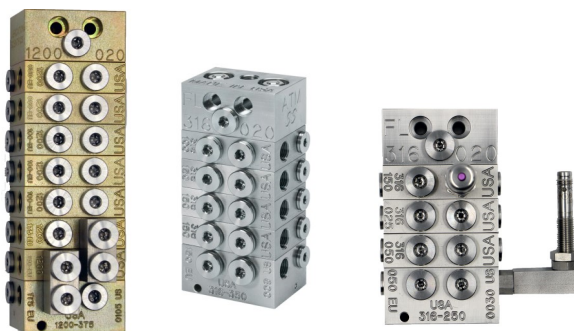
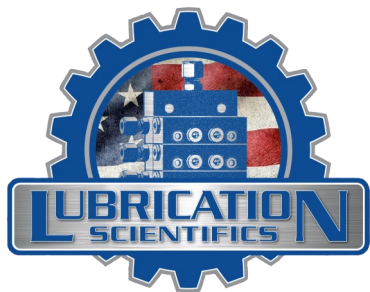


LUBRICATION SCIENTIFICS, LLC

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



**ORFL SERIES PROGRESSIVE DIVIDER VALVE SYSTEMS
VERSATILE MINIATURE VALVES—CRITICAL MONITORING—ACCESSORIES**



ORFL SERIES PROGRESSIVE DIVIDER VALVES

PRODUCT DESCRIPTION

CARBON & 303, 316 STAINLESS STEEL DIVIDER VALVES

SMALL FOOT PRINT, STANDARD PRESSURE

SERIES PROGRESSIVE DESIGN WITH FEEDBACK FOR MONITORING SYSTEM PERFORMANCE

INTERNAL CHECK VALVES INCLUDED KEEPING LINES FULL OF LUBRICANT

DESIGNED FOR OIL AND GREASE SYSTEMS

ALTERNATE OUTPUTS ACCEPTS STANDARD PERFORMANCE INDICATORS AND FITTINGS

USE FOR OFFROAD, INDUSTRIAL, MARINE & FOOD PROCESSING MACHINERY

BENEFITS & FEATURES

COMPACT, LIGHT WEIGHT DESIGN

INDUSTRY EXCLUSIVE SIDE & FRONT FACING ALTERNATE OUTPUT PORTS

INTERNAL CHECK VALVES (316 SS BALLS & SPRINGS)

CARBON STEEL, 303 & 316 STAINLESS STEEL CONSTRUCTION AVAILABLE

FOR STANDARD PRESSURE OIL OR GREASE APPLICATIONS

1-24 LUBE POINTS PER VALVE ASSEMBLY

WIDE RANGE OF PERFORMANCE ACCESSORIES AVAILABLE FOR ANY SYSTEM REQUIREMENT

READY FOR IMMEDIATE SHIPMENT

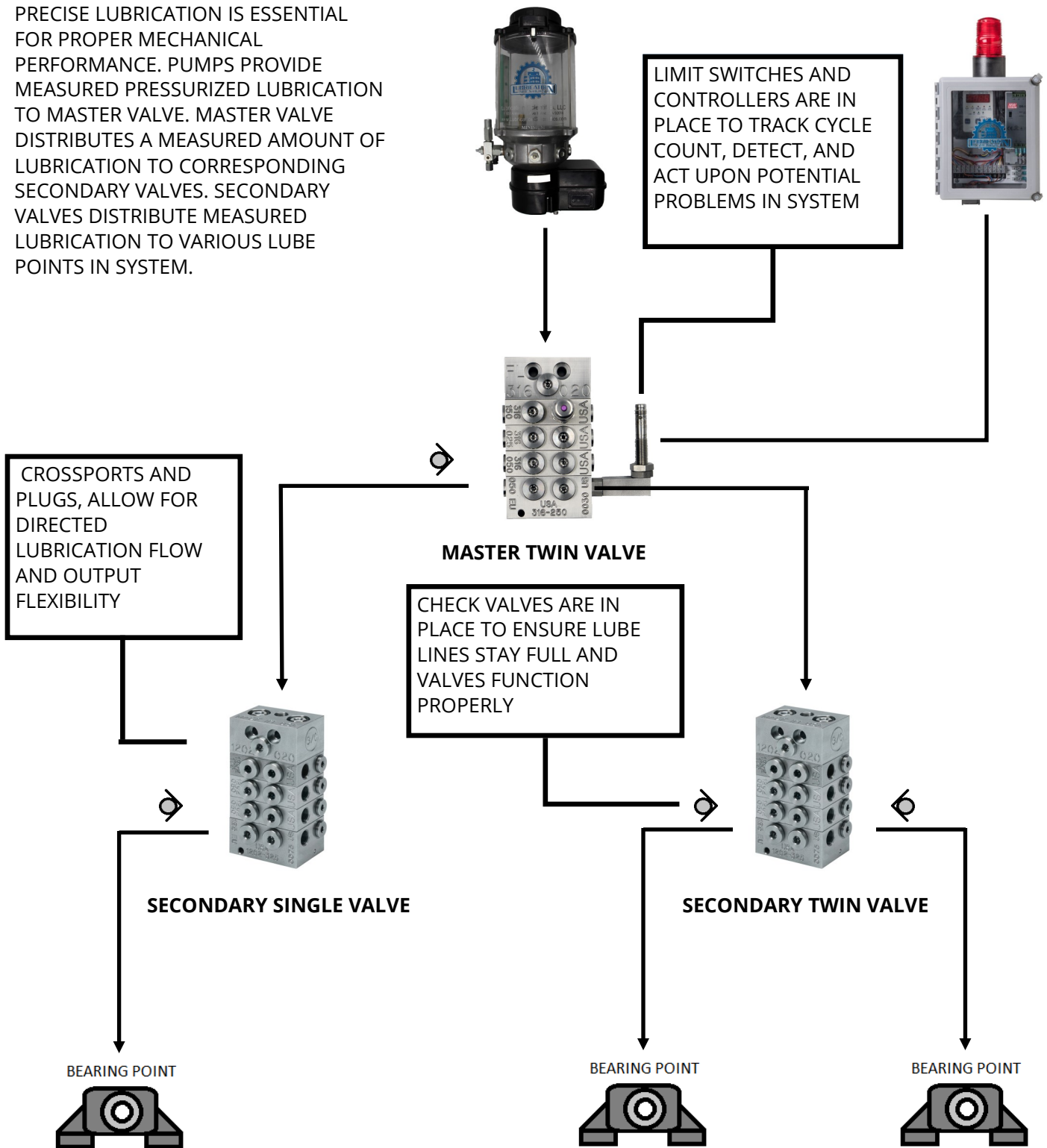
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FUNCTION ILLUSTRATION & SPECIFICATIONS

PRECISE LUBRICATION IS ESSENTIAL FOR PROPER MECHANICAL PERFORMANCE. PUMPS PROVIDE MEASURED PRESSURIZED LUBRICATION TO MASTER VALVE. MASTER VALVE DISTRIBUTES A MEASURED AMOUNT OF LUBRICATION TO CORRESPONDING SECONDARY VALVES. SECONDARY VALVES DISTRIBUTE MEASURED LUBRICATION TO VARIOUS LUBE POINTS IN SYSTEM.



ORDERING INFORMATION & PART NUMBERS

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



ORDERING INFORMATION & PART NUMBERS



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	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

ORDERING INFORMATION & PART NUMBERS



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** CYCLE INDICATOR PIN ADD SUFFIX: -LSW

EXAMPLE: FL316-350US-RHCIP-LSW



ORDERING INFORMATION & PART NUMBERS

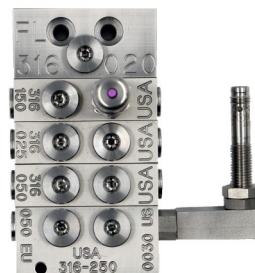
ORFL WORKING END SECTIONS W/ CIP

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



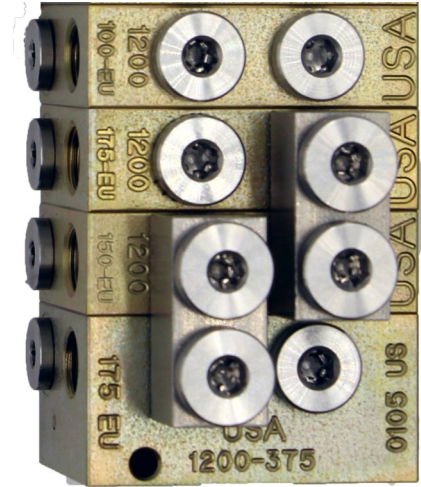
PROXIMITY SWITCH CABLES

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

ORDERING INFORMATION & PART NUMBERS

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—NUT & LOCKWASHER INCLUDED

ONE TIE ROD PER KIT

TWO KITS PER VALVE ASSEMBLY REQUIRED

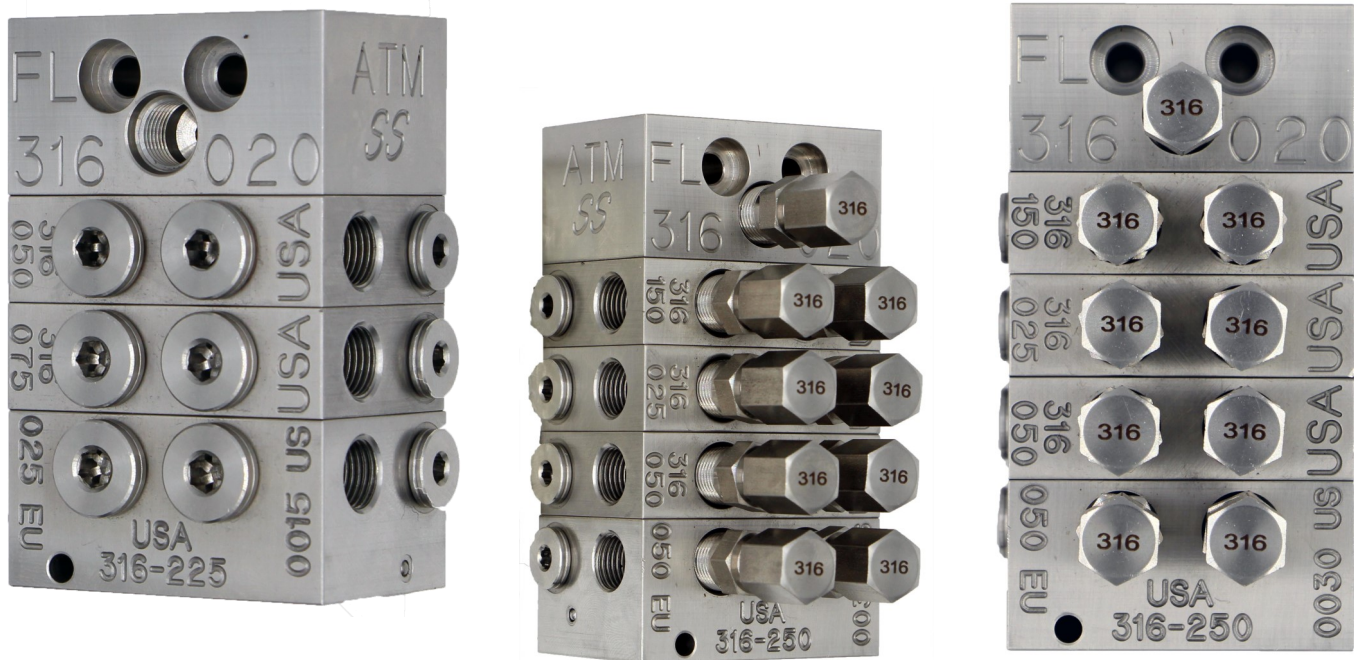


STANDARD PACK: 1 KIT		
VALVE ASSEMBLY SECTIONS	303 STAINLESS STEEL	316 STAINLESS STEEL
3 SECTIONS	1202-403	FL316-403
4 SECTIONS	1202-404	FL316-404
5 SECTIONS	1202-405	FL316-405
6 SECTIONS	1202-406	FL316-406
7 SECTIONS	1202-407	FL316-407
8 SECTIONS	1202-408	FL316-408
9 SECTIONS	1202-409	FL316-409
10 SECTIONS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

ORDERING INFORMATION & PART NUMBERS

ORFL FILL FITTINGS

FILL FITTING FOR ABILITY TO MANUALLY LUBRICATE
BLOCKS IN CASE OF A PUMP FAILURE
AVAILABLE IN 303 & 316 STAINLESS STEEL



STANDARD PACK: 1		
DESCRIPTION	MODEL NUMBER	MATERIAL
FILL STUD 1/8—27 NPS O-RING SEALED	L90471-ORS-303	303 STAINLESS
FILL STUD 1/8—27 NPS O-RING SEALED	L90471-ORS-316	316 STAINLESS
LEAK PROOF FILL STUD W/ INTERNAL CHECK 1/8—27 NPS O-RING SEALED	L90471-ORS-LP-303	303 STAINLESS
LEAK PROOF FILL STUD W/ INTERNAL CHECK 1/8—27 NPS O-RING SEALED	L90471-ORS-LP-316	316 STAINLESS
1/8-27 NPTF	L90471-NPTF-303	303 STAINLESS
1/8-27 NPTF	L90471-NPTF-316	316 STAINLESS
FILL STUD W/ INTERNAL CHECK 1/8—27 NPSTF	L90471-NPTF-LP-	303 STAINLESS
FILL STUD W/ INTERNAL CHECK 1/8—27 NPSTF	L90471-NPTF-LP-	316 STAINLESS
#4 JIC X 1/8-27NPTF	L90471-JIC-303	303 STAINLESS
#4 JIC X 1/8-27NPTF	L90471-JIC-316	316 STAINLESS
316 STAINLESS STEEL INLET FILL SCREEN	100	

FUNCTION ILLUSTRATION & SPECIFICATIONS

Major Benefits when utilizing ORFL Fill Fittings

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

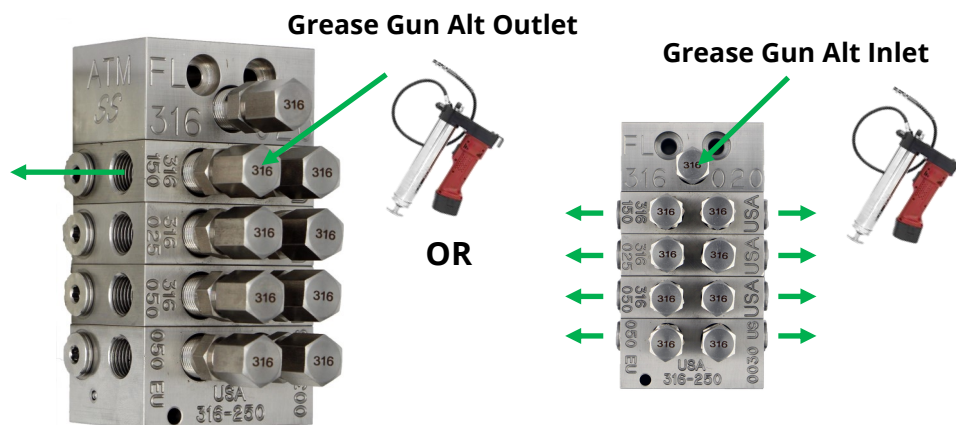
- **FILL FITTINGS THAT CONTAIN NO INTERNAL COMPONENTS**—No damage can be done to valve or downstream machinery from high pressure surge from a grease gun. High surges can blow the guts out of a normal ZERK Fitting
- **FILL FITTINGS ARE ZERO LEAK**—Uses 1/8-27 SAE type O-ring (ORS) connection. This connection cannot damage port threads
- **ORFL VALVES HAVE INTERNAL CHECK VALVES**—Grease Gun Lubrication WILL NOT damage valve or lubrication system.
- **FILL FITTINGS WITH INTERNAL CHECKS**—**TO PREVENT DAMAGE TO CHECKED MANUAL FILL FITTINGS DO NOT EXCEED 3,000PSI MAX MANUAL FILL PUMP PRESSURE!!**

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 pre-filled.
- **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



ORDERING INFORMATION & PART NUMBERS

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	N/A	
M10 X 1.0 CONNECTOR	FITTING/FERRULE FOR 6MM TUBING	1202-401-6MK	FL316-401-6MK		
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	
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

ORDERING INFORMATION & PART NUMBERS

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 69 BAR	303-P1000	316-P1000
1,500 PSI 103 BAR	303-P1500	316-P1500
2,000 PSI 138 BAR	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



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 PLAIN NUT W/ 1/4" APERTURE	BOF-LP-303-NPTF BOF-LP-303-ORS	BOF-LP-316-NPTF BOF-LP-316-ORS
LOW PRESSURE 1/8" NPSF SPUD NUT W/ 1/4" APERTURE	BOF-LP-303R-NPTF BOF-LP-303R-ORS	BOF-LP-316R-NPTF BOF-LP-316R-ORS
HIGH PRESSURE 1/8" NPSF PLAIN NUT W/ 1/8" APERTURE	BOF-HP-303-NPTF BOF-HP-303-ORS	BOF-HP-316-NPTF BOF-HP-316-ORS
HIGH PRESSURE 1/8" NPSF SPUD NUT W/ 1/8" APERTURE	BOF-HP-303R-NPTF BOF-HP-303R-ORS	BOF-HP-316R-NPTF 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

ORDERING INFORMATION & PART NUMBERS

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) (1/4" APERTURE FITTING)	HIGH PRESSURE BURST (PSI) (1/8" APERTURE FITTING)	PART NUMBER
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

ORDERING INFORMATION & PART NUMBERS

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
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 100 MESH	DT-EL-002-100M
420 MICRON 40 MESH	DT-EL-002-40M

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



ORDERING INFORMATION & PART NUMBERS

ANCHOR BLOCKS

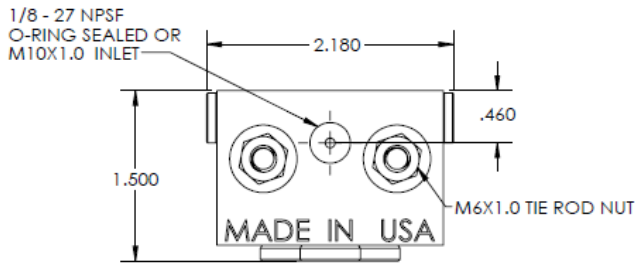
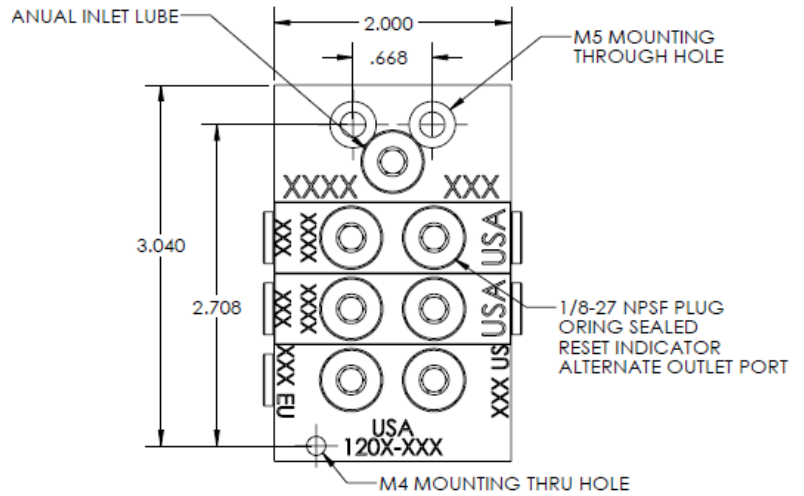
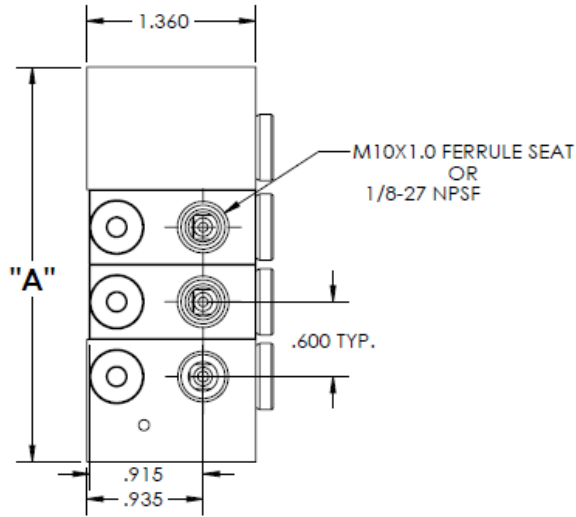
STANDARD PACK: 5 EACH			
PRODUCT DESCRIPTION	CARBON STEEL	303 STAINLESS STEEL	316 STAINLESS STEEL
4 WAY CROSS 1/8 NPSF (X4) 9/32 MTG HOLE	L509189-000	L509189-303	L509189-316
4 WAY CROSS 1/4 NPSF (X4) 9/32 MTG HOLE	L509188-000	L509188-303	L509188-316
5 WAY CROSS 1/4 NPSF (X4) 1/8 NPSF (X1) 9/32 MTG HOLE	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

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



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

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

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

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.

STEP 1: REMOVE LEFT **ALTERNATE OUTLET PLUG** TO ACCESS INTERNAL CHECK HARDWARE. USE 3/16" ALLEN. **FIG. 1**

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

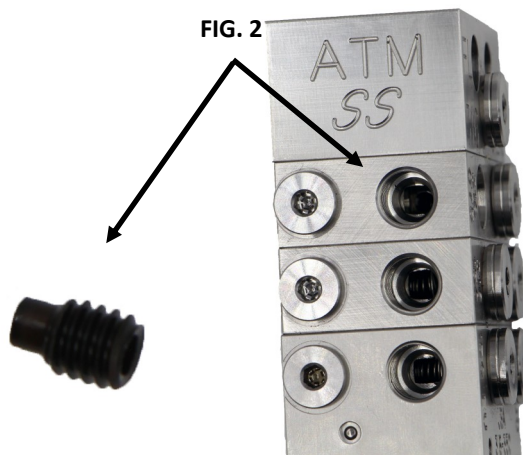
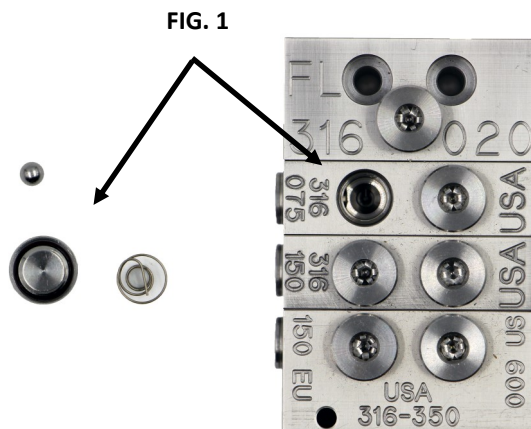
STEP 3: TURN VALVE ON ITS SIDE, LOOK THROUGH OUTLET PORT TO NOTICE A BLACK SET SCREW IN CENTER OF PORT. REMOVE SET SCREW USING 5/64" ALLEN. **FIG. 2**

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



ORFL FEEDER PART NUMBER ORDERING GUIDE

ORFL-XXX-XXX-XXX-XXXXX

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

ORFL-XXX- XXX -XXX-XXXXX	
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- XXX -XXXXX	
INSTALLED ACCESSORIES (OMIT IF NOT REQUIRED)	P/N
NO INTERNAL CHECK VALVES	X
EXTERNAL CHECK VALVES	C
PERFORMANCE INDICATORS	P
PERFORMANCE INDICATORS & CHECK VALVES	B

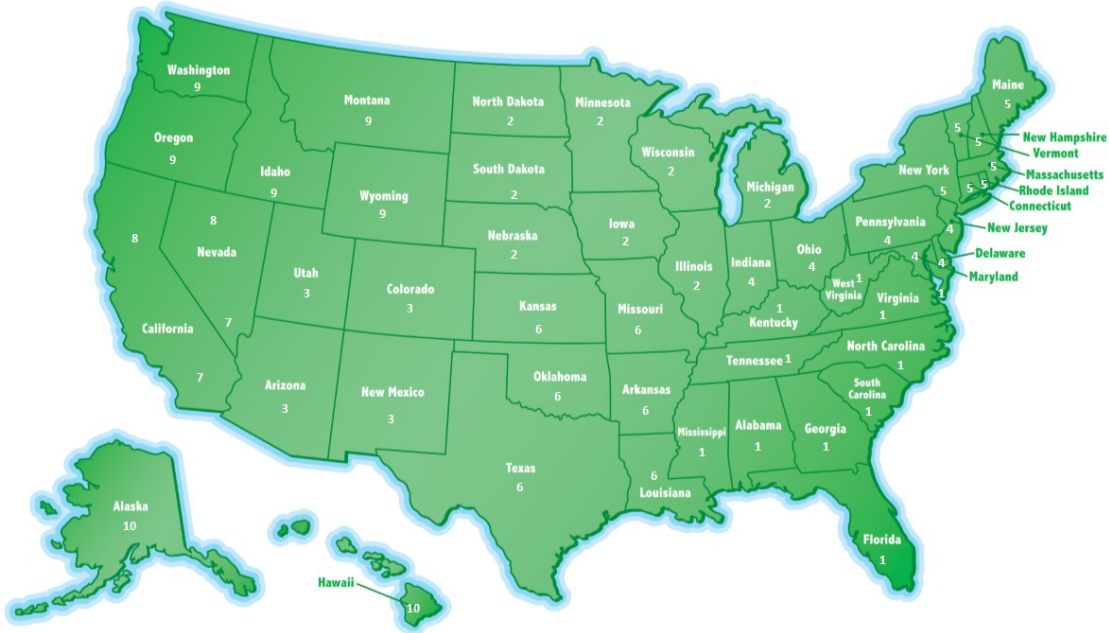
ORFL-XXX-XXX-XXX- XXXXX	
TYPE OF SECTION	P/N
TWIN	T
SINGLE, RH OUTLET	S
SINGLE, LH OUTLET	L
TWIN, CIP RIGHT	B
SINGLE, CIP RIGHT, RH OUTLET	C
SINGLE, CIP RIGHT, LH OUTLET	D
TWIN, CIP LEFT	H
SINGLE, CIP LEFT, RH OUTLET	J
SINGLE, CIP LEFT, LH OUTLET	K

ORFL-XXX-XXX- 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
TWELVE	12

ORFL-XXX-XXX-XXX- XXXXX	
CROSSPORT OPTION	P/N
RIGHT SIDE	CR
LEFT SIDE	CL
BOTH SIDES	CB

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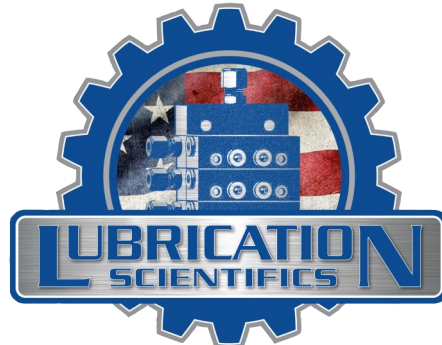


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