



VIKING PUMP

PIPELINE INJECTION PRODUCTS

DURABLE & RELIABLE SOLUTIONS

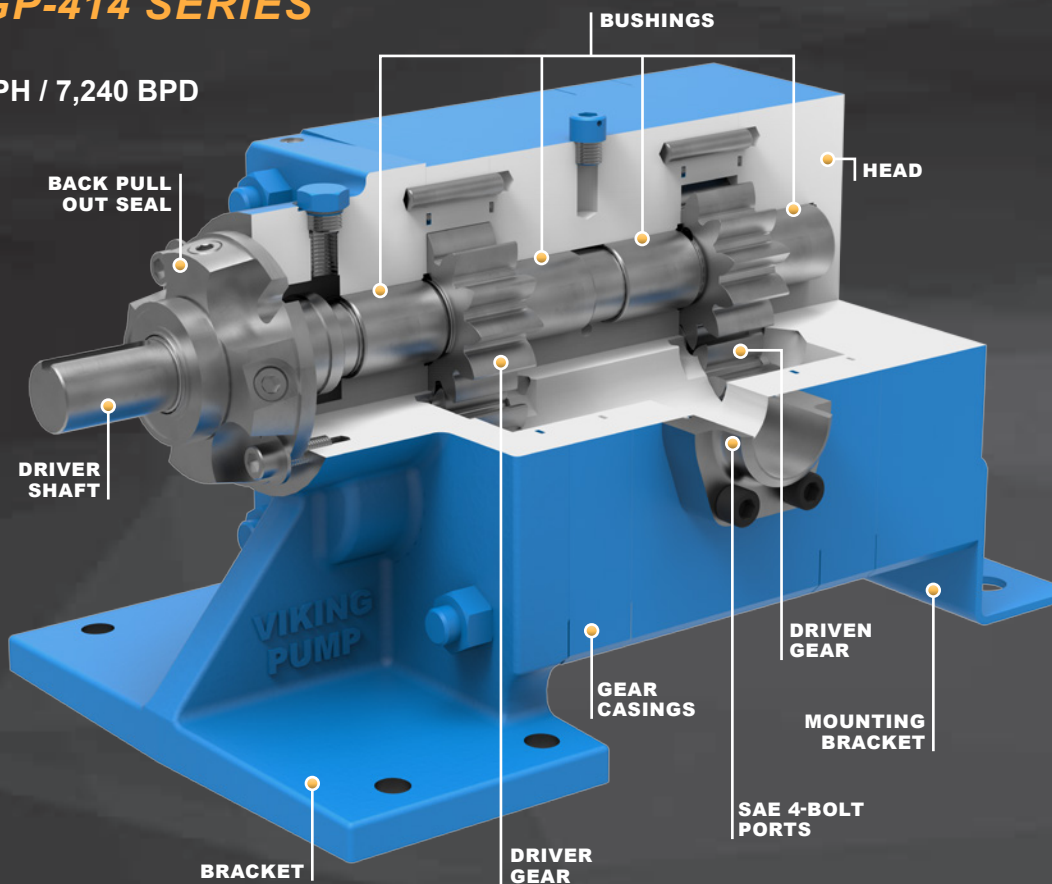




PIPELINE INJECTION PUMP

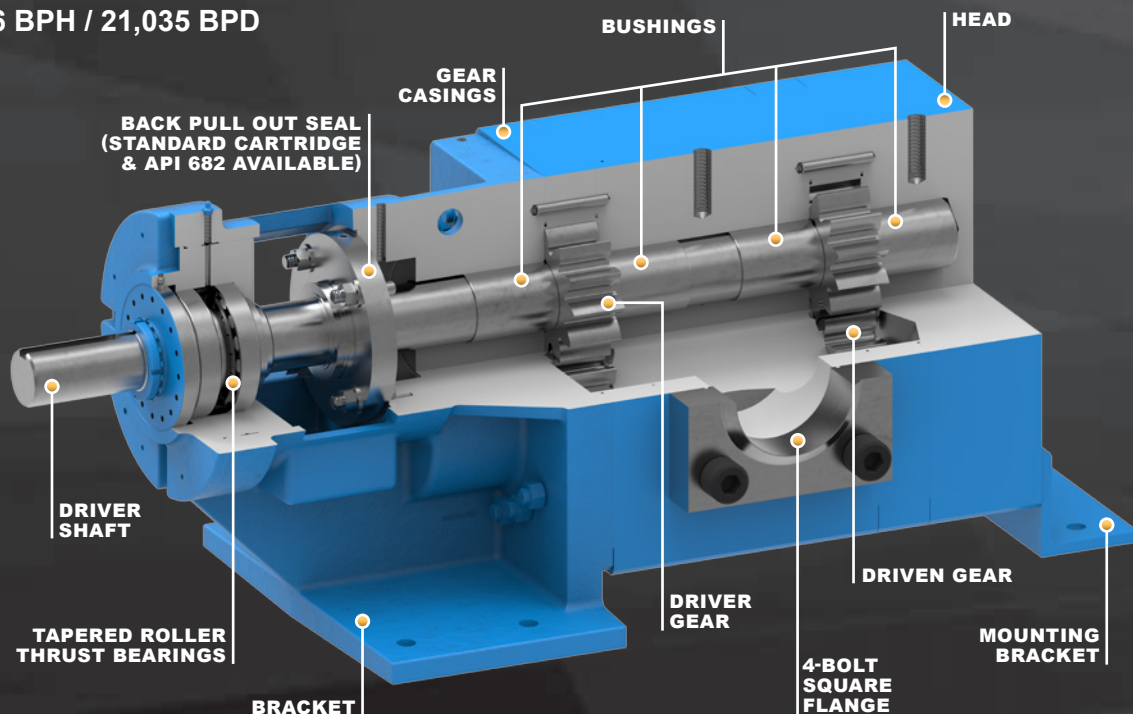
GP-410 & GP-414 SERIES

Flows up to:
210 GPM / 300 BPH / 7,240 BPD
(nominal flow)



GP-425 SERIES

Flows up to:
610 GPM / 876 BPH / 21,035 BPD
(nominal flow)



FEATURES & BENEFITS

Multiple Sealing Options

- Single component mechanical seal standard on all GP-410/414 Series models
 - Cartridge seals and balanced seals available
- Single cartridge mechanical seal standard on GP-425 Series models
 - API Size 7 seal bore as standard to accept API 682 seal if required
- Double and tandem cartridge mechanical seals available
- Additional seal face material options available

Durable Construction

- Heat treated gears and shafts for reliability and increased service life
- Internal surfaces are Vitek hardened to increase wear resistance
- GP-425 Series standard with tapered roller bearings for thrust control
- GP-414 Series with balanced mechanical seal also includes thrust bearing for elevated inlet pressure conditions

Modular Port Design

- GP-410/414 Series uses bolt on port adapters for maximum connection modularity
 - Available in 2" & 3" with SAE to weldneck adapters, 4" 3000 Series
- GP-425 Series has bolt on port adapters standard 6" to weldneck fittings
- All pumps have 180° port orientation for suction and discharge piping
- Bolt on port adapter design allows for multiple flange options

Compact Footprint

- External gear design is significantly more compact than progressing cavity, screw, reciprocating, and centrifugal technologies
- Direct drive, motor-speed operation eliminates the need for gearboxes or belt drives
- Standard inverter duty rated motors on all complete units

Reduced Maintenance

- Back pull-out seal design and spacer coupling eliminate the need to disturb piping or perform alignments during seal changes
- No pulsation dampeners, gear reducers, belt drives, or additional equipment to service and maintain

PERFORMANCE

GP-410 & GP-414 Models	Ports*	Nominal Flow @ 750 PSI (1775 rpm) on 4 cP Viscosity			Nominal Flow @ 1,500 PSI (1775 rpm) on 4 cP Viscosity			Maximum Continuous Pressure	Maximum Recommended Temperature	Approximate Shipping Weight (Pump Only)
		GPM	BPH	BPD	GPM	BPH	BPD			
Ductile Iron	Inch	GPM	BPH	BPD	GPM	BPH	BPD	PSI	Deg. F	Lbs.
GP-41013	2" SAE	22	32	760	20	29	683	1500	350	61
GP-41026	2" SAE	44	63	1,520	40	57	1,366	1500	350	85
GP-41415	2" SAE	46	66	1,587	39.7	57	1,362	1500	350	170
GP-41420	2" SAE	60	85	2,045	—	—	—	750	350	170
GP-41430	2" SAE	94	134	3,208	81	116	2,779	1500	350	270
GP-41440	3" SAE	120	172	4,138	—	—	—	750	350	284
GP-41445	3" SAE	141	201	4,833	122	175	4,202	1500	350	395
GP-41455	3" SAE	168	240	5,760	—	—	—	750	350	403
GP-41460	4"	182	260	6,230	—	—	—	750	350	447

* 2" & 3" SAE Ports use J518 Code 61 SAE Flange Ports.
4" Port uses 3000 Series Square Flange.

Note: GP-410 & GP-414 Series motor speed - 1775 RPM.

GP-425 Models	Ports*	Nominal Flow @ 750 PSI (1190 rpm) on 4 cP Viscosity			Nominal Flow @ 1,500 PSI (1190 rpm) on 4 cP Viscosity			Maximum Continuous Pressure	Maximum Recommended Temperature	Approximate Shipping Weight (Pump Only)
		GPM	BPH	BPD	GPM	BPH	BPD			
Ductile Iron	Inch	GPM	BPH	BPD	GPM	BPH	BPD	PSI	Deg. F	Lbs.
GP-42525	6"	175	249	5,948	155	221	5,305	1,500	350	1370
GP-42550	6"	344	491	11,794	305	435	10,457	1,500	350	1815
GP-42575	6"	520	744	17,843	464	663	15,915	1,500	350	2500

* 6" Port uses 3000 Series Square Flange.

Note: GP-425 Series motor speed - 1190 RPM.

COMMON PORT LOCATION

Viking's CPL baseplate design allows customers to retrofit pumps with lower flow rates onto existing baseplates with no piping changes required. Please contact your Viking Pump representative for more information on this drive package option.



Note: CPL only available on GP-414 & GP-425 Series, and larger port sizes available as special order on some models.

Please contact your Viking Pipeline Injection Pump Specialist for additional curves & pump selection assistance



SAMPLE/SUMP PUMP

FEATURES & BENEFITS: SG-05 SERIES

Hardened Steel Gears and Shafts

- Heat treated gears and shafts offer long service life and resistance to wear

Internal Pressure Relief Valve

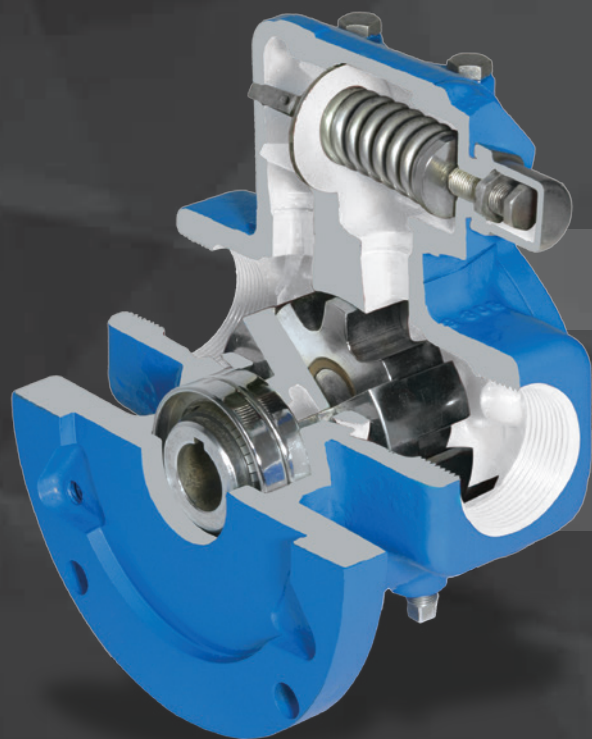
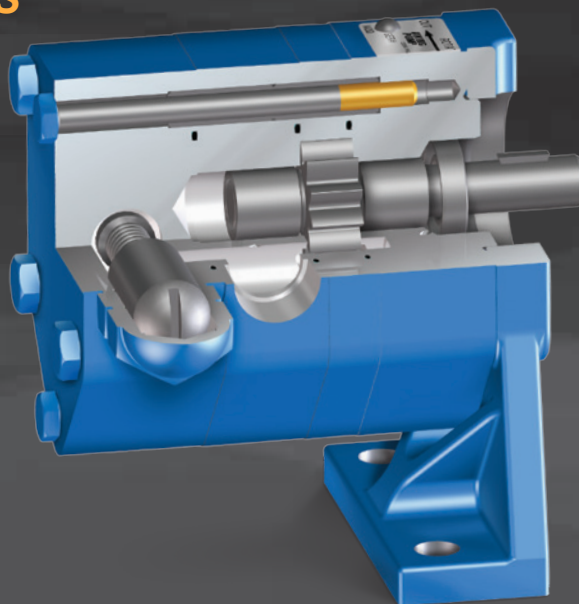
- Protects system from over pressurization and eliminates the need for external relief valves

High Pressure Capability

- Differential pressures up to 500 PSI

Compact Design

- Close-coupled design offers space savings



FEATURES & BENEFITS: 475 SERIES

NEMA C-Face Mounting

- Small footprint, positive alignment, and motor-speed operation

Simple Construction

- Minimal parts for increased reliability

Self-Priming, Positive Displacement

- Ideal for filtering, circulation, and transfer of liquids

Internal Pressure Relief Valve

- Protects system from over pressurization and eliminates the need for external relief valves

PERFORMANCE

Model Number	Port Size	Port Type	Nominal Capacity at Maximum Speed	Maximum Speed	Maximum Differential Pressure	Maximum Temperature	Approximate Shipping Weight (Pump Only)
	Inches		GPM	RPM	PSI	°F	Pounds
SG-0550	0.5	NPT	2	1,750	500	225	7
SG-0570	0.5	NPT	2.8	1,750	500	225	7
SG-0510	0.5	NPT	4	1,750	400	225	8
SG-0514	0.75	NPT	5.6	1,750	200	225	9
G475	1	NPT	7	1,750	100	225	17
GG475	1	NPT	10	1,750	100	225	17
H475	1.5	NPT	15	1,750	100	225	24
HJ475	1.5	NPT	20	1,750	100	225	24
HL475	1.5	NPT	30	1,750	100	225	26



STRAINER

FEATURES & BENEFITS

Low Pressure Drop

- Inclined basket design for low pressure drop and high system efficiency

Easy to Clean

- Top basket removal eliminates the need to drain the strainer and minimizes product loss

Multiple Flange Options Available

- Offered in Class 150 and Class 300 ANSI flange ratings with raised faces standard

Standard Features

- Vent, differential pressure gauge ports, and drain are standard

Viking Quality Ductile Iron Construction

- Rigorous construction standards and quality testing completed before strainer is shipped from factory



PERFORMANCE

Model Number	Port Size	Port Type	① Nominal Capacity Suction Rating	② Rated System Pressure	③ Maximum Temperature	Approximate Shipping Weight
	Inches		GPM	PSI	°F	Pounds
F-1020-RDUC	2	Class 150 RF	100	250	350	28
F-1020-HDUC	2	Class 300 RF	100	640	350	31
F-1030-RDUC	3	Class 150 RF	200	250	350	58
F-1030-HDUC	3	Class 300 RF	200	640	350	65
F-1040-RDUC	4	Class 150 RF	400	250	350	81
F-1040-HDUC	4	Class 300 RF	400	640	350	96

- ① Capacity based on approx. 1 PSI pressure drop with 40 mesh basket and 4 cP liquid.
 ② System pressure ratings for temperature range of 0°F to 100°F per ANSI B16.42 Ductile Iron Pipe Flanges and Flanged Fittings.
 ③ Fluoroelastomer (FKM) elastomers are standard.



TRANSLOAD PUMP

FEATURES & BENEFITS

Motor Speed Operation*

- Compact design
- Optional close-coupled design eliminates the need for unit alignment

Simple Construction

- Internal gear design with only two moving pump elements
- 40% average fewer parts than other gear pump types

One-Piece Casing & Bracket

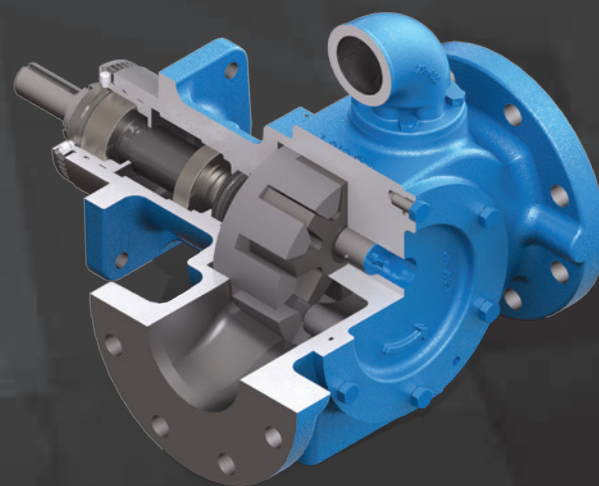
- Rigid one-piece design ensures alignment for maximum bearing and seal life

Heavy Duty Design

- Sealed anti-friction bearings eliminate the need for lubrication maintenance
- Enables end clearance adjustment for viscosity or to compensate for wear over time

Pressure Lubricated Idler Pin

- Lubricates the idler pin / bushing interface to extend life on thin liquids

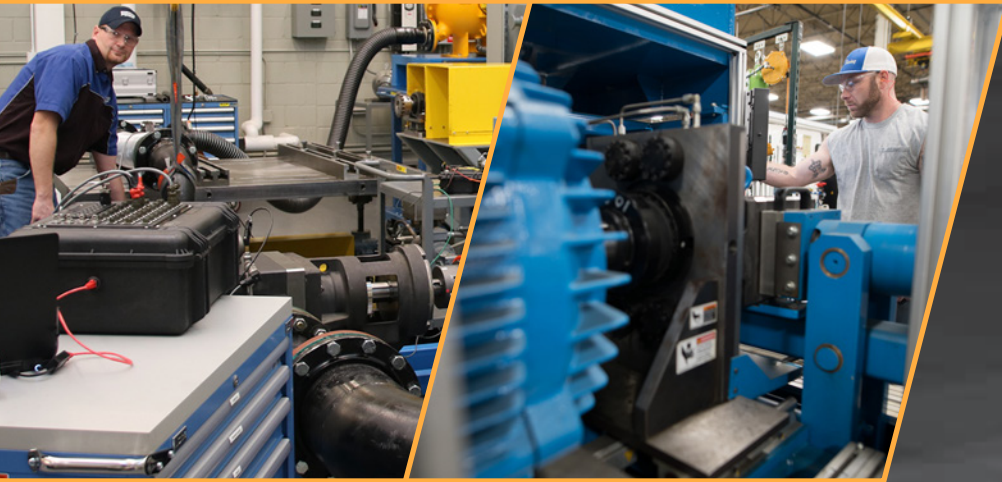


PERFORMANCE

Model Number	Port Size	② Port Type	60 Hz		Maximum Differential Pressure	Maximum Hydrostatic Pressure	③ Maximum Temperature	Approximate Shipping Weight (Pump Only)
	Inches		RPM	GPM	PSI	PSI	°F	Pounds
① KE4195	4	Flange	1750	150	250	300	225	132
① KKE4195	4	Flange	1750	205	250	300	225	133
① LQE4195	4	Flange	1150	235	250	300	225	220
① LSE4195	4	Flange	1150	350	250	300	225	222
Q4195	6	Flange	640	390	250	300	225	443
QS4195	6	Flange	640	580	250	300	225	450

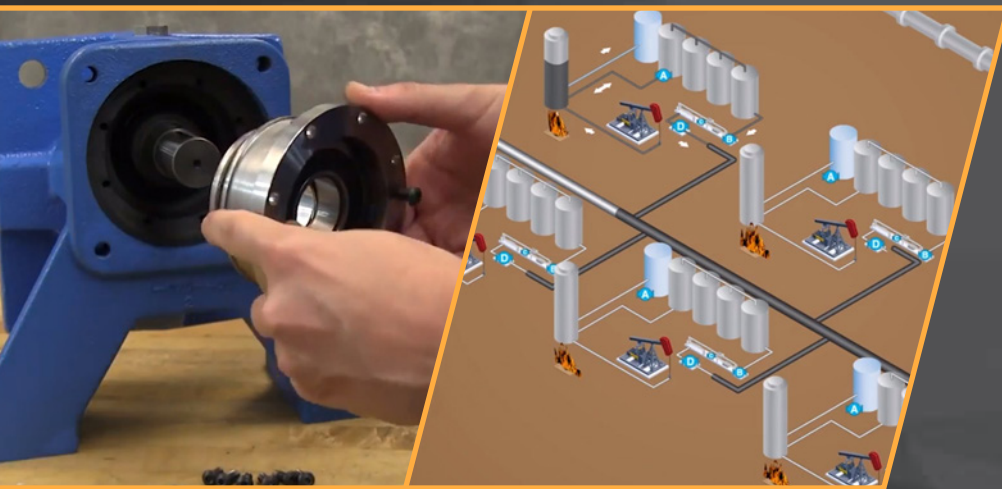
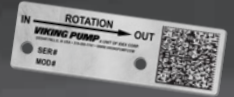
- ① KE, KKE, LQE, LSE 4195 models have both mounting flange for motor bracket and a mounting foot.
 ② Flange ports are suitable for use with Class 125 ANSI cast iron companion flanges or flanged fittings.
 ③ FKM elastomers are standard.

THE VIKING ADVANTAGE



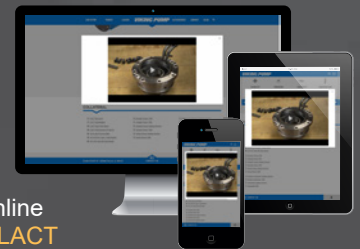
ALL PUMPS FACTORY TESTED

- Every GP-425 pump is performance tested in our state of the art product engineering lab
- Every GP-410 & GP-414 pump is performance tested on our automated test stand
- All Viking Pipeline Injection pumps come with data matrix on the nameplate with factory saved test data



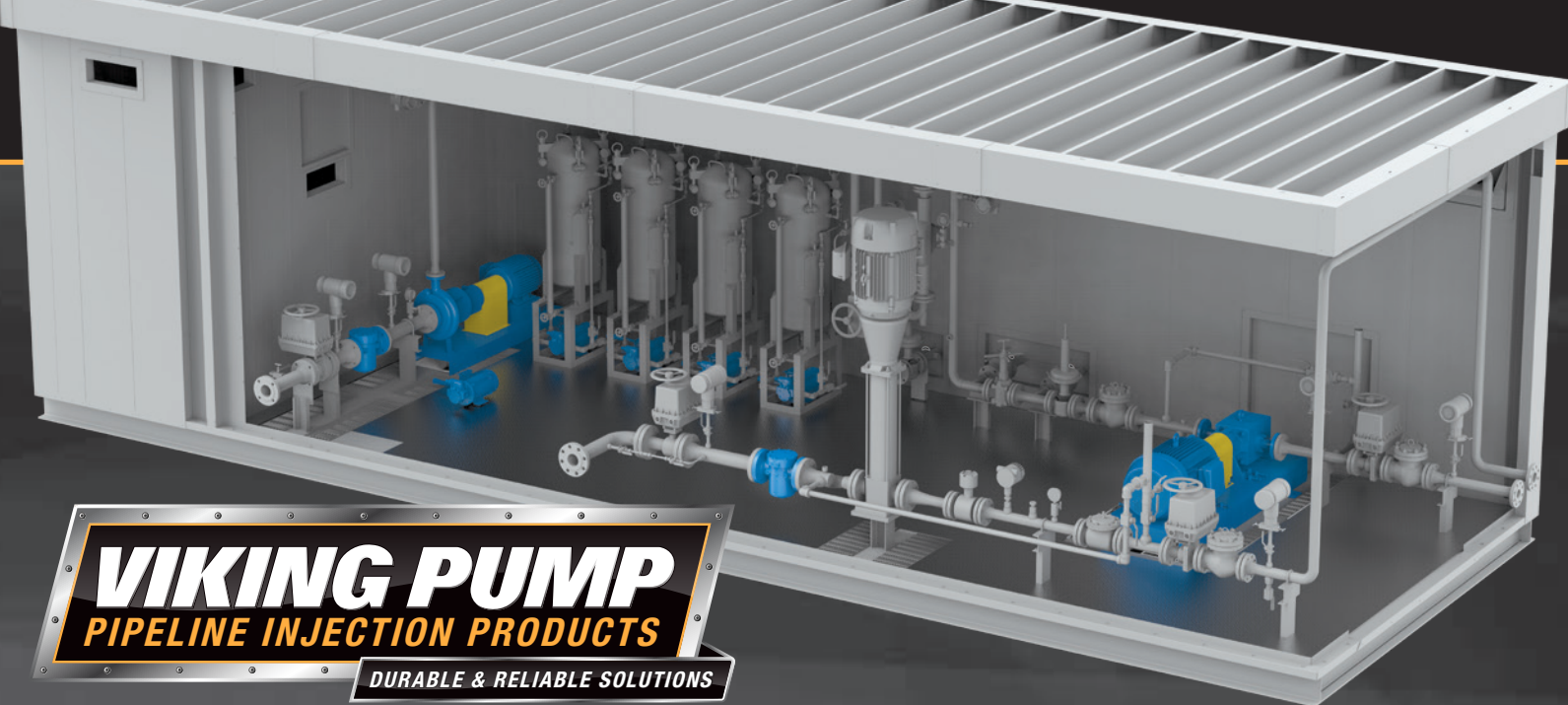
VIDEOS

- Easily accessible online at vikingpump.com/LACT
- Step-by-step repair videos
- Pump application process map



VIKING PUMP BY THE NUMBERS

- Founded in **1911**
- **4** locations worldwide
- Pumps installed on all **7** continents
- **500+** employees globally
- **6,500,000** total installed pumps
- Nearly **500,000** sq. ft. dedicated to manufacturing, testing & foundries



VIKING PUMP

PIPELINE INJECTION PRODUCTS

DURABLE & RELIABLE SOLUTIONS



**PUMPS PRODUCED & ASSEMBLED
IN CEDAR FALLS, IOWA - USA**

VERTICALLY INTEGRATED PRODUCTION PROCESS

Viking Pump operates two foundries, a 200,000+ sq. ft. machining, assembly and testing center, and an extensive product engineering and testing lab in its world headquarters in Cedar Falls, Iowa, USA. Our vertical integration ensures maximum product quality and the ability to accommodate individual customer needs and meet project schedules.



ZERO INJURY CULTURE

Awareness - Attitude - Action

VIKING PUMP
WRIGHT FLOW TECHNOLOGIES



**VIKING
PUMP**

VIKING PUMP, INC.
A Unit of IDEX Corporation
406 State Street
Cedar Falls, Iowa 50613 U.S.A.
Phone: (319) 266-1741
vikingpump.com

IDEX

© Copyright 2018 Viking Pump, Inc. All Rights Reserved. Rev0418 | Form No. 441-C