

POSITIVE DISPLACEMENT ROTARY GEAR PUMP

PA300C

3" Ductile Iron Rotary Gear Pump

SELF-PRIMING

BI-DIRECTIONAL

FIELD SERVICEABLE

MADE IN USA



3"

PORT SIZE, NPT

158 GPM

MAX FLOW @ 280 RPM

100 PSI

MAX PRESSURE

280 RPM

MAX SPEED

173 lbs

NET WEIGHT

OVERVIEW

The PA300C is a 3" port positive displacement rotary gear pump with a ductile iron housing and nitrile gears. It moves petroleum products, adhesives, coatings and industrial fluids at up to 158 GPM and 100 PSI, and is fully rebuildable in the field with standard hand tools.

Ductile iron is the economical choice wherever the fluid is not corrosive. For emulsion, chemical or food-grade duty, see the stainless PA300S — or the full stainless vs. ductile iron comparison. For background on the pumping principle, see what a rotary gear pump is.

TYPICAL APPLICATIONS

Petroleum processing

Fuel & lubricant transfer

Adhesive manufacturing

Paints & coatings

Asphalt & waste oil

Mining & explosives

Industrial fluid transfer

PERFORMANCE — WATER @ 280 RPM

SG 1.0 • AMBIENT

RPM	PSI	GPM	FLOW	BRAKE HP
280	10	158		1.5
280	30	147		4.2
280	50	145		6.9
280	70	142		9.4
280	100	140		13.4

Higher-viscosity fluids may require lower RPM. Flow bars are scaled to the 158 GPM maximum.

CONFIGURATION

HOUSING

Ductile Iron

Economical, non-corrosive duty

GEARS (STD)

Nitrile

Petroleum & industrial

GEAR OPTIONS

Viton®

For aggressive chemicals

PORTS

3" NPT

Threaded ANSI flange

ROTATION

Bi-Directional

CW / CCW line clearing

MATERIALS OF CONSTRUCTION

Housing	Ductile Iron
Shaft	Ductile Iron
Gears (standard)	Nitrile
Gears (optional)	Viton®
Port gaskets	Asbestos-free paper
High pressure seals	Viton®
Low pressure seals	Viton®
Bearings	Roller

CONNECTIONS, WEIGHTS & SHIPPING

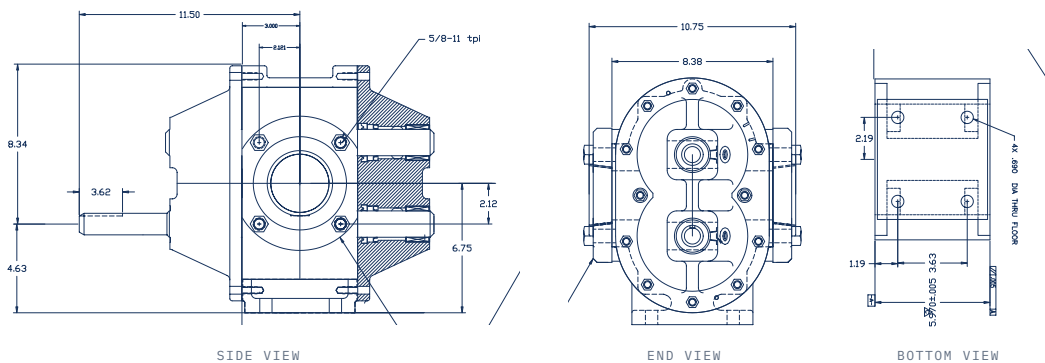
Net weight	173 lbs
Shipping (boxed)	13" x 19" x 16"
Packed weight	176 lbs
Port connection	3" NPT
Shaft end thread	5/8-11 TPI
Mounting holes	4 x Ø0.690" thru

SEAL & GASKET PART NUMBERS

PM036	High pressure seal — 4 req.
PM037	Low pressure seal — 4 req.
PM007G01	Centercase gasket — 0.016"
PM007G02	Centercase gasket — 0.008"
PM038	Roller bearing — 4 req.

REFERENCE DRAWINGS

INCHES · NOT FOR FABRICATION



Drive shaft may be fitted in either position.



REBUILD, DON'T REPLACE
PK300C — 3" Ductile Iron Repair Kit

Drive and idler gear assemblies, all high- and low-pressure seals, all bearings, and a full gasket set — everything needed to restore the pump to original factory specification.

REBUILD TIME	COST VS. NEW PUMP
2-5 hours, hand tools	30-50% less

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