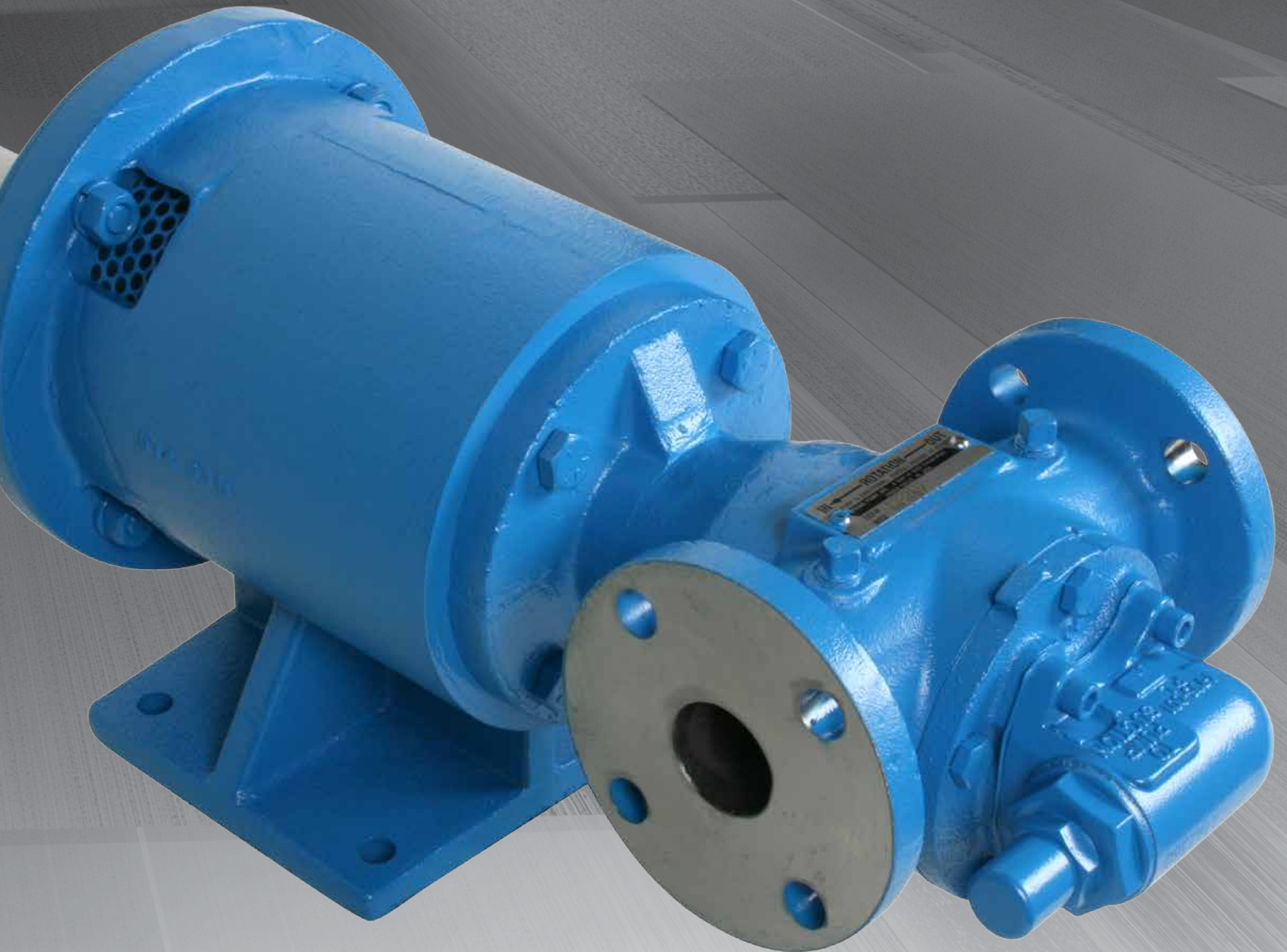


# 893, 895 & 897 MAG DRIVE PUMPS

SEALLESS PUMPS FOR CRUCIAL  
LIQUID CONTAINMENT APPLICATIONS



**Capacity**  
to 75 GPM (17 m<sup>3</sup>/h)



**Pressure**  
to 125 PSI (8.5 BAR)



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



**Temperature**  
-60°F to +500°F (-50°C to +260°C)

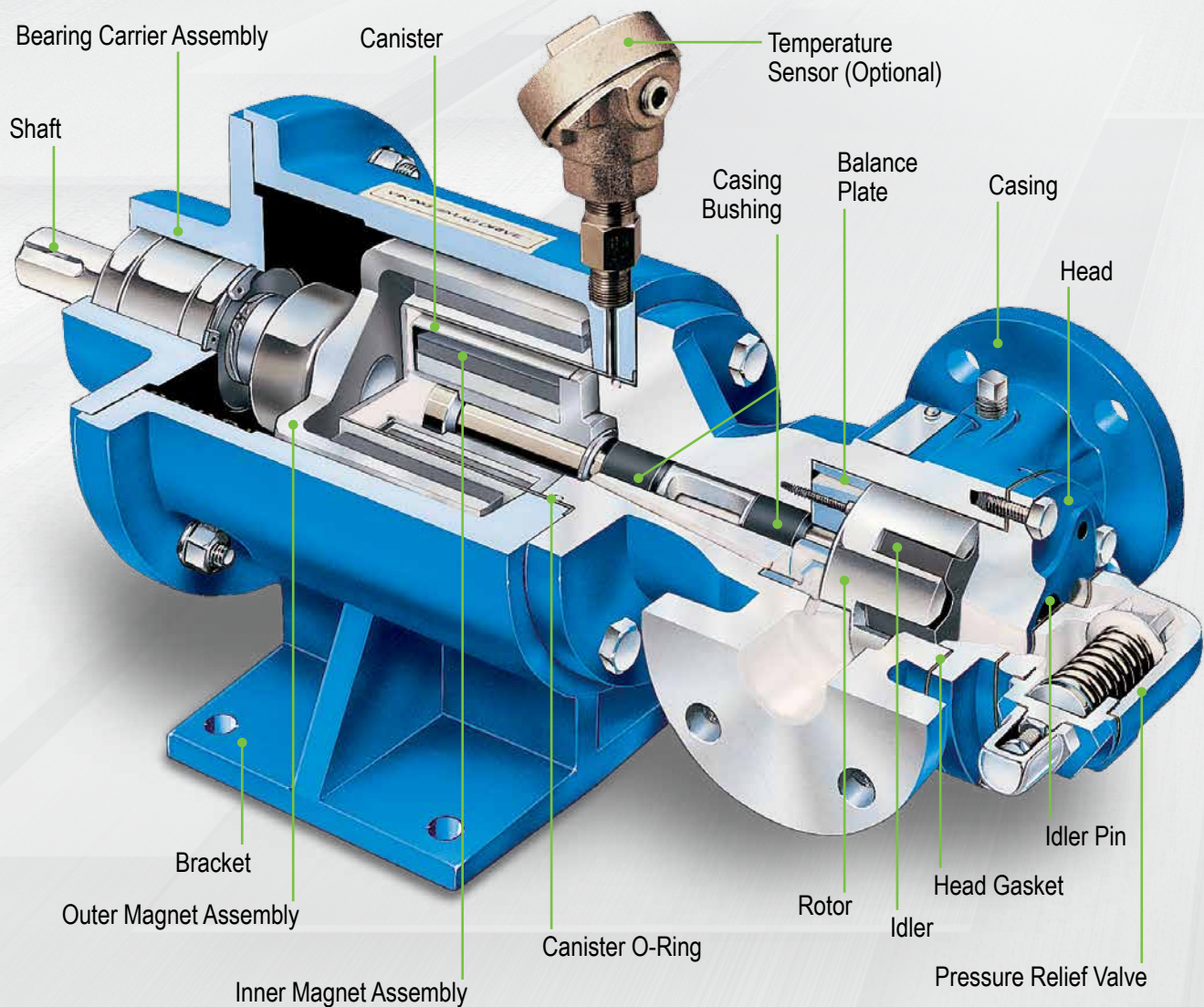
**VIKING PUMP**  
A Unit of IDEX Corporation



# FEATURES & BENEFITS

The Viking Mag Drive is ideal for transferring hard-to-seal liquids, hazardous liquids and expensive liquids by eliminating the need for shaft seals. It reduces the overall cost of ownership by:

- Eliminating downtime associated with mechanical seal failures and repairs
- Reducing costs associated with monitoring of EPA-regulated liquids
- Eliminating the spillage of expensive liquids due to shaft seal leakage and failures
- Eliminating the high initial cost and ongoing maintenance of complex seals and auxiliary equipment





# MATERIALS OF CONSTRUCTION

Component		Cast Iron   Series 895	Steel Externals   Series 893	Stainless Steel   Series 897
Casing		Cast Iron, ASTM A48, Class 35B	Steel, ASTM A216, Grade WCB	Stainless Steel, ASTM A 743, Grade CF8M
Head		Cast Iron, ASTM A48, Class 35B	Steel, ASTM A216, Grade WCB	Stainless Steel ASTM A 743, Grade CF8M Case Hardened
Idler	Standard	④ PPS Composite	④ PPS Composite	④ PPS Composite
	Optional Material	① Cast Iron	② Cast Iron	Non-Galling Stainless
Rotor	Standard	② Ductile Iron	② Ductile Iron	Stainless Steel ASTM A 743, Grade CF8M Case Hardened
	Steel Fitted	③ Steel, ASTM A148, Grade 80-50	③ Steel, ASTM A148, Grade 80-50	NA
Rotor Shaft		Hardened Steel ASTM A108, Grade 1045	Hardened Steel ASTM A108, Grade 1045	Hard Coated Stainless Steel ASTM A276 Type 316 Hard Coated
Idler Pin		Hardened Steel ASTM A108, Grade 1045	Hardened Steel ASTM A108, Grade 1045	Hard Coated Stainless Steel ASTM A276 Type 316 Hard Coated
Idler & Casing Bushing	Standard	Carbon Graphite	Carbon Graphite	Carbon Graphite
	Optional Material	Hardened Cast Iron, Silicon Carbide	Hardened Cast Iron, Silicon Carbide	Silicon Carbide
Internal Pressure Relief Valve		Cast Iron, ASTM A48, Class 35B	Steel, ASTM A216, Grade WCB	Stainless Steel, ASTM A 743, Grade CF8M
Canister		⑤ 316L Stainless Steel	⑤ 316L Stainless Steel	⑤ 316L Stainless Steel
Coupling Magnets	Standard	Neodymium Iron Boron	Neodymium Iron Boron	Neodymium Iron Boron
	Optional Material	Samarium Cobalt	Samarium Cobalt	Samarium Cobalt
O-rings	Standard	Viton®	Viton®	PTFE (Derivative) Encapsulated
	Optional Materials	PTFE (Derivative) Encapsulated, Kalrez®	PTFE (Derivative) Encapsulated, Kalrez®	Viton®, Kalrez®

- ① GG, HL & HL sizes use powdered metal.  
GG uses steel idler when steel fitted pump is required.
- ② GG & HJ sizes use cast iron rotor.
- ③ Hardened steel rotor will be provided on GG & HJ sizes.  
GG uses steel idler when steel fitted pump is required.
- ④ Standard material is Polyphenylene Sulfide with composite material.  
Recommend using metal idler above 10,000 SSU.
- ⑤ MD-A canisters are 316 stainless steel.
- Viton® and Kalrez® are registered trademarks of E.I. du Pont de Nemours and Company.

# PUMP SPECIFICATIONS

Model	Port Size	Nominal Pump Rating				① Magnetic Coupling Availability			② Maximum Temperature (Standard Construction)		Maximum Hydrostatic Pressure		Approx. Pump Shipping Weight With Valve (Less Power)		④ Approx. Coupling Only Shipping Weight (ready to accept, but less power)	
		@ 1800 RPM		@ 1200 RPM		Series	Torque		°F	°C	PSIG	BAR	Lbs.	Kg.	Lbs.	Kg.
		GPM	m³/h	GPM	m³/h		Ft-Lbs	Nm								
GG-897 GG-893 GG-895	1	10	2.3	7	1.6	MD-A	4 or 9	5.4 or 12.2	225	93	400	28	22	10	31	14
HJ-897 HJ-893 HJ-895	1½	20	4.5	13	3	MD-A or MD-B	4 or 9	5.4 or 12.2	225	93	400	28	30	14	31	14
HL-897 HL-893 HL-895	1½	30	6.8	20	4.5	MD-A or MD-B	40	54	225	93	400	28	30	14	71	32
AS-897 AS-893 AS-895	③ 3	—	—	35	8	MD-B or MD-C	40 or 80	54 or 108	225	93	400	28	78	35	71	32
AK-897 AK-893 AK-895	③ 3	—	—	50	11	MD-B or MD-C	40 or 80	54 or 108	225	93	400	28	78	35	71	32
AL-897 AL-893 AL-895	3	—	—	75	17	MD-B or MD-C	40 or 80	54 or 108	225	93	400	28	78	35	95	43

- ① See Performance Curves, which can be electronically generated with the Viking Pump Selector Program, located on [www.vikingpump.com/pumpselector](http://www.vikingpump.com/pumpselector), for specific coupling recommendation on other pressures and viscosities. See page 13 for "Selecting the correct Mag Drive coupling."
- ② Higher temperatures can be handled with Samarium Cobalt magnets. Consult factory.
- ③ "AS" and "AK" Series 895 have 2½" NPT tapped ports.
- ④ For bearing carrier weights add 8 lbs (2 KG) for "MD-A" size, add 17 lbs (4 KG) for "MD-B" size.

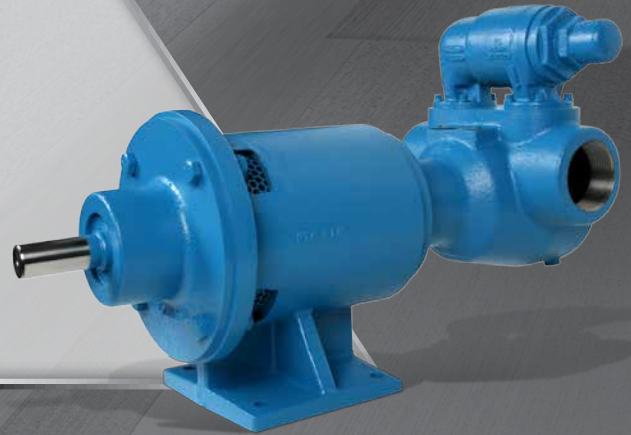


# VIKING PUMP

## Industry & Application Experts

- Application experience spanning more than 100 years
- Original inventors of the internal gear pumping principle
  - Reliability, quality and performance
  - Global service and support

GLOBAL  
**LEADER**  
IN POSITIVE DISPLACEMENT  
**PUMPING**  
SOLUTIONS



## VERTICALLY INTEGRATED PRODUCTION PROCESS:



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, machining, final assembly, testing and shipping. Viking pumps are uniquely designed for the task at hand, from simple solutions to your most advanced and demanding needs.



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