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SERIES: GA5-1

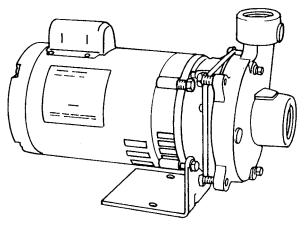
GA5-1-1/4, GA5N-1-1/4

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•	REPLACES	12/01

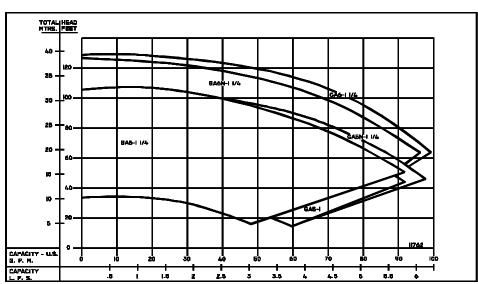
SECTION

GA6-1-1/4, GA6N-1-1/4

CLOSED COUPLED CENTRIFUGAL PUMPS

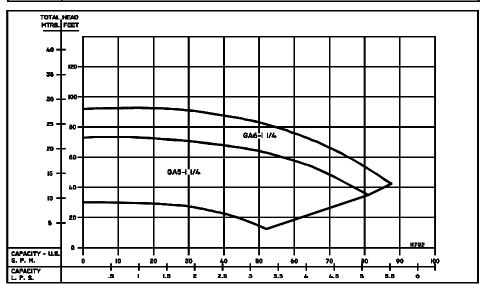


3500RPM - 60Hz. **CAPACITIES TO 100GPM (6.3LPS) HEADS TO 130 FEET (39.6M)**



2900RPM - 50Hz. **CAPACITIES TO 83GPM (5.2LPS) HEADS TO 89 FEET (27M)**

Individual performance curves should be checked for final selection.





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FEATURES

• FOUR POSITION CASING

Discharge can be located in any of four positions. Casing is close grain iron of 30,000 psi minimum tensile strength. Back pull-out design eliminates the need to disturb piping should the pump ever require service - the casing stays in the line.

ENCLOSED BRONZE IMPELLER

Of the latest hydraulic design for maximum efficiency, impeller is balanced for vibration-free operation and threaded onto stainless steel motor shaft.

ENCLOSED GLASS FILLED NORYL® IMPELLER*

Of the latest hydraulic design for maximum efficiency, impeller has molded in brass insert threaded onto stainless steel motor shaft. *Noryl® Impeller is not designed for use with hydrocarbons.

MECHANICAL SHAFT SEAL

Standard self-adjusting shaft seal for temperatures to 225°F (107°C) and pressures to 150 psi (1034 kpa). Ceramic seat and carbon seal face for long trouble-free service. Special seals are available for higher temperatures and fluids other than water.

MOTORS

Standard pump motors are of open drip proof (ODP) construction and are rated with jet pump service factors for continuous duty operation. Motors are 56 frame size with NEMA standard mounting flange, one piece threaded stainless steel shaft and ball/ball bearing construction.

FACTORY TESTED

After careful assembly and inspection, **EVERY** pump is factory tested and meets Hydraulic Institute standards.

MAXIMUM OPER	ATING CONDITIO	NS
TEMPERATURE (For Standard Buna-N Seal)	225°F (107°C) BRONZE	175°F (79°C) NORYL®
INLET PRESSURE	100 PSI ((690 kpa)
CASING WORKING PRESSURE	200 PSI (1379 kpa)

MOTOR INFORMATION

60 Hz - 3500 RPM - ODP

Single Phase: 1/3 thru 2 Hp. - 115/230 Volt

3 Hp. - 230 Volt only

Three Phase: 1/3 thru 3 Hp. - 208-230/460 Volt

50 Hz - 2900 RPM - ODP Single Phase: 110/220 Volt Three Phase: 380 Volt

Voltages may differ from some suppliers. Consult factory. **Overload Protection:** All single phase ODP and Totally Enclosed motors have built-in overload protection. All three phase motors and all explosion proof motors must be installed with a magnetic starter which provides full 3-leg protection. Failure to use correct starter and overloads will void motor warranty.

JACKETED SEAL CAVITY FOR TEMPERATURES TO 500°F (260°C).

Series GA5-1 & GA5-1¹/₄ Pumps are available in a Jacketed Seal Cavity design for pumping hot oil, hot water and heat transfer fluids in common use in high temperature heating or cooling applications. This feature greatly extends seal life in high temperature applications. To order, add suffix "MJ" to pump catalog number for temperatures to 500°F (260°C) See Section on High Temperature Pumps for more information.

MATERIALS OF CONSTRUCTION

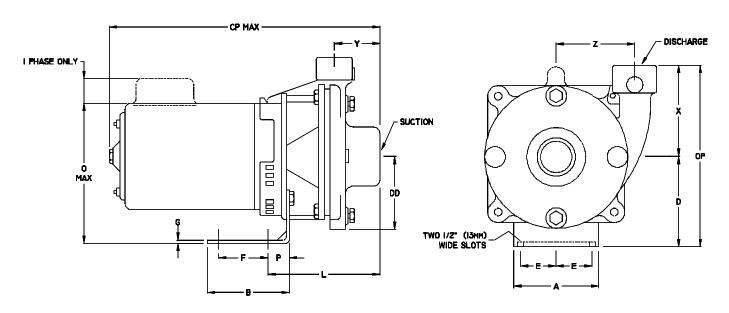
PART	ALL IRON	BRONZE FITTED	ALL BRONZE	NORYL® FITTED
Adapter	Cast Iron	Cast Iron	Bronze	Cast Iron
Casing	Cast Iron	Cast Iron	Bronze	Cast Iron
Shaft	#303 Stainless	#303 Stainless	#303 Stainless	#303 Stainless
Impeller	Cast Iron	Bronze	Bronze	Glass Filled Noryl
Shaft Seal	Carbon-Ceramic S. Steel-Buna-N	Carbon-Ceramic S. Steel-Buna-N	Carbon-Ceramic S. Steel-Buna-N	Carbon-Ceramic S. Steel-Buna-N





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DIMENSIONS



						DIM	ENSIO	NS IN	INCHE	s								
CATALOG NUMBER	MOTOR FRAME SIZE	DISCH NPT	SUCT. NPT	A	В	СР	D	DD	Ш	F	G	Г	0	OP	P	Х	Υ	Z
GA5-1	56	1	1 ¹ / ₄	5 ³ / ₁₆	5	16 ⁷ / ₈	4 ³ / ₄	3 ³ / ₈	1 ¹⁵ / ₁₆	3	³ / ₁₆	5 ¹⁵ / ₁₆	8 ⁹ / ₁₆	9 ¹ / ₂	1 ⁵ / ₁₆	4 ¹¹ / ₁₆	2 ⁵ / ₈	3 ⁹ / ₁₆
GA5-1 ¹ / ₄	56	1 ¹ / ₄	1 ¹ / ₂	5 ³ / ₁₆	5	15 ¹¹ / ₁₆	4 ³ / ₄	3 ³ /8	1 ¹⁵ / ₁₆	3	³ /16	5 ¹⁵ / ₁₆	8 ⁹ /16	9 ¹ / ₂	1 ⁵ / ₁₆	4 ¹¹ / ₁₆	2 ⁵ /8	3 ³ / ₈
GA6-1 ¹ / ₄	56	1 ¹ / ₄	1 ¹ / ₂	5 ³ / ₁₆	5	15 ¹⁵ / ₁₆	4 ³ / ₄	3 ³ / ₄	1 ¹⁵ / ₁₆	3	³ / ₁₆	5 ¹³ / ₁₆	8 ⁹ / ₁₆	9 ¹ / ₂	1 ⁵ / ₁₆	4 ¹¹ / ₁₆	2 ⁵ / ₈	3 ³ / ₄

						DIMEN	SIONS	IN MI	LLIME	TERS								
CATALOG NUMBER	MOTOR FRAME SIZE	DISCH NPT	SUCT. NPT	Α	В	СР	D	DD	E	F	G	L	0	OP	Р	х	Y	Z
GA5-1	56	1	1 ¹ / ₄	132	127	429	121	86	49	76	4.7	151	217	241	33	119	67	90
GA5-1 ¹ / ₄	56	1 ¹ / ₄	1 ¹ / ₂	132	127	398	121	86	49	76	4.7	151	217	241	33	119	67	86
GA6-1 ¹ / ₄	56	1 ¹ / ₄	1 ¹ / ₂	132	127	398	121	95	49	76	4.7	148	217	241	33	119	67	95

DIMENSIONS SHOWN ABOVE ARE APPROXIMATE MAXIMUM DIMENSIONS FOR STANDARD PUMPS EQUIPPED WITH ODP MOTORS. Noryl option specifications same as above.

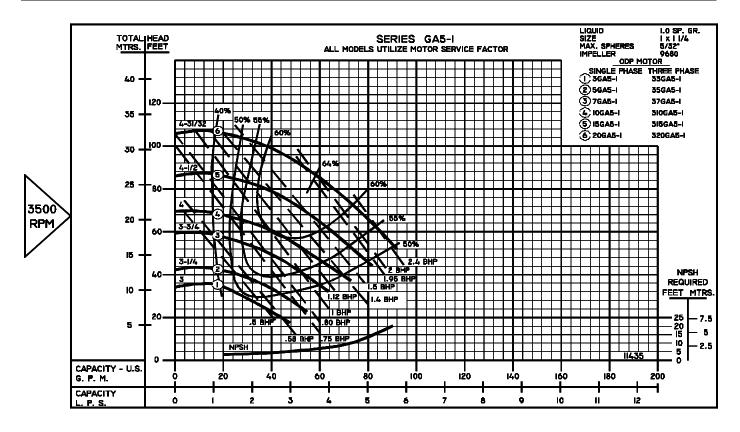
®Noryl is a registered trademark of General Electric.

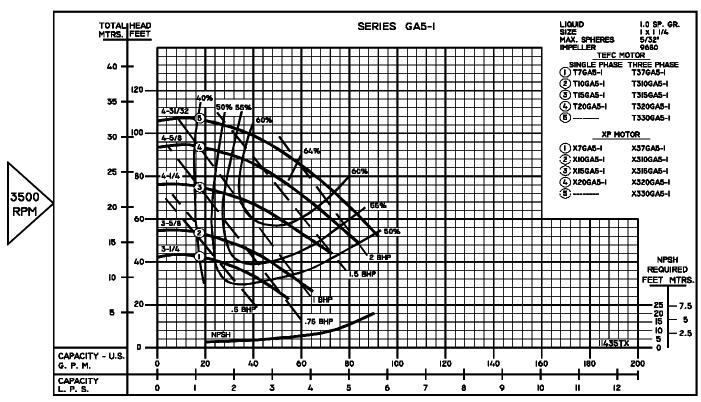
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60HZ PERFORMANCE CURVE



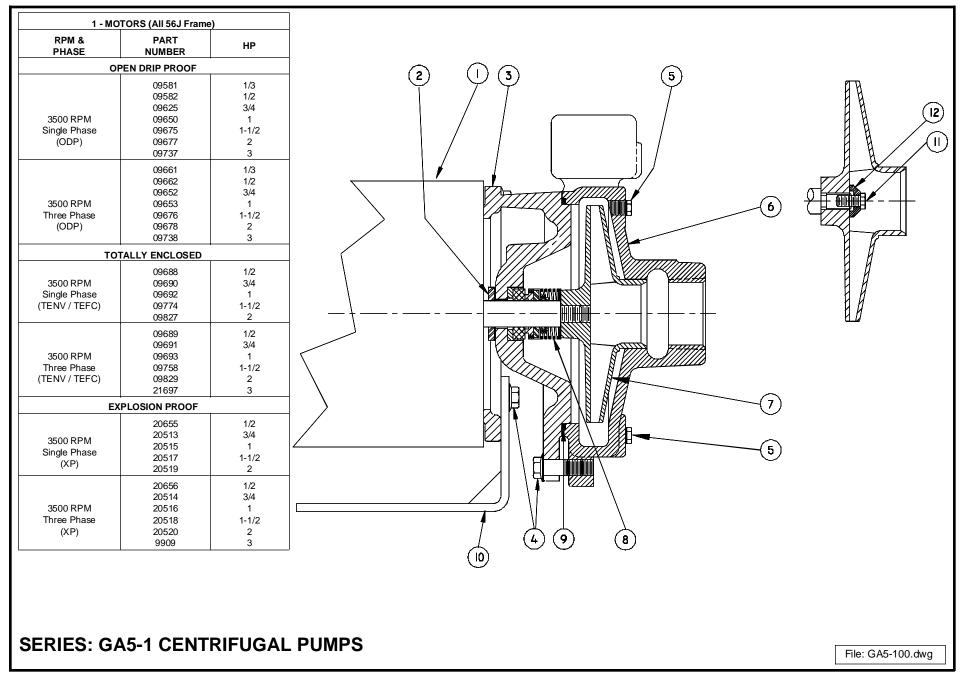
END SUCTION CENTRIFUGAL PUMPS







PUMPS & SYSTEMS



SYMBOL NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
2 3	08105 22752	1	Slinger Washer Adapter
4 5	21236 00158	8 2	Capscrew 3/8-16 UNC x 1" Plug 1/8-27 NPT
6	23279	1	Casing
7	09680-3.00 09680-3.25 09680-3.75 09680-4.00 09680-4.25 09680-4.97	1 1 1 1 1	Impeller, 3 & 33GA5-1 Impeller, 5 & 35GA5-1 Impeller, 7 & 37GA5-1 Impeller, 10 & 310GA5-1 Impeller, 15 & 315GA5-1 Impeller, 20 & 320GA5-1
8	08514 09762 20764-C	1	Mechanical Seal - Buna N Mechanical Seal - Viton Mechanical Seal - EPDM**
9	21333 21546 22058 22132	1	O-Ring - Buna N O-Ring - Viton O-Ring - Teflon O-Ring - EPDM **
10 11	22751 21182	1 1	Bracket Machine Screw 1/4-28 UNFX x 1/2" (3 Ph Only)
12	21181-C	1	Washer (3 Ph Only)

SYMBOL NUMBER	PART NUMBER	QUANTITY	DESCRIPTION
	DIFFERING PA	ARTS FOR AL	L BRONZE CONSTRUCTION
3 5 6	22752-A 01691-A 23279-A	1 2 1	Adapter Plug, 1/8" Casing
	DIFFERING	PARTS FOR A	LL IRON CONSTRUCTION
5 *7 12	00158 09680-C Dia. 21181-A	2 1 1	Plug 1/8-27 NPT Impeller Washer (3 Ph only)

^{*} Size suffixes same as standard bronze impellers.

SERIES: GA5-1

^{**}For hot water and caustic use.

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For technical advice or service please take your pump into your local pump service center
To order pump or parts or for pricing please go to the following links:
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Burks Pumps stock list >>
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