

SPECTROM™

UNIVERSAL GEAR PUMPS

Spectrom™ is proud to announce the release of Spectrom™ Universal Internal Gear pumps. Spectrom's heavy duty cast iron gear pumps are completely retrofittable to Viking's Universal 124A and 4124A gear pumps.

Spectrom's heavy-duty cast iron gear pumps are designed for the toughest industrial applications. The gear pumps are offered with a variety of connections from 38 mm (1-1/2") through 76 mm (3"). The gear pump internal components are available with multiple material options for the idlers, bushings, and seals.

All of the models released are designed to drop directly into equivalent Viking® Series 124A and 4124A applications, meeting all foot print and piping configurations. The Spectrom™ Universal Internal Gear pumps have the same inlet/discharge connections, bolt down patterns and shaft end size/positioning equivalent to Viking® models. Spectrom's complete "bolt for bolt" retrofittable design will assist in expediting the change out process to minimize the customer's downtime.

Design Features:

- Connection Sizes:
 - NPT Threaded: 38 mm (1-1/2"), 51 mm (2")
 - ANSI Flanged: 64 mm (2-1/2") and 76 mm (3")
- Viking® equivalent models: H, HL, K, KK, L, LQ and LL
 - Seal Types:
 - Packed (124A)
 - Mechanical Seal (4124A)
- Casing Material: Cast Iron
- Max Operating Pressure: 13.8 bar (200 psig)
NOTE: Standard spring option is 6.9 bar (100psig). For higher pressure applications consult factory.
- Max Operating Temperature
 - Packed: 149 °C (300 °F)
 - Mechanical Seal: 100 °C (212 °F)
- All SAE fasteners

Spectrom™ Advantage:

- List prices for pumps are 15% below Viking® equivalent standard products
- Standard delivery is 2 weeks or less

Enclosures:

- Engineering, Operations & Maintenance Manuals (EOM)

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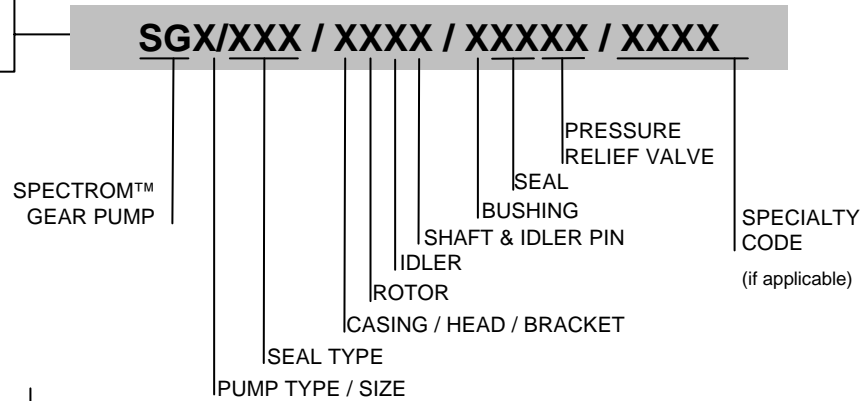
Spectrom™ Internal Gear Pump FAQs

- Q1: How does the performance of the Spectrom™ Universal Internal Gear pumps compare with the equivalent Viking® model?**
- Flow rates, pressure ratings and temperature ratings are equal to Viking®
- Q2: What are the Spectrom™ Universal Internal Gear pump materials of construction compared to the equivalent Viking® models?**
- Spectrom™ models offer the same casing, idler, rotor, shaft, seals and packing materials of construction.
- Q3: Can Spectrom™ Universal Internal Gear pumps be purchased with motors and bases?**
- Spectrom™ units are available as bare shaft pumps only at this time.
 - Base plates, motors, gear assemblies, couplings and guards must be provided through alternative sources.
- Q4: What is the purpose of the pressure relief valve (PRV) option in a Spectrom™ Universal Internal Gear pump?**
- The integrated PRV allows for protection of the pump when discharge pressure exceeds the system maximum pressure. This is accomplished by allowing excess fluid pressure to pass through the PRV when the pressure reached exceeds the maximum spring setting.
 - Under no circumstances should an internal PRV be used in place of a system relief valve.
 - All Spectrom™ Universal Internal Gear pumps come standard with a spring rated to 6.9 bar (100 psig). Consult factory for spring options above 6.9 bar (100 psig)
- Q5: Can the Spectrom™ Internal Gear pump be run dry without damage?**
- Gear pumps are lubricated by the process media and must never be run dry.
- Q6: Can the Spectrom™ Universal Internal Gear pumps be run in reverse?**
- Yes, however, it is strongly suggested that the PRV assembly orientation be reversed to ensure proper pressure relief valve operation.
- Q7: Can the Spectrom™ Universal Internal Gear pump handle any solids in the process media?**
- It is not suggested to have any solids in the media as it will prematurely wear the rotor and idler.
- Q8: Where do I find spare parts for my Spectrom™ or Viking® Universal Internal Gear pump?**
- See www.spectromparts.com or consult factory.
- Q9: Who should I contact for technical questions or assistance with Spectrom™ Universal Gear pumps?**
- Primary Contact - Frank Palucci – Typhoon™ Global Product Manager
 - frankp@wildenpump.com
 - Secondary Contact – Darren Cherry – Spectrom™ Sales Manager
 - darren.cherry@spectromparts.com
- Q10: Who should I contact for sales questions with Spectrom™ Universal Gear pumps?**
- Primary Contact – Darren Cherry – Spectrom™ Sales Manager
 - darren.cherry@spectromparts.com
 - Secondary Contact – Frank Palucci – Typhoon™ Global Product Manager
 - frankp@wildenpump.com



SPECTROM PUMP DESIGNATION SYSTEM

GEAR PUMPS



MATERIAL CODES

PUMP TYPE / SIZE

H = 38mm (1-1/2") Threaded Inlet/Discharge
 HL = 38mm (1-1/2") Threaded Inlet/Discharge
 K = 51mm (2") Threaded Inlet/Discharge
 KK = 51mm (2") Threaded Inlet/Discharge
 L = 51mm (2") Threaded Inlet/Discharge
 LQ = 64mm (2-1/2") Flanged Inlet/Discharge
 LL = 76mm (3") Flanged Inlet/Discharge
Note: All models above are 124A or 4124A Series

SEAL TYPE

124A = Packed
 4124A = Mechanical Seal

CASING/HEAD/BRACKET MATERIAL

C = Cast Iron

ROTOR

B = Bronze
C = Cast Iron (available in SGK, SGL, SGLQ and SGLL models)

IDLER

C = Cast Iron

SHAFT & IDLER PIN

M = Steel 4140T

BUSHING

B = Bronze
C = Carbon Graphite
(Available for pumps with mechanical seals)

SEAL (SEAL RING BY MATING RING)

T = Non-asbestos synthetic fiber (packed only)
 BC = NBR Carbon vs Ceramic¹
 VC = Viton® Carbon vs Ceramic¹

PRESSURE RELIEF VALVE

G2 = Cast Iron [0.0-6.9 bar (0.0-100psig)]
Note: For pressures over 6.9 bar (100 psig) consult factory

Model	Nominal Pump Rating			Steel-fitted Units Above This Viscosity (SSU)	Max. Recommended Discharge Temperature		Max. Recommended Temperature			
							Packed		Mechanical Seal	
	LPM	GPM	RPM		BAR	PSIG	°C	°F	°C	°F
SGH	57	15	1,800	25,000	13.8	200	149	300	100	212
SGHL	114	30	1,800	7,500	13.8	200	149	300	100	212
SGK	284	75	780	25,000	13.8	200	149	300	100	212
SGKK	379	100	780	25,000	13.8	200	149	300	100	212
SGL	511	135	640	25,000	13.8	200	149	300	100	212
SGLQ	511	135	640	25,000	13.8	200	149	300	100	212
SGLL	530	140	520	2,500	13.8	200	149	300	100	212

¹Special order option. May require additional lead times.

²Standard temperature ratings on seals and packing. For higher temperatures consult factory.

NOTE: **BOLD** items above are typically stocked materials.

SPECTROM™ UNIVERSAL GEAR PUMPS



Current Description	Item Number	List Price
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38 mm (1-1/2")

SGH/124A/CCCM/BTG2	SG-11009	\$788.00
SGH/4124A/CCCM/CBCG2	SG-11018	\$1,083.00
SGH/4124A/CCCM/CVCG2	SG-11027	\$1,119.00
SGHL/124A/CCCM/BTG2	SG-11010	\$802.00
SGHL/4124A/CCCM/CBCG2	SG-11019	\$1,097.00
SGHL/4124A/CCCM/CVCG2	SG-11028	\$1,132.00

51 mm (2")

SGK/124A/CCCM/BTG2	SG-11013	\$1,207.00
SGK/4124A/CCCM/CBCG2	SG-11022	\$1,447.00
SGK/4124A/CCCM/CVCG2	SG-11031	\$1,498.00
SGKK/124A/CCCM/BTG2	SG-11014	\$1,257.00
SGKK/4124A/CCCM/CBCG2	SG-11023	\$1,497.00
SGKK/4124A/CCCM/CVCG2	SG-11032	\$1,548.00

64 mm (2-1/2")

SGL/124A/CCCM/BTG2	SG-11015	\$1,518.00
SGL/4124A/CCCM/CBCG2	SG-11024	\$1,758.00
SGL/4124A/CCCM/CVCG2	SG-11033	\$1,809.00
SGLO/124A/CCCM/BTG2	SG-11016	\$1,680.00
SGLO/4124A/CCCM/CBCG2	SG-11025	\$1,919.00
SGLO/4124A/CCCM/CVCG2	SG-11034	\$1,970.00

76 mm (3")

SGLL/124A/CCCM/BTG2	SG-11017	\$1,807.00
SGLL/4124A/CCCM/CBCG2	SG-11026	\$2,047.00
SGLL/4124A/CCCM/CVCG2	SG-11035	\$2,098.00