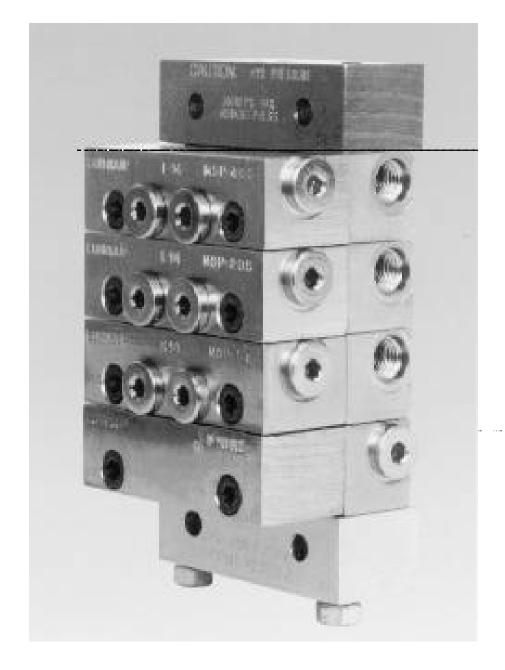




Your key to maximum design flexibility with seriesprogressive reliability.



### Match lubricant flow to the exact needs of each point.

- Precise monitoring, positive feedback
- · Simple to install and operate
- Modular design for total flexibility

## THE FLEXIBLE, MODULAR MSP DIVIDER VALVE

 For grease or oil systems up to 3,500 psi (24,100 kPa)

- Lubricate up to 16 points per valve assembly
- Choice of SAE, NPSF, or BSPP inlet/outlet connections
- 0-ring sealing prevents leaks, reduces maintenance
- Valve outputs vary by a maximum ratio of 32:1

- Built-in check valves prevent lube re-entry and help keep lines full
- Stackable design simplifies installation, adds flexibility

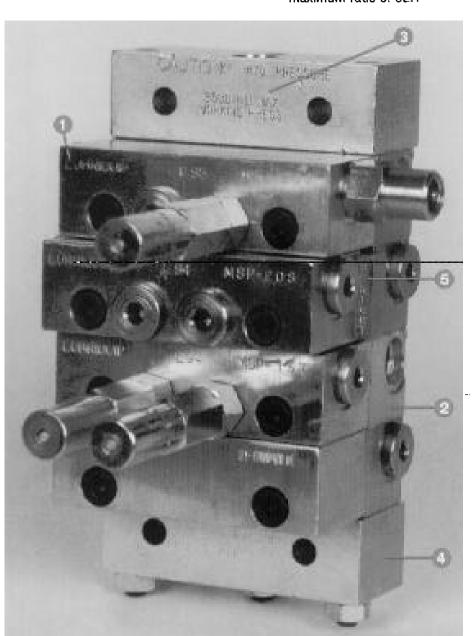
Each assembly includes: (1) *valve* sections with working piston (3 minimur (2) subplates with outlet ports, (3) inlet section, and (4) end section.

Twin piston sections are ported to create separate outputs for two lube

points. *Single* sections *combine* the output from both ends of the piston and send it to a single lube point.

Field-installable *crossport* or *singling* plates (5) may be used to increase the flow to a single point or accommoda an odd number of lube points.

A *bypass section* is available to eliminate a piston section or provide for added tube points in the future.



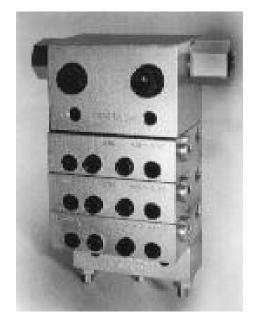
### Improve matchup of lube delivery and machine usage.

- Better control of extensive systems
- Choice of SAE, NPSF, BSPP connection
- In-line or remote mounting

#### SPECIAL INLET SECTIONS

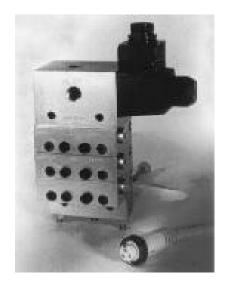
- Allow zoning of large systems served by single pump and reservoir
- Choice of inlet port activation: electric or pneumatic
- Simpler to install, add or remove points

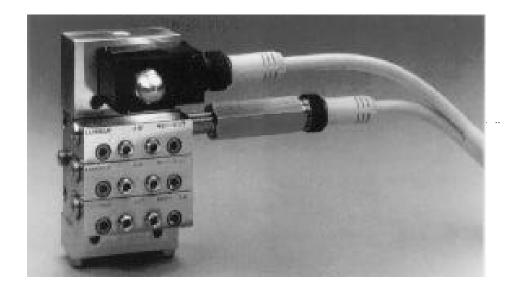
These versatile inlets provide positive, series-progressive lubrication for extended lines and systems. You easily match lube delivery to machine usage, bypass machinery that's not currently in use, and get reliable start-up testing, monitoring, and fault detection.



Reversing Inlet Section. Hydraulically activated, it is used with a separate, hydraulically-controlled reverser valve to serve large zoned systems without need for electrical solenoid valves.

Shunt Inlet Section. A three-function valve, either electric or pneumatic, (1) allows lubricant to enter divider valve, (2) bypasses it to another divider valve or (3) diverts it back to tank. Replace standard inlet or mount in-line with remote manifold kit.





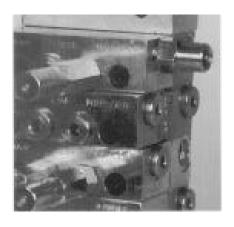
**Zero-Leak Inlet Shut-off.** A two-way valve that can be used with either continuous or intermittent pressurized header systems. Replaces a standard inlet section or mounts in-line with a remote manifold kit.

# A wide variety of safeguards monitor and verify lube cycles.

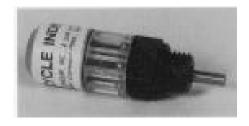
- Track valve-piston action
- · Easily interfaced to system controller

#### **CYCLE INDICATORS**

These mechanical and electrical units sense the divider valve piston's action for accurate control and monitoring of lube cycles.



- Cycle Indicator Pin. Valve sections are available with a factory-installed indicator pin which moves in and out as lubricant passes through the valve.
- Universal Cycle Counter.
   Six-digit counter displays each complete cycle of the divider valve. Requires divider valve section with indicator pin (described above).
   Part number: 527-002-410.



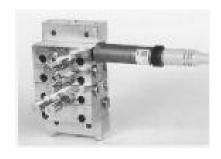
Magnetic Visual Indicator.
 Six steel balls in a clear sleeve follow a magnet which moves with the cycling piston, providing a clear visual indication of lube cycles. Part number: with "O" ring, 509-932-522; with crush gasket, 509-932-521.



 Cycle Indicator Switch. Used in conjunction with the cycle indicator pin, it provides an electrical signal to the system



controller which counts cycles to monitor and verify completion of the lube cycle. Part number: 510-599-000. A moisture-resistant switch, 510-522-200, is also available.



- LED Field-sensitive Proximity
  Switch. This 24 VDC device magnetically senses the movement of the piston, triggering the switch and illuminating the LED. Part numbers: 3-pin with "0" ring, 527-005-690; with crush gasket, 527-005-680; 5-pin with "0" ring, 527-005-670; with crush gasket, 527-005-620.
- Field-sensitive Proximity
  Switch. A ceramic-magnet
  switch for grease or oil systems.
  up to 200 cpm at pressure up to
  3,500 psi (24,100 kPa), accurately
  signals piston cycles, and is ideal
  for high-cycle applications. Part
  numbers: 3-pin with "0" ring,
  527-003-251; 5-pin with "0" ring,
  527-004-111; Explosion-proof
  with "0" ring, 527-003-431.
- Connecting Cables. Brad
   Harrison mating cables with
   either 3- or 5-pin connectors are
   available in 12-ft. (3.65 m)

   lengths for the F/S proximity

## Choice of indicators offer automatic system protection and fault location.

- Immediate response to blockages
- Manual or automatic reset
- Continues to serve unaffected points

#### PERFORMANCE INDICATORS

These vital safeguards react to excess lube pressure when points or lines become blocked. Installed in indicator ports on the working piston sections, they quickly identify the affected lines.

 Automatic Relief-to-Atmosphere Indicator.

Spring-loaded piston unseats when blockage occurs, venting lubricant to atmosphere each time piston cycles. Allows system to keep lubricating unaffected points. When blockage is cleared, reseats automatically.

Part Number	Relief Pressure
508-310-415	750 psi (5,200 kPa)
508-310-425	1,000 psi (6,900 kPa)
508-310-435	1,250 psi (8,600 kPa)
508-310-445	1,500 psi (10,300 kPa)
508-310-455	2,000 psi (13,800 kPa)
508-310-465	2,500 psi (17,200 kPa)
508-310-475	3,000 psi (20,700 kPa)

 Manual Reset Indicator with Memory. System blockage triggers a spring-loaded piston to display an indicator. Since there is no relief, pressure backs up in the system and the system stops, allowing a controller to alarm. After correction, spring automatically resets the piston, indicator pin is reset manually.

Part Number	Relief Pressure
509-932-590	250 psi (1,700 kPa)
509-932-600	500 psi (3,400 kPa)
509-932-610	750 psi (5,200 kPa)
509-932-620	1,000 psi (6,900 kPa)
509-932-630	1,500 psi (10,300 kPa)
509-932-640	2,000 psi (13,800 kPa)
509-932-650	2,500 psi (17,200 kPa)



Automatic Rakef-to-Atmosphere Indicator



Manual Reset Indicator with Memory

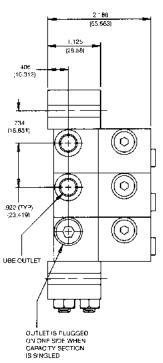
# Designed with over 90 years experience in centralized lubrication.

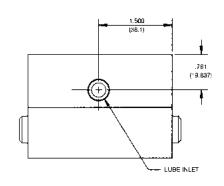
- Engineering certified to ISO 9001 Standards
- · Modular design for maximum flexibility
- Install and maintain without disturbing lube lines

#### **QUALITY DESIGN**

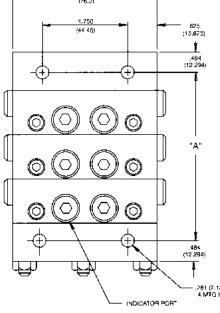
#### **TOP VIEW**

## SIDE VIEW





#### **FRONT VIEW**



#### MSP DIVIDER SPECIFICATIONS

Standard Material	Corrosion Protected Steel
Optional Material	Nickel Plated Steel
Pressure (Max.)	3,500 psi (24,100 kPa)
Lubricant	Oil or Grease

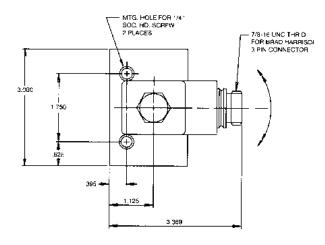
Net Weigh	t					Lbs.	(kg)
3-section	Divi	der	<b>Valve</b>	Asse	mbly	5.9	(2.7)
4-section	66	ĸ	+6	44	и	7.3	(3.3)
5-section	14	"	46	"	í.	8.7	(4.0)
6-section	14	íı	44	66	í.	10.2	(4.6)
7-section	14	íı	"	**	16	11.6	(5.6)
8-section	14	a	41	66	"	13.0	(5.9)

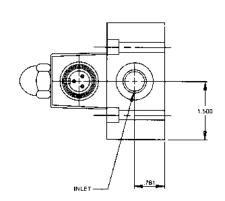
Max. Operating Temperature

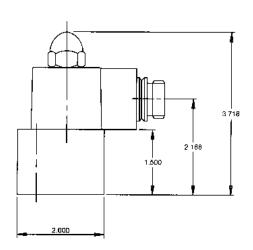
Buna-N O-rings	200° F (93° (	C)
Viton O-rings	350° F (163° (	C)

QTY, OF SECTIONS	"A"
3	3.578 (90.881)
4	4.500 (114.30)
5	5.422 (137.718)
6	6.344 (161.138)
7	7.266 (184.556)
8	8.188 (207.975)

### ZERO LEAK INLET SHUT-OFF VALVE

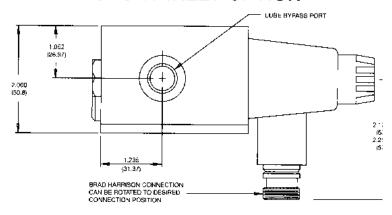


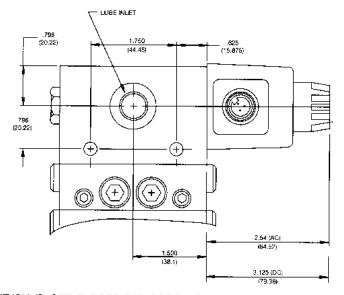




ZERO LEAK ELECTRICAL SPECIFICATIONS 115 VAC, .22 A IN-RUSH, .14 A HOLDING 24 VDC, 28 W

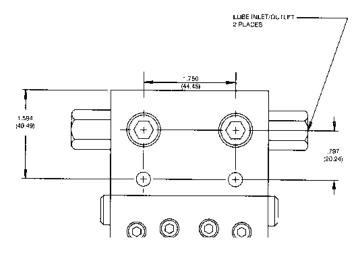
#### SHUNT INLET OPTION





SHUNT/SHUT-OFF ELECTRICAL SPECIFICATIONS 115 VAC, 1.6 A IN-RUSH, .54 A HOLDING 24 VDC, 28 W

#### REVERSIBLE FEEDER INLET



### You can easily configure the system to the need.

- Custom performance from stock modules
- · Choice of Single or Twin outlets

### SPECIFYING GUIDE - MSP DIVIDER VALVE Component Identification and Ordering Information\*

'arts List Key	Size	Description	Displacement in.3 cm 3	Buna-N Seal Part No.	With Cycle Pin (Rt. Side) Buna-N Seals Part No.	With Prox. Switch & Cycle Pin (Rt. Side Part No.)
1		Valve Sections				
	5T 5S	.005 Twin Outlet .005 Single Outlet	0.005 0.082 0.010 0.164	106-100-175 106-100-015		106-104-675 106-104-645
	10T 10S	.010 Twin Outlet .010 Single Outlet	0.010 0.164 0.020 0.328	106-100-185 106-100-025		106-104-685 106-104-655
	15T 15S	.015 Twin Outlet .015 Single Outlet	0.015 0.246 0.030 0.492	106-100-195 106-100-035		106-104-695 106-104-665
	20T 20S	.020 Twin Outlet .020 Single Outlet	0.020 0.328 0.040 0.656	106-100-205 106-100-045	106-100-935 106-100-735	106-100-535 106-100-335
	25T 25S	.025 Twin Outlet .025 Single Outlet	0.025 0.410 0.050 0.820	106-100-215 106-100-055	106-100-945 106-100-745	106-100-545 106-100-345
	30T 30S	.030 Twin Outlet .030 Single Outlet	0.030 0.492 0.060 0.983	106-100-225 106-100-065	106-100-955 106-100-755	106-100-555 106-100-355
	35T 35S	.035 Twin Outlet .035 Single Outlet	0.035 0.574 0.070 1.148	106-100-235 106-100-075	106-100-965 106-100-765	106-100-565 106-100-365
	40T 40S	.040 Twin Outlet .040 Single Outlet	0.040 0.656 0.080 1.311	106-100-245 106-100-085	106-100-975 106-100-775	106-100-575 106-100-375

Parts List Key	Description	1/8-27 NPSF Part No.	7/16-20 SAE Part No.	1/8-28 BSPP Part No.
2	Subplate	527-000-311	527-003-550	527-003-140

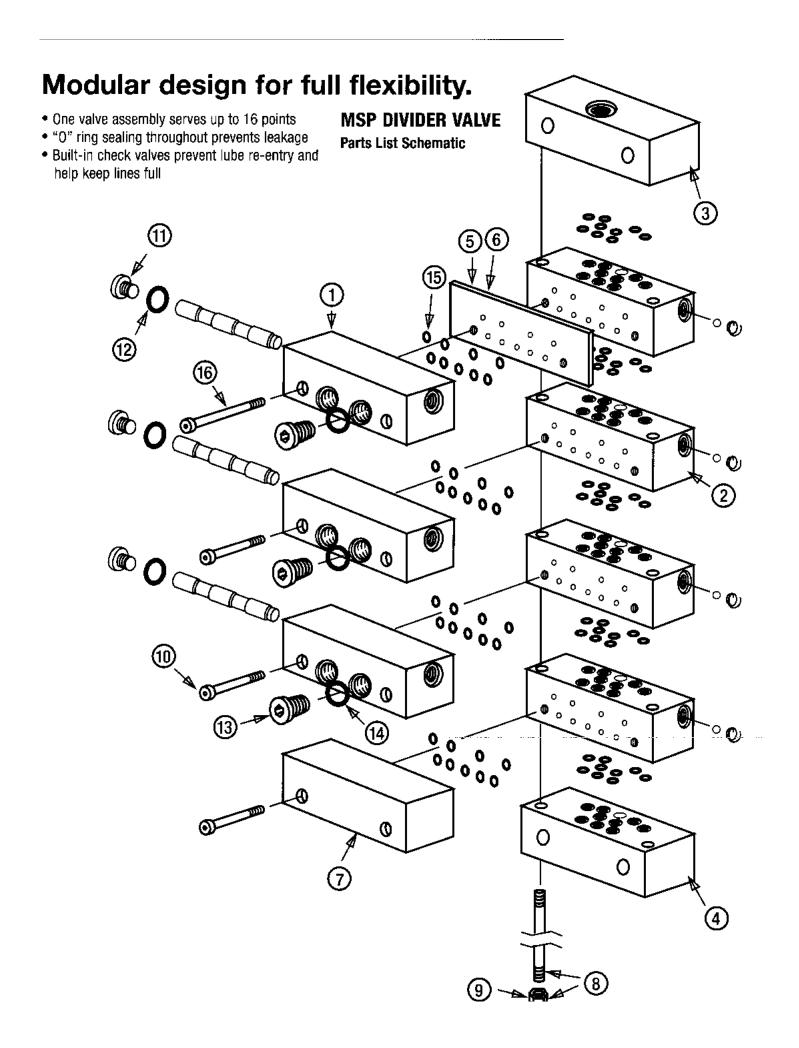
Parts List Key	Description	1/4-18 NPSF Part No.	7/16-20 SAE Part No.	1/4-19 BSPP Part No.
3	inlet inlet w/Bleed	527-001-800 527-000-321	527-003-540 527-000-325	527-003-130
4 †	End Section End (SPP)	527-001-900 510-770-332	527-001-900 510-770-332	527-001-900 510-770-332
5	Crossport Plate Right Left Both	527-005-320 527-005-330 527-005-340	527-005-320 527-005-330 527-005-340	527-005-320 527-005-330 527-005-340
6	Singling Plate	527-005-350	527-005-350	527-005-350
7	Bypass Block	106-000-010	106-000-010	106-000-010

<sup>&</sup>quot;All part numbers shown are for standard Buna-N Seals. Consult Lubriquip for Viton Seals. Valve sections are standard Right Hand; can be made Left Hand. Consult factory. Also consult Lubriquip for systems requiring thread connection series other than those listed.

Parts List Key	Description	Part Number
8	Tie Rod & Nut Assembly	
	3 Section	527-001-930
	4 Section	527-001-940
	5 Section	527-001-950
	6 Section	527-001-960
	7 Section	527-001-970
	8 Section	527-001-980
9	Tie Rod Nut Only	410-440-010
10	Valve Block Mounting Screws	419-140-070
11	Piston Enclosure Plug	527-000-232
12	Piston Enclosure "0" Ring	422-210-040
13	Indicator Port Plug	527-300-840
14	Indicator Port Plug "O" Ring	422-210-030
15	MSP Buna-N "O" Rings	422-010-060
	MSP (70 Duro) Vitan "O" Rings	527-000-810
16	Valve Block Mounting Screw for Crossport/Singling Plate	419-140-080

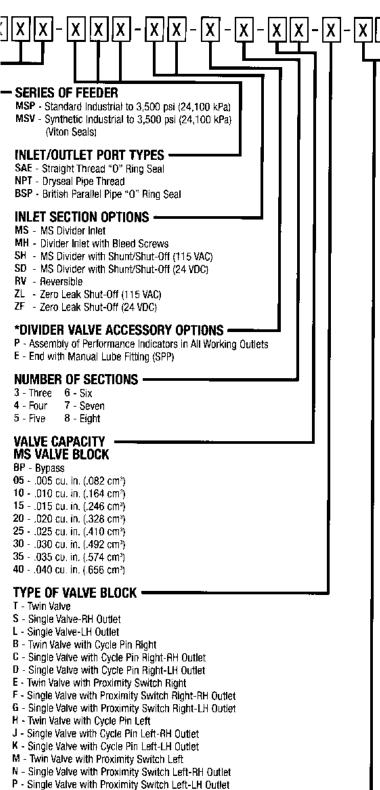
#### SPECIAL INLETS

Description	1/4-18 NPSF Part Number	9/16-18 SAE Part Number
Zero Leak, 115 VAC, 3-pin Brad Harrison Connector	527-004-320	527-005-200
Zero Leak, 24 VDC, 3-pin Brad Harrison Connector	527-004-870	527-005-180
Shunt/Shut-Off, 115 VAC, 3-pin Brad Harrison Connector	527-003-660	527-004-800
Shunt/Shut-Off, 24 VDC, 3-pin Brad Harrison Connector	527-003-680	527-005-780
Shunt/Shut-Off Pneumatic Operator	527-003-730	
Remote Manifold Kit for Zero Leak and Shunt/Shut-Off	527-004-360	527-005-400



#### **low to Order**

#### RDERING INFORMATION



#### NOTES

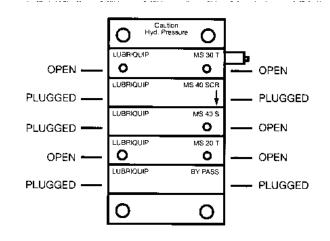
- Right/Left Hand determined when viewing front of divider valve assembly. (Divider valve assembly placed on flat surface with inlet at too.)
- 2. Valves are specified starting from inlet section.
- When valve is crossported, its outlet is plugged and output is diverted to next valve away from injet.
- Last valve in divider assembly, farthest from inlet, cannot be crossported.
- 5. Single valve can be crossported on one side only.
- When valve is a single, only one outlet in its subplate can be used, other outlet must be plugged.
- Cycle pins are available on MS (20, 25, 30, 35, and 40) valves only.
- 8. All divider valve assemblies must have a minimum of 3 working valves.
- Bypass block cannot be supplied on divider valve with 3 subplates. Bypass block is not a working valve.
- Divider systems should be limited to first and second stages only. Third staging is not recommended. Refer to Trabon Bulletins 20101, 20105 and 20115 for further information on system design.

#### ORDERING EXAMPLE

5-section MSP Divider Valve Assembly, standard seals, SAI ports and performance indicators in each working outlet. Consisting of:

- 1 .030 Twin Valve with Cycle Pin Right Side
- 1 .040 Single Valve Crossport Right Side
- 1 .040 Single Valve Right Hand Outlet
- 1 .020 Twin Valve
- Bypass Block

Ordering Code - MSP-SAE-MS-P-5-30B-40SCR-40S-20T-BF



\*CROSSPORTING OPTION · CR - Right Hand Side

CL - Left Hand Side

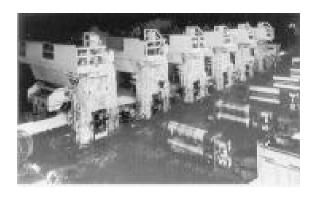
# LUBRIQUIP® has applied automatic lubrication technology to a world of needs including yours!



Lubriquip systems require minimum attention. Filling the reservoir and periodic inspections are the only routine maintenance required.



Automated systems improve safety. Maintenance personnel do not have to lubricate dangerous machinery. Operators have less exposure to oil and lubricants on equipment and floor.

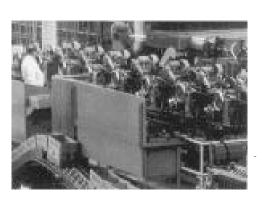


Lube delivery to machines in motion is often superior to static lubrication. Oil and grease are forced into the load area to coat wear points.

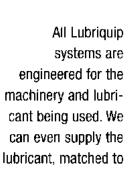


Lubriquip's automated systems deliver lubricant to vital mechanisms, prolonging equipment life and reducing downtime.

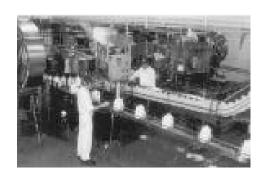




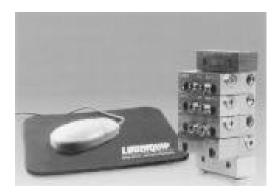
Surges, vibration, and other erratic operations are reduced with automatic lube systems. This minimizes risk of damage to equipment, products and personnel.



the system you need.



#### Your solution is at hand.



Our years of engineering innovative lubrication technology, plus our worldwide network of more than 100 distributors means that the components you need are probably in stock right now. This inventory of proven components allows distributors and factory engineers to design a truly customized system using economical on-the-shelf parts.

## NEW OR UPGRADE, LUBRIQUIP HAS THE APPLIED TECHNOLOGY.

Whether you are considering new equipment or upgrading an existing system, count on Lubriquip for the applied lubrication technology to meet your need with a minimum of hassle and investment. Call on our unparalleled customer support for fast efficient design, installation, maintenance and troubleshooting assistance, or to get the name of your nearest full-line, factory-trained distributor.

#### 1-800-USA LUBE



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