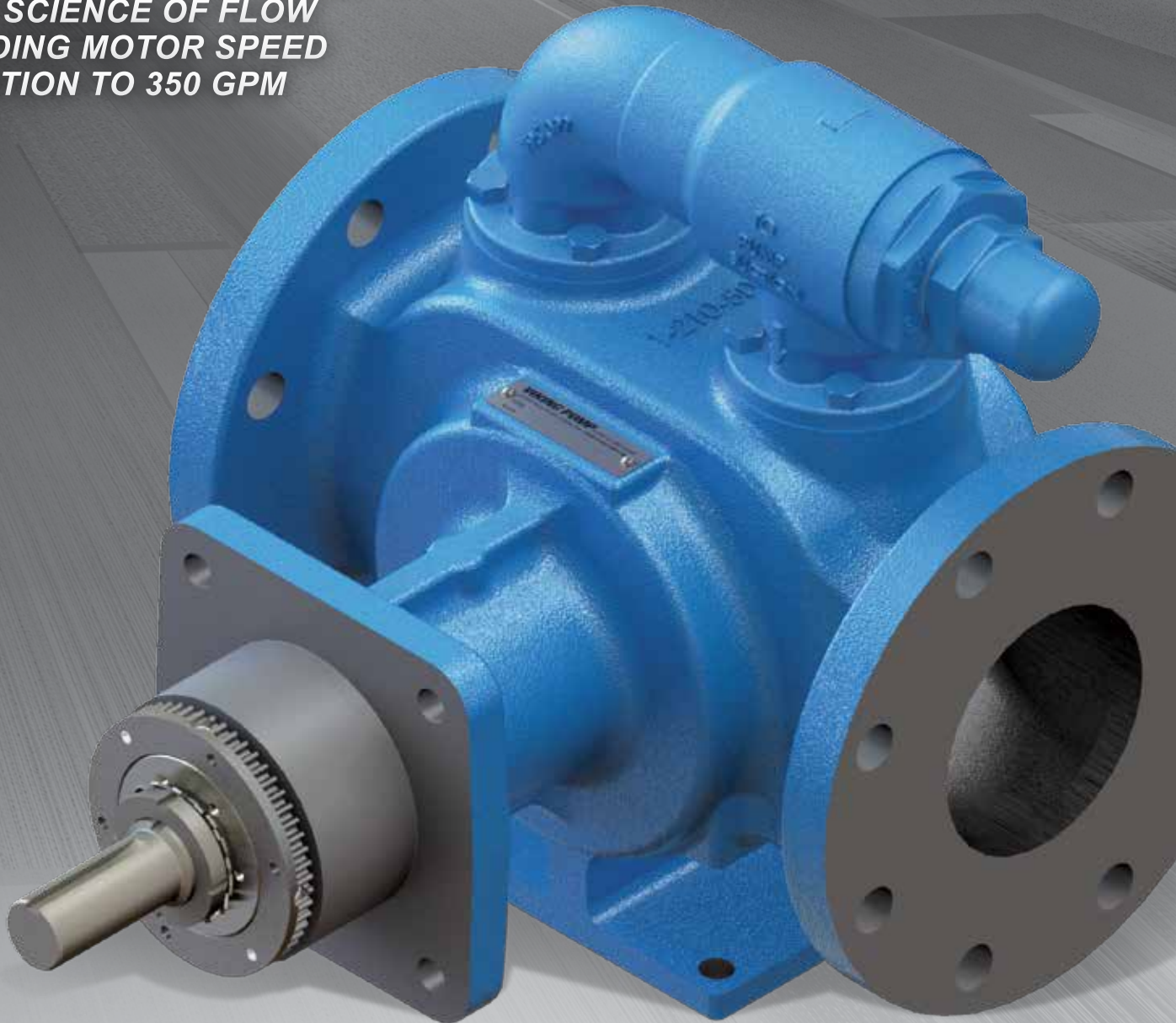




MOTOR SPEED

SMALLER. FASTER. EASIER.

**TECHNOLOGICAL ADVANCES
IN THE SCIENCE OF FLOW
PROVIDING MOTOR SPEED
OPERATION TO 350 GPM**



Capacity
to 580 GPM (132 M³/Hr)



Pressure
to 250 PSI (17 BAR)



Viscosity
28 to 25,000 SSU (5,500 cSt)



Temperature
-40°F to +350°F (-40°C to +180°C)

VIKING PUMP

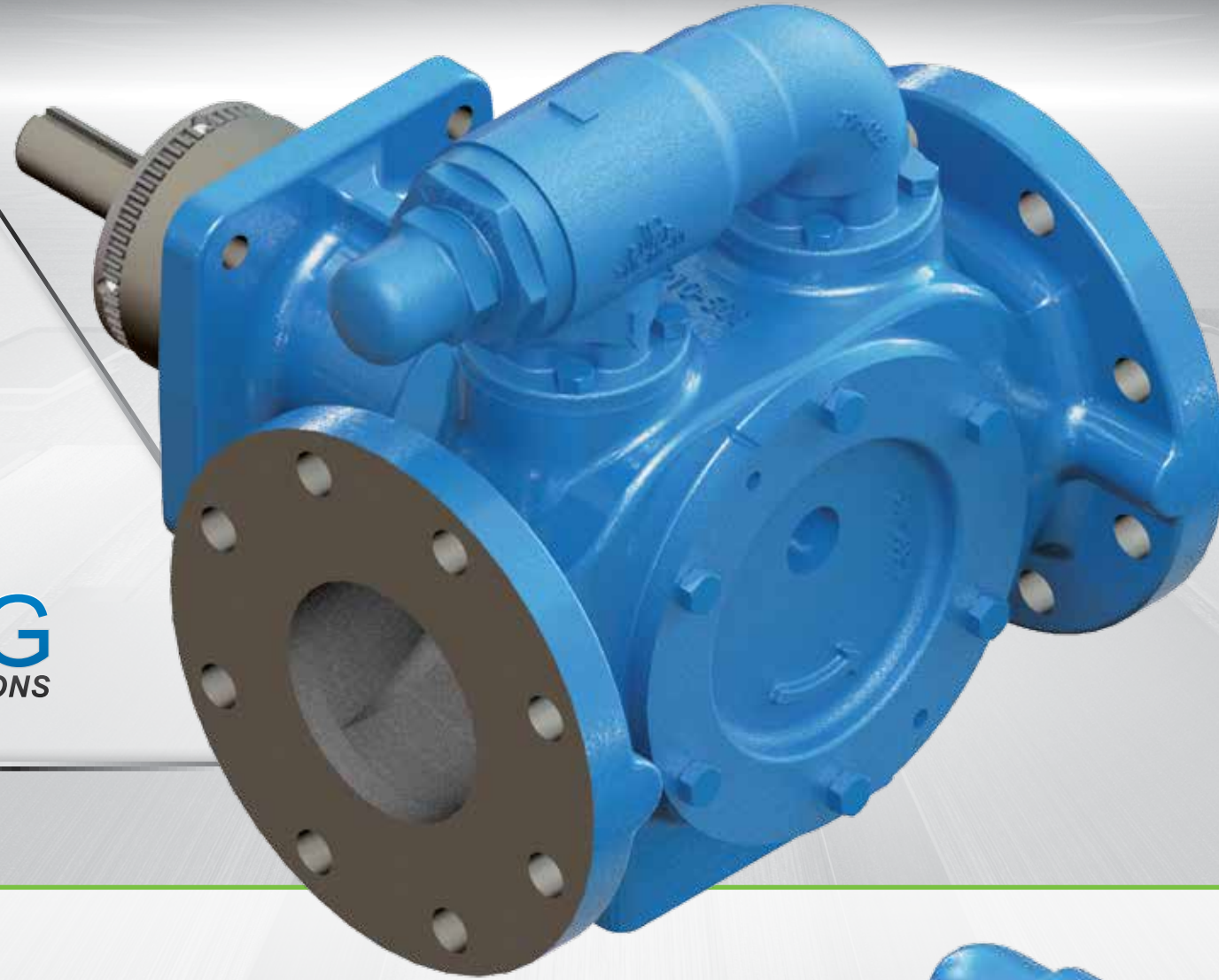
A Unit of IDEX Corporation

VIKING PUMP

Industry & Application Experts

- Application experience spanning more than 100 years
- Viking invented the internal gear pump
- Reliability, quality and performance
- Global service and support

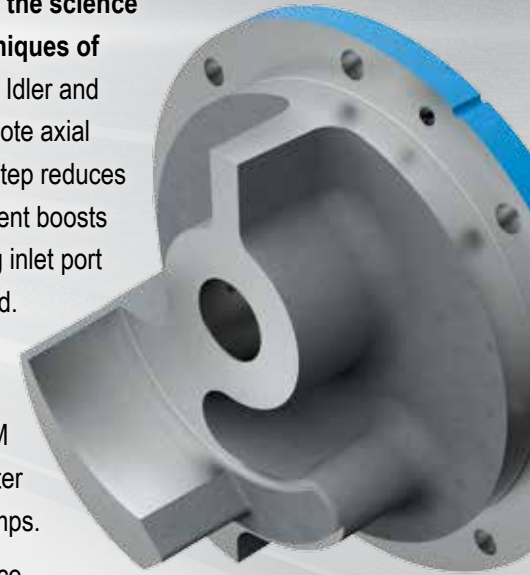
GLOBAL
LEADER
 IN POSITIVE DISPLACEMENT
PUMPING
 SOLUTIONS



Technological advances in the science of flow featuring new techniques of feeding the rotor and idler. Idler and rotor root feed grooves promote axial feeding, the liquid directing step reduces turbulence, a modified crescent boosts radial feeding and the casing inlet port geometry has been optimized.

Benefits:

- Maximum flow of 580 GPM (132 M³/Hr) provides greater flow than similar sized pumps.
- Reduced foot print for space constrained applications
- Motor speed operation to 350 GPM provides higher value per GPM
- Simplicity of design allows for an easy installation process



MOTOR SPEED
 SMALLER. FASTER. EASIER.



G-GG

to 10 GPM (2.3 M³/Hr)
 @ 1750 RPM

H-HJ-HL

to 30 GPM (6.8 M³/Hr)
 @ 1750 RPM

AS-AK-AL

to 115 GPM (27 M³/Hr)
 @ 1750 RPM

KE-KKE

to 205 GPM (47 M³/Hr)
 @ 1750 RPM

LQE-LSE

to 350 GPM (80 M³/Hr)
 @ 1150 RPM

Q-QS

to 580 GPM (132 M³/Hr)
 @ 640 RPM

MOTOR SPEED ADVANTAGES



ROTATABLE BEARING HOUSING
Allows for end clearance adjustment.

FLANGE FOR MOTOR BRACKET
No need for drive equipment, providing better unit alignment.

BEHIND THE ROTOR SEAL
Shaft and bearings not exposed to media.

SEALED ANTI-FRICTION BEARINGS
Eliminates the need for relubrication.

RIGID ONE-PIECE CASING & BRACKET
Ensures alignment for maximum bearing and seal life.

EXPANDED FEEDING AREA & REDESIGNED HEAD
Allows for higher speeds and flow.

PRESSURE LUBRICATED IDLER PIN & BUSHING
Enhances pin & bushing life.

Drive Options

CLOSE-COUPLED



Motor Drive

LONG-COUPLED



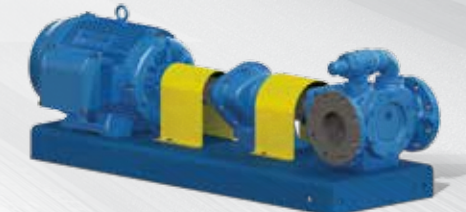
Direct Drive

MOTOR SPEED

REDUCED SPEED



Gearmotor Drive



Reducer Drive

MARKETS & APPLICATIONS

REFINED FUELS

Fuel Oils • Diesel • Biofuel

OILS

Crude Oil • Lubrication • Hydraulic • Edible Oils

CHEMICALS

Solvents • Glycols • Refrigerants

SPECIFICATIONS & CONSTRUCTION

MODEL		SPECIFICATIONS															
Footed	Mounting Flange for Motor Bracket ①	Port Size Inches	Port Type ②	60 Hz			50 Hz			Maximum Differential Pressure		Maximum Hydrostatic Pressure		Maximum Temperature		Approximate Shipping Weight	
			GPM	RPM	GPM	M ³ /Hr	RPM	GPM	M ³ /Hr	PSI	Bar	PSI	Bar	°F	°C	Lbs	Kg.
G4195	G495	1	NPT	1750	8	1.8	1450	7	1.5	250	17	400	27	350	180	20	9
GG4195	GG495	1	NPT	1750	10	2.3	1450	8	1.9	250	17	400	27	350	180	20	9
H4195	H495	1.5	NPT	1750	15	3.4	1450	12	2.8	250	17	400	27	350	180	44	20
HJ4195	HJ495	1.5	NPT	1750	20	4.5	1450	17	3.8	250	17	400	27	350	180	44	20
HL4195	HL495	1.5	NPT	1750	30	6.8	1450	25	5.6	250	17	400	27	350	180	44	20
AS4195	AS495	2.5	NPT	1750	55	12	1450	45	10	250	17	400	27	350	180	85	39
AK4195	AK495	2.5	NPT	1750	85	19	1450	70	16	250	17	400	27	350	180	85	39
AL4195	AL495	3	NPT	1750	115	26	1450	95	22	250	17	400	27	350	180	86	39
KE4195①	-	4	Flange	1750	150	34	1450	125	28	150	10	300	20	225	110	132	60
KKE4195①	-	4	Flange	1750	205	47	1450	170	39	150	10	300	20	225	110	133	60
LQE4195①	-	4	Flange	1150	235	53	960	195	44	150	10	300	20	225	110	220	100
LSE4195①	-	4	Flange	1150	350	80	960	290	67	150	10	300	20	225	110	222	101
Q4195	-	6	Flange	640	390	88	640	390	88	150	10	300	20	225	110	443	201
QS4195	-	6	Flange	640	580	132	640	580	132	150	10	300	20	225	110	450	204

① 495 models require motor mount bracket, do not have mounting foot.
KE, KKE, LQE, LSE 4195 models have both mounting flange for motor bracket and a mounting foot.

NOTE: Steel rotor recommended on sizes GG, HJ & Q above 7,500 SSU / 1,600 cSt viscosity.

② Flange ports are suitable for use with Class 125 ANSI cast iron companion flanges or flanged fittings.

MATERIALS OF CONSTRUCTION

Component	Standard Material
Bracket/Casing	Cast Iron, ASTM A48, Class 35B
Head	Cast Iron, ASTM A48, Class 35B
Pressure Relief Valve	Cast Iron, ASTM A48, Class 35B
Rotor Shaft	Steel, ASTM A108, Grade 1045
Rotor	Cast Iron, ASTM A48, Class 35B (G, GG, H, HJ, KE, LQE, Q) Ductile Iron, ASTM A536 Grade 60-40-18 (HL, AS, AK, AL, KKE, LSE, QS)
Idler	Cast Iron, ASTM A48, Class 35B (G, GG, H, HJ, HL) Ductile Iron, ASTM A536 Grade 60-40-18 (AS, AK, AL) Hardened Steel, ASTM A148, Grade 80-50 (KE, KKE, LQE, Q, QS) Hardened Steel, ASTM A148, Grade 80-40 (LSE)
Idler Pin	Hardened Steel, ASTM A108, Grade 1045
Idler Bushing	Carbon Graphite
Mechanical Seal Faces	Carbon vs. Silicon Carbide
Elastomers	Viton®
Antifriction Bearings	Steel with Buna Seals

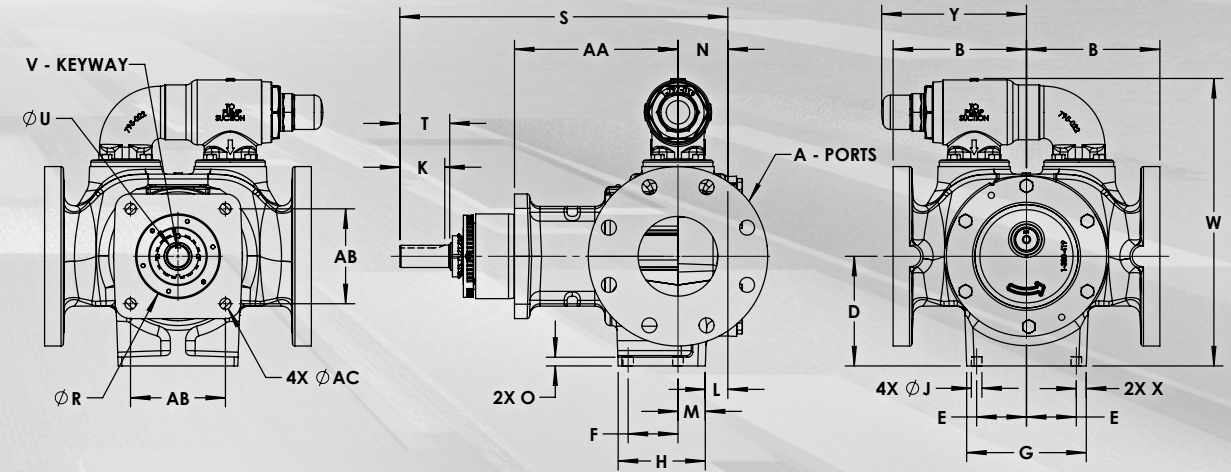
Viton® is a registered trademark of DuPont Performance Elastomers.



STANDARD DIMENSIONS

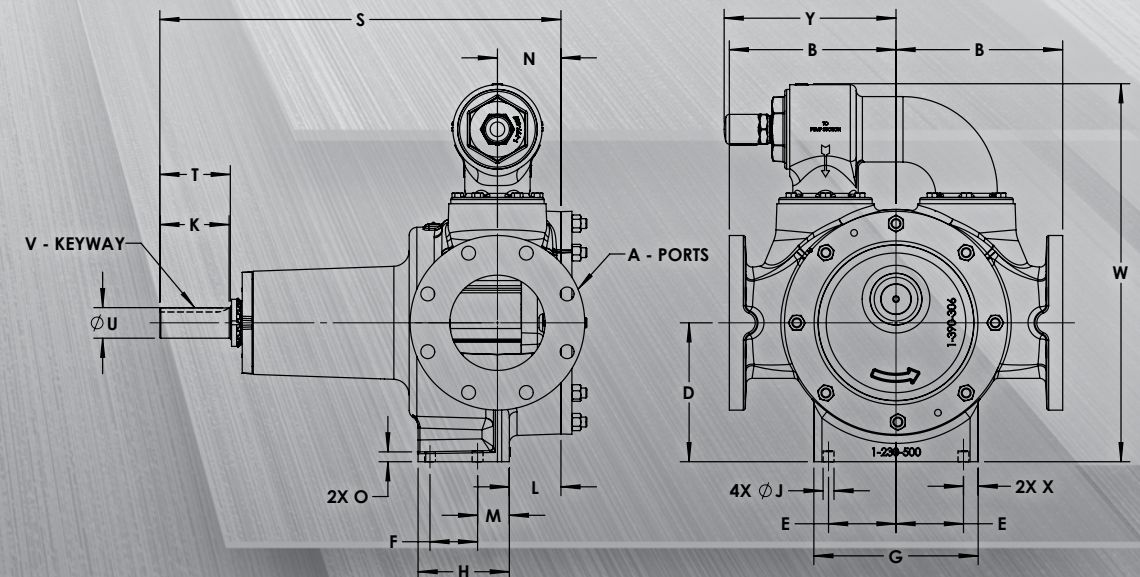


KE Through LSE 4195 (Pump Only)



MODEL	A	B	D	E	F	G	H	J	K	L	M	N	O	R	S	T	U	V	W	X	Y	AA	AB	AC
KE4195 KKE4195	in.	6.69	5.50	2.50	2.50	6.00	4.37	0.53	2.25	1.13	1.37	2.50	0.44	4.250 4.248	16.45	2.50	1.125	.25 X .12	14.42	0.50	7.26	8.20	4.76	0.56
	mm	169.9	139.7	63.5	63.5	152.4	111.0	13.5	57.2	28.7	34.8	63.5	11.2	107.95 107.90	417.8	63.5	28.58	6.35 X 3.18	366.3	12.7	184.4	208.3	120.9	14.2
LQE4195 LSE4195	in.	8.50	7.00	3.00	2.75	7.24	5.00	0.53	3.25	1.50	1.25	2.75	0.51	5.250 5.248	19.03	3.50	1.437	.38 X .19	19.88	0.62	9.66	9.88	4.76	0.56
	mm	215.9	177.8	76.2	69.9	183.9	127.0	13.5	82.6	38.1	31.8	69.9	13.0	133.35 133.30	483.4	88.9	36.5	9.65 X 4.83	505.0	15.7	245.4	251.0	120.9	14.2

Q Through QS 4195 (Pump Only)



MODEL	A	B	D	E	F	G	H	J	K	L	M	N	O	S	T	U	V	W	X	Y
Q4195	in.	10.50	8.75	4.25	3.00	10.35	5.75	0.69	4.36	3.25	2.00	4.00	0.62	25.26	4.44	1.937	.50 X .25	23.81	0.92	10.83
QS4195	mm	266.7	222.3	108.0	76.2	262.9	146.1	17.5	110.7	82.6	50.8	101.6	15.7	641.6	112.8	49.20		604.8	23.4	275.1

VIKING PUMP ADVANTAGE



**MOTOR
SPEED**
SMALLER. FASTER. EASIER.

Viking Pump has been a global leader in positive displacement pumping solutions since 1911. With a vertically integrated manufacturing process, we have the tools, processes and systems to produce our products in-house; from the initial engineering analysis, through design layout, foundry casting and machining, to final assembly/testing and shipping. Viking pump is uniquely designed for the task at hand, from simple solutions to your most advanced and demanding needs.



WATCH THE VIDEO



Learn more about Viking Pump's extended line of Motor Speed pumps.

Scan this QR code or visit
VIKINGPUMP.COM/MOTORSPEED-VIDEO



VIKING PUMP

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