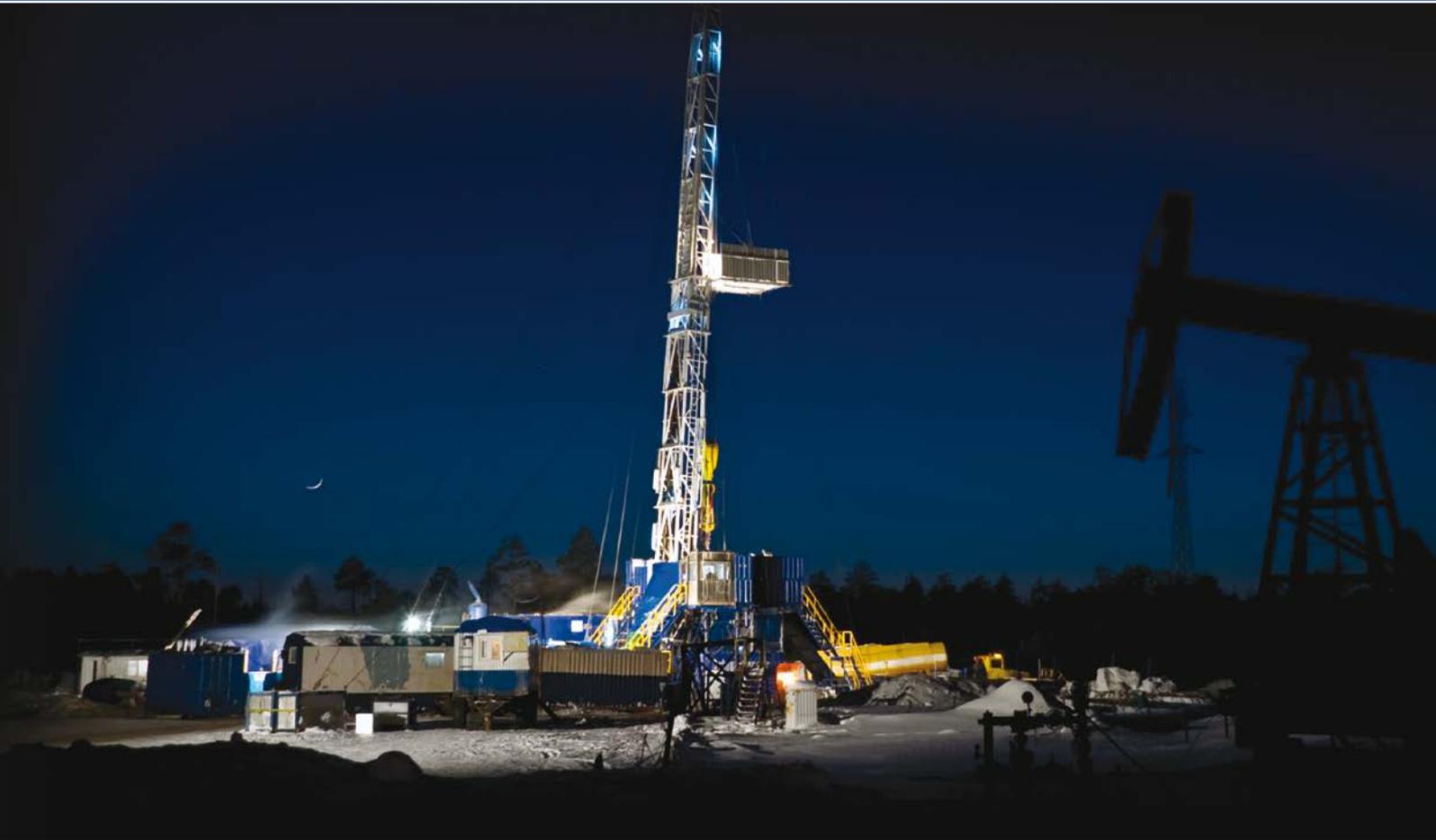




# Manzel™ Lubrication Equipment

Safeguarding the World's Natural Gas Distribution Network



The broadest range of equipment, backed by the largest distribution network

- The industry's most complete, highest performing force feed pumps
- Series Progressive System, precisely proportions oil volume to meet the needs of every lube point
- A full range of accessories to ensure complete and accurate lubrication

PROVEN QUALITY. LEADING TECHNOLOGY.



# Manzel™ Lubrication Equipment

## Safeguarding the World's Natural Gas Distribution Network

### ACCESSORIES

A full range of accessories to ensure complete and accurate lubrication

#### Reset Indicator

- Rapid-action troubleshooting tool with visual indication
- No tools required for reset or parts to be replaced after indication
- Simple, clear information about blocked lines, high system pressure and blocked bearings

Simple point troubleshooting with visual indication and simple reset



#### Proximity Switch

- Monitors piston movement to ensure completed lubrication cycle
- Provides positive feedback based on actual metering piston movement
- Can be set to open or closed operation as standard

Magnetically-operated sensing devices for sending system data to the controller or PLC



#### Lube Line Alert

- Universal use - can be used in all air-free force feed lubrication systems
- Sensitive to a wide range of flows –from .006 to 190 cubic inches per minute
- Operates on systems up to 689 bar (10.000 psi)
- Explosion-proof - UL and CSA-listed for class I groups C & D and class II groups E, F & G. Division 1 & 2 when installed as per NEC 501

Indicates flow or no-flow at any point in the system ahead of the inlet



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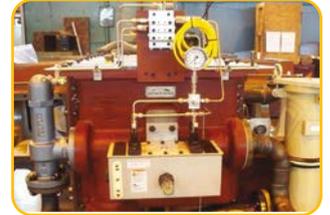
### BOX LUBRICATORS

Box Lubrication Systems

The industry's most complete, highest performing force feed pumps

#### FEATURES

- Rugged construction for high performance and durability
- Suction and gravity/pressure feed models for application flexibility
- Precise, accurate output—sightglass drops indicate actual oil flow



#### TECHNICAL SPECIFICATIONS

Pump	Maximum Pressure	FEED TYPE	
		Vacuum	Pressurized
Model 25*	68 bar (1.000 psi)	✓	
DSL	207 bar (3.000 psi)	✓	✓
MVB	551 bar (8.000 psi)		✓
Model 15	1034 bar (15.000 psi)	✓	
Model 50	3448 bar (50.000 psi)	✓	✓

\* indoor use only

### DIVIDER VALVES

Series Progressive System

#### FEATURES

- Accurately administers oil volume to meet the needs of each lubrication point
- Operates sequentially to ensure no point is missed
- Ideal for compressor and engine applications as well as anywhere that high pressure lubrication is required
- TFE seals standard in MHH valves for temperature and material compatibility
- SAE, NPSF or metric threading for worldwide compatibility



The industry standard for natural gas engines and compressors

#### TECHNICAL SPECIFICATIONS

	MH6	MH9	MH12	MH18	MH24	MH30
Maximum Pressure MHH Valve	517 bar (7500 psi)					
Output Twin Outlet, cm <sup>3</sup> (in <sup>3</sup> )	0.098 (0.006)	0.148 (0.009)	0.197 (0.012)	0.295 (0.018)	0.393 (0.024)	0.492 (0.030)
Output Single Outlet, cm <sup>3</sup> (in <sup>3</sup> )	0.197 (0.012)	0.295 (0.018)	0.393 (0.024)	0.590 (0.036)	0.787 (0.048)	0.983 (0.060)
Cycle Indication	N/A	N/A	N/A	Optional	Optional	Optional