

ECO BOLT-ON JACKETS

FOR CLOSE TEMPERATURE CONTROL

GENERAL

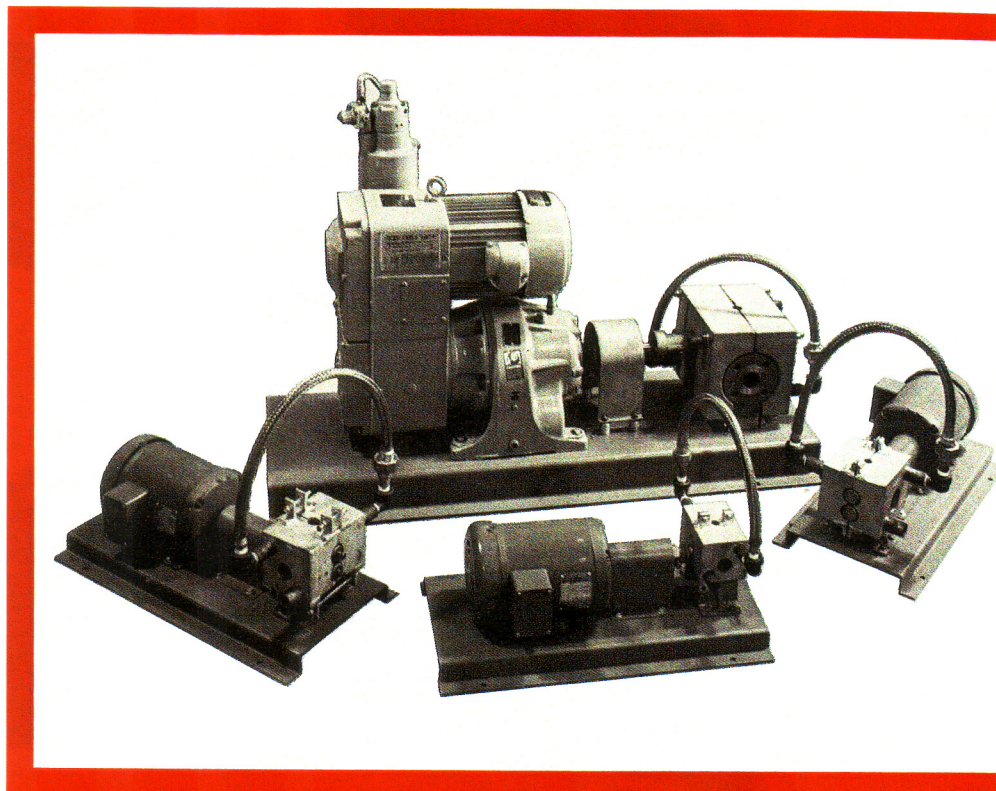
BOLT-ON JACKETS are available for Eco Gearchem® pumps to enable the user to maintain close control of pumping temperatures. The jackets are particularly useful where fluids tend to thicken or solidify when temperatures decrease, where saturated or supersaturated solutions are prone to precipitation in the event of temperature drop, or where solvents or other liquids with high vapor pressures need to be kept cool to prevent vapor locking.

The two-piece jackets can be mounted on new pumps or retrofitted to existing Gearchem pumps in the field. They are available in five sizes to fit G2/GA2 and G4/GA4 pumps, G6/GA6 pumps, G8/GA8 pumps and flanged GA12 and GA16 pumps. Jackets can also be used with threaded GA12 pumps at slightly lower heat transfer efficiencies.

Designed to conform closely to the contours of the various pumps, and covering front, rear and center housings, the jackets transfer heat evenly with no hot or cold spots developed. The use of a plastic heat transfer compound to fill any slight voids between the jacket halves and the pump housings is recommended for maximum efficiency and rapid response to temperature changes when so required.

EASY MAINTENANCE FEATURED

Pumps equipped with jackets are easily accessible for routine maintenance, since the two jacket halves can slide easily over suction and discharge piping. Access to pump bearing flush ports as well as center housing vent ports is maintained in the jacket design. Eliminated is cumbersome and inefficient heat tracing using either electrical tape or small, hard-to-bend steam lines, which must be removed — sometimes with difficulty — prior to pump maintenance.



DESIGNED FOR STEAM OR OTHER MEDIA

Each jacket half consists of an aluminum casting poured around a central steel reservoir through which the heating or cooling medium circulates. Connections to the reservoir are brought to the outside using standard steel pipe couplings. A braided, flexible, metallic hose connects the two jacket halves.

The jackets are hydrostatically tested to 225 psig and the heating medium may be steam at pressures to 150 psig, or any of the organic heat transfer fluids such as Dowtherm®, Arochlor®, Theminol®, Mobiltherm®, etc. Coolants such as Fluorocarbons, glycols, methanols or brine solutions may also be used.

IMPORTANT COST SAVINGS

Because of the relative small size of ECO Gearchem pump housings, it is impractical to cast jackets integrally with

the housings. However, even if this were not the case, replacement costs for housings of 316 stainless steel, alloy 20 or high-nickel alloy C due to corrosion or wear would be very expensive. The bolt-on jackets can be re-used, or even moved from pump to pump as requirements change.

TYPICAL APPLICATIONS

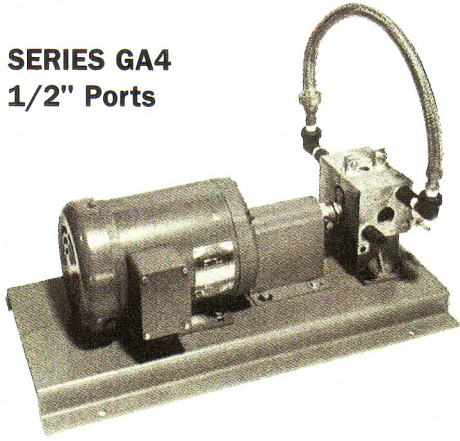
Jackets are recommended in outdoor applications for caustics, heavy acids, fatty glycerols, alum, polyols, resins, coal tar derivatives and similar products. They also are useful when handling adhesives, plasticizers, waxes, hot soap solutions, bottoms in distillation systems and wiped film evaporators, and other situations where fluids must be kept at elevated temperatures.

When handling low boilers, pump jackets with a cooling medium can often solve a vapor lock problem without the need to change the driver to give a lower pump operating speed.

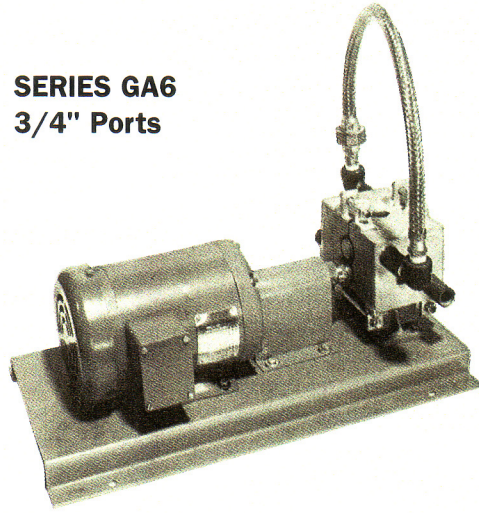
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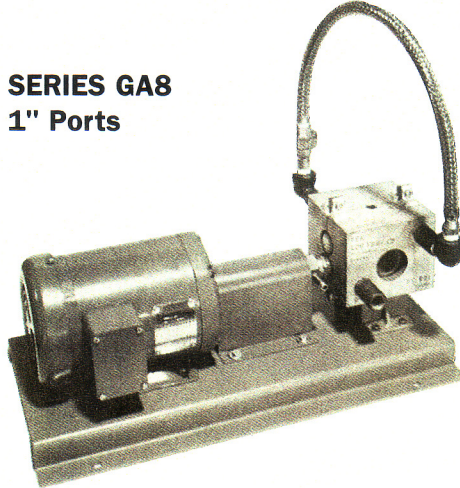
SERIES GA4
1/2" Ports



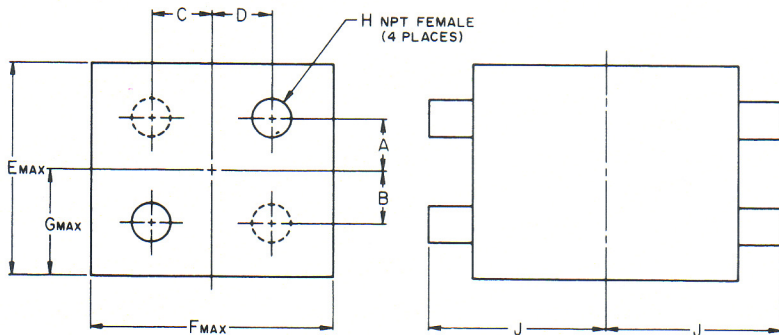
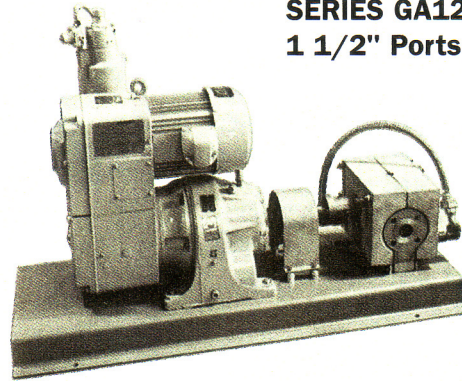
SERIES GA6
3/4" Ports



SERIES GA8
1" Ports



SERIES GA12
1 1/2" Ports



SIZE	A	B	C	D	E	F	G	H	J	APPROX WT (LBS)
G2/GA2	1 ⁵ / ₁₆	3/4	1 ³ / ₁₆	1 ³ / ₁₆	4 ³ / ₈	4 ⁵ / ₈	1 ³ / ₈	3/8	3 ¹¹ / ₁₆	5
G4/GA4	1 ⁵ / ₁₆	3/4	1 ³ / ₁₆	1 ³ / ₁₆	4 ³ / ₈	4 ⁵ / ₈	1 ³ / ₈	3/8	3 ¹¹ / ₁₆	5
G6/GA6	1 ¹ / ₂	3/4	1 ¹ / ₄	1 ¹ / ₂	6 ⁷ / ₁₆	4 ¹ / ₂	3 ¹ / ₄	1/2	4 ⁹ / ₁₆	11
G8/GA8	1 ⁵ / ₈	1 ¹ / ₄	1 ¹ / ₈	1 ³ / ₄	6 ⁹ / ₁₆	5 ³ / ₄	3	1/2	4 ¹ / ₄	10
GA12	3	2 ¹ / ₈	3 ³ / ₈	3 ³ / ₈	8 ¹ / ₂	13 ³ / ₈	3 ³ / ₄	1/2	5 ⁷ / ₁₆	46
GA16	3 ³ / ₄	3 ³ / ₄	3 ¹¹ / ₁₆	3 ¹¹ / ₁₆	10 ³ / ₄	12 ³ / ₄	6	1/2	13 ¹ / ₂	55

NOTE: E, F AND G DIMENSIONS ARE MAXIMUM OVER JACKET MOUNTING TABS, COUPLING POSITIONS IN QUADRANTS SHOWN, EXCEPT FOR GA6 JACKET WHERE POSITIONS ARE REVERSED.

PULSAFEEDER

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