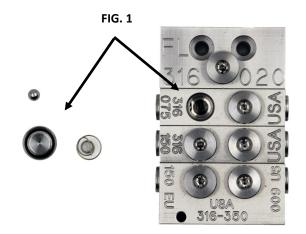
BEFORE STARTING, THE FOLLOWING TOOLS ARE REQUIRED: 5/64" & 3/16" ALLEN WRENCH AND NEEDLE -NOSE PLIERS.

TO SINGLE A VALVE BLOCK, SET SCREW MUST BE REMOVED WITHIN VALVE BLOCK BODY.

TO ACCESS INTERNAL CHECK HARDWARE. USE 3/16" ALLEN. FIG. 1

STEP 2: USING NEEDLE-NOSE PLIERS, REMOVE SPRING AND CHECK BALL. **FIG. 1**

STEP 3: TURN VALVE ON ITS SIDE, LOOK THROUGH OUTLET PORT TO NOTICE A BLACK SET SCREW IN CENTER OF PORT. REMOVE SET SCREW USING 5/64" ALLEN. **FIG. 2**

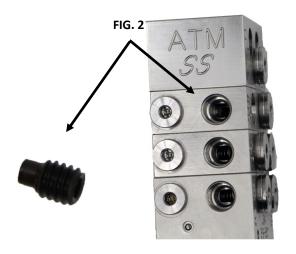


REMOVING THIS SET SCREW SINGLES THE VALVE BLOCK

STEP 4: REASSEMBLE CHECK HARDWARE BY FIRST DROPPING CHECK BALL BACK INTO ALTERNATE OUTLET PORT, FOLLOWED BY SPRING. USING NEEDLE-NOSE PLIERS INSERT SPRING BELOW THREAD LEVEL.

STEP 5: REPLACE ALTERNATE OUTPUT PLUG USING A 3/16" ALLEN WRENCH.

STEP 6: BE SURE APPROPRIATE OUTLET PLUGS ARE INSTALLED FOR DESIRED OUTPUT



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ORFL FEEDER PART NUMBER ORDERING GUIDE

ORFL-XXX-XXX-XXXXXX

ORFL-XXX-XXX-XXXXXX		
MATERIAL	P/N	
CARBON STEEL	LEAVE BLANK	
303 STAINLESS	303	
316 STAINLESS	316	

ORFL-XXX-XXX-XXXXXX		
PORT OPTIONS	P/N	
NPSF PORTS 1/8-27	NPT	
METRIC PORTS M10 X 1.0	MET	

ORFL-XXX-XXX-XXX-XXXXX		
VALVE SIZE	P/N	
.0015 CU. IN. .025 CC	1	
.003 CU. IN. .050 CC	3	
.0045 CU. IN. .075 CC	4	
.006 CU. IN. .100 CC	6	
.0075 CU. IN. 0.125 CC	7	
.009 CU. IN. .150 CC	9	
.015 CU. IN. .175 CC	10	

ORFL-XXX-XXX-XXXXX		
INSTALLED ACCESSORIES (OMIT IF NOT REQUIRED)	P/N	
NO INTERNAL CHECK VALVES	Х	
EXTERNAL CHECK VALVES	С	
PERFORMANCE INDICATORS	Р	
PERFORMANCE INDICATORS & CHECK VALVES	В	

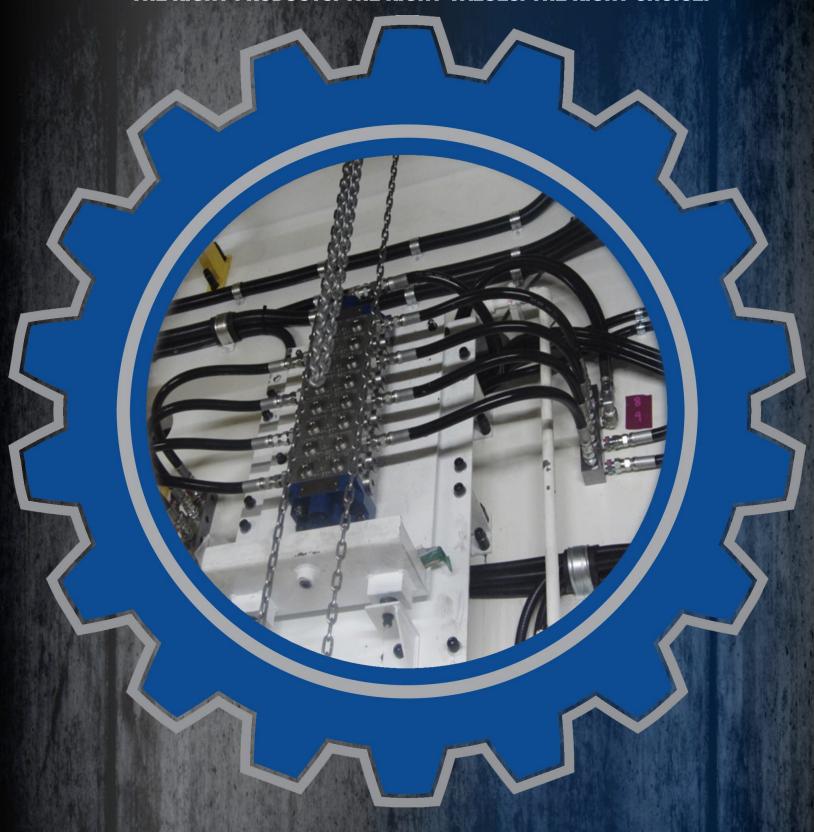
ORFL-XXX-XXX-XXXX			
NUMBER OF SECTIONS P/N			
THREE	3		
FOUR	4		
FIVE	5		
SIX	6		
SEVEN	7		
EIGHT	8		
NINE	9		
TEN	10		
ELEVEN	11		
TWELVE	12		

ORFL-XXX-XXX-XXXXXXX		
TYPE OF SECTION	P/N	
TWIN	Т	
SINGLE, RH OUTLET	S	
SINGLE, LH OUTLET	L	
TWIN, CIP RIGHT	В	
SINGLE, CIP RIGHT, RH OUTLET	С	
SINGLE, CIP RIGHT, LH OUTLET	D	
TWIN, CIP LEFT	Н	
SINGLE, CIP LEFT, RH OUTLET	J	
SINGLE, CIP LEFT, LH OUTLET	K	

ORFL-XXX-XXX-XXXXXXX		
CROSSPORT OPTION	P/N	
RIGHT SIDE	CR	
LEFT SIDE	CL	
BOTH SIDES	СВ	

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



LGO SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS

HIGH OUTPUT VALVES—CRITICAL MONITORING—ACCESSORIES



LGO SERIES PROGRESSIVE DIVIDER VALVES



PRODUCT DESCRIPTION

LARGE FOOTPRINT, HIGH OUTPUT, SERIES PROGRESSIVE DIVIDER VALVE FOR HEAVY INDUSTRY APPLICATIONS.

DESIGNED FOR LARGE CIRCULATING OIL SYSTEMS FOUND IN PAPER AND RUBBER MILLS

AVAILABLE IN 316 STAINLESS STEEL

HIGH OUTPUT RANGES FROM .15 CUBIC INCHES TO 1.2 CUBIC INCHES

STANDARD PRESSURE 3000 PSI

ALL OUTLETS ARE 7/8-14 SAE AND SUPPLIED WITH STAINLESS STEEL CAPS

BENEFITS & FEATURES

CARBON STEEL AND CORROSIVE RESISTANT
316 STAINLESS STEEL VALVE
CONSTRUCTION

HIGH OUTPUT/ STANDARD PRESSURE OIL

AND GREASE APPLICATIONS

DESIGNED WITH FEEDBACK FOR MONITORING SYSTEM PERFORMANCE

FROM 1-22 LUBE POINTS PER VALVE
ASSEMBLY

PRECISE LUBRICANT FLOW TO EACH LUBE POINT

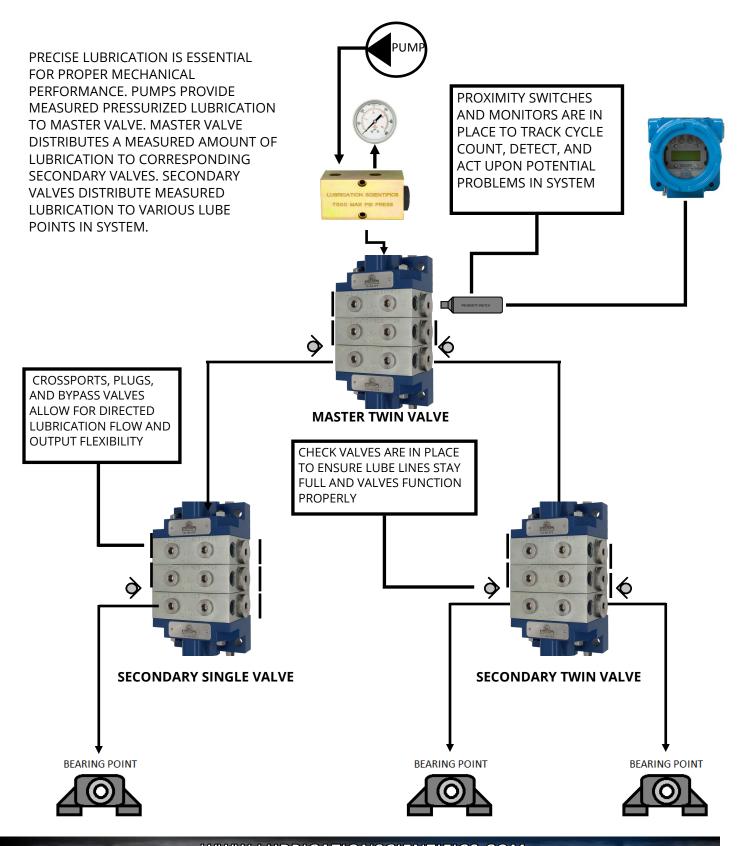
READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTION ILLUSTRATION & SPECIFICATIONS



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LGO SERIES DIVIDER VALVES—VALVE SECTIONS

STANDARD PACK: 1 EACH			
VALVE OUTPUT	VALVE DESCRIPTION	CARBON STEEL	316 STAINLESS STEEL
.300 CU IN 4.917 CC	150 SINGLE SAE	000-141151	316-141151
.150 CU IN 2.459 CC	150 TWIN SAE	000-141152	316-141152
.600 CU IN 9.834 CC	300 SINGLE SAE	000-141301	316-141301
.300 CU IN 4.917 CC	300 TWIN SAE	000-141302	316-141302
.900 CU IN 14.72 CC	450 SINGLE SAE	000-141451	316-141451
.450 CU IN 7.345 CC	450 TWIN SAE	000-141452	316-141452
1.20 CU IN 19.67 CC	600 SINGLE SAE	000-141601	316-141601
.600 CU IN 9.834 CC	600 TWIN SAE	000-141602	316-141602



LGO SERIES TIE RODS

2 UPPER & 2 LOWER TIE RODS REQUIRED PER VALVE ASSEMBLY

STANDARD PACK: 2 UPPER & 2 LOWER TIE RODS EACH			
TIE ROD DESCRIPTION	303 STAINLESS STEEL	316 STAINLESS STEEL	
TIE ROD KIT, 3 SECTION	141-TR3-303	141-TR3-316	
TIE ROD KIT, 4 SECTION	141-TR4-303	141-TR4-316	
TIE ROD KIT, 5 SECTION	141-TR5-303	141-TR5-316	
TIE ROD KIT, 6 SECTION	141-TR6-303	141-TR6-316	
TIE ROD KIT, 7 SECTION	141-TR7-303	141-TR7-316	
TIE ROD KIT, 8 SECTION	141-TR8-303	141-TR8-316	
TIE ROD KIT, 9 SECTION	141-TR9-303	141-TR9-316	
TIE ROD KIT, 10 SECTION	141-TR10-303	141-TR10-316	
TIE ROD KIT, 11 SECTION	141-TR11-303	141-TR11-316	

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LGO SERIES INLET/END SECTION

LGO SERIES REQUIRE AN INLET & OUTLET PER ASSEMBLY SECTION INLETS & OUTLETS ARE CORROSIVE RESISTANT, EPOXY COATED DUCTILE IRON

STANDARD PACK: 1 EACH		
PART DESCRIPTION PART NUMBER		
INLET, EPX, SAE	141-INL-EPX	
END, EPX, SAE	141-END-EPX	





LGO SERIES PLUGS, SEAL KITS, AND CROSSPORT KITS

PART DESCRIPTION	PART NUMBER	QTY IN PACK
LGO SEAL KIT—1 PER SECTION	L560950	1
LGO SERIES OUTLET PLUG, 303 SS, SAE	141-15018-303	3
LGO SERIES OUTLET PLUG, 316 SS, SAE	141-15018-316	3
LGO SERIES CROSSPORT KIT, 303 SS, SAE	141-52314-303	1
LGO SERIES CROSSPORT KIT, 316 SS, SAE	141-52314-316	1

LGO RELATED ACCESSORIES

PROXIMITY SWITCHES & CABLING

PART DESCRIPTION	303 STAINLESS	316 STAINLESS	STANDARD PACK	BULLETIN REFERENCE
PROXIMITY SWITCH, 3 PIN	N/A	L527251-1410	1	LSM003
PROXIMITY SWITCH, 4 PIN	N/A	L527112-1410	1	LSM003
PROXIMITY SWITCH, 5 PIN	N/A	L527111-1410	1	LSM003
3 PIN CABLE, 12' LENGTH	N/A	L527251-CBL12	1	LSM003
4 PIN CABLE, 12' LENGTH	N/A	L527112-CBL12	1	LSM003
5 PIN CABLE, 12' LENGTH	N/A	L527111-CBL12	1	LSM003

PERFORMANCE RESET INDICATORS

1,000 PSI RESET INDICATOR	303-P1000	316-P1000	5	LSM002
1,500 PSI RESET INDICATOR	303-P1500	316-P1500	5	LSM002
2,000 PSI RESET INDICATOR	303-P2000	316-P2000	5	LSM002
2,500 PSI RESET INDICATOR	303-P2500	316-P2500	5	LSM002
3,000 PSI RESET INDICATOR	303-P3000	316-P3000	5	LSM002
3,500 PSI RESET INDICATOR	303-P3500	316-P3500	5	LSM002
REQUIRED ADAPTER—RESET INDICATOR	141-PI-ADP-303	141-PI-ADP-316	5	LSM002





COMPLETE FILTER ASSEMBLY (NO GAUGE)

STANDARD PACK: 1 EACH		
PRODUCT DESCRIPTION	PART NUMBER	
FILTER ASSEMBLY (SHORT) 10 MICRONS	CFIL-10-US	
FILTER ASSEMBLY (SHORT) 20 MICRONS	CFIL-20-US	
FILTER ASSEMBLY (SHORT) 50 MICRONS	CFIL-50-US	

NOTE: PRESSURE GAUGES SOLD SEPARATELY

STANDARD PACK: 1 EACH		
PRODUCT DESCRIPTION	PART NUMBER	
FILTER ASSEMBLY (LONG) 10 MICRONS	CFIL-10-UL	
FILTER ASSEMBLY (LONG) 20 MICRONS	CFIL-20-UL	
FILTER ASSEMBLY (LONG) 50 MICRONS	CFIL-50-UL	

NOTE: PRESSURE GAUGES SOLD SEPARATELY



REPLACEMENT FILTER ELEMENTS & GAUGE

STANDARD PACK: 1 EACH					
PRODUCT DESCRIPTION	PART NUMBER				
FILTER ELEMENT (SHORT) 10 MICRONS	CFIL-10-ES				
FILTER ELEMENT (SHORT) 20 MICRONS	CFIL-20-ES				
FILTER ELEMENT (SHORT) 50 MICRONS	CFIL-50-ES				

STANDARD PACK: 1 EACH					
PRODUCT DESCRIPTION	PART NUMBER				
FILTER ELEMENT (LONG) 10 MICRONS	CFIL-10-EL				
FILTER ELEMENT (LONG) 20 MICRONS	CFIL-20-EL				
FILTER ELEMENT (LONG) 50 MICRONS	CFIL-50-EL				

STANDARD PACK: 1 EACH					
GAUGE DESCRIPTION	PART NUMBER				
LOWER MOUNT, 1/4 NPTF, 5000 PSI	LM-25-5K-4				



ORDERING INFORMATION & PART NUMBERS ADDITIONAL ACCESSORIES FOR VERIFYING LUBRICATION SYSTEM FUNCTION

STANDARD PACK: 5 EACH				
PRODUCT DESCRIPTION	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL	
4 WAY CROSS				
1/8 NPSF (X4)	L509189-000	L509189-303	L509189-316	
9/32 MTG HOLE				
4 WAY CROSS				
1/4 NPSF (X4)	L509188-000	L509188-303	L509188-316	
9/32 MTG HOLE				
5 WAY CROSS				
1/4 NPSF (X4)				
1/8 NPSF (X1)	L509190-000	L509190-303	L509190-316	
9/32 MTG HOLE				
2 WAY STRAIGHT				
1/8 NPSF (X2)	L509180-000	L509180-303	L509180-316	
9/32 MTG HOLE				
2 WAY STRAIGHT				
1/4 NPSF (X2)	L509185-000	L509185-303	L509185-316	
9/32 MTG HOLE				
90 DEGREE ELBOW				
1/8 NPSF (X2)	L509170-000	L509170-303	L509170-316	
9/32 MTG HOLE				
90 DEGREE ELBOW				
1/4 NPSF (X2)	L509175-000	L509175-303	L509175-316	
9/32 MTG HOLE				









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LGO FEEDER PART NUMBER ORDERING GUIDE

LMX-XXX-XX-XXXXXX

LGO-XXX-XXXXXXX				
MATERIAL	P/N			
CARBON STEEL	CRS			
316 STAINLESS STEEL	316			

LGO-XX-XXXXXX			
NUMBER OF SECTIONS	P/N		
THREE	3		
FOUR	4		
FIVE	5		
SIX	6		
SEVEN	7		
EIGHT	8		
NINE	9		
TEN	10		
ELEVEN	11		

LGO-XXX-XXXXXX				
VALVE SIZE	P/N			
.150 CU. IN.	150			
.300 CU. IN.	300			
.450 CU. IN.	450			
.600 CU. IN.	600			

LGO-XXX-XXXXXX			
TYPE OF SECTION	P/N		
TWIN	Т		
SINGLE, RH OUTLET	S		
SINGLE, LH OUTLET	L		
TWIN, PROXIMITY SWITCH RIGHT	Е		
SINGLE, PROXIMITY SWITCH RIGHT, RH OUTLET	F		
SINGLE, PROXIMITY SWITCH RIGHT, LH OUTLET	G		
TWIN, PROXIMITY SWITCH LEFT	М		
SINGLE, PROXIMITY SWITCH LEFT, RH OUTLET	N		
SINGLE, PROXIMITY SWITCH LEFT, LH OUTLET	Р		

LGO-XXX-XXXXXX					
CROSSPORT OPTION	P/N				
RIGHT SIDE	CR				
LEFT SIDE	CL				
BOTH SIDES	СВ				

PRODUCT INTERCHANGE—LGO DIVIDER VALVES

LUBRICATION SCIENTIFICS	LUBRIQUIP	GRACO	LINCOLN	FARVAL	PRODUCT DESCRIPTION
141-INL	N/A	563277	N/A	N/A	LGO CS INLET SECTION 7/8-14 SAE
141-END	N/A	563278	N/A	N/A	LGO CS END SECTION
141-TR3	N/A	N/A	N/A	N/A	LGO 303 3 SECTION LIE ROD AND NUT KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	560600	N/A	N/A	GRACO MGO-3 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560591	N/A	N/A	GRACO MGO-3 SECTION TIE ROD SHORT LESS NUT (2 EACH REQ'D)
141-TR4	N/A	N/A	N/A	N/A	LGO 303 4 SECTION LIE ROD AND NUT KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	560601	N/A	N/A	GRACO MGO-4 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560592	N/A	N/A	GRACO MGO-4SECTION TIE ROD SHORT LESS NUT (2 EACH REQ'D)
141-TR5	N/A	N/A	N/A	N/A	LGO 303 5 SECTION LIE ROD AND NUTS KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	560602	N/A	N/A	GRACO MGO-5SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560593	N/A	N/A	GRACO MGO-5 SECTION TIE ROD SHORT LESS NUT (2 EACH REQ'D)
141-TR6	N/A	N/A	N/A	N/A	LGO 303 6 SECTION LIE ROD AND NUT KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	560603	N/A	N/A	GRACO MGO-6 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560594	N/A	N/A	GRACO MGO-6 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
141-TR7	N/A	N/A	N/A	N/A	LGO 303 7 SECTION LIE ROD AND NUTS KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	15U857	N/A	N/A	GRACO MGO-7 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560595	N/A	N/A	GRACO MGO-7 SECTION TIE ROD SHORT LESS NUT (2 EACH REQ'D)
141-TR8	N/A	N/A	N/A	N/A	LGO 303 8 SECTION LIE ROD AND NUT KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	560604	N/A	N/A	GRACO MGO-8 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560596	N/A	N/A	GRACO MGO-8 SECTION TIE ROD SHORT LESS NUT (2 EACH REQ'D)
141-TR9	N/A	N/A	N/A	N/A	LGO 303 9 SECTION LIE ROD AND NUT KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	560605	N/A	N/A	GRACO MGO-9 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560597	N/A	N/A	GRACO MGO-9 SECTION TIE ROD SHORT LESS NUT (2 EACH REQ'D)
141-TR10	N/A	N/A	N/A	N/A	LGO 303 10 SECTION LIE ROD AND NUT KIT (2 LONG 2 SHORT RODS & 4 NUTS)
N/A	N/A	560606	N/A	N/A	GRACO MGO-10 SECTION TIE ROD LONG LESS NUT (2 EACH REQ'D)
N/A	N/A	560598	N/A	N/A	GRACO MGO-10 SECTION TIE ROD SHORT LESS NUT (2 EACH REQ'D)
LGO-TRN-SS	N/A	557494	N/A	N/A	LGO 303 TIE ROD NUT
141-150S	N/A	562570	N/A	N/A	LGO CS 150S VALVE SECTION 0.300 CU. IN PER OUTLET 7/8-14 SAE PORT
141-150T	N/A	562574	N/A	N/A	LGO CS 150T VALVE SECTION 0.150 CU. IN PER OUTLET 7/8-14 SAE PORT
141-300S	N/A	562571	N/A	N/A	LGO CS 300S VALVE SECTION 0.600 CU. IN PER OUTLET 7/8-14 SAE PORT
141-300T	N/A	562575	N/A	N/A	LGO CS 300T VALVE SECTION 0.300 CU. IN PER OUTLET 7/8-14 SAE PORT
141-450S	N/A	562572	N/A	N/A	LGO CS 450S VALVE SECTION 0.900 CU. IN PER OUTLET 7/8-14 SAE PORT
141-450T	N/A	562576	N/A	N/A	LGO CS 450T VALVE SECTION 0.450 CU. IN PER OUTLET 7/8-14 SAE PORT
141-600S	N/A	562573	N/A	N/A	LGO CS 600S VALVE SECTION 1.200 CU. IN PER OUTLET 7/8-14 SAE PORT
141-600T	N/A	562577	N/A	N/A	LGO CS 600S VALVE SECTION 0.600 CU. IN PER OUTLET 7/8-14 SAE PORT
141-ORSK	N/A	563926	N/A	N/A	LGO CS 1-SECTION O-RING KIT
141-15018-303	N/A	556424	N/A	N/A	LGO CS OUTLET PORT PLUG 7/8-14 SAE

DISCLAIMER: Lubrication Scientifics, LLC assumes no responsibility for errors or omissions which may have occurred. While every effort is made to attain accurate information, it is ultimately the responsibility of the distributor and/or customer to verify the accuracy of the information.

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS





LD SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS

ECONOMICAL AND COMPACT-STANDARD PRESSURE VALVES

PRODUCT DESCRIPTION

STANDARD PRESSURE, TWO PIECE O-RING SEALED, SERIES PROGRESSIVE DIVIDER VALVES. IDEAL FOR AUTOMOTIVE AND OTHER COMPACT MACHINERY. DESIGNED FOR OIL AND GREASE LUBRICATION SYSTEMS. LD DIVIDER VALVES WILL ACCOMMODATE 2-6 LUBE POINTS PER VALVE ASSEMBLY.

BENEFITS & FEATURES

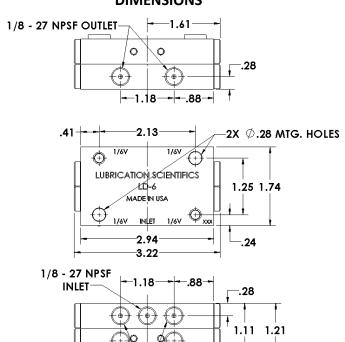
- PRECISE METERED LUBRICANT FLOW TO EACH LUBE POINT
- SIMPLE TO INSTALL ON NEW OR EXISTING MACHINES
- USED FOR LOW PRESSURE OIL OR GREASE APPLICATIONS UP TO 3,000 PSI
- 2-6 LUBE POINTS PER VALVE ASSEMBLY
- WIDE RANGE OF ACCESSORIES AVAILABLE FOR ANY SYSTEM REQUIREMENT
- COMPACT DESIGN FOR TIGHT SPACES AND/OR LIMITED SPACE
- MATCH HONED STEEL PISTONS
- AVAILABLE IN PLATED CARBON STEEL AND 316 STAINLESS STEEL, BOTH WITH STAINLESS STEEL ENCLOSURE PLUGS

READY FOR IMMEDIATE SHIPMENT



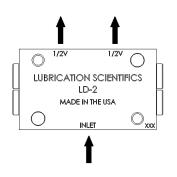
LD SERIES DIVIDER VALVES

DIMENSIONS

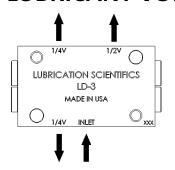


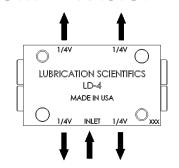
TECHNICAL SPECIFICATIONS				
MATERIAL	ZINC PLATED STEEL or 316 STAINLESS			
PRESSURE MAX	3,000 psi (207bar)			
LUBRICANT	OIL OR GREASE			
NET WEIGHT (approx.)	1lb 8oz (0.68kg)			
LUBRICANT VOLUMETO CYCLE DIVIDER VALVE ONE COMPLETE CYCLE:	LD-2, LD-3, LD-4 : 0.080 in ³ (1.31ccm) LD-6 : 0.060 in ³ (0.98 ccm)			
TORQUE RATINGS	ASSEMBLY BOLT: 8-9ft lbs			
	ENCLOSURE PLUGS: 11-13 ft lbs			
	INDICATOR ASSEMBLY: 15 ft lbs			
	OUTLET PLUGS: 6-7 ft lbs			

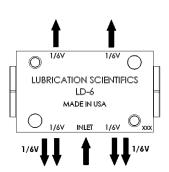
LUBRICANT VOLUME DIVISION



1/8 - 27 NPSF OUTLET

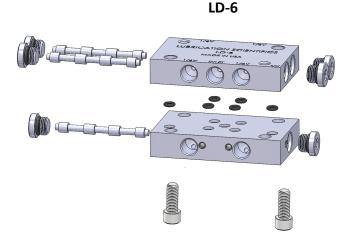






PARTS BREAKDOWN

LD-2, LD-3, LD-4



LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

ORDERING INFORMATION & PART NUMBERS



STANDARD PACK: 1 EACH					
NUMBER OF OUTLETS	PART DESCRIPTION	CRS	316 STAINLESS STEEL		
2 OUTLETS	LD-2, TWO OUTLET DIVIDER VALVE	LD2-000	LD2-316		
.080 in ³ TO COMPLETE FULL CYCLE. VOLUME DIVISION: .040in ³ OUTPUT PER OUTLET	LD-2, TWO OUTLET DIVIDER VALVE W/ RIGHT HAND CYCLE INDICATOR PIN	LD2-000-RHCIP	LD2-316-RHCIP		
3 OUTLETS	LD-3, THREE OUTLET DIVIDER VALVE	LD3-000	LD3-316		
.080 in ³ TO COMPLETE FULL CYCLE. VOLUME DIVISION: ONE OUTLET .040in ³ OUTPUT TWO OUTLETS .020in ³ OUTPUT	LD-2, THREE OUTLET DIVIDER VALVE W/ RIGHT HAND CYCLE INDICATOR PIN	LD3-000-RHCIP	LD3-316-RHCIP		
4 OUTLETS .080 in ³ TO COMPLETE FULL CYCLE.	LD-4, FOUR OUTLET DIVIDER VALVE	LD4-000	LD4-316		
VOLUME DIVISION: .020in ³ OUTPUT PER OUTLET	LD-4, FOUR OUTLET DIVIDER VALVE W/ RIGHT HAND CYCLE INDICATOR PIN	LD4-000-RHCIP	LD4-316-RHCIP		
6 OUTLETS .060 in ³ TO COMPLETE FULL CYCLE. VOLUME DIVISION: .010in ³ OUTPUT PER OUTLET	LD-6, SIX OUTLET DIVIDER VALVE	LD6-000	LD6-316		

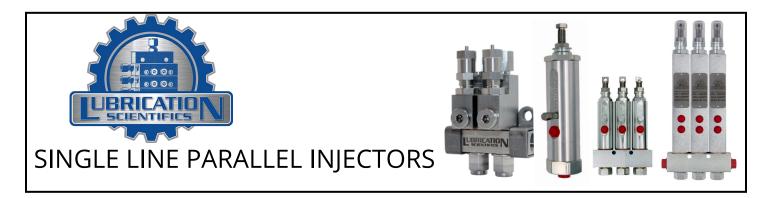
LUBRICATION SCIENTIFICS, LLC

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



SINGLE LINE PARALLEL INJECTOR SYSTEMS

INJECTORS—PUMPS—ACCESSORIES



PRODUCT DESCRIPTION

CARBON OR STAINLESS STEEL CONSTRUCTION

POSITIVE DISPLACEMENT INJECTORS ARE SINGLE LINE

CAN BE USED AS STAND ALONE OR IN PARALLEL, 100% <u>COMPATIBLE WITH EXISTING MANIFOLDS</u>

FULLY ADJUSTABLE, LOW TO HIGH OUTPUT RANGING FROM .001 CU-IN UP TO .50 CU-IN PER CYCLE

REPAIR KITS AVAILABLE

U.S. & METRIC MODELS AVAILABLE

DESIGNED FOR USE IN FOOD/BEVERAGE PROCESSING, PACKAGING, PULP & PAPER MILLS, MINING, STEEL, POWER GENERATION, AUTOMOTIVE, AND MANY OTHER INDUSTRIES

BENEFITS & FEATURES

INJECTORS CAN BE STAND ALONE OR ASSEMBLED IN MULTIPLE
INJECTOR MANIFOLDS

QUICK AND EASY TO REPAIR AND SERVICE WITH LITTLE TO NO
DOWNTIME AND LUBRICANT LOSS

LUBRICATION APPLICATIONS FROM OIL TO #2 GREASE

EXTERNAL ADJUSTABLE OUTPUTS FROM .001-.50 CU-IN

PRESSURE RATING UP TO 6000 PSI

VISUAL INDICATOR PIN STANDARD ON ALL INJECTORS

VINYL CAPS STANDARD

SINGLE LUBE LINE, FLEXIBLE, COST EFFECTIVE LUBRICATION
SOLUTION

IMPROVED SEAL DESIGN AND INTERNAL FLOW FOR QUICKER
RESET

SELF ALIGNING PISTON FOR UNSTABLE ENVIRONMENTS

CARBON STEEL, 303, & 316 STAINLESS STEEL INJECTORS IN STOCK

READY FOR IMMEDIATE SHIPMENT

MADE IN



WWW.LUBRICATIONSCIENTIFICS.COM

LSL-32 MAG STANDARD VENTING PRESSURE—GREASE



100% COMPATIBLE WITH EXISTING COMPETITORS MANIFOLDS

OUTPUTS UP TO 50% MORE
LUBRICATION

ADJUSTABLE OUTPUT FROM .001 CU-IN
TO .012 CU-IN | .016cc TO .196cc
AVAILABLE IN 316 STAINLESS STEEL
MANUAL FILL PORT STANDARD, FILL
STUDS AVAILABLE (PAGE 6)



LSL-32 MAG STANDARD VENTING PRESSURE—(US & METRIC CONNECTORS AVAILABLE)						
INJECTORS IN ASSEMBLY	INLET (FEMALE)	OUTLET*	OUTPUT RANGE (CU-IN / CC)	PRESSURE (PSI / BAR) MIN/MAX/VENT	303 STAINLESS	316 STAINLESS
1	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M1-A2-303	LSL-32M-M1-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M1-MA6-303	LSL-32M-M1-MA6-316
2	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M2-A2-303	LSL-32M-M2-A2-316
	1/4" -19 BSPP	6MM TUBE	016-197	83/241/14	LSL-32M-M2-MA6-303	LSL-32M-M2-MA6-316
3	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M3-A2-303	LSL-32M-M3-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M3-MA6-303	LSL-32M-M3-MA6-316
4	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M4-A2-303	LSL-32M-M4-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M4-MA6-303	LSL-32M-M4-MA6-316
5	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M5-A2-303	LSL-32M-M5-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M5-MA6-303	LSL-32M-M5-MA6-316
6	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M6-A2-303	LSL-32M-M6-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M6-MA6-303	LSL-32M-M6-MA6-316
7	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M7-A2-303	LSL-32M-M7-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M7-MA6-303	LSL-32M-M7-MA6-316
8	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M8-A2-303	LSL-32M-M8-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M8-MA6-303	LSL-32M-M8-MA6-316
9	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M9-A2-303	LSL-32M-M9-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M9-MA6-303	LSL-32M-M9-MA6-316
10	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-M10-A2-303	LSL-32M-M10-A2-316
	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-M10-MA6-303	LSL-32M-M10-MA6-316
STAND ALONE	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-SA2-303	LSL-32M-SA2-316
INJECTOR	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-SMA6-303	LSL-32M-SMA6-316
REPLACEMENT	1/4" NPSF	1/8" TUBE	.001012	1200/3500/200	LSL-32M-A2-303	LSL-32M-A2-316
INJECTOR	1/4" -19 BSPP	6MM TUBE	.016-197	83/241/14	LSL-32M-MA6-303	LSL-32M-MA6-316

^{*}ALTERNATIVE OUTLET OPTIONS AVAILABLE, SEE PAGE 6

LSL-32 MAG HIGH VENTING PRESSURE—GREASE

100% COMPATIBLE WITH EXISTING COMPETITORS MANIFOLDS

THE LSL-32 MAGNUM OUTPUTS UP TO 50% MORE LUBRICATION

ADJUSTABLE OUTPUT FROM .001 CU-IN TO .012 CU-IN | .016cc TO .196cc

AVAILABLE IN 316 STAINLESS STEEL

MANUAL FILL PORT STANDARD, FILL STUDS AVAILABLE (PAGE 6)

VINYL PROTECTIVE CAPS INCLUDED

AVAILABLE IN METRIC INLETS & OUTLETS

TEMPERATURE RATED TO 350° STD



LSL-32 MAG HIGH VENTING PRESSURE							
INJECTORS IN ASSEMBLY			UTLET* OUTPUT RANGE (PSI / BAR) MALE) (CU-IN / CC) MIN/MAX/VENT		303 STAINLESS	316 STAINLESS	
1	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M1-A2-303	LSL-32MH-M1-A2-316	
2	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M2-A2-303	LSL-32MH-M2-A2-316	
3	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M3-A2-303	LSL-32MH-M3-A2-316	
4	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M4-A2-303	LSL-32MH-M4-A2-316	
5	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M5-A2-303	LSL-32MH-M5-A2-316	
6	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M6-A2-303	LSL-32MH-M6-A2-316	
7	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M7-A2-303	LSL-32MH-M7-A2-316	
8	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M8-A2-303	LSL-32MH-M8-A2-316	
9	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M9A2-303	LSL-32MH-M9-A2-316	
10	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-M10-A2-303	LSL-32MH-M10-A2-316	
STAND ALONE INJECTOR	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-SA2-303	LSL-32MH-SA2-316	
REPLACEMENT INJECTOR	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	1200/3500/600 83/241/41	LSL-32MH-A2-303	LSL-32MH-A2-316	

^{*}ALTERNATIVE OUTLET OPTIONS AVAILABLE, SEE PAGE 6

LSL-43 MAG HIGH VENTING PRESSURE—OIL INJECTORS

100% COMPATIBLE WITH EXISTING COMPETITORS MANIFOLDS



THE LSL-43 MAGNUM OUTPUTS UP TO 50% MORE LUBRICATION

ADJUSTABLE OUTPUT FROM .001 CU-IN TO .012 CU-IN | .016cc TO .196cc

AVAILABLE IN 316 STAINLESS STEEL

MANUAL FILL PORT STANDARD, FILL STUDS AVAILABLE (PAGE 6)

VINYL PROTECTIVE CAPS INCLUDED

AVAILABLE IN METRIC INLETS & OUTLETS

TEMPERATURE RATED TO 350° STD



	LSL-43 MAG OIL INJECTORS							
INJECTORS IN ASSEMBLY	INLET	OUTLET*	OUTPUT RANGE (CU-IN / CC)	PRESSURE (PSI / BAR) MIN/MAX/VENT	303 STAINLESS	316 STAINLESS		
1	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M1-A2-303	LSL-43M-M1-A2-316		
2	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M2-A2-303	LSL-43M-M2-A2-316		
3	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M3-A2-303	LSL-43M-M3-A2-316		
4	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M4-A2-303	LSL-43M-M4-A2-316		
5	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M5-A2-303	LSL-43M-M5-A2-316		
6	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M6-A2-303	LSL-43M-M6-A2-316		
7	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M7-A2-303	LSL-43M-M7-A2-316		
8	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M8-A2-303	LSL-43M-M8-A2-316		
9	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M9-A2-303	LSL-43M-M9-A2-316		
10	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-M10-A2-303	LSL-43M-M10-A2-316		
STAND ALONE INJECTOR	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-SA2-303	LSL-43M-SA2-316		
REPLACEMENT INJECTOR	1/4" NPSF (F)	1/8" TUBE	.001012 .016-197	750/1000/300 52/69/21	LSL-43M-A2-303	LSL-43M-A2-316		

^{*}ALTERNATIVE OUTLET OPTIONS AVAILABLE, SEE PAGE 6

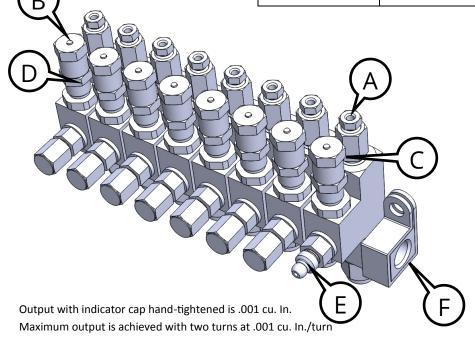
LSL-32 MAG & LSL-43 MAG ADDITIONAL OUTLET FITTINGS

FOR OTHER OUTLET OPTIONS WHEN ORDERING THE LSL-32 OR LSL-43 INJECTOR SERIES, CHANGE THE A# IN THE PART NUMBER WITH ONE OF THE FOLLOWING OPTIONS BELOW.

EXAMPLE

LSL-32M-M4-A2-303 (STANDARD) LSL-32M-M4-MA6-303 (METRIC)

OUTLET TYPE	PART NUMBER
1/8" NPSF (F)	A1
1/8" TUBE (STD)	A2
1/4" TUBE	А3
1/8" NPTF (M)	A4
4MM TUBE	A5
6MM TUBE	A6
#4 JIC	A7



Α	LUBRICATION OUTLET
В	CYCLE INDICATOR PIN
С	OUTPUT ADJUSTMENT
D	ADJUSTMENT LOCK NUT
E*	MANUAL FILL STUD (OPTIONAL)
F	LUBRICANT FROM SUPPLY LINE

* MANUAL FILL STUD PART NO. L90471-ORS-303.

LSL-1 SERIES ORDERING INFORMATION & PART NUMBERS

STANDARD INJECTOR & MANIFOLD ASSEMBLIES

ADJUSTABLE OUTPUT FROM .008 CU-IN TO .080 CU-IN
MAXIMUM/MINIMUM OPERATING PRESSURE 5000 PSI/1850 PSI
COMES STANDARD WITH 1/8 NPTF STAINLESS STEEL FILL FITTING
VINYL PROTECTIVE CAPS INCLUDED
VENT PRESSURE = 600 PSI
TEMPERATURE RATED TO 350° STD



	INJECTOR ASSEMBLIES								
INJECTORS IN ASSEMBLY	INLET	OUTLET	OUTPUT RANGE (CU-IN / CC)	CARBON STEEL	303 STAINLESS	316 STAINLESS			
1	3/8 NPTF (F)	1/8 NPSF (F)	.008080 .13-1.31	LSL-M1A-000	LSL-M1A-303	LSL-M1A-316			
2	3/8 NPTF (F)	1/8 NPSF (F)	.008080 .13-1.31	LSL-M2A-000	LSL-M2A-303	LSL-M2A-316			
3	3/8 NPTF (F)	1/8 NPSF (F)	.008080 .13-1.31	LSL-M3A-000	LSL-M3A-303	LSL-M3A-316			
4	3/8 NPTF (F)	1/8 NPSF (F)	.008080 .13-1.31	LSL-M4A-000	LSL-M4A-303	LSL-M4A-316			
5	3/8 NPTF (F)	1/8 NPSF (F)	.008080 .13-1.31	LSL-M5A-000	LSL-M5A-303	LSL-M5A-316			
6	3/8 NPTF (F)	1/8 NPSF (F)	.008080 .13-1.31	LSL-M6A-000	LSL-M6A-303	LSL-M6A-316			

LSL-1-R5 SERIES ORDERING INFORMATION & PART NUMBERS

OUTPUT INJECTOR & MANIFOLD ASSEMBLIES



ADJUSTABLE OUTPUT FROM .008 CU-IN TO .080 CU-IN
MAXIMUM/MINIMUM OPERATING PRESSURE 6000 PSI/1850 PSI
COMES STANDARD WITH 1/8 NPTF STAINLESS STEEL FILL FITTING
VINYL PROTECTIVE CAPS INCLUDED
VENT PRESSURE = 600 PSI
TEMPERATURE RATED TO 350° STD



MID-RANGE OUTPUT INJECTOR ASSEMBLIES								
INJECTORS IN ASSEMBLY	INLET	OUTLET	OUTPUT RANGE (CU-IN / CC)	CARBON STEEL	303 STAINLESS	316 STAINLESS		
1	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-M1A-000-R5	LSL-M1A-303-R5	LSL-M1A-316-R5		
2	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-M2A-000-R5	LSL-M2A-303-R5	LSL-M2A-316-R5		
3	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-M3A-000-R5	LSL-M3A-303-R5	LSL-M3A-316-R5		
4	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-M4A-000-R5	LSL-M4A-303-R5	LSL-M4A-316-R5		
5	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-M5A-000-R5	LSL-M5A-303-R5	LSL-M5A-316-R5		
6	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-M6A-000-R5	LSL-M6A-303-R5	LSL-M6A-316-R5		
REPLACEMENT INJECTOR	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-1A-000-R5	LSL-1A-303-R5	LSL-1A-316-R5		
STANDALONE INJECTOR	3/8 NPTF (F)	1/8 NPSF (F)	.008—.080 .13-1.31	LSL-1-000-R5	LSL-1-303-R5	LSL-1-316-R5		

LSL-1 HIGH OUTPUT SERIES ORDERING INFORMATION & PART NUMBERS

INJECTOR & MANIFOLD ASSEMBLIES

ADJUSTABLE OUTPUT FROM .035 CU-IN TO .305 CU-IN
MAXIMUM/MINIMUM OPERATING PRESSURE 6000 PSI/1850 PSI
COMES STANDARD WITH 1/8 NPTF STAINLESS STEEL FILL FITTING
4—6 TIMES GREATER FLOW PATH ALLOWS FOR FASTER VENTING
ENHANCED ENGINEERING TO OUTPERFORM CURRENT INJECTOR TECHNOLOGY
HEAVY DUTY SPRINGS FOR IMPROVED LIFE CYCLE
VINYL PROTECTIVE CAPS INCLUDED
VENT PRESSURE = 1000 PSI
TEMPERATURE RATED TO 350° STD



	HIGH OUTPUT INJECTOR ASSEMBLIES								
INJECTORS IN ASSEMBLY	INLET	OUTLET	OUTPUT RANGE (CU-IN / CC)	CARBON STEEL	303 STAINLESS	316 STAINLESS			
1	3/8 NPTF (F)	1/8 NPSF (F)	.01531 .24-5.07	LSL-M1A-000-HO	LSL-M1A-303-HO	LSL-M1A-316-HO			
2	3/8 NPTF (F)	1/8 NPSF (F)	.01531 .24-5.07	LSL-M2A-000-HO	LSL-M2A-303-HO	LSL-M2A-316-HO			
3	3/8 NPTF (F)	1/8 NPSF (F)	.01531 .24-5.07	LSL-M3A-000-HO	LSL-M3A-303-HO	LSL-M3A-316-HO			
4	3/8 NPTF (F)	1/8 NPSF (F)	.01531 .24-5.07	LSL-M4A-000-HO	LSL-M4A-303-HO	LSL-M4A-316-HO			
5	3/8 NPTF (F)	1/8 NPSF (F)	.01531 .24-5.07	LSL-M5A-000-HO	LSL-M5A-303-HO	LSL-M5A-316-HO			
6	3/8 NPTF (F)	1/8 NPSF (F)	.01531 .24-5.07	LSL-M6A-000-HO	LSL-M6A-303-HO	LSL-M6A-316-HO			

LSL-1 / R5 / HIGH OUTPUT SERIES OVERVIEW ORDERING INFORMATION & PART NUMBERS

LSL-1 INJECTORS: STANDALONE & MANIFOLD REPLACEMENT TYPES

ADJUSTABLE OUTPUT FROM .008 CU-IN-IN TO .080 CU-IN-IN STD & R5 OUTPUT ADJUSTABLE OUTPUT FROM .035 CU-IN-IN TO .305 CU-IN-IN HIGH OUTPUT MAXIMUM/MINIMUM OPERATING PRESSURE 5000 PSI/1850 PSI COMES STANDARD WITH 1/8 NPTF STAINLESS STEEL FILL FITTING VINYL PROTECTIVE CAPS INCLUDED VENT PRESSURE = 600 PSI - TO 1000 PSI



STANDARD PACK: 1 EACH						
PRODUCT DESCRIPTION	SUPPLY	OUTLET	OUTPUT (CU-IN)	CARBON STEEL	303 STAINLESS	316 STAINLESS
SINGLE STANDALONE INJECTOR (STD)	3/8 NPTF (M)	1/8 NPSF (F)	.008080 .13-1.31	LSL-1-000	LSL-1-303	LSL-1-316
SINGLE STANDALONE INJECTOR (HIGH OUTPUT)	3/8 NPTF (M)	1/8 NPSF (F)	.035305 .57-4.99	LSL-1-000-HO	LSL-1-303-HO	LSL-1-316-HO
SINGLE STANDALONE INJECTOR (R5 MODEL)	3/8 NPTF (M)	1/8 NPSF (F)	.008080 .13-1.31	LSL-1-000-R5	LSL-1-303-R5	LSL-1-316-R5
MANIFOLD REPLACEMENT INJECTOR (STD & R5)	MANIFOLD	1/8 NPSF (F)	.008080 .13-1.31	LSL-1A-000	LSL-1A-303	LSL-1A-316
MANIFOLD REPLACEMENT INJECTOR (HIGH OUTPUT)	MANIFOLD	1/8 NPSF (F)	.035305 .57-4.99	LSL-1A-000-HO	LSL-1A-303-HO	LSL-1A-316-HC
INJECTOR SEAL REBUILD KIT (STD)	N/A	N/A	N/A	LSL-1RK		
INJECTOR MAJOR REBUILD KIT (STD & R5)	N/A	N/A	N/A	LSL-1MRK		
INJECTOR SEAL REBUILD KIT (HIGH OUTPUT)	N/A	N/A	N/A	LSL-1RK-HO		
INJECTOR MAJOR REBUILD KIT (HIGH OUTPUT)	N/A	N/A	N/A	LSL-1MRK-HO		

REBUILD KIT NOTES:

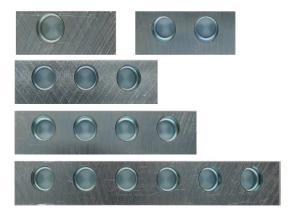
MAJOR REBUILD KIT INCLUDES ALL NECESSARY PARTS TO DO A COMPLETE REBUILD OF THE INJECTOR'S INTERNALS.

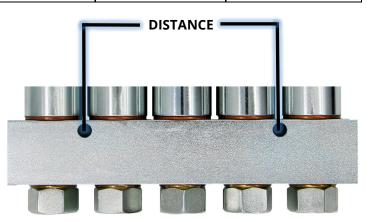
SEAL REBUILD KIT INCLUDES THE NECESSARY O-RINGS & PACKING TO REBUILD THE INJECTOR USING EXISTING INTERNAL HARDWARE

SINGLE LINE INJECTOR SYSTEM ACCESSORIES LSL-1 INJECTOR BARE MANIFOLDS

FOR USE WITH LSL-1A, LSL-1A-R5, & LSL-1A-HO INJECTORS

STANDARD PACK: 1 EACH								
INJECTORS IN ASSEMBLY	OUTPUT	CARBON STEEL	303 STAINLESS	316 STAINLESS	MOUNTING HOLE DISTANCE			
1	3/8 NPSF (F)	LSL-M1-000	LSL-M1-303	LSL-M1-316	2"/2.54cm			
2	3/8 NPSF (F)	LSL-M2-000	LSL-M2-303	LSL-M2-316	2.5"/6.35cm			
3	3/8 NPSF (F)	LSL-M3-000	LSL-M3-303	LSL-M3-316	1.25"/3.175cm			
4	3/8 NPSF (F)	LSL-M4-000	LSL-M4-303	LSL-M4-316	2.5"/6.35cm			
5	3/8 NPSF (F)	LSL-M5-000	LSL-M5-303	LSL-M5-316	3.75"/9.525cm			
6	3/8 NPSF (F)	LSL-M6-000	LSL-M6-303	LSL-M6-316	5"/12.7cm			





LS MANIFOLD THREADED INSERTS

CONVERTS LINCOLN® 3/8-16" MANIFOLD MOUNTS TO 1/4-28" LS MOUNTS



LINCOLN® OUTER THREAD (MALE): 3/8"-16

LS INNER THREAD (FEMALE): 1/4"-28

MANIFOLD THREADED INSERTS				
DESCRIPTION	PART NUMBER			
3/8-16" TO 1/4-28" THREADED INSERTS, 303 STAINLESS STEEL	LSL-MADP-303			

^{*} LINCOLN® IS A REGISTERED TRADEMARK OF LINCOLN® INDUSTRIAL

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

SINGLE LINE INJECTOR SYSTEM ACCESSORIES

STANDARD PACK: 1 EACH					
PRODUCT DESCRIPTION	NOTES	CARBON STEEL	303 STAINLESS	316 STAINLESS	PICTURE
MANIFOLD PLUG KIT	PLUGS LSL-1A MANIFOLD INJECTOR PORT	LSL-1A-PLUG	LSL-1A-PLUGSS3	LSL-1A-PLUGSS6	N/A
INJECTOR CROSS PORTING KIT	PRE-BENT TUBE W/ CONNECTION FITTING STAINLESS STEEL CON- STRUCTION ONLY	N/A	LSL-1A-CPK	N/A	N/A
INJECTOR COVER (VINYL ONLY)	COVERS INDICATOR STEM ASSEMBLY		LSL-1A-CAPV		N/A
INJECTOR COVER (STEEL)	COVERS INDICATOR STEM ASSEMBLY		LSL-1A-CAPSS		N/A
THREAD INSERT ADAPTERS	10EA. ADAPTS TO AN EXISTING LIN- COLN® MOUNTING HOLE	N/A	LSL-MADP-303	LSL-MADP-316	N/A
THREADED GREASE FILL FITTINGS	GREASE FILL FITTINGS W/ CAPS: <u>USE</u> <u>WITH:</u> LSL-11, LSL-1A, LSL-1A-HO, & LSL-1A-M5 INJECTORS	N/A	L90471-NPTF-303	L90471-NPTF-316	N/A
THREADED GREASE FILL FITTINGS	GREASE FILL FITTINGS W/ CAPS: <u>USE</u> <u>WITH:</u> LSL-32 & LSL-43 INJECTORS	N/A	L90471-ORS-303	L90471-ORS-316	N/A
INJECTOR CONNECTOR TUBE 1/8" NPTF MALE, LSL-1A & UP	USE WITH: LSL1A, LSL-1A-M5, LSL-1A-HO, LSL-11	N/A	LSL-1A-CPK-303	LSL-1A-CPK-316	N/A
LSL 32M STYLE OUTLET CONNECT- OR 1/8" NPSF FEMALE	USE WITH: LSL-32 & LSL-43	N/A	AC32M-A1-303	AC32M-A1-316	N/A
LSL 32M STYLE OUTLET CONNECT- OR 1/4" O.D. TUBE	USE WITH: LSL-32 & LSL-43	N/A	AC32M-A3-303	AC32M-A3-316	N/A
LSL 32M STYLE OUTLET CONNECT- OR 1/8" NPTF MALE	USE WITH: LSL-32 & LSL-43	N/A	AC32M-A4-303	AC32M-A4-316	N/A
LSL 32M STYLE OUTLET CON- NECTOR 4MM TUBE	USE WITH: LSL-32 & LSL-43	N/A	AC32M-A5-303	AC32M-A5-316	N/A
LSL 32M STYLE OUTLET CONNECT- OR 6MM TUBE	USE WITH: LSL-32 & LSL-43	N/A	AC32M-A6-303	AC32M-A6-316	N/A
COMPRESSION NUT, 5/16-24, ONE PIECE, BRASS		N/A	AC32M-CN1-313-BR	N/A	N/A
COMPRESSION NUT, 5/16-24, ONE PIECE, 316 SS		N/A	AC32M-CN1-313-303	AC32M-CN1-313-316	N/A
COMPRESSION NUT, 5/16-24, TWO PIECE, BRASS		N/A	AC32M-CN2-313-BR	N/A	N/A
COMPRESSION NUT, 5/16-24, TWO PIECE, 316 SS		N/A	AC32M-CN2-313-303	AC32M-CN2-313-316	N/A
COMPRESSION NUT, 7/16-24, ONE PIECE, BRASS		N/A	AC32M-CN1-437-BR	N/A	N/A
INJECTOR OPERATED AIR VALVE, LSL-1A HO SERIES	USE WITH: LSL-1A HO	N/A	AC1AHO-AV-125-303	AC1AHO-AV-125-316	N/A
INJECTOR OPERATED AIR VALVE, LINCOLN® INJECTORS	FOR USE ONLY WITH LINCOLN® INJECTORS	N/A	AC1AHO-AV-125-303-L	AC1AHO-AV-125-316-L	N/A
FEEDLINE BRUSH, 1/8-27 INLET	BRUSH APPLICATOR	N/A	ACLSL-BR-125I	ACLSL-BR-125I	N/A
LSL-32M STYLE CLOSURE PLUG, 5/16"-24, 303 SS	USE WITH: LSL-32 & LSL-43	N/A	AC32M-CP-303	AC32M-CP-316	N/A
CLOSURE PLUG, 1/8" NPTF, 303 SS	PLUG	N/A	AC32M-CP-125-303	AC32M-CP-125-316	N/A
CLOSURE PLUG, 3/8" NPTF, 303 SS	PLUG	N/A	AC1AHO-CP-375-303	AC1AHO-CP-375-316	N/A
CLOSURE PLUG 1/4", 303 SS	PLUG	N/A	AC32M-CP-250-303 SS	AC32M-CP-125-316 SS	N/A

^{*} LINCOLN® IS A REGISTERED TRADEMARK OF LINCOLN® INDUSTRIAL

SINGLE LINE INJECTOR SYSTEM ACCESSORIES (CONTINUED)

SPECTRUM ADJUSTMENT SLEEVES

STANDARD PACK: 5EACH						
MODEL NUMBER (5 PACK)	OUTPUT in3 (cc)	RATIO FROM MAXIMUM OUTPUT	SLEEVE COLOR			
N/A	0.015 (0.25)	10%	N/A			
LSL-1A-ADJ1	0.030 (0.50)	25%				
LSL-1A-ADJ2	0.045 (0.75)	50%				
LSL-1A-ADJ3	0.060 (1.00)	75%				
LSL-1A-ADJ4	0.075 (1.25)	100%				

STANDARD PACK: 5EACH			
MODEL NUMBER (5 PACK)	OUTPUT in3 (cc)	RATIO FROM MAXIMUM OUTPUT	SLEEVE COLOR
N/A	0.001 (.016)	10%	N/A
LSL-32-ADJ1	0.003 (.049)	25%	0
LSL-32-ADJ2	0.006 (.098)	50%	
LSL-32-ADJ3	0.009 (.14)	75%	
LSL-32-ADJ4	0.012 (.19)	100%	

SINGLE LINE INJECTOR SYSTEM ACCESSORIES (CONTINUED)

HIGH OUTPUT SPECTRUM ADJUSTMENT SLEEVES

STANDARD PACK: 5EACH			
MODEL NUMBER (5 PACK)	OUTPUT in3 (cc)	RATIO FROM MAXIMUM OUTPUT	SLEEVE COLOR
N/A	0.040 (.655)	10%	N/A
LSL-HO-ADJ1	0.075 (1.22)	25%	
LSL-HO-ADJ2	0.150 (2.45)	50%	
LSL-HO-ADJ3	0.225 (3.68)	75%	
LSL-HO-ADJ4	0.300 (4.91)	100%	

LSL-11 SERIES INJECTORS (HIGH OUTPUT) ORDERING INFORMATION & PART NUMBERS

ADJUSTABLE OUTPUT FROM .05 CU-IN TO .50 CU-IN
MAXIMUM/MINIMUM OPERATING PRESSURE 5000 PSI/1000 PSI
COMES STANDARD WITH 1/8 NPTF STAINLESS STEEL FILL FITTING
VINYL PROTECTIVE CAPS INCLUDED
RECHARGE PRESSURE = 800 PSI
TEMPERATURE RATED TO 350° STD

STANDARD PACK: 1 EACH					
PART DESCRIPTION	INLET	OUTLET	CARBON STEEL	303 STAINLESS	316 STAINLESS
SINGLE STANDALONE INJECTOR	1/2 NPTF (F)	1/4 NPSF (F)	LSL-11-000	LSL-11-303	LSL-11-316
LSL-11 SEAL KIT	N/A	N/A		LSL-11RK	
LSL-11 REBUILD KIT	N/A	N/A		LSL-11MRK	

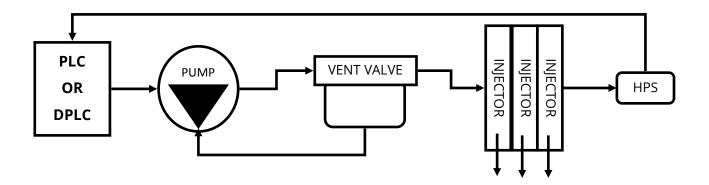




PUMP PACKAGE OPTIONS

DESIGNED TO SUPPORT INJECTOR APPLICATIONS

PUMPING UNIT—VENT VALVE—SOLENOID



PNEUMATIC PUMPING PACKAGES

OPTION 1: PNEUMATIC PUMP + PNEUMATIC VENT VALVE

OPTION 2: PNEUMATIC PUMP + ELECTRIC VENT VALVE



HYDRAULIC PUMPING PACKAGES

OPTION 1: HYDRAULIC PUMP + HYDRAULIC VENT VALVE

OPTION 2: HYDRAULIC PUMP + ELECTRIC VENT VALVE



BARREL PUMP PACKAGES (AVAILABLE IN 35LB PAIL, 120LB (PICTURED), & 400LB DRUM)

OPTION 1: BARREL PUMP W/ BUILT-IN VENT VALVE

OPTION 2: BARREL PUMP W/O INTERNAL VENT VALVE + ELECTRIC VENT VALVE (USE FOR PANEL MOUNT)

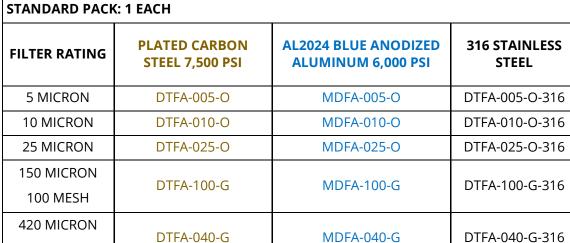
OPTION 3: BARREL PUMP W/O INTERNAL VENT VALVE + SOLENOID + PNEUMATIC VENT VALVE (USE FOR PANEL MOUNT)



FILTERS & REPLACEMENT ELEMENTS

DTFA-040-G









STANDARD PACK: 1 EACH			
PART NUMBER	PART NUMBER		
ALUMINUM ELEMENT BACK	316 SS ELEMENT BACK		
DT-EL-002-005MIC	DT-EL-002-005MIC-SS		
DT-EL-002-010MIC	DT-EL-002-010MIC-SS		
DT-EL-002-025MIC	DT-EL-002-025MIC-SS		
DT FL 002 100M	DT-EL-002-100M-SS		
D1-EL-002-100W	D1-EL-002-100WI-33		
DT EL 002 40M	DT EL 002 40M CC		
D1-EL-002-40M	DT-EL-002-40M-SS		
	PART NUMBER ALUMINUM ELEMENT BACK DT-EL-002-005MIC DT-EL-002-010MIC		

40 MESH





LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

VENT VALVES & ACCESSORIES

STANDARD PACK: 1 EACH				
PRODUCT DESCRIPTION	NOTES	CARBON STEEL	303 STAINLESS	316 STAINLESS
PNEUMATIC VENT VALVE		LSL-VV-000P	LSL-VV-303P	LSL-VV-316P
MIN AIR/MAX AIR PSI: 40/120PSI		L3L-VV-000F	L3L-VV-3U3F	L3L-VV-310F
PNEUMATIC VENT VALVE KIT				
MIN AIR/MAX AIR PSI: 40/120PSI	INLET 3/4" NPSF (F) OUTLET 3/4" NPSF (F)	LSL-VV-000P-SRV	LSL-VV-303P-SRV	LSL-VV-316P-SRV
(WITH 4000 PSI PRESSURE RELIEF VALVE	VENT PORT 1/4-18" NPSF (F)			
HYDRAULIC VENT VALVE	MAX LUBE PRESSURE 4000 PSI			
HYDRAULIC MIN/MAX PSI: 300/450PSI	INCLUDES MOUNTING BRACKET	LSL-VV000H	LSL-VV303H	LSL-VV316H
(NO SAFETY RELIEF VALVE INCLUDED)				
HYDRAULIC VENT VALVE KIT				
HYDRAULIC MIN/MAX PSI: 300/450PSI		LSL-VV-000H-SRV	LSL-VV-303H-SRV	LSL-VV-316H-SRV
(WITH 4000 PSI PRESSURE RELIEF VALVE				
SAFETY RELIEF VALVE	4000 PSI, 1/8 NPTF INLET	N/A	SRV-303-125-4000	SRV-316-125-4000
SAFETY RELIEF VALVE	4000 PSI, 1/4 NPTF INLET	N/A	SRV-303-250-4000	SRV-316-250-4000
VENT VALVE SEAL KIT—PNEUMATIC	REBUILD KIT		LSL-VVRK-P	
VENT VALVE SEAL KIT—HYDRAULIC	REBUILD KIT		LSL-VVRK-H	
VENT VALVE MOUNTING BRACKET	REPLACEMENT BRACKET	LSL-BRKT-KIT		
ELECTRIC VENT VALVE (ZONE VALVE)	24 VDC NORMALLY OPEN	LZV527680-NO-000	LZV527680-NO-303	LZV527680-NO-316
ELECTRIC VENT VALVE (ZONE VALVE)	24 VDC NORMALLY CLOSED	LZV527680-NC-000	LZV527680-NC-303	LZV527680-NC-316
ELECTRIC VENT VALVE (ZONE VALVE)	115 VAC NORMALLY OPEN	LZV527660-NO-000	LZV527660-NO-303	LZV527660-NO-316
ELECTRIC VENT VALVE (ZONE VALVE)	115 VAC NORMALLY CLOSED	LZV527660-NC-000	LZV527660-NC-303	LZV527660-NC-316
PRESSURE SENSOR, DC, 2, PNP	N/A	N/A	N/A	LP-HPS

PNEUMATIC/HYDRAULIC VENT VALVE
MAX SYSTEM PRESSURE: 4000 PSI



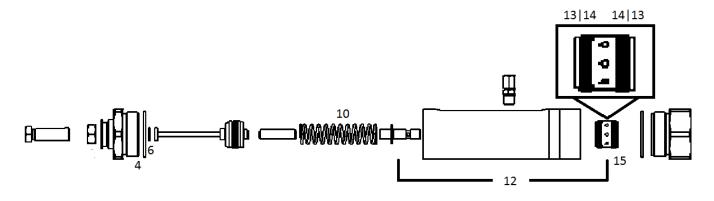


ELECTRIC VENT VALVE
(24 VDC OR 115 VAC)
MAX SYSTEM PRESSURE 3000 PSI



GENERAL INJECTOR TROUBLESHOOTING INSTRUCTIONS

TROUBLESHOOTING GUIDE			
PROBLEM	AREA AFFECTED	REMEDY	
	OUTPUT SET LOW	ADJUST TO PROPER SETTING AND LOCK WITH NUT	
INSUFFICIENT LUBRICANT FLOW TO BEARING	WORN OR DAMAGED SLIDE VALVE BODY O-RINGS	REPLACE O-RING AND BACKUP RINGS (14, 15)	
	PLUNGER SPRING BROKEN OR WORN	REPLACE SPRING (10)	
	OUTPUT SET HIGH	ADJUST TO PROPER SETTING AND LOCK WITH NUT	
TOO MUCH LUBRICANT FLOW TO BEARING	WORN OR DAMAGED UPPER SLIDE VALVE BODY O-RING	REPLACE O-RINGS AND BACKUP RINGS (14,15)	
	PLUNGER SPRING BROKEN	REPLACE SPRING (10)	
	WORN OR DAMAGED SLIDE VALVE ASSEMBLY	REPLACE SLIDE VALVE ASSEMBLY	
EXTERNAL LEAKAGE INJECTOR BODY	DAMAGED O-RINGS	REPLACE O-RINGS (4)	
LEAKAGE AT FITTING ASSEMBLY	LOOSE CAP	TIGHTEN CAP	
EXTERNAL LEAKAGE AT INDICATOR ROD	WORN OR DAMAGED INDICATOR PACKING	REPLACE PACKING (6)	



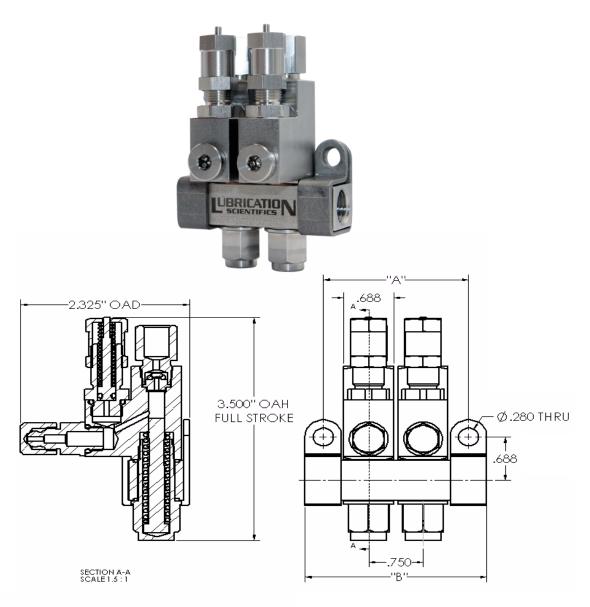
FUNCTION ILLUSTRATION & SPECIFICATIONS

INJECTORS OFFER A FLEXIBLE, COST

EFFECTIVE SOLUTION FOR DELIVERING MODERATE TO HIGH FLOWS OF LUBRICATION TO A LUBE POINT. EASY TO MAINTAIN, REPAIR, AND INSTALL AS WELL AS ADDING EXISTING SYSTEMS. INJECTORS ARE EXTERNALLY ADJUSTABLE AND WORK INDEPENDENTLY. CAN BE USED IN PARALLEL; IF ONE FAILS, THE **REST IN PARALLEL WILL CONTINUE TO EXTERNAL FLOW** SINGLE LINE, PARALLEL, FUNCTION. **ADJUSTABLE OUTPUTS ADJUSTMENT** WITH INDICATOR PINS KNOBS, NO **SPECIAL TOOLS NEEDED VENT VALVE CAP OFF OR ADD** ADDITIONAL **MANIFOLDS TO THE** SYSTEM WITH A SINGLE **PUMP** LINE **FEEDLINES FEEDLINES SUPPLY LINE** BEARING POINT BEARING POINT BEARING POINT BEARING POINT BEARING POINT

DIMENSIONS & MOUNTING INFORMATION

LSL-32 MAG STANDARD VENTING PRESSURE

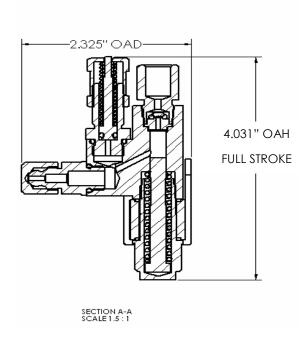


MANIFOLD CHART			
DESCRIPTION	DIMENSIONS		
DESCRIPTION	A	В	
1 BANK	1.250"	1.750"	
2 BANK	2.000"	2.500"	
3 BANK	2.750"	3.250"	
4 BANK	3.500"	4.000"	
5 BANK	4.250"	4.750"	
6 BANK	5.000"	5.500"	
7 BANK	5.750"	6.250"	
8 BANK	6.500"	7.000"	
9 BANK	7.250	7.750"	
10 BANK	8.000"	8.500"	

MIN. OUTPUT	MAX. OUTPUT	
0.001CI/0.016CC	0.012CI/0.196CC	

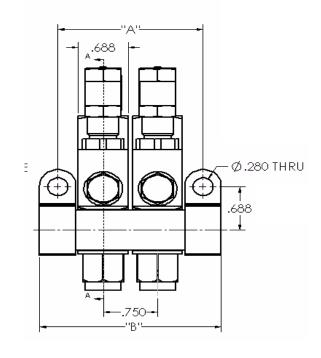
DIMENSIONS & MOUNTING INFORMATION

LSL-32 MAG HIGH VENTING PRESSURE



MANIFOLD CHART				
DESCRIPTION	DIMEN	ASIONS		
DESCRIPTION	A	В		
1 BANK	1.250"	1.750"		
2 BANK	2.000"	2.500"		
3 BANK	2.750"	3.250"		
4 BANK	3.500"	4.000"		
5 BANK	4.250"	4.750"		
6 BANK	5.000"	5.500"		
7 BANK	5.750"	6.250"		
8 BANK	6.500"	7.000"		
9 BANK	7.250	7.750"		
10 BANK	8.000"	8.500"		

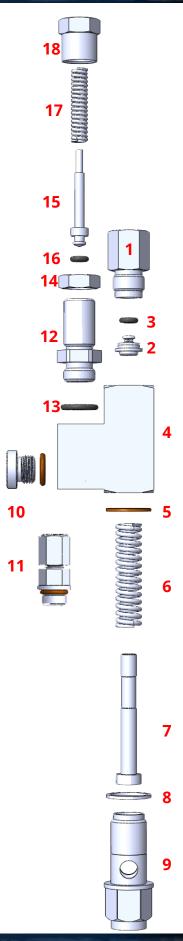




MIN. OUTPUT	MAX. OUTPUT
0.001CI/0.016CC	0.012CI/0.196CC

LSL-32 MAG PARTS BREAKDOWN

#	DESCRIPTION	PART NUMBER
1	OUTLET BODY (OPTIONS AVAILABLE) 1/8" NPSF (F) CRS 1/8" NPSF (F) SS 1/8" TUBE (STD) CRS 1/8" TUBE (STD) SS 1/8" NPTF (M) CRS 1/8" NPTF (M) SS 4MM TUBE CRS 4MM TUBE SS 6MM TUBE SS 6MM TUBE SS #4 JIC CRS #4JIC SS	LSL32-010-1-303 LSL32-010-1-316 LSL32-010-2-303 LSL32-010-2-316 LSL32-010-4-303 LSL32-010-6-303 LSL32-010-6-316 LSL32-010-6-303 LSL32-010-6-316 LSL32-010-7-303 LSL32-010-7-303
2	OUTLET CHECK	LSL32-007
3	O-RING FOR OUTLET CHECK	12261-0007
4	INJECTOR BODY	LSL32-001-303 (CRS) LSL32-001-316 (SS)
5	COPPER WASHER	LSL32-009-CPR
6	PRESSURE SPRING	LSL32-004
7	INJECTION PISTON	LSL32-002
8	CRS WASHER	LSL32-009-000
9	INLET BOLT	LSL32-008
10	A/O PLUG (STANDARD)	A-002-S
11	FILL FITTING (OPTIONAL)	L90471-ORS-XXX
12	ADJUSTMENT BODY	LSL32-013
13	ADJUSTMENT BODY O-RING	12661-0008
14	ADJUSTMENT LOCK NUT	LSL32-012
15	MEASURE CHAMBER PISTON	LSL32-006
16	MEASURE CHAMBER PISTON O-RING	12661-0007
17	MEASURE CHAMBER SPRING	LSL32-005
18	ADJUSTMENT CAP	LSL32-011



LSL-1 SERVICE INSTRUCTIONS

PRODUCT DESCRIPTION

THE LSL-1A INJECTOR IS DESIGNED FOR STANDARD OR HIGH OUTPUT APPLICATIONS UTILIZING OIL OR GREASE LUBRICANT. THIS INJECTOR CAN BE STANDALONE OR IN A MANIFOLD CONFIGURATION WITH AN 3/8 NPTF INLET CONNECTION AND A 1/8 NPSF OUTLET. THE LSL-1A IS AVAILABLE IN ZINC PLATED CARBON STEEL, 303 STAINLESS STEEL, AND 316 STAINLESS STEEL.



FOR: OIL AND GREASE

OUTPUT: STANDARD ADJUSTABLE OUTPUT FROM .008 CU-IN TO .080 CU-IN / .13 CC TO 1.31 CC| HIGH OUTPUT FROM .035 CU-IN TO .305 CU-IN / .57 CC TO 5 CC

PRESSURE: MAXIMUM/MINIMUM OPERATING PRESSURE 5000 PSI/1850 PSI - 344

BAR/128 BAR

OUTPUT ADJUSTMENT

FACTORY OUTPUT IS SET AT, MAX OUTPUT. FOR MINIMUM OUTPUT, TURN THE HEX NUT CLOCKWISE INTO THE INJECTOR UNTIL IT BOTTOMS OUT (HAND TIGHT ONLY). FOR ACCURATE OUTPUT ADJUSTMENT, ROTATE THE HEX SCREW CLOCKWISE UNTIL IT BOTTOMS OUT, THEN ROTATE UNTIL THE DESIRED OUTPUT IS REACHED.

.008 CU-IN TO .080 CU-IN / .13 CC TO 1.31 CC = 10 FULL TURNS

.035 CU-IN TO .305 CU-IN / .57 CC TO 5 CC = **12.75 FULL TURNS**

1 FULL TURN = .009 CU-IN / .15 CC (STANDARD OUTPUT) | .49 CU-IN / 8.02 CC (HIGH OUTPUT)



LSL-1 DISASSEMBLY INSTRUCTIONS

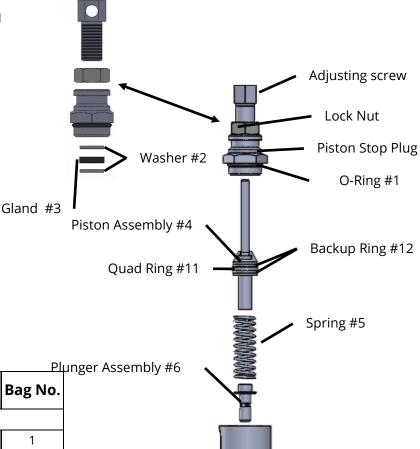
STEP 1: Remove piston stop plug from top of injector body. Remove its contents (two washers & 1 gland), piston assembly, spring, and plunger assembly.

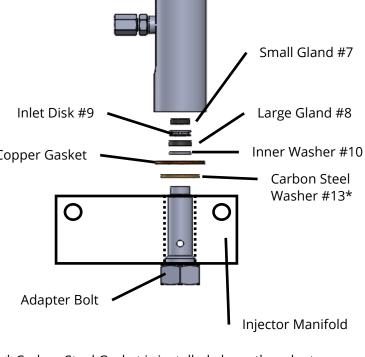
STEP 2: Remove adapter bolt from manifold and injector body. Remove injector internal, by first turning injector upside down. Push out Plunger assembly of with a long, thin object from inlet side of injector. It should fall out towards adjustment adapter.

STEP 3: Remove inlet disk, small and large glands, and inner washer from injector body.

ORDERING SERVICE KITS		
LSL-1RK SEAL KIT		
LSL-1MRK	MAJOR REBUILD KIT	

				P
Item No.	Description	Qty.	Part No.	Bag No.
	LSL	-1MR	K	
1	O-RING	1	12661-0022	1
2	WASHER	2	LSL85497-009	1
3	GLAND	1	LSL85497-006	1
4	PISTON ASSEMBLY	1	LSL81713-011A	2
5	SPRING	1	LSL81713-013	3
6	PLUNGER ASSEMBLY	1	LSL81713-004A	3
7	SMALL GLAND	1	LSL81713-010	4
8	LARGE GLAND	1	LSL81713-014	4
9	INLET DISK	1	LSL81713-009	4
10	INNER WASHER	1	LSL81713-007	4
13	CARBON STEEL WASHER	1	LSL81713-019	4
LSL-1RK				
11	QUAD RING	1	LSL81713-012Q	
12	BACKUP RING	2	LSL81713- 012BR	
7	SMALL GLAND	1	LSL81713-010	
8	LARGE GLAND	1	LSL81713-014	
3	GLAND	1	LSL85497-006	
1	O-RING	1	12661-0022	





* Carbon Steel Gasket is installed above the adapter bolt and below injector manifold

LSL-1A SERVICE INSTRUCTIONS

REASSEMBLY INSTRUCTIONS

STEP 1: Clean all injector components and inspect for wear. Replace parts and lube O-rings as necessary.

STEP 2: Install plunger assembly and spring into injector body. Install backup rings and quad ring onto piston assembly and guide piston assembly into the spring, as shown below.

STEP 3: Install O-Ring, gland, & two washers as shown to piston stop plug and install to injector body as shown. Install lock nut and adjustment screw.

STEP 4: Lube and insert small gland, inlet disk, large gland, and washer into bottom of injector body as shown.

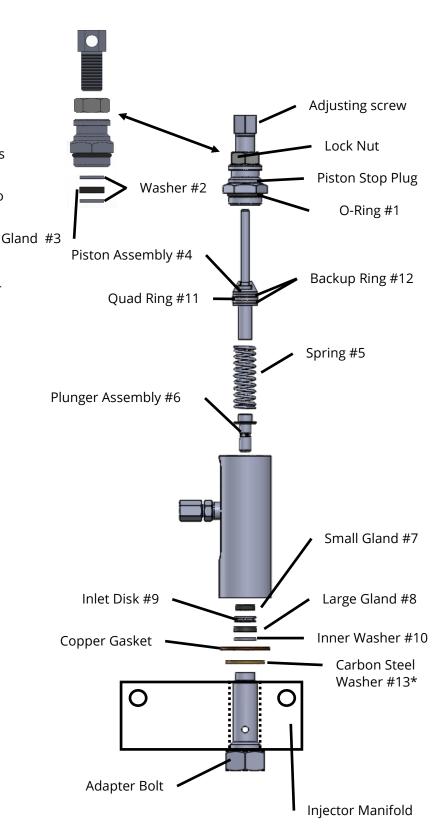
STEP 5: Place carbon steel gasket over adapter bolt and insert into manifold followed by copper gasket and install into injector body as shown.

ADJUSTMENT INSTRUCTIONS

Loosen lock nut

Turn adjustment screw clockwise until it bottoms out. This will output 0.01 cubic inches of lubricant. One full turn will output an additional .01 cubic inches of lubricant maxing out at 0.1 cubic inches.

Standard Output Range = .01 CU-IN—.1 CU-IN
High Output Range = .015 CU-IN—.31 CU-IN
When desired output is achieved, secure the



* Carbon Steel Gasket is installed above adapter bolt and below injector manifold

BULLETIN LSM012 LAST REVISED: 04/24/2019 27

LSL-11 SERVICE INSTRUCTIONS

PRODUCT DESCRIPTION

THE LSL-11 INJECTOR IS DESIGNED FOR HIGH OUTPUT APPLICATIONS UTILIZING OIL OR GREASE LUBRICANT. THIS IS A STANDALONE INJECTOR WITH AN 1/2 NPTF INLET CONNECTION AND A 1/4 NPSF OUTLET. THE LSL-11 IS AVAILABLE IN ZINC PLATED CARBON STEEL, 303 STAINLESS STEEL, AND 316 STAINLESS STEEL.

SPECIFICATIONS

FOR: OIL AND GREASE

OUTPUT: ADJUSTABLE OUTPUT FROM .05 CU-IN TO .50 CU-IN / .82 CC TO 8.20 CC

PRESSURE: MAXIMUM/MINIMUM OPERATING PRESSURE 5000 PSI/1000 PSI / 345

BAR/69 BAR

OUTPUT ADJUSTMENT

FACTORY OUTPUT IS SET AT .50 CU-IN, MAX OUTPUT. FOR MINIMUM OUTPUT OF .05 CU-IN, TURN THE HEX NUT CLOCKWISE INTO THE INJECTOR UNTIL IT BOTTOMS OUT (HAND TIGHT ONLY). FOR ACCURATE OUTPUT ADJUSTMENT, ROTATE THE HEX SCREW CLOCKWISE UNTIL IT BOTTOMS OUT, THEN ROTATE UNTIL THE DESIRED OUTPUT IS REACHED.

.05 CU-IN TO .50 CU-IN / .82 CC TO 8.20 CC = 12.75 FULL TURNS

1 FULL TURN = APPROXIMATELY 0.035 CU-IN / .57 CC



LSL-11 DISASSEMBLY INSTRUCTIONS

STEP 1: Remove adjustment adapter from top of injector body (3). Remove its contents; piston assembly, spring, and spacer.

STEP 2: Remove inlet adapter from bottom of injector body (17). Remove slide valve (12), by first turning the injector upside down. Push out upper portion of assembly with a long, thin object from inlet side of injector. It should fall out towards adjustment adapter.

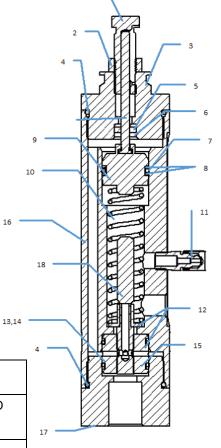
STEP 3: Remove valve body by lightly tapping a wooded dowel through top of injector body making contact with valve body. Dowel must be no bigger than 1/2" in diameter.

STEP 4: To remove indicator stem packing from adjustment adapter, remove adjustment screw from adjustment adapter. Use a hard object to gently push through screw hole and out through bottom of adapter.

ORDERING	SERVICE KITS
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LSL-11RK	SEAL KIT—INCLUDES HIGHLIGHTED ITEMS EXCEPT ITEM #12
LSL-11MRK	REBUILD KIT—INCLUDES ALL HIGHLIGHTED ITEMS

Item No.	Description	Qty.	Part No.
1	Adjusting Screw	1	LSL85497-001-XXX
2	Lock Nut	1	LSL85497-010
3	Adjustment Adapter	1	LSL85497-003-XXX
4	O-ring (viton)	2	LSL85497-004
5	Washer	1	LSL85497-009
6	Packing (SKF)	1	LSL85497-006
7	Quad Ring (Quniton)	1	LSL85497-007Q
8	Back-up ring (teflon)	2	LSL85497-007BR
9	Piston Assembly	1	LSL85497-008-QA
10	Plunger Spring	1	LDL85497-013
11	Fitting Assembly	1	L90471-XXX
12	Slide Valve Ass'y	1	LSL85497-025A
13	Back-up ring (teflon)	2	LSL85497-005BR
14	Quad Ring (Quniton)	2	LSL85497-005Q
15	Valve Body	1	LSL85497-014
16	Injector Body	1	LSL85497-015
17	Inlet Adapter	1	LSL85497-016
18	Spacer	1	LSL85497-017



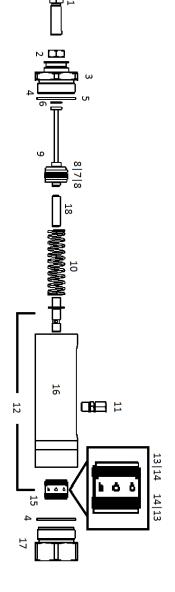
NOTE: "XXX" SPECIFIES MATERIAL OF THE INJECTOR FOR:

CRS USE: -000 303 SS USE: -303 316 SS USE: -316

EXAMPLE:

FOR 303 SS ADJUSTMENT SCREW

USE: LSL85497-001-303



LSL-11 SERVICE INSTRUCTIONS

REASSEMBLY INSTRUCTIONS

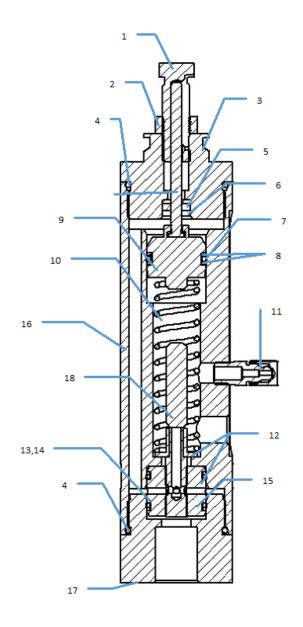
STEP 1: Clean all injector components and inspect for wear. Replace parts and O-rings as necessary.

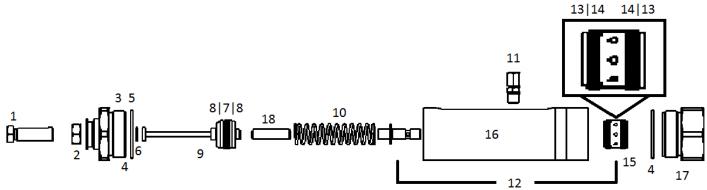
STEP 2: Install O-rings and backup rings on outside of valve body (13 & 14). Apply grease to seals and valve body and insert valve body into inlet adapter.

STEP 3: Install O-ring onto inlet adapter (item #4) and install inlet adapter into injector body. Hand tight to ensure everything seats properly and tighten.

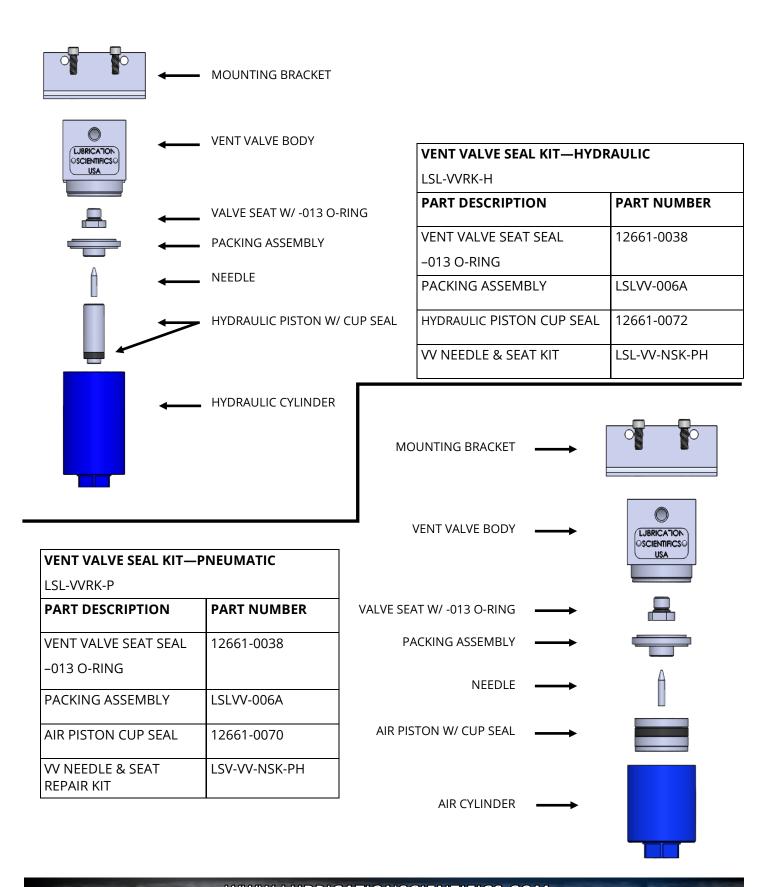
STEP 4: Apply grease to slide valve assembly once reassembled (12) and insert through top of injector body into valve body. Apply grease to piston bore in injector body. Drop in the spring and spacer inside the spring.

STEP 5: Install the O-ring on piston assembly and apply grease to piston, O-Ring, and indicator rod. Insert into injector body. Install O ring on adjustment adapter (3), install washer, and packing. Apply grease to the O-ring on adjustment adapter and slide over preassembled adapter into injector body. Hand tight to make sure everything is properly seated. Tighten with a wrench.





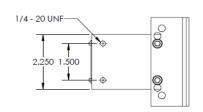
VENT VALVES REBUILD DIAGRAM & KIT



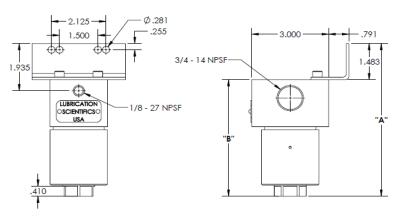
BULLETIN LSM012 LAST REVISED: 04/24/2019 31

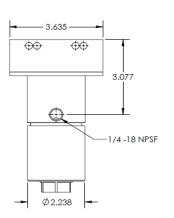
VENT VALVE DIMENSIONS

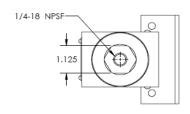
PNEUMATIC & HYDRAULIC VENT VALVE DIMENSIONS



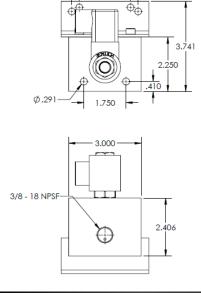
PART NUMBER	TYPE	DIM. "A"	DIM "B"
LSL-VV-XXXP	PNEUMATIC	6.250"	4.750"
LSL-VV-XXXH	HYDRAULIC	7.750"	6.250"



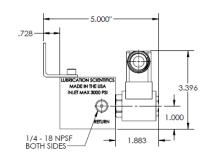


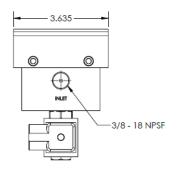


3,500 PSI ELECTRIC VENT VALVE DIMENSIONS



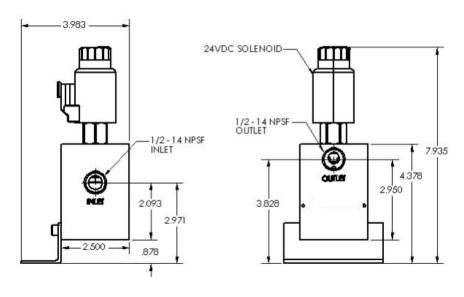
2.750

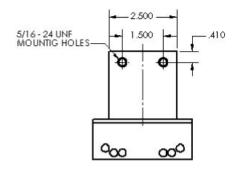


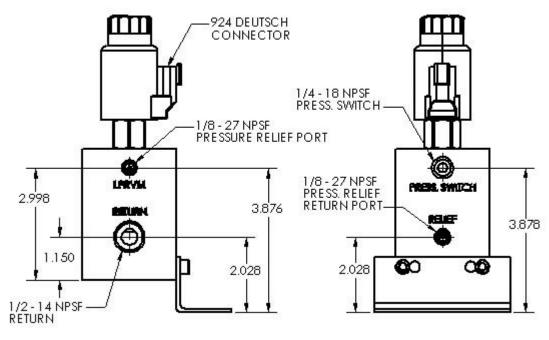


VENT VALVE DIMENSIONS

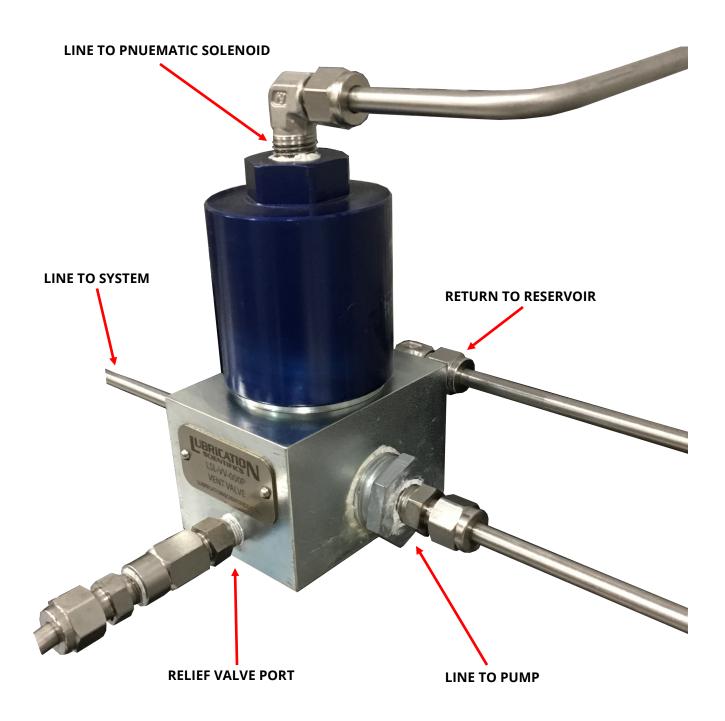
5,000 PSI ELECTRIC VENT VALVE DIMENSIONS







PNUEMATIC VENT VALVE INSTALLATION LAYOUT



COMPETITOR'S PART NUMBER INTERCHANGE LINCOLN®

LINCOLN® PART NUM-	LUBRICATION SCIENTIFICS	PRODUCT DESCRIPTION
83336-1	LSL-32M-M1-A2-303	LSL-32M SERIES, 1 INJECTOR ASSY(W/MFLD) 303 SS
12511	AC32M-CP-125-303	CLOSURE PLUG, 1/8" NPTF, 303 SS
12698	AC32M-CP-303	LSL-32M STYLE CLOSURE PLUG, 5/16"-24, 303 SS
14988	AC32M-A1	LSL 32M STYLE OUTLET CONNECTOR 1/8" NPSF FEMALE
14991	AC32M-A4	LSL 32M STYLE OUTLET CONNECTOR 1/8" NPTF MALE
66260	AC32M-CN1-313-BR	COMPRESSION NUT, 5/16-24, ONE PIECE, BRASS
66713	AC32M-CN1-437-BR	COMPRESSION NUT, 7/16-24, ONE PIECE, BRASS
67007	AC32M-CP-250-303 SS	CLOSURE PLUG 1/4", 303 SS CLOSURE PLUG, 3/8" NPTF, 303 SS
67044 68483	AC1AHO-CP-375-303 LSL32M-CAPV	LSL 32M STYLE VINYL CAP
68874	ACLSL-BR-125I	FEEDLINE BRUSH, 1/8-27 INLET
81646	LSL-1A-CPK	INIECTOR CONNECTOR TUBE 1/8" NPTF MALE, LSL-1A & UP
81713	LSL-1A-000	LSL-1A, 1 REPLACEMENT INJECTOR CRS
82272	AC1AHO-AV-125-303	INJECTOR OPERATED AIR VALVE, LSL-1A HO SERIES
83337	LSL-32M-A2-303	LSL-32M SERIES, 1 REPLACEMENT INJECTOR 303 SS
83338	LSL-32M-SA2-303	LSL-32M SERIES, 1 INJECTOR ASSY(STAND ALONE) 303 SS
83660	LSL-43M-A6-303	LSL-43M SERIES, 1 REPLACEMENT INJECTOR 303 SS
83730	LSL-11-CAPV	LSL-11 VINYL CAP
83748	LSL-1A-O-000	LSL-44, 1 REPLACEMENT INJECTOR CRS, OIL
83924	AC32M-CN2-313-BR	COMPRESSION NUT, 5/16-24, TWO PIECE, BRASS
83948	LSL-VV-000P	PNEUMATIC VENT VALVE, NO PRESSURE RELIEF VALVE INCLUDED
83948	LSL-VV-000P-SRV	PNEUMATIC VENT VALVE, 4000 PSI PRESSURE RELIEF VALVE INCLUDED
84200	AC32M-A3	LSL 32M STYLE OUTLET CONNECTOR 1/4" O.D. TUBE
84776	LSL-1A-316	LSL-1A, 1 INJECTOR, REPLACEMENT, 316 SS
84980	LSL-VV000H	HYDRAULIC VENT VALVE, NO PRESSURE RELIEF VALVE INCLUDED
84980	LSL-VV-000H-SRV	HYDRAULIC VENT VALVE, 4000 PSI PRESSURE RELIEF VALVE INCLUDED
85497	LSL-11-000	LSL-11 STANDALONE INJECTOR CRS
85771	LSL-1A-000-R5	LSL-1 MED OUTPUT SQ, 1 REPLACEMENT INJECTOR
85772	LSL-1-000-M5	LSL-1 MED OUTPUT SQ, 1 INJECTOR, STAND ALONE
85781	LSL-1A-000-HO	LSL-A1-HO, 1 REPLACEMENT INJECTOR
85782	LSL-1-000-HO	LSL-A1-HO, 1 INJECTOR, STAND ALONE
239351	LSL-M1A-316	LSL-1A, 1 INJECTOR ASSY (W/MFLD) 316 SS
239352 239353	LSL-M2A-316 LSL-M3A-316	LSL-1A, 2 INJECTOR ASSY (W/MFLD) 316 SS LSL-1A, 3 INJECTOR ASSY (W/MFLD) 316 SS
239353	LSL-M3A-316 LSL-M4A-316	LSL-1A, 3 INJECTOR ASSY (W/MFLD) 316 SS LSL-1A, 4 INJECTOR ASSY (W/MFLD) 316 SS
239355	LSL-M5A-316	LSL-1A, 4 INJECTOR ASSY (W/MFLD) 316 SS
249281	AC32M-A5	LSL 32M STYLE OUTLET CONNECTOR 4MM TUBE
249282	AC32M-A6	LSL 32M STYLE OUTLET CONNECTOR 6MM TUBE
273089	LSL-1A-CAPV	LSL-1A VINYL CAP
12511-9	AC32M-CP-125-316	CLOSURE PLUG, 1/8" NPTF, 316 SS
12698-9	AC32M-CP-316	LSL-32M STYLE CLOSURE PLUG, 5/16"-24, 316 SS
66260-9	AC32M-CN1-313-SS	COMPRESSION NUT, 5/16-24, ONE PIECE, 316 SS
67007-9	AC32M-CP-125-316 SS	CLOSURE PLUG 1/4", 316 SS
81713A	LSL-1-000	LSL-1A, 1 INJECTOR NO MFLD CRS
81770-1	LSL-M1A-000	LSL-1A, 1 INJECTOR ASSY (W/MFLD) CRS
81770-2 81770-3	LSL-M2A-000 LSL-M3A-000	LSL-1A, 2 INJECTOR ASSY (W/MFLD) CRS LSL-1A, 3 INJECTOR ASSY (W/MFLD) CRS
81770-4	LSL-M4A-000	LSL-1A, 4 INJECTOR ASSY (W/MFLD) CRS
81770-5	LSL-M5A-000	LSL-1A, 4 INJECTOR ASSY (W/MFLD) CRS
81770-6	LSL-M6A-000	LSL-1A, 6 INJECTOR ASSY (W/MFLD) CRS
83336-2	LSL-32M-M2-A2-303	LSL-32M SERIES, 2 INJECTOR ASSY(W/MFLD) 303 SS
83336-3	LSL-32M-M3-A2-303	LSL-32M SERIES, 3 INJECTOR ASSY(W/MFLD) 303 SS
83336-4	LSL-32M-M4-A2-303	LSL-32M SERIES, 4 INJECTOR ASSY(W/MFLD) 303 SS
83336HV	LSL-32MH-A2-303	LSL-32M HP VENTING, 1 INJECTOR ASSY (STAND ALONE) 303 SS
83336HV-1	LSL-32MH-M1-A2-303	LSL-32M HP VENTING, 1 INJECTOR ASSY (W/MFLD) 303 SS
83336HV-10	LSL-32MH-M10-A2-303	LSL-32M HP VENTING, 10 INJECTOR ASSY (W/MFLD) 303 SS
83336HV-2	LSL-32MH-M2-A2-303	LSL-32M HP VENTING, 2 INJECTOR ASSY (W/MFLD) 303 SS
83336HV-3		LSL-32M HP VENTING, 3 INJECTOR ASSY (W/MFLD) 303 SS
	LSL-32MH-M3-A2-303	
83336HV-4	LSL-32MH-M3-A2-303 LSL-32MH-M4-A2-303	LSL-32M HP VENTING, 4 INJECTOR ASSY (W/MFLD) 303 SS
83336HV-4 83336HV-5		
	LSL-32MH-M4-A2-303	LSL-32M HP VENTING, 4 INJECTOR ASSY (W/MFLD) 303 SS LSL-32M HP VENTING, 5 INJECTOR ASSY (W/MFLD) 303 SS
83336HV-5	LSL-32MH-M4-A2-303 LSL-32MH-M5-A2-303	LSL-32M HP VENTING, 4 INJECTOR ASSY (W/MFLD) 303 SS
83336HV-5 83336HV-6	LSL-32MH-M4-A2-303 LSL-32MH-M5-A2-303 LSL-32MH-M6-A2-303	LSL-32M HP VENTING, 4 INJECTOR ASSY (W/MFLD) 303 SS LSL-32M HP VENTING, 5 INJECTOR ASSY (W/MFLD) 303 SS LSL-32M HP VENTING, 6 INJECTOR ASSY (W/MFLD) 303 SS

^{*} LINCOLN® IS A REGISTERED TRADEMARK OF LINCOLN® INDUSTRIAL

COMPETITOR'S PART NUMBER INTERCHANGE (CONTINUED) LINCOLN®

LINCOLN® PART NUMBER	LUBRICATION SCIENTIFICS PART	PRODUCT DESCRIPTION
83337HV	LSL-32MH-SA2-303	LSL-32M HP VENTING, 1 REPLACEMENT INJECTOR 303 SS
83661-1	LSL-43M-M1-A6-303	LSL-43M SERIES, 1 INJECTOR ASSY(W/MFLD) 303 SS
83661-2	LSL-43M-M2-A6-303	LSL-43M SERIES, 2 INJECTOR ASSY(W/MFLD) 303 SS
83661-3	LSL-43M-M3-A6-303	LSL-43M SERIES, 3 INJECTOR ASSY(W/MFLD) 303 SS
83661-4	LSL-43M-M4-A6-303	LSL-43M SERIES, 4 INJECTOR ASSY(W/MFLD) 303 SS
83724-1	LSL-32M-M1-A2-316	LSL-32M SERIES, 1 INJECTOR ASSY(W/MFLD) 316 SS
83724-2	LSL-32M-M2-A2-316	LSL-32M SERIES, 2 INJECTOR ASSY(W/MFLD) 316 SS
83724-3	LSL-32M-M3-A2-316	LSL-32M SERIES, 3 INJECTOR ASSY(W/MFLD) 316 SS
83724-4	LSL-32M-M4-A2-316	LSL-32M SERIES, 4 INJECTOR ASSY(W/MFLD) 316 SS
83724-9	LSL-32M-A2-316	LSL-32M SERIES, 1 REPLACEMENT INJECTOR 316 SS
83749-1	LSL-M1A-O-000	LSL-44, 1 INJECTOR ASSY (W/MFLD) CRS, OIL
83749-2	LSL-M2A-O-000	LSL-44, 2 INJECTOR ASSY (W/MFLD) CRS, OIL
83749-3	LSL-M3A-O-000	LSL-44, 3 INJECTOR ASSY (W/MFLD) CRS, OIL
83749-4	LSL-M4A-O-000	LSL-44, 4 INJECTOR ASSY (W/MFLD) CRS, OIL
83749-5	LSL-M5A-0-000	LSL-44, 5 INJECTOR ASSY (W/MFLD) CRS, OIL
83924-9	AC32M-CN2-313-SS	COMPRESSION NUT, 5/16-24, TWO PIECE, 316 SS
85353-1	LSL-32M-M1-MA6-303	LSL-32M, 1 INJECTOR ASSY (W/MFLD), GREASE, IN 1/8BSPP/OUT 6MM, 303
85353-2	LSL-32M-M2-MA6-303	LSL-32M, 2 INJECTOR ASSY (W/MFLD), GREASE, IN 1/8BSPP/OUT 6MM, 303
85353-3	LSL-32M-M3-MA6-303	LSL-32M, 3 INJECTOR ASSY (W/MFLD), GREASE, IN 1/8BSPP/OUT 6MM, 303
85353-4	LSL-32M-M4-MA6-303	LSL-32M, 4 INJECTOR ASSY (W/MFLD), GREASE, IN 1/8BSPP/OUT 6MM, 303
85770-1	LSL-M1A-000-R5	LSL-1 MED OUTPUT SQ, 1 INJECTOR ASSY (W/MFLD) CRS
85770-2	LSL-M2A-000-R5	LSL-1 MED OUTPUT SQ, 2 INJECTOR ASSY (W/MFLD) CRS
85770-3	LSL-M3A-000-R5	LSL-1 MED OUTPUT SQ, 3 INJECTOR ASSY (W/MFLD) CRS
85770-4	LSL-M4A-000-R5	LSL-1 MED OUTPUT SQ, 4 INJECTOR ASSY (W/MFLD) CRS
85770-5	LSL-M5A-000-R5	LSL-1 MED OUTPUT SQ, 5 INJECTOR ASSY (W/MFLD) CRS
85770-6	LSL-M6A-000-R5	LSL-1 MED OUTPUT SQ, 6 INJECTOR ASSY (W/MFLD) CRS
85780-1	LSL-M1A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
85780-2	LSL-M2A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
85780-3	LSL-M3A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
85780-4	LSL-M4A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
85780-5	LSL-M5A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
85780-6	LSL-M6A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
N/A	LSL-32M-MA6-303	LSL-32M SERIES, 1 REPLACEMENT INJECTOR 303 SS, 6MM OUTLET

COMPETITOR'S PART NUMBER INTERCHANGE GRACO

GRACO PART NUMBER	LUBRICATION SCIENTIFICS PART NUMBER	PRODUCT DESCRIPTION
114901	LSL-M1A-000	LSL-1A, 1 INJECTOR ASSY (W/MFLD) CRS
114902	LSL-M2A-000	LSL-1A, 2 INJECTOR ASSY (W/MFLD) CRS
114903	LSL-M3A-000	LSL-1A, 3 INJECTOR ASSY (W/MFLD) CRS
114905	LSL-M4A-000	LSL-1A, 4 INJECTOR ASSY (W/MFLD) CRS
114905	LSL-M5A-000	LSL-1A, 5 INJECTOR ASSY (W/MFLD) CRS
114906	LSL-M6A-000	LSL-1A, 6 INJECTOR ASSY (W/MFLD) CRS
114909	LSL-1-000	LSL-1A, 1 INJECTOR NO MFLD CRS
114911	LSL-M1-000	LSL-1A, 1 BANK, BARE INJECTOR MANIFOLDS CRS
114912	LSL-M2-000	LSL-1A, 2 BANK, BARE INJECTOR MANIFOLDS CRS
114913	LSL-M3-000	LSL-1A, 3 BANK, BARE INJECTOR MANIFOLDS CRS
114914	LSL-M4-000	LSL-1A, 4 BANK, BARE INJECTOR MANIFOLDS CRS
114915	LSL-M5-000	LSL-1A, 5 BANK, BARE INJECTOR MANIFOLDS CRS
114916	LSL-11RK	LSL-11 SEAL KIT
118206	LSL-M6-000	LSL-1A, 6 BANK, BARE INJECTOR MANIFOLDS CRS
24E241	LSL-43M-M1-A6-303	LSL-43M SERIES, 1 INJECTOR ASSY(W/MFLD) 303 SS
24E242	LSL-43M-M2-A6-303	LSL-43M SERIES, 2 INJECTOR ASSY(W/MFLD) 303 SS
24E243	LSL-43M-M3-A6-303	LSL-43M SERIES, 3 INJECTOR ASSY(W/MFLD) 303 SS
24E244	LSL-43M-M4-A6-303	LSL-43M SERIES, 4 INJECTOR ASSY(W/MFLD) 303 SS
24E245	LSL-43M-A6-303	LSL-43M SERIES, 1 REPLACEMENT INJECTOR 303 SS
241572	LSL-VV-000P	PNEUMATIC VENT VALVE, NO PRESSURE RELIEF VALVE INCLUDED
241572	LSL-VV-000P-SRV	PNEUMATIC VENT VALVE, 4000 PSI PRESSURE RELIEF VALVE INCLUDED
243170	LSL-VV000H	HYDRAULIC VENT VALVE, NO PRESSURE RELIEF VALVE INCLUDED
243170	LSL-VV-000H-SRV	HYDRAULIC VENT VALVE, 4000 PSI PRESSURE RELIEF VALVE INCLUDED

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COMPETITOR'S PART NUMBER INTERCHANGE (CONTINUED) GRACO

GRACO PART NUMBER	LUBRICATION SCIENTIFICS PART NUMBER	PRODUCT DESCRIPTION
N/A	ACLSL-BR-125I	FEEDLINE BRUSH, 1/8-27 INLET
17B169	AC32M-A4	LSL 32 STYLE OUTLET CONNECTOR 1/8" NPTF MALE 303 SS
17B781	AC32M-A1	LSL 32 STYLE OUTLET CONNECTOR 1/8" NPSF FEMALE 303 SS
17B783	AC32M-CP-250-303 SS	CLOSURE PLUG 1/4", 303 SS
17B785	LSL32M-CAPV	LSL 32 STYLE VINYL CAP
17B880	AC32M-A3	LSL 32 STYLE OUTLET CONNECTOR 1/4" O.D. TUBE 303 SS
17D401 17D402	LSL-M1-303	LSL-1A, 1 BANK, BARE INJECTOR MANIFOLDS 303 SS
17D402 17D403	LSL-M2-303 LSL-M3-303	LSL-1A, 2 BANK, BARE INJECTOR MANIFOLDS 303 SS LSL-1A. 3 BANK. BARE INJECTOR MANIFOLDS 303 SS
17D403	LSL-M4-303	LSL-1A, 4 BANK, BARE INJECTOR MANIFOLDS 303 SS
17D405	LSL-M5-303	LSL-1A, 5 BANK, BARE INJECTOR MANIFOLDS 303 SS
17D906	LSL-M6-303	LSL-1A, 6 BANK, BARE INJECTOR MANIFOLDS 303 SS
24A918	LSL-11-000	LSL-11 INJECTOR
24A919	LSL-32M-SA2-303	LSL-32M SERIES, 1 INJECTOR ASSY(STAND ALONE) 303 SS
24A920	LSL-32M-A2-303	LSL-32M SERIES, 1 REPLACEMENT INJECTOR 303 SS
24A921	LSL-32M-M1-A2-303	LSL-32M SERIES, 1 INJECTOR ASSY(W/MFLD) 303 SS
24A922	LSL-32M-M2-A2-303	LSL-32M SERIES, 2 INJECTOR ASSY(W/MFLD) 303 SS
24A923	LSL-32M-M3-A2-303	LSL-32M SERIES, 3 INJECTOR ASSY(W/MFLD) 303 SS
24A924 24B395	LSL-32M-M4-A2-303	LSL-32M SERIES, 4 INJECTOR ASSY(W/MFLD) 303 SS LSL-11 REBUILD KIT
24B395 24E390	LSL-11MRK LSL-32M-A2-316	LSL-32M SERIES. 1 REPLACEMENT INIECTOR 316 SS
24E390 24E391	LSL-32M-M1-A2-316	LSL-32M SERIES, 1 INJECTOR ASSY(W/MFLD) 316 SS
24E392	LSL-32M-M2-A2-316	LSL-32M SERIES, 2 INJECTOR ASSY(W/MFLD) 316 SS
24E393	LSL-32M-M3-A2-316	LSL-32M SERIES, 3 INJECTOR ASSY(W/MFLD) 316 SS
24E394	LSL-32M-M4-A2-316	LSL-32M SERIES, 4 INJECTOR ASSY(W/MFLD) 316 SS
24F507	LSL-32M-MA6-303	LSL-32, STANDALONE INJECTOR, GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F508	LSL-32M-MA6-303	LSL-32, REPLACEMENT INJECTOR, GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F509	LSL-32M-M1-MA6-303	LSL-32, 1 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F510	LSL-32M-M2-MA6-303	LSL-32, 2 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F511	LSL-32M-M3-MA6-303	LSL-32, 3 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F512	LSL-32M-M4-MA6-303	LSL-32, 4 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F543	LSL-43M-A6-303	LSL-43M SERIES, 1 REPLACEMENT INJECTOR, 6MM METRIC,303 SS
24F544	LSL-43M-M1-MA6-303	LSL-43M SERIES, 1 INJECTOR ASSY(W/MFLD), 6MM METRIC, 303 SS
24F545 24F546	LSL-43M-M2-MA6-303 LSL-43M-M3-MA6-303	LSL-43M SERIES, 2 INJECTOR ASSY(W/MFLD), 6MM METRIC, 303 SS LSL-43M SERIES, 3 INJECTOR ASSY(W/MFLD), 6MM METRIC,303 SS
24F547	LSL-43M-M4-MA6-303	LSL-43M SERIES, 4 INJECTOR ASSY(W/MFLD), 6MM METRIC, 303 SS
24F550	LSL-32M-M1-MA6-303	LSL-32, STANDALONE INJECTOR, GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F551	LSL-32M-M1-MA6-303	LSL-32, 1 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F551	LSL-32M-MA6-303	LSL-32, REPLACEMENT INJECTOR, GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F552	LSL-32M-M2-MA6-303	LSL-32, 2 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F553	LSL-32M-M3-MA6-303	LSL-32, 3 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F554	LSL-32M-M4-MA6-303	LSL-32, 4 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC OUTLET, BSPP INLET, 303 SS
24F555	AC32M-A5	LSL 32 STYLE OUTLET CONNECTOR 4MM TUBE 303 SS
24F556	AC32M-A6	LSL 32 STYLE OUTLET CONNECTOR 6MM TUBE 303 SS
24F943		LSL 32 STYLE OUTLET CONNECTOR 1/8" O.D. TUBE 303 SS
24W302	LSL-32M-M5-A2-303	LSL-33, 5 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W303	LSL-32M-M5-MA6-303	LSL-33, 5 INJECTOR ASSY (W/MFLD), GREASE, METRIC PORTS 303 SS
24W304 24W305	LSL-32M-M5-A2-303 LSL-32M-M5-MA6-303	LSL-33, 5 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS LSL-33, 5 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC PORTS 303 SS
24W305 24W401	LSL-32M-M5-MA6-303 LSL-32M-M1-A2-303	LSL-33, 5 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC PORTS 303 SS LSL-33, 1 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W401 24W402	LSL-32M-M2-A2-303	LSL-33, 2 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W403	LSL-32M-M3-A2-303	LSL-33, 3 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W404	LSL-32M-M4-A2-303	LSL-33, 4 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W405	LSL-32M-M6-A2-303	LSL-33, 6 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W483	LSL-32M-A2-303	LSL-33, REPLACEMENT INJECTOR, GREASE, 1/8 NPSF, 303 SS
24W485	LSL-32M-A2-303	LSL-33, REPLACEMENT INJECTOR, GREASE, 1/8 NPSF, 303 SS
24W486	LSL-32M-MA6-303	LSL-33, REPLACEMENT INJECTOR, GREASE, 6MM METRIC PORTS, 303 SS
24W487	LSL-32M-SA2-303	LSL-33, STANDALONE INJECTOR, GREASE, 1/8 NPSF, 303 SS
24W489 24W490	LSL-32M-SA2-303 LSL-32M-MA6-303	LSL-33, STANDALONE INJECTOR, GREASE, 1/8 NPSF, 303 SS LSL-33, STANDALONE INJECTOR, GREASE, 6MM METRIC PORTS, 303 SS
	LSL-32M-MA6-303 LSL-32M-M1-MA6-303	LSL-33, STANDALONE INJECTOR, GREASE, MINIM METRIC PORTS, 303 SS LSL-33, 1 INJECTOR ASSY (W/MFLD), GREASE, METRIC PORTS 303 SS
24W501		
24W502	LSL-32M-M2-MA6-303	LSL-33, 2 INJECTOR ASSY (W/MFLD), GREASE, METRIC PORTS 303 SS
24W503	LSL-32M-M3-MA6-303	LSL-33, 3 INJECTOR ASSY (W/MFLD), GREASE, METRIC PORTS 303 SS
24W504 24W505	LSL-32M-M4-MA6-303 LSL-32M-M6-MA6-303	LSL-33, 4 INJECTOR ASSY (W/MFLD), GREASE, METRIC PORTS 303 SS LSL-33, 6 INJECTOR ASSY (W/MFLD), GREASE, METRIC PORTS 303 SS
24W601	LSL-32M-M1-A1-303	LSL-33, 1 INJECTOR ASSY (W/MFLD), GREASE, METRIC PORTS 303 33
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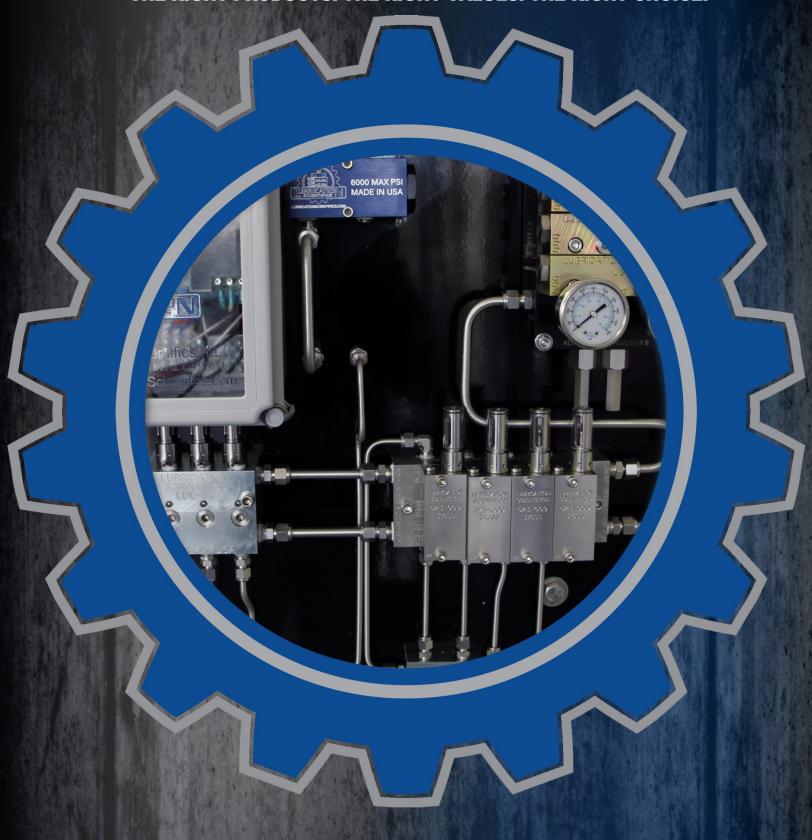
LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

COMPETITOR'S PART NUMBER INTERCHANGE (CONTINUED) GRACO

GRACO PART NUMBER	LUBRICATION SCIENTIFICS PART NUMBER	PRODUCT DESCRIPTION
24W602	LSL-32M-M2-A2-303	LSL-33, 2 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W603	LSL-32M-M3-A2-303	LSL-33, 3 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W604	LSL-32M-M4-A2-303	LSL-33, 4 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W605	LSL-32M-M6-A2-303	LSL-33, 6 INJECTOR ASSY (W/MFLD), GREASE, 1/8 NPSF, 303 SS
24W701	LSL-32M-M1-MA6-303	LSL-33, 1 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC PORTS 303 SS
24W702	LSL-32M-M2-MA6-303	LSL-33, 2 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC PORTS 303 SS
24W703	LSL-32M-M3-MA6-303	LSL-33, 3 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC PORTS 303 SS
24W704	LSL-32M-M4-MA6-303	LSL-33, 4 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC PORTS 303 SS
24W705	LSL-32M-M6-MA6-303	LSL-33, 6 INJECTOR ASSY (W/MFLD), GREASE, 6MM METRIC PORTS 303 SS
24X153	LSL-1-303	LSL-1A, 1 INJECTOR NO MFLD 303 SS
24X401	LSL-M1A-303	LSL-1A, 1 INJECTOR ASSY (W/MFLD) 303 SS
24X402	LSL-M2A-303	LSL-1A, 2 INJECTOR ASSY (W/MFLD) 303 SS
24X403	LSL-M3A-303	LSL-1A, 3 INJECTOR ASSY (W/MFLD) 303 SS
24X404	LSL-M4A-303	LSL-1A, 4 INJECTOR ASSY (W/MFLD) 303 SS
24X405	LSL-M5A-303	LSL-1A, 5 INJECTOR ASSY (W/MFLD) 303 SS
24X406	LSL-M6A-303	LSL-1A, 6 INJECTOR ASSY (W/MFLD) 303 SS
24X801	LSL-M1A-000-R5	LSL-1 MED OUTPUT SQ, 1 INJECTOR ASSY (W/MFLD) CRS
24X802	LSL-M2A-000-R5	LSL-1 MED OUTPUT SQ, 2 INJECTOR ASSY (W/MFLD) CRS
24X803	LSL-M3A-000-R5	LSL-1 MED OUTPUT SQ, 3 INJECTOR ASSY (W/MFLD) CRS
24X804	LSL-M4A-000-R5	LSL-1 MED OUTPUT SQ, 4 INJECTOR ASSY (W/MFLD) CRS
24X805	LSL-M5A-000-R5	LSL-1 MED OUTPUT SQ, 5 INJECTOR ASSY (W/MFLD) CRS
24X806	LSL-M6A-000-R5	LSL-1 MED OUTPUT SQ, 6 INJECTOR ASSY (W/MFLD) CRS
24X807	LSL-1-000-R5	LSL-1 MED OUTPUT SQ, 1 INJECTOR, STAND ALONE
24X811	LSL-M1A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
24X812	LSL-M2A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
24X813	LSL-M3A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
24X814	LSL-M4A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
24X815	LSL-M5A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
24X816	LSL-M6A-000-HO	LSL-A1-HO, 1 INJECTOR ASSY (W/MFLD) CRS
24X817	LSL-1-000-HO	LSL-A1-HO, 1 INJECTOR, STAND ALONE
25A087	LSL-1A-CAPV	LSL-1A VINYL CAP
77X540	L527680-NO-000	24VDC VENT VALVE
	LSL-11-CAPV	LSL-11 VINYL CAP

LUBRICATION SCIENTIFICS, LLC

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



DUAL LINE SERIES VALVE SYSTEMS

MODULAR—DUAL SERIES HYBRID TECHNOLOGY—ACCESSORIES



DUAL LINE SERIES VALVE PRODUCT LINE—MDL, LDL, LDLR

PRODUCT DESCRIPTION

DESIGNED FOR HEAVY DUTY GREASE OR OIL APPLICATIONS

CORROSIVE RESISTANT CARBON STEEL AND 316 STAINLESS STEEL PRODUCTS AVAILABLE

NPTF AND BSPP SUPPLY AND OUTLET CONNECTIONS **AVAILABLE**

TRADITIONAL AND MODULAR DUAL LINES HAVE ADJUSTABLE **OUTPUTS**

IDEAL CHOICE FOR USE ON AUTOMATIC LUBRICATION SYSTEMS WITH LARGE NUMBER OF LUBE POINTS REQUIRING **VARYING LUBE QUANTITIES AT VARIOUS POINTS**

AIR-OIL CONFIGURATION READY

ALL UNITS ARE TESTED FOR ZERO LEAK OPERATION

BENEFITS & FEATURES

IDEAL FOR THOUSANDS OF POINTS OVER LONG DISTANCES

EASE OF DESIGN, POINTS CAN EASILY BE ADDED OR REMOVED

ALL LUBRICANT CAN BE INDIVIDUALLY **ADJUSTED**

WORKS WITH LIGHT OIL TO NLGI 2 A SINGLE BLOCKAGE DOES NOT SHUT DOWN **ENTIRE SYSTEM**

SUITABLE FOR HEAVY INDUSTRIES SUCH AS STEEL, PAPER & PULP, CEMENT MANUFACTURING, MINING, MINERAL PROCESSING, POWER GENERATION, & METAL **WORKING PLANTS**

REVERSING VALVE IS EASILY ADJUSTABLE WITH A SETTING RANGE OF 500-3500 PSI

REVERSING VALVE & MDL IS FULLY FIELD **SERVICEABLE**

READY FOR IMMEDIATE SHIPMENT

MADF IN



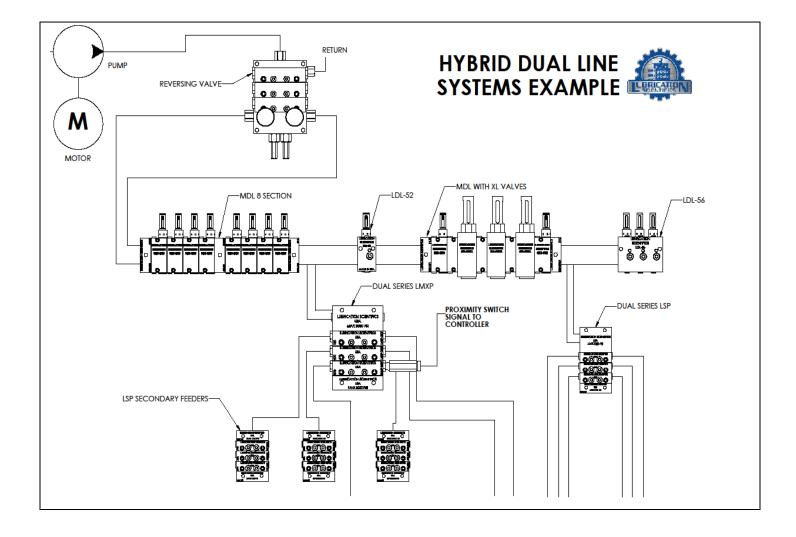
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THE LUBRICATION SCIENTIFICS HYBRID FLEXIBILITY ADVANTAGE

INNOVATIVE LUBRICATION SYSTEMS FOR HEAVY INDUSTRY

THE LUBRICATION SCIENTIFICS, LLC DUAL LINE PRODUCT LINE ENABLES LUBRICATION SYSTEM DESIGNERS TO CHOOSE THE PERFECT DELIVERY/MONITORING SOLUTION FOR EACH BEARING POINT.

BY MIXING <u>TRADITIONAL</u>, <u>MODULAR</u>, AND <u>DUAL SERIES</u> COMPONENTS IN THE SAME LARGE SYSTEM, SYSTEM ENGINEERS CAN DELIVER SUPERIOR PERFORMANCE, MONITORED RELIABILITY, LOWER LIFETIME MAINTENANCE COST, AND FUTURE SYSTEM FLEXIBILITY, ALL AT THE LOWEST INSTALLED SYSTEM COST.



THE LUBRICATION SCIENTIFICS AIR-OIL ADVANTAGE

INNOVATIVE LUBRICATION SYSTEMS FOR HEAVY INDUSTRY

THE USE OF A DUAL LINE AIR-OIL LUBRICATION SYSTEM CAN PROVIDE A NUMBER OF BENEFITS THAT POSITIVELY IMPACTS SUSTAINABILITY AND COST SUCH AS:

- ♦ INCREASED BEARING LIFE
- ◆ UP TO 90% REDUCTION IN LUBRICANT USAGE VERSES GREASE
- CONSTANT SUPPLY OF CLEAN OIL TO THE BEARING POINTS
- CONSTANT POSITIVE PRESSURE PREVENTS CONTAMINATION FROM ENTERING BEARING
- ◆ ELIMINATES GREASE RELATED HOUSING KEEPING COSTS
- ELIMINATES ENVIRONMENTAL COSTS FOR USED GREASE DISPOSAL

THE MODULAR SERIES DUAL LINE PRODUCT IS ENGINEERED TO BE **CONVERTED FROM GREASE TO AIR-OIL WITHOUT ABANDONING THE ORIGINAL INVESTMENT** IN THE MDL
COMPONENTS.

TO CONVERT TO AIR-OIL, SIMPLY PURGE ALL THE GREASE FROM THE SYSTEM. INSTALL THE AIR INDUCTION MANIFOLDS BETWEEN THE MDL VALVE AND THE MDL SUB-PLATE AND ADJUST THE VALVE OUTPUTS TO THE REQUIRED AIR-OIL LUBRICATION AMOUNTS.

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TRADITIONAL STYLE DUAL LINE SERIES VALVES



THE TRADITIONAL DUAL LINE MODEL IS A REDESIGNED, RE-ENGINEERED TAKE ON THE EXISTING TRADITIONAL DUAL LINE THAT THE INDUSTRY IS ACCUSTOMED TO. THE TRADITIONAL DUAL LINE IS A ZERO LEAK UNIT FROM THE PISTON TO THE INDICATOR ASSEMBLY. THE LDL SERIES VALVE IS A BOLT ON REPLACEMENT FOR THE FARVAL DD50©, LINCOLN©, HELIOS©, VSG AND VSL©, SERIES VALVES. WHILE TRADITIONAL DUAL LINE LUBRICATION SYSTEMS EMPLOY COUNTLESS OPERATIONAL BENEFITS, THERE ARE DESIGN DRAWBACKS THAT ONLY OUR MODULAR DUAL LINE CAN ACCOMMODATE. TRADITIONAL DUAL LINE MODELS ARE ONE PIECE BLOCKS THAT CAN SERVICE UP TO 8 LUBE POINTS. BECAUSE THEY ARE ONE PIECE BLOCKS, WHEN A SINGLE LUBE POINT FAILS THE ENTIRE BLOCK WILL HAVE TO BE REPLACED. WHEN ADDING LABOR, TIME AND THE COST OF THE NEW BLOCK, THE RESULT COULD BE COSTLY. THE MODULAR DESIGN REMEDIES THIS BY HAVING MODULAR VALVES. WHEN A VALVE NEEDS REPLACING, ALL THAT IS REQUIRED IS THE REPLACEMENT OF THE INDIVIDUAL VALVE, NOT THE ENTIRE BLOCK. THIS SAVES TIME AND MONEY BY NOT HAVING TO DEVOTE MANPOWER TO REPLACE AN ENTIRE BLOCK OR REMOVE ANY LUBRICATION LINES. SIMPLY JUST SWAP OUT THE VALVE AND THE UNIT IS READY TO GO IN MINUTES. MODULAR DUAL LINES ARE SHOWCASED IN THIS BROCHURE ON PAGE 8.

TRADITIONAL DUAL LINE

ORDERING INFORMATION & PART NUMBERS

CARBON AND STAINLESS STEEL NPTF DUAL LINE VALVES

STANDARD WITH STAINLESS STEEL CAPS AND INDICATOR ASSEMBLIES

100% BOLT ON REPLACEMENT FOR FARVAL DD50 SERIES VALVES

MAY USE EXISTING TUBING AND FITTINGS

FOR DIMENSIONS AND MOUNTING INFORMATION SEE PAGES 20 & 21

STANDARD PACK: 1 EACH					
MAXIMUM OUTLETS	MOUNTING HOLE	ADJUSTABLE OUTPUT	PART NUMBER CARBON STEEL	PART NUMBER STAINLESS STEEL	
2	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-52	SSLDL-52	
4	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-54	SSLDL-54	
6	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-56	SSLDL-56	
8	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-58	SSLDL-58	

CARBON AND STAINLESS STEEL BSPP DUAL LINE VALVES

STANDARD WITH STAINLESS STEEL CAPS AND INDICATOR ASSEMBLIES

100% BOLT ON REPLACEMENT FOR LINCOLN, HELIOS, VSG & VSL SERIES VALVES

MAY USE EXISTING TUBING AND FITTINGS

STANDARD PACK: 1 EACH					
MAXIMUM OUTLETS	MOUNTING HOLE	ADJUSTABLE OUTPUT	PART NUMBER CARBON STEEL	PART NUMBER STAINLESS STEEL	
2	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-52H	SSLDL-52H	
4	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-54H	SSLDL-54H	
6	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-56H	SSLDL-56H	
8	21/64"	.01—.30 CUBIC INCHES .16–4.9 CC	LDL-58H	SSLDL-58H	

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ACCESSORIES

INDICATOR ASSEMBLY SHIELDS

STANDARD PACK: 5 EACH				
SHIELD CONSTRUCTION PART NUMBER				
POLYCARBONATE	523-030P			
316 STAINLESS STEEL SS523-030P				



SYSTEM FEEDBACK—PROXIMITY SWITCH ASSEMBLIES

STANDARD PACK: 1 EACH				
DESCRIPTION	PART NUMBER	PART NUMBER		
DESCRIPTION	303 STAINLESS CONNECTOR	316 STAINLESS CONNECTOR		
MOUNTED PROXIMITY SWITCH ASSEMBLY W/ 12' INTEGRAL CABLE, SWITCH TYPE (PNP)	523-015	SS523-015		
MOUNTED PROXIMITY SWITCH ASSEMBLY W/ 12' INTEGRAL CABLE, SWITCH TYPE (NPN)	523-016	SS523-016		

MODULAR SERIES DUAL LINE VALVE



THE MODULAR DUAL LINE IS UNLIKE ANY DUAL LINE ON THE MARKET DUE TO ITS MODULAR DESIGN. THE OUTPUT IS ADJUSTABLE AND CAN ACCOMMODATE UP TO 36, VALVES SERVICING UP TO 72 LUBE POINTS IN A GIVEN VALVE ASSEMBLY. EACH OUTPUT CAN SUPPLY A LUBE POINT WITH 0.1 TO 1.2 CUBIC INCHES PER CYCLE OF OIL OR GREASE.

THE MAIN FEATURE OF THE MDL IS EACH VALVE CAN BE REPLACED IN MINUTES WITHOUT NEEDING TO REMOVE ANY TUBING. THIS AFFORDS THE ABILITY TO ADD ON VALVES TO AN EXISTING ASSEMBLY AT ANY POINT IN TIME WITHOUT HAVING TO PURCHASE AN ENTIRE MANIFOLD BLOCK. A MODULAR DUAL LINE VALVE ASSEMBLY MEANS MINIMAL SYSTEM DOWNTIME DURING SERVICE AND VALVE REPLACEMENT.

THE MDL IS THE ONLY HEAVY DUTY DUAL LINE VALVE ON THE MARKET WITH A MODULAR DESIGN MAKING THIS VALVE VASTLY SUPERIOR TO THE TRADITIONAL DUAL LINE MODELS.

MODULAR DUAL LINE

ORDERING INFORMATION & PART NUMBERS

REQUIREMENTS FOR BUILDING AND ORDERING A MODULAR DUAL LINE

FOR DIMENSIONS AND MOUNTING INFORMATION SEE PAGE 22

STEP ONE: PICK AN INLET SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP TWO: CHOOSE THE NUMBER OF INTERMEDIATE SECTIONS "VALVES" NEEDED. (MINIMUM OF 1 REQUIRED PER SUB-PLATE ASSEMBLY)

STEP THREE: BRIDGE SECTION (1 REQUIRED FOR VALVE ASSEMBLIES OF MORE THAN 4 WORKING SECTIONS)

STEP FOUR: PICK AN END SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP FIVE: CHOOSE NUMBER OF VALVE SECTIONS (1 REQUIRED FOR EACH WORKING INTERMEDIATE)

STEP ONE

PICK AN INLET SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STANDARD PACK: 1 EACH				
INLET DESCRIPTION	MOUNTING HOLE DIM.	PART NUMBER CARBON STEEL	PART NUMBER 316 STAINLESS STEEL	
INLET, 3/8-18 NPTF	21/64"	523-001	SS523-001	
INLET, 3/8-18 BSPP	21/64"	523-001M	SS523-001M	



REQUIREMENTS FOR BUILDING AND ORDERING A MODULAR DUAL LINE

STEP ONE: PICK AN INLET SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP TWO: CHOOSE THE NUMBER OF INTERMEDIATE SECTIONS "VALVES" NEEDED. (MINIMUM OF 1 REQUIRED PER SUB-PLATE ASSEMBLY)

STEP THREE: BRIDGE SECTION (1 REQUIRED FOR VALVE ASSEMBLIES OF MORE THAN 4 WORKING SECTIONS)

STEP FOUR: PICK AN END SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP FIVE: CHOOSE NUMBER OF VALVE SECTIONS (1 REQUIRED FOR EACH WORKING INTERMEDIATE)

STEP TWO

CHOOSE THE NUMBER OF INTERMEDIATE SECTIONS "VALVES" NEEDED. (MINIMUM OF 1 REQUIRED PER SUB-PLATE ASSEMBLY)





STANDARD PACK: 1 EACH					
INTERMEDIATE DESCRIPTION	OUTLET PORT CONNECTION	PART NUMBER	PART NUMBER		
INTERMEDIATE DESCRIPTION	OUTLET PORT CONNECTION	CARBON STEEL	316 STAINLESS STEEL		
INTERMEDIATE "A" 1/4-18 NPTF	1/4-18 NPTF	523-002A	SS523-002A		
INTERMEDIATE "B" 1/4-18 NPTF	1/4-18 NPTF	523-002B	SS523-002B		
INTERMEDIATE "A" 1/4-19 BSPP	1/4-19 BSPP	523-002A-M	SS523-002A-M		
INTERMEDIATE "B" 1/4-19 BSPP	1/4-19 BSPP	523-002B-M	SS523-002B-M		

ORDERING NOTE REGARDING "A" & "B" INTERMEDIATE SECTIONS:

FOR MORE THAN ONE VALVE SECTION, YOU MUST ALTERNATE A'S & B'S FOR ASSEMBLY PURPOSES. SEE BELOW.

3 VALVE SECTION EXAMPLE: INLET | A | B | A | END OR INLET | B | A | B | END

4 VALVE SECTION EXAMPLE: INLET | A | B | A | B | END OR INLET | B | A | B | A | END

REQUIREMENTS FOR BUILDING AND ORDERING A MODULAR DUAL LINE

STEP ONE: PICK AN INLET SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP TWO: CHOOSE THE NUMBER OF INTERMEDIATE SECTIONS "VALVES" NEEDED. (MINIMUM OF 1 REQUIRED PER SUB-PLATE

ASSEMBLY)

STEP THREE: BRIDGE SECTION (1 REQUIRED FOR VALVE ASSEMBLIES OF MORE THAN 4 WORKING SECTIONS)

STEP FOUR: PICK AN END SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP FIVE: CHOOSE NUMBER OF VALVE SECTIONS (1 REQUIRED FOR EACH WORKING INTERMEDIATE)

STEP THREE

BRIDGE SECTION (1 REQUIRED AFTER EVERY 4 WORKING SECTIONS)

STANDARD PACK: 1 EACH						
PRINCE DESCRIPTION	MOUNTING HOLE DIM.	PART NUMBER	PART NUMBER			
BRIDGE DESCRIPTION		CARBON STEEL	316 STAINLESS STEEL			
BRIDGE SECTION—ALL	21/64"	523-003	SS523-003			

EXAMPLE: IF THERE ARE 8 VALVE SECTIONS, 1 BRIDGE IS NEEDED. 12 VALVE SECTIONS, 2 BRIDGE SECTIONS NEEDED.

REQUIREMENTS FOR BUILDING AND ORDERING A MODULAR DUAL LINE

STEP ONE: PICK AN INLET SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP TWO: CHOOSE THE NUMBER OF INTERMEDIATE SECTIONS "VALVES" NEEDED. (MINIMUM OF 1 REQUIRED PER SUB-PLATE

ASSEMBLY)

STEP THREE: BRIDGE SECTION (1 REQUIRED FOR VALVE ASSEMBLIES OF MORE THAN 4 WORKING SECTIONS)

STEP FOUR: PICK AN END SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP FIVE: CHOOSE NUMBER OF VALVE SECTIONS (1 REQUIRED FOR EACH WORKING INTERMEDIATE)

STEP FOUR

PICK AN END SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STANDARD PACK: 1 EACH					
END DESCRIPTION MOUNTING HOLE DIM. PART NUMBER PART NUMBER					
END, 3/8-18 NPTF	21/64"	523-004	SS523-004		
END, 3/8-18 BSPP	21/64"	523-004M	SS523-004M		



REQUIREMENTS FOR BUILDING AND ORDERING A MODULAR DUAL LINE

STEP ONE: PICK AN INLET SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP TWO: CHOOSE THE NUMBER OF INTERMEDIATE SECTIONS "VALVES" NEEDED. (MINIMUM OF 1 REQUIRED PER SUB-PLATE

ASSEMBLY)

STEP THREE: BRIDGE SECTION (1 REQUIRED FOR VALVE ASSEMBLIES OF MORE THAN 4 WORKING SECTIONS)

STEP FOUR: PICK AN END SECTION (1 REQUIRED PER VALVE ASSEMBLY)

STEP FIVE: CHOOSE NUMBER OF VALVE SECTIONS (1 REQUIRED FOR EACH WORKING INTERMEDIATE)

STEP FIVE

CHOOSE NUMBER OF VALVE SECTIONS (1 REQUIRED FOR EACH WORKING INTERMEDIATE)

STANDARD PACK: 1 EACH				
INLET DESCRIPTION	ADJUSTABLE OUTPUT	PART NUMBER CARBON STEEL	PART NUMBER 316 STAINLESS STEEL	
VALVE SECTION	.1 TO 1.2 CUBIC INCHES 1.63 TO 4.91 CC	523-009	SS523-009	
INDICATOR HOUSING SHIELD	N/A	523-030P	SS523-030P	
INDICATOR HOUSING SHIELD	N/A	523-030	SS523-030	









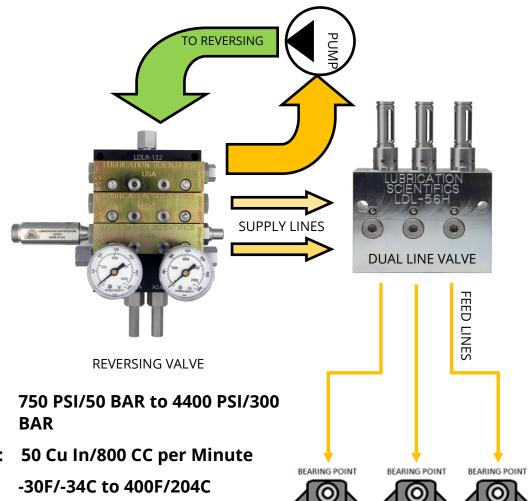
THE LUBRICATION SCIENTIFICS, LLC EXCLUSIVE DUAL SERIES INLETS CAN BE INSTALLED IN EITHER NEW OR EXISTING DUAL LINE SYSTEMS. THESE DUAL SERIES INLETS ARE ENGINEERED TO WORK WITH LUBRICATION SCIENTIFICS, LLC STANDARD LSP OR LMXP SERIES PROGRESSIVE COMPONENTS. EACH DUAL SERIES INLET CAN HAVE UP TO 18 OUTLETS, WHICH CAN BE CONNECTED DIRECTLY TO LUBE POINTS OR TO SERIES PROGRESSIVE SECONDARY VALVES. THE FIRST SECTION, EVEN THOUGH IT IS A STANDARD "T" SECTION, IS USED AS A PILOT AND DISPENSES NO LUBRICANT. WHEN USING SECONDARY VALVES, UP TO 360 CRITICAL LUBE POINTS CAN BE MONITORED FOR LESS THAN \$1,000.00.

IT IS IMPORTANT TO NOTE, A FAULT IN A SERIES PROGRESSIVE ZONE, SUPPLIED BY A DUAL SERIES INLET, WILL NOT AFFECT THE OPERATION OF THE REST OF THE DUAL LINE LUBRICATION SYSTEM.

- ♦ OUTPUT RANGES FROM .005 TO .300 CUBIC INCHES/CYCLE.
- NEVER DISCONNECT EITHER SUPPLY OR DISCHARGE LINES TO CHANGE OUT A NON-WORKING SECTION.
- COST SAVING DESIGN, REPLACE ONLY THE NON-WORKING PISTON SECTION.
- ♦ REPLACE A NON-WORKING PISTON SECTION IN 2 MINUTES, INSTEAD OF 2 HOURS.
- DS INLET DESIGN ALLOWS EASY MONITORING OF A LARGE NUMBER OF CRITICAL POINTS.
- ♦ INSTALLING SINGLING AND CROSS-PORTING PLATES INSURE ULTIMATE FLEXIBILITY AND VISIBILITY.
- ♦ AVAILABLE FROM STOCK IN CARBON STEEL & 316 STAINLESS STEEL.

STANDARD PACK: 1 EACH			
PART DESCRIPTION	PART NUMBER		
LSP INLET	DLS-LSP-INL		
LMXP INLET	132-11035		

REVERSING VALVE ILLUSTRATION & ORDERING INFORMATION



Maximum Flow Rate: 50 Cu In/800 CC per Minute

Temperature Range: -30F/-34C to 400F/204C

Adjustment Range:

Useable Lubricants: Oil to Grease (NLGI Class 2)

Construction: 2024 AL, CRS Steel, SS Steel &

Viton Seals

THE LDLR-132-000, REVERSING VALVE ASSEMBLY, SHIFTS THE OUTPUT, FROM ONE SUPPLY TO THE OTHER, VIA INTERNAL RELIEF VALVES, WHICH ARE CONNECTED TO A RETURN PATH TO THE RESERVOIR.

THE LDLR-132-000, REVERSING VALVE ASSEMBLY, IS EASILY ADJUSTED, BY USING A 3/16 ALLEN WRENCH ON THE SPECIFIC RELIEF VALVE ASSEMBLY, TIED TO EACH LINE. THE LDLR-132-000 CAN BE ADJUSTED TO SHIFT AT ANY PRESSURE VALUE BETWEEN 500 AND 3500 PSI. THE UNIQUE DESIGN INSURES THAT BOTH LINES WILL SHIFT AT PRECISELY THE SAME PRESSURE.

UNLIKE ANY OTHER REVERSING VALVE, THE LDLR-132-000 CAN BE REBUILT IN THE FIELD.

STANDARD PACK: 1 EACH		
PART DESCRIPTION	PART NUMBER	
REVERSING VALVE ASSEMBLY	LDLR-132-000	

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ACCESSORIES

SINGLING & CROSSPORTING KITS

STANDARD PACK: 1 EACH					
DESCRIPTION	MAX SINGLE OUTPUT	PART NUMBER CARBON STEEL	PART NUMBER STAINLESS STEEL		
SINGLING KIT—1 VALVE TWIN OUTPUT TO A SINGLE OUTPUT (PLUG 1 OUTLET)	.3 CUBIC INCH 4.91 CC	523-005	SS523-005		
CROSSPORT KIT—2 VALVES TWIN OUTPUT TO A SINGLE OUTPUT (PLUG 3 OUTLETS)	.6 CUBIC INCH 9.83	523-006	SS523-006		
CROSSPORT KIT—3 VALVES TWIN OUTPUT TO A SINGLE OUTPUT (PLUG 5 OUTLETS)	.9 CUBIC INCH 14.74	523-007	SS523-007		
CROSSPORT KIT—4 VALVES TWIN OUTPUT TO A SINGLE OUTPUT (PLUG 7 OUTLETS)	1.2 CUBIC INCH 19.66	523-008	SS523-008		

SYSTEM FEEDBACK—PROXIMITY SWITCH ASSEMBLIES

STANDARD PACK: 1 EACH		
DESCRIPTION	PART NUMBER	PART NUMBER
DESCRIPTION	303 STAINLESS CONNECTOR	316 STAINLESS CONNECTOR
MOUNTED PROXIMITY SWITCH ASSEMBLY W/ 12' INTEGRAL CABLE, SWITCH TYPE (PNP)	523-015	SS523-015
MOUNTED PROXIMITY SWITCH ASSEMBLY W/ 12' INTEGRAL CABLE, SWITCH TYPE (NPN)	523-016	SS523-016

O-RING HARDWARE KITS

STANDARD PACK: 1 KIT EACH	
O-RING HARDWARE LOCATION DESCRIPTION	PART NUMBER CARBON STEEL
ALL INLETS	523-021
ALL INTERMEDIATE SECTIONS	523-022
ALL BRIDGE SECTIONS	523-023
ALL END SECTIONS	523-024
ALL SINGLING PLATES	523-025
ALL 2 VALVE CROSSPORT KIT	523-026
ALL 3 VALVE CROSSPORT KIT	523-027
ALL 4 VALVE CROSSPORT KIT	523-028
ALL VALVE SECTIONS	523-029

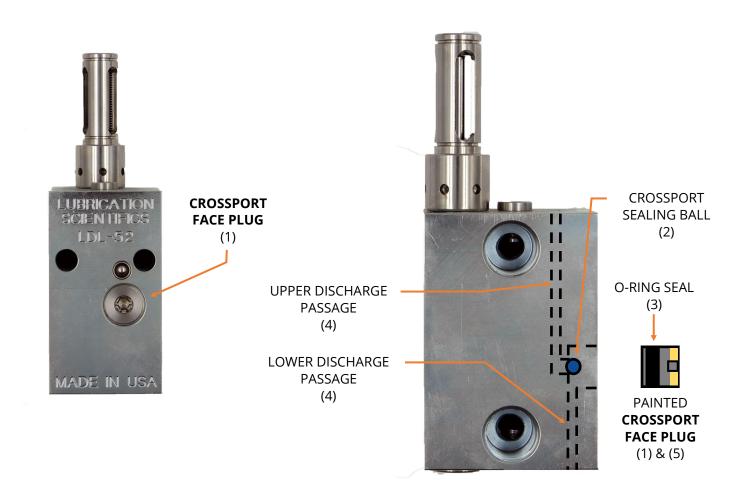
SINGLING INSTRUCTIONS FOR LDL SERIES

TO SINGLE:

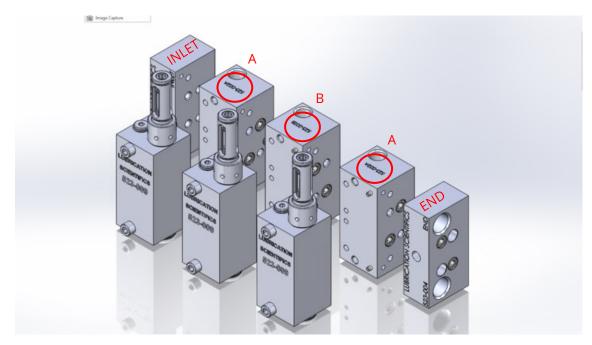
- 1) REMOVE THE CROSSPORT FACE PLUG
- 2) REMOVE CROSSPORT SEALING BALL (STEEL BALL)
- 3) APPLY OIL OR GREASE TO THE CROSSPORT FACE PLUG SEAL AND CAREFULLY INSTALL IN THE THREADED PORT
- 4) PLUG EITHER THE UPPER OR LOWER DISCHARGE PORT USING 1/4 NPTF OR 1/4-19 BSPP DEPENDING ON MODEI
- 5) EITHER PAINT OR MECHANICALLY MARK THE CROSSPORT FACE PLUG TO INDICATE THAT THIS PISTON IS SINGLED (CROSSPORTED)

NOTE: YOU MAY ORDER SPECIAL SINGLING CROSSPORT FACE PLUGS, WHICH ARE YELLOW PLATED TO INDICATE SINGLING OF THE PORT INTO WHICH THEY ARE INSTALLED

FOR SINGLING KITS, SEE PAGE 16.



LUBRICATION SCIENTIFICS' MDL ASSEMBLY



SEQUENCING —> Inlet > A intermediate > B intermediate > A intermediate > End
Or, Inlet > B intermediate > A intermediate > End

Step 1: Start with inlet block and align intermediate A or intermediate B Torque cap screws with 8-9 ft/lb

Step 2: Next intermediate must alternate.

 $\underline{\sf EXAMPLE}$: first intermediate is engraved $\underline{\sf 523-002B-M}$, the second intermediate must read $\underline{\sf 523-002A-M}$

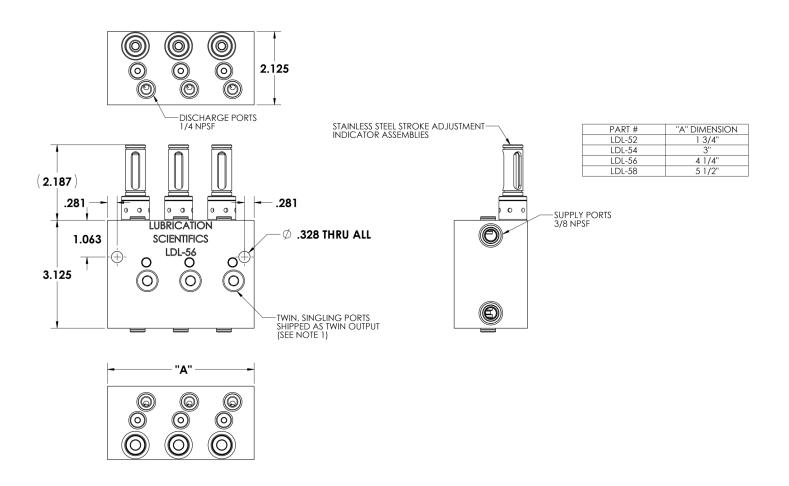
Torque cap screws with 8-9 ft/lb

Step 3:Repeat step 2 alternating from previous intermediate.

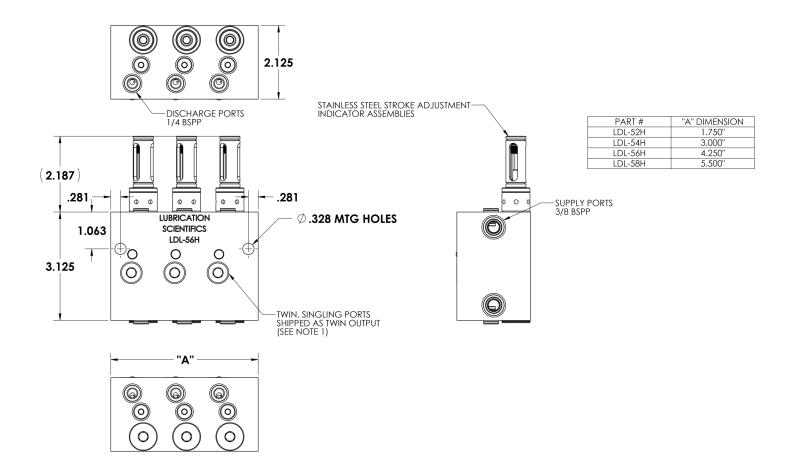
Step 4: Align "END" block and Torque cap screws with 8-9 ft/lb

Step 5: Align valve sections to intermediates and Torque cap screws with 8-9 ft/lb

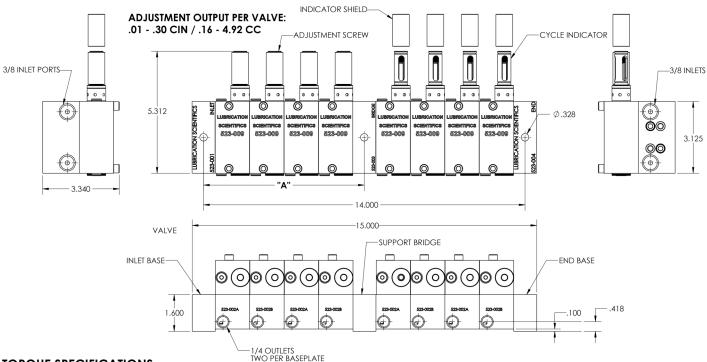
TRADITIONAL DUAL LINE DIMENSIONS AND MOUNTING INFORMATION



HELIO DUAL LINE DIMENSIONS AND MOUNTING INFORMATION



MODULAR DUAL LINE DIMENSIONS AND MOUNTING INFORMATION



TORQUE SPECIFICATIONS

- VALVE SECTION MOUNTING SCREW 8-9 FT. LBS.
- ENCLOSURE PLUGS 6-8 FT. LBS.

l .	
SECTIONS	CENTER TO CENTER DIM "A"
1 SECTION	2.500"
2 SECTION	4.000"
3 SECTION	5.500"
4 SECTION	7 000"

BULLETIN: LSM020 LAST REVISED: 10/02/2018 22

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DROP IN REPLACEMENTS—PRESSURE FED—SUCTION FED



LUBRICATION BOX PUMPS



BENEFITS & FEATURES PRODUCT DESCRIPTION 303 STAINLESS STEEL CONSTRUCTION AND STEEL **COMPONENTS** ONE PIECE 303 STAINLESS STEEL BODY 1/4" & 3/8" PLUNGER SIZES AVAILABLE STEEL PUMP HARDWARE & COMPONENTS FOR WEATHER PROOF, CORROSION RESISTANT HIGH PRESSURE APPLICATIONS HARDENED STEEL ROLLER ROCKER ARM FOR HIGH PRESSURE APPLICATIONS DIRECT REPLACEMENT & RETROFIT FOR MANY PUMP MODELS CAN BE CONFIGURED FOR EITHER LUBE BOXES SUCTION PUMP OR GRAVITY FED OPERATION PUMP ASSEMBLY RETROFITS ARE COMPATIBLE WITH **GRAVITY FED & SUCTION PUMPS AVAILABLE** MOST LUBE BOXES, SEE FULL LIST FOR DETAILS **USED FOR OIL APPLICATIONS**

READY FOR IMMEDIATE SHIPMENT

MADE IN



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PUMPS, BOXES, GASKETS, & SEALS

STANDARD PACK: 1 EACH					
PRODUCT DESCRIPTION	MAX DISPLACEMENT PER STOKE	PRESSURE (PSI/ BAR)	PART NUMBER		
3/16" M55, SUCTION FEED	.010 CU.IN .163 CC	7500 / 517	L55-187-SF		
1/4" M55, SUCTION FEED	.018 CU. IN. .294 CC	6500 / 448	L55-250-SF		
3/8" M55, SUCTION FEED	.041 CU.IN. .671 CC	3500 / 241	L55-375-SF		
3/16" M55, PRESSURE FEED	.010 CU.IN .163 CC	7500 / 517	L55-187-PF		
1/4" M55, PRESSURE FEED	.018 CU. IN. .294 CC	6500 / 448	L55-250-PF		
3/8" M55, PRESSURE FEED	.041 CU. IN. .671 CC	3500 / 241	L55-375-PF		
GASKET, BOX LUBRICATOR BOX	N/A	N/A	1225-027		
BOX PUMP VITON UMBRELLA SEAL VSS-302	N/A	N/A	1225-017		





SPECIFICATIONS			
LUBRICATION	MINERAL BASED OR SYNTHETIC OIL		
OIL VISCOSITY	90 SUS—8000 SUS		
TEMPERATURE	-20—190 DEGREES F		
OPERATING SPEED	4—30 RPM		

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LMPP PUMPING SOLUTIONS

PNEUMATIC—HYDRAULIC—OIL OR GREASE APPLICATION







PRODUCT DESCRIPTION

PUMPS AVAILABLE IN PNEUMATIC OR HYDRAULIC MECHANICAL OPERATION

PRESSURES RANGE FROM 40-150 PSI OR 200-2000 PSI

ADJUSTABLE OUTPUTS

CYCLE RATES RANGE FROM 20 TO 100 CYCLES PER MINUTE

INTERMEDIATE MANIFOLD REQUIRED FOR NON ECONOMY PNEUMATIC POWERED PUMPS

POLYCARBONATE TUBES FOR LUBRICATION RESERVOIRS

BENEFITS & FEATURES

ADJUSTABLE OUTPUT RANGING FROM .01 TO .12

CUBIC INCHES OF LUBRICANT

SINGLE ACTION AND DOUBLE ACTION

STAINLESS STEEL HARDWARE

ACCOMMODATES OIL OR GREASE APPLICATIONS

6, 12, & 20 PINT OIL RESERVOIRS AVAILABLE

6, 12 & 20 LBS GREASE TUBE AVAILABLE

PUMP PACKAGES AVAILABLE WITH LOW LEVEL, & HIGH PRESSURE SWITCH OPTIONS

READY FOR IMMEDIATE SHIPMENT

MADE IN



PNEUMATIC POWERED PUMPS

PRESSURE RANGE: 40-150 PSI

ADJUSTABLE OUTPUT

VITON SEALS

STAINLESS STEEL ADJUSTMENT ASSEMBLY

STAINLESS STEEL HARDWARE

INTERMEDIATE MANIFOLD REQUIRED

STANDAR	D PACK: 1 EACH					
	PUMP SPECIFICATIONS				PART NUMBERS	
MODEL	RATIO & ACTION	CYCLES PER MIN	OUTPUT (CU IN/ CC)	CARBON STEEL	303 STAINLESS	316 STAINLESS
05	30:1 S/A AIR	65	.0103 .1649	LP-05A1	LP-05A1-303	LP-05A1-316
25	30:1 S/A AIR	25	.0312 .49-1.96	LP-25A1	LP-25A1-303	LP-25A1-316
50	30:1 S/A AIR	20	.06250 1.96-4.09	LP-50A1	LP-50A1-303	LP-50A1-316
05	30:1 D/A AIR	100	.0103 .1649	LP-05A2	LP-05A2-303	LP-05A2-316
25	30:1 D/A AIR	100	.0312 .49-1.96	LP-25A2	LP-25A2-303	LP-25A2-316
50	30:1 D/A AIR	60	.06250 1.96-4.09	LP-50A2	LP-50A2-303	LP-50A2-316



HYDRAULIC POWERED PUMPS

PRESSURE RANGE: 200-2000 PSI

ADJUSTABLE OUTPUT

VITON SEALS

STAINLESS STEEL ADJUSTMENT ASSEMBLY

STAINLESS STEEL HARDWARE

INTERMEDIATE MANIFOLD REQUIRED

STANDAR	D PACK: 1 EACH					
	PUMP S	PECIFICATION	IS		PART NUMBERS	
MODEL	RATIO & ACTION	CYCLES PER MIN	OUTPUT (CU IN / CC)	CARBON STEEL 303 STAINLESS 316 STAIN		
05	5.5:1 D/A HYD	100	.0103 .16–.49	LP-05H2	LP-05H2-303	LP-05H2-316
25	5.5:1 D/A HYD	50	.0312 .49-1.96	LP-25H2	LP-25H2-303	LP-25H2-316



ECONOMY PNEUMATIC POWERED PUMP

PRESSURE RANGE: 40-150 PSI

VITON SEALS

STAINLESS STEEL ADJUSTMENT ASSEMBLY

STAINLESS STEEL HARDWARE

NO INTERMEDIATE MANIFOLD REQUIRED

STANDARD P	ACK: 1 EACH					
PUMP SPECIFICATIONS PART NUMBE					PART NUMBERS	5
MODEL	RATIO & ACTION	CYCLES PER MIN	OUTPUT (CU IN/ CC STROKE)	CARBON STEEL	303 STAINLESS	316 STAINLESS
ECONOMY	20:1 S/A AIR	30	.03 / .49	LP-ES1	LP-ES1-303	LP-ES1-316

INTERMEDIATE, PUMP TO RESERVOIR MANIFOLD ASSEMBLY

INCLUDES: MANIFOLD GAGE, CHECK FILLED FITTING, OUTLET CHECK, AND 1750 PSI BLOW-OUT DISK

STANDARD PACK: 1 EACH					
FOR PUMP MODEL	CARBON STEEL	303 STAINLESS	316 STAINLESS		
ALL RESERVOIR TO PUMP	LM-01	N/A	LM-01-316		
ALL REMOTE (WALL) MOUNT	LM-01RM	N/A	LM-01RM-316		
AIR FLOW RESTRICTOR—PROTECTS PUMP FROM SURGES	N/A	LP-FR01	LP-FR01-316		

STANDARD PACK: 1 EACH				
RESERVOIR SIZE	CAST ALUMINUM			
6LB GREASE 8.5" TUBE	LR-06-G			
12LB GREASE 13" TUBE	LR-12-G			
20LB GREASE 20" TUBE	LR-20-G			

GREASE RESERVOIRS

POLYCARBONATE TUBES

POWDER COATED TOPS & BASES

STAINLESS STEEL TIE RODS

FILL FITTINGS INCLUDED

OIL RESERVOIRS

POLYCARBONATE TUBES

POWDER COATED TOPS & BASES

STAINLESS STEEL TIE RODS

OIL FIL STRAINERS

STANDARD PACK: 1 EACH				
RESERVOIR SIZE	CAST ALUMINUM			
6 PINT OIL 8.5" TUBE HEIGHT	LR-06-O			
12 PINT OIL 13" TUBE HEIGHT	LR-12-O			
20 PINT OIL 20" TUBE HEIGHT	LR-20-O			

BULLETIN: LSM017 LAST REVISED: 08/21/2019 6

LOW LEVEL SWITCHES

FOR GREASE AND OIL

RESERVOIR CAPS ALREADY MACHINED FOR LOW LEVEL SWITCHES

STANDARD PACK: 1 EACH				
RESERVOIR SIZE	PART NUMBER			
ALL CYLINDRICAL—6, 12, & 20 POUND GREASE	LP-LLG			
ALL CYLINDRICAL—6 PINT OIL	LP-LLO-06			
ALL CYLINDRICAL—12 PINT OIL	LP-LLO-12			
ALL CYLINDRICAL—20 PINT OIL	LP-LLO-20			

HIGH PRESSURE SWITCHES

FOR GREASE AND OIL

STANDARD PACK: 1 EACH	
RESERVOIR SIZE & TYPE	PART NUMBER
INTERMEDIATE MANIFOLD MOUNT ALL CYLINDRICAL—6, 12, & 20 POUND GREASE & OIL—5 AMP	LP-HPS-MM
RESERVOIR MOUNT—COMPLETE KIT ALL CYLINDRICAL—6, 12, & 20 POUND GREASE & OIL—15 AMP	LP-HPS-RM

PNEUMATIC/HYDRAULIC/RESERVOIR REPAIR PARTS

PUMP REPAIR KITS, ALL PNEUMATIC, HYDRAULIC, & ECONOMY

STANDARD PACK: 1 KIT			
PUM	P MODEL	PART NUMBERS	
MODEL	RATIO & ACTION	FOR CRS/303 SS/316 SS	
05	30:1 S/A AIR	LP-05A1-RK	
25	30:1 S/A AIR	LP-25A1-RK	
50	30:1 S/A AIR	LP-50A1-RK	
05	30:1 D/A AIR	LP-05A2-RK	
25	30:1 D/A AIR	LP-25A2-RK	
50	30:1 D/A AIR	LP-50A2-RK	
05	5.5:1 D/A HDY	LP-05H2-RK	
25	5.5:1 D/A HDY	LP-25H2-RK	
ECONOMY	20:1 S/A AIR	LP-ES1-RK	

REPLACEMENT RESERVOIR TUBE WITH LOWER SEAL

POLYCARBONATE CONSTRUCTION

STANDARD PACK: 1 KIT		
PUMP MODEL	PART NUMBERS	
SIZE	CAST ALUMINUM	
6 PINT/POUND	LP-RP06TK	
12 PINT/POUND	LP-RP12TK	
20 PINT/POUND	LP-RP20TK	

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LPE SERIES ELECTRIC PUMPING SYSTEMS

ECONOMY—HEAVY DUTY—PERFORMANCE





LPE ELECTRIC PUMP PACKAGE

BENEFITS & FEATURES PRODUCT DESCRIPTION ECONOMY/SMALL SYSTEM AND HEAVY DUTY/LARGE SYSTEM PUMP PACKAGES AVAILABLE ELECTRIC MOTORIZED PUMPS AVAILABLE IN 12 & 24 VOLT MODELS 12 & 24 VDC MOTORS AVAILABLE IN BOTH SMALL AND LARGE MODELS SUITABLE FOR RUGGED OUTDOOR USE MINIMIZES SYSTEM AND OPERATIONAL COSTS 2.5 CC (ECONOMY) & 3.2 CC (LARGE) PUMPING OUTPUTS DESIGNED TO BE COMPACT AND ECONOMICAL AVAILABLE WITH MAGNETIC AND PROXIMITY LOW LEVEL (PROXIMITY LOW LEVEL RECOMMENDED FOR LOW AVAILABLE WITH BUILT IN TIMER AND LOW TEMPERATURE AND HEAVY GREASE APPLICATIONS) LEVEL COMES STANDARD WITH 2.5 CC PUMPING UNIT 4KG, 6KG, 8KG, 10KG, PUMP PACKAGES AVAILABLE WITH EITHER TOP FILL OR STANDARD FILL LOCATIONS WITH PRV & GAGE ACCOMMODATES UP TO 3 PUMPING UNITS DESIGNED FOR BOTH OFF ROAD AND INDUSTRIAL APPLICATIONS STANDARD PRESSURE PUMPING UNIT FULLY ASSEMBLED AND SHIPPED READY FOR INSTALLATION

READY FOR IMMEDIATE SHIPMENT

MADE IN



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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

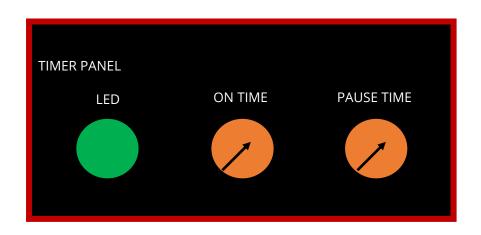
STANDARD PACK: 1 EACH				
ECONOMY ELECTRIC PUMP PACKAGE DESCRIPTION			PART NUMBERS	
COMPLETE PUMP PACKAGE	TIMER	LOW LEVEL	12 VOLT	24 VOLT
1	NO	NO	LPE-ECP1-12-0	LPE-ECP1-24-0
1	NO	YES	LPE-ECP1-12-1	LPE-ECP1-24-1
1	YES	NO	LPE-ECP1-12-2	LPE-ECP1-24-2
1	YES	YES	LPE-ECP1-12-3	LPE-ECP1-24-3
ADD ADDITIONAL 2.5 CC PUMPING UNIT W/ PRV	N/A	N/A	LPE-EC	CP1-PA





LPE-ECP1 SPECIFICATION SHEET

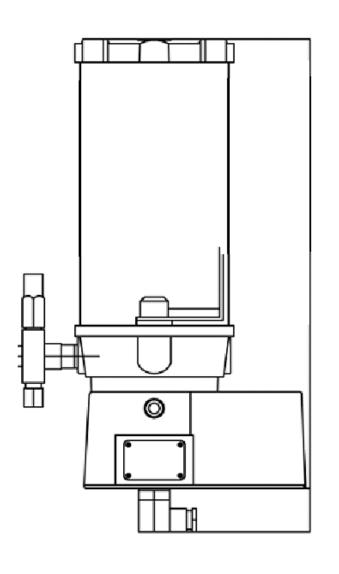
SPECIFICATIONS	
PART NUMBER	LPE-ECP1-XX-Y
MOTOR	ELECTRIC
VOLTAGE	12 VDC OR 24 VDC
MAX REVOLUTIONS PER MINUTE	20
AMP LOAD	0,8 AMPS (AT 4351 PSI AT 68° F)
INTERNATIONAL PROTECTION RATING	IP-65
RESERVOIR	POLYCARBONATE PLASTIC, TRANSPARENT
CAPACITY	6 LBS
MAX PSI / BAR	4351 PSI / 300 BAR
PUMPING (FLOW CONTROL 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

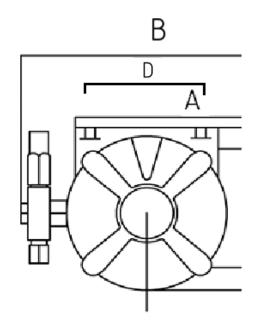


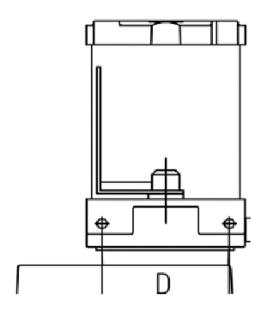
COMMAND FUNCTIONS			
VOLTAGE	10—30 V		
CURRENT	6 A (MAX)		
TEMPERATURE	-22° F TO 158° F		
FUNCTION	PAUSE—ON		
PROGRAMABLE ON TIME	2-32 MINUTES		
PROGRAMMABLE PAUSE TIME	30 MINUTES TO 8 HOURS		

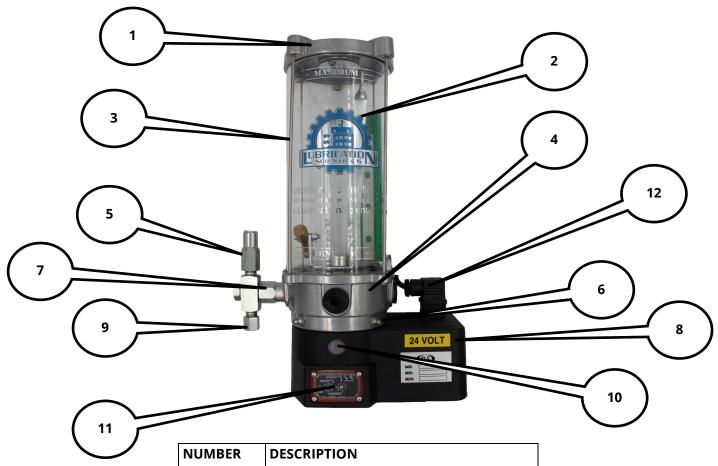
DIMENSIONS	
н	17.126"
Α	9.843"
В	12.205"
D	5.118"

Н









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 3.2 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					
L	LPE-XXX-PRV-XXX-XXX-XXX-XXX				
PUMP QUANTITY	PER PUMP OUTPUT CC per minute	XXX DESIGNATION NUMBER			
1	3.2 CC	124			
2	3.2 CC	224			
3	3.2 CC	324			
4	3.2 CC	424			
1	2.1 CC	125			
2	2.1 CC	225			
3	2.1 CC	325			
4	2.1 CC	425			
1	4.6 CC	126			
2	4.6 CC	226			
3	4.6 CC	326			
4	4.6 CC	426			

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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-XXX-XXX-XXX		
LOW LEVEL TYPE XXX DESIGNATION NUMBER		
MAGNETIC	MLL	
PROXIMITY	PLL	

3: RESERVOIR SIZE			
LPE-XXX-PRV-XXX-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-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-XXX-XXX-XXX			
SWITCH OPTION XXX DESIGNATION NUMBER			
NO SWITCH	000		
HIGH PRESSURE SWITCH	HPS		

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

BLANK ORDERING FORM

ELECTRIC PUMP HEAVY DUTY

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

LPE-	-PRV-	-	-	-		
	QUAN	TITY:				
LPE-	-PRV-					
		TITY:				
LPE-	-PRV					
	QUAN	TITY:				
LPE-	-PRV-	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	
	<u>QUAN</u>	TITY:				
	ADDITION	IAL PU	<u>MPINC</u>	S UNITS	<u>5</u>	
<u>LP</u>	<u>E-XP</u> -		Ç)TY:		
<u>LP</u>	<u>E-XP</u> -		Ç)TY:		
<u>LP</u>	<u>E-XP</u> -		Ç)TY:		
ΙP	F-XP -)TV·		

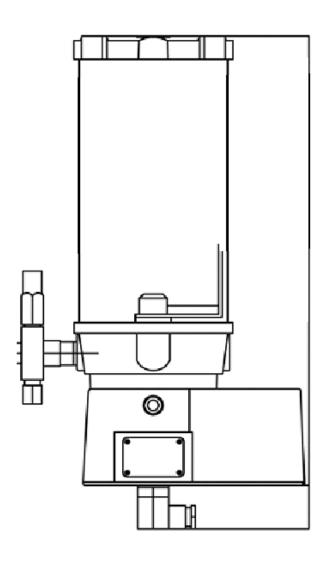
LPE-ECP1 SPECIFICATION SHEET

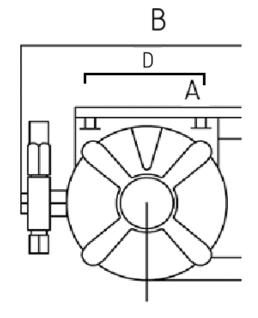
SPECIFICATIONS		
PART NUMBER	LPE-XXX-PRV-XXX-XXX-XXX-XXX	
MOTOR	ELECTRICAL	
POWER SUPPLY VOLTAGE	24 VDC	
NOMINAL CONSUMPTION	1A 12V-0,7A 24V	
MAX PEAK STARTING CONSUMPTION	3 A 24VDC	
MOTOR RPM	20	
PROTECTION	IP56	
TANK	TRANSPARENT POLYCARBONATE	
TANK CAPACITY	KG.4-KG.6-KG.10	
NO. OF PUMPING OUTLETS	FROM 1 TO 4	
STANDARD PUMPING ELEMENT	0.22CM3/STEP	
MAX GREASE FLOW RATE PER PUMPING ELE- MENT	·	
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	

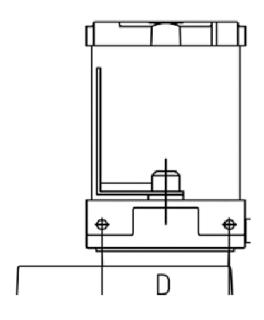


COMMAND FUNCTIONS	
VOLTAGE	10—30 VDC
MAX CONTINUOUS CURRENT	6 A (MAX)
TEMPERATURE	-22° F TO 158° F
FUNCTION	PAUSE—ON
PROGRAMABLE WORK TIME	2-32 MINUTES WORK
PROGRAMMABLE PAUSE TIME	.30 TO 8 HOUR PAUSE

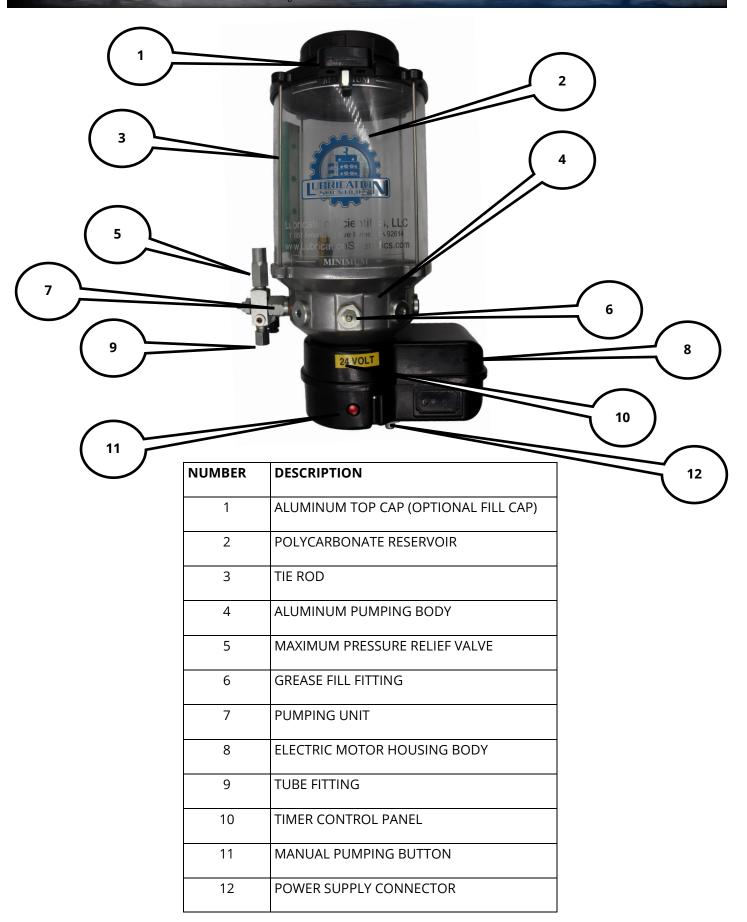
DIMENSIONS		
H, 6 KG	17.126"	
н, 8 кG	21.063"	
Н, 10 КG	25.000′′	
Α	9.843"	
В	12.205"	
D	5.118"	







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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 | 2.1 cc/ min LDPE-120 0.12 cm 3 /stroke | 3.2 cc/ min LDPE-170 0.17 cm 3 /stroke | 4.6 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
3.2 CC/MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY (STANDARD PUMP FOR ALL BASE PUMP PACKAGES)	0.12 cm ³ /stroke	LDPE-120
2.1 CC /MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY	0.06 cm ³ /stroke	
(MAY BE SUBSTITUTED ON ANY PUMP PACKAGE) (CONTACT CUSTOMER SERVICE TO SUBSTITUTE THIS PUMP)		LDPE-60
4.6 CC/MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY	0.17 cm ³ /stroke	LDPE-170
(MAY BE SUBSTITUTED ON ANY PUMP PACKAGE) (CONTACT CUSTOMER SERVICE TO SUBSTITUTE THIS PUMP)		== : = ,,, v
3.2CC PUMPING BODY ONLY	N/A	LPE-XP32

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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-PRV $0.06 \text{ cm}^3/\text{stroke} \mid 2.1 \text{ cc/min}$ LDPE-120-PRV $0.12 \text{ cm}^3/\text{stroke} \mid 3.2 \text{ cc/min}$ LDPE-170-PRV $0.17 \text{ cm}^3/\text{stroke} \mid 4.6 \text{ cc/min}$

MAX OPERATING PRESSURE: 5000 PSI

LUBRICANT: OIL & GREASE NLGI 2

WITH PRESSURE LIMITING VALVE

ADDITIONAL PUMP (S) PER BELOW PART NUMBER CONVERSION CHART	OUTPUT (PER STROKE)	PUMP ELEMENT PART NUMBER
3.2 CC/MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY	0.12 cm ³ /stroke	LDPE-120-PRV
(STANDARD PUMP FOR ALL BASE PUMP PACKAGES)		
2.1 CC /MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY	0.06 cm ³ /stroke	
(MAY BE SUBSTITUTED ON ANY PUMP PACKAGE)		LDPE-60-PRV
(CONTACT CUSTOMER SERVICE TO SUBSTITUTE THIS PUMP)		
4.6 CC/MIN PUMPING UNIT & PRESSURE RELIEF VALVE ASSEMBLY	0.17 cm ³ /stroke	
(MAY BE SUBSTITUTED ON ANY PUMP PACKAGE)		LDPE-170-PRV
(CONTACT CUSTOMER SERVICE TO SUBSTITUTE THIS PUMP)		
3.2CC PUMPING BODY ONLY	N/A	LPE-XP32

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	LPETU06
8 KG—ALL	LPE-TR8	LPETU08
10 KG—ALL	LPE-TR10	LPETU10

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

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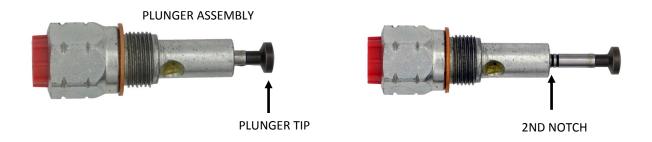
BULLETIN: LSM018 LAST REVISED 10/12/2018 17

PLUNGER INSTALLATION GUIDE FOR LPE-ECP-24 SERIES

ITEMS NEEDED: LPE PUMP, LPE-XP32 PLUNGER ASSEMBLY, AND CRESCENT WRENCH

STEP 1: REMOVE PLUNGER ASSEMBLY FROM PLASTIC CONTAINER. NOTE THE PLUNGER COMPONENTS AS SHOWN BELOW. THERE ARE THREE NOTCHES ON THE PLUNGER SHAFT. PULL PLUNGER OUT TO THE SECOND NOTCH AS SHOWN.

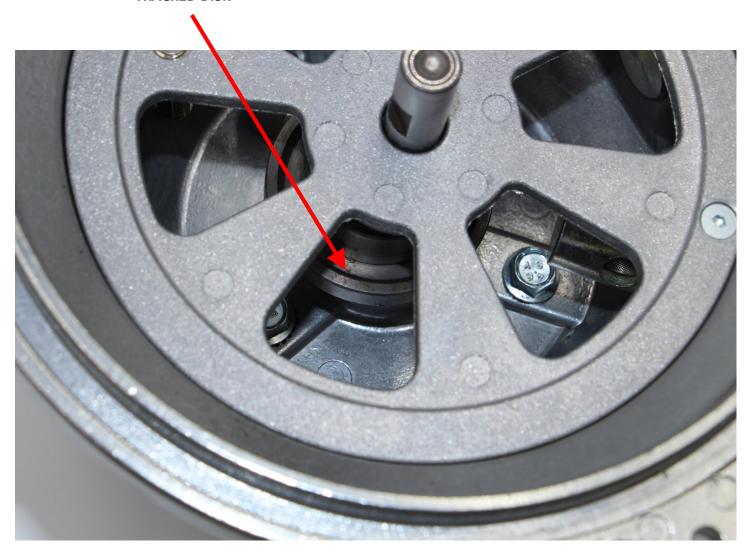




PLUNGER INSTALLATION GUIDE FOR LPE-ECP-24 SERIES

STEP 2: TAKE PUMP AND LOOK THROUGH THE TOP LUBRICATION SLOTS. NOTICE A <u>TRACKED DISK</u> 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.

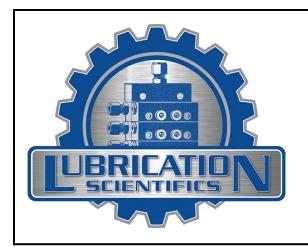
TRACKED DISK



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.





MANUAL PUMPS FOR CENTRALIZED LUBRICATION SYSTEMS





SERIES 1 MANUAL PUMP FOR SERIES PROGRESSIVE SYSTEMS

SERIES 2 MANUAL PUMP FOR INJECTOR SYSTEMS

READY FOR IMMEDIATE SHIPMENT

MADE IN



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MANUAL PUMPS FOR CENTRALIZED LUBRICATION SYSTEMS

PRODUCT DESCRIPTION

BENEFITS & FEATURES

MANUAL POWERED OIL AND GREASE PUMPS

AVAILABLE 6 PINT (2.84 LITER) / 6LB (2.72KG), 12 PINT (5.68 LITER) / 12LB (5.44KG), 20 PINT (9.46 LITER) / 20LB (9.06KG) RESERVOIR SIZES

PERFECT FOR IN-PLANT USE AND MACHINERY USE

COMPLETE READY TO USE ALL IN ONE PUMP
SYSTEMS

SINGLE ACTING POSITIVE DISPLACEMENT PUMP IS
DESIGNED TO MINIMIZE THE NUMBER OF MOVING PARTS
AND WEAR FOR EXTENDED LIFE AND DECREASED
MAINTENANCE

OPTIONAL PRESSURE RELIEVE VALVE PROTECTS SYSTEM FROM OVERPRESSURE

OPTIONAL OUTLET CHECK VALVE AVOIDS BACKPRESSURE FROM CAUSING PUMP FAILURE AND LOWERS THE RISK FOR CONTAMINANTS BEING INTRODUCED INTO THE LUBRICANT SUPPLY OR PUMP (FOR USE IN SERIES 1 SERIES PROGRESSIVE PUMPS ONLY)

WIDE VARIETY OF SYSTEM DESIGNS TAILORED TO APPLICATION SPECIFICATIONS

INDEX

DESCRIPTION	PAGE
SERIES #1 MANUAL PUMP FOR SERIES PROGRESSIVE SYSTEMS	3
SERIES #2 MANUAL PUMP FOR INJECTOR SYSTEMS	4

READY FOR IMMEDIATE SHIPMENT

MADE IN



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SERIES #1 MANUAL PUMP / SERIES PROGRESSIVE SYSTEMS



* FOR PUMP DIMENSIONS SEE PAGE 5

SERIES #1 MANUAL GREASE PUMP & RESERVOIR DESCRIPTION	PART NUMBER
SERIES 1 PUMP WITH 6LB GREASE RESERVOIR	LMNP-001-06G
SERIES 1 PUMP WITH 12LB GREASE RESERVOIR	LMNP-001-12G
SERIES 1 PUMP WITH 20LB GREASE RESERVOIR	LMNP-001-20G

SERIES #1 MANUAL OIL PUMP & RESERVOIRDESCRIPTION	PART NUMBER
SERIES 1 PUMP WITH 6PT OIL RESERVOIR	LMNP-001-06O
SERIES 1 PUMP WITH 12PT OIL RESERVOIR	LMNP-001-12O
SERIES 1 PUMP WITH 20PT OIL RESERVOIR	LMNP-001-200

BARE SERIES #1 MANUAL PUMP, NO RESERVOIR	PART NUMBER
BARE SERIES 1 PUMP, WITHOUT RESERVOIR	LMNP-001

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

FLUIDS / TECHNICAL DATA

- OIL AND GREASE
- PUMP OUTPUT: 0.16 CUIN / 2.6 CC
- MAXIMUM OPERATING PRESSURE: 3,000 PSI / 207 BAR
- HIGH PRESSURE RELIEF VALVE: 2,500 PSI / 172 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
- FORCE TO HANDLE: 29LB / 13.14KG PER 1,000 PSI / 69 BAR @ RATED PRESSURE

APPLICATIONS

IN-PLANT EQUIPMENT AND MACHINERY

SERIES #1 MANUAL GREASE/OIL PUMP ACCESSORY DESCRIPTION	PART NUMBER
PRESSURE GAUGE	LCB-15-6K-2
PRESSURE RELIEF VALVE	L5082500-NPTF
FILL STUD	L5215-H262

SERIES #2 MANUAL PUMP / INJECTOR SYSTEMS



* FOR PUMP DIMENSIONS SEE PAGE	5
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SERIES #2 MANUAL GREASE PUMP & RESERVOIR DESCRIPTION	PART NUMBER
SERIES 1 PUMP WITH 6LB GREASE RESERVOIR	LMNP-002-06G
SERIES 1 PUMP WITH 12LB GREASE RESERVOIR	LMNP-002-12G
SERIES 1 PUMP WITH 20LB GREASE RESERVOIR	LMNP-002-20G

SERIES #2 MANUAL OIL PUMP & RESERVOIR DESCRIPTION	PART NUMBER
SERIES 1 PUMP WITH 6PT OIL RESERVOIR	LMNP-002-060
SERIES 1 PUMP WITH 12PT OIL RESERVOIR	LMNP-002-120
SERIES 1 PUMP WITH 20PT OIL RESERVOIR	LMNP-002-200

BARE SERIES #2 MANUAL PUMP, NO RESERVOIR	PART NUMBER
BARE SERIES 1 PUMP, WITHOUT RESERVOIR	LMNP-002

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

FLUIDS / TECHNICAL DATA

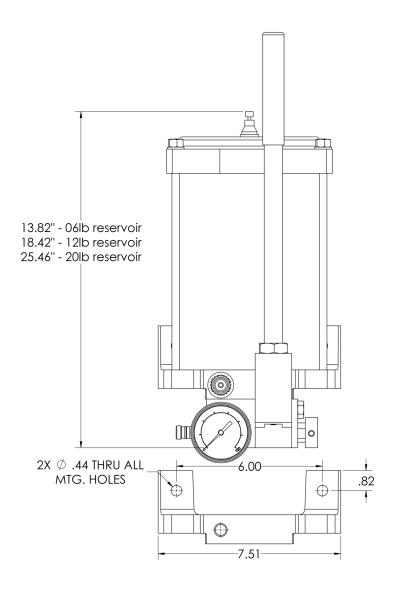
- OIL AND GREASE
- PUMP OUTPUT: 0.16 CUIN / 2.6 CC
- MAXIMUM OPERATING PRESSURE: 3,000 PSI / 207 BAR
- HIGH PRESSURE RELIEF VALVE: 2,500 PSI / 172 BAR
- RESERVOIR CAPACITIES: 6 PINT / 2.84 LITER, 6LB / 2.72KG, 12 PINT / 5.68 LITER, 12LB / 5.44KG, 20 PINT / 9.46 LITER, AND 20LB / 9.06KG
- FORCE TO HANDLE: 29LB / 13.14KG PER 1,000 PSI / 69 BAR @ RATED PRESSURE

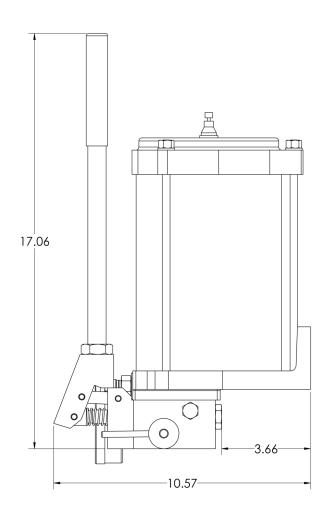
APPLICATIONS

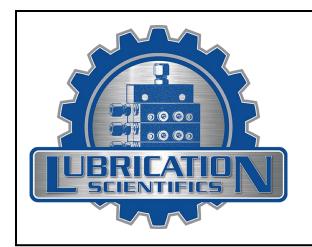
IN-PLANT EQUIPMENT AND MACHINERY

SERIES #2 MANUAL GREASE/OIL PUMP ACCESSORY DESCRIPTION	PART NUMBER
PRESSURE GAUGE	LCB-15-6K-2
PRESSURE RELIEF VALVE	L5082500-NPTF
FILL STUD	L5215-H262

MANUAL PUMP DIMENSIONS







PNEUMATIC PUMPS

GREASE/OIL BARREL, TRANSFER,
MECHANICAL RAM PUMPS
& ACCESSORIES

ECONOMY, STANDARD, HEAVY DUTY PUMPS, AND SYSTEMS



READY FOR IMMEDIATE SHIPMENT

MADE IN



PNEUMATIC PUMPS

GREASE/OIL BARREL, TRANSFER,
MECHANICAL RAM PUMPS & ACCESSORIES
ECONOMY, STANDARD, HEAVY DUTY PUMPS, AND SYSTEMS

PRODUCT DESCRIPTION	BENEFITS & FEATURES
	SUPERIOR QUALITY CONSTRUCTION
PNEUMATIC POWERED OIL AND GREASE PUMPS	STATE OF THE ART MODERN PUMP DESIGN
AVAILABLE IN ECONOMY, STANDARD-DUTY, & HEAVY- DUTY DESIGNS	1:1 OIL TRANSFER PUMPS AVAILABLE IN CRS AND STAINLESS STEEL (PERFECT FOR COMPRESSOR LUBRICATION SUPPLY TANKS)
	GREASE PUMPS AVAILABLE FROM 40:1 TO 80:1
PERFECT FOR SMALL, MEDIUM AND LARGE AUTOMATIC LUBE SYSTEMS	GREASE PRESSURES UP TO 8000 PSI
	SINGLE AND DOUBLE POST MECHANICAL RAM PUMPS AVAILABLE
PERFECT FOR AUTOMATIC LUBE SYSTEM AUTO-REFILL SYSTEMS	BULK GREASE TOTE PUMPS AVAILABLE
COMPLETE ACCESSORY AND MAINTENANCE KIT	EASIER AND FASTER TO REBUILD THAN COMPETITOR'S PUMPS
COMPLETE ACCESSORY AND MAINTENANCE KIT OFFERING	ALL REBUILD KITS IN STOCK

INDEX

ECONOMY GREASE PUMPS	PAGE 3	
STANDARD DUTY GREASE PUMPS	PAGE 4	
HEAVY DUTY GREASE PUMPS (40:1)	PAGE 5	
HEAVY DUTY GREASE PUMPS (70:1)	PAGE 6	
HEAVY DUTY GREASE PUMPS (80:1)	PAGE 7	
OIL TRANSFER PUMPS	PAGE 8	
SINGLE POST (ECONOMY) MECHANICAL RAM PUMPS	PAGE 9	
DOUBLE POST (HEAVY DUTY) MECHANICAL RAM PUMPS	PAGE 9	
DIMENSIONS - DOUBLE POST (HEAVY DUTY) MECHANICAL RAM PUMPS	PAGE 10	
ACCESSORIES	PAGE 11	
REPAIR KITS	PAGE 12, 13, 14, & 15	
INTERCHANGE	PAGE 16 &17	

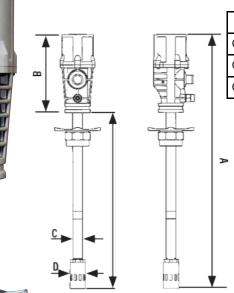
READY FOR IMMEDIATE SHIPMENT

MADE IN



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ECONOMY GREASE PUMPS 55:1 PUMP



ECONOMY GREASE PUMP DESCRIPTION	PART NUMBER
GREASE PUMP, ECONOMY SERIES, 55:1, 35 LB	L791150-022
GREASE PUMP, ECONOMY SERIES, 55:1, 120 LB	L791150-023
GREASE PUMP, ECONOMY SERIES, 55:1, 400 LB	L791150-024

DESIGNED FOR 25-35, 120 AND 400 LB DRUMS, PORTABE USE, AND SINGLE POINT DISPENSE. IDEAL FOR THE LOW VOLUME USER FOR GREASE FITTINGS ON SMALLER VEHICLES. DOUBLE ACTING POSITIVE DISPLACEMENT CAPABLE OF DELIVERING UP TO 1.2 LBS PER MINUTE.

FLUIDS / TECHNICAL DATA

- GREASE: UP TO NLGI-2
- PUMP RATIO: 55:1
- PUMP DELIVERY, 100 PSI (BAR) AIR PRESSURE AND FREE FLOW: 1.2 LB/ MIN (0,5 KG/MIN)
- OPERATING AIR PRESSURE: 20-140 PSI (1.5 -10 BAR)
- AIR CONSUMPTION: 90 PSI (6 BAR) & 110 CYCLES PER MIN 5.8 SCFM
- MAX FLUID STALL PRESSURE @140 PSI (10 BAR) AIR 7,700 PSI (550 BAR)
 - CYCLES PER LB @ 100 PSI (7 BAR) FREE FLOW: 318

APPLICATIONS

- COST EFFICIENT SMALL TO MEDIUM AUTOMATIC LUBRICATION SYSTEMS
- IN-PLANT LOW VOLUME USE



DIMENSIONS L791150-022 В C Ε 24" 16" 1 1/2" (610 MM) (200 MM) (26 MM) (410 MM) (38 MM) L791150-023 36 1/2" 28 1/2" 1 1/2" (200 MM) (26 MM) (725 MM) (925 MM) (38 MM) L791150-024 8" 36" 1 1/2" (1,120 MM) (200 MM) (26 MM) (920 MM) (38 MM)

DRUM COVERS, FOLLOWERS, & BUNG ADAPTERS 55:1 ECONOMY GREASE PUMPS

DRUM SIZE	DRUM COVER PART NUMBER	FOLLOWER PLATE PART NUMBER	BUNG ADAPTER PART NUMBER
35 LB	L794420-010	L794440-013	L794411-023
120 LB	L794420-011	L794440-014	L794411-023
400 LB	L794420-015	L794440-018	L794411-023

FIT MULTIPLE PUMP SIZES



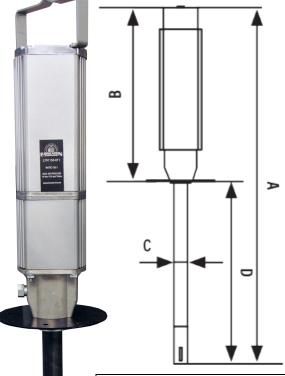








STANDARD DUTY GREASE PUMPS 50:1 PUMP



STANDARD DUTY GREASE PUMP DESCRIPTION	PART NUMBER
GREASE PUMP, STANDARD DUTY, 50:1 35 LB	L791150-009
GREASE PUMP, STANDARD DUTY, 50:1, 120 LB	L791150-010
GREASE PUMP, STANDARD DUTY, 50:1, 400 LB	L791150-011

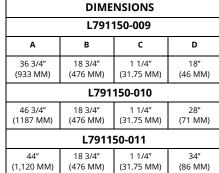
DESIGNED FOR LOWER VOLUME USERS UP TO 2 DISPENSE POINTS. USED WITH 25-35, 120 AND 400 LB DRUMS. PERFECT FOR LOWER GREASE FITTINGS ON VEHICLES. DOUBLE ACTING POSITIVE DISPLACEMEMENT CAPABLE OF DELIVERING UP TO 3.4 LBS PER MINUTE.

FLUIDS / TECHNICAL DATA

- GREASE: UP TO NLGI-2
- PUMP RATIO: 50:1
- OPERATING AIR PRESSURE: 40-150 PSI (2.8 -10 BAR)
- AIR CONSUMPTION: 100 PSI (7 BAR) & 1.5 LB/MIN (.68 KG/MIN) 14.5 SCFM
- MAX FLUID STALL PRESSURE @150 PSI (10 BAR) AIR 7,500 PSI (517 BAR)
- CYCLES PER LB @ 100 PSI (7 BAR) FREE FLOW: 70

APPLICATIONS

- MEDIUM TO MODERATLY LARGE AUTOMATIC LUBRICATION SYSTEMS
- IN-PLANT LOW VOLUME USE





DRUM COVERS, FOLLOWERS, & BUNG ADAPTERS 50:1 STANDARD DUTY GREASE PUMPS

DRUM SIZE	DRUM COVER PART NUMBER	FOLLOWER PLATE PART NUMBER	BUNG ADAPTER PART NUMBER
35 LB	L794420-008	L794440-007	L794411009N
120 LB	L794420-009	L794440-008	L794411009N
400 LB	L794420-004	L794440-009	L794411009N





FIT MULTIPLE PUMP SIZES





HEAVY DUTY GREASE PUMPS 40:1 450 SERIES PUMP

40:1 HEAVY DUTY GREASE PUMP DESCRIPTION	PART NUMBER
GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 40:1, 400 LB	L791450-002
GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 40:1, 120 LB	L791450-003
GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 40:1, BULK TOTE	L791450-004

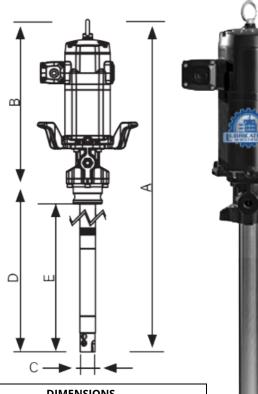
DESIGNED FOR MEDIUM VOLUME APPLICATIONS THAT REQUIRE HIGHER FLOW AND PRESSURE DELIVERY. CAN BE COMBINED WITH A FOLLOWER PLATE, GRAVITY MECHANICAL RAM SYSTEM, OR A DOUBLE POST RAM FOR SIMULTANEOUS DISPENSE, AND HIGHER FLOW APPLICATIONS.

FLUIDS / TECHNICAL DATA

- GREASE: UP TO NLGI-2
- CONTINOUS DUTY FLOW RATE: 8 LB/MIN (3.5 KG/MIN)
- MAXIMUM FREE FLOW: 24 LB/MIN (11KG/MIN)
- CYCLES PER LB: 10
- OPERATING AIR PRESSURE: 30-200 PSI (1.38 14 BAR)
- MAXIMUM OUTLET PRESSURE: 8,000 PSI (560 BAR)

APPLICATIONS

- LARGE AUTOMATIC LUBRICATION SYSTEMS
- AUTOMATIC REFILL SYSTEMS



DIMENSIONS					
	L	791450-00	2		
A B C D E					
53 1/4" (1,357 MM)	19 3/4" (502 MM)	2" (50 MM)	33 1/2" (855 MM)	N/A	
	L	791450-00	3		
45 1/4" (1,152 MM)	19 3/4" (502 MM)	2" (50 MM)	25 1/2" (650 MM)	N/A	
L791450-004					
39" (992 MM)	19 3/4" (502 MM)	2" (50 MM)	19 1/4" (490 MM)	16 1/4" (410 MM)	

DRUM COVERS, FOLLOWERS, & BUNG ADAPTERS 40:1 450 SERIES HEAVY DUTY GREASE PUMPS

DRUM SIZE	DRUM COVER PART NUMBER	FOLLOWER PLATE PART NUMBER	BUNG ADAPTER MALE PART NUMBER	BUNG ADAPTER FEMALE PART NUMBER
120 LB	L794420-014	L794440-017	L794140058	L794140059
400 LB	L794420-013	L794440-015	L794140058	L794140059

FIT MULTIPLE PUMP SIZES







FOR REPAIR KITS SEE PAGE 13

HEAVY DUTY GREASE PUMPS 70:1 450 SERIES PUMP

70:1 HEAVY DUTY GREASE PUMP DESCRIPTION	PART NUMBER
GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 70:1, 400 LB	L791450-005
GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 70:1, 120 LB	L791450-006
GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 70:1, BULK TOTE	L791450-007

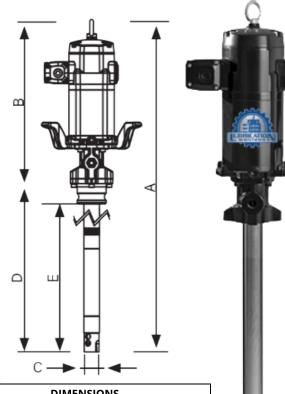
DESIGNED FOR VERY COLD ENVIRONMENTS AND/OR APPLICATIONS WHERE ONLY MEDIUM PRESSURE AIR IS AVAILABLE. CAN BE COMBINED WITH A FOLLOWER PLATE, GRAVITY MECHANICAL RAM SYSTEM, OR A DOUBLE POST RAM FOR SIMULTANEOUS DISPENSE, AND HIGHER FLOW APPLICATIONS.

FLUIDS / TECHNICAL DATA

- GREASE: UP TO NLGI-2
- CONTINOUS DUTY FLOW RATE: 5 LB/MIN (2 KG/MIN)
- MAXIMUM FREE FLOW: 16 LB/MIN (7.25 KG/MIN)
- CYCLES PER LB: 17
- OPERATING AIR PRESSURE: 30-100 PSI (1.38 7 BAR)
- MAXIMUM OUTLET PRESSURE: 7,000 PSI (490 BAR)

APPLICATIONS

LARGE AUTOMATIC LUBRICATION SYSTEMS



DIMENSIONS					
L791450-005					
A B C D E					
53 1/4" (1,357 MM)	19 3/4" (502 MM)	2" (50 MM)	33 1/2" (855 MM)	N/A	
	L	791450-00	6		
45 1/4" (1,152 MM)	19 3/4" (502 MM)	2" (50 MM)	25 1/2" (650 MM)	N/A	
L791450-007					
39" (992 MM)	19 3/4" (502 MM)	2" (50 MM)	19 1/4" (490 MM)	16 1/4" (410 MM)	

DRUM COVERS, FOLLOWERS, & BUNG ADAPTERS 70:1 450 SERIES HEAVY DUTY GREASE PUMPS

DRUM SIZE	DRUM COVER PART NUMBER	FOLLOWER PLATE PART NUMBER	BUNG ADAPTER MALE PART NUMBER	BUNG ADAPTER FEMALE PART NUMBER
120 LB	L794420-014	L794440-017	L794140058	L794140059
400 LB	L794420-013	L794440-015	L794140058	L794140059

FIT MULTIPLE PUMP SIZES







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HEAVY DUTY GREASE PUMPS 80:1 600 SERIES PUMP

80:1 HEAVY DUTY GREASE PUMP DESCRIPTION	PART NUMBER
GREASE PUMP, HEAVY DUTY, 6.0" MOTOR, 80:1, 400 LB	L791450-008
GREASE PUMP, HEAVY DUTY, 6.0" MOTOR, 80:1, 120 LB	L791450-009

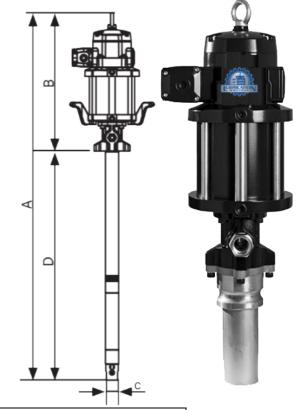
DESIGNED FOR VERY COLD ENVIRONMENTS AND/OR APPLICATIONS WHERE ONLY MEDIUM PRESSURE AIR IS AVAILABLE. CAN BE COMBINED WITH A FOLLOWER PLATE, GRAVITY MECHANICAL RAM SYSTEM, OR A DOUBLE POST RAM FOR SIMULTANEOUS DISPENSE, AND HIGHER FLOW APPLICATIONS. SIMILAR TO THE 70:1 GREASE PUMP BUT OPERATES AT LOWER CYCLE RATES FOR SEVERE ENVIRONMENTS.

FLUIDS / TECHNICAL DATA

- GREASE: UP TO NLGI-2
- CONTINOUS DUTY FLOW RATE: 6 LB/MIN (2.5 KG/MIN)
- MAXIMUM FREE FLOW: 18 LB/MIN (8 KG/MIN)
- CYCLES PER LB: 11
- OPERATING AIR PRESSURE: 30-100 PSI (1.38 7 BAR)
- MAXIMUM OUTLET PRESSURE: 8,000 PSI (560 BAR)

APPLICATIONS

VERY LARGE AUTOMATIC LUBRICATION SYSTEMS



DIMENSIONS				
	L791450-008			
A B C D				
53 1/2" (1,371 MM)	20" (516 MM)	2" (50 MM)	33 1/2" (855 MM)	
L791450-009				
45 1/2" (1,166MM)	20" (516 MM)	2" (50 MM)	25 1/2" (650 MM)	

DRUM COVERS, FOLLOWERS, & BUNG ADAPTERS 80:1 600 SERIES HEAVY DUTY GREASE PUMPS

DRUM SIZE	DRUM COVER PART NUMBER	FOLLOWER PLATE PART NUMBER	BUNG ADAPTER MALE PART NUMBER	BUNG ADAPTER FEMALE PART NUMBER
120 LB	L794420-014	L794440-017	L794140058	L794140059
400 LB	L794420-013	L794440-015	L794140058	L794140059

FIT MULTIPLE PUMP SIZES







OIL TRANSFER PUMPS 1:1—CRS & STAINLESS STEEL PUMP

TRANSFER PUMP DESCRIPTION	PART NUMBER
TRANSFER PUMP, 1:1, SS, W/ BUNG ADAP	L791160-008
TRANSFER PUMP, 1:1, CRS, W/BUNG ADAP	L791110-010

DESIGNED FOR SMALL VOLUME USERS, FOR SYNTHETICS, GEAR OILS, AND STANDARD MINERAL OILS.

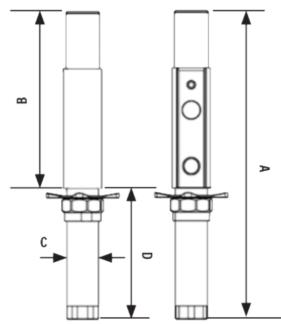
FLUIDS

- SYNTHETIC AND MINERAL BASED LUBRICANTS
- HYDRAULIC FLUID
- TRANSMISION FLUID
- ANTI-FREEZE/WINDSHEILD WASK FLUID (COMPATIBLE ONLY WITH STAINLESS STEEL)

APPLICATIONS

LUBRICATION SYSTEM DAY TANKS





	DIMENSIONS			
	L791110-008			
Α	В	С	D	
48 4/5" (1,239.5 MM)	12 1/5" (309.9 MM)	2 4/5" (309.9 MM)	36 1/2" (927 MM)	
L791110-009				
48 23/32" (1,212 MM)	11 2/9" (285 MM)	2 4/5" (309.9 MM)	36 1/2" (927 MM)	

FOR USE WITH	SUCTION TUBE DESCRIPTION	PART NUMBER
16 GAL DRUM	SUCTION PICKUP TUBE, TRANSFER PUMP, 18"	L794412-044
165/280 GAL BENCH TANK	SUCTION PICKUP TUBE, TRANSFER PUMP, 21"	L794412-045
55 GAL DRUM	SUCTION PICKUP TUBE, TRANSFER PUMP, 26"	L794412-046
250 GAL BENCH TANK DOUBLE TAP	SUCTION PICKUP TUBE, TRANSFER PUMP, 28"	L794412-047
165/280 GAL BENCH TANK DOUBLE TAP	SUCTION PICKUP TUBE, TRANSFER PUMP, 30"	L794412-048
275 GAL TOTE	SUCTION PICKUP TUBE, TRANSFER PUMP, 32"	L794412-049
330 GAL TOTE	SUCTION PICKUP TUBE, TRANSFER PUMP, 39"	L794412-050
275/330 GAL HOIZONTAL OBROUND DOUBLE TAP	SUCTION PICKUP TUBE, TRANSFER PUMP, 42"	L794412-051
330 GAL VERTICAL OBROUND	SUCTION PICKUP TUBE, TRANSFER PUMP, 60"	L794412-052



FOR REPAIR KITS SEE PAGE 15

SINGLE POST (ECONOMY) MECHANICAL RAM PUMPS

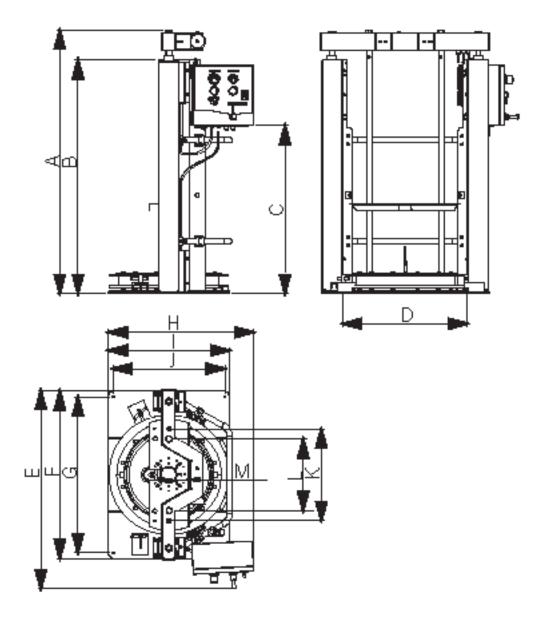


DOUBLE POST (HEAVY DUTY) MECHANICAL RAM PUMPS



DESCRIPTION	PART NUMBER	DESCRIPTION (SEE DIMENSIONS ON PAGE 8)	MODELS AVAILABLE
GREASE PUMP, HEAVY DUTY MECHANICAL RAM SYSTEM, 40:1, 400 LB *		MECHANICAL RAM, DOUBLE POST AIR OPERATED.	L794450-004
GREASE PUMP, HEAVY DUTY MECHANICAL RAM SYSTEM, 70:1, 400 LB *	L791451-005	450, 40:1 PUMP DOUBLE POST MECHANICAL RAM. INCLUDES:	L791451-001
GREASE PUMP, HEAVY DUTY MECHANICAL RAM SYSTEMS, 80:1, 400 LB *	L791451-006		
*FOR PUMP SPECIFICATIONS AND DIMENSIONS REFER TO PAGES 5, 6, OR 7.		PACKAGE, 450, 70:1 PUMP DOUBLE POST MECHANICAL RAM. INCLUDES: L791450-006 450, 70:1 PUMP L794450-004 DOUBLE POST MECHANICAL RAM KIT, COLLAR/FOLLOWER-PLATE PACKAGE, 600, 80:1 PUMP DOUBLE POST MECHANICAL	L791451-002
FLOOR MOUNTING SINGLE BE		RAM.	
BASE FOR GREASE HOIST & MECHANICAL RAM	L794450-005	INCLUDES: L791450-009 600, 80:1 PUMP L794450-004 DOUBLE POST MECHANICAL RAM KIT, COLLAR/FOLLOWER-PLATE	
		PACKAGE, 600, 12:1 PUMP DOUBLE POST MECHANICAL RAM. INCLUDES: L791450-010 600, 12:1 PUMP L794450-004 DOUBLE POST MECHANICAL RAM KIT, COLLAR/FOLLOWER-PLATE	L791451-007

DIMENSIONS - DOUBLE POST (HEAVY DUTY) MECHANICAL RAM PUMPS



DIMENSIONS INCHES (MM)							
A LOWERED/ RAISED	В	С	D	E	F	G	Н
52" (1,320 mm) 88" (2,230 mm)	45 1/2" (1,156 mm)	32 2/3" (830 mm)	24 1/2" (74 mm)	38 3/4" (554 mm)	32 2/3" (830 mm)	30 1/3" (771 mm)	28 1/3" (720 mm)
I LOWERED/ RAISED	J	К	L	M			
23 2/3" (600 mm)	213/4" (554 mm)	18" (455 mm)	14" (355 mm)	4" (104 mm)			

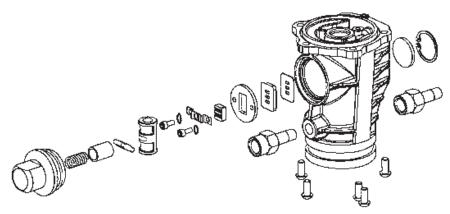
ACCESSORIES

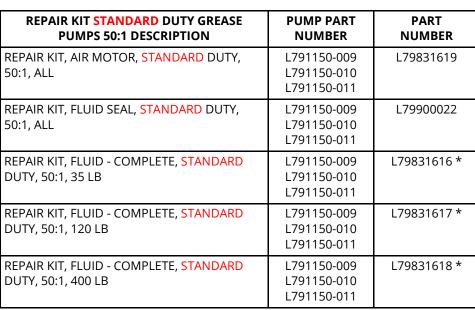
		1704400 000 HU FT GGDEFT			
Inlet Screen Mesh		L794430-003, INLET SCREEN, 30- MESH 50:1			
		L794430-004, INLET SCREEN, 30- MESH GREASE PUMP			
Grease Handles		L793310-008, GREASE HANDLE	Pump Runaway Control		L793241-002, PUMP RUNAWAY CONTROL 1/4" NPT(F)
		L793310-010, GREASE HANDLE WITH Z-SWIVEL			L793241-001, PUMP RUNAWAY CONTROL
		L793310-025, GREASE HANDLE WITH 18" WHIP HOSE AND Z-SWIVEL	Connecting		1/2" NPT(F)
		L793310-020, GREASE HANDLE WITH 36" WHIP HOSE AND Z-SWIVEL	Hose Kit	18	CONNECTING HOSE KIT W/GREASE HANDLE FOR GREASE
		L793310-007, GREASE HANDLE			L794410-036, CONNECTING HOSE KIT FOR GREASE
		L793310-009, BOOSTER GREASE HANDLE WITH Z-SWIVEL		-	L794410-030, CONNECTING HOSE KIT FOR GREASE:
	R	L793310-030, COMFORT GRIP GREASE HANDLE			
		L793310-031, COMFORT GRIP GREASE HANDLE WITH 18" WHIP HOSE AND Z- SWIVEL			
		L793310-032, COMFORT GRIP GREASE HANDLE WITH 36" WHIP HOSE AND Z- SWIVEL	Holster		L794420-012, HOLSTER, GREASE GUN HOLDER FOR DRUM COVER L794420-010
	W.		Cam-lock	-	L794140-058, MALE
Other		L798390-002, 18" WHIP HOSE HP L798390-003, 36" WHIP HOSE HP			CAM-LOCK 3" 450/600 FOR TOTE APPLICATIONS
Accessories		L798390-003, 36 WHIP HOSE HP L798390-004, 42" WHIP HOSE HP			
		MAX. PRESSURE 5,000 PSI (345 BAR) HOSE END 1/8" NPT(M) ON BOTH ENDS COMPATIBLE FLUID NLGI LB2 GREASE FLEXIBLE EXTENSION		A	L794140-059, FEMALE CAM-LOCK 3" 450/600 FOR TOTE APPLICATIONS
		L795310-018, Z-SWIVEL 1/4" NPT(F) X 1/4" NPT(M)	Filter Regulator		L793260-036, F/R AUTO DRAIN 1/2" NPT (F)
	A	L795200-017, QUICK LOCK GREASE COUPLER 1/8" NPT(F)			
		L795310-024, GREASE COUPLER 4-JAWS			
		L795400-003, BEARING PACKER			

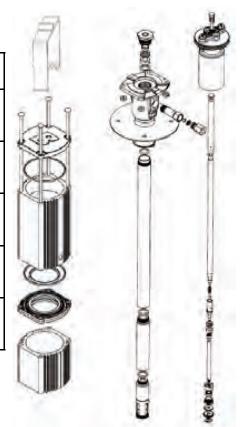
PISTON PUMP REPAIR KITS FOR GREASE PUMPS

REPAIR KIT ECONOMY GREASE PUMPS 55:1 DESCRIPTION	PUMP PART NUMBER	REPAIR KIT PART NUMBER
REPAIR KIT, AIR MOTOR, ECONOMY, 55:1, ALL	L791150-022 L791150-023 L791150-024	L79833038
REPAIR KIT, PACKING SEAL, ECONOMY, 55:1, ALL	L791150-022 L791150-023 L791150-024	L79833039
REPAIR KIT, FOOT VALVE, ECONOMY, 55:1, ALL	L791150-022 L791150-023 L791150-024	L79833040
REPAIR KIT, HP PISTON/CYL & CHECK, ECONOMY, 55:1, ALL	L791150-022 L791150-023 L791150-024	L79833041









^{*}AVAILABLE BY SPECIAL ORDER ONLY FIT MULTIPLE PUMP SIZES

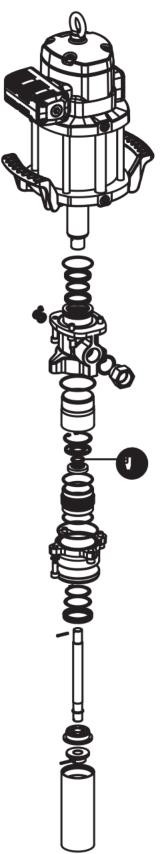
PISTON PUMP REPAIR KITS FOR GREASE PUMPS (CONTINUED)

REPAIR KIT HEAVY DUTY GREASE PUMPS 40:1 450 SERIES DESCRIPTION	PUMP PART NUMBER	PART NUMBER
REPAIR KIT, LOWER SEAL KIT, ALL 40:1 PUMPS	L791450-002 L791450-003 L791450-004	L79833409
REPAIR KIT, FOOT VALVE, HEAVY DUTY, ALL 40:1	L791450-002 L791450-003 L791450-004	L79833410
REPAIR KIT, UPPER VALVE KIT, ALL 40:1	L791450-002 L791450-003 L791450-004	L79833411
REPAIR KIT, AIR MTR SEAL KIT, ALL 40:1	L791450-002 L791450-003 L791450-004	L79833412
REPAIR KIT, EXH MUFFLER KIT, ALL HEAVY DUTY 40:1	L791450-002 L791450-003 L791450-004	L79833413
REPAIR KIT, SPOOLS/SEAL KIT, ALL HEAVY DUTY 40:1	L791450-002 L791450-003 L791450-004	L79833414
COLLAR/FOLLOWER PLATE, 40:1 400LB	L791450-002	L79833650 *

^{*}AVAILABLE BY SPECIAL ORDER ONLY FIT MULTIPLE PUMP SIZES

REPAIR KIT HEAVY DUTY GREASE PUMPS 70:1 450 SERIES DESCRIPTION	PUMP PART NUMBER	PART NUMBER
REPAIR KIT, UPPER VALVE KIT, ALL 70:1	L791450-005 L791450-006 L791450-007	L79833411
REPAIR KIT, AIR MTR SEAL KIT, ALL 70:1	L791450-005 L791450-006 L791450-007	L79833412
REPAIR KIT, EXH MUFFLER KIT, ALL HEAVY DUTY 70:1	L791450-005 L791450-006 L791450-007	L79833413
REPAIR KIT, SPOOLS/SEAL KIT, ALL HEAVY DUTY 70:1	L791450-005 L791450-006 L791450-007	L79833414
REPAIR KIT, LOWER SEAL KIT, ALL 70:1 PUMPS	L791450-005 L791450-006 L791450-007	L79833598
REPAIR KIT, FOOT VALVE, HEAVY DUTY, ALL 70:1	L791450-005 L791450-006 L791450-007	L79833599
COLLAR/FOLLOWER PLATE, 70:1 120LB	L791450-006	L79833650 *

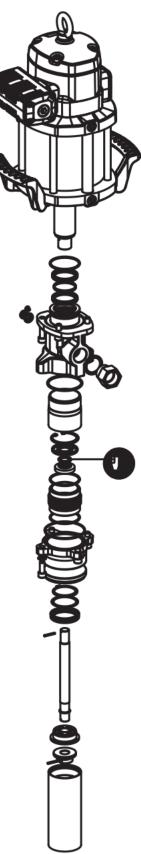
^{*}AVAILABLE BY SPECIAL ORDER ONLY FIT MULTIPLE PUMP SIZES



PISTON PUMP REPAIR KITS FOR GREASE PUMPS (CONTINUED)

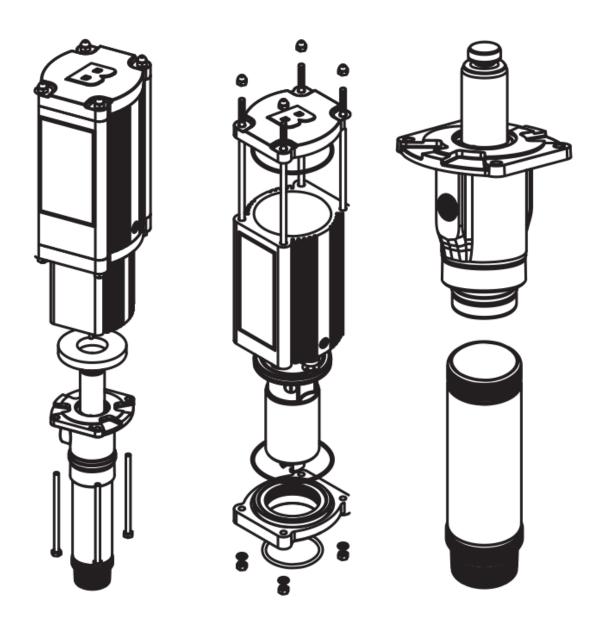
REPAIR KIT HEAVY DUTY GREASE PUMPS 80:1 600 SERIES DESCRIPTION	PUMP PART NUMBER	PART NUMBER
REPAIR KIT, LOWER SEAL KIT, ALL 80:1 PUMPS	L791450-008 L791450-009	L79833409
REPAIR KIT, EXH MUFFLER KIT, ALL HEAVY DUTY 80:1	L791450-008 L791450-009	L79833413
REPAIR KIT, SPOOLS/SEAL KIT, ALL HEAVY DUTY 80:1	L791450-008 L791450-009	L79833414
COLLAR/FOLLOWER PLATE, 80:1 120LB	L791450-009	L79833650 *
REPAIR KIT, AIR MTR SEAL KIT, ALL 6.0" MTR, 80:1	L791450-008 L791450-009	L79833511

^{*}AVAILABLE BY SPECIAL ORDER ONLY FIT MULTIPLE PUMP SIZES



PISTON PUMP REPAIR KITS FOR OIL PUMPS

REPAIR KIT OIL TRANSFER PUMPS 1:1—CRS & STAINLESS STEEL DESCRIPTION	PUMP PART NUMBER	PART NUMBER
1:1 REPAIR KIT, L791160-008 SS PUMP	L791160-008	L79832953
1:1 REPAIR KIT, L791110-010 CRS PUMP	L791110-010	L79833109
1:1 REPAIR KIT, AIR VALVE L791110-010 CRS PUMP	L791110-010	L79833110



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LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

PART NUMBER INTERCHANGE

LINCOLN PART NUMBER	GRACO PART NUMBER	LUBRICATION SCIENTIFICS	PRODUCT DESCRIPTION	
N/A	77X540	L527680-NO-000	24 VDC ELECTRIC VENT VALVE	
84080-9	N/A	L791160-008	TRANSFER PUMP, 1:1, SS, W/BUNG ADAP	
4490/84829	N/A	L791110-010	TRANSFER PUMP, 1:1, CRS, W/BUNG ADAP	
N/A	N/A	L794412-044	SUCTION PICKUP TUBE, TRANSFER PUMP, 18"	
N/A	N/A	L794412-045	SUCTION PICKUP TUBE, TRANSFER PUMP, 21"	
N/A	N/A	L794412-046	SUCTION PICKUP TUBE, TRANSFER PUMP, 26"	
N/A	N/A	L794412-047	SUCTION PICKUP TUBE, TRANSFER PUMP, 28"	
N/A	N/A	L794412-048	SUCTION PICKUP TUBE, TRANSFER PUMP, 30"	
N/A	N/A	L794412-049	SUCTION PICKUP TUBE, TRANSFER PUMP, 32"	
N/A	N/A	L794412-050	SUCTION PICKUP TUBE, TRANSFER PUMP, 39"	
N/A	N/A	L794412-051	SUCTION PICKUP TUBE, TRANSFER PUMP, 42"	
N/A	N/A	L794412-052	SUCTION PICKUP TUBE, TRANSFER PUMP, 60"	
N/A	N/A	L791150-022	GREASE PUMP, ECONOMY SERIES, 55:1, 35LB	
82050	N/A	L791150-023	GREASE PUMP, ECONOMY SERIES, 55:1, 120LB	
82054	N/A	L791150-024	GREASE PUMP, ECONOMY SERIES, 55:1, 400LB	
N/A	N/A	L794420-010	DRUM COVER, ECON SERIES, 55:1, 35LB	
N/A	N/A	L794440-013	FOLLOWER, ECON SERIES, 55:1, 35LB	
46007	N/A	L794420-011	DRUM COVER, ECON SERIES, 55:1, 120LB	
84780	N/A	L794440-014	FOLLOWER, ECON SERIES, 55:1, 120LB	
81523	N/A	L794420-015	DRUM COVER, ECON SERIES, 55:1, 400LB	
83366	N/A	L794440-018	FOLLOWER, ECON SERIES, 55:1, 400LB	
N/A	N/A	L794411-023	BUNG ADAPTER, ECON SERIES 55:1, ALL	
N/A	N/A	L79833038	REPAIR KIT, AIR MOTOR, ECON, 55:1, ALL	
N/A	N/A	L79833039	REPAIR KIT, PACKING SEAL, ECON, 55:1, ALL	
N/A	N/A	L79833040	REPAIR KIT, FOOT VALVE, ECON, 55:1, ALL	
N/A	N/A	L79833041	REPAIR KIT, HP PISTON/CYL & CHECK, ECON, 55:1, ALL	
N/A	N/A	L791150-009	GREASE PUMP, STANDARD DUTY, 50:1, 35LB	
84667	N/A	L791150-010	GREASE PUMP, STANDARD DUTY, 50:1, 120LB	
84668	N/A	L791150-011	GREASE PUMP, STANDARD DUTY, 50:1, 400LB	
N/A	N/A	L794420-008	DRUM COVER, STD DUTY SERIES, 50:1, 35LB	
N/A	N/A	L794440-007	FOLLOWER, STD DUTY SERIES, 50:1, 35LB	
81538	N/A	L794420-009	DRUM COVER, STD DUTY SERIES, 50:1, 120LB	
84780	N/A	L794440-008	FOLLOWER, STD DUTY SERIES, 50:1, 120LB	
81412	N/A	L794420-004	DRUM COVER, STD DUTY SERIES, 50:1, 400LB	
83369	N/A	L794440-009	FOLLOWER, STD DUTY SERIES, 50:1, 400LB	
N/A	N/A	L794411009N	BUNG ADAPTER, STD DUTY SERIES 50:1, ALL	
N/A	N/A	L79831619	REPAIR KIT, AIR MOTOR, STD DUTY, 50:1, ALL	
N/A	N/A	L79900022	REPAIR KIT, FLUID SEAL, STD DUTY, 50:1, ALL	
N/A	N/A	L79831616	REPAIR KIT, FLUID - COMPLETE, STD DUTY, 50:1, 35LB	
N/A	N/A	L79831617	REPAIR KIT, FLUID - COMPLETE, STD DUTY, 50:1, 120LB	
N/A	N/A	L79831618	REPAIR KIT, FLUID - COMPLETE, STD DUTY, 50:1, 400LB	
2011	N/A	L791450-003	GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 40:1, 120LB	
2010	N/A	L791450-002	GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 40:1, 400LB	
N/A	N/A	L791450-004	GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 40:1, BULK TOTE	
1908	N/A	L791450-006	GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 70:1, 120LB	
1904	N/A	L791450-005	GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 70:1, 400LB	
N/A	N/A	L791450-007	GREASE PUMP, HEAVY DUTY, 4.5" MOTOR, 70:1, BULK TOTE	
2008	N/A	L791450-009	GREASE PUMP, HEAVY DUTY, 6.0" MOTOR, 80:1, 120LB	

DISCLAIMER: Lubrication Scientifics, LLC assumes no responsibility for errors or omissions which may have occurred.

While every effort is made to attain accurate information, it is ultimately the responsibility of the distributor and/or customer to verify the accuracy of the information.

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LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

PART NUMBER INTERCHANGE

LINCOLN PART NUMBER	GRACO PART NUMBER	LUBRICATION SCIENTIFICS PART NUMBER	PRODUCT DESCRIPTION
2004	N/A	L791450-008	GREASE PUMP, HEAVY DUTY, 6.0" MOTOR, 80:1, 400LB
81538	N/A	L794420-014	DRUM COVER, HEAVY DUTY SERIES, 4.5" & 6.0" MTR, ALL 120LB
84780	N/A	L794440-017	FOLLOWER, HEAVY DUTY SERIES, 4.5" & 6.0" MTR, ALL 120LB
81412	N/A	L794420-013	DRUM COVER, HEAVY DUTY SERIES, 4.5" & 6.0" MTR, ALL 400LB
83369	N/A	L794440-015	FOLLOWER, HEAVY DUTY SERIES, 4.5" & 6.0" MTR, ALL 400LB
N/A	N/A	L794140058	BUNG ADAPTER, HEAVY DUTY SERIES, MALE CAM LOCK, ALL
N/A	N/A	L794140059	BUNG ADAPTER, HEAVY DUTY SERIES, FEMALE CAM LOCK, ALL
N/A	N/A	L79833409	REPAIR KIT, LOWER SEAL KIT, ALL 40:1 & 80:1 PUMPS
N/A	N/A	L79833410	REPAIR KIT, FOOT VALVE, HEAVY DUTY, ALL 40:1
N/A	N/A	L79833411	REPAIR KIT, UPPER VALVE KIT, ALL 40:1 & 70:1
N/A	N/A	L79833412	REPAIR KIT, AIR MTR SEAL KIT, ALL 40:1 & 70:1
N/A	N/A	L79833413	REPAIR KIT, EXH MUFFLER KIT, ALL HEAVY DUTY 40:1, 70:1, & 80:1
N/A	N/A	L79833414	REPAIR KIT, SPOOLS/SEAL KIT, ALL HEAVY DUTY 40:1, 70:1, & 80:1
N/A	N/A	L79833650	COLLAR/FOLLOWER PLATE, 40:1 400LB, 70:1 120LB & 80:1 120LB
N/A	N/A	L79833598	REPAIR KIT, LOWER SEAL KIT, ALL 70:1 PUMPS
N/A	N/A	L79833599	REPAIR KIT, FOOT VALVE, HEAVY DUTY, ALL 70:1
N/A	N/A	L79833511	REPAIR KIT, AIR MTR SEAL KIT, ALL 6.0" MTR, 80:1
2790	N/A	L791451-004	GREASE PUMP, HEAVY DUTY MECHANICAL RAM SYSTEM, 40:1, 400LB
2716/2010	N/A	L791451-005	GREASE PUMP, HEAVY DUTY MECHANICAL RAM SYSTEM, 70:1, 400LB
2716/2004	N/A	L791451-006	GREASE PUMP, HEAVY DUTY MECHANICAL RAM SYSTEMS, 80:1, 400LB
N/A	N/A	L794450005	BASE FOR GREASE HOIST & MECHANICAL RAM



FOR CENTRALIZED LUBRICATION SYSTEMS



READY FOR IMMEDIATE SHIPMENT

MADE IN



LMAG PNEUMATIC PUMP FOR CENTRALIZED

LUBRICATION SYSTEMS

OPTIONAL LOW LEVEL READY UPON REQUEST

BUILT WITH HIGH QUALITY MATERIAL TO WITHSTAND
THE HARSHEST ENVIRONMENTS

BENEFITS & FEATURES PRODUCT DESCRIPTION PERFECT FOR SMALLER INJECTOR SYSTEMS PNEUMATIC POWER FOR EASY INSTALL INTO EXISTING (LSL-32: UP TO 150 INJECTORS AND LSL-1: UP TO 25 **AIR LINES** INJECTORS) DELIVERS ACCURATE, RELIABLE LUBRICATION FOR PRODUCES GREATER OUTPUT PER STROKE THAN **EVERY LUBE POINT COMPETITIVE MODELS** HIGHER LUBE OUTPUT AND FASTER LUBRICATION NO PRESSURE SWITCH NEEDED - VENT VALVE CYCLE RATE **AUTOMATICALLY AND EFFICIENTLY RELIEVES PRESSURE** ON EVERY RETURN STROKE **DURABLE SHATTER PROOF RESERVOIR**

SIMPLIFIED INSTALLATION USING EXISTING MOUNTING HOLES

INDEX

DESCRIPTION	PAGE
LMAG PUMP, NO RESERVOIR	3
LMAG GREASE PUMP	4
LMAG OIL PUMP	5
INSTALLATION	6
TECHNICAL DATA	7
DIMENSIONS	8
ASSEMBLY	9

READY FOR IMMEDIATE SHIPMENT

MADE IN



BULLETIN: LSM038 LAST REVISED: 10/16/2019

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

FLUIDS / TECHNICAL DATA

- OIL AND 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

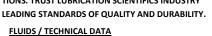


LMAG-001 BARE PUMP, NO RESERVOIR

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

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



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
- INJECTION MOLDING
- MANUFACTURING
- THERMOFORMING



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-001-060
LMAG PUMP WITH 12PT OIL RESERVOIR	LMAG-001-120
LMAG PUMP WITH 20PT OIL RESERVOIR	LMAG-001-200
LMAG PUMP WITH 6PT OIL RESERVOIR W/ LOW LEVEL	LMAG-001-06OLL
LMAG PUMP WITH 12PT OIL RESERVOIR W/ LOW LEVEL	LMAG-001-120LL
LMAG PUMP WITH 20PT OIL RESERVOIR W/ LOW LEVEL	LMAG-001-200LL

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
- 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 INSTALLATION INSTRUCTIONS

AIR/FLUID LINES

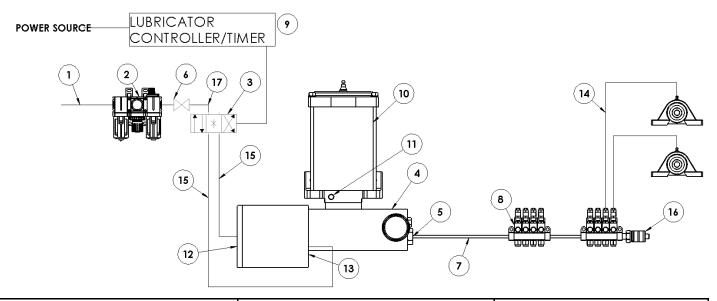
- 1. INSTALL THE AIRLINE ACCESSORIES IN ORDER AS SHOWN ON LMAG-TYP-INSTALL.
- 2. AN AIR BLEED VALVE (6) IS USEFUL TO BLEED TRAPPED AIR BETWEEN PUMP AND AIR INLET.
- 3. AN AIR LINE FILTER IS CRITICAL AND NECESSARY TO REMOVE DAMAGING CONTAMINATION AND MOISTURE FROM COMPRESSED AIR.
- 4. REGULATOR IS NECESSARY 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.
- SLOWLY FILL RESERVOIR ALLOWING THE FOLLOWER PLATE TO LIFE ABOVE THE RESERVOIR VENT HOLE EXPELLING ENTRAPPED 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	

BULLETIN: LSM038 LAST REVISED: 10/16/2019 6

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

LUBRICANT OUTPUT AND PRESSURE

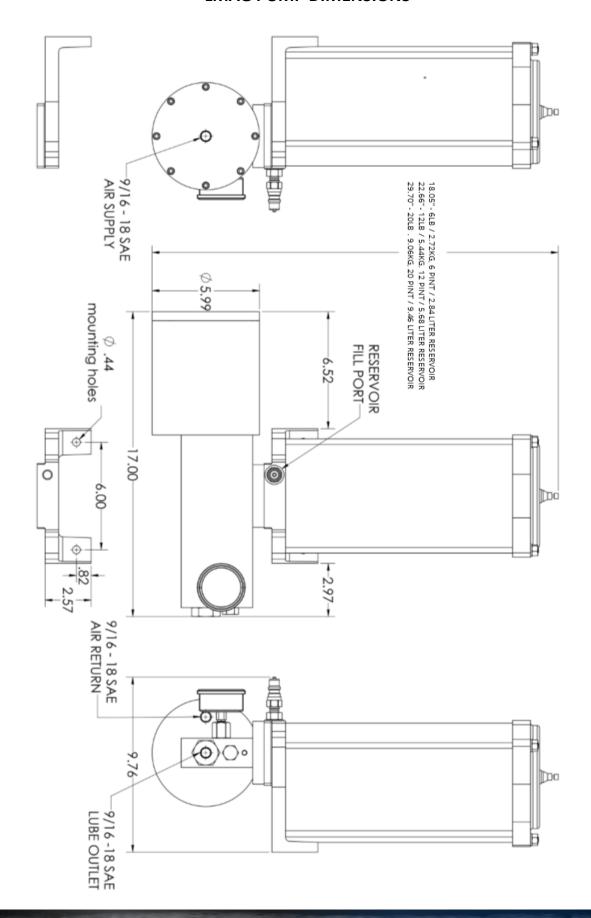
1	2	3	4		5		6	
INJECTOR TYPE	MAX	MAX PUMP	MINIMUM	PRESSURE	MAXIMUM	PRESSURE	RECOMMENDED	PRESSURE
	INJECTOR OUTPUT CU. IN.	LUBRICANT OUTPUT/ STROKE CU. IN.	50	PSI	140	PSI	80-100	PSI
			OUTPUT PSI	REQUIRED AIR PSI	OUTPUT PSI	REQUIRED AIR PSI	OUTPUT PSI	REQUIRED AIR PSI
LSL-1	0.080	2.5	1850	74	3500	140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

BULLETIN: LSM038 LAST REVISED: 10/16/2019 7

LMAG PUMP DIMENSIONS



8

LMAG ASSEMBLY INSTRUCTIONS

겂 12 # 9/16-18 X 1/4 NPSF ADAPTER 5/16" 316 SS BALL **VENT PISTON SPRING VENT SLEEVE RETAINER** -122 VITON O-RING **OUTLET ADAPTER VENT SLEEVE** -012 90 DURO VITON O-RING **VENT PISTON** -906 VITON ORING -020 VITON O-RING KOENIG DESCRIPTION ω ω 22 21 27 26 25 23 22 19 8 5 6 # 1/4 - 20 X 1/2 SOCKET HEAD CAP SCREW END CAP BACK UP RING -024 VITON O-RING 3/8 - 16 X 5/8 SOCKET HEAD CAP SCREW 1/4-28 X 5/8 SOCKET HEAD CAP SCREW DESCRIPTION PNEUMATIC PISTON **QUAD RING** ADAPTER PLATE -248 VITON O-RING -425 VITON O-RING **LUBE PISTON** CYLINDER (III) QTY ∞ ∞ 2

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

LJP SINGLE—LUBRICATION PUMP







BENEFITS & ADVANTAGES

- THREE PISTON SIZES AVAILABLE, EITHER FIXED OR ADJUSTABLE OUTPUTS, FOR LARGE OUTPUT RANGES.
- PUMP WITH 3/16" DIAMETER PISTON CAN OPERATE UP TO 10,000 PSI
- SIMPLIFIED, PATENT PENDING, DESIGN WITH LESS THAN HALF THE INTERNAL COMPONENTS OF COMPETITIVE PUMPS.
- DISCHARGE PISTON AND LOWER PLUNGER ARE LOCKED TOGETHER, BUT ARE FREE TO ROTATE 360° ELIMINATING NEED FOR KEY OR PIN.
- AIR BLEED PLUG AT TOP OF CYLINDER ASSEMBLY.
- EXTERNAL PUMP OUTPUT ADJUSTMENT ON ADJUSTABLE OUTPUT TYPES.
- ADAPTERS AVAILABLE FOR MOUNTING TO VARIOUS SIZE FOOTED "C" FACE MOTORS

READY FOR IMMEDIATE SHIPMENT

MADE IN

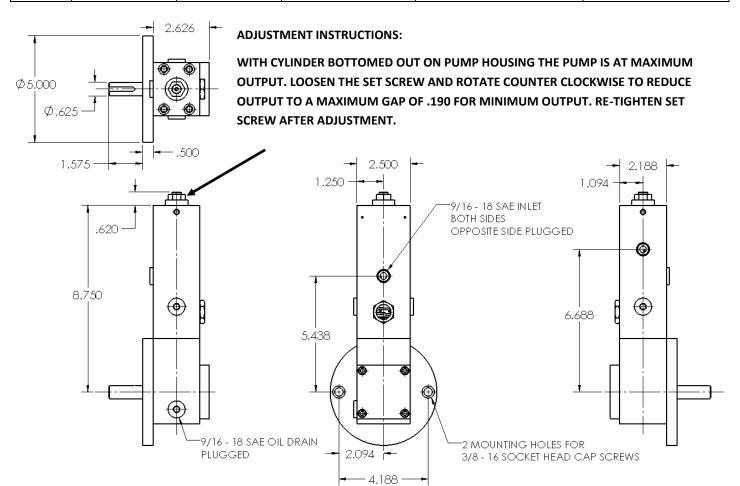


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LJP SINGLE ORDERING GUIDE/SPECIFICATIONS

	LJP-S-X-XX	LIP-S-X-XX		
ТҮРЕ	P/N	OUTPUT SIZE:	P/N	
FIXED OUTPUT:	F	3/16 DIA	19	
ADJUSTABLE OUTPUT	А	1/4 DIA	25	
		3/8 DIA	38	

	OUTPUT SPECIFICATIONS					
PLUNGER SIZE	MIN OUTPUT PER STROKE	MAX OUTPUT PER STROKE	OUTPUT CHANGE PER 1/4 ROTATION OF CYL.	MAXIMUM CONTINUOUS OPERATING PRESSURE	MAXIMUM INTERMITTENT PRESSURE	
19	.0015 CU IN	.006 CU IN	.0005 CU. IN.	10,000 PSI	12,000 PSI	
			.008 CC	690 BAR	827 BAR	
25	.0030 CU IN	.0125 CU IN	.0009 CU. IN.	6,000 PSI	8,000 PSI	
			.014 CC	414 BAR	552 BAR	
38	.0065 CU IN	.026 CU IN	.0019 CU. IN.	3,500 PSI	6,000 PSI	
			.031 CC		414 BAR	



LJP SINGLE PUMP REPAIR/REPLACEMENT PARTS

MASTER PUMP REPAIR KIT



PUMP REPAIR KIT



LOWER PLUNGER KIT



PART NUMBER	ASSEMBLY DESCRIPTION
LJP-MPE19	MASTER PUMP KIT, 3/16 PISTON ADJUSTABLE
LJP-MPE25	MASTER PUMP KIT, 1/4 PISTON ADJUSTABLE
LJP-MPE38	MASTER PUMP KIT, 3/8 PISTON ADJUSTABLE
LJP-RPE19	PUMP REPAIR KIT, 3/16 PISTON ADJUSTABLE
LJP-RPE25	PUMP REPAIR KIT, 1/4 PISTON ADJUSTABLE
LJP-RPE35	PUMP REPAIR KIT, 3/8 PISTON ADJUSTABLE
LJP-RPKU	LOWER PLUNGER REPAIR KIT, ALL
LJP-MPE19-F	MASTER PUMP KIT, 3/16 PISTON FIXED
LJP-MPE25-F	MASTER PUMP KIT, 1/4 PISTON FIXED
LJP-MPE38-F	MASTER PUMP KIT, 3/8 PISTON FIXED
LJP-RPE19-F	PUMP REPAIR KIT, 3/16" FIXED
LJP-RPE25-F	PUMP REPAIR KIT, 1/4" FIXED
LJP-RPE38-F	PUMP REPAIR KIT, 3/8" FIXED

LJP SINGLE — PROCEDURE TO REPLACE LJP PUMP CYLINDER ASSEMBLY

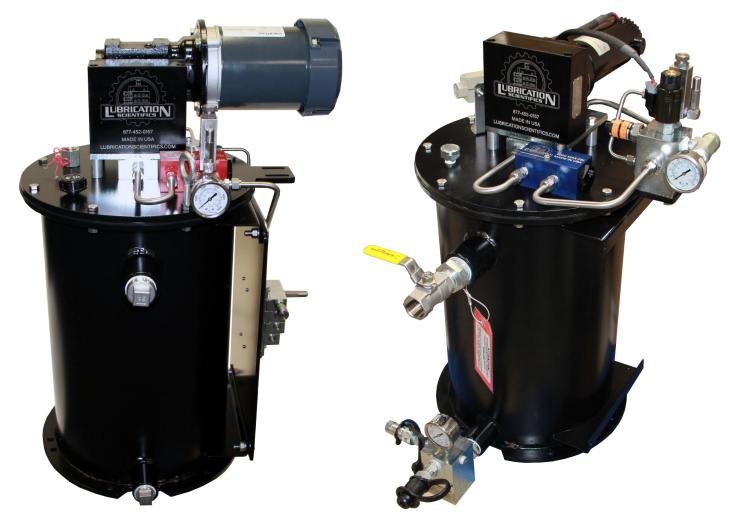
- SHUT OFF THE OIL SUPPLY TO THE PUMP.
- REMOVE THE DRAIN PLUG AND DRAIN THE OIL FROM THE LOWER PUMP HOUSING
- MEASURE AND RECORD THE SPACE BETWEEN THE TOP OF THE PUMP HOUSING AND THE BOTTOM OF THE CYLINDER HEAD FOR ADJUSTABLE OUTPUT PUMP.
- LOOSEN THE SETSCREW LOCKING THE CYLINDER IN PLACE.
- REMOVE THE SCREWS HOLDING THE UPPER AND LOWER PUMP HOUSING TOGETHER.
- LIFT THE UPPER HOUSING AND DISCONNECT PISTON FROM LOWER PLUNGER.
- FOR ADJUSTABLE OUTPUT PUMP ROTATE THE CYLINDER COUNTER CLOCKWISE TO REMOVE.
- FOR FIXED OUTPUT PUMP PUSH THE CYLINDER OUT FROM THE BOTTOM END.
- INSTALL NEW CYLINDER ASSEMBLY IN TO THE UPPER HOUSING AND TIGHTEN SETSCREW. FOR ADJUSTABLE OUTPUT TYPE SET THE HEIGHT TO THE PREVIOUSLY MEASURED SPACE.
- SLIDE PISTON INTO LOWER PLUNGER AND REATTACH THE UPPER HOUSING TO THE LOWER HOUSING.
- FILL LOWER HOUSING WITH OIL TO CENTER OF SITE GAGE.
- TURN ON OIL SUPPLY AND BLEED PUMP OF AIR.

LJP SINGLE PUMP TROUBLE SHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
NO OUTPUT	AIR IN PUMP OIL SUPPLY EMPTY	 REMOVE AIR BLEED PLUG UNTIL AIR FREE OIL IS COMING OUT FILL RESERVOIR AND BLEED AIR TO PUMP INLET
WILL NOT BUILD PRESSURE	AIR IN PUMP CONTAMINATION	BLEED AIR PER ABOVE REMOVE AIR BLEED PLUG AND LOOSEN CHECK VALVE RETAINER APPROXIMATE-LY FIVE TURNS AND LET PUMP RUN FOR A FEW STROKES. IF THIS DOES NOT WORK THE CYLINDER ASSEMBLY MAY NEED TO BE REPLACED.
LOW PUMP OUTPUT	 AIR IN PUMP CONTAMINATION HIGH OIL VISCOSITY 	 BLEED PER ABOVE REMOVE PER ABOVE. VERIFY OIL SUPPLY AT PUMP INLET. IF NOT ADEQUATE THE OIL SUPPLY MAY NEED TO BE PRESSURIZED



LCPR ELECTRIC AND PNEUMATIC PUMP PACKAGES



READY FOR IMMEDIATE SHIPMENT

MADE IN



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LCPR PUMP PACKAGES

24 VOLT DC PUMP PACKAGE DESCRIPTION	44 POUND / 20 KG RESERVOIR	60 POUND / 28 KG RESERVOIR	90 POUND / 40 KG RESERVOIR
LCPR - 24 VDC SMALL SYSTEM PACKAGE OUTPUT 5.5 CU IN/MIN INCLUDES: BARE 24VDC PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E24DC-LO	LCPR-60-E24DC-LO	LCPR-90-E24DC-LO
LCPR - 24 VDC LARGE SYSTEM PACKAGE OUTPUT 11.0 CU IN/MIN INCLUDES: BARE 24VDC PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E24DC	LCPR-60-E24DC	LCPR-90-E24DC
115 VOLT AC PUMP PACKAGE DESCRIPTION	44 POUND / 20 KG RESERVOIR	60 POUND / 28 KG RESERVOIR	90 POUND / 40 KG RESERVOIR
LCPR - 115 VAC, 1PH STANDARD DUTY PACKAGE OUTPUT 11.0 CU IN/MIN INCLUDES: BARE 110 VAC PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E110AC	LCPR-60-E110AC	LCPR-90-E110AC
115-230 VAC 1PH PUMP PACKAGE DESCRIPTION	44 POUND / 20 KG RESERVOIR	60 POUND / 28 KG RESERVOIR	90 POUND / 40 KG RESERVOIR
LCPR - 115-230 VAC, 1PH HEAVY DUTY PACKAGE OUTPUT 11.0 CU IN/MIN INCLUDES: BARE 115-230 VAC PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E230AC	LCPR-60-E230AC	LCPR-90-E230AC
LCPR - 115-230 VAC, 1PH HEAVY DUTY PACKAGE EXPLOSION PROOF MOTOR OUTPUT 11.0 CU IN/MIN INCLUDES: BARE 115-230 VAC PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E230AC-XP	LCPR-60-E230AC-XP	LCPR-90-E230AC-XP
LCPR - 115-230 VAC, 1PH HEAVY DUTY PACKAGE HIGH OUTPUT 16.5 CU IN/MIN INCLUDES: BARE 115-230 VAC PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E230AC-HO	LCPR-60-E230AC-HO	LCPR-90-E230AC-HO
LCPR - 115-230 VAC, 1PH HEAVY DUTY PACKAGE EXPLOSION PROOF MOTOR HIGH OUTPUT 16.5 CU IN/MIN INCLUDES: BARE 115-230 VAC PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E230AC-XP-HO	LCPR-60-E230AC-XP-HO	LCPR-90-E230AC-XP-HO

LCPR PUMP PACKAGES (CONTINUED)

208-460 VOLT AC 3PH PUMP PACKAGE DESCRIPTION	44 POUND / 20 KG RESERVOIR	60 POUND / 28 KG RESERVOIR	90 POUND / 40 KG RESERVOIR
LCPR - 208-460 VAC, 3PH HEAVY DUTY PACKAGE OUTPUT 11.0 CU IN/MIN INCLUDES: BARE 208-460 VAC 3PH PUMP, FOLLOWER, PRV, FILTER FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E460AC	LCPR-60-E460AC	LCPR-90-E460AC
LCPR - 208-460 VAC, 3PH HEAVY DUTY PACKAGE EXPLOSION PROOF MOTOR OUTPUT 11.0 CU IN/MIN INCLUDES: BARE 208-460 VAC 3PH PUMP, FOLLOWER, PRV, FILTER,	LCPR-44-E460AC-XP	LCPR-60-E460AC-XP	LCPR-90-E460AC-XP
LCPR - 208-460 VAC, 3PH HEAVY DUTY PACKAGE HIGH OUTPUT 16.5 CU IN/MIN INCLUDES: BARE 208-460 VAC 3PH PUMP, FOLLOWER, PRV, FILTER FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E460AC-HO	LCPR-60-E460AC-HO	LCPR-90-E460AC-HO
LCPR - 208-460 VAC, 3PH HEAVY DUTY PACKAGE EXPLOSION PROOF MOTOR HIGH OUTPUT 16.5 CU IN/MIN INCLUDES: BARE 208-460 VAC 3PH PUMP, FOLLOWER, PRV, FILTER, FULLY ASSEMBLED & INSTALLATION READY	LCPR-44-E460AC-XP-HO	LCPR-60-E460AC-XP-HO	LCPR-90-E460AC-XP-HO

SYSTEM SPECIFIC RESERVOIR OPTIONS

ALL LCPR PAUMP PACKAGES ARE READY FOR INSTALLATION IN SERIES PROGRESSIVE (DIVIDER VALVE) APPLICATIONS.
FACTORY BUILT PUMP PACKAGES ARE AVAILABLE FOR INJECTOR AND DUAL LINE SYSTEMS.
CHOOSE THE SYSTEM YOU NEED BY ADDING THE FOLLOWING SUFFIX TO THE BASIC PART NUMBER.



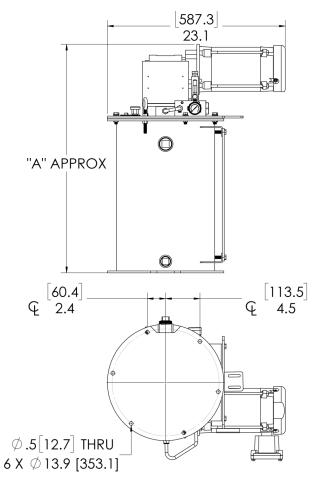


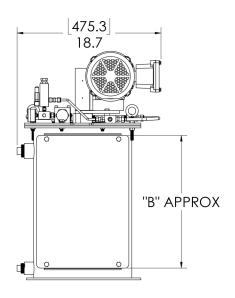
FOR INJECTOR PACKAGES ADD ICS SUFFIX TO ALL PART NUMBERS FOR DUAL LINE PACKAGES ADD DLP SUFFIX TO ALL PART NUMBERS

LCPR PUMP PACKAGE OPTIONS

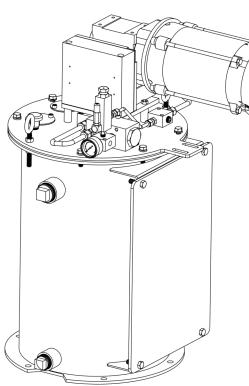
LOW LEVEL/HIGH LEVEL OPTIONS	PART NUMBER
LOW LEVEL SWITCH ASSEMBLY, ALL 44LB RESERVOIRS	LCPR-LLA-44
LOW LEVEL SWITCH ASSEMBLY, ALL 60LB RESERVOIRS	LCPR-LLA-60
LOW LEVEL SWITCH ASSEMBLY, ALL 90LB RESERVOIRS	LCPR-LLA-90
HIGH LEVEL ASSEMBLY, 24VDC OR 115VAC	LCPR-HLA
MOUNTING PLATE OPTIONS	PART NUMBER
MOUNTING PLATE, ALL 44LB	LCPR-AMP44
MOUNTING PLATE, ALL 60LB	LCPR-AMP44
MOUNTING PLATE, ALL 90LB	LCPR-AMP44
ACCESSORIES	PART NUMBER
AUX CONTROLLER MOUNTING PLATE, ALL	LCPR-CMP
IMMERSION HEATER	LCPR-SUBHTR
DIPTICK 3/8" NPT, 40 MIC, 1.6 CAP DIAMETER	LCPR-DIP-60
RESERVOIR VENT	LCPR-VENT
ICS, CONTAMINATION PREV PUMP RES SYS, 60LB, 24 VDC	LCPR-60-E24DC-ICS
REMOTE FILL DIRT TRAP OPTIONS	PART NUMBER
REMOTE FILL DIRT TRAP BODY	RFDT-0001
REMOTE FILL DIRT TRAP ASSEMBLY, 3 MICRON OIL	RFDT-003-O
REMOTE FILL DIRT TRAP ASSEMBLY, 5 MICRON OIL	RFDT-005-O
REMOTE FILL DIRT TRAP ASSEMBLY, 10 MICRON OIL	RFDT-010-O
REMOTE FILL DIRT TRAP ASSEMBLY, 25 MICRON OIL	RFDT-025-O
REMOTE FILL DIRT TRAP ASSEMBLY, 40 MESH, GREASE	RFTDA-040-G
REMOTE FILL DIRT TRAP ASSEMBLY, 100 MESH, GREASE	RFTDA-100-G
REMOTE FILL SUPPLY RETURN MANIFOLD, CRS	RFDT-SRM-000
REMOTE FILL HOSE END COUPLER	RFDT-H4F4-C
REMOTE FILL FITTING W/ PROTECTIVE CAP	RFDT-H4F4-F
RESEVOIR MOUNT REMOTE FILL DIRT TRAP OPTIONS	PART NUMBER
REMOTE FILL DIRT TRAP BODY, RESERVOIR MOUNT	RFDT-0001R
REMOTE FILL DIRT TRAP ASSEMBLY, RESERVOIR MOUNT, 3 MICRON, OIL	RFDTRA-003-O
REMOTE FILL DIRT TRAP ASSEMBLY, RESERVOIR MOUNT, 5 MICRON, OIL	RFDTRA-005-O
REMOTE FILL DIRT TRAP ASSEMBLY, RESERVOIR MOUNT, 10 MICRON, OIL	RFDTRA-010-O
REMOTE FILL DIRT TRAP ASSEMBLY, RESERVOIR MOUNT, 25 MICRON, OIL	RFDTRA-025-O
REMOTE FILL DIRT TRAP ASSEMBLY, RESERVOIR MOUNT, 40 MESH, GREASE	RFDTRA-040-O
REMOTE FILL DIRT TRAP ASSEMBLY, RESERVOIR MOUNT, 100 MESH, GREASE	RFDTRA-100-O

DIMENSIONS AND SPECIFICATIONS (ALL AC)



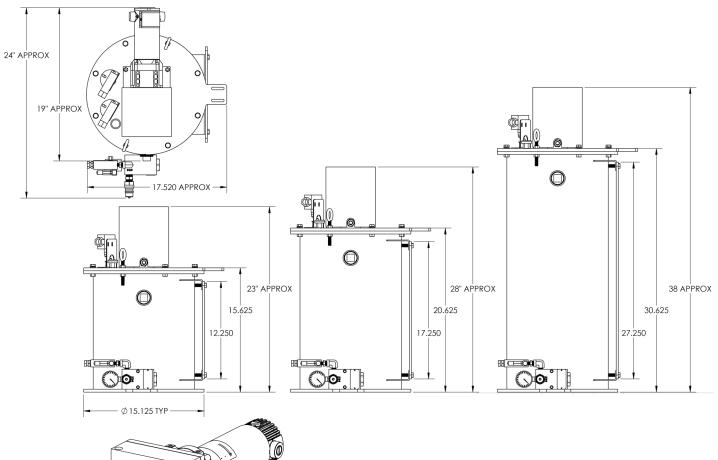


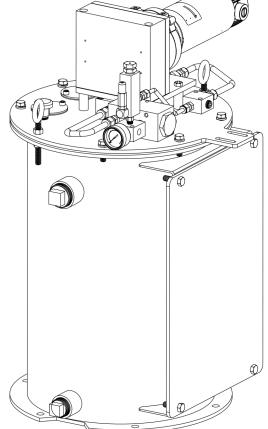
RESERVOIR SIZE	DIM "A" in (mm)	DIM "B" in (mm)
44LB	24.7" (627.4)	12.25" (311.15)
60LB	29.7" (754.6)	17.25" (438.15)
90LB	39.7" (1008.4)	27.25 (692.15)



PUMP PERFORMANCE AND SPECIFICATIONS		
OPERATING VOLTAGE, VAC	ALL AC	
MOTOR, HP	1/2 hp	
FULL LOAD AMPS	7.7/3.9-3.9	
RPM RANGE	1701-1800	
GEAR REDUCER RATIO	10:01	
OUTPUT/PUMP CYCLE, in ³	0.066in³	
OUTPUT/ PUMP CYLCE, MINUTE	11.3-11.9in³/min	
PUMP OUTLET	1/4-18 NPSF	

DIMENSIONS AND SPECIFICATIONS (24VDC)





PUMP PERFORMANCE AND SPECIFICATIONS		
OPERATING VOLTAGE, VDC	24	
MOTOR, HP	1/4 hp	
AMPS	9.77	
RPM	170	
RATIO	10.6:1	
OUTPUT/PUMP CYCLE, in ³	0.066in³	
OUTPUT/ PUMP CYLCE, MINUTE	11.3in³/min	
PUMP OUTLET	1/4-18 NPSF	

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

PARTS LIST (24VDC)

PARIS LIST (24VDC)					
ITEM NO.	DESCRIPTION	QUANTITY	ITEM NO.	DESCRIPTION	QUANTITY
1	24VDC MOTOR	1	37	PRESSURE GAUGE	1
2	1/4 - 20 X 1/2 SOCKET HEAD CAP SCREW	8	38	1/4" NPT PIPE NIPPLE	1
3	-127 VITON ORING	1	39	1/8" NPT PIPE NIPPLE	1
4	ECCENTRIC HOUSING BACK PLAT	1	40	MINI DIRT TRAP FILTER	1
5	ECCENTRIC HOUSING BACK PLATE GASKET	1	41	1/4 - 28 X 2 - 1/4 SOCKET HEAD CAP SCREW	2
6	ECCENTRIC	1	42	BREATHER	1
7	5/16 - 18 X 6 - 1/2" SOCKET HEAD CAP SCREW	2	43 44	LOW/HIGH LEVEL COVER LOW/HIGH LEVEL COVER	2 2
8	ECCENTRIC FRONT COVER	1	1	GASKET	_
9	DRIVE PISTON	1	45	3/8-16 X 1 - 1/4 HEX CAP	6
10	DRIVE PISTON SLEEVE	1		SCREW	
11	3/8 - 24 HEXT NUT	1	46	3/8 SPLIT LOCK WASHER	6
12	3/8 - 24 X 1" HEX HEAD SCREW	1	47	3/8 - 16 EYE BOLT	2
13	5/16-18 X 2 - 1/2" HEX HEAD SCREW	2	48	RESERVOIR LID	1
14	ECCENTRIC HOUSING LOWER GASKET	21	49	PICK UP TUBE	1
15	MOTOR MOUNTING PLATE	11	50	RETURN SPRING	1
16	SPACER	14	51	PLUNGER PISTON ASSEMBLY	1
17	5/16-18 LOCK NUT	44	52	PRESSURE PISTON	1
18	1/4-28 X 1 SOCKET HEAD CAP SCREWS	44	53	-018 VITON ORING	2
19	1/4-28 X 1-1/2 SOCKET HEAD CAP SCREW	42	54	PICK UP TUBE ADAPTER BLOCK/SPACER	1
20	1/4-28 X 1-3/4 SOCKET HEAD CAP SCREW	24	55	1/4 - 28 X 2" SOCKET HEAD CAP SCREW	2
21	-910 VITON ORING	41	56	PUMPING ELEMENT BODY	1
22	PUMP OUTLET/RETURN MANIFOLD	11	57	ENCLOSURE PLUG	2
23	-034 VITON ORING	11	58	-010 VITON ORING	2
24	-011 VITON ORING	16	59	5/8" CHECK BALL	1
25	1/4-28 LOCK NUT	64	60	1/4 - 28 X 3 - 1/2 SOCKET HEAD	2
26	TUBE FITTING 1/4" TUBE X 1/8" NPT	1		CAP SCREW	
27	TUBE FITTING 1/4" TUBE X 1/4" NPT	1	- 61	CHECK SPRING	1
28	1/4" NPSF 4 WAY ANCHOR BLOCK	2	62	-908 VITON ORING	1
29	1/4" NPT PIPE PLUG	5	- 63	CHECK RETAINER	1
30	TUBE FITTING 3/8" TUBE X 1/4" NPT	2	1		
31	TUBE FITTING 3/8" TUBE X 3/8" NPT	2	1		
32	PIPE FITTING 3/8" X 3/8" NPTF FEMALE	1	1		
33	STEEL PIPE 3/8" NPT X 4 - 1/2" LONG	1	1		
34	1/4 TUBE	N/A	1		
	-		4		

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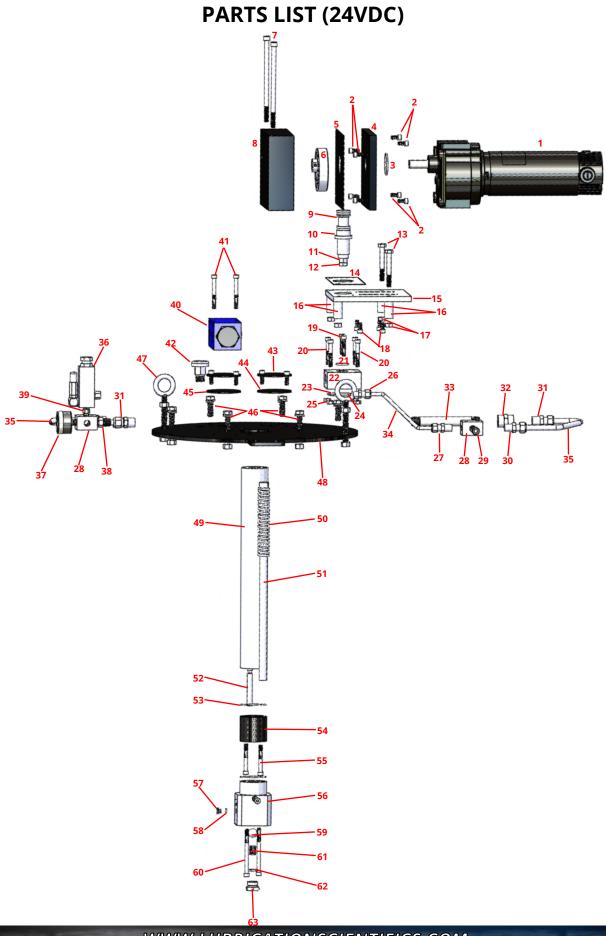
N/A

35

36

3/8 TUBE

PRESSURE RELIEF (LPRVM W/MEMORY)





FILTER PRIMER—AIR TRAP



PRODUCT DESCRIPTION

CONSTRUCTED WITH ANODIZED ALUMINUM & POLY

CARBONATE TUBING

STAINLESS STEEL HARDWARE FOR ZERO RUST

CONTAMINATION

REMOVES AIR BUBBLES TRAPPED IN LUBE LINE BEFORE ENTERING THE PUMP

PREVENTS AIR-LOCK IN THE SYSTEM

MANUAL AIR VENTING

AIR MOVES INTO THE AIR TRAP CHAMBER AND RISES TO THE SURFACE, NEVER GETTING BACK INTO THE LUBE LINE

MESH SIZES AVAILABLE IN 100 MESH, 40 MESH, 25 MICRON, 10 MICRON, & 5 MICRON

REBUILD KITS AVAILABLE

MAX PRESSURE 150 PSI

FOR USE WITH OIL APPLICATIONS ONLY

BENEFITS & FEATURES

REMOVES AIR IN THE LUBRICATION LINE

ANODIZED ALUMINUM, NON STEEL COMPONENTS FOR RUST FREE AIR FILTRATION

SLEEK, SCRATCH RESISTANT DESIGN

STAINLESS STEEL BRACKETS, STRAINERS, & TIE RODS

MULTIPLE STRAINER MESH SIZES AVAILABLE

READY FOR IMMEDIATE SHIPMENT

MADE IN



ORDERING INFORMATION & PART NUMBERS

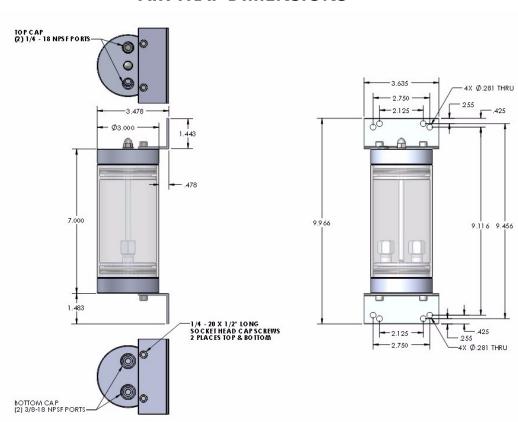
FILTER PRIMER ASSEMBLY

STANDARD PACK: 1		
PRODUCT DESCRIPTION	PART NUMBER	
FILTER PRIMER—AIR TRAP	PPA-1500	
FILTER PRIMER—AIR TRAP REBUILD KIT	PPA-1500-TRK	

STANDARD PACK: 2 EACH		
STRAINER MESH ASSEMBLIES	PART NUMBER	
100 MESH	SF-250-100	
40 MESH	SF-250-040	
25 MICRON	SF-250-025	
10 MICRON	SF-250-010	
5 MICRON	SF-250-005	



AIR TRAP DIMENSIONS





PRODUCT DESCRIPTION

OIL FILTER CARTRIDGES DECONTAMINATE LUBRICANT AT 10, 20, AND 50 MICRONS

LIGHTWEIGHT 2024 AIRCRAFT ALUMINUM
CONSTRUCTION

EASY MAINTENANCE AND CARTRIDGE REPLACEMENT

CAN ACCOMMODATE PRESSURES UP TO 3000 PSI

EASY TO DETERMINE WHEN CARTRIDGES ARE FULL USING PRESSURE GAUGES

STANDARD AND LONG CARTRIDGES AVAILABLE

HIGH PRESSURE AND LOW PRESSURE CARTRIDGES

AVAILABLE

BENEFITS & FEATURES

1 PIECE MACHINED CANISTER—NO TIE RODS

ZERO LEAK, HIGH PRESSURE CARTRIDGE FILTER

LIGHTWEIGHT ANODIZED ALUMINUM CONSTRUCTION

10, 20, & 50 MICRON FILTER CARTRIDGES

AVAILABLE

FILTER ELEMENT SELF-CENTERS IN CANISTER

OPTIONAL LONG FILTER OPTION FOR LONGER
FILTER LIFE AND LARGER CAPACITY

FOR OIL APPLICATIONS

EASY TO REPLACE CARTRIDGES

EASY TO INSTALL INLINE

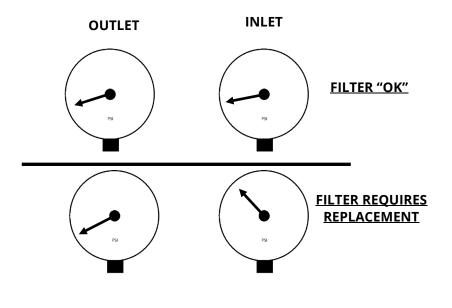
READY FOR IMMEDIATE SHIPMENT

MADE IN



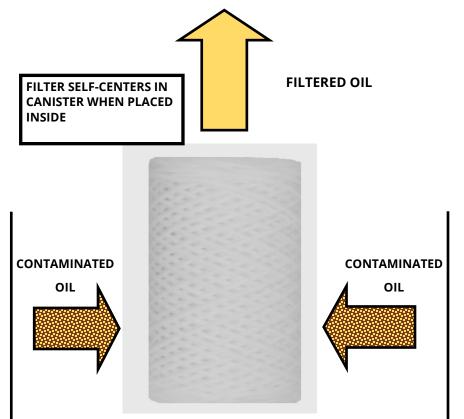
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FUNCTION ILLUSTRATION & SPECIFICATIONS



Oil is decontaminated by passing lubricant through the filter element as shown below. Installation of pressure gauges make indication of element replacement easy. The filter is functioning properly when both gauges are at approximately the same psi level.

During filtration, particles are left behind in the filter element. Over time, the contaminated build up against the filter wall creates flow resistance. As the resistance increases, the outlet pressure will rise as it tries to push the lubricant through the clogged filter. When the outlet pressure is noticeably higher (~40 psi) than the inlet pressure, it is time to replace the filter.



SPECIFICATIONS

2024 AIRCRAFT GRADE ALUMINUM
FILTER RATING: OIL @ 10,20,50 MICRONS
PRESSURE RATING: 3500/5000 PSI

WEIGHT: 2 LBS

BULLETIN: LSM007 LAST REVISED: 01/24/2019

ORDERING INFORMATION & PART NUMBERS

COMPLETE FILTER ASSEMBLY (NO GAUGE)

STANDARD PACK: 1 EACH	
PRODUCT DESCRIPTION	PART NUMBER
FILTER ASSEMBLY, 3 MICRONS (SHORT)	CFIL-03-US
FILTER ASSEMBLY, 5 MICRONS(SHORT)	CFIL-05-US
FILTER ASSEMBLY, 10 MICRONS (SHORT)	CFIL-10-US
FILTER ASSEMBLY, 20 MICRONS(SHORT)	CFIL-20-US
FILTER ASSEMBLY, 50 MICRONS (SHORT)	CFIL-50-US

NOTE: PRESSURE GAUGES SOLD SEPARATELY

STANDARD PACK: 1 EACH	
PRODUCT DESCRIPTION	PART NUMBER
FILTER ASSEMBLY, 3 MICRONS (LONG)	CFIL-03-UL
FILTER ASSEMBLY, 5 MICRONS (LONG)	CFIL-05-UL
FILTER ASSEMBLY, 10 MICRONS (LONG)	CFIL-10-UL
FILTER ASSEMBLY, 20 MICRONS (LONG)	CFIL-20-UL
FILTER ASSEMBLY, 50 MICRONS (LONG)	CFIL-50-UL

NOTE: PRESSURE GAUGES SOLD SEPARATELY



REPLACEMENT FILTER ELEMENTS & GAUGE

STANDARD PACK: 1 EACH		
PRODUCT DESCRIPTION	PART NUMBER	
FILTER ELEMENT, 3 MICRONS (SHORT)	CFIL-03-ES	
FILTER ELEMENT, 5 MICRONS (SHORT)	CFIL-05-ES	
FILTER ELEMENT, 10 MICRONS (SHORT)	CFIL-10-ES	
FILTER ELEMENT, 20 MICRONS (SHORT)	CFIL-20-ES	
FILTER ELEMENT, 50 MICRONS (SHORT)	CFIL-50-ES	

STANDARD PACK: 1 EACH		
PRODUCT DESCRIPTION	PART NUMBER	
FILTER ELEMENT, 3 MICRONS (LONG)	CFIL-03-EL	
FILTER ELEMENT, 5 MICRONS (LONG)	CFIL-05-EL	
FILTER ELEMENT, 10 MICRONS (LONG)	CFIL-10-EL	
FILTER ELEMENT, 20 MICRONS (LONG)	CFIL-20-EL	
FILTER ELEMENT, 50 MICRONS (LONG)	CFIL-50-EL	

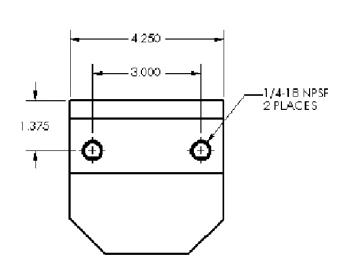
STANDARD PACK: 1 EACH		
GAUGE DESCRIPTION	PART NUMBER	
LOWER MOUNT, 1/4 NPTF, 5000 PSI	LM-25-5K-4	

STANDARD PACK: 1 EACH		
PRODUCT DESCRIPTION	PART NUMBER	
4.5" FILTER, WITHOUT ELEMENT	CFIL-U-US	
10.5 FILTER WITHOUT ELEMENT	CFIL-U-UL	

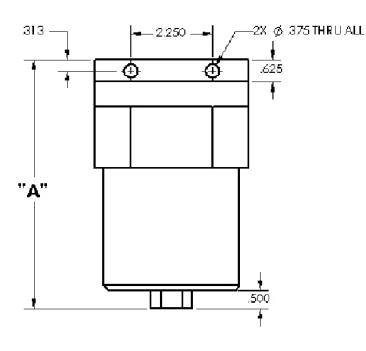
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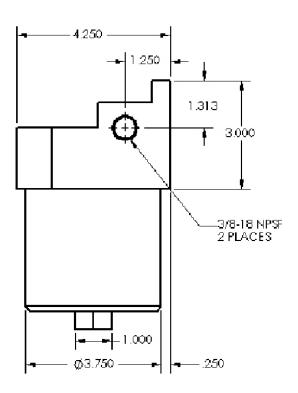
ORDERING INFORMATION

DIMENSIONS ARE IN INCHES



PART NUMBER	"A" DIM
CFIL-10-US	
CFIL-20-US	6.875" (SHORT)
CFIL-50-US	
CFIL-10-UL	
CFIL-20-UL	12.875 (LONG)
CFIL-50-UL	





BULLETIN: LSM007 LAST REVISED: 01/24/2019

LUBRICATION SCIENTIFICS, LLC

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



DIRT TRAP FILTRATION SOLUTIONS

HEAVY DUTY—RELIABILITY SOLUTION—DIRT TRAPPING TECHNOLOGY

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS



HIGH PRESSURE IN-LINE FILTER ASSEMBLIES WITH DIRT TRAP TECHNOLOGY

PRODUCT DESCRIPTION

DESIGNED FOR HIGH PRESSURE HYDRAULIC & LUBRICATION APPLICATIONS.

AVAILABLE IN STEEL AND 2024 ALUMINUM CONSTRUCTION.

STEEL BODIES HAVE BOTH 1/4 & 3/8 INLET AND OUTLET NPSF CONNECTIONS

ALUMINUM BODIES HAVE BOTH 1/4 INLET AND OUTLET

NPSF CONNECTIONS

STEEL CONSTRUCTION BODIES ARE DESIGNED FOR HIGH PRESSURE SURGE APPLICATIONS.

AIRCRAFT ALUMINUM BODIES HAVE TWO INLET AND TWO OUTLETS PORTS.

BOTH BODY DESIGNS USE STANDARD DIRT TRAP ELEMENTS, WHICH ARE AVAILABLE IN BOTH GREASE AND OIL FILTRATION RANGES.

FILTER ELEMENTS EASILY CHANGED WITHOUT REMOVING TUBING CONNECTIONS.

AVAILABLE FILTRATION RATINGS:

OIL

5 MICRON

10 MICRON

25 MICRON

GREASE

150 MICRON (100 MESH) 420 MICRON (40 MESH)

BENEFITS & FEATURES

AVAILABLE FOR OIL OR GREASE

FROM 5 TO 420 MICRON FILTRATION

ELEMENTS EASILY REPLACED

CONTAMINATION TRAPPED INSIDE THE THROW AWAY

ELEMENT

HIGH PRESSURE APPLICATIONS

STEEL BODY - 7,500 PSI

AL 2024 BODY - 6.000 PSI

MOUNTS IN ANY ORIENTATION

MULTIPLE INLETS AND OUTLETS

FOR MONITORING PRESSURE,

INSTALL GAUGE IN 1 INLET & 1 OUTLET

USE OPTIONAL OUTLET FOR AIR-BLEED PORT

READY FOR IMMEDIATE SHIPMENT

MADE IN



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DIRT TRAPS

BODIES ARE DESIGNED FOR HIGH PRESSURE
HYDRAULIC & LUBRICATION APPLICATIONS
AVAILABLE IN CRS, 316 STAINLESS STEEL & ALUMINUM

DIRT TRAP FILTER ASSEMBLY

STANDARD PACK: 1 EACH			
FILTER RATING	PLATED CARBON STEEL 7,500 PSI	AL2024 BLUE ANODIZED ALUMINUM 6,000 PSI	316 STAINLESS STEEL 7,500 PSI
5 MICRON	DTFA-005-O	MDFA-005-O	DTFA-005-O-316
10 MICRON	DTFA-010-O	MDFA-010-O	DTFA-010-O-316
25 MICRON	DTFA-025-O	MDFA-025-O	DTFA-025-O-316
150 MICRON 100 MESH	DTFA-100-G	MDFA-100-G	DTFA-100-G-316
420 MICRON 40 MESH	DTFA-040-G	MDFA-040-G	DTFA-040-G-316







READY FOR IMMEDIATE SHIPMENT

MADE IN



REMOTE FILL DIRT TRAP

BODIES ARE DESIGNED FOR HIGH PRESSURE
HYDRAULIC & LUBRICATION APPLICATIONS

AVAILABLE WITH PRESSURE RELIEF VALVE WITH MEMORY,

SAFETY RELIEF VALVE, FILL FITTING,

AND PRESSURE GAUGE



AVAILABLE OPTIONS

STANDARD PACK: 1 EACH		
FILTER RATING	PLATED CARBON STEEL 7,500 PSI	
BODY ONLY	RFDT-001	
ASSEMBLY W/ 5 MICRON FILTER	RFDTA-005-O	
ASSEMBLY W/ 10 MICRON FILTER	RFDTA-010-O	
ASSEMBLY W/ 25 MICRON FILTER	RFDTA-025-O	
ASSEMBLY W/ 150 MICRON FILTER	RFDTA-100-G	
ASSEMBLY W/ 100 MESH FILTER	N 217 100 d	
ASSEMBLY W/ 420 MICRON FILTER	RFDTA-040-G	
ASSEMBLY W/ 40 MESH FILTER	KFD1A-040-G	

*MUST	BUY	ELEMENT	WITH	BODY

DESCRIPTION	PART NUMBER
PRESSURE RELIEF VALVE W/ MEMORY, 1500 PSI	LPRVM-303-1500
PRESSURE RELIEF VALVE W/ MEMORY, 2000 PSI	LPRVM-303-2000
PRESSURE RELIEF VALVE W/ MEMORY, 2500 PSI	LPRVM-303-2500
PRESSURE RELIEF VALVE W/ MEMORY, 3000 PSI	LPRVM-303-3000
PRESSURE RELIEF VALVE W/ MEMORY, 3500 PSI	LPRVM-303-3500
PRESSURE RELIEF VALVE W/ MEMORY, 4000 PSI	LPRVM-303-4000
PRESSURE RELIEF VALVE W/ MEMORY, 5000 PSI	LPRVM-303-5000
SAFETY RELIEF VALVE	SRV-303-250-4000
FILL FITTING (INCLUDES PROTECTIVE CAP)	RFDT-H4F4
HOSE END COUPLER	RFDT-H4F4-C
PRESSURE GAUGE	LM-25-5K-4
SUPPLY (1/2 NPSF) RETURN (1/4 NPSF) MANIFOLD (CRS)	RFDT-SRM-000

READY FOR IMMEDIATE SHIPMENT



80% OF ALL PUMP FAILURES ARE DUE TO LUBRICANT CONTAMINATION

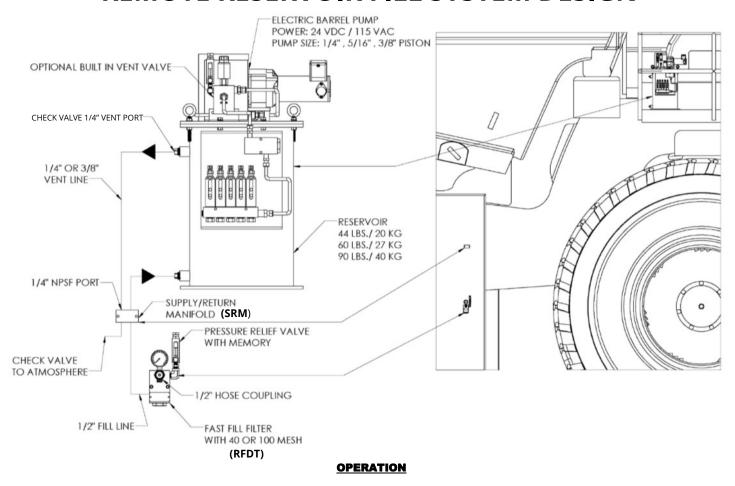
If the operation is under extreme demand and "Best Practices" are unable to be followed, the Remote Fill Filter will reduce the risk of contamination being introduced into your reservoir and destroying the pump.

A common misconception in maintenance and reliability is that new lubricant is clean and ready for immediate use.

Oil/Grease tote delivery systems may contain anywhere from 2 to 20 times the acceptable amount of particulate allowable for most lubrication pumps.



REMOTE RESERVOIR FILL SYSTEM DESIGN



- 1. Connect hose quick coupler to fill fitting on the front of the REMOTE FILL DIRT TRAP (RFDT).
- 2. Grease is pumped through the **RFDT** to the fill port on the reservoir.

If the reservoir location is remote from the RFDT, install the SUPPLY/RETURN

MANIFOLD (SRM) between the RFDT and the reservoir. If there is a considerable distance between the RFDT and the remote reservoir, add additional SRM units, as required.

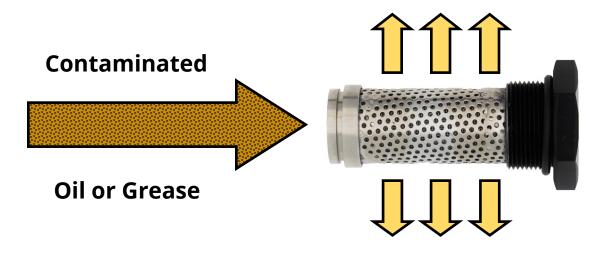
- 3. As grease is pumped into the reservoir, entrapped air above the follower is vented to atmosphere through a watertight breather, located on the top of the reservoir.
- 4. Once the grease reaches the **VENT PORT**, on the upper side of the reservoir, pressure will build until the **VENT PORT CHECK VALVE** opens (250 PSI), allowing grease to move down the vent line, opening the **end of vent line check valve** and providing visual indication that the reservoir is full.

Note A: In order to insure the vent line provides POSITIVE INDICATION that the reservoir is full, an end of line check valve must be installed at the end of the vent line. If using a SRM, install the end of line check valve into the bottom 1/4 port on the SRM.

Note B: If this installation includes SUPPLY/RETURN MANIFOLDS, tube from the reservoir VENT PORT to the first SRM and then to each subsequent SRM. Install the terminating check valve on the bottom 1/4 NPSF port of the last SRM. Install the last SRM close enough to the RFDT to insure a clear view of the end of vent line check valve.

FUNCTION ILLUSTRATION & SPECIFICATIONS

Filtered Lubricant



Filtered Lubricant

SPECIFICATIONS

MATERIAL: ZINC PLATED CARBON STEEL OR ANODIZED AL 2024 FILTER RATING: 5,10,25 MICRONS (OIL)/150, 420 MICRONS (GREASE) PRESSURE RATING: 7,500 PSI (STEEL)/6,000 PSI (AL)

WEIGHT: 6LBS (STEEL) / 2LBS (AL)

ORDERING INFORMATION & PART NUMBERS

DIRT TRAP REPLACEMENT ELEMENT

STANDARD PACK: 1 EACH			
FILTER RATING	PART NUMBER	PART NUMBER	
FILTER RATING	ALUMINUM CAP	303 SS CAP	
5 MICRON	DT-EL-002-005MIC	DT-EL-002-005MIC-SS	
10 MICRON	DT-EL-002-010MIC	DT-EL-002-010MIC-SS	
25 MICRON	DT-EL-002-025MIC	DT-EL-002-025MIC-SS	
150 MICRON	DT-EL-002-100M	DT-EL-002-100M-SS	
100 MESH	D1-EL-002-100IVI		
420 MICRON DT-EL-002-40M		DT-EL-002-40M-SS	
40 MESH	D1-EL-002-40W	D1-LL-002-40W-33	





NOTE: Replacement elements are compatible with both the carbon steel and 2024 Aluminum models.

DIRT TRAP MOUNTING BRACKET

STANDARD PACK: 1 EACH	
PART NUMBER	DESCRIPTION
LS-BRKT-KIT	316 S/S DIRT TRAP MOUNTING BRACKET



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REPLACEMENT MAGNETIC DIRT TRAP ELEMENT

SPECIFICALLY DESIGNED FOR LUBRICATION AND HYDRAULIC SYSTEMS WHERE THERE IS A REASONABLE PROBABILITY THAT THE HYDRAULIC OR LUBRICATING OIL WILL BE CONTAMINATED WITH METAL DEBRIS

CONSTRUCTED FROM:
304SS CORE
316SS FILTRATION SCREEN
303SS INLET & TIE ROD
2024 AL & 303SS NUT
VITON O RING AND INLET SEAL
NEODYMIUM IRON BORON
PERMANENT MAGNETS (6)



OUR NEODYMIUM IRON BORON PERMANENT
MAGNETS ARE MUCH STRONGER AND HAVE A MUCH HIGHER RESISTANCE TO
DEMAGNETIZATION THAN CERAMIC, ALNICO AND SM-CO MAGNETS.

ALL CONTAMINANTS ARE TRAPPED INSIDE THE
FILTER ELEMENT AND ARE COMPLETELY REMOVED FROM THE SYSTEM
WHENEVER THE FILTER ELEMENT IS REPLACED

OUR MAGNETIC DIRT TRAP PROVIDES ONE MORE DEFENSE IN THE BATTLE AGAINST CONTAMINATION, THE ENEMY OF HYDRAULIC OR LUBRICATION SYSTEM RELIABILITY

A CONTAMINATION FREE HYDRAULIC OR LUBRICATION SYSTEM IS A RELIABLE SYSTEM

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ORDERING INFORMATION & PART NUMBERS

MAGNETIC DIRT TRAP REPLACEMENT ELEMENT

STANDARD PACK: 1 EACH		
FILTER RATING	PART NUMBER	PART NUMBER
FILTER RATING	ALUMINUM CAP	316 SS CAP
3 MICRON	DT-EL-002-003MIC-MAG	DT-EL-002-003MIC-MAG-SS
5 MICRON	DT-EL-002-005MIC-MAG	DT-EL-002-005MIC-MAG-SS
10 MICRON	DT-EL-002-010MIC-MAG	DT-EL-002-010MIC-MAG-SS



POWERFUL ENOUGH TO CAPTURE THE SMALLEST METAL PARTICLES.



NOTE: REPLACEMENT ELEMENTS ARE COMPATIBLE WITH BOTH THE CARBON STEEL, STAINLESS STEEL, AND 2024 ALUMINUM MODELS.

FUNCTION ILLUSTRATION & SPECIFICATIONS

Filtered Lubricant





Oil or Grease







Filtered Lubricant

SPECIFICATIONS

MATERIAL: ZINC PLATED CARBON STEEL OR ANODIZED AL 2024 FILTER RATING: 3, 5,10 MICRONS (OIL)/150, 420 MICRONS (GREASE)

PRESSURE RATING: 7,500 PSI (STEEL)/6,000 PSI (AL)

WEIGHT: 6LBS (STEEL) / 2LBS (AL)

DIRT TRAP ELEMENT REPLACEMENT INSTRUCTIONS

Step 1: <u>Depressurize</u> any residual pressure from the system.

Step 2: Remove the old filter element from the filter body. Figure 1.1

Step 3: Remove the old Filter Element's Seal from the bottom of the Filter Body. Throw away. Visually inspect the inner body for any debris that may have fallen in during disassembly. Refer to Figure 1.2

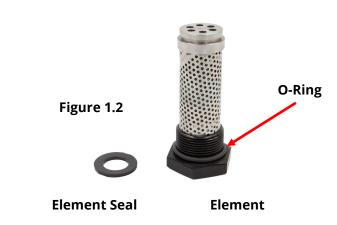
Step 4: <u>Lightly lubricate the new Dirt Trap</u>
<u>Element Seal & O-Ring</u> with oil or grease and drop the seal in the filter body making sure it rests flat on the body floor above the inlet cavity. Refer to Figure 1.2

Step 5: <u>Insert the new Dirt Trap Replacement Element</u> into the filter body. Tighten until the element assembly bottoms out onto the filter housing. Figure 1.3

Step 6: After installing any Dirt Trap filter in an existing or new lubrication system, <u>run the system and record the differential pressure</u> (difference between inlet pressure reading and <u>outlet pressure reading</u>). When this reading increases by **50 PSI**, replace the filter element

Tech Support: Can't figure it out? Give us a call toll free at: (877) 452-0157







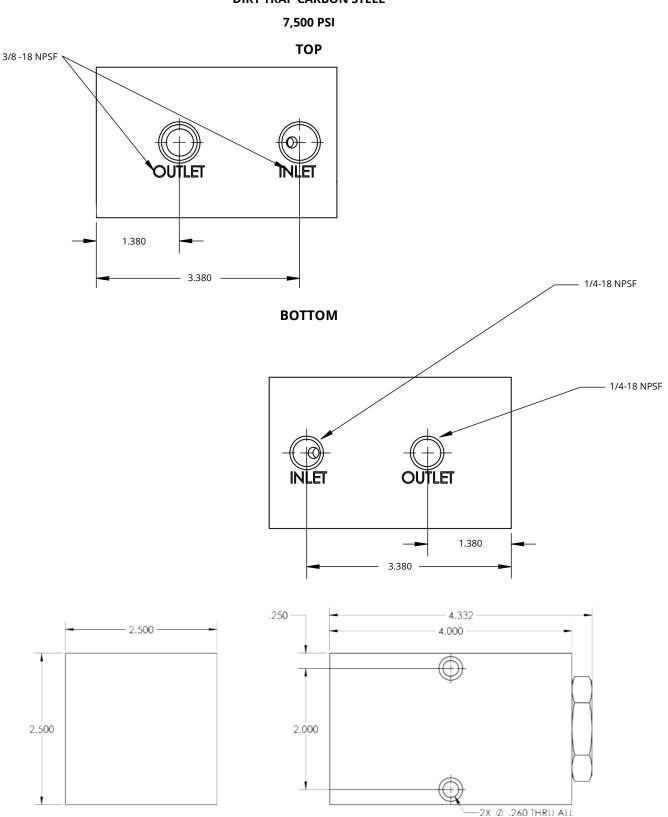


DIMENSIONS & MOUNTING INFORMATION

-- 1.380 -- 3.380

DIMENSIONS ARE IN INCHES

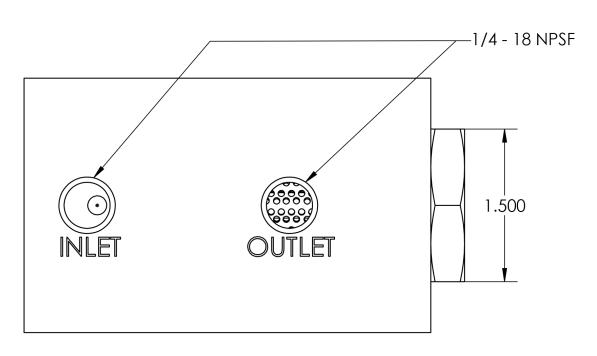
DIRT TRAP CARBON STEEL

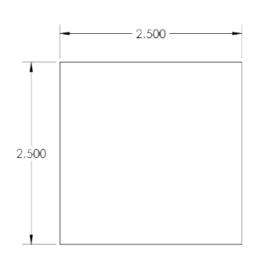


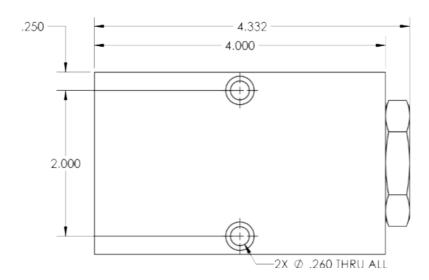
DIMENSIONS & MOUNTING INFORMATION

DIMENSIONS ARE IN INCHES

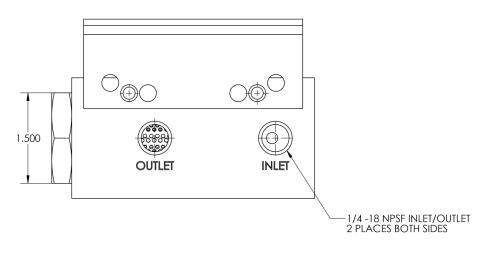
DIRT TRAP AL2025 & 316 STAINLESS

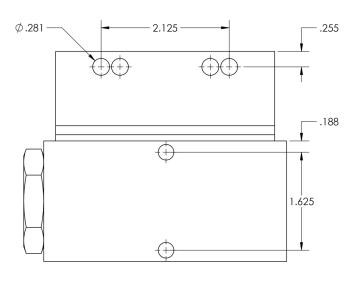


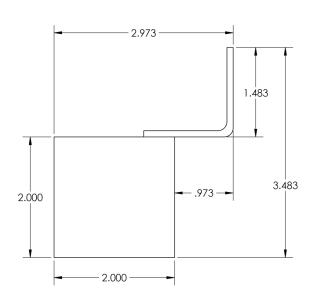




MOUNTING BRACKET DIMENSIONS













PRODUCT DESCRIPTION

LOW PRESSURE, HIGH FLOW, SPIN-ON FILTER
ELEMENT

3/4—16" NPT THREADED INTERFACE TO OIL FILTER

OIL ONLY APPLICATIONS AT 150 PSI MAX PRESSURE AT 250

DEGREES FAHRENHEIT

10, 25, AND 150 MICRONS AVAILABLE. ACCEPTS MOST
AUTOMOTIVE OIL FILTERS WITH A 3/4—16" NPT
CONNECTION

INLET/OUTLET PORTS ARE 3/8" NPSF CONNECTIONS,
MOUNTING HOLES ARE 1/4-20"

3/4" CLEARANCE NEEDED TO REMOVE AND INSTALL FILTER

BENEFITS & FEATURES

PROVIDES ACCESS TO AN INEXPENSIVE, EASY TO MAINTAIN FILTRATION UNIT FOR LOW PRESSURE OIL APPLICATIONS

DESIGNED FOR HIGH FLOW FILTRATION

COMPATIBLE WITH PETROLEUM BASED
OIL IN MOBILE AND INDUSTRIAL
APPLICATIONS

GENERAL USES FOR SUCTION LINES, RETURN LINES, FILLING OIL TANKS, AND OTHER LOW PRESSURE/HIGH FLOW OIL APPLICATIONS

WORKS WITH ANY STANDARD AUTOMOTIVE OIL FILTER WITH 3/4" NPT THREAD

READY FOR IMMEDIATE SHIPMENT

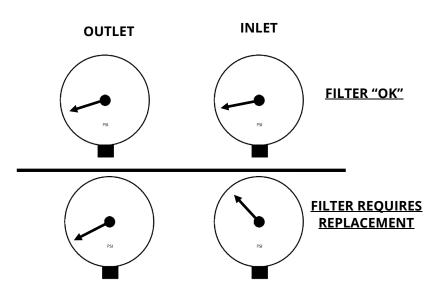
MADE IN



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BULLETIN: LSM026 LAST REVISED: 10/02/2018

FUNCTION ILLUSTRATION & SPECIFICATIONS



Oil is decontaminated by passing lubricant through the filter element. Installation of pressure gages make indication of element replacement easy. The filter is functioning properly when both gauges are at approximately the same psi level.

During filtration, particles are left behind in the filter element. Over time, the contaminated build up against the filter wall creates flow resistance. As the resistance increases, the outlet pressure will rise as it tries to push the lubricant through the clogged filter. When the outlet pressure is noticeably higher (~40 psi) than the inlet pressure, it is time to replace the filter.



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BULLETIN: LSM026 LAST REVISED: 10/02/2018 2

ORDERING INFORMATION & PART NUMBERS

SPIN-ON OIL FILTER ASSEMBLY

ANODIZED ALUMINUM MANIFOLD
STAINLESS STEEL PRESSURE GAGES
MOUNTING BRACKET
HIGH FLOW FILTER
CANISTER FOR OIL USE ONLY

MAX PRESSURE: 150 PSI

STANDARD PACK: 1 EACH	
PART DESCRIPTION	PART NUMBER
SPIN-ON FILTER COMPLETE ASSEMBLY	LPFA-118-AL
REPLACEMENT ELEMENT	LPFA-118-RFE





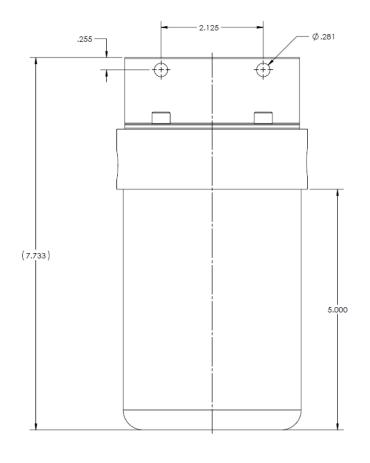


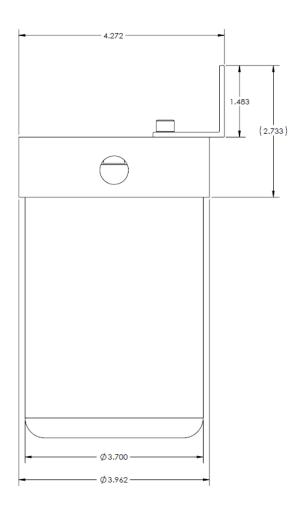
REPLACEMENT ELEMENT

BULLETIN: LSM026 LAST REVISED: 10/02/2018

DIMENSIONS & MOUNTING INFORMATION

DIMENSIONS ARE IN INCHES





BULLETIN: LSM026 LAST REVISED: 10/02/2018







DIGITAL COMPRESSOR MONITORS

PRODUCT DESCRIPTION BENEFITS & FEATURES

MONITORS AND TRACKS DIVIDER VALVE OPERATION OF LUBRICATION SYSTEMS

MONITOR CONTINUOUSLY ANALYZES DIVIDER VALVES AND PERFORMS A SHUT DOWN IF THERE IS A PROBLEM, PREVENTING DAMAGE

PROGRAMMABLE RANGES FROM 20 SEC. TO 4 MIN. & 30 SEC.

MONITOR AUTOMATICALLY SCROLLS AND DISPLAYS CYCLE TIME, FLOW RATE, TOTAL STROKES, ALARM STATUS, AND TOTAL SYSTEM RUN TIME

AVAILABLE IN 120VAC OR 24VDC @ .040A & "AA" BATTERY POWERED

BATTERY POWERED MONITORS HAVE A LIFE EXPECTANCY OF 5-10 YEARS AND COME EQUIPPED WITH A LOW BATTERY ALARM INDICATOR.

MONITORS ARE AVAILABLE WITH OR WITHOUT EXPLOSION PROOF HOUSINGS FOR HAZARDOUS CONDITIONS

SINGLE AND DUAL ZONE MONITORS

EXTERNAL POWER NOT REQUIRED, BATTERY POWERED OPTIONS AVAILABLE

LONG BATTERY LIFE

EXPLOSION PROOF ENCLOSURES

PROGRAMMABLE ALARM & SHUTDOWN
PROTECTION PROTECTS COMPRESSORS FROM
DAMAGE DUE TO LOSS OF LUBRICATION

DIGITAL LCD DISPLAY

FAILSAFE - OPEN AND CLOSED MODES

READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTIONAL ILLUSTRATION

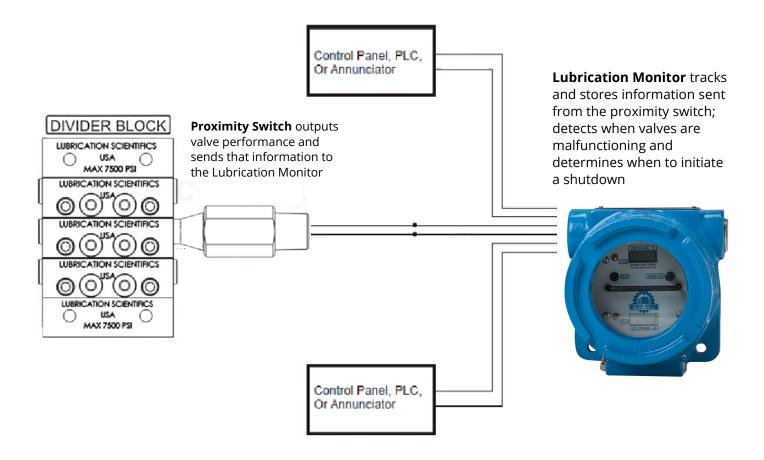


ILLUSTRATION DESCRIPTION

During a lube event, the lubrication monitor is constantly analyzing the performance of the lubrication system by way of the proximity switch. It tracks the following data: cycle time, flow rate, piston strokes, alarm status, and total system run time.

During a lube event where the proximity switch isn't detecting piston movement, an alarm is triggered from the Lubrication monitor for a set amount of time.

Once the alarm time expires, the lubrication monitor will then proceed to shut down the compressor before any damage can be incurred by a lack of lubrication.

LSM-601-AC & LSM-602-AC SERIES: MONITOR SPECIFICATIONS

LSM-601AC SINGLE ZONE MONITOR

ENCLOSURE EXPLOSION PROOF CLASS I DIV I GROUPS A,B,C,D

POWER 120VAC OR 24VDC @ .040 amps

ALARM SWITCH FORM C CONTACT 120VAC @ 5 amps

ALARM TIME PROGRAMMABLE: -3 - 250 seconds

TEMPERATURE

RANGE

WARRANTY

0 - 150 DEGREES f (-32 - 70 DEGREES C)

DISPLAY CYCLE TIME (sec), FLOW RATE (pints/day), TOTAL STROKES, TOTAL SYSTEM RUN TIME

(hours)

1 YEAR

MEMORY LAST 100 CYCLES

PROXIMITY SWITCH 1 PROXIMITY SWITCH REQUIRED - REFER TO BULLETIN LSM003

LSM-602AC DUAL ZONE MONITOR

ENCLOSURE EXPLOSION PROOF CLASS I DIV I GROUPS A,B,C,D

POWER 120VAC OR 24VDC @ .040 amps

ALARM SWITCH FORM C CONTACT 120VAC @ 5 amps

ALARM TIME PROGRAMMABLE: -3 - 250 seconds

TEMPERATURE

RANGE

0 - 150 DEGREES f (-32 - 70 DEGREES C)

WARRANTY 1 YEAR

DISPLAY CYCLE TIME (sec), FLOW RATE (pints/day), TOTAL STROKES, TOTAL SYSTEM RUN TIME

(hours)

MEMORY LAST 100 CYCLES PER ZONE

PROXIMITY SWITCH 2 PROXIMITY SWITCH REQUIRED - REFER TO BULLETIN LSM003





LSM-701BA & LSM-702BA SERIES: MONITOR SPECIFICATIONS

LSM-701BA SINGLE ZONE MONITOR

ENCLOSURE EXPLOSION PROOF, CLASS I DIV I GROUPS A,B,C,D

POWER 2 "AA" 1.5V BATTERIES - REGULAR OR ALKALINE BATTERIES OK

ALARM SWITCH 10VA/120VAC/240 VDC

ALARM TIME PROGRAMMABLE: -20 - 270 seconds

TEMPERATURE

RANGE

-40- 170 DEGREES F

WARRANTY 2 YEARS

DISPLAY/STROKES 0-99999

MEMORY LAST 100 CYCLES

PROXIMITY SWITCH 1 PROXIMITY SWITCH REQUIRED - REFER TO BULLETIN LSM003



LSM-702BA DUAL ZONE MONITOR

ENCLOSURE EXPLOSION PROOF, CLASS I DIV I GROUPS A,B,C,D

POWER 2 "AA" 1.5V BATTERIES

ALARM SWITCH 10VA/120VAC/240 VDC

ALARM TIME PROGRAMMABLE: -20 - 270 seconds

TEMPERATURE

RANGE

-40- 170 DEGREES F

WARRANTY 2 YEARS

DISPLAY/STROKES 0-99999

MEMORY LAST 100 CYCLES PER ZONE

PROXIMITY SWITCH 2 PROXIMITY SWITCH REQUIRED - REFER TO BULLETIN LSM003



ORDERING INFORMATION & PART NUMBERS

COMPRESSOR MONITORS

STANDARD PACK: 1 EACH			
COMPRESSOR MONITOR—NO ENCLOSURE		PART NUMBER	
DIGITAL LUBRICATION MONITOR W/O ENCLOSURE	SINGLE ZONE, AC POWERED	LSM-601AC	
DIGITAL LUBRICATION MONITOR W/O ENCLOSURE	DUAL ZONE, AC POWERED	LSM-602AC	
DIGITAL LUBRICATION MONITOR W/O ENCLOSURE	BATTERY POWERED, SINGLE ZONE	LSM-701BA	
DIGITAL LUBRICATION MONITOR W/O ENCLOSURE	BATTERY POWERED, DUAL ZONE	LSM-702BA	

Note: Refer to bulletin LSM003 for proximity switch specifications and ordering information.

STANDARD PACK: 1 EACH		
COMPRESSOR MONITOR—WITH EXPLOSION PROOF	PART NUMBER	
DIGITAL LUBRICATION MONITOR W/ ENCLOSURE	SINGLE ZONE, AC POWERED	LSM-601AC-XPE
DIGITAL LUBRICATION MONITOR W/ ENCLOSURE	DUAL ZONE, AC POWERED	LSM-602AC-XPE
DIGITAL LUBRICATION MONITOR W/ ENCLOSURE	BATTERY POWERED, SINGLE ZONE	LSM-701BA-XPE
DIGITAL LUBRICATION MONITOR W/ ENCLOSURE	BATTERY POWERED, DUAL ZONE	LSM-702BA-XPE

Note: Refer to bulletin LSM003 for proximity switch specifications and ordering information.

LSM-601AC-XPE / LSM-602AC-XPE MODELS



LSM-701BA-XPE / LSM-702BA-XPE MODELS



DUAL ZONE MONITOR (Zone #1/Zone #2)

MONITORS AND RECORDS OPERATION OF DIVIDER BLOCK LUBRICATION SYSTEMS



LSM-601/602-AC

SPECIFICATIONS

EnclosureCompliant with Class I Division I Groups A, B, C, D Power120VAC or 24VDC@.040 amps
Alarm SwitchForm C Contact 120 VAC @ 5 amps N.O. COM. N.C. Alarm TimeProgrammable - 3 sec to 250 seconds
Temperature Range0 to +150 F (-32 to +70 C)
Warranty1 Year
DisplayCycle Time(Sec), Flow Rate(Pints/Day), Total Strokes,
Alarm Status, Total System Run Time(Hours) Memory100 Cycle times Zone #2, 100 Cycle times Zone #1
Proximity Switch2 included, Class I Div I Grps A, B, C, D

DISPLAY: Automatically scrolls between Pints/Day, Cycle Time, Total Strokes, System Run Time.

Pressing (INC.) Will lock display at the present function.

Pressing the (EXIT) will release the scroll lock and return to automatic.

DISPLAY FUNCTIONS:

Pints/Day ZONE#1 and ZONE #2

Z1 XXX.X P/D Pints/Day Zone #1

Z2 XXX.X P/D Pints/Day Zone #2

Cycle time ZONE#1

Z1 XXX.X SEC Cycle time in seconds
PREV. XXX.X Previous Cycle time for Zone#1

Cycle time ZONE #2

Z2 XXX.X SEC Cycle time in seconds
PREV. XXX.X Previous Cycle time for Zone#2

Totalstrokes ZONE#1 and ZONE#2

Z1 XXXXXX STK Total Strokes Zone#1

Z2 XXXXXX STK Total Strokes Zone #2

Total run time in hours

000.0000

DESCRIPTION

The LSM-602AC is a microprocessor based dual mode monitor for the display and control of progressive inline lubrication systems. Proximity switches mounted to the divider block system for Zone #1 and Zone #2 signals the LSM-602AC each cycle. The time between cycles is displayed on the LCD readout as time into the current cycle as well as the time for the previous cycle. Each 10 seconds the display changes to show the flow rate in pints/day, cycle time, total strokes, and system run time for both Zone #1 and Zone #2. If the time between cycles exceeds the programed alarm time an alarm signal is activated. The last 100 cycletimes for the Zone #1 and Zone #2 lubrication systems are stored in permanent memory and can be read out via local control of program buttons.

MONITOR DISASSEMBLY INSTRUCTIONS

FOR WIRING AND BOARD ACCESS

FOR MODELS: LSM-601/602/701/702 MODELS

TOOLS NEEDED: 1/16" ALLEN WRENCH AND SMALL FLAT HEAD

SCREWDRIVER

DISASSEMBLY OF MONITOR FOR WIRING ACCESS

STEP 1: REMOVE SET SCREW ON MONITOR HOUSING.

STEP 2: REMOVE THE EXPLOSION PROOF LID FROM THE MONITOR BODY BY UNSCREWING COUNTERCLOCKWISE. UNSEATING MAY BE DIFFICULT DUE TO O-RING SEAL.

STEP 3: REMOVE THE DIGITAL DISPLAY PANEL FROM THE HOUSING BODY. REMOVE USING THE BLACK HANDLES. PULLING STRAIGHT OUT MAY BE DIFFICULT, PULL FROM ONE SIDE AT A TIME LITTLE BY LITTLE UNTIL THE DISPLAY IS ABLE TO WIGGLE FREE.

ONCE THE DISPLAY IS OFF, YOU WILL NOW HAVE ACCESS TO THE BOARD FOR WIRING. USE THE DIAGRAMS ON THE FOLLOWING PAGES FOR PINOUTS AND WIRING.

REASSEMBLING THE MONITOR

STEP 1: MAKE SURE ALL WIRING IS OUT OF THE WAY OF THE BANANA PLUGS. ENSURE ALL EXPOSED WIRE IS PROTECTED FROM SHORTING.

STEP 2: HOLDING THE BLACK HANDLES, LINE UP THE DISPLAY SO THAT THE HORIZONTAL LINE OF THE SCREEN IS PARALLEL TO THE TOP OF THE MONITOR. SLOWLY PRESS THE DISPLAY EVENLY AND DOWNWARD INTO THE BODY. YOU SHOULD BE ABLE TO FEEL THE PLUGS GUIDING INTO THE CORRESPONDING CONNECTORS. IF THE DISPLAY FEELS TO BE PROPERLY ALIGNED, CONTINUE TO PRESS DOWNWARD UNTIL YOU FEEL THE DISPLAY BOTTOM OUT. THE BLACK HANDLES SHOULD SIT JUST ABOVE THE TOP OF THE BODY THREADS.

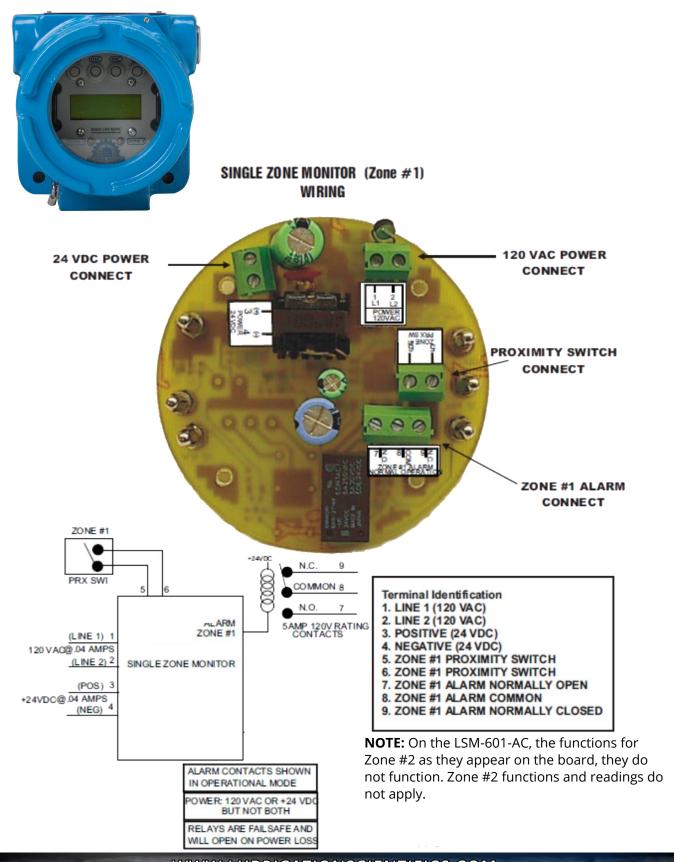
STEP 3: SCREW THE LID ON UNTIL THE LID IS FLUSH WITH THE BODY. SCREW IN THE SET SCREW TO SECURE.





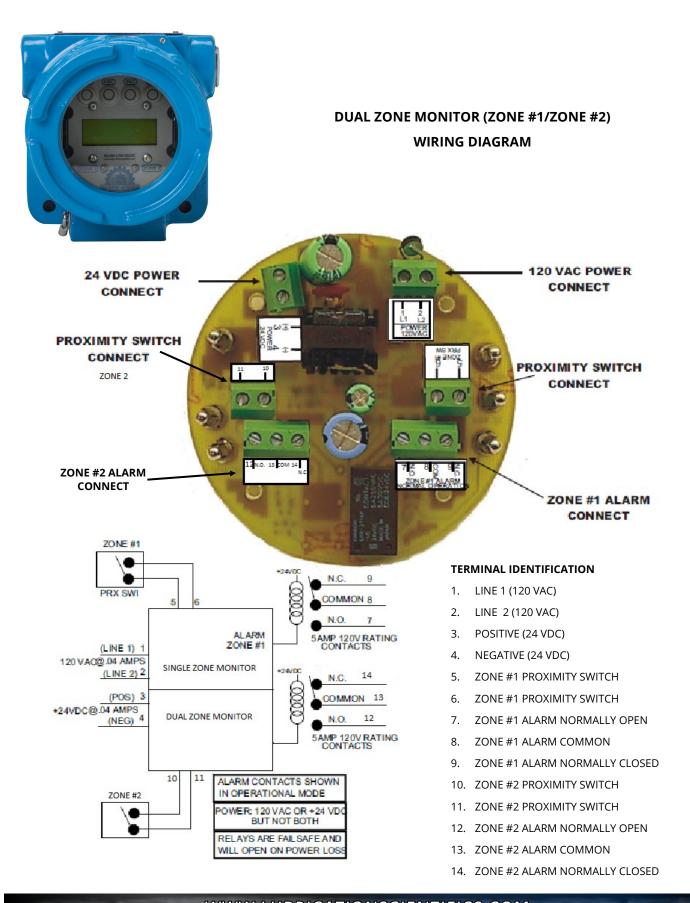


WIRE DIAGRAMS FOR LSM-601-AC MODEL



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WIRE DIAGRAMS FOR LSM-602-AC MODEL



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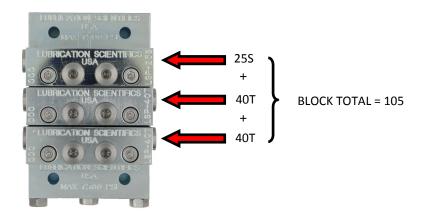
PROGRAMING INSTRUCTIONS FOR LSM-602-AC MODEL

TO SCROLL BETWEEN FUNCTIONS: PRESS AND HOLD "PRG" USE THE INC OR DEC BUTTONS TO SCROLL BETWEEN FUNCTIONS.

PRESSING THE "EXIT" BUTTON WILL RETURN TO THE NORMAL SCAN.

FIRST STEP WILL BE TO ENTER THE BLOCK TOTALS FOR EACH ZONE (BLK TOTL). ADD UP THE VALUES STAMPED ON THE FACE OF EACH DIVIDER BLOCK FOR THAT ZONE.

EX. IF YOU HAVE 3 VALVES VALUED AT 25<u>S</u>, 40T, & 40T. THE TOTAL BLOCK VALUE WOULD BE 105. SEE BELOW.



FUNCTION SELECTION	PROGRAMMABLE PARAMETERS	USE BUTTONS TO SET
ZONE #1 BLOCK TOTAL	18-144 BLK TOTL	INC OR DEC
ZONE #2 BLOCK TOTAL	18-144 BLK TOTL	INC OR DEC
ZONE #1 ALARM	3-250 SECONDS	INC OR DEC
ZONE #2 ALARM	3-250 SECONDS	INC OR DEC
ZONE #1 CYCLE TIME MEMORY	TO VIEW LAST 100 CYCLE TIMES	INC OR DEC
ZONE #2 CYCLE TIME MEMORY	TO VIEW LAST 100 CYCLE TIMES	INC OR DEC

DISPLAY

AUTOMATICALLY SCROLLS BETWEEN: PINTS/DAY, CYCLE TIME, TOTAL STROKES, AND SYSTEM RUN TIME.

PRESSING "INC" WILL LOCK THE DISPLAY AT THE PRESENT FUNCTION.

PRESSING "EXIT" WILL RELEASE THE SCROLL LOCK AND RETURN TO AUTOMATIC SCROLL

THE FOUR BUTTONS ARE USED TO CHANGE THE SETUP PARAMETERS

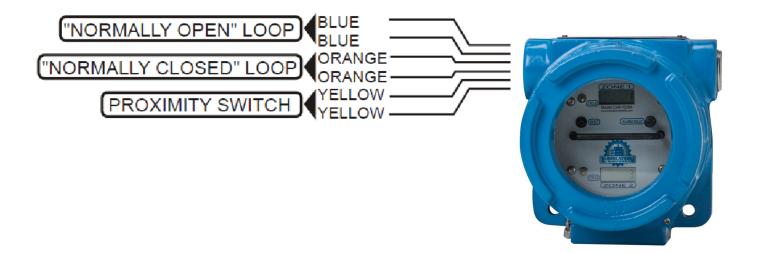
PROGRAM MENU ITEMS ARE ASSESSED BY PRESSING THE "PRG" BUTTON

PRESSING THE "PRG" + "EXT" OR "PRG" + "INC" AT THE SAME TIME WILL ACCESS THE OTHER MENU ITEMS.

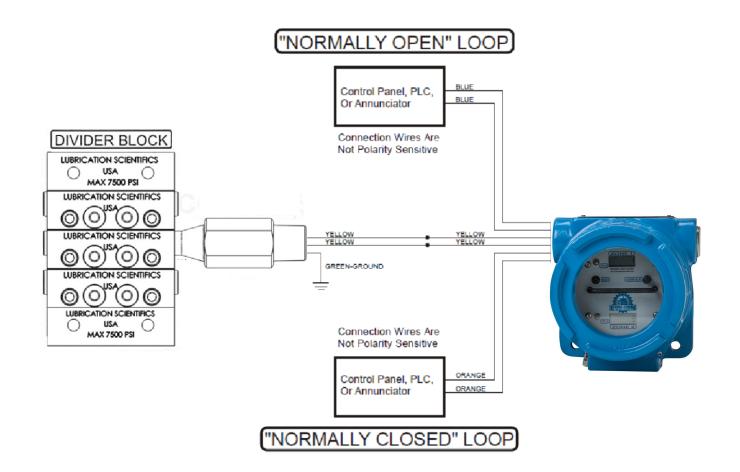
HOLDING THE "PRG" AND "EXT" BUTTONS WILL SCROLL SLOWLY THEN RAPIDLY IF HELD DOWN

THE "EXIT" BUTTON WILL RETURN TO THE DISPLAY PRG IF PRESSED AT ANYTIME

WIRE DIAGRAM FOR LSM-701-BA MODEL

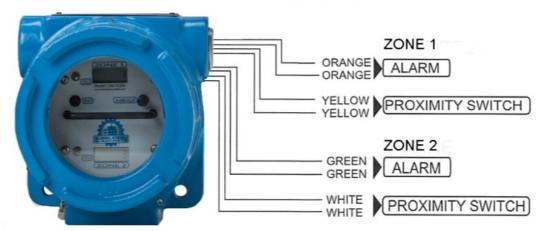


WIRING DIAGRAM FOR "OPEN LOOP OR CLOSED LOOP" OPERATION

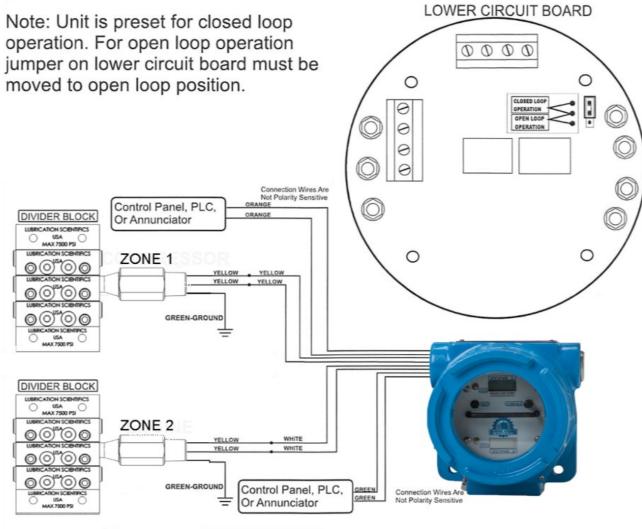


Digital Lubrication Monitor

WIRING INSTRUCTIONS PART# LSM-702BA-XPE



WIRING DIAGRAM FOR "CLOSED LOOP OR OPEN LOOP" OPERATION



PROGRAMING INSTRUCTIONS FOR LSM-701BA AND LSM-702BA MODELS

PROGRAMMING INSTRUCTIONS:

TO VIEW ALARM TIME: PRESS AND HOLD THE "RESET" BUTTON UNTIL ALARM TIME IS SHOWN.

NOTE: KEEPING THE RESET BUTTON DEPRESSED WILL RESET THE CYCLE INDICATOR TO 0

RESETTING THE CYCLE INDICATOR: PRESS AND HOLD THE "RESET" BUTTON UNTIL THE CYCLE INDICATOR COUNT SHOWS 0 AND FLASHES THE ALARM TIME AT ONE SECOND INTERVALS.

ADJUSTING THE ALARM TIME: HOLD THE "RESET" TIMER AND TURN THE "ALARM DELAY" KNOB O THE DESIRED SECONDS INTERVAL.

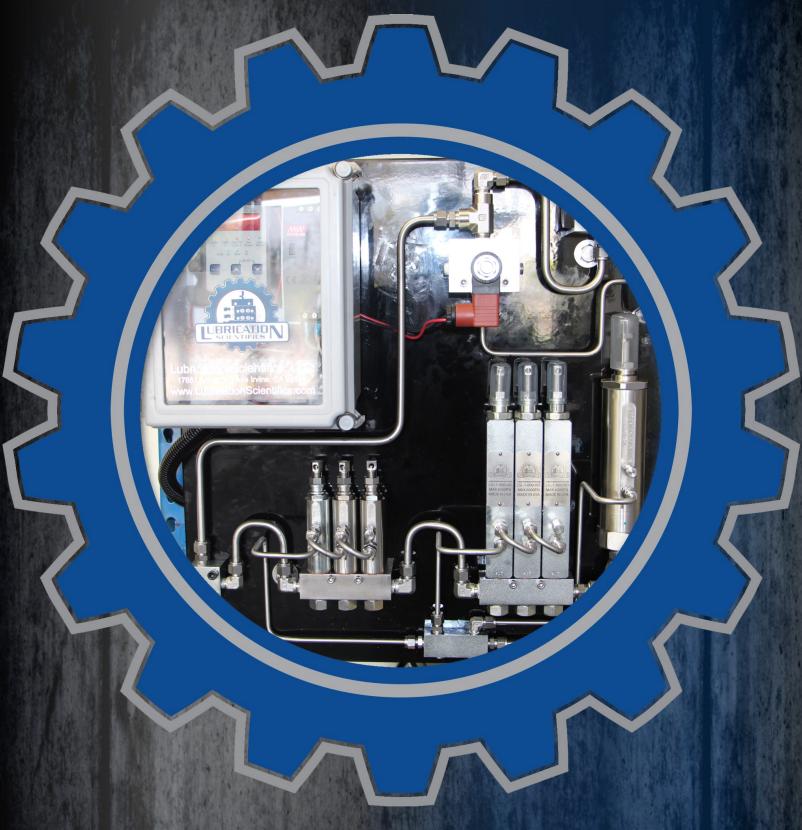
NOTE: YOU CAN ADJUST THE ALARM DELAY WITHOUT RESETTING THE CYCLE INDICATOR TO 0. WHEN HOLDING RESET, JUST ADJUST THE "ALARM DELAY" THEN DEPRESS THE "RESET" BUTTON

OTHER NOTES:

- THE ALARM TIME IS NOT AFFECTED BY TEMPERATURE CHANGE.
- THE LSM-701 &702 MODELS ARE A BIPOLAR DEVICE. IT IS NOT NECESSARY TO DETERMINE THE POLARITY OF THE WIRES COMING FROM THE ANNUNCIATOR, PLC, OR OTHER TYPES OF SHUTDOWN CONTROLLERS BECAUSE THE CLOSED AND OPEN LOOP ALARM CIRCUITS ARE A BIPOLAR DEVICE.

LUBRICATION SCIENTIFICS, LLC

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



FULL FEATURED LUBRICATION SYSTEM CONTROLLER

MULTI-ZONE—SOLID STATE—BOX UNITS







LUBRICATION SYSTEM CONTROLLER

PRODUCT DESCRIPTION

FULL FEATURED, SOLID STATE, MULTI ZONE LUBRICATION SYSTEM CONTROLLER

UP TO SIX INPUTS FROM SYSTEM SENSORS & TWO OUTPUTS

PROGRAMMABLE ALARM INPUTS INCLUDE LOW RESERVOIR LEVEL, HIGH PRESSURE DETECTION, ZONE CYCLE VERIFICATION, MOTOR LOW/HIGH CURRENT LEVELS

OUTPUT CONTROLS INCLUDE ENERGIZING
PUMP TO INITIATE LUBE EVENT AND
ENERGIZE ALARM CIRCUIT FOR SYSTEM
FAULT NOTIFICATIONS

BENEFITS & FEATURES

MONITORS LUBE SYSTEM IN ITS ENTIRETY

FAULT MONITORING

MULTI-MONITORING OF LUBRICATION MONITORS, LUBRICATION PUMPS, HIGH PRESSURE SWITCHES, & LUBRICATION LEVELS

CONTROLS AIR SOLENOIDS FOR SPRAY
SYSTEMS

CONTROL OF LUBRICATION AND MACHINE
SHUTOFF TIMES

PROGRAMMABLE CONSTRAINTS TO DICTATE HOW THE CONTROLLER PERCEIVES AND ACTS UPON ALARMS

AVAILABLE SUPPLY RANGES POWER OF 24VDC-580VAC

READY FOR IMMEDIATE SHIPMENT

MADE IN

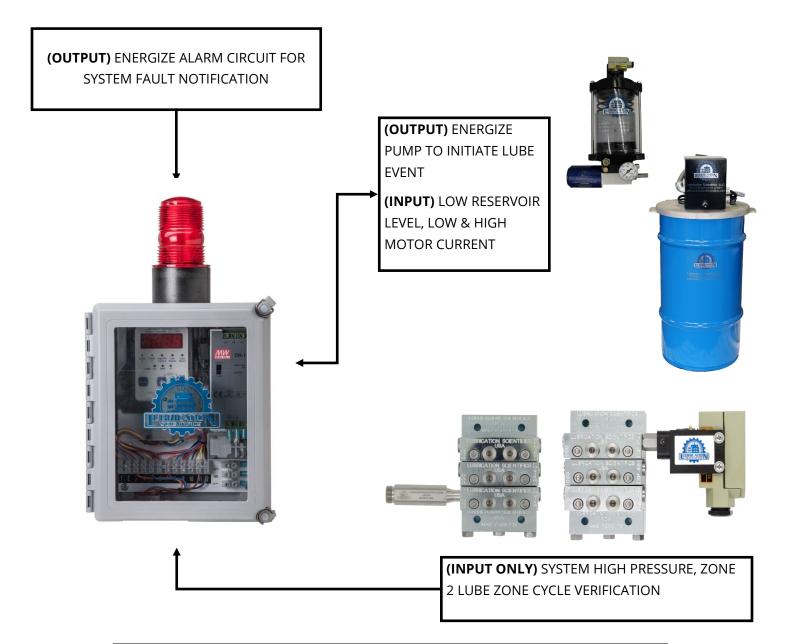


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ORDERING INFORMATION & PART NUMBERS

FULL FEATURED, SOLID STATE, MULTI-ZONE LUBRICATION SYSTEM CONTROLLER WITH UP TO SIX INPUTS FROM SYSTEM SENSORS AND TWO OUTPUTS.

DESIGNED TO POWER 24VDC, 115 VAC, & 240 VAC PUMPS



PRODUCT DESCRIPTION	PART NUMBER
UNIVERSAL COMPLETE SYSTEM CONTROLLER BOX SETUP 115 VAC	LSC-100A-AC-U115
UNIVERSAL COMPLETE SYSTEM CONTROLLER BOX SETUP 240 VAC	LSC-100AC-U240

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LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

LSC-100A





- USE WITH 12 VDC /24 VDC POWER SUPPLY FROM VEHICLE OR OTHER POWER SOURCE.
- USE WITH LS CABLE FOR DIRECT CONNECT TO PUMPING UNIT

LSC-100A-AC-LS







- USE WITH 115 VAC / 230 VAC POWER SUPPLY FROM PLANT POWER SOURCE, OR OTHER POWER SOURCE.
- USE WITH LS CABLE FOR DIRECT CONNECT TO PUMPING UNIT

LSC-100A-AC-U115





- USE WITH 115 VAC / 230 VAC POWER SUPPLY FROM PLANT POWER SOURCE.
- NO LS CABLE REQUIRED
- CONNECT I/O USING CONTROLLER TERMINAL STRIP

LSC-100A-AC-U140





- USE WITH 240 VAC / 480 VAC SINGLE PHASE FROM PLANT POWER SOURCE.
- NO LS CABLE REQUIRED
- CONNECT I/O USING CONTROLLER TERMINAL STRIP

ORDERING INFORMATION & PART NUMBERS







LSC-100A STAND ALONE CONTROLLER

COMPATIBLE PUMP STYLES











PRODUCT DESCRIPTION	PART NUMBER
STAND ALONE SYSTEM CONTROLLER	LSC-100A
WIRE LOOM KIT FOR LSC-100A 24 V FOR 3 POSITION CONTROLLER	LSC-100A-LKW3P
WIRE LOOM KIT FOR LSC-100A 24 V FOR 6 POSITION CONTROLLER	LSC-100A-LKW6P

The LSC-100A-AC-LS IS FOR USE WITH 12 & 24 VOLT BARREL & MOUNTABLE PUMPS. SEE BULLETIN LSM018 FOR IMFORMATION ON PUMPS.

PRODUCT DESCRIPTION	PART NUMBER
COMPLETE SYSTEM CONTROLLER BOX SETUP	LSC-100A-AC-LS

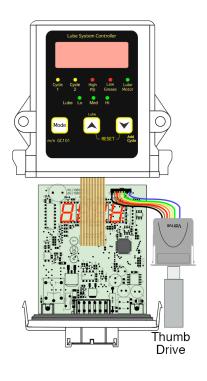
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LSC-100A-TEST CONTROLLER TEST BOX



- USE TO SIMULATE ALL POSSIBLE CONDITIONS AND ENVIRONMENTS
- ALLOWS FOR CONTROLLER PROGRAMMING AND TESTING OFF-SITE

LSC-100A-USB V-DRIVE CONTROLLER UPDATE DEVICE



- ENABLES CUSTOMER/DISTRIBUTOR TO UPDATE CONTROLLER SOFTWARE ON EXISTING INSTALLED UNITS
- ENSURES ALL CONTROLLERS HAVE THE LATEST SOFTWARE UPDATE WITH CURRENT FEATURES AND FIXES



PROGRAMMING INSTRUCTIONS

KEYS: MODE: SHIFT KEY INC: UP ARROW KEY DEC: DOWN ARROW KEY

MENU NUMBERS:

There are (33) different menus, (the full menu list is shown on the next page). For purposes of this manual, the following will be used, when referring to a specific menu number.

Menu no. 7 = M7, Menu no. 24 = M24, etc.

The MENU LIST is grouped, as follows:

M2 thru M9Programmable Timer settingsM10 thru M19Programmable operational settingsM20 thru M28Status and Operational timer displaysM30 thru M32Test INPUTS & OUTPUTS and CHECKSUM

M99 Pass Code entry

CHECKSUM is the PROGRAM IDENTIFIER

(Note; M29, M33-97, are not assigned)

MOVING THROUGH THE MENUS:

Press and hold the **Mode** key, use the **INC** or **DEC** keys to select a menu number, release the **Mode** key. Briefly the menu Tag name is displayed, then the value of the current setting is displayed for view or edit.

Pass Code In order to change settings for any menu item it requires the operator enter a pass code, see M99. Without a

valid pass code the operator can only view menus and settings. User Pass Code = 181

Checksum The checksum is a program verification process. Each time the LSC-100A is powered up the program's checksum

is evaluated and displayed before the unit goes into Run mode.

Note; The Checksum is a 4-digit hexadecimal number. (Examples. 72b9, 6EFd, 7d4B, F9EC, etc.)

Errors The LSC-100A can determine (6) different conditions. If any of these occur and Error code is displayed and a beeper sounds. To silence the beeper press both the **INC** and **DEC** keys. Each error has an accumulated timer to

record how long an error occurred. Following is a list of errors;

E1 - Hi Psi switch indication a possible blockage in the lube line

E2 - Lube reservoir is low

E3 - Too few pulses received on Cycle Switch #1

E4 - Too few pulses received on Cycle Switch #2

E5 - Motor current is too low, likely there is an open circuit

E6 - Motor current is over 9 amps, likely there is a short circuit

Status LED's There are (5) status LED's located along the bottom edge of the display window. The first LED (Yellow on the left)

indicates each time Cycle Switch#1 transitions. The second LED (Yellow) indicates each time Cycle Switch#2 transitions. The third LED (Red) indicates High PSI input is active. The fourth LED (Red) indicates when the lube

reservoir is low. And the fifth LED (Green) indicates when the pump motor is on.

Lube Modes There are (3) Lubrication modes of operation. Each has On/Off time settings (see next page). Mode is selected

with the **INC** key.

Extra Cycle To add an extra Lube Cycle Press and hold the **DEC** key for 2 seconds.

MENU FUNCTION LIST WITH FACTORY SETTINGS

<u>Menu</u>	#Tag	Factory Setting	<u>Function</u>
1	run	· ·	RUN MODE: Lube timer is displayed HOURS (hh), MINUTES (mm) & SECONDS, (ss) PUMP ON is shown in MINUTES (mm) & SECONDS (ss) and PUMP OFF is shown in HOURS (hh) and MINUTES (mm).
2	1 on	30 Min	SET PUMP ON TIMER for LOW LUBE SETTING. Set MINUTES (mm) & SECONDS (ss). Range: 0-59 minutes (mm), & 5-59 seconds (ss). Wait 5 seconds, after releasing MODE key, use INC / DEC to change minutes/seconds. Press both INC & DEC together to move cursor between minutes (mm) & seconds (ss).
3	1 oF	5 Min	SET PUMP OFF TIMER for LOW LUBE SETTING. If Menu #8 = tiE, set HOURS (hh) & MINUTES (mm). Range (0-48 hours & 2-59 minutes). Use INC / DEC to set either HOURS (hh) or MINUTES (mm). Press both INC & DEC together to move cursor between hours (hh) and minutes (mm). If Menu #8 = PULS, Use INC / DEC to set OFF pulse set point.
4	2 on	5 Min	SET PUMP ON TIMER for MEDIUM LUBE SETTING. Set MINUTES (mm) & SECONDS (ss). Range: 0-59 minutes (mm), & 5-59 seconds (ss). Wait 5 seconds, after releasing MODE key, use INC / DEC to change minutes/seconds. Press both INC & DEC together to move cursor between minutes (mm) & seconds (ss).
5	2 oF	30 Min	SET PUMP OFF TIMER for MEDIUM LUBE SETTING. If Menu #8 = tiE, set HOURS (hh) & MINUTES (mm). Range (0-48 hours & 2-59 minutes). Use INC / DEC to set either HOURS (hh) or MINUTES (mm). Press both INC & DEC together to move cursor between hours (hh) and minutes (mm). If Menu #8 = PULS, Use INC / DEC to set OFF pulse set point.
6	3 on	5 Min	SET PUMP ON TIMER for HIGH LUBE SETTING. Set MINUTES (mm) & SECONDS (ss). Range: 0-59 minutes (mm), & 5-59 seconds (ss). Wait 5 seconds, after releasing MODE key, use INC / DEC to change minutes/seconds. Press both INC & DEC together to move cursor between minutes (mm) & seconds (ss).
7	3 oF	30 Min	SET PUMP OFF TIMER for HIGH LUBE SETTING. If Menu #8 = tiE, set HOURS (hh) & MINUTES (mm). Range (0-48 hours & 2-59 minutes). Use INC / DEC to set either HOURS (hh) or MINUTES (mm). Press both INC & DEC together to move cursor between hours (hh) and minutes (mm). If Menu #8 = PULS, Use INC / DEC to set OFF pulse set point.

MENU FUNCTION LIST WITH FACTORY SETTINGS

Menu #Tag		Factory Setting	<u>Function</u>
8	OF t	tiE	Select lube off mode; based on cycle pulses or based on time. PULS = cycle count mode or tiE = timer mode. This setting applies to all 3 modes (Low, medium, and High).
9	OF S	Hr.In	Select Off Time Scale.
			If Menu #9 = Hr.In, the off time setting will be in Hours & Minutes
			If Menu #9 = In.Sc, the off time setting will be in Minutes & Seconds
10	SEtr	tiE	Select lube run mode; based on cycle pulses or based on time. PULS = cycle count mode or tiE = timer mode
11	CyC1	0	Set Cycle count set point #1
12	CyC2	0	Set Cycle count set point #2
13	HI-F	45 Sec	High psi set accum. time required to create an error (range 5 - 120 sec, INC once beyond 120 = Off)
14	Lo-F	Off	Low lube set accum. time required to create an error (range is 1 - 10, 10 - 120 sec, INC beyond 120 = Off)
15	Lo-P	POS	Low Lube sensor switch polarity press INC to select POS or NEG
16	L-tP	FL-0	Lamp Type, select the mode for the dash lamp, Press INC to select. FL-0 = flash mode, flash the Error number and no motor status FL-1 = flash mode, flash the Error number and On continuous = motor On Cont = continuous mode, On = Error, Off = no Error, no motor status
17	P-Ot	FULL	Pump voltage output. Set pump voltage. If set to FULL the controller will drive the pump to supply voltage. (range is 5.0 - 25.0 INC once beyond 25.0 = FULL)
18	P-tP	nl-C	Pump Type. Normal Current (nL-C), Low Current (Lo-C)
19	Strt	S-ti	Start up mode. Normal timer(S-ti), Always start a cycle at power up (S-on)
20	t-rn		View total motor run time hhhh mm.ss Press no key to view hhhh = hours Hold the INC key to view mm.ss mm = minutes, ss = seconds
21	t-to		View total System ON time hhhh mm.ss Press no key to view hhhh = hours Hold the INC key to view mm.ss mm = minutes, ss = seconds
22	t-rS		Reset run timers and error timers. Hold the INC button for 5 sec to clear.
23	t-E1		View total Over Pressure error time
24	t-E2		View total Low lube error time

MENU FUNCTION LIST WITH FACTORY SETTINGS, (CONT'D)

Menu #Tag		Factory Setting	<u>Function</u>
25	t-E3		View total Cycle switch error time
26	t-E4		View total Loss of revolution error time
27	t-E5		View total Motor error time (short or open)
28	A-Ct	OFF	Alarm Override; Allows Controller to continue operation for a specified number of faults. When enabled, a fault count will be displayed until a successful lube event occurs or the counter threshold is reached. Upon a successful lube event, the fault counter is reset. 2-999 = Controller will continue operation during fault condition for the specified number of faults. Off = Controller will not operate during fault conditions.
30	inS		Test (7) inputs, (2) outputs; Press INC = Dash lamp, press DEC = Beeper Vertical bars; Off time cycle Sw, Dash PB, Cycle sw2, Cycle sw1, Low lube, Hi Psi sw
31	P-tS		Motor test, display amps, press INC = Motor On, DEC = Motor Of
32	SErL		View Serial number
98	type	PUP	Grease System Type PUP = Standard Pump Type Grease System Spry = Spray Grease System
99	P-Cd		Enter Pass code, use INC or DEC keys until the pass code is displayed. After 4 minutes w/ no key strokes, the controller will revert back to the Run Mode.

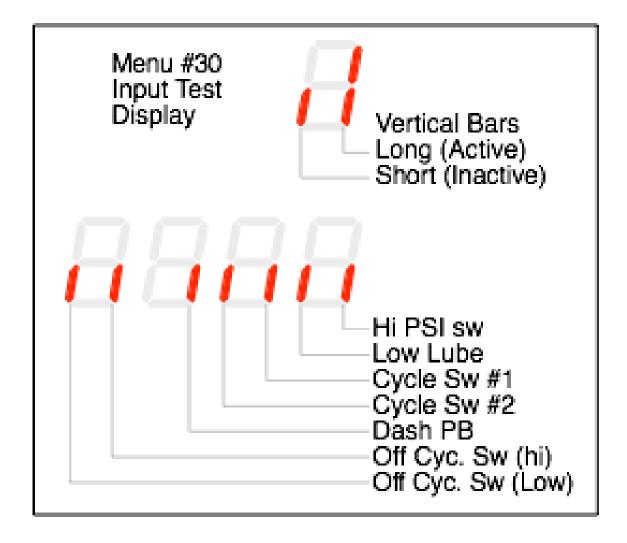
Spray Grease System Menus

1	run		Run mode, lube timer is displayed (hours hh) (minutes mm) (seconds ss). Pump on is mm ss and Pump off is hh mm
2	t-on	30 Min	Set pump ON timer. Set min/sec mm ss range (0-59 min, 5-59 sec) wait 5 sec after releasing Mode key, use INC / DEC to change min/sec. Press both INC & DEC together to move cursor between mm & ss
3	t-oF	5 Min	Set pump OFF time.
			If Menu #8 = tiE, set hrs/min hh mm range (0-48 hrs, 2-59 min). Use INC / DEC to set either hrs or min. Press both INC & DEC together to move cursor between hh and mm.
			If Menu #8 = PULS, Use INC / DEC to set OFF pulse set point.
4	A-on	1 Min	Set Air valve on-time before the pump starts. Set min/sec mm ss range (0-4 min, 5-59 sec) wait 5 sec after releasing Mode key, use INC / DEC to change min/sec. Press both INC & DEC together to move cursor between mm & ss
5	A-oF	1 Min	Set Air valve on-time after the pump stops.
			Set hrs/min mm ss range (0-4min, 5-59 sec). Use INC / DEC to set either min or sec. Press both INC & DEC together to move cursor between mm and ss.
8	OF t	30 Min	Select lube off mode; based on cycle pulses or based on time. PULS = cycle count mode or tiE = timer mode.
9	OF S	Hr.ln	Select Off Time Scale. If Menu #9 = Hr.In, the off time setting will be in Hours & Minutes If Menu #9 = In.Sc, the off time setting will be in Minutes & Seconds
10	SEtr	tiE	Select lube run mode; based on cycle pulses or based on time. PULS = cycle count mode or tiE = timer mode.
11	CyC1	Off	Set Cycle count set point #1 (0 = Off)
12	CyC2	Off	Set Cycle count set point #2 (0 = Off)
13	HI-F	45 Sec	High psi set accum. time required to create an error (range 5 - 120 sec, INC once beyond 120 = Off)
14	Lo-F	Off	Low lube set accum. time required to create an error (range is 1 - 10, 10 - 120 sec, INC beyond 120 = Off)
15	Lo-P	POS	Low Lube sensor switch polarity press INC to select POS or NEG
17	P-Ot	FULL	Pump voltage output. Set pump voltage. If set to FULL the controller will drive the pump to supply voltage. (range is 5.0 - 25.0 INC once beyond 25.0 = FULL)
18	P-tP	nl-C	Pump Type. Normal Current (nL-C), Low Current (Lo-C)
19	Strt	S-ti	Start up mode. Normal timer(S-ti), Always start a cycle at power up (S-on)
20	t-rn		View total motor run time hhhh mm.ss Press no key to view hhhh = hours Hold the INC key to view mm.ss mm = minutes, ss = seconds

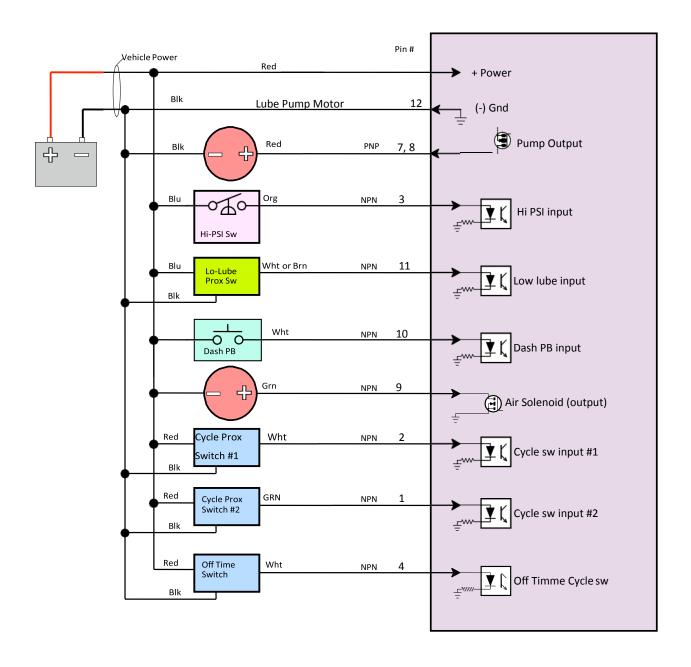
Spray Grease System Menus

21	t-to		View total System ON time hhhh mm.ss Press no key to view hhhh = hours					
			Hold the INC key to view mm.ss mm = minutes, ss = seconds					
22	t-rS		Reset run timers and error timers. Hold the INC button for 5 sec to clear.					
23	t-E1		View total Over Pressure error time					
24	t-E2		View total Low lube error time					
25	t-E3		View total Cycle Switch #1 error time					
26	t-E4		View total Cycle Switch #2 error time					
27	t-E5		View total Motor error time (short or open)					
30	inS		Test (7) inputs, (2) outputs; Press INC = Air Valve Press DEC =					
			Vertical bars; Off time cycle Sw, Dash PB, Cycle sw2, Cycle sw1, Low lube, Hi Psi sw					
31	P-tS		Motor test, display amps, press INC = Motor On, DEC = Motor Off					
32	SErL		View Serial number					
98	tyPE	PUP	Grease System Type PUP = Standard Pump type grease system SPry = Spray grease system					
99	P-Cd		Enter Pass code, use INC or DEC keys until the pass code is displayed. After 4 minutes w/ no key strokes, the GC101 will revert back to the Run mode.					

MENU FUNCTION LIST WITH FACTORY SETTINGS, (CONT'D)



GREASE SPRAY SYSTEM

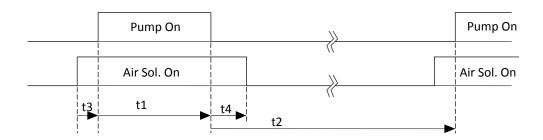


GREASE SPRAY SYSTEM



When setup as a grease spray system, this LED indicates the air solenoid status

When the air valve is on before the pump starts (t3 in diagram below) this LED will be on.



t1 (Menu #2) = Pump On time (Lube Motor & Lube Low LEDs = on)

t2 (Menu #3) = Pump OFF time

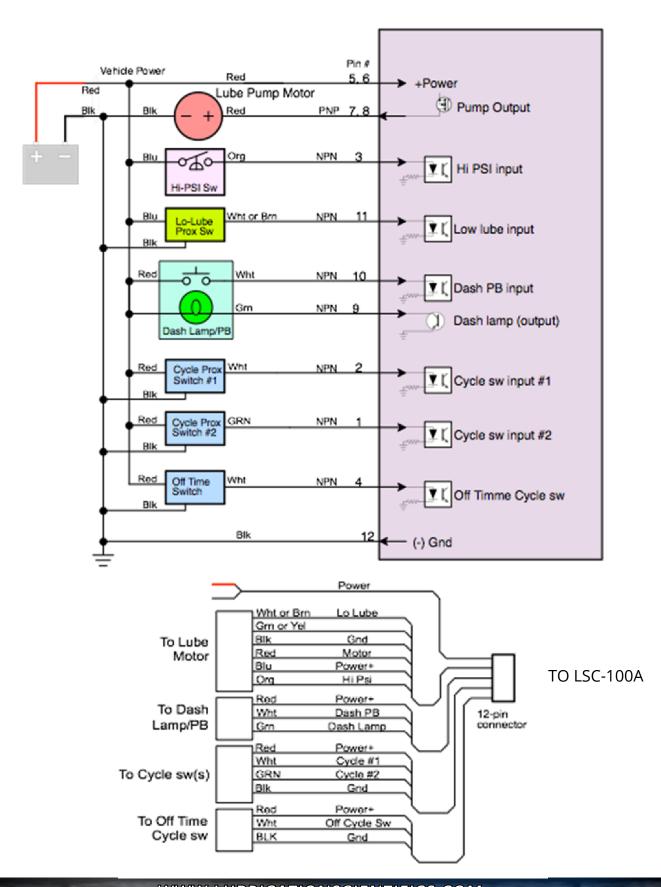
t3 (Menu #4) = Air valve on-time before the pump starts (Lube Low & Med = on)

t4 (Menu #5) = Air valve on-time after the pump stops (Lube Low = on)

User pass code = 181 used to only edit menu # 2 - 18

Master pass code = **1322**

LSC-100A WIRING DIAGRAM

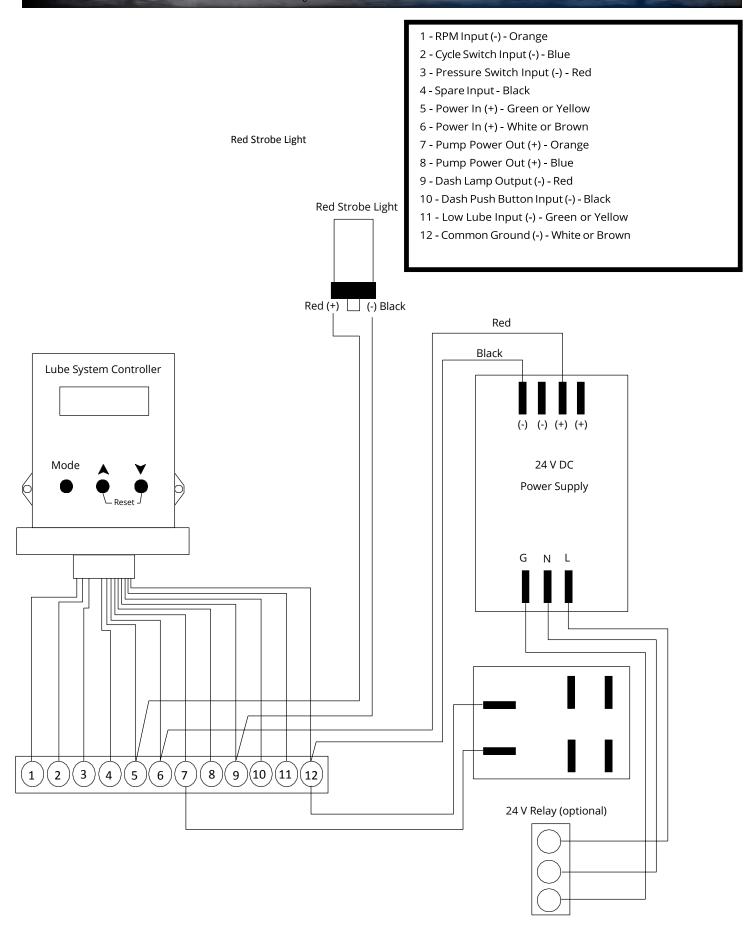


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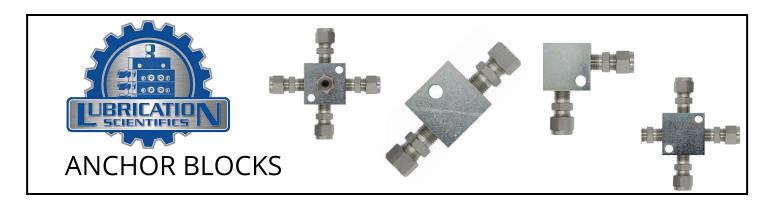
LSC-100A WIRING DIAGRAM



24 VDC—30 Amp Relay
Max Switching Voltage
250 DC Conforming to IEC
250 VAC conforming to IEC



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BENEFITS & FEATURES PRODUCT DESCRIPTION ANCHOR BLOCKS ARE LUBRICATION CONNECTING DEVICES THAT CAN BE BOLTED OR WELDED TO ANY REDUCES TOTAL COST OF A LUBRICATION **MACHINE** SYSTEM INSTALLATION BY REQUIRING LESS LABOR COSTS FOR RUNNING LUBE LINES MULTIPLE BLOCK STYLES AVAILABLE 90 DEGREE, 4 WAY CROSS, 5 WAY CROSS, MOUNTING HOLES FOR SECURING TO MACHINERY AND TEE PORTS IN 1/4" AND 1/8" NPTF **AVAILABLE** DESIGNED TO KEEP LUBRICATION LINES SECURE AND IN PLACE ANCHOR BLOCK INSTALLATION GIVES ANY IDEAL FOR MOUNTING GAUGES, BLOWOUT FITTINGS, MACHINE A CLEAN, PROFESSIONAL LOOK SAFETY DEVICES, PRESSURE SWITCHES, FLEXIBLE HOSE DROPS, AND OTHER SYSTEM COMPONENTS **REQUIRING A SOLID BASE** MOUNTING HARDWARE REQUIRING A **SOLID BASE** AVAILABLE IN CARBON STEEL, 303, AND 316 STAINLESS STEEL

READY FOR IMMEDIATE SHIPMENT

MADE IN



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STANDARD PACK: 5 EACH			
PRODUCT DESCRIPTION	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL
4 WAY CROSS			
1/8 NPSF (X4)	L509189-000	L509189-303	L509189-316
9/32 MTG HOLE			
4 WAY CROSS			
1/4 NPSF (X4)	L509188-000	L509188-303	L509188-316
9/32 MTG HOLE			
5 WAY CROSS			
1/4 NPSF (X4)			
1/8 NPSF (X1)	L509190-000	L509190-303	L509190-316
9/32 MTG HOLE			
2 WAY STRAIGHT			
1/8 NPSF (X2)	L509180-000	L509180-303	L509180-316
9/32 MTG HOLE			
2 WAY STRAIGHT			
1/4 NPSF (X2)	L509185-000	L509185-303	L509185-316
9/32 MTG HOLE			
90 DEGREE ELBOW			
1/8 NPSF (X2)	L509170-000	L509170-303	L509170-316
9/32 MTG HOLE			
90 DEGREE ELBOW			
1/4 NPSF (X2)	L509175-000	L509175-303	L509175-316
9/32 MTG HOLE			







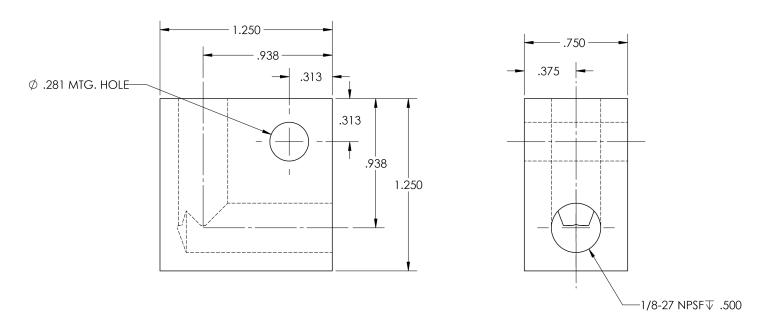


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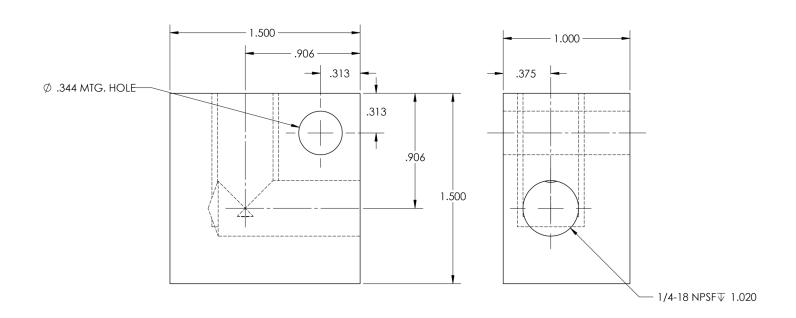
DIMENSIONS & MOUNTING INFORMATION

DIMENSIONS ARE IN INCHES

1/8" 90° ELBOW DIMENSIONS

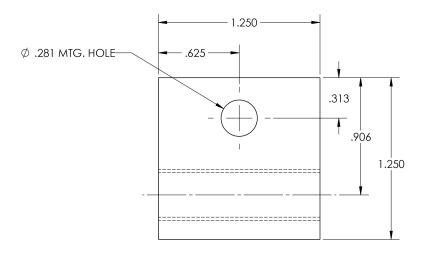


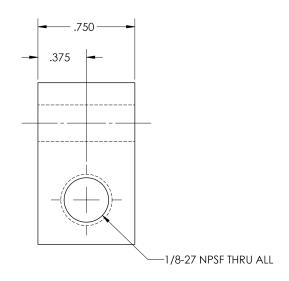
1/4" 90° ELBOW DIMENSIONS



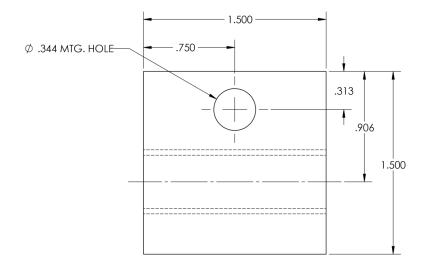
BULLETIN: LSM008 RELEASE DATE: 02/07/2019 3

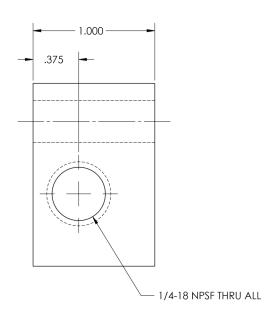
1/8" 2 WAY STRAIGHT DIMENSIONS





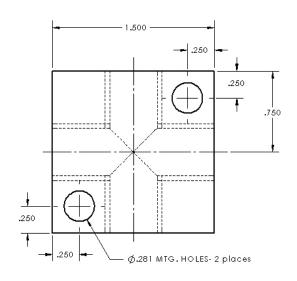
1/4" 2 WAY STRAIGHT DIMENSIONS

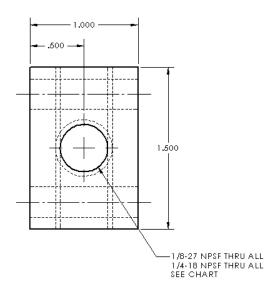




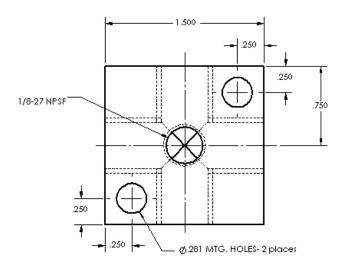
BULLETIN: LSM008 RELEASE DATE: 02/07/2019

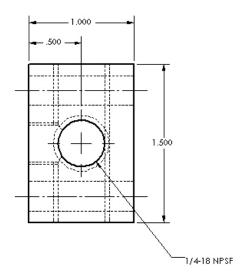
4 WAY STRAIGHT DIMENSIONS





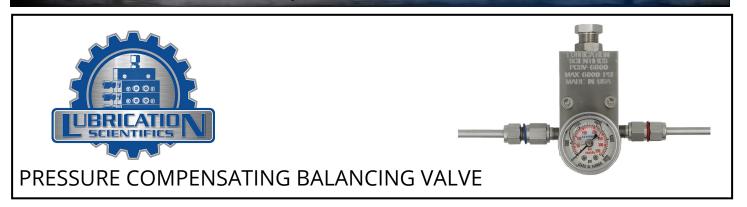
5 WAY STRAIGHT DIMENSIONS





BULLETIN: LSM008 RELEASE DATE: 02/07/2019

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS



PRODUCT DESCRIPTION DESIGNED TO ASSURE PRECISE AND ACCURATE DIVIDER EXTENDS SERVICE LIFE OF DIVIDER VALVES IN VALVE LUBRICANT OUTPUT HIGH DIFFERENTIAL PRESSURE APPLICATIONS FOR APPLICATIONS WITH HIGH DIFFERENTIAL INJECTION EASILY ADDED TO EXISTING SYSTEMS PRESSURES BETWEEN THE VARIOUS LUBRICATION POINTS SERVICED BY THE DIVIDER VALVE MAY BE PANEL MOUNTED OR DIRECTLY **COMPACT FOOTPRINT** MOUNTED INTO A SECONDARY DIVIDER VALVE ADJUSTABLE RANGE 1500-6000 PSI MAY BE MOUNTED IN ANY ORIENTATION FACTORY SET AT 3000 PSI FIELD ADJUSTABLE WITHOUT CHANGING **INLET AND OUTLET 1/8 NPSF SPRINGS** FOR EASE OF ADJUSTMENT, EACH PCBV HAS A 1/8 NPSF **GAUGE PORT ON FRONT FACE** REDUCE ONSITE INVENTORY—ONE VALVE

BENEFITS & FEATURES

COVERS ALL APPLICATIONS

FIELD REBUILD KIT AVAILABLE

NOT AFFECTED BY DOWN STREAM PRESSURES

READY FOR IMMEDIATE SHIPMENT

ADJUSTING MECHANISM INCLUDES A LOCK NUT FOR SECURING PRESSURE SETTING

ALL STAINLESS STEEL CONSTRUCTION

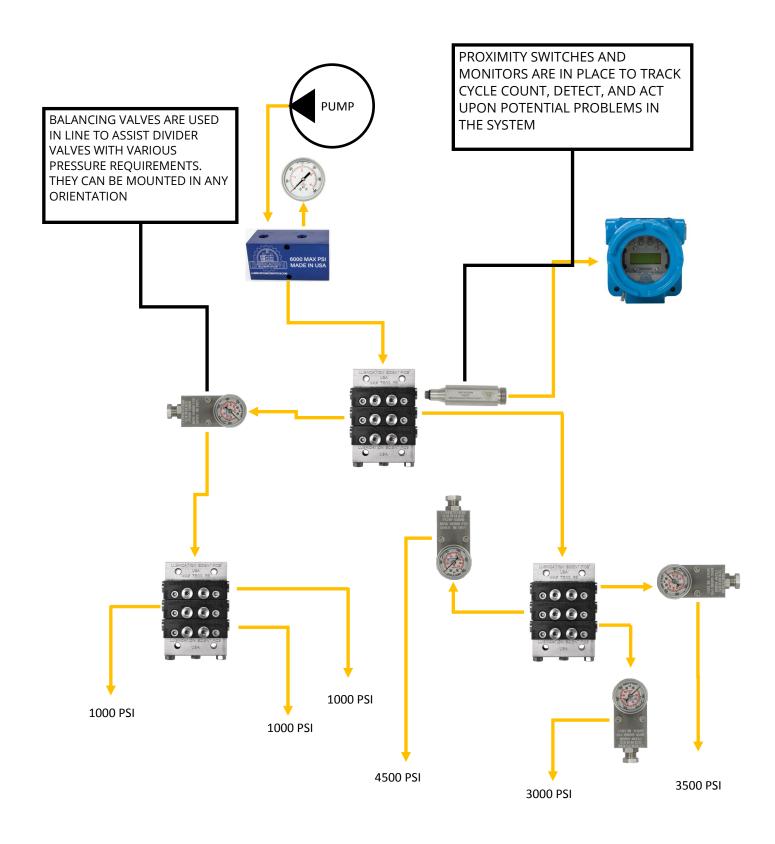
SHIPPED WITH STAINLESS STEEL MOUNTING BOLTS

MADE IN



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FUNCTION ILLUSTRATION & SPECIFICATIONS



STANDARD PACK: 1 EACH					
PART DESCRIPTION	PART NUMBER				
PRESSURE COMPENSATOR BALANCING VALVE FACTORY PRESET AT 3000 PSI	PCBV-6000				
FIELD VALVE REBUILD KIT	PCBV-MRK				
PRESSURE GAUGE, 0-6000 PSI	LCB-15-6K-2				
1/8 "X 1/4" NPTF DIRECT MOUNT HEX NIPPLE ADAPTER	PCBV-DMADP				

DIRECT MOUNT WITH HEX NIPPLE ADAPTER

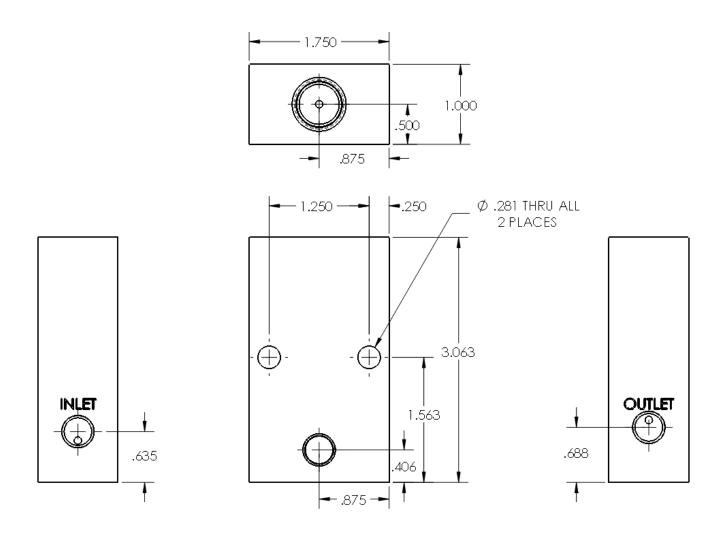


TYPICAL PANEL MOUNT EXAMPLE



DIMENSIONS & MOUNTING INFORMATION

DIMENSIONS ARE IN INCHES



SPECIFICATIONS

MATERIAL: 303 STAINLESS STEEL

ADJUSTABLE PRESSURE RANGE: 1500 PSI—6000 PSI

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ADJUSTMENT INSTRUCTIONS

TOOLS NEEDED: CRESCENT WRENCH OR THREE QUARTER INCH WRENCH

NOTE: FACTORY PRESET AT 3000 PSI

MAXIMUM PRESSURE: 6000 PSI MINIMUM PRESSURE: 1500 PSI

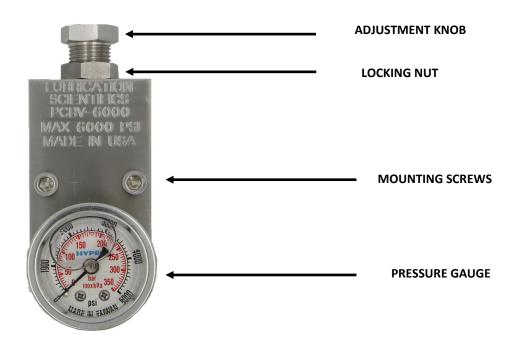
ADJUSTMENT: 1 QUARTER TURN = 250 PSI ± 50 PSI

ADJUSTMENTS MAY BE MADE WHILE UNDER PRESSURE

TO INCREASE PRESSURE, LOOSEN LOCK NUT, TURN ADJUSTMENT KNOB CLOCKWISE UNTIL DESIRED PRESSURE IS REACHED. USE LOCK NUT TO SECURE PRESSURE.

TO DECREASE PRESSURE, LOOSEN LOCK NUT, TURN ADJUSTMENT KNOB COUNTER CLOCKWISE UNTIL DESIRED PRESSURE IS REACHED. USE LOCK NUT TO SECURE PRESSURE.

ADJUSTING UNDER PRESSURE, LOOSEN LOCK NUT, TURN ADJUSTMENT KNOB A QUARTER TURN AT A TIME BETWEEN PUMP CYCLES; MONITORING PEAK PRESSURES USING THE GAUGE ON THE BALANCING VALVE. THE PEAK PRESSURE IS THE SET PRESSURE. ADJUST KNOB UNTIL DESIRED PRESSURE IS REACHED. USE LOCK NUT TO SECURE PRESSURE.

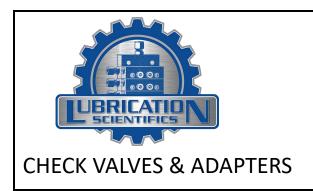


LUBRICATION SCIENTIFICS, LLC

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



OUTLET CHECKS—TERMINATING CHECKS—DOUBLE & SINGLE BALL





PRODUCT DESCRIPTION

CHECK VALVES CONSTRAIN LUBRICATION FLOW TO ONE DIRECTION

INLET AND OUTLET CHECK VALVES ARE INTEGRATED INTO THE SYSTEM TO ENSURE PROPER LUBRICATION SYSTEM OPERATION.
WHEN USED IN TANDEM, OUTLET & INLET CHECK VALVES PREVENT SYSTEM BACK PRESSURE FROM STALLING/DAMAGING VALVE COMPONENTS WHILE KEEPING OIL LINES FULL

OUTLET CHECK VALVES ARE AVAILABLE IN SINGLE BALL,
CONVENTIONAL DESIGN (REQUIRES ADDITIONAL TUBE FITTING)
AND SINGLE BALL WITH INTEGRAL FITTING (NO ADDITIONAL TUBE
FITTING REQUIRED)

INLET CHECK VALVES (TERMINATING INJECTION CHECK) ARE AVAILABLE IN SINGLE BALL AND DOUBLE BALL HIGH OUTPUT, CONVENTIONAL DESIGN (REQUIRES ADDITIONAL TUBE FITTING) AND DOUBLE BALL WITH INTEGRAL FITTING (NO ADDITIONAL TUBE FITTING REQUIRED)

CONNECTION ADAPTERS MAKE THIS PRODUCT LINE VERSATILE AND REDUCES INVENTORY COSTS

BENEFITS & FEATURES

COIN SEATED CHECK VALVES FOR SUPERIOR SEALING

ALL SPRINGS & CHECK BALLS ARE
CORROSION RESISTANT, 316 STAINLESS
STEEL

VALVES AVAILABLE IN 303 AND 316
STAINLESS STEEL

SINGLE AND DOUBLE BALL CHECK VALVES

AVAILABLE

NPTF, BSPP, METRIC, O-RING SEAL, AND TUBE FITTING CONNECTION OPTIONS

MILITIPLE OPENING PRESSURES AVAILARLE

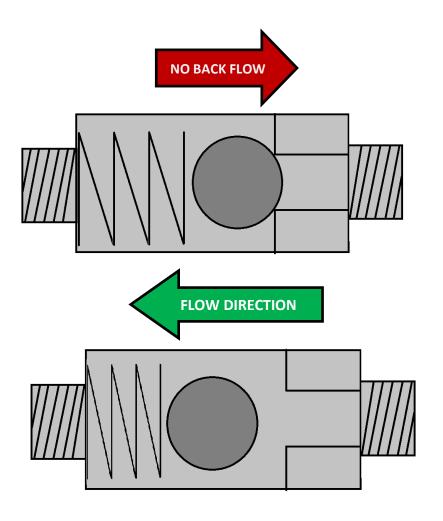
READY FOR IMMEDIATE SHIPMENT

MADE IN



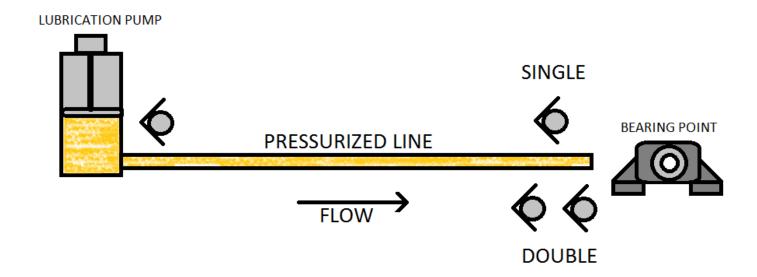
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FUNCTION ILLUSTRATION & SPECIFICATIONS



CHECK VALVE FUNCTION ILLUSTRATION

The single and double ball check valves are in place to constrain the lubrication to one direction while ensuring lube lines stay full and valves function properly. During a lube event, a pump is operating, injecting pressurized lubricant into the system. Without check valves in place, the lube lines would not stay pressurized. Every time the pump cycles, it will inject a specific amount of pressurized lubricant through a check valve by unseating and passing through a steel ball. Once the pressure backs off and the pump resets, the pressure will let off, reengaging a spring which resets the ball and closes the valve. This allows the line to remain pressurized. The double ball option is available and offers a safe guard from any bypass if a ball fails to seat properly. All ball bearings are coined to help eliminate potential backflow due to improper seating.



BULLETIN: LSM011 LAST REVISED: 09/27/2019

FUNCTION ILLUSTRATION & SPECIFICATIONS

DOUBLE BALL CHECK VALVE W/ ADAPTER

Double ball (terminating injection) check valves are in place to ensure lubrication travels in one direction and the lube lines stay filled with lubrication up to the injector.

During this lube event, a compressor is operating; injecting pressurized lubricant into the system. Without check valves in place, the injection system would drain out and allow pressurized gas through the line every time the compressor piston cycles creating major lubrication problems. With the check valve in place, the adapter with a cavity of incompressible lubrication in the adapter track, can inject a specific amount of pressurized lubricant to the piston and disallow gas to be forced back through the lubrication line.

place, the ation in the way gas to be

GAS UNABLE TO FLOW INTO THE LUBE LINE DUE TO THE PRESENCE OF INCOMPRESSIBLE FLUID AND CHECK VALVES

FLOW DIRECTION

FLOW DIRECTION

DOUBLE BALL CHECK VALVE WITH HIGH OUTPUT ADAPTER INSTALLED

BULLETIN: LSM011 LAST REVISED: 09/27/2019

CHECK VALVES—OCV SERIES

OUTLET TYPE WITH SINGLE BALL

STANDARD PACK: 5 EACH						
CHECK V	ALVE DESCRIP	TION		PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS	
1/8" NPTF (M)	1/4" TUBE	35	OCV-303-125-NPTF	OCV-316-125-NPTF	INTEGRAL TUBE FITTING	
1/8" ORS (M)	1/4" TUBE	35	OCV-303-125-ORS	OCV-316-125-ORS	INTEGRAL TUBE FITTING	
1/8" BSPP (M)	6MM TUBE	35	OCV-303-125-BSPP	OCV-316-125-BSPP	INTEGRAL TUBE FITTING	
M10 ISO (M)	6MM TUBE	35	OCV-303-125-ISO	OCV-316-125-ISO	INTEGRAL TUBE FITTING	
7/16"-20 SAE (M)	1/4" TUBE	35	OCV-303-125-SAE	OCV-316-125-SAE	INTEGRAL TUBE FITTING	





CHECK VALVES—OCV SERIES

OUTLET TYPE WITH SINGLE BALL CHECK VALVES

STANDARD PACK: 5 EACH					
CHECK	VALVE DESCRIF	NOIT		PART NUMBER	
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/8" NPSF (M)	1/8" NPTF (F)	35	OCV-303-125R-35	OCV-316-125R-35	TUBE FITTING
1/8" NPSF (M)	1/8" NPTF (F)	60	OCV-303-125R-60	OCV-316-125R-60	TUBE FITTING
1/8" NPSF (M)	1/8" NPTF (F)	250	OCV-303-125R-250	OCV-316-125R-250	TUBE FITTING
1/4''NPTF (M)	1/4" NPSF (F)	35	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING



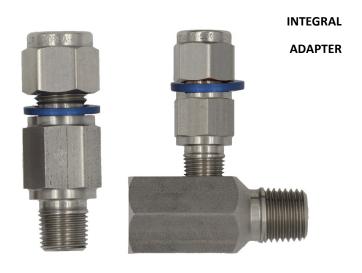


CHECK VALVES—TCV SERIES

TERMINATING (INJECTION) DOUBLE BALL CHECK VALVES

STANDARD PACK: 5 EACH					
CHECK	VALVE DESCRII	PTION	PART NUMBER		
INLET SIZE OUTLET SIZE BALL OPEN PSI		303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS	
1/4" TUBE	1/8" NPTF (M)	150	TCV-303-125-NPTF	TCV-316-125-NPTF	INTEGRAL TUBE FITTING
6MM TUBE	1/8" BSPP (M)	150	TCV-303-125-BSPP	TCV-316-125-BSPP	INTEGRAL TUBE FITTING
6MM TUBE	M10 (M)	150	TCV-303-125-ISO	TCV-316-125-ISO	INTEGRAL TUBE FITTING
1/4" TUBE	7/16"-20 SAE	150	TCV-303-125-SAE	TCV-316-125-SAE	INTEGRAL TUBE FITTING
1/4" NPSF (F)**	1/4" NPSF (F)	150	TCV-303-250-DB-FF	TCV-316-250-DB-FF	INLET & OUTLET
1/4" NPSF (F)**	1/8" NPTF (M)	150	TCV-303-250-DB-FM2	TCV-316-250-DB-FM2	INLET
1/4" NPSF (F)**	1/4" NPTF (M)	150	TCV-303-250-DB-FM4	TCV-316-250-DB-FM4	INLET

** HIGH OUTPUT







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BULLETIN: LSM011 LAST REVISED: 09/27/2019

CHECK VALVES—TCV SERIES

TERMINATING (INJECTION) SINGLE BALL CHECK VALVES

STANDARD PACK: 5 EACH						
CHECK	(VALVE DESCRIP	TION		PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS	
1/8" NPSF (F)	1/8" NPTF (M)	35	TCV-303-125-35	TCV-316-125-35	TUBE FITTING	
1/8" NPSF (F)	1/8" NPTF (M)	60	TCV-303-125-60	TCV-316-125-60	TUBE FITTING	
1/8" NPSF (F)	1/8" NPTF (M)	250	TCV-303-125-250	TCV-316-125-250	TUBE FITTING	
1/4"NPTF (F)	1/4" NPSF (M)	35	TCV-303-250-35	TCV-316-250-35	TUBE FITTING	





CHECK VALVE ADAPTERS, TERMINATING (INJECTION)

ADAPTS CHECK VALVES—FOR USE IN EITHER 1/8" NPTF OR 1/4" NPTF INJECTION PORTS

FOR HIGH OUTPUT: INSTALL SELECTED ADAPTER INTO OUTPUT END OF CHECK VALVE

STANDARD PACK: 5 EACH						
CHE	CK VALVE DESCR	PART NUMBER				
INLET SIZE	OUTLET SIZE	USE WITH	303 STAINLESS	316 STAINLESS		
1/4" NPSF (F)	1/8" NPTF (M)	HIGH OUTPUT DOUBLE BALL CHECK	DBFFADP-2-303	DBFFADP-2-316		
1/4" NPSF (F)	1/4" NPTF (M)	HIGH OUTPUT DOUBLE BALL CHECK	DBFFADP-4-303	DBFFADP-4-316		
1/8" NPSF (F)	1/8" NPTF (M)	1/8" NPTF TERMINATING CHECK	TCVADP-2-303	TCVADP-2-316		
1/8" NPSF (F)	1/4" NPTF (M)	1/8" NPTF TERMINATING CHECK	TCVADP-4-303	TCVADP-4-316		

HIGH OUTPUT ADAPTERS



INTEGRAL ADAPTERS



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BULLETIN: LSM011 LAST REVISED: 09/27/2019

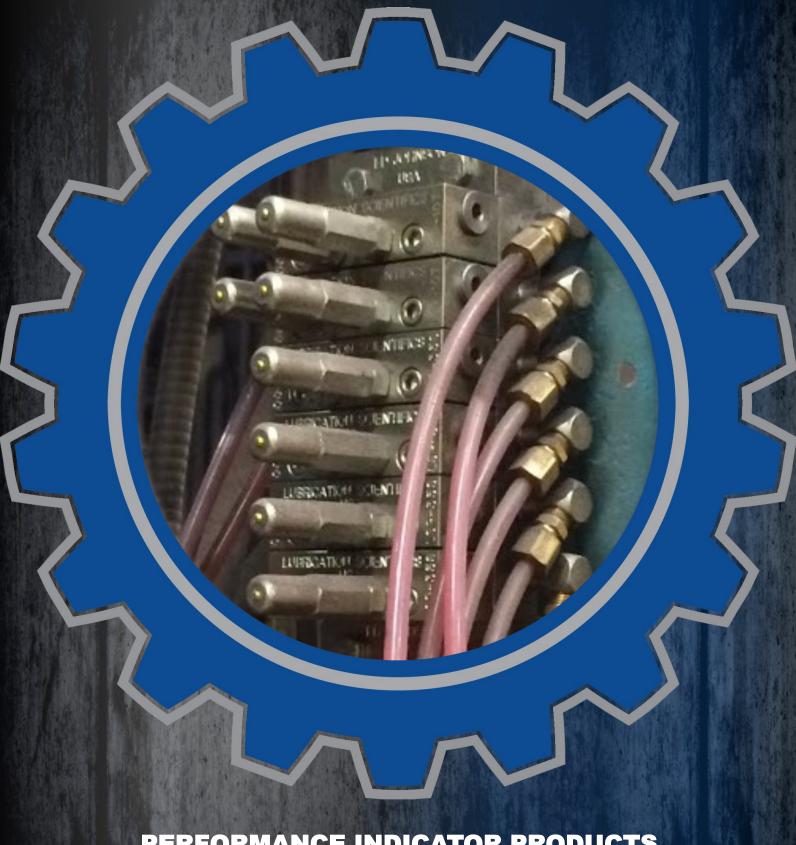
TERMINATING ORIFICE FITTINGS

STANDARD PACK: 5 EACH							
	FITTING DESCRIPTION						
INLET SIZE	OUTLET SIZE	ORIFICE SIZE (INCHES)	303 STAINLESS				
1/8' NPSF (F)	1/8" NPTF (M)	.011	TO-303-125-011				
1/8" NPSF (F)	1/8" NPTF (M)	.030	TO-303-125-013				
1/8" NPSF (F)	1/8" NPTF (M)	.045	TO-303-125-015				
1/8" NPSF (F)	1/8' NPTF (M)	.0177	TO-303-125-017				
1/8' NPSF (F)	1/8" NPTF (M)	.0197	TO-303-125-019				
1/8" NPSF (F)	1/8" NPTF (M)	.0210	TO-303-125-021				
1/8" NPSF (F)	1/8" NPTF (M)	.0236	TO-303-125-023				
1/8" NPSF (F)	1/8' NPTF (M)	.0250	TO-303-125-025				



LUBRICATION SCIENTIFICS, LLC

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



PERFORMANCE INDICATOR PRODUCTS

RESET INDICATORS—BLOWOUT FITTINGS—ATMOSPHERIC RESETS







AUTOMATIC RELIEF RESET INDICATOR, MANUAL RESET INDICATOR, BLOWOUT FITTINGS & DISKS

PRODUCT DESCRIPTION

DESIGNED FOR HIGH PRESSURE HYDRAULIC AND LUBRICATION APPLICATIONS

INSTALL IN ALTERNATE OUTLET PORTS OF SERIES PROGRESSIVE DIVIDER VALVES

BLOWOUT FITTINGS & ATMOSPHERIC RESETS ALLOW FOR VALVE FUNCTION DURING LUBE LINE BLOCKAGE

ACCURATELY DETECT LOCATIONS OF VALVE FAILURES, HIGH PRESSURE CONDITIONS, AND LUBE LINE BLOCKAGES

MANUAL RESET INDICATOR WITH MEMORY ELIMINATES THE GUESS WORK OF LOCATING A HIGH PRESSURE VALVE OR LUBE LINE AREA

CAN EASILY BE INTEGRATED INTO EXISTING SYSTEMS

BENEFITS & FEATURES

THE OPTION OF AUTOMATIC OR MANUAL RESETTING INDICATORS

ENABLES FAST TROUBLESHOOTING OF SYSTEM
BLOCKAGES OR HIGH PRESSURE SPIKES

OFFERS THE FLEXIBILITY TO EITHER SHUT DOWN A LUBE SYSTEM OR CONTINUE OPERATION DURING A VALVE BLOCKAGE OR HIGH PRESSURE CONDITION

303 AND 316 STAINLESS STEEL AVAILABLE FOR ALL INDICATORS—CARBON STEEL ALSO AVAILABLE FOR MANUAL RESET INDICATORS

READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTION ILLUSTRATION

Manual Reset Memory Indicator Function

Illustration A: Excess pressure builds in lube point outlet due to a blockage and begins to overcome an engineered pressure indicator spring pushing the indicator pin outward.

Illustration B: The indicator pin remains engaged until manually reset showing pressure, at some point, had built up. Pin is manually reset once the location of the high pressure is noted.

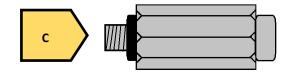
MANUAL RESET INDICATOR





ATMOSPHERIC RESET





Atmospheric Reset Illustration

Illustration A: A blockage in the lube line creates a high pressure situation in a valve.

Illustration B: In order to supply lubricant to the non blocked lube points, pressure must be relieved from the blocked line. The excess pressure, created by the blockage, overcomes an engineered pressure indicator spring pushing the valve open allowing the pressure to vent. In turn, the lube system is able to function.

Illustration C: Once the pressure is reduced, the indicator spring will close the vent allowing for normal valve operation. If the line is still blocked, the process will repeat.

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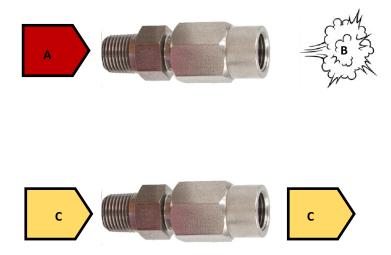
FUNCTION ILLUSTRATION

Blowout Indicator Illustration

Illustration A: A blockage in the lube line creates excess pressure in the valve.

Illustration B: The high pressure from the lube line blockage causes the disk to rupture. The rupture allows the pressure to be relieved from that location.

Illustration C: Once the disk is ruptured, the lube will spill out from the rupture point indicating a location of a high pressure. Once the blockage is noted and cleared, the disk will need to be replaced before normal lube operation may resume.



PERFORMANCE RESET INDICATORS W/ MEMORY

STANDARD PACK: 5 EA	СН	1/8 NPSF O-RING CONNECTION		
ITEM DESCRIPTION	CARBON STEEL	303 STAINLESS	316 STAINLESS	
1,000 PSI	N/A	303-P1000	316-P1000	
1,500 PSI	N/A	303-P1500	316-P1500	
2,000 PSI	N/A	303-P2000	316-P2000	
2,500 PSI	N/A	303-P2500	316-P2500	
3,000 PSI	N/A	303-P3000	316-P3000	
3,500 PSI	N/A	303-P3500	316-P3500	
4,000 PSI	N/A	303-P4000	316-P4000	
5,000 PSI	N/A	303-P5000	316-P5000	



NOTE: Performance indicators are compatible with Trabon Style Divider Valves only

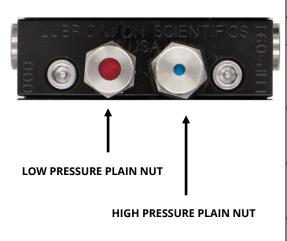
FOR LINCOLN STYLE VALVES USE ADAPTER WITH THE PERFORMANCE RESET INDICATORS ABOVE.

DESCRIPTION	303 STAINLESS STEEL	316 STAINLESS STEEL
LINCOLN STYLE INDICATOR ADAPTER	303-PI-ADP-L	316-PI-ADP-L



TRABON IS A REGISTERED TRADEMARK OF GRACO, INC.

LINCOLN IS A REGISTERED TRADEMARK OF LINCOLN INDUSTRIAL



STANDARD PACK: 5 EACH	1/8" O-RING SEAL OR 1/8" NPTF THREADS		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303-NPTF	BOF-LP-316-NPTF	
PLAIN NUT W/ 1/4" APERTURE	BOF-LP-303-ORS	BOF-LP-316-ORS	
LOW PRESSURE 1/8" NPSF	BOF-LP-303R-NPTF	BOF-LP-316R-NPTF	
SPUD NUT W/ 1/4" APERTURE	BOF-LP-303R-ORS	BOF-LP-316R-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303-NPTF	BOF-HP-316-NPTF	
PLAIN NUT W/ 1/8" APERTURE	BOF-HP-303-ORS	BOF-HP-316-ORS	
HIGH PRESSURE 1/8" NPSF	BOF-HP-303R-NPTF	BOF-HP-316R-NPTF	
SPUD NUT W/ 1/8" APERTURE	BOF-HP-303R-ORS	BOF-HP-316R-ORS	

BLOWOUT FITTINGS

NOTE: RUPTURE DISK NOT INCLUDED—SEE PAGE 6

BLOWOUT FITTINGS FOR LINCOLN MC2 DIVIDER VALVES

STANDARD PACK: 5 EACH	1/8" O-RING SEAL	
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS
LOW PRESSURE 1/8" NPSF PLAIN NUT W/ 1/4" APERTURE	BOF-LP-303-ORS-L	BOF-LP-316-ORS-L
LOW PRESSURE 1/8" NPSF SPUD NUT W/ 1/4" APERTURE	BOF-LP-303R-ORS-L	BOF-LP-316R-ORS-L
HIGH PRESSURE 1/8" NPSF PLAIN NUT W/ 1/8" APERTURE	BOF-HP-303-ORS-L	BOF-HP-316-ORS-L
HIGH PRESSURE 1/8" NPSF SPUD NUT W/ 1/8" APERTURE	BOF-HP-303R-ORS-L	BOF-HP-316R-ORS-L

NOTE: RUPTURE DISK NOT INCLUDED—SEE PAGE 6

BLOWOUT FITTING WITH SPUD NUT



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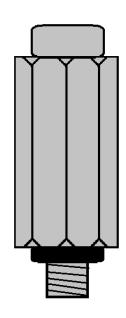


STANDARD PACK: 25 EACH						
DISC COLOR	DISK DIAMETER	LOW PRESSURE BURST (PSI) (1/4" APERTURE FITTING)	HIGH PRESSURE BURST (PSI) (1/8" APERTURE FITTING)	PART NUMBER		
BLACK	3/8"	900	NOT OBSERVED	A509-276-000		
GREEN	3/8"	1,175	NOT OBSERVED	A509-277-000		
RED	3/8"	1,750	4,600	A509-279-000		
ORANGE	3/8"	2,050	5,500	A509-280-000		
ALUMINUM	3/8"	2,350	N/R	A509-281-000		
PINK	3/8"	2,650	6,400	A509-282-000		
BLUE	3/8"	2,950	7,300	A509-283-000		
PURPLE	3/8"	3,250	8,200	A509-284-000		
YELLOW	11/16"	1,450	3,700	A509-292-000		
RED	11/16"	1,750	NOT OBSERVED	A509-293-000		
ORANGE	11/16"	2,050	NOT OBSERVED	A509-294-000		
SILVER	11/16"	2,350	NOT OBSERVED	A509-295-000		
PINK	11/16"	2,650	NOT OBSERVED	A509-296-000		
BLUE	11/16"	2,950	NOT OBSERVED	A509-297-000		
PURPLE	11/16"	3,250	NOT OBSERVED	A509-298-000		

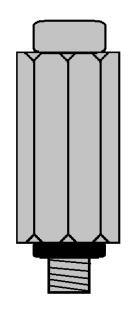
NOTE: ALL DISKS HAVE A RUPTURE TOLERANCE OF +500 PSI

ATMOSPHERIC RESET INDICATOR TRABON STYLE

STANDARD PACK: 5 EACH	1/8" O-RING SEAL OR 1/8" NPTF THREADS		
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS	
1,000 PSI	L5081000-NPTF L5081000-ORS	L5081000-316-NPTF L5081000-316-ORS	
1,500 PSI	L5081500-NPTF L5081500-ORS	L5081500-316-NPTF L5081500-316-ORS	
2,000 PSI	L5082000-NPTF L5082000-ORS	L5082000-316-NPTF L5082000-316-ORS	
2,500 PSI	L5082500-NPTF L5082500-ORS	L5082500-316-NPTF L5082500-316-ORS	
3,000 PSI	L5083000-NPTF L5083000-ORS	L5083000-316-NPTF L5083000-316-ORS	



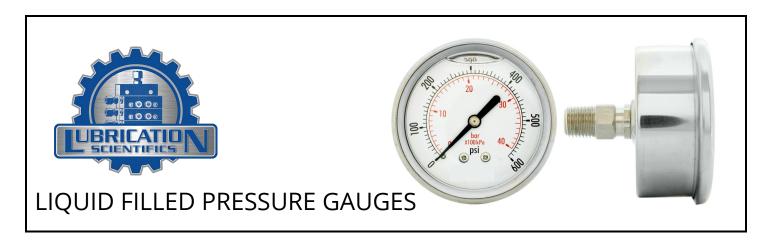
ATMOSPHERIC RESET INDICATOR FOR LINCOLN MC2 DIVIDER VALVES



STANDARD PACK: 5 EACH	1/8" O-RING SEAL	
ITEM DESCRIPTION	303 STAINLESS	316 STAINLESS
1,000 PSI	L5081000-ORS-L	L5081000-316-ORS-L
1,500 PSI	L5081500-ORS-L	L5081500-316-ORS-L
2,000 PSI	L5082000-ORS-L	L5082000-316-ORS-L
2,500 PSI	L5082500-ORS-L	L5082500-316-ORS-L
3,000 PSI	L5083000-ORS-L	L5083000-316-ORS-L

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BENEFITS & FEATURES PRODUCT DESCRIPTION STAINLESS STEEL CONSTRUCTION ABLE TO ACCURATELY MEASURE PRESSURE **ACRYLIC LENS** IN A LUBRICATION SYSTEM 1/4 & 1/8 NPT GAUGES AVAILABLE USES INCLUDE PRESSURE MONITORING, DETERMINING CLOGGED FILTERS, & ALL GAUGES ARE 3-2-3 % ACCURACY VISUALIZING PRESSURE DIFFERENTIALS DIALS ARE STANDARD PSI/BAR WITH LEGEND 100 X 2-3 % PRESSURE ACCURACY kPa GAUGE SIZES AVAILABLE IN 1.5", 2.0", & 2.5" GAUGES AVAILABLE IN CENTER BACK DIAMETER MOUNT OR LOWER BACK MOUNT MAX PRESSURE RATINGS AVAILABLE FROM 300—6000 IMPACT/SCRATCH RESISTANT GAUGE LENS

READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTION ILLUSTRATION & SPECIFICATIONS

GAUGE LEGEND COMMON PRESSURE SCALES

PSI POUND PER SQUARE INCH
IN. .HG. INCHES OF MERCURY
IN. H20 INCHES OF WATER COLUMN
kPa KILOPASCAL
mBar MILIBAR
Oz/sq. IN INCHES PER SQUARE INCH

ACCURACY LEGEND ASME CLASS

GRADE A +/- 2-1-2% OF SPAN
GRADE B +/- 3-2-3% OF SPAN
GRADE 1A +/- 1% OF SPAN
GRADE 2A +/- 0.05% OF SPAN
GRADE 3A +/- 0.25% OF SPAN

DEFINING THE +/- 3-2-3% OF SPAN ACCURACY

- THE 3-2-3% ACCURACY IS RELATIVE TO WHERE THE NEEDLE IS POSITIONED ON THE SPAN OF THE GAUGE.
- THE FIRST "TWO" IN THE 2-3-2% REFERS
 TO THE ACCURACY IN THE FIRST 1/4
 SECTION OF THE GAUGE. THE FIRST 1/4
 SECTION IS ACCURATE +/- 3%. THE
 NEXT 1/2 OF THE GAUGE IS +/- 2%
 ACCURATE. AND FINALLY, THE LAST 1/4
 IS BACK TO 3% ACCURACY

THIS IS HOW THE +/- 3-2-3% ACCURACY EXPRESSION IS INTERPRETED.

DEFINING BACK CENTER MOUNT AND BOTTOM MOUNT



BOTTOM MOUNT

BACK CENTER MOUNT

BOTTOM MOUNT—ARE THE MORE COMMON MOUNTING STYLE FOR PRESSURE GAUGES. THE PIPE THREAD STEMS OUT FROM THE BOTTOM OF THE GAUGE.

BACK MOUNT— THE PIPE THREAD STEMS FROM THE REAR OF THE GAUGE

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BULLETIN: LSM028 RELEASE DATE: 10/02/2018

PRESSURE GAUGE PART NUMBER ORDERING INFORMATION

ALL PRESSURE GAUGES ARE STAINLESS STEEL CONSTRUCTION, LIQUID FILLED

STANDARD PACK: 1 EACH				
MOUNT LOCATION	PSI	FITTING	PART NUMBER	
LOWER MOUNT	300	1/4" NPT	LLM-20-3C-4	
LOWER MOUNT	1000	1/4" NPT	LLM-25-1K-4	
LOWER MOUNT	3000	1/4" NPT	LLM-25-3K-4	
LOWER MOUNT	5000	1/4" NPT	LM-25-5K-4	
LOWER MOUNT	6000	1/4" NPT	LLM-25-6K-4	
LOWER MOUNT	10000	1/4" NPT	LLM-25-10K-4	
CENTER BACK MOUNT	6000	1/8" NPT	LCB-15-6K-2	

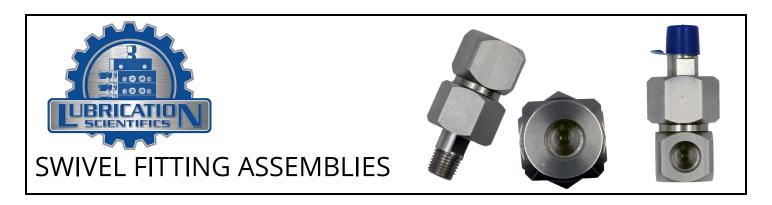




LOWER MOUNT

CENTER BACK MOUNT

BULLETIN: LSM028 RELEASE DATE: 10/02/2018



BENEFITS & FEATURES PRODUCT DESCRIPTION SUPERIOR DESIGN ELIMINATES COUNTER WEAR 303 & 316 STAINLESS STEEL CONSTRUCTION COMPACT DESIGN NO ADAPTERS REQUIRED TO CONNECT TO COMPACT, HIGH PRESSURE FITTING LUBE LINES 3500 MAX OPERATING PRESSURE FOR USE IN STRAIGHT, REVOLVING, OR OSCILLATING APPLICATIONS HIGH OPERATING PRESSURE FOR MORE **INDUSTRIAL APPLICATIONS** SWIVELS ARE AVAILABLE IN 180 DEGREE REDUCES THE CHANCE OF TWISTED, BENT, OR STRAIGHT OR 90 DEGREE ELBOW FITTINGS KINKED LUBE LINES REDUCES RIGIDITY RESTRICTION IN HOSES & THREAD SIZES AVAILABLE IN 1/4", 1/8", AND 3/8" LINES REDUCES SYSTEM DOWNTIME FROM LINE SHOCK DAMAGE, LINE TWISTING & FOR USE WITH OIL OR GREASE ENTANGLEMENT

READY FOR IMMEDIATE SHIPMENT

MADE IN



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BULLETIN: LSM009 RELEASE DATE: 10/02/2018

ORDERING INFORMATION & PART NUMBERS

SWIVEL VALVE ASSEMBLY

STANDARD PACK: 1

PRODUCT DESCRIPTION	CONNECTION TYPE	MATERIAL	PART NUMBER
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	90 DEG ELBOW	CRS	L509405-000
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	90 DEG ELBOW	303 SS	L509405-303
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	90 DEG ELBOW	316 SS	L509405-316
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	STRAIGHT	CRS	L509406-000
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	STRAIGHT	303 SS	L509406-303
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	STRAIGHT	316 SS	L509406-316



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BULLETIN: LSM009 RELEASE DATE: 10/02/2018

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



PROXIMITY SWITCHES—LIMIT SWITCHES—VISUAL CYCLE INDICATORS











VISUAL CYCLE INDICATORS, LIMIT SWITCHES, & PROXIMITY SWITCHES

PRODUCT DESCRIPTION BENEFITS & FEATURES DESIGNED FOR HIGH PRESSURE HYDRAULIC AND **LUBRICATION APPLICATIONS** MECHANICAL AND ELECTRICAL VISUAL INDICATORS FOR ANY BUDGET ALLOWS THE VISUAL OR DIGITAL MONITORING OF VALVE CYCLE PROXIMITY SWITCHES ARE MADE OF 316 STAINLESS STEEL CONSTRUCTION VISUAL INDICATORS ARE 316 STAINLESS STEEL RATED FOR HAZARDOUS CONDITIONS PRESSURE RANGES UP TO 7,500 PSI LIMIT SWITCHES OFFER CONTROL OVER YOUR LUBE WORKS WITH BOTH OIL OR GREASE SYSTEM BY DETECTING AND MANAGING LUBE **APPLICATIONS** SYSTEM FAILURES

READY FOR IMMEDIATE SHIPMENT

MADE IN



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FUNCTION ILLUSTRATION

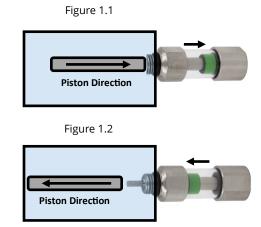
Valve Cycle Indicator Function

Cycle Indicators provide a visual means to verify proper function of a piston cycle.

Figure 1.1: During a lube event, the piston acts upon the actuator pin pushing the indicator forward, showing that the valve is functioning properly.

Figure 1.2: When the piston cycles back to its original position, the spring in the visual indicator returns the indicator bead to its previous position and awaits the next cycle.

During a lube event, you will have a visual indication if the valves are not cycling.



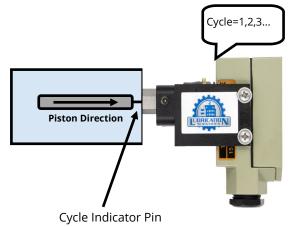
Proximity Switches

Proximity Switch is a sensor able to detect the presence of nearby objects, in this case a piston, without any physical contact. It is used to digitally count cycles or detect potential problems in a system. The illustration below shows generally how a Proximity Switch work.



Limit Switches

A limit switch is an electromechanical device that consists of an actuator mechanically linked to a set of contacts. When a cycle indicator pin comes into contact with the actuator, the device operates the contacts to make or break an electrical connection.



ORDERING INFORMATION & PART NUMBERS



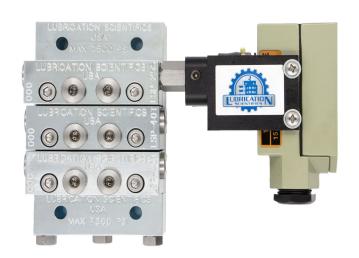


STANDARD PACK: 1 EACH	
ITEM DESCRIPTION	PART NUMBER
STAINLESS STEEL VISUAL CYCLE INDICATOR	V6L 427
Fits Trabon Style Divider Valves	VCI-437
316 STAINLESS STEEL VISUAL CYCLE INDICATOR	VCI-437-316
STAINLESS STEEL VISUAL CYCLE INDICATOR	VCI-437-1312
W/ LMX/LMXP ADAPTER	VCI-437-1312
LINCOLN STYLE VISUAL CYCLE INDICATOR	VCI 427 I
Fits Lincoln MC2 Style Divider Valves	VCI-437-L

VISUAL CYCLE INDICATORS: Fits any valve, right or left side; Twin or Single valve types.

LINCOLN STYLE VISUAL CYCLE INDICATOR





STANDARD PACK: 1 EACH	
ITEM DESCRIPTION	PART NUMBER
LIMIT SWITCH ASSEMBLY, SPDT	LSW-001
LIMIT SWITCH ASSEMBLY, DPDT	LSW-002

ELECTRICAL RATING

15 Amps @ 120V/240V/480V AC 6 Amps @ 24V DC .5 Amps @ 125V DC .25 Amps @ 250V DC

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ORDERING INFORMATION & PART NUMBERS

PROXIMITY SWITCHES

STANDARD PACK: 1 EACH ITEM DESCRIPTION	FITS VALVE	PART NUMBER	MAX PSI	HAZARD RATING
TIEW DESCRIPTION			IVIAX PSI	HAZARD KATING
	LSP/LHP	L527251		
PROXIMITY SWITCH, 3 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527251-1312	7,500 PSI	NO RATING
	LGO	L527251-1410		
	LSP/LHP	L527112		
PROXIMITY SWITCH, 4 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527112-1312	7,500 PSI	NO RATING
	LGO	L527112-1410		
	LSP/LHP	L527111		
PROXIMITY SWITCH, 5 PIN MINI-QUICK DISCONNECT	LMX/LMXP	L527111-1312	7,500 PSI	NO RATING
	LGO	L527111-1410		
	LSP/LHP	L527431		CLASS I, GROUPS A,B,C,D
PROXIMITY SWITCH, EXPLOSION PROOF, 1/2" NPT WITH LEADS	LMX/LMXP	L527431-1312	7,500 PSI	CLASS II, GROUPS E,F,G
	LGO	L527431-1410		CLASS III
				CLASS I, GROUPS A,B,C,D
PROXIMITY SWITCH LINCOLN EXPLOSION PROOF, 1/2" NPT WITH LEADS	LINCOLN	L527431-MC2	7,500 PSI	CLASS II, GROUPS E,F,G
THE PROPERTY OF THE PROPERTY O				CLASS III
PROXIMITY SWITCH W/ TRABON MAG ASSEMBLY	TRABON	L527430	7,500 PSI	NO RATING
REPLACEMENT MAGNET ASSEMBLY	TRABON	L527430-RM-T	7,500 PSI	NO RATING
REPLACEMENT MAGNET ASSEMBLY	LINCOLN	L527430-RM-L	7,500 PSI	NO RATING
REPLACEMENT MAGNET ASSEMBLY	DROPSA	L527430-RM-D	7,500 PSI	NO RATING





PROXIMITY SWITCH SPECIFICATIONS

Specification Description

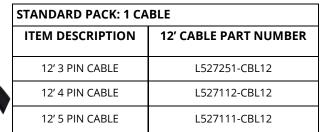
All Proximity Switches are field sensitive, dry contact, with ceramic magnets. They have a max cycle rate of 200 cycles per minute. A max pressure rating of 7,500 psi.

Electrical rating are as follows for all models:

4 Amps @ 120V AC, 2 Amps @ 240V DC, 3 Amps @ 24V DC, .5 Amps @ 125V DC

CYCLE LIFE:

150,000,000 Cycles



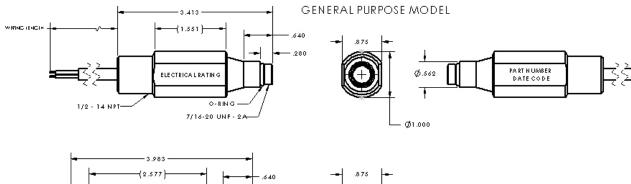


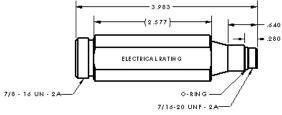
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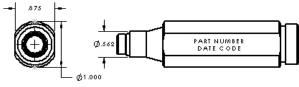
PROXIMITY SWITCH DATA SHEET

GENERAL SPECIFICATIONS			
SENSING DISTANCE	0.025 in		
DIFFERENTIAL	0.010 in		
TEMPERATURE RANGE	-4 Degrees F - 176 Degrees F		
TEIVIPERATURE RAINGE	-20 degrees C - 80 Degrees C		
CONTACT ARRANGEMENT	SPST FORM A (N/O)		
ELECTRICAL RATING	4 Amp / 120 VAC		
	2 Amp / 240 VAC		
ELECTRICAL NATING	3 Amp / 24 VDC		
	.5 Amp / 125 VDC		
MAX OPERATING FREQUENCY	3Hz		
MAX PRESSURE	7500 PSI		
ENCLOSURE MATERIAL	316L STAINLESS STEEL		
O-RING MATERIAL	VITON		
MOUNTING TORQUE	6-8 FT-LB		

MAX VIBRATION RATING: 7g, 10-55hz







	L527251, 3 PIN
PIN	PIN OUT (WIRE COLOR)
1	GROUND (GREEN)
2	COM (BLACK)
3	N/O (WHITE)

	L527112, 4 PIN
PIN	PIN OUT (WIRE COLOR)
1	N/O (BLACK)
2	COM (WHITE)
3	NOT USED (RED)
4	GND (GREEN)

	L527111, 5 PIN
PIN	PIN OUT (WIRE COLOR)
1	N/O (WHITE)
2	NOT USED (RED)
3	GND (GREEN)
4	NOT USED (ORANGE)
5	COM (BLACK)
5	COM (BLACK)

L527431			
WIRING - B, PVC CABLE			
WIRE COLOR	WIRE ASSIGNMENT		
RED	GND		
WHITE	N/O		
BLACK	СОМ		
APPROVED FOR			
CLASS I	GROUPS A, B, & D		
CLASS II	GROUPS E, F, G		
CLASS III			







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PRESSURE RELIEF VALVE WITH MEMORY

PRODUCT DESCRIPTION BENEFITS & FEATURES

DESIGNED TO REPLACE ATMOSPHERIC RUPTURE ASSEMBLIES

AUTOMATICALLY ACTIVATED WHEN
THE DIVIDER BLOCK SYSTEM
OVERPRESSURES

ONCE ACTIVATED, THE LPRVM DIVERTS OIL TO A DESIGNATED RESERVOIR

PROTECTS A TECHNICIAN FROM POSSIBLE INJURY CAUSED BY AN OIL RUPTURE

OPENS AT A PRE-DETERMINED PRESSURE TO PROTECT THE SYSTEM FROM DAMAGE

VALVE IS RESET AFTER PRESSURE IS
RELIEVED, BUT THE RESET INDICATOR
REMAINS VISIBLE UNTIL IT IS MANUALLY
RESET BY TECHNICIAN

CAN BE USED ON ANY DIVIDER SYSTEM

ELIMINATES OIL SPILLS AND UNNECESSARY WASTE

READY FOR IMMEDIATE SHIPMENT

MADE IN



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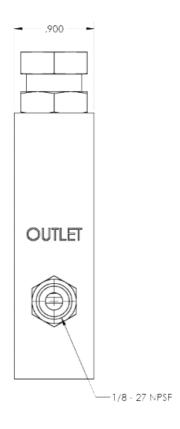
ORDERING INFORMATION & PART NUMBERS

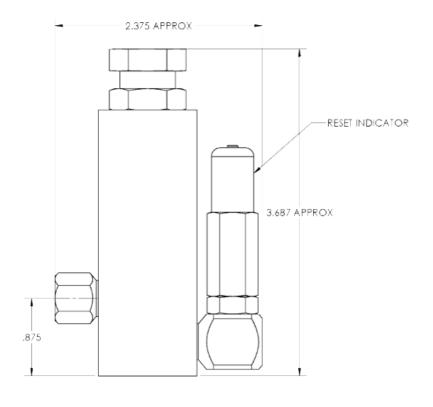


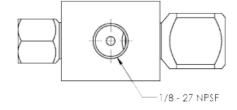




GENERAL LPRVM DIMENSIONS







ORDERING INFORMATION & PART NUMBERS



LPRVM PRESSURE RELIEF

DESCRIPTION	PSI	PART NUMBER
PRESSURE RELIEF VALVE W/ MEMORY, 1500 PSI	1500	LPRVM-303-1500
PRESSURE RELIEF VALVE W/ MEMORY, 2000 PSI	2000	LPRVM-303-2000
PRESSURE RELIEF VALVE W/ MEMORY, 2500 PSI	2500	LPRVM-303-2500
PRESSURE RELIEF VALVE W/ MEMORY, 3000 PSI	3000	LPRVM-303-3000
PRESSURE RELIEF VALVE W/ MEMORY, 3500 PSI	3500	LPRVM-303-3500
PRESSURE RELIEF VALVE W/ MEMORY, 4000 PSI	4000	LPRVM-303-4000
PRESSURE RELIEF VALVE W/ MEMORY, 5000 PSI	5000	LPRVM-303-5000
PRESSURE RELIEF VALVE, UNIVERSAL	N/A	LPRVM-303-U
PRVM REBUILD KIT	N/A	LPRVM-MRK

ADJUSTMENT INSTRUCTIONS

TOOLS NEEDED: CRESCENT WRENCH OR THREE QUARTER INCH WRENCH, DOWNSTREAM PRESSURE GAUGE

MAXIMUM PRESSURE: 5000 PSI MINIMUM PRESSURE: 1500 PSI

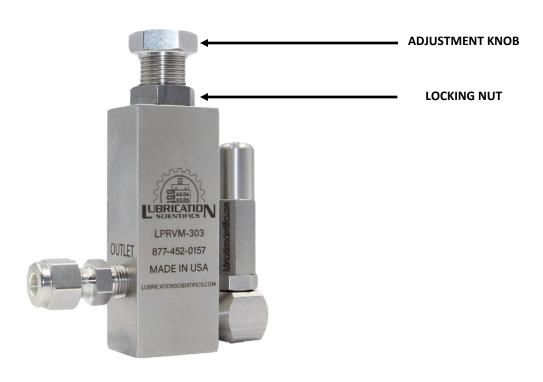
ADJUSTMENT: 1 QUARTER TURN = 250 PSI ± 50 PSI

ADJUSTMENTS MAY BE MADE WHILE UNDER PRESSURE

TO INCREASE PRESSURE, LOOSEN LOCK NUT, TURN ADJUSTMENT KNOB CLOCKWISE UNTIL DESIRED PRESSURE IS REACHED. USE LOCK NUT TO SECURE PRESSURE.

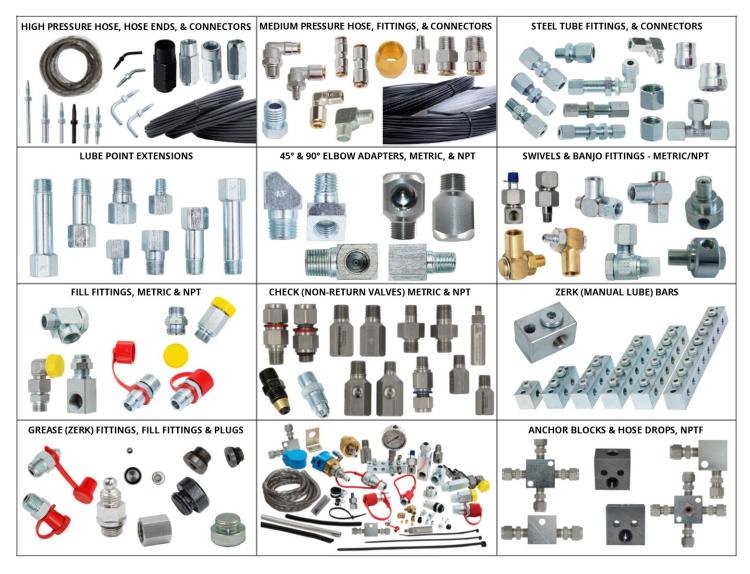
TO DECREASE PRESSURE, LOOSEN LOCK NUT, TURN ADJUSTMENT KNOB COUNTER CLOCKWISE UNTIL DESIRED PRESSURE IS REACHED. USE LOCK NUT TO SECURE PRESSURE.

ADJUSTING UNDER PRESSURE, LOOSEN LOCK NUT, TURN ADJUSTMENT KNOB A QUARTER TURN AT A TIME BETWEEN PUMP CYCLES; MONITORING PEAK PRESSURES USING A GAUGE. THE PEAK PRESSURE IS THE SET PRESSURE. ADJUST KNOB UNTIL DESIRED PRESSURE IS REACHED. USE LOCK NUT TO SECURE PRESSURE.





HOSES, FITTINGS & ACCESSORIES FOR CENTRALIZED LUBRICATION SYSTEMS



THE PRODUCTS CONTAINED HEREIN ARE MANUFACTURED BY FRITSCHE GMBH AND LUBRICATION SCIENTIFICS, LLC

LUBRICATION SCIENTIFICS, LLC - CENTRALIZED LUBRICATION SYSTEMS

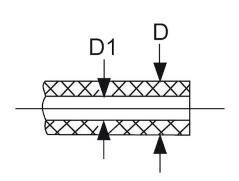
INDEX

SECTION	PAGE
HIGH PRESSURE HOSE, HOSE ENDS, & CONNECTORS	3-6
MEDIUM PRESSURE HOSE, FITTINGS, & CONNECTORS	7-10
STEEL TUBE FITTINGS, & CONNECTORS	11-14
LUBE POINT EXTENSIONS	15
45° & 90° ELBOW ADAPTERS, METRIC, & NPT	16-17
SWIVELS & BANJO FITTINGS, METRIC & NPT	18-19
FILL FITTINGS, METRIC & NPTF	20
CHECK (NON-RETURN VALVES, METRIC & NPTF)	21-23
ZERK (MANUAL LUBE) BARS	24
GREASE (ZERK) FITTINGS, FILL FITINGS & CLOSURE PLUGS	25
ANCHOR BLOCKS & HOSE DROPS, NPTF	26

HIGH PRESSURE HOSE, HOSE ENDS, & CONNECTORS

HIGH PRESSURE HOSE

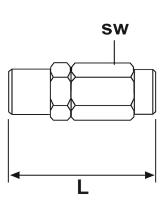
HIGH PRESSURE HOSE DESCRIPTION	PSI/BAR	D	D1	PART NUMBER
HIGH PRESSURE HOSE FILLED WITH NLGI 2 GREASE , 50 M COIL	12,183/840	8.6MM	4.0MM	LFR100-001
HIGH PRESSURE HOSE, EMPTY , 50 M COIL	12,183/840	8.6MM	4.0M	LFR100-002
HIGH-PRESSURE HOSE FILLED WITH	12,183/840	11.3MM	6.3M	LFR100-011
HIGH-PRESSURE HOSE, EMPTY, 100 M COIL	12,183/840	11.3MM	6.3M	LFR100-012
HIGH-PRESSURE HOSE FILLED WITH NLGI 2 GREASE , 100 M COIL	12,183 / 840	5/16IN	1/8IN	LFR4010-101
HIGH-PRESSURE HOSE, EMPTY, 100	12,183 / 840	5/16IN	1/8IN	LFR4010-100





HIGH PRESSURE SCREW SLEEVES

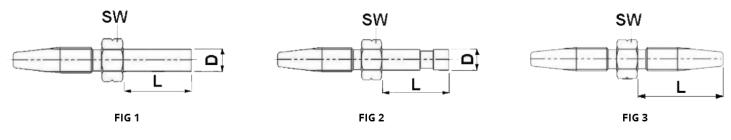
SCREW SLEEVE DESCRIPTION	FIG.	HOSE ID X OD	L	sw	PART NUMBER
STEEL THREADED HOSE SLEEVE	1	4,1 x 8,75	28MM	12MM	LFR100-050
STEEL THREADED HOSE SLEEVE	1	1/8 X 5/16	26MM	12MM	LFR100-050-1
THREADED HOSE SLEEVE, BLACK ZINC	1	4,1 x 8,75	28MM	12MM	LFR100-050-SW
SS THREADED HOSE SLEEVE	1	4,1 x 8,75	28MM	12MM	LFR100-050-VA
STEEL THREADED HOSE SLEEVE	1	6.35 X 11.3	35.8MM	17MM	LFR100-060
SS THREADED HOSE SLEEVE	1	6.35 X 11.3	35.8MM	17MM	LFR100-060-VA
SS THREADED HOSE SLEEVE	1	1/8 X 5/16	26MM	1/2IN	LFR3010-001

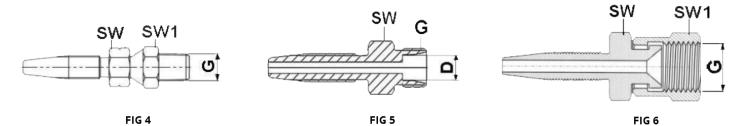




HIGH PRESSURE STRAIGHT HOSE STUDS

STRAIGHT HOSE STUD DESCRIPTION	FIG.	HOSE ID X OD	G	D	L	sw	SW 1	PART NUMBER
STEEL HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	6MM	30MM	10MM	N/A	LFR100-051
STEEL HOSE STUD STRAIGHT	4	1/8 X 5/16	1/8 NPT	1/8IN	N/A	7/16IN	N/A	LFR100-051-1
STEEL HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	8MM	30MM	10MM	N/A	LFR100-051-8
STEEL HOSE STUD STRAIGHT, PUSH LOCK	2	4,1 x 8,75	N/A	6MM	20MM	10MM	N/A	LFR100-051-NUT
SS HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	6MM	30MM	10MM	N/A	LFR100-051-VA
STEEL HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	6MM	20MM	10MM	N/A	LFR100-054
STEEL HOSE STUD STRAIGHT, PUSH LOCK	1	4,1 x 8,75	N/A	6MM	20MM	10MM	N/A	LFR100-054-NUT
STEEL HOSE STUD STRAIGHT, PUSH LOCK, BLACK	2	4,1 x 8,75	N/A	6MM	21.5MM	10MM	N/A	LFR100-054-NUT-SW
STEEL HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	6MM	24MM	10MM	N/A	LFR100-055
STEEL HOSE STUD STRAIGHT, HOSE UNION	3	4,1 x 8,75	N/A	N/A	56MM	10MM	N/A	LFR100-061
STEEL HOSE STUD STRAIGHT	1	6.35 X 11.3	N/A	6MM	20MM	12MM	N/A	LFR100-064
STEEL HOSE STUD STRAIGHT, PUSH LOCK	1	6.35 X 11.3	N/A	6MM	20MM	12MM	N/A	LFR100-064-NUT
SS HOSE STUD STRAIGHT	1	6.35 X 11.3	N/A	6MM	20MM	12MM	N/A	LFR100-064-VA
STEEL HOSE STUD STRAIGHT	1	6.35 X 11.3	N/A	8MM	20MM	12MM	N/A	LFR100-074
SS HOSE STUD STRAIGHT	1	6.35 X 11.3	N/A	8MM	20MM	12MM	N/A	LFR100-074-VA
STEEL HOSE STUD STRAIGHT	1	6.35 X 11.3	N/A	10MM	30MM	12MM	N/A	LFR100-081
STEEL HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	6MM	65.5MM	10MM	N/A	LFR100-091
STEEL HOSE STUD STRAIGHT (NON SWIVEL)	5	4,1 x 8,75	M10 x 1	6LL	N/A	11MM	N/A	LFR3510-101
STEEL HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	1/4IN	30MM	11MM	N/A	LFR3510-110
STEEL HOSE STUD STRAIGHT, PUSH LOCK	2	4,1 x 8,75	N/A	1/4IN	30MM	11MM	N/A	LFR3510-111
STEEL HOSE STUD STRAIGHT, PUSH LOCK	2	1/8 X 5/16	N/A	1/4IN	1/18IN	7/16IN	N/A	LFR3510-112
STEEL HOSE STUD STRAIGHT	1	4,1 x 8,75	N/A	3/16IN	20MM	10MM	N/A	LFR3510-113
HOSE STUD, STRAIGHT, STEEL, #4 JIC SWIVEL	6	4,1 x 8,75	#4 JIC	N/A	N/A	14MM	14MM	LFR3510-114

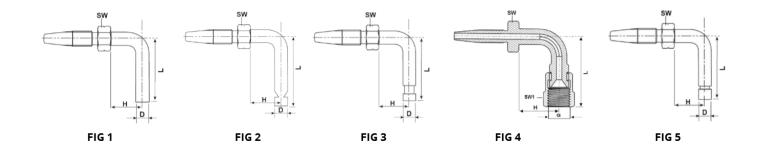




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HIGH PRESSURE 90° HOSE STUDS

90° HOSE STUD DESCRIPTION	FIG.	HOSE ID X OD	D	Н	L	SW	SW1	PART NUMBER
STEEL HOSE STUD 90°	1	4,1 x 8,75	6MM	13MM	21MM	10MM	N/A	LFR100-052
STEEL HOSE STUD 90°	1	4,1 x 8,75	6MM	28MM	37MM	10MM	N/A	LFR100-053
STEEL HOSE STUD 90°, PUSH LOCK	2	4,1 x 8,75	6MM	28MM	37MM	10MM	N/A	LFR100-053-NUT
STEEL HOSE STUD 90°, PUSH LOCK, BLACK	2	4,1 x 8,75	6MM	28MM	37MM	10MM	N/A	LFR100-053-NUT-SW
SS HOSE STUD 90°	2	4,1 x 8,75	6MM	28MM	37MM	10MM	N/A	LFR100-053-NUT-VA
SS HOSE STUD 90°	1	4,1 x 8,75	6MM	28MM	37MM	10MM	N/A	LFR100-053-VA
STEEL HOSE STUD 90°	1	4,1 x 8,75	6MM	28MM	53MM	10MM	N/A	LFR100-056
STEEL HOSE STUD 90°, PUSH LOCK	2	4,1 x 8,75	6MM	28MM	53MM	10MM	N/A	LFR100-056-NUT
STEEL HOSE STUD 90°	1	4,1 x 8,75	6MM	14MM	33MM	10MM	N/A	LFR100-059
STEEL HOSE STUD 90°	1	4,1 x 8,75	4MM	14MM	30MM	10MM	N/A	LFR100-059-4
STEEL HOSE STUD 90°	1	4,1 x 8,75	6MM	17MM	28MM	10MM	N/A	LFR100-062
STEEL HOSE STUD 90°	1	6.35 X 11.3	6MM	22MM	45MM	12MM	N/A	LFR100-063
STEEL HOSE STUD 90°	1	6.35 X 11.3	8MM	23MM	36MM	12MM	N/A	LFR100-073
SS HOSE STUD 90°	1	6.35 X 11.3	8MM	23MM	26MM	12MM	N/A	LFR100-073-VA
STEEL HOSE STUD 90°	1	6.35 X 11.3	8MM	23MM	55MM	12MM	N/A	LFR100-076
STEEL HOSE STUD 90°	1	6.35 X 11.3	10MM	23MM	36MM	12MM	N/A	LFR100-083
STEEL HOSE STUD 90°	2	1/8 X 5/16	1/4IN	1.06IN	1.18IN	7/16IN	N/A	LFR3510-112
STEEL HOSE STUD 90°	1	4,1 x 8,75	3/16IN	14MM	32MM	10MM	N/A	LFR3511-113
STEEL HOSE STUD 90°	1	4,1 x 8,75	1/4IN	28MM	37MM	11MM	N/A	LFR3511-110
STEEL HOSE STUD 90°, PUSH LOCK	2	4,1 x 8,75	1/4IN	28MM	37MM	11MM	N/A	LFR3511-111
STEEL HOSE STUD 90°, #JIC SWIVEL	4	4,1 x 8,75	N/A	20.7MM	25.7MM	14MM	14MM	LFR3511-114
SS HOSE STUD 90°	1	6.35 X 11.3	6MM	22MM	45MM	12MM	N/A	LFR3511-210
SS HOSE STUD 90°	1	6.35 X 11.3	10MM	23MM	36MM	12MM	N/A	LFR3511-212



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HIGH PRESSURE 45° HOSE STUDS

45° HOSE STUD DESCRIPTION	FIG.	HOSE ID X OD	D	Н	L	sw	PART NUMBER	
STEEL HOSE STUD 45°	1	4,1 x 8,75	6MM	24MM	15MM	10MM	LFR100-057	
STEEL HOSE STUD 45°, PUSH LOCK	2	4,1 x 8,75	6MM	24MM	15MM	10MM	LFR100-057-NUT	
STEEL HOSE STUD 45°	1	4,1 x 8,75	6MM	24MM	25MM	10MM	LFR100-058	0)4/
STEEL HOSE STUD 45°, PUSH LOCK	2	4,1 x 8,75	6MM	35MM	25MM	10MM	LFR100-058-NUT	sw
STEEL HOSE STUD 45°, PUSH LOCK, BLACK	2	4,1 x 8,75	6MM	35MM	25MM	10MM	LFR100-058-NUT-SW	
SS HOSE STUD 45°	2	4,1 x 8,75	6MM	35MM	25MM	10MM	LFR100-058-VA	
STEEL HOSE STUD 45°	1	6.35 X 11.3	6MM	35MM	25MM	12MM	LFR100-068	
STEEL HOSE STUD 45°	1	6.35 X 11.3	8MM	35MM	25MM	12MM	LFR100-078	FIG 1
STEEL HOSE STUD 45°	1	4,1 x 8,75	1/4IN	35MM	25MM	11MM	LFR3512-110	SW
STEEL HOSE STUD 45°, PUSH LOCK	2	4,1 x 8,75	1/4IN	35MM	25MM	11MM	LFR3512-111	
	1		Į.		Į.			Н

STAINLESS STEEL SPRING COILS FOR SHIELDING HIGH PRESSURE HOSE

SPRING COIL DESCRIPTION	L	D	D1	PART NUMBER
SS SPRING COIL (SHORT)	200MM	10.6MM	1.2MM	LFR100-045-VA
SS SPRING COIL (LONG)	2000MM	10.6MM	1.2MM	LFR100-046-VA
SS SPRING COIL (LONG)	5000MM	10.6MM	1.2MM	LFR100-047-VA

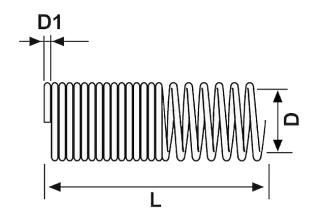




FIG 2

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MEDIUM PRESSURE HOSE, FITTINGS, & CONNECTORS

MEDIUM PRESSURE PLASTIC HOSE

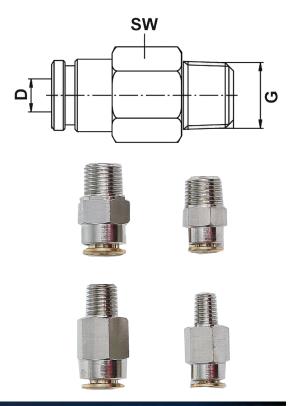
PLASTIC TUBE DESCRIPTION	PSI/BAR	D	D1	S	PART NUMBER
PLASTIC TUBE SEMI-RIGID, 4X.85, 50M COIL (BLACK)	1,044/72	4MM	2.3MM	.85MM	LFR100-010
PLASTIC TUBE SEMI-RIGID, 6X1.5, 100M COIL (BLACK)	1,044/72	6MM	3.0MM	.85MM	LFR100-003
PLASTIC TUBE SEMI-RIGID, 4X.85 50M COIL (BLACK)	1,291/89	4MM	2.3MM	.85MM	LFR100-006
PLASTIC TUBE SEMI-RIGID, 4X.85 50M COIL (CLEAR)	1,291/89	4MM	2.3MM	.85MM	LFR100-006-T
PLASTIC TUBE SEMI-RIGID, 6X1.5, 25M COIL (BLACK)	1,291/89	6MM	3.0MM	1.5MM	LFR100-003-25
HIGH-PRESSURE HOSE FILLED WITH NLGI 2 GREASE , 25 M COIL	1,291/89	6MM	3.0MM	1.5MM	LFR100-009-25





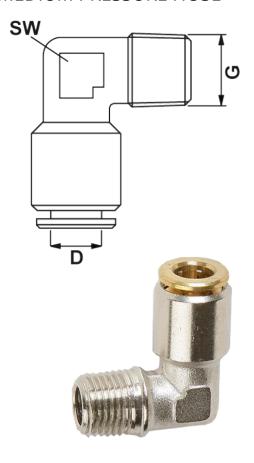
PUSH-IN STRAIGHT THREADED CONNECTORS FOR MEDIUM PRESSURE HOSE

PUSH-IN STRAIGHT CONNECTOR DESCRIPTION	G	D	SW	PART NUMBER
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	6X1	4MM	10MM	LFR104-051
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	8X1	4MM	10MM	LFR104-052
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	10X1	4MM	11MM	LFR104-053
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/8 BSP	4MM	10MM	LFR104-054
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/8 NPT	4MM	11MM	LFR104-054-NPT
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/4-28 UNF	4MM	11MM	LFR104-055-UNF
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	6X1	4MM	12MM	LFR106-051
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	8X1	6MM	12MM	LFR106-052
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	10X1	6MM	12MM	LFR106-053
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/8 BSP	6MM	12MM	LFR106-054
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/8 NPT	6MM	12MM	LFR106-054-NPT
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/4-28 UNF	6MM	12MM	LFR106-055-UNF
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/4-28 UNF	1/4IN	12MM	LFR2010-101
BRASS PLATED PUSH-IN - STRAIGHT CONNECTORS	1/8 NPT	1/4IN	12MM	LFR2010-102



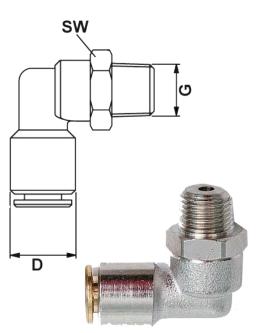
PUSH-IN THREADED ELBOW CONNECTORS FOR MEDIUM PRESSURE HOSE

PUSH-IN ELBOW CONNECTOR DESCRIPTION	G	D	sw	PART NUMBER
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	6X1	4MM	10MM	LFR104-151
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	8X1	4MM	10MM	LFR104-152
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	10X1	4MM	10MM	LFR104-153
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/8 BSP	4MM	10MM	LFR104-154
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/8 NPT	4MM	10MM	LFR104-154-NPT
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/4-28 UNF	4MM	10MM	LFR104-155-UNF
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	6X1	6MM	10MM	LFR106-151
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	8X1	6MM	10MM	LFR106-152
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	10X1	6MM	10MM	LFR106-153
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/8 BSP	6MM	10MM	LFR106-154
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/8 NPT	6MM	10MM	LFR106-154-NPT
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/4-28 UNF	6MM	10MM	LFR106-155-UNF
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/4-28 UNF	1/4IN	10MM	LFR2011-101
BRASS PLATED PUSH-IN ELBOW-CONNECTORS	1/8 NPT	1/4IN	10MM	LFR2011-102



PUSH-IN-90° THREADED SWIVELS FOR MEDIUM PRESSURE HOSE

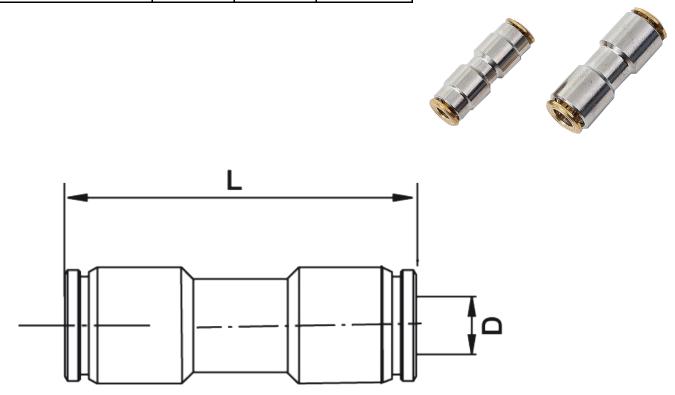
PUSH-IN-90° SWIVEL DESCRIPTION	G	D	sw	PART NUMBER
BRASS PLATED PUSH-IN-90° SWIVELS	6X1	4MM	13MM	LFR104-111
BRASS PLATED PUSH-IN-90° SWIVELS	8X1	4MM	13MM	LFR104-112
BRASS PLATED PUSH-IN-90° SWIVELS	10X1	4MM	13MM	LFR104-113
BRASS PLATED PUSH-IN-90° SWIVELS	1/8 BSP	4MM	13MM	LFR104-114
BRASS PLATED PUSH-IN-90°SWIVELS	1/8 NPT	4MM	13MM	LFR104-114-NPT
BRASS PLATED PUSH-IN-90°SWIVELS, FREELY MOVABLE	1/4-28 UNF	4MM	13MM	LFR104-115-UNF
BRASS PLATED PUSH-IN-90° SWIVELS, FREELY MOVABLE	6X1	6MM	13MM	LFR106-111
BRASS PLATED PUSH-IN-90° SWIVELS, FREELY MOVABLE	8X1	6MM	13MM	LFR106-112
BRASS PLATED PUSH-IN-90° SWIVELS, FREELY MOVABLE	10X1	6MM	13MM	LFR106-113
BRASS PLATED PUSH-IN-90° SWIVELS, FREELY MOVABLE	1/8 BSP	6MM	13MM	LFR106-114
BRASS PLATED PUSH-IN-90° SWIVELS, FREELY MOVABLE	1/8 NPT	6MM	13MM	LFR106-114-NPT
BRASS PLATED PUSH-IN-90° SWIVELS, FREELY MOVABLE	1/4-28 UNF	6MM	13MM	LFR106-115-UNF
BRASS PLATED PUSH-IN-90° SWIVELS, FREELY MOVABLE	1/8 NPT	1/4IN	13MM	LFR2012-102
BRASS PLATED PUSH-IN-90°SWIVELS, FREELY MOVABLE	1/4-28 UNF	1/4IN	13MM	LFR2012-101



^{*}OPERATING PRESSURE OF ALL PUSH-IN FITTING IS 1160 PSI / 80 BAR

PUSH-IN TUBING CONNECTORS FOR MEDIUM PRESSURE HOSE

PUSH-IN CONNECTOR DESCRIPTION	D	L	PART NUMBER
BRASS PLATED PUSH-IN CONNECTORS	4MM	30MM	LFR104-110
BRASS PLATED PUSH-IN CONNECTORS	6MM	33.5MM	LFR106-110
BRASS PLATED PUSH-IN CONNECTORS	1/4IN	35.5MM	LFR2013-100



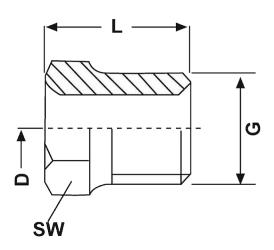
^{*}OPERATING PRESSURE OF ALL PUSH-IN FITTING IS 1160 PSI / 80 BAR

SOCKET UNION FOR DOUBLE CONE FERRULES (DRIVES) FOR PLASTIC TUBE

SOCKET UNION FOR DOUBLE CONE DRIVE DESCRIPTION	G	D	L	SW	PART NUMBER
STEEL SOCKET UNION FOR DOUBLE CONE	8X1	4MM	12MM	8MM	LFR104-205
STEEL SOCKET UNION FOR DOUBLE CONE	10X1	6MM	14MM	10MM	LFR106-205







DOUBLE CONE FERRULES (DRIVES) FOR PLASTIC TUBE

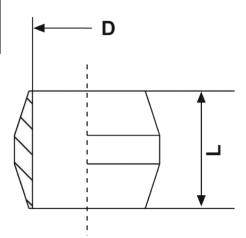
DOUBLE CONE DRIVE DESCRIPTION	D	L	PART NUMBER
BRASS DOUBLE CONE DRIVE	4MM	5.5MM	LFR104-215
BRASS DOUBLE CONE DRIVE	6MM	7MM	LFR106-215
SS M10 X 1.0 PLUG	4MM	7MM	1202-400
SS TUBE NUT	6MM	7MM	FL316-401-6
M10 X 1.0 CONNECTOR	6MM	7MM	1202-401-6
SS M10 X 1.0 CONNECTOR	4MM	7MM	1202-401-4MK
SS M10 X 1.0 CONNECTOR	6MM	7MM	1202-401-6MK









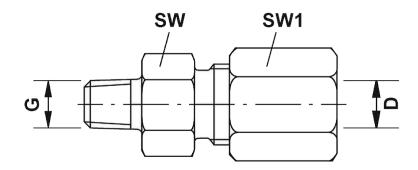


STEEL TUBE FITTINGS & CONNECTORS

STRAIGHT SCREW COUPLINGS FOR STEEL TUBE

STRAIGHT SCREW COUPLING DESCRIPTION	G	D	sw	SW1	PART NUMBER
STEEL STRAIGHT SCREW COUPLING	6X1	4MM	9MM	10MM	LFR104-001
STEEL STRAIGHT SCREW COUPLING	10X1	4MM	9ММ	10MM	LFR104-002
STEEL STRAIGHT SCREW COUPLING	10X1	4MM	11MM	10MM	LFR104-003
STEEL STRAIGHT SCREW COUPLING	6X1	6MM	11MM	12MM	LFR106-001
SS STRAIGHT SCREW COUPLING	6X1	6MM	11MM	12MM	LFR106-001-VA
STEEL STRAIGHT SCREW COUPLING	8X1	6MM	11MM	12MM	LFR106-002
SS STRAIGHT SCREW COUPLING	8X1	6MM	11MM	12MM	LFR106-002-VA
STEEL STRAIGHT SCREW COUPLING	10X1	6MM	11MM	12MM	LFR106-003
SS STRAIGHT SCREW COUPLING	10X1	6MM	11MM	12MM	LFR106-003-VA
STEEL STRAIGHT SCREW COUPLING	1/8 BSP	6MM	11MM	12MM	LFR106-004
SS STRAIGHT SCREW COUPLING	1/8 BSP	6MM	11MM	12MM	LFR106-004-VA
STEEL STRAIGHT SCREW COUPLING	1/8 NPT	6MM	11MM	12MM	LFR106-004-NPT
STEEL STRAIGHT SCREW COUPLING	1/4 BSP	6MM	19MM	14MM	LFR106-005-L
STEEL STRAIGHT SCREW COUPLING	10X1	8MM	14MM	14MM	LFR108-003
SS STRAIGHT SCREW COUPLING	10X1	8MM	17MM	17MM	LFR108-003-VA-L
STEEL MALE CONNECTOR, STRAIGHT COUPLING	1/8 BSP	8MM	19MM	14MM	LFR108-004-L
STEEL STRAIGHT SCREW COUPLING	1/4 BSP	8MM	19MM	17MM	LFR108-005-L

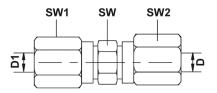




STRAIGHT CONNECTORS FOR STEEL TUBE

STRAIGHT CONNECTOR DESCRIPTION	D	D1	SW	SW1	SW2	PART NUMBER
STEEL CONNECTOR STRAIGHT	4MM	4MM	11MM	10MM	12MM	LFR104-000-6
SS CONNECTOR STRAIGHT	4MM	4MM	9MM	10MM	10MM	LFR104-000-VA
STEEL CONNECTOR STRAIGHT	6MM	6MM	11MM	12MM	12MM	LFR106-000
SS CONNECTOR STRAIGHT	6MM	6MM	10MM	11MM	12MM	LFR106-000-VA

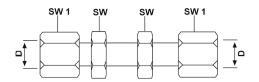




STRAIGHT BULKHEAD FOR STEEL TUBE

STRAIGHT BULKHEAD DESCRIPTION	D	SW	SW1	PART NUMBER
STEEL BULKHEAD STRAIGHT	6MM	17MM	14MM	LFR106-221-L

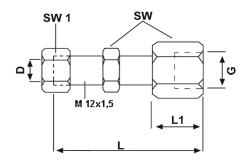




STRAIGHT BULKHEAD M 6x1 / M 10x1 FOR STEEL TUBE

STRAIGHT BULKHEAD DESCRIPTION	G	D	SW	SW1	L	L1	PART NUMBER
STEEL BULKHEAD STRAIGHT	10X1	6MM	17MM	14MM	60MM	20MM	LFR106-243-L

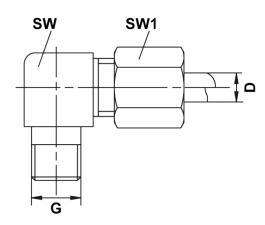




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ELBOW SCREW FITTINGS FOR STEEL TUBE

ELBOW SCREW FITTING DESCRIPTION	G	D	sw	SW1	PART NUMBER
STEEL ELBOW SCREW FITTING COMPLETE	6X1	4MM	9MM	10MM	LFR104-101
STEEL ELBOW SCREW FITTING COMPLETE	8X1	4MM	9MM	10MM	LFR104-102
STEEL ELBOW SCREW FITTING COMPLETE	10X1	4MM	11MM	10MM	LFR104-103
STEEL ELBOW SCREW FITTING COMPLETE	1/8 BSP	4MM	11MM	10MM	LFR104-104
STEEL ELBOW SCREW FITTING COMPLETE	6X1	6MM	11MM	12MM	LFR106-101
SS ELBOW SCREW FITTING COMPLETE	6X1	6MM	11MM	12MM	LFR106-101-VA
STEEL ELBOW SCREW FITTING COMPLETE	8X1	6MM	11MM	12MM	LFR106-102
SS ELBOW SCREW FITTING COMPLETE	8X1	6MM	11MM	12MM	LFR106-102-VA
STEEL ELBOW SCREW FITTING COMPLETE	10X1	6MM	11MM	12MM	LFR106-103
SS ELBOW SCREW FITTING COMPLETE	10X1	6MM	11MM	12MM	LFR106-103-VA
STEEL ELBOW SCREW FITTING COMPLETE	1/8 BSP	6MM	11MM	12MM	LFR106-104
STEEL ELBOW SCREW FITTING COMPLETE	1/8 NPT	6MM	11MM	12MM	LFR106-104-NPT
SS ELBOW SCREW FITTING COMPLETE	1/8 BSP	6MM	11MM	12MM	LFR106-104-VA
STEEL ELBOW SCREW FITTING COMPLETE	1/4 BSP	6MM	12MM	14MM	LFR106-105-L
STEEL ELBOW SCREW FITTING COMPLETE	10X1	8MM	12MM	14MM	LFR108-103
STEEL ELBOW SCREW FITTING COMPLETE	1/4 BSP	8MM	12MM	17MM	LFR108-105-L

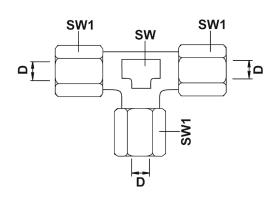




EQUAL TEE CONNECTORS FOR STEEL TUBE

EQUAL TEE CONNECTOR DESCRIPTION	D	SW	SW1	PART NUMBER
STEEL EQUAL TEE CONNECTOR	4MM	9MM	10MM	LFR104-300
STEEL EQUAL TEE CONNECTOR	6MM	11MM	12MM	LFR106-300
STEEL EQUAL TEE CONNECTOR	6MM	12MM	14MM	LFR106-300-L
STEEL EQUAL TEE CONNECTOR	8MM	12MM	14MM	LFR108-300
STEEL EQUAL TEE CONNECTOR	8MM	12MM	17MM	LFR108-300-L



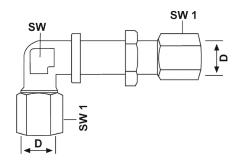


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BULKHEAD ELBOW FOR STEEL TUBE

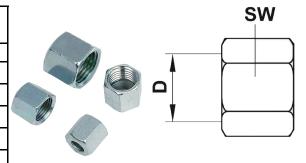
BULKHEAD ELBOW DESCRIPTION	D	SW	SW1	PART NUMBER
STEEL BULKHEAD ELBOW	6MM	12MM	14MM	LFR106-231-L





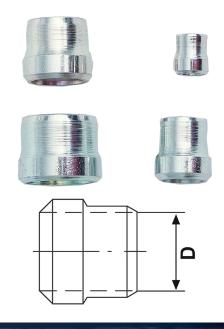
COUPLING NUTS FOR STEEL TUBE

EQUAL TEE CONNECTOR DESCRIPTION	D	SW	PART NUMBER
STEEL COUPLING NUT	6MM	17MM	LFR106-200-S
STEEL COUPLING NUT	6MM	14MM	LFR106-200-L
SS COUPLING NUT	6MM	12MM	LFR106-200-VA
STEEL COUPLING NUT	8MM	14MM	LFR108-200
STEEL COUPLING NUT	10MM	19MM	LFR110-200-L
STEEL COUPLING NUT	4MM	10MM	LFR104-200



CUTTING RINGS FOR STEEL TUBE

CUTTING RING DESCRIPTION	D	PART NUMBER
STEEL CUTTING RING	4MM	LFR104-210
STEEL CUTTING RING,	6MM	LFR106-210
STEEL CUTTING RING	10MM	LFR106-210-L
BRASS CUTTING RING	6MM	LFR106-210-MS
SS CUTTING RING	6MM	LFR106-210-VA
STEEL CUTTING RING	8MM	LFR108-210
STEEL CUTTING RING	10MM	LFR110-210-L

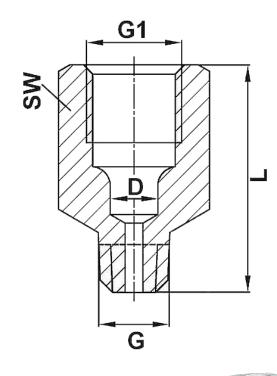


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LUBE POINT EXTENSIONS

EXTENSIONS

EXTENSION PIECE DESCRIPTION	G	G1	L	SW	PART NUMBER
STEEL EXTENSION PIECE - ADAPTER	(M) 6X1	(F) 8X1	19MM	11MM	LFR100-120
STEEL EXTENSION PIECE - ADAPTER	(M) 8X1	(F) 8X1	18MM	11MM	LFR100-130
STEEL EXTENSION PIECE - ADAPTER	(M) 8X1	(F) 8X1	32MM	11MM	LFR100-132
STEEL EXTENSION PIECE - ADAPTER	(M) 8X1	(F) 8X1	62.5MM	11MM	LFR100-135
STEEL EXTENSION PIECE - ADAPTER	(M) 8X1	(F) 10X1	23MM	13MM	LFR100-137
STEEL EXTENSION PIECE - ADAPTER	(M) 10X1	(F) 8X1	18MM	11MM	LFR100-140
STEEL EXTENSION PIECE - ADAPTER	(M) 10X1	(F) 10X1	23MM	13MM	LFR100-141
SS ADAPTER	(M) 10X1	(F) 10X1	23MM	13MM	LFR100-141-VA
STEEL EXTENSION PIECE - ADAPTER	(M) 10X1	(F) 10X1	18MM	13MM	LFR100-142
STEEL EXTENSION PIECE - ADAPTER	(M) 10X1	(F) 10X1	40MM	13MM	LFR100-143
STEEL EXTENSION PIECE - ADAPTER	(M) 1/8 BSP	(F) 10X1	20MM	17MM	LFR100-144
STEEL EXTENSION PIECE - ADAPTER	(M) 10X1	(F) 10X1	35MM	13MM	LFR100-145
STEEL EXTENSION PIECE - ADAPTER	(M) 10X1	(F) 10X1	50MM	13MM	LFR100-146
STEEL EXTENSION PIECE - ADAPTER	(M) 1/4 BSP	(F) 1/8 BSP	20MM	17MM	LFR100-147
STEEL ADAPTER, EXTENSION PIECE	(M) 1/8 BSP	(F) 1/8 BSP	23MM	13MM	LFR100-148
SS ADAPTER	(M) 1/8 BSP	(F) 1/8 BSP	23MM	13MM	LFR100-148-VA
STEEL ADAPTER, EXTENSION PIECE	(M) 1/8 BSP	(F) 1/8 BSP	35MM	13MM	LFR100-149
STEEL ADAPTER, EXTENSION PIECE	(M) 1/8 BSP	(F) 10X1	18MM	13MM	LFR100-151
STEEL ADAPTER, EXTENSION PIECE	(M) 1/8 BSP	(F) 1/8 BSP	18MM	13MM	LFR100-152
STEEL ADAPTER, EXTENSION PIECE	(M) 1/8 BSP	(F) 1/8 BSP	50MM	13MM	LFR100-153
STEEL ADAPTER, EXTENSION PIECE	(M) 1/8 BSP	(F) 1/4 BSP	22MM	17MM	LFR100-162
STEEL ADAPTER, EXTENSION PIECE	(M) 10X1	(F) 1/4 BSP	22MM	17MM	LFR100-171
SS ADAPTER	(M) 6X1	(F) 10X1	18MM	13MM	LFR2510-201
SS ADAPTER	(M) 6X1	(F) 10X1	35MM	13MM	LFR2510-202
SS ADAPTER	(M) 6X1	(F) 10X1	50MM	13MM	LFR2510-203
SS ADAPTER	(M) 1/8 BSP	(F) 1/8 BSP	18MM	11MM	LFR2510-204
SS ADAPTER	(M) 1/8 BSP	(F) 1/8 BSP	35MM	13MM	LFR2510-205
SS ADAPTER	(M) 1/8 BSP	(F) 1/8 BSP	50MM	13MM	LFR2510-206



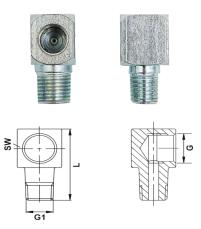


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45° & 90° ELBOW ADAPTERS - METRIC/NPT

90° ELBOW ADAPTERS - METRIC

METRIC 90° ADAPTER DESCRIPTION	G	G1	L	SW	PART NUMBER
METRIC, STEEL ADAPTER 90°	(M) 8X1	(F) 8X1	23MM	12MM	LFR100-722
METRIC, STEEL ADAPTER 90°	(M) 10X1	(F) 10X1	23MM	13MM	LFR100-733
METRIC, STEEL ADAPTER 90°	(M) 1/8 BSP	(F) 1/8 BSP	23MM	13MM	LFR100-744
METRIC, SS ADAPTER 90°	(M) 10X1	(F) 10X1	23MM	13MM	LFR5011-201



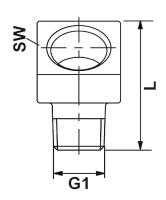
US 90° ADAPTER DESCRIPTION	G	G1	L	sw	PART NUMBER	SW -
IS, 1/4 NPTF SS 303 DAPTER 90°	(M) 1/4 NPSF	(F) 1/4 NPTF	1.25"	.625"	L590113-303	
IS, 1/4 NPTF SS 316 DAPTER 90°	(M) 1/4 NPSF	(F) 1/4 NPTF	1.25"	.625"	L590113-316	
IS, 1/8 NPTF SS 303 DAPTER 90°	(M) 1/8 NPSF	(F) 1/8 NPTF	1.00"	.625"	L590110-NPSF-303	
IS, 1/8 NPTF SS 316 DAPTER 90°	(M) 1/8 NPSF	(F) 1/8 PTF SAE SHORT	1.00"	.625"	L590110-316	G
			6-			1/4

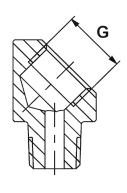
45°ELBOW ADAPTERS - METRIC

45° ADAPTER DESCRIPTION	G	G1	L	SW	PART NUMBER
STEEL ADAPTER 45°	(M) 8X1	(F) 8X1	23MM	13MM	LFR100-822
STEEL ADAPTER 45°	(M) 10X1	(F) 10X1	23MM	13MM	LFR100-833
STEEL ADAPTER 45°	(M) 1/8 BSP	(F) 1/8 BSP	23MM	13MM	LFR100-844
SS ADAPTER 45°	(M) 10X1	(F) 10X1	23MM	13MM	LFR5010-201





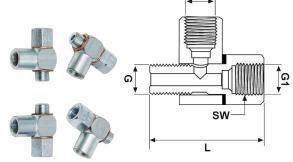




SWIVELS & BANJO FITTINGS - METRIC/NPT

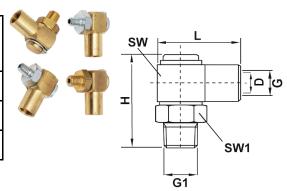
T-BANJO FITTINGS - METRIC

T-BANJO FITTING DESCRIPTION	G	G1	L	sw	PART NUMBER
ZINC PLATED STEEL T-BANJO SWIVEL FITTING	10X1	10X1	35MM	14MM	LFR1100-323



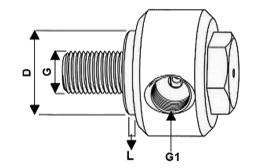
90° BANJO FITTINGS - METRIC

BANJO FITTING DESCRIPTION	G	G1	L	sw	SW1	D	Н	PART NUMBER
BRASS BANJO FITTING FREELY MOVABLE 90°	(M) 8X1	(M) 8X1	26.5MM	15MM	14MM	4MM	30MM	LFR106-172
BRASS BANJO FITTING FREELY MOVABLE 90°	(M) 8X1	(M) 10X1	26.5MM	15MM	14MM	4MM	30MM	LFR106-173
BRASS BANJO FITTING FREELY MOVABLE 90°	(M) 8X1	1/8 BSP	29MM	15MM	14MM	6MM	30MM	LFR106-174



BANJOS FOR CONSTRUCTION VEHICLES - METRIC

BANJOS FOR CONSTRUCTION VEHICLES DESCRIPTION	G	G1	L	D	PART NUMBER
STEEL SWIVEL UNION 90°	10X1	10X1	змм	20MM	LFR1021-101
STEEL SWIVEL UNION 90°	10X1	10X1	8MM	20MM	LFR1021-102
STEEL SWIVEL UNION 90°	1/8 BSP	1/8 BSP	змм	20MM	LFR1022-101
STEEL SWIVEL UNION 90°	1/8 BSP	1/8 BSP	8MM	20MM	LFR1022-102



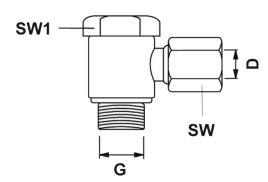




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SWIVEL UNIONS - METRIC

SWIVEL UNION DESCRIPTION	G	D	sw	SW1	PART NUMBER
STEEL SWIVEL UNION 90°	10X1	6MM	10MM	14MM	LFR106-123
STEEL SWIVEL UNION 90°	10X1	4MM	10MM	14MM	LFR1022-110





SWIVEL VALVE ASSEMBLIES - NPT

PRODUCT DESCRIPTION	CONNECTION TYPE	MATERIAL	PART NUMBER
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	90° ELBOW	CRS	L509405-000
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	90° ELBOW	303 SS	L509405-303
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	90° ELBOW	316 SS	L509405-316
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	STRAIGHT	CRS	L509406-000
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	STRAIGHT	303 SS	L509406-303
SWIVEL ASSEMBLY 1/4 NPTF X 1/4 NPSF	STRAIGHT	316 SS	L509406-316









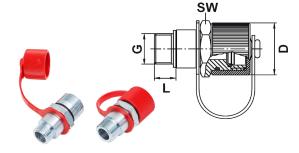


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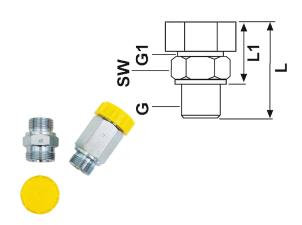
FILL FITTINGS - METRIC/NPTF

FILLING CONNECTION ADAPTERS

FILLING CONNECTION FOR FILLING PUMP DESCRIPTION	G	D	SW	PART NUMBER
STEEL FILLING CONNECTION FOR FILLING PUMP LFR100-201	(M) 20X1.5	34MM	32MM	LFR100-200
STEEL FILLING CONNECTION FOR FILLING PUMP LFR100-201	(M) 22X1.5	34MM	32MM	LFR100-208



STRAIGHT FILLING CONNECTION DESCRIPTION	G	G1	L	L1	SW	PART NUMBER
STEEL FILLING CONNECTION STRAIGHT	(M) 22X1.5	(M) 26X1.5	38MM	26MM	27MM	LFR100-202
STEEL FILLING CONNECTION STRAIGHT	(M) 20X1.5	(M) 26X1.5	60MM	48MM	27MM	LFR100-207

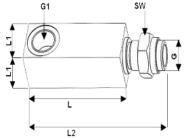


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90° FILLING CONNECTION DESCRIPTION	G	G1	L	L1	L2	SW	PART NUMBER
STEEL ADAPTER FILLING CONNECTION 90° WITH STUB	(M) 20X1.5	(M) 20X1.5	82MM	30MM	115MM	27MM	LFR5022-101
STEEL ADAPTER FILLING CONNECTION 90° WITH STUB	(M) 20X1.5	(M) 20X1.5	47MM	30MM	80MM	27MM	LFR5022-102
STEEL ADAPTER FILLING CONNECTION 90° WITH STUB	(M) 22X1.5	(M) 22X1.5	82MM	30MM	115MM	27MM	LFR5022-103
STEEL ADAPTER FILLING CONNECTION 90° WITH STUB	(M) 22X1.5	(M) 22X1.5	47MM	30MM	80MM	27MM	LFR5022-104
STEEL FILLING CONNECTION 90° WITHOUT STUB	(M) 22X1.5	(M) 26X1.5	71MM	N/A	N/A	27MM	LFR100-203



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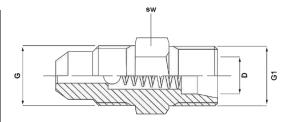
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CHECK (NON-RETURN VALVES - METRIC/NPTF)

NON-RETURN VALVES

NON-RETURN VALVE DESCRIPTION	G	G1	D	SW	SW1	PART NUMBER
STEEL NON-RETURN VALVE COMPLETE	10X1	10X1	6MM	11MM	12MM	LFR106-003-RVB
STEEL NON-RETURN VALVE COMPLETE	10X1	10X1	6MM	11MM	12MM	LFR106-003-RVL
STEEL NON-RETURN VALVE COMPLETE	10X1	10X1	6MM	11MM	12MM	LFR106-003-RVV
STEEL NON-RETURN VALVE ADAPTER 24° WITHOUT CLAMPING RING	10X1	10X1	6MM	11MM	N/A	LFR106-033-RVB
STEEL NON-RETURN VALVE ADAPTER 24° WITH CLAMPING RING	10X1	10X1	6MM	11MM	N/A	LFR106-033-RVL
STEEL NON-RETURN VALVE ADAPTER 24°	10X1	10X1	6MM	11MM	N/A	LFR106-033-RVV





CHECK VALVES—OCV SERIES - NPT

OUTLET TYPE WITH SINGLE BALL

CHECK VALVE DESCRIPTION			PART NUMBER			
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS	
1/8" NPTF (M)	1/4" TUBE	35	OCV-303-125-NPTF	OCV-316-125-NPTF	INTEGRAL TUBE FITTING	
1/8" ORS (M)	1/4" TUBE	35	OCV-303-125-ORS	OCV-316-125-ORS	INTEGRAL TUBE FITTING	
1/8" BSPP (M)	6MM TUBE	35	OCV-303-125-BSPP	OCV-316-125-BSPP	INTEGRAL TUBE FITTING	
M10 ISO (M)	6MM TUBE	35	OCV-303-125-ISO	OCV-316-125-ISO	INTEGRAL TUBE FITTING	
7/16"-20 SAE (M)	1/4" TUBE	35	OCV-303-125-SAE	OCV-316-125-SAE	INTEGRAL TUBE FITTING	





CHECK VALVES - OCV SERIES - NPT OUTLET TYPE WITH SINGLE BALL CHECK VALVES

CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/8" NPSF (M)	1/8" NPTF (F)	35	OCV-303-125R-35	OCV-316-125R-35	TUBE FITTING
1/8" NPSF (M)	1/8" NPTF (F)	60	OCV-303-125R-60	OCV-316-125R-60	TUBE FITTING
1/8" NPSF (M)	1/8" NPTF (F)	250	OCV-303-125R-250	OCV-316-125R-250	TUBE FITTING
1/4"NPTF (M)	1/4" NPSF (F)	35	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING





^{*} FOR CHECK VALVE BULLETINS AND OPERATION/FUNCTION DETAILS PLEASE REFER TO BULLETINS: LSM011 & LSM029

CHECK (NON-RETURN VALVES - METRIC/NPTF) (CONTINUED)

CHECK VALVES -TCV SERIES - NPT TERMINATING (INJECTION) DOUBLE BALL CHECK VALVES

CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/4" TUBE	1/8" NPTF (M)	35	TCV-303-125-NPTF	TCV-316-125-NPTF	INTEGRAL TUBE FITTING
6MM TUBE	1/8" BSPP (M)	35	TCV-303-125-BSPP	TCV-316-125-BSPP	INTEGRAL TUBE FITTING
6MM TUBE	M10 (M)	35	TCV-303-125-ISO	TCV-316-125-ISO	INTEGRAL TUBE FITTING
1/4" TUBE	7/16″-20 SAE	35	TCV-303-125-SAE	TCV-316-125-SAE	INTEGRAL TUBE FITTING
1/4" NPSF (F)**	1/4" NPSF (F)	50	TCV-303-250-DB-	TCV-316-250-DB-FF	INLET & OUTLET
1/4" NPSF (F)**	1/8" NPTF (M)	50	TCV-303-250-DB- FM2	TCV-316-250-DB-FM2	INLET
1/4" NPSF (F)**	1/4" NPTF (M)	50	TCV-303-250-DB- FM4	TCV-316-250-DB-FM4	INLET



** HIGH OUTPUT



HIGH OUTPUT
ADAPTER



CHECK VALVES - TCV SERIES - NPT

TERMINATING (INJECTION) SINGLE BALL CHECK VALVES

CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL	303 STAINLESS	316 STAINLESS	ADAPTER
1/8" NPSF (F)	1/8" NPTF (M)	35	TCV-303-125-35	TCV-316-125-35	TUBE FITTING
1/8" NPSF (F)	1/8" NPTF (M)	60	TCV-303-125-60	TCV-316-125-60	TUBE FITTING
1/8" NPSF (F)	1/8" NPTF (M)	250	TCV-303-125-250	TCV-316-125-250	TUBE FITTING
1/4"NPTF (F)	1/4" NPSF (M)	35	TCV-303-250-35	TCV-316-250-35	TUBE FITTING



^{*} FOR CHECK VALVE BULLETINS AND OPERATION/FUNCTION DETAILS PLEASE REFER TO BULLETINS: LSM011 & LSM029

CHECK (NON-RETURN VALVES - METRIC/NPTF) (CONTINUED)

CHECK VALVE ADAPTERS, TERMINATING (INJECTION) - NPT

ADAPTS CHECK VALVES—FOR USE IN EITHER 1/8" NPTF OR 1/4" NPTF INJECTION PORTS FOR HIGH OUTPUT: INSTALL SELECTED ADAPTER INTO OUTPUT END OF CHECK VALVE FOR INTEGRAL FITTING: INSTALL CHECK VALVE INTO SIDE OF SELECTED ADAPTER

CHEC	CHECK VALVE DESCRIPTION			JMBER
INLET SIZE	OUTLET SIZE	USE WITH	303 STAINLESS	316 STAINLESS
1/4" NPSF (F)	1/8" NPTF (M)	HIGH OUTPUT DOUBLE BALL CHECK	DBFFADP-2-303	DBFFADP-2-316
1/4" NPSF (F)	1/4" NPTF (M)	HIGH OUTPUT DOUBLE BALL CHECK	DBFFADP-4-303	DBFFADP-4-316
1/8" NPSF (F)	1/8" NPTF (M)	1/8" NPTF TERMINATING CHECK	TCVADP-2-303	TCVADP-2-316
1/8" NPSF (F)	1/4" NPTF (M)	1/8" NPTF TERMINATING CHECK	TCVADP-4-303	TCVADP-4-316

HIGH OUTPUT



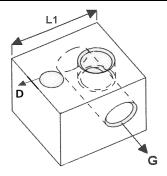
INTEGRAL ADAPTERS

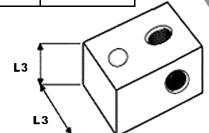


^{*} FOR CHECK VALVE BULLETINS AND OPERATION/FUNCTION DETAILS PLEASE REFER TO BULLETINS: LSM011 & LSM029

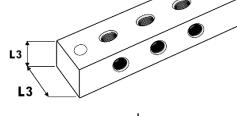
ZERK (MANUAL LUBE) BARS

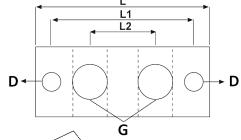
1 MOUNTING HOLE GREASE BLOCK DESCRIPTION	G	L	L3	D	PART NUMBER
METRIC, M10 X 1 PORT (1 LINE)	(M) 10X1	30MM 1.18"	25MM 1.00"	6.5MM .255"	LFR100-211
US, 1/8 NPSF (1 LINE)	1/8-27 NPSF	30MM 1.18"	25MM 1.00"	6.5MM .255"	LFR125-211

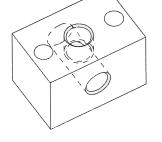




2 MOUNTING	G	L	L1	L2	L3	D	PART NUMBER
HOLE GREASE BLOCK DESCRIPTION							
METRIC, M10 X 1 PORTS (2 LINE)	(M) 10X1	60MM 2.36"	50MM 1.97"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR100-212
US, 1/8 NPSF (2 LINE)	1/8-27 NPSF	60MM 2.36"	50MM 1.97"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR125-212
METRIC, M10 X 1 PORTS (3 LINE)	M10 X 1	84MM 3.31"	74MM 2.91"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR100-213
US, 1/8 NPSF (3 LINE)	1/8-27 NPSF	84MM 3.31"	74MM 2.91"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR125-213
METRIC, M10 X 1 PORTS (4 LINE)	(M) 10X1	106MM 4.17"	96MM 3.78"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR100-214
US, 1/8 NPSF (4 LINE)	1/8-27 NPSF	106MM 4.17"	96MM 3.78"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR125-214
METRIC, M10 X 1 PORTS (5 LINE)	(M) 10X1	128MM 5.04"	118MM 4.65"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR100-215
US, 1/8 NPSF (5 LINE)	1/8-27 NPSF	128MM 5.04"	118MM 4.65"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR125-215
METRIC, M10 X 1 PORTS (6 LINE)	(M) 10X1	150MM 5.91"	140MM 5.51"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR100-216
US, 1/8 NPSF (6 LINE)	1/8-27 NPSF	150MM 5.91"	140MM 5.51"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR125-216
METRIC, M10 X 1 PORTS (8 LINE)	(M) 10X1	194MM 7.64"	184MM 7.25"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR100-218
US, 1/8 NPSF (8 LINE)	1/8-27 NPSF	194MM 7.64"	184MM 7.25"	22MM .866"	25MM 1.00"	6.5MM .255"	LFR125-218











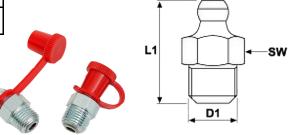
NOTE: ALL DIMENSION PROVIDED ARE +/- 1/16"

BULLETIN: LSM032 LAST REVISED: 05/21/2019 24

GREASE (ZERK) FITTINGS, FILL FITTINGS & CLOSURE PLUGS

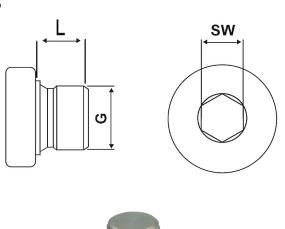
GREASE NIPPLES

GREASE NIPPLE DESCRIPTION	G	L	PSI/BAR	PART NUMBER
ZINC PLATED STEEL HIGH PRESSURE GREASE	10X1	20.7MM	5800/400	LFR250-003-RV



CLOSURE PLUGS

CLOSURE PLUG DESCRIPTION	G	L	SW	PART NUMBER
US, 1/8 NPSF (WITH O RING)	1/8-2 ORS	6.25MM	3/16"	A-002-S
US, BASEPLATE ISO PLUG	(M) 10X1	12MM	3/16"	A-003-S
US, 1/8-28 BSP SEAL PLUG	1/8-28BSPP	10MM	3/16"	A-004-S
US, 1/8-27 NPS SEAL PLUG	1/8-27NPS	10MM	3/16"	A-005-S
US, MANUAL FILL FITTING 303 (WITH CAP & O-RING)	1/8-27 ORS	6.5MM	3/16"	L90471-ORS-303
US, MANUAL FILL FITTING 316 (WITH CAP & O-RING)	1/8-27 ORS	6.5MM	3/16"	L90471-ORS-316
INTERNAL CHECK KIT 303 (CAP O-RING BALL SPRING)	N/A	N/A	N/A	1202-430
INTERNAL CHECK KIT 316 (CAP O-RING BALL SPRING)	N/A	N/A	N/A	FL316-430
STEEL CLOSURE PLUG	(M) 10X1	4.5MM	5MM	LFR100-243
STEEL CLOSURE PLUG	(M) 10X1	4.5MM	5MM	LFR100-243-SW







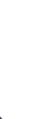
LFR100-243-SW











1202-430





A-002-S

A-004-S

A-005-S

L90471-ORS-303

LAST REVISED: 05/21/2019 **BULLETIN: LSM032** 25

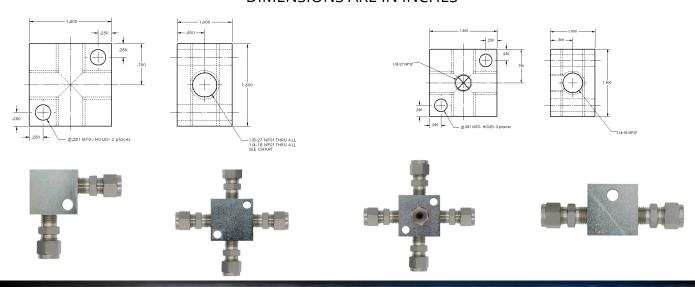
ANCHOR BLOCKS & HOSE DROPS - NPTF

PRODUCT DESCRIPTION	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL
4 WAY CROSS 1/8 NPSF (X4) 9/32 MTG HOLE	L509189-000	L509189-303	L509189-316
4 WAY CROSS 1/4 NPSF (X4) 9/32 MTG HOLE	L509188-000	L509188-303	L509188-316
5 WAY CROSS 1/4 NPSF (X4) 1/8 NPSF (X1) 9/32 MTG HOLE	L509190-000	L509190-303	L509190-316
2 WAY STRAIGHT 1/8 NPSF (X2) 9/32 MTG HOLE	L509180-000	L509180-303	L509180-316
2 WAY STRAIGHT 1/4 NPSF (X2) 9/32 MTG HOLE	L509185-000	L509185-303	L509185-316
90 DEGREE ELBOW 1/8 NPSF (X2) 9/32 MTG HOLE	L509170-000	L509170-303	L509170-316
90 DEGREE ELBOW 1/4 NPSF (X2) 9/32 MTG HOLE	L509175-000	L509175-303	L509175-316
SIDE IN FRONT OUT 1/4 NPSF (X2) 17/64 MTG	L509177-000	L509177-303	L509177-316





DIMENSIONS & MOUNTING INFORMATION DIMENSIONS ARE IN INCHES



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PURGE GUN AND GREASE GUN



READY FOR IMMEDIATE SHIPMENT

MADE IN



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A SIMPLE, COMPACT, COST-EFFECTIVE WAY TO DELIVER OIL OR GREASE IDEAL FOR PURGING EXISTING CENTRALIZED SYSTEMS WHEN CHANGING LUBRICATION OR PERFORMING MAINTENANCE CLEAR PLASTIC RESERVOIR FOR EASY VISUAL CONFIRMATION OF REMAINING LUBRICANT BENEFITS & FEATURES IDEAL FOR TROUBLESHOOTING AND SYSTEM TESTING STEEL BODY AND HDPE PLASTIC ARE DESIGNED TO WITHSTAND HARSH ENVIRONMENTS COMPACT AND NATURAL GRIP DESIGN COMBINE TO MAKE THE PUMP EASY TO HANDLE AND USE

INDEX

DESCRIPTION	PAGE
Purge Gun, Oil	3
Purge Gun, Oil – Dimensions	4
Purge Gun, With Filter	7
Purge Gun, With Filter – Dimensions	8
Grease Gun	5
Grease Gun – Dimensions	6

READY FOR IMMEDIATE SHIPMENT

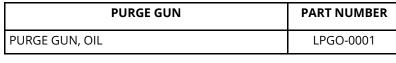
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BULLETIN: LSM035 RELEASE DATE: 08/14/2019 2





MANUFACTURED WITH STEEL AND ALUMINUM COMPONENTS LUBRICATION SCIENTIFICS INDUSTRY LEADING STANDARDS OF QUALITY AND DURABILITY. AVAILABLE FOR EITHER OIL OR GREASE APPLICATIONS.

FLUIDS / TECHNICAL DATA

- OI
- PUMP OUTPUT: 0.09 CU.IN / 1.5 CC
- MAXIMUM OPERATING PRESSURE: 5,000 PSI / 345 BAR
- RESERVOIR CAPACITIY: 1 PINT / 500 CC, 1 LB / 0.453 KG

APPLICATIONS

• IN-PLANT EQUIPMENT AND MACHINERY

ACCESSORIES

PURGE GUN OIL REPLACEMENT PARTS	PART NUMBER
1/8 IN NPT HIGH PRESSURE HOSE	12665-0037
1-1/2" 1/8" CB WET SS/SS 6000PSI PRESSURE GAUGE	LCB-15-6K-2
1/8 NPTF MALE BY 1/8 NPSF FEMALE, OPENS @ 35 PSI CHECK VALVE	OCV-303-125R-35
BODY FOR 0-421PR-OR SS REVERSE CHECK VALVE	12550-OCV-ORB-001
BRNPT REVERSE BALL CHECK BODY	12550-GTC-0421BR-0001



PURGE GUN OIL DIMENSIONS



BULLETIN: LSM035 RELEASE DATE: 08/14/2019

PURGE GUN WITH FILTER



PURGE GUN	PART NUMBER
PURGE GUN, OIL 3 MICRON	LPGO-0001-F03
PURGE GUN, OIL 5 MICRON	LPGO-0001-F05
PURGE GUN, OIL 10 MICRON	LPGO-0001-F10
PURGE GUN, OIL 25 MICRON	LPGO-0001-F25

MANUFACTURED WITH STEEL AND ALUMINUM COMPONENTS LUBRICATION SCIENTIFICS INDUSTRY LEADING STANDARDS OF QUALITY AND DURABILITY. AVAILABLE FOR EITHER OIL OR GREASE APPLICATIONS.

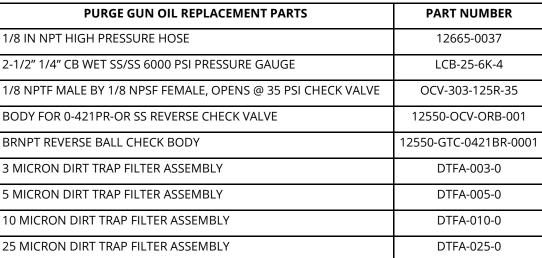
FLUIDS / TECHNICAL DATA

- PUMP OUTPUT: 0.09 CU.IN / 1.5 CC
- MAXIMUM OPERATING PRESSURE: 5,000 PSI / 345 BAR
- RESERVOIR CAPACITIY: 1 PINT / 500 CC, 1 LB / 0.453 KG

APPLICATIONS

IN-PLANT EQUIPMENT AND MACHINERY

ACCESSORIES





FILL FITTING



PRESSURE GAUGE



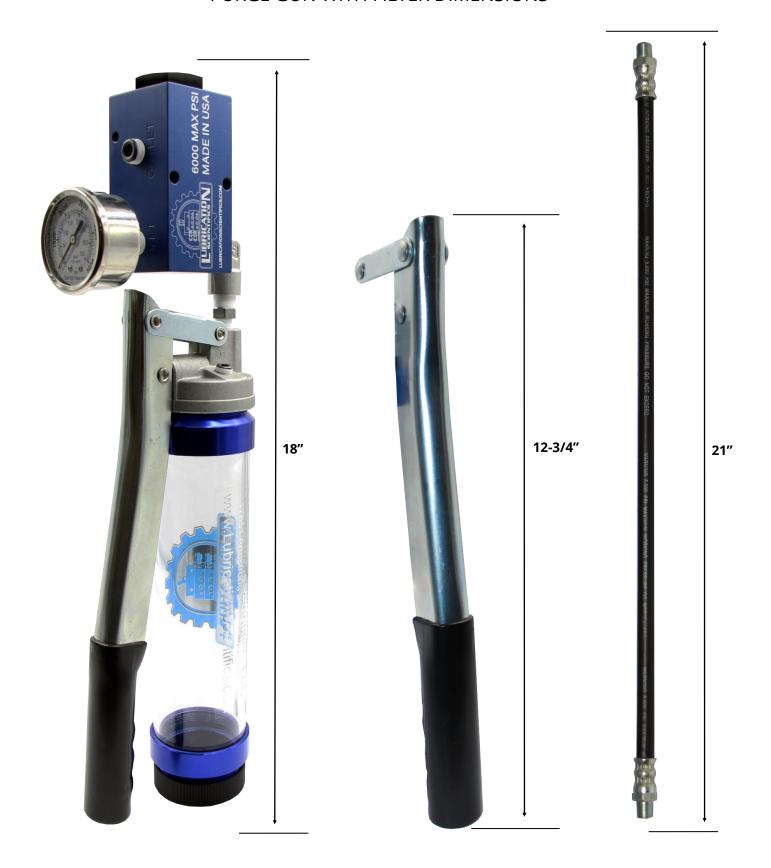
DIRT TRAP FILTER ASSEMBLY



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PURGE GUN WITH FILTER DIMENSIONS



BULLETIN: LSM035 RELEASE DATE: 08/14/2019



GREASE GUN

PURGE GUN	PART NUMBER
GREASE GUN	LPGO-0002

MANUFACTURED WITH STEEL AND ALUMINUM COMPONENTS LUBRICATION SCIENTIFICS INDUSTRY LEADING STANDARDS OF QUALITY AND DURABILITY. AVAILABLE FOR EITHER OIL OR GREASE APPLICATIONS.

FLUIDS / TECHNICAL DATA

- GREASE
- PUMP OUTPUT: 0.09 CU.IN / 1.5 CC
- MAXIMUM OPERATING PRESSURE: 5,000 PSI / 345 BAR
- RESERVOIR CAPACITIY: 1 PINT / 500 CC, 1 LB / 0.453 KG

APPLICATIONS

IN-PLANT EQUIPMENT AND MACHINERY

ACCESSORIES

PURGE GUN OIL REPLACEMENT PARTS	PART NUMBER
1/8 IN NPT HIGH PRESSURE HOSE	12665-0037
1/8 FEMALE ZERK FITTING COUPLER	12665-0042



FILL FITTING

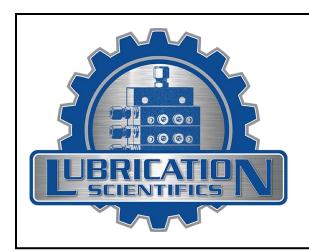


GREASE GUN DIMENSIONS

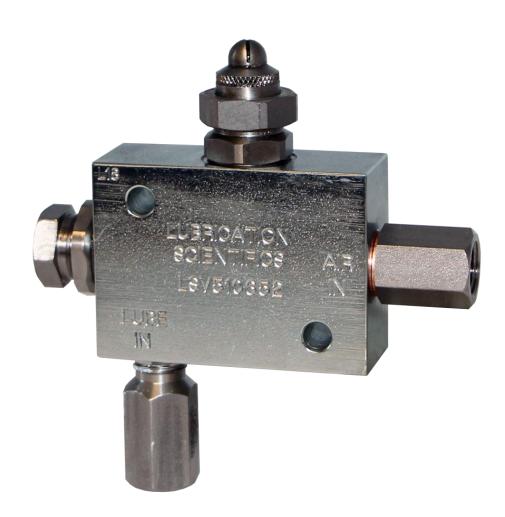


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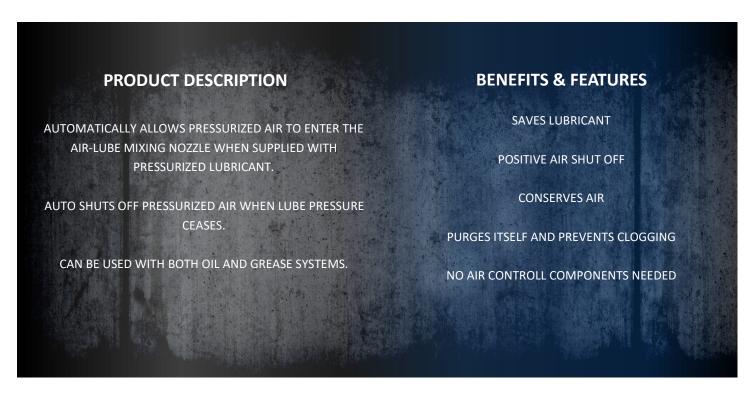
GREASE/OIL SPRAY VALVE



READY FOR IMMEDIATE SHIPMENT

MADE IN





LUBE TYPES:

- OIL— MINIMUM OF 100 SUS AT 100° F
- GREASE: NLGI #1 AT ANY TEMPERATURE, NLGI#2 AT 32 ° F OR ABOVE

TECHNICAL SPECIFICATIONS			
MINIMUM AIR PRESSURE	25 PSI (1.7 BAR)		
MAXIMUM AIR PRESSURE	145 PSI (10 BAR)		
SPRAY PATTERNS	4 INCH OR 8 INCH (10.2 cm OR 20.3 cm)		

ORDERING INFORMATION	
LSV-510652-4	SPRAY VALVE—4 INCH SPRAY DIAMETER, NORMAL
LSV-510652-8	SPRAY VALVE— 8 INCH SPRAY DIAMETER, WIDE

READY FOR IMMEDIATE SHIPMENT

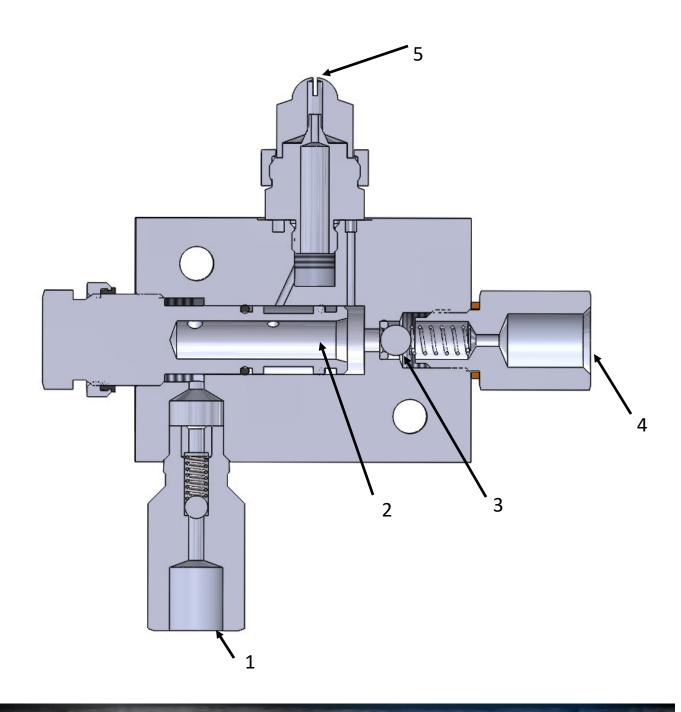
MADE IN



SPRAY VALVE FUNCTION

SPRAY VALVE FUNCTION:

WHEN LUBE INLET (1) IS PRESSURIZED LUBE ENTERS CHAMBER (2) ALLOWING THE AIR CHECK (3) TO OPEN. WHEN AIR CHECK (3) IS OPEN, PRESSURIZED AIR ENTERS FROM THE AIR INLET PORT(4). PRESSURIZED GREASE AND AIR MIX CREATING A SPRAY PATTERN OUT OF THE SPRAY CAP (5)





CASE® SERIES PROGRESSIVE OFF-ROAD LUBRICATION KITS



READY FOR IMMEDIATE SHIPMENT

MADE IN



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Drastically cut maintenance and repair costs and maximize machine life by automatically supplying lubricant in small amounts at controlled intervals, guaranteeing sufficient lubrication when it is needed the most - while they are in operation.

- BETTER PERFORMING EQUIPMENT WITH MINIMAL DOWNTIME
- MORE HOURLY PRODUCTION BY KEEPING EQUIPMENT ON THE JOB AND OUT OF THE SHOP
- LESS WASTE AND HIGHER PROFITS DUE TO LOWER LUBRICANT CONSUMPTION
- SAFER OPERATIONS BY ELIMINATING THE NEED TO CLIMB ON THE MACHINE TO LUBRICATE HARD TO REACH POINTS
- POSITIVE RETURN ON INVESTMENT AND A HEALTHIER BOTTOM LINE



STANDARD AND PREMIUM SERIES PROGRESSIVE OFF ROAD LUBRICATION KITS INCLUDE

ALL **STANDARD** OFF ROAD KITS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING ITEMS:

- PUMP W/ MOUNTING PLATE
- PRIMARY AND SECONDARY VALVE ASSEMBLIES W/ MOUNTING PLATES
- IN-CAB PUMP OPERATION LIGHT WITH MANUAL LUBE BUTTON
- WIRE LOOMS
- CLAMPS
- ZIP TIES
- SPIRAL WRAP
- SS SPRING COILS
- GREASE FILLED HOSE
- SEMI-RIGID TUBING
- SS FITTINGS, ADAPTERS, ETC.
- DISTRIBUTION VALVE SCHEMATIC
- INSTALLATION GUIDE

ALL **PREMIUM** OFF ROAD KITS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING ITEMS:

- PUMP W/ MOUNTING PLATE
- PRIMARY AND SECONDARY VALVE ASSEMBLIES W/ MOUNTING PLATES
- CONTROLLER W/ MOUNTING PLATE FEATURES FULL MONITORING OF SYSTEM CONDITIONS AND CONDITION MEMORY
- WIRE LOOMS
- CLAMPS
- ZIP TIES
- SPIRAL WRAP
- SS SPRING COILS
- GREASE FILLED HOSE
- SEMI-RIGID TUBING
- SS FITTINGS, ADAPTERS, ETC.
- DISTRIBUTION VALVE SCHEMATIC
- INSTALLATION GUIDE

LUBRICATION CONTAMINATION PREVENTION RESERVOIR (LCPR) OPTIONS AND UPGRADES

UPGRADE FROM STANDARD PUMP TO AN LCPR PUMP PACKAGE

- 1) Increase system's operating time between reservoir refills. (Available in 44lb, 60lb and 90lb Reservoirs) with 24 vdc motors
- 2) Rugged construction built for the toughest work environments.
- 3) System downstream filter included with all LCPR pump packages.
- 4) Reservoir refill filtration available for all LCPR pump packages. (remote fill/filter the reservoir from any easily accessible location)



LCPR-60-E24DC W 60LB RESERVOIR

ADD A SYSTEM DOWNSTREAM FILTER

- 1) Most non-pump related auto-lube system failures are related to contamination in the system metering devices.
- 2) Available in 40 and 100 MESH, our filter kit includes the filter mounting bar (Weld type) and a filter fill stud kit for safe manual lubrication during system startup or pump failure.



BULLETIN: LSM036 - CASE RELEASE DATE: 05/07/2019 4

FILTRATION OPTIONS AND UPGRADES

80% OF ALL PUMP FAILURES ARE DUE TO LUBRICANT CONTAMINATION

If the operation is under extreme demand and "Best Practices" are unable to be followed, the Remote Fill Filter will reduce the risk of contamination being introduced into your reservoir and destroying the pump.

Oil/Grease tote delivery systems may contain anywhere from 2 to 20 times the acceptable amount of particulate allowable for most lubrication pumps.

The smallest amount of dirt or sand can contaminate and possibly destroy a \$3000 pump.

OUR REMOTE FILL FILTER IS THE ENEMY OF CONTAMINATION.



CASE® WHEEL LOADER KITS



CASE® 521E 621E 721E

22 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO:

LORK-CASE-521E-721E-STD

PREMIUM KIT NO:

LORK-CASE-521E-721E-PREM



CASE® 821E 921E

22 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-CASE-821E-921E-STD

PREMIUM KIT NO:

LORK-CASE-821E-921E-PREM



CASE® 1021E 1121E

22 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS *

STANDARD KIT NO: LORK-CASE-1021E-1121E-STD

PREMIUM KIT NO:

LORK-CASE-1021E-1121E-PREM

CASE® EXCAVATOR KITS



CASE® CX130D CX145D CX160D

19 LUBRICATION POINTS

INSTALLATION ESTIMATE 19 HOURS *

STANDARD KIT NO:

LORK-CASE-CX130-160D-STD

PREMIUM KIT NO:

LORK-CASE-CX130-160D-PREM

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NO COPYRIGHT INFRINGEMENT IS INTENDED

* INSTALLATION TIME BASED UPON A 2 PERSON CREW

CASE® EXCAVATOR KITS (CONTINUED)



CASE® CX210 CX245 CX250

19 LUBRICATION POINTS

INSTALLATION ESTIMATE 19 HOURS*

STANDARD KIT NO:

LORK-CASE-CX210-250D-STD

PREMIUM KIT NO:

LORK-CASE-CX210-250D-PREM

CAT® GRADER KITS



CAT® 140M 160M

29 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO:

LORK-CAT-140M-160M-STD

PREMIUM KIT NO:

LORK-CAT-140M-160M-PREM

CAL

CAT® 14M 16M

30 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-CAT-14M-16M-STD

PREMIUM KIT NO:

LORK-CAT-14M-16M-PREM

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* INSTALLATION TIME BASED UPON A 2 PERSON CREW



CAT® SERIES PROGRESSIVE OFF-ROAD LUBRICATION KITS



READY FOR IMMEDIATE SHIPMENT

MADE IN



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Drastically cut maintenance and repair costs and maximize machine life by automatically supplying lubricant in small amounts at controlled intervals, guaranteeing sufficient lubrication when it is needed the most - while they are in operation.

- BETTER PERFORMING EQUIPMENT WITH MINIMAL DOWNTIME
- MORE HOURLY PRODUCTION BY KEEPING EQUIPMENT ON THE JOB AND OUT OF THE SHOP
- LESS WASTE AND HIGHER PROFITS DUE TO LOWER LUBRICANT CONSUMPTION
- SAFER OPERATIONS BY ELIMINATING THE NEED TO CLIMB ON THE MACHINE TO LUBRICATE HARD TO REACH POINTS
- POSITIVE RETURN ON INVESTMENT AND A HEALTHIER BOTTOM LINE



STANDARD AND PREMIUM SERIES PROGRESSIVE OFF ROAD LUBRICATION KITS INCLUDE

ALL **STANDARD** OFF ROAD KITS INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING ITEMS:

- PUMP W/ MOUNTING PLATE
- PRIMARY AND SECONDARY VALVE ASSEMBLIES W/ MOUNTING PLATES
- IN-CAB PUMP OPERATION LIGHT WITH MANUAL LUBE BUTTON
- WIRE LOOMS
- CLAMPS
- ZIP TIES
- SPIRAL WRAP
- SS SPRING COILS
- GREASE FILLED HOSE
- SEMI-RIGID TUBING
- SS FITTINGS, ADAPTERS, ETC.
- DISTRIBUTION VALVE SCHEMATIC
- INSTALLATION GUIDE

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LCPR-60-E24DC W 60LB RESERVOIR

ADD A SYSTEM DOWNSTREAM FILTER

- 1) Most non-pump related auto-lube system failures are related to contamination in the system metering devices.
- 2) Available in 40 and 100 MESH, our filter kit includes the filter mounting bar (Weld type) and a filter fill stud kit for safe manual lubrication during system startup or pump failure.



BULLETIN: LSM036 - CAT RELEASE DATE: 05/07/2019

FILTRATION OPTIONS AND UPGRADES

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The smallest amount of dirt or sand can contaminate and possibly destroy a \$3000 pump.

OUR REMOTE FILL FILTER IS THE ENEMY OF CONTAMINATION.



CAT® EXCAVATOR KITS



CAT® 308E

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 23 HOURS*

STANDARD KIT NO: LORK-CAT-308E-STD

PREMIUM KIT NO: LORK-CAT-308E-PREM



CAT® 312E 326E

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-CAT-312-326E-STD

PREMIUM KIT NO:

LORK-CAT-312-326E-PREM



CAT® 330 336E

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-CAT-330-336E-STD

PREMIUM KIT NO:

LORK-CAT-330-336E-PREM



CAT® 349E

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 23 HOURS*

STANDARD KIT NO: LORK-CAT-349E-STD

PREMIUM KIT NO:

LORK-CAT-349E-PREM

CASE® IS A REGISTERED TRADEMARK OF CNH INDUSTRIAL AMERICA LLC
NO COPYRIGHT INFRINGEMENT IS INTENDED

* INSTALLATION TIME BASED UPON A 2 PERSON CREW

CAT® WHEEL LOADER KITS



CAT® 950 M 962M 966M 972M

24 LUBRICATION POINTS

INSTALLATION ESTIMATE 24 HOURS*

STANDARD KIT NO: LORK-CAT-950M-972M-STD

PREMIUM KIT NO:

LORK-CAT-950M-972M-PREM



CAT® 980M

29 LUBRICATION POINTS

INSTALLATION ESTIMATE 28 HOURS*

STANDARD KIT NO: LORK-CAT-980KM-STD

PREMIUM KIT NO: LORK-CAT-980KM-PREM



CAT® 988M

22 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-CAT-988KM-STD

PREMIUM KIT NO:

LORK-CAT-988KM-PREM

CAT® ARTICULATED TRUCK KITS



CAT® 725 740

22 LUBRICATION POINTS

INSTALLATION ESTIMATE 18 HOURS*

STANDARD KIT NO: LORK-CAT-725-740-STD

PREMIUM KIT NO: LORK-CAT-725-740-PREM

CAT® IS A REGISTERED TRADEMARK OF CATERPILLAR NO COPYRIGHT INFRINGEMENT IS INTENDED

* INSTALLATION TIME BASED UPON A 2 PERSON CREW

BULLETIN: LSM036 - CAT RELEASE DATE: 05/07/2019

CAT® DOZER KITS



CAT® D6T

29 LUBRICATION POINTS

INSTALLATION ESTIMATE 24 HOURS*

STANDARD KIT NO:

LORK-CAT-D6T-STD

PREMIUM KIT NO:

LORK-CAT-D6T-PREM



CAT® D8T

18 LUBRICATION POINTS

INSTALLATION ESTIMATE 16 HOURS*

STANDARD KIT NO: LORK-CAT-D8T-STD

PREMIUM KIT NO:

LORK-CAT-D8T-PREM



CAT® D9T D10T

18 LUBRICATION POINTS

INSTALLATION ESTIMATE 16 HOURS*

STANDARD KIT NO: LORK-CAT-D9T-D10T-STD

PREMIUM KIT NO:

LORK-CAT-D9T-D10T-PREM



CAT® D11

18 LUBRICATION POINTS

INSTALLATION ESTIMATE 16 HOURS*

STANDARD KIT NO: LORK-CAT-D11-STD

PREMIUM KIT NO:

LORK-CAT-D11-PREM

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* INSTALLATION TIME BASED UPON A 2 PERSON CREW

CAT® PAVER KITS



CAT® AP555

16 LUBRICATION POINTS

INSTALLATION ESTIMATE 16 HOURS*

STANDARD KIT NO: LORK-CAT-AP555-STD

PREMIUM KIT NO:

LORK-CAT-AP555-PREM



CAT® AP1055

16 LUBRICATION POINTS

INSTALLATION ESTIMATE 16 HOURS*

STANDARD KIT NO: LORK-CAT-AP1055-STD

PREMIUM KIT NO:

LORK-CAT-AP1055-PREM



CAT® 538 558 568

19 LUBRICATION POINTS

INSTALLATION ESTIMATE 18 HOURS*

STANDARD KIT NO: LORK-CAT-538-568-STD

PREMIUM KIT NO:

LORK-CAT-538-568-PREM

CAT® IS A REGISTERED TRADEMARK OF CATERPILLAR NO COPYRIGHT INFRINGEMENT IS INTENDED

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DEERE-HITACHI® SERIES PROGRESSIVE OFF-ROAD LUBRICATION KITS



READY FOR IMMEDIATE SHIPMENT

MADE IN



WWW.LUBRICATIONSCIENTIFICS.COM

Drastically cut maintenance and repair costs and maximize machine life by automatically supplying lubricant in small amounts at controlled intervals, guaranteeing sufficient lubrication when it is needed the most - while they are in operation.

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- WIRE LOOMS
- CLAMPS
- ZIP TIES
- SPIRAL WRAP
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- GREASE FILLED HOSE
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- DISTRIBUTION VALVE SCHEMATIC
- INSTALLATION GUIDE

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LCPR-60-E24DC W 60LB RESERVOIR

ADD A SYSTEM DOWNSTREAM FILTER

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BULLETIN: LSM036 - HJD RELEASE DATE: 05/07/2019

FILTRATION OPTIONS AND UPGRADES

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OUR REMOTE FILL FILTER IS THE ENEMY OF CONTAMINATION.



HITACHI® EXCAVATOR KITS



HITACHI® ZX85

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-HJD-85G-ZX85-STD

PREMIUM KIT NO:

LORK-HJD-85G-ZX85-PREM



HITACHI® ZX135

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-HJD-135G-ZX135-STD

PREMIUM KIT NO:

LORK-HJD-135G-ZX135-PREM



HITACHI® ZX245

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-HJD-245G-ZX245-STD

PREMIUM KIT NO:

LORK-HJD-245G-ZX245-PREM



HITACHI® ZX300-ZX380

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-HJD-300-380GZX-STD

PREMIUM KIT NO:

LORK-HJD-300-380GZX-PREM

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HITACHI® EXCAVATOR KITS (CONTINUED)



HITACHI® ZX470-ZX800

24 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO:

LORK-HJD-470-800GZX-STD

PREMIUM KIT NO:

LORK-HJD-470-800GZX-PREM

JOHN DEERE® WHEEL LOADER KITS



IOHN DEERE® 524K 724K

22 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-JD-524K-724K-STD

PREMIUM KIT NO: LORK-JD-524K-724K-PREM



JOHN DEERE® 844K 944K

29 LUBRICATION POINTS

INSTALLATION ESTIMATE 24 HOURS*

STANDARD KIT NO: LORK-JD-844-944K-STD

PREMIUM KIT NO:

LORK-JD-844-944K-PREM

JOHN DEERE® GRADER KITS



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JOHN DEERE® 722GP 872GP

27 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-JD-772GP-872GP-STD

PREMIUM KIT NO: LORK-JD-772GP-872GP-PREM

FRE & COMPANY

* INSTALLATION TIME BASED UPON A 2 PERSON CREW

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BULLETIN: LSM036 - HJD RELEASE DATE: 05/07/2019

JOHN DEERE® DOZER KITS



JOHN DEERE® 450 650

24 LUBRICATION POINTS

INSTALLATION ESTIMATE 24 HOURS*

STANDARD KIT NO:

LORK-JD-450-650-STD

PREMIUM KIT NO:

LORK-JD-450-650-PREM



JOHN DEERE® 750 850

29 LUBRICATION POINTS

INSTALLATION ESTIMATE 26 HOURS*

STANDARD KIT NO: LORK-JD-750-850-STD

PREMIUM KIT NO:

LORK-JD-750-850-PREM



JOHN DEERE® 1050

24 LUBRICATION POINTS

INSTALLATION ESTIMATE 24 HOURS*

STANDARD KIT NO: LORK-JD-1050-STD

PREMIUM KIT NO:

LORK-JD-1050-PREM

JOHN DEERE® EXCAVATOR KITS



JOHN DEERE® 85G

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-JD-85G-ZX85-STD

PREMIUM KIT NO:

LORK-JD-85G-ZX85-PREM

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JOHN DEERE® EXCAVATOR KITS



JOHN DEERE® 135G

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-JD-135G-ZX135-STD

PREMIUM KIT NO: LORK-JD-135G-ZX135-PREM



JOHN DEERE® 245G

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-JD-245G-ZX245-STD

PREMIUM KIT NO: LORK-JD-245G-ZX245-PREM



JOHN DEERE®

300G-380G23 LUBRICATION POINTS

INSTALLATION ESTIMATE 22 HOURS*

STANDARD KIT NO: LORK-JD-300-380GZX-STD

PREMIUM KIT NO:

LORK-JD-300-380GZX-PREM



JOHN DEERE® 470G-800G

24 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-JD-470-800GZX-STD

PREMIUM KIT NO: LORK-JD-470-800GZX-PREM

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JOHN DEERE® LOG LOADER KITS



JOHN DEERE® 2154G 3756G

17 LUBRICATION POINTS

INSTALLATION ESTIMATE 16 HOURS*

STANDARD KIT NO: LORK-JD-2154-3756G-STD

PREMIUM KIT NO:

LORK-JD-2154-3756G-PREM

JOHN DEERE® FELLER BUNCHER KITS



JOHN DEERE® 830M 959M

18 LUBRICATION POINTS

INSTALLATION ESTIMATE 16 HOURS*

STANDARD KIT NO: LORK-JD-803-959M-STD

PREMIUM KIT NO:

LORK-JD-803-959M-PREM

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KOBELCO® SERIES PROGRESSIVE OFF-ROAD LUBRICATION KITS



READY FOR IMMEDIATE SHIPMENT

MADE IN



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Drastically cut maintenance and repair costs and maximize machine life by automatically supplying lubricant in small amounts at controlled intervals, guaranteeing sufficient lubrication when it is needed the most - while they are in operation.

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- WIRE LOOMS
- CLAMPS
- ZIP TIES
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LCPR-60-E24DC W 60LB RESERVOIR

ADD A SYSTEM DOWNSTREAM FILTER

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- 2) Available in 40 and 100 MESH, our filter kit includes the filter mounting bar (Weld type) and a filter fill stud kit for safe manual lubrication during system startup or pump failure.



BULLETIN: LSM036 - KOBELCO RELEASE DATE: 05/08/2019

KOBELCO® EXCAVATOR KITS



KOBELCO® SK140 SK210

19 LUBRICATION POINTS

INSTALLATION ESTIMATE 19 HOURS*

STANDARD KIT NO: LORK-KOB-SK140-210-STD

PREMIUM KIT NO:

LORK-KOB-SK140-210-PREM



KOBELCO® SK300 SK350

19 LUBRICATION POINTS

INSTALLATION ESTIMATE 19 HOURS*

STANDARD KIT NO: LORK-KOB-SK300-350-STD

PREMIUM KIT NO:

LORK-KOB-SK300-350-PREM

NOTES

KOBELCO® IS A REGISTERED TRADEMARK OF KOBELCO CONSTRUCTION MACHINERY U.S.A INC. NO COPYRIGHT INFRINGEMENT IS INTENDED

* INSTALLATION TIME BASED UPON A 2 PERSON CREW

5

BULLETIN: LSM036 - KOBELCO RELEASE DATE: 05/08/2019



KOMATSU® SERIES PROGRESSIVE OFF-ROAD LUBRICATION KITS



READY FOR IMMEDIATE SHIPMENT

MADE IN



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LCPR-60-E24DC W 60LB RESERVOIR

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BULLETIN: LSM036 - KOMATSU RELEASE DATE: 05/08/2019

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KOMATSU® EXCAVATOR KITS



KOMATSU® PC138-PC210

20 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-KOM-PC138-210-STD

PREMIUM KIT NO: LORK-KOM-PC138-210-PREM



KOMATSU® PC228 PC390

20 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS*

STANDARD KIT NO: LORK-KOM-PC228-390-STD

PREMIUM KIT NO: LORK-KOM-PC228-390-PREM



KOMATSU® PC400 PC890

19 LUBRICATION POINTS

INSTALLATION ESTIMATE 19 HOURS*

STANDARD KIT NO: LORK-KOM-PC400-890-STD

PREMIUM KIT NO: LORK-KOM-PC400-890-PREM



KOMATSU® PC1250

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 23 HOURS*

STANDARD KIT NO: LORK-KOM-PC1250-STD

PREMIUM KIT NO: LORK-KOM-PC1250-PREM

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* INSTALLATION TIME BASED UPON A 2 PERSON CREW

BULLETIN: LSM036 - KOMATSU RELEASE DATE: 05/08/2019

KOMATSU® WHEEL LOADER KITS



KOMATSU® WA210 WA380

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 20 HOURS

STANDARD KIT NO:

LORK-KOM-WA210-WA380-STD

PREMIUM KIT NO:

LORK-KOM-WA210-WA380-PREM



STANDARD KIT NO:

KOMATSU® WA470 WA500 LORK-KOM-WA470-WA500-STD

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 23 HOURS*

PREMIUM KIT NO:

LORK-KOM-WA470-WA500-PREM



KOMATSU® WA600

23 LUBRICATION POINTS

INSTALLATION ESTIMATE 23 HOURS*

STANDARD KIT NO:

LORK-KOM-WA600-STD

PREMIUM KIT NO:

LORK-KOM-WA600-PREM

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