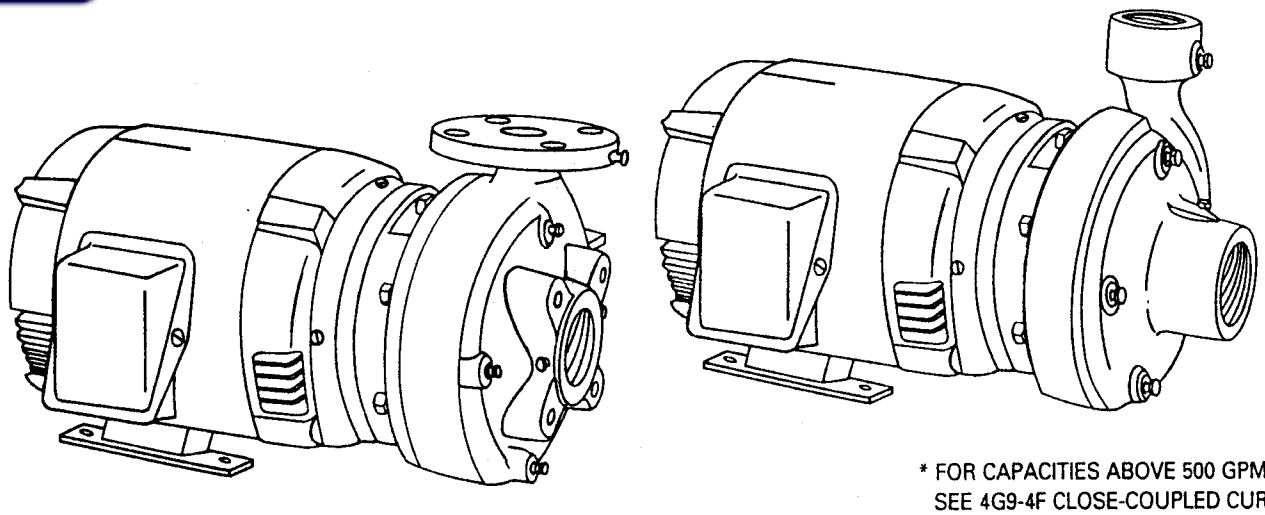
burks pumps.
P.O. Box 603 Piqua, OH 45356
(513) 773-2442 Fax: (513) 773-2238

SERIES G6-1½ thru 4G9-4F

SECTION	2B
PAGE	5
ISSUED	10/94
REPLACES	3/94

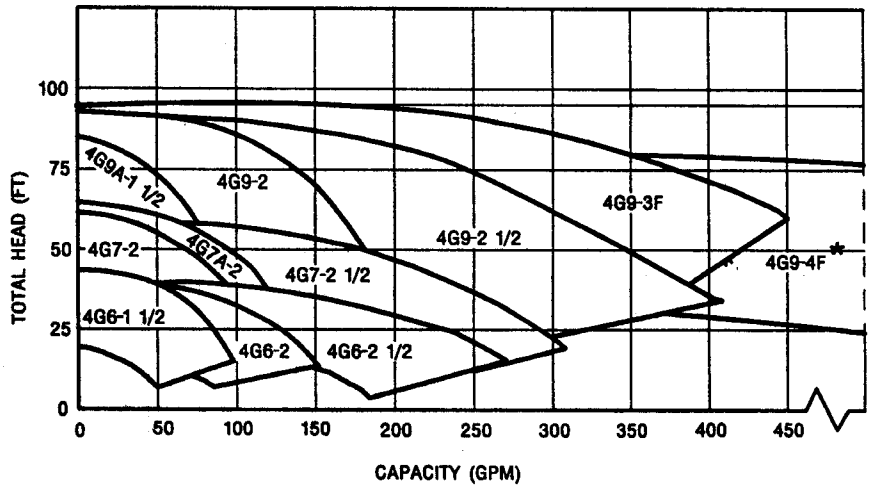
Depco Home

CLOSE COUPLED CENTRIFUGAL PUMPS

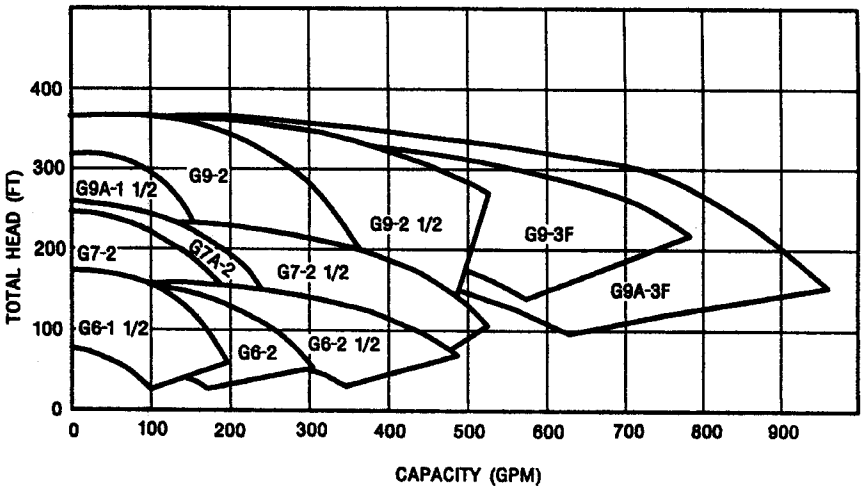


* FOR CAPACITIES ABOVE 500 GPM SEE 4G9-4F CLOSE-COUPLED CURVE.

1750 RPM
CAPACITIES TO 1100 GPM
HEADS TO 95 FEET



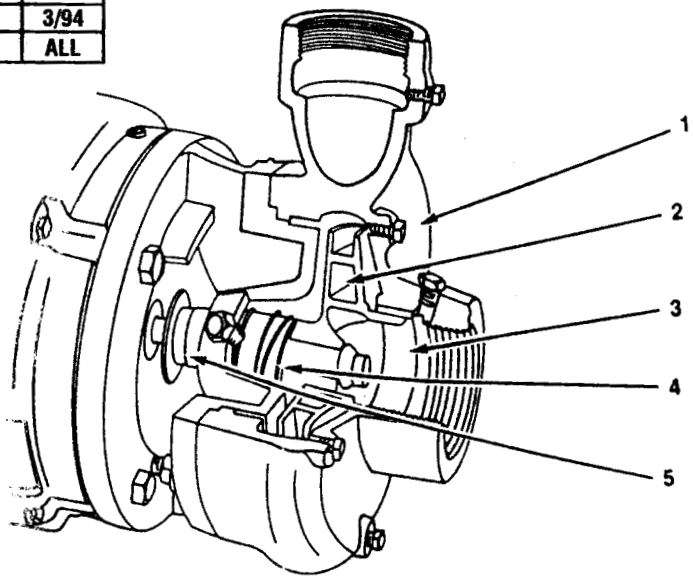
3500 RPM
CAPACITIES TO 960 GPM
HEADS TO 380 FEET



Individual performance curves should be checked for final selection.

SECTION	2B
PAGE	6
ISSUED	3/94
REPLACES	ALL

burks pumps
P.O. Box 603 Piqua, OH 45356
(513) 773-2442 Fax: (513) 773-2238



PRODUCT FEATURES

1. RADIAL SPLIT CASING DESIGN

Casing is close grain iron of 30,000 p.s.i, 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. Centerline discharge. Stud mounted casing assures positive alignment and allows rotation of discharge to eight different positions. Openings are provided for test gauges, for venting and for draining the pump.

2. ENCLOSED BRONZE IMPELLER

Enclosed bronze impeller is of latest hydraulic design for maximum efficiency. It is balanced for vibration free operation. Precision fit to shaft and double-locked with key and cap screw.

3. REPLACEABLE CASING WEAR RING

Prevents wear on casing and is easy to replace.

4. MECHANICAL SHAFT SEAL

Mechanical Shaft Seal is self adjusting for temperatures up to 225°F. and pressures to 150 p.s.i. Has ceramic seat and carbon seal faces for long trouble-free service. Special seals are available for higher temperatures and for fluids other than water. Tapped opening is provided in the seal chamber for flushing seal faces.

5. BRONZE SHAFT SLEEVE

Gasketed and keyed hook-type sleeve protects shaft from wear and corrosion in seal area.

6. MOTORS

The standard Type JM motors supplied with these pumps offer the advantages of quiet operation, controlled shaft deflection for longer mechanical seal life and bearings sized to provide good service life. All motors are supplied by manufacturers providing field service facilities.

7. INTERCHANGEABILITY

The complete liquid end of any size pump is interchangeable between motors on close-coupled pumps and the BURKS power frames of comparable size providing inventory flexibility, plus an option for handling emergency service.

8. FACTORY TESTED

After careful assembly and inspection, each BURKS pump is factory tested and will meet Hydraulic Institute Standards.

MAXIMUM OPERATING CONDITIONS

MAXIMUM PUMPING SPEED	3500 RPM
MAXIMUM PUMPING TEMPERATURE*	225°F
MAXIMUM INLET PRESSURE	100 PSI
MAXIMUM CASE WORKING PRESSURE	200 PSI

*FOR STANDARD BUNA N SEAL

SUCTION & DISCHARGE SIZES

*SERIES	SUCTION	DISCHARGE
G6-1½	2"	1½"
G6-2 & 2F	2½"	2"
G6-2½ & 2½F	3"	2½"
G7-2 & 2F	2½"	2"
G7A-2 & 2F	2½"	2"
G7-2½ & 2½F	3"	2½"
G9-1½	2"	1½"
G9-2 & 2F	2½"	2"
G9-2½ &2½F	3"	2½"
G9-3F & G9A-3F	4"	3"
G9-4F	5"	4"

*F Suffix Denotes ANSI 125# FF Flanges

FOR TEMPERATURES TO 500°F.

All models, with the exception of the G7-2½ and all G9 series 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 below 400°F and add suffix "MJK" to pump catalog number for temperatures over 400°F. Example: G6-1½MJ. See Section on High Temperature Pumps for more information.

MATERIALS OF CONSTRUCTION

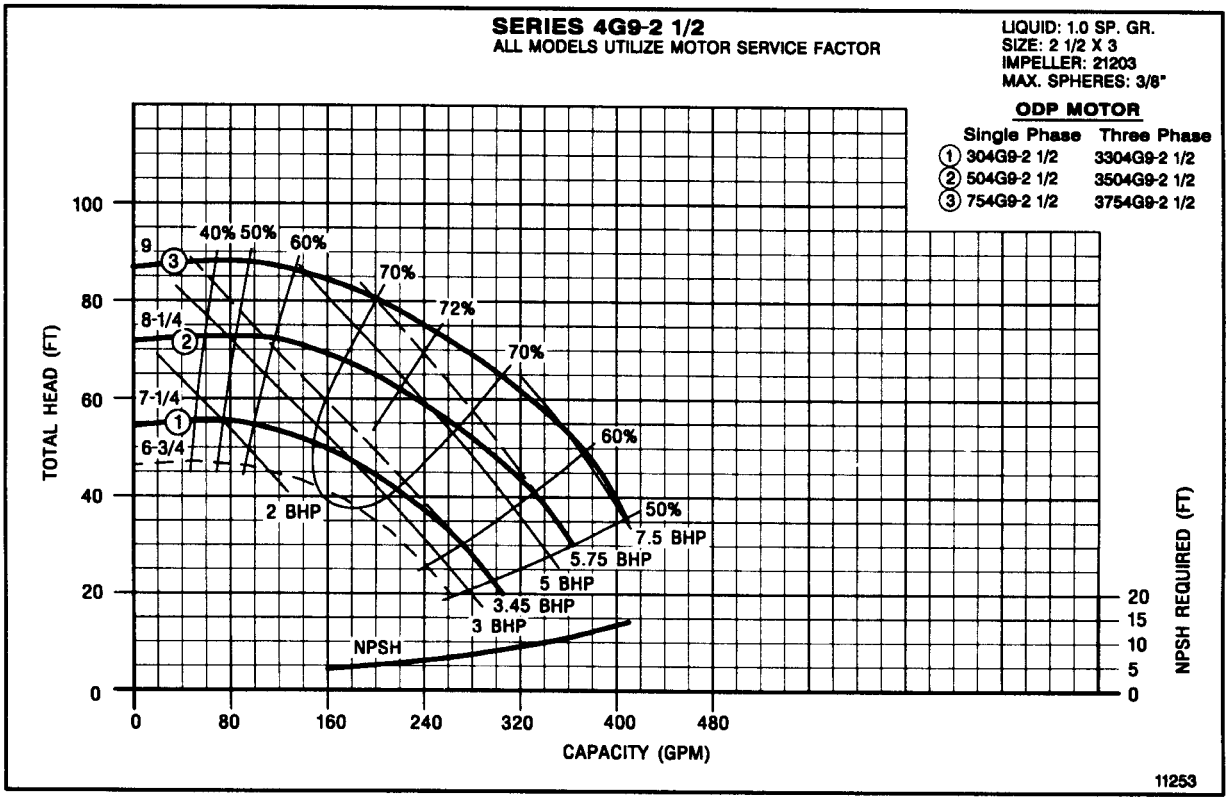
Part	Bronze Fitted	All Bronze	All Iron
Adapter	Cast Iron	Bronze	Cast Iron
Casing	Cast Iron	Bronze	Cast Iron
Casing Wear Ring	Bronze	Bronze	Steel
Shaft	Steel	Steel	Steel
Shaft Sleeve	Bronze	Bronze	#316 S. Steel
Impeller	Bronze	Bronze	Cast Iron
Shaft Seal	Carbon-Ceramic S. Steel-Buna N	Carbon-Ceramic S. Steel-Buna N	Carbon-Ceramic S. Steel-Buna N

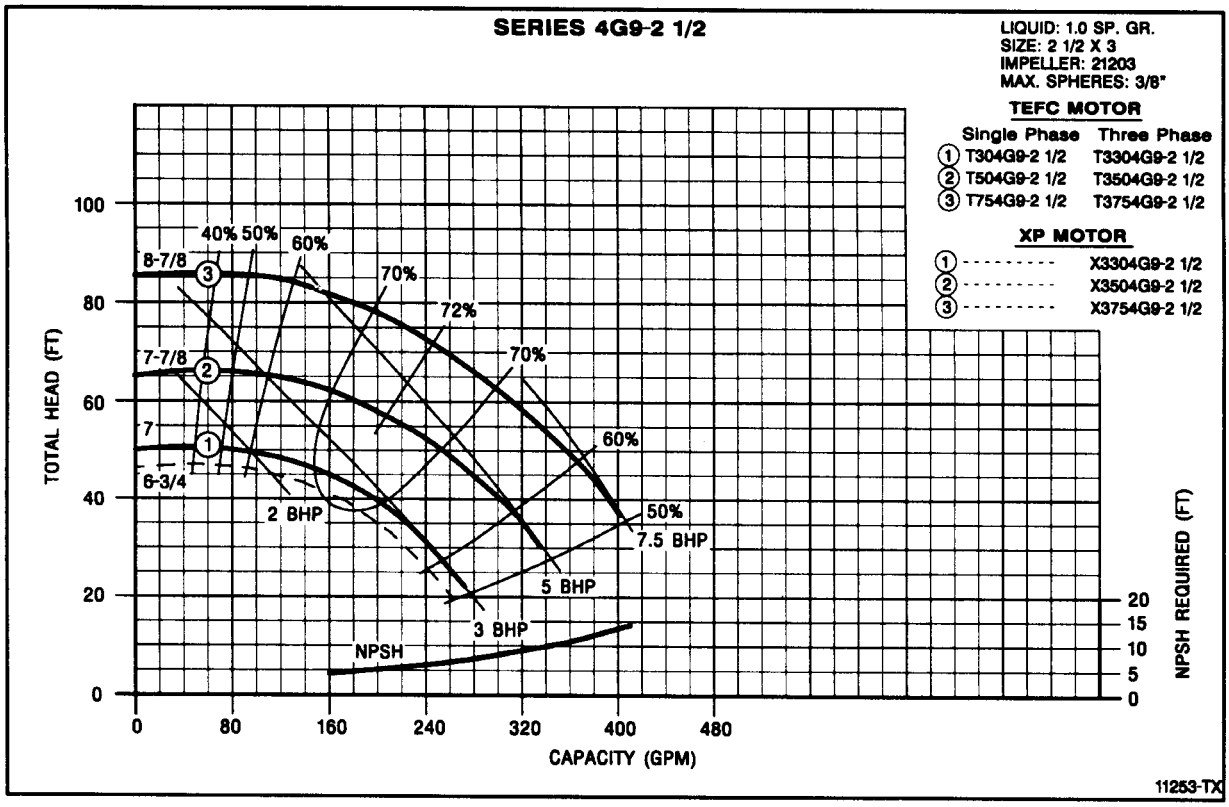
burks pumps.
P.O. Box 603 Piqua, OH 45356
(513) 773-2442 Fax: (513) 773-2238

PERFORMANCE CURVES

SECTION	2B
PAGE	23
ISSUED	3/94
REPLACES	ALL

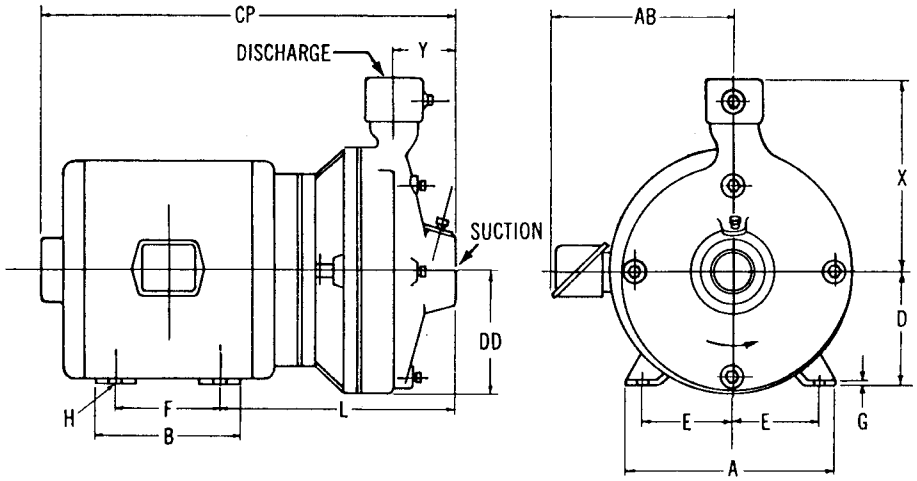
END SUCTION CENTRIFUGAL PUMPS





burks pumps.
P.O. Box 603 Piqua, OH 45356
(513) 773-2442 Fax: (513) 773-2238

SECTION	2B
PAGE	31
ISSUED	3/94
REPLACES	ALL



SERIES G9-1½, G9-2 & G9-2½

Catalog Number		H.P.	Motor Frame Size	Disch. NPT	Suct. NPT	DIMENSIONS IN INCHES												
1 Phase	3 Phase					A	AB	B	CP	D	DD	E	F	G	H	L	X	Y
1750 RPM																		
154G9-1½	3154G9-1½	1½	145JM	1½	2	7	8 1⁵⁄₁₆	6	17 3⁄₁₆	3½	5 1³⁄₁₆	2¾	5	⅜	1 1⁄₃₂	9¾	9	3 1⁄₁₆
204G9-1½	—	2	182JM			8¾	9⅞	5¾	18	4½	5 1³⁄₁₆	3¾	4½	½	1 3⁄₃₂	10½	9	3 1⁄₁₆
—	3204G9-1½	2	145JM			7	8 1⁵⁄₁₆	6	17 3⁄₁₆	3½	5 1³⁄₁₆	2¾	5	⅜	1 1⁄₃₂	9¾	9	3 1⁄₁₆
304G9-1½	—	3	184JM			8¾	9⅞	6¾	19	4½	5 1³⁄₁₆	3¾	5½	½	1 3⁄₃₂	10½	9	3 1⁄₁₆
—	3304G9-1½	3	182JM			8¾	9⅞	5¾	18	4½	5 1³⁄₁₆	3¾	4½	½	1 3⁄₃₂	10½	9	3 1⁄₁₆
154G9-2	3154G9-2	1½	145JM	2	2½	7	8 1⁵⁄₁₆	6	18 5⁄₁₆	3½	5 1³⁄₁₆	2¾	5	⅜	1 1⁄₃₂	10 7⁄₈	9⅝	4
204G9-2	—	2	182JM			8¾	9⅞	5¾	19¼	4½	5 1³⁄₁₆	3¾	4½	½	1 3⁄₃₂	11⅝	9⅝	4
—	3204G9-2	2	145JM			7	8 1⁵⁄₁₆	6	18 5⁄₁₆	3½	5 1³⁄₁₆	2¾	5	⅜	1 1⁄₃₂	10 7⁄₈	9⅝	4
304G9-2	—	3	184JM			8¾	9⅞	6¾	20¼	4½	5 1³⁄₁₆	3¾	5½	½	1 3⁄₃₂	11⅝	9⅝	4
—	3304G9-2	3	182JM			8¾	9⅞	5¾	19¼	4½	5 1³⁄₁₆	3¾	4½	½	1 3⁄₃₂	11⅝	9⅝	4
504G9-2	3504G9-2	5	184JM			8¾	9⅞	6¾	20¼	4½	5 1³⁄₁₆	3¾	5½	½	1 3⁄₃₂	11⅝	9⅝	4
304G9-2½	—	3	184JM	2½	3	8¾	9⅞	6¾	19¾	4½	6 1⁄₁₆	3¾	5½	½	1 3⁄₃₂	11¼	10½	3½
—	3304G9-2½	3	182JM			8¾	9⅞	5¾	18¾	4½	6 1⁄₁₆	3¾	4½	½	1 3⁄₃₂	11¼	10½	3½
504G9-2½	3504G9-2½	5	184JM			8¾	9⅞	6¾	19¾	4½	6 1⁄₁₆	3¾	5½	½	1 3⁄₃₂	11¼	10½	3½
754G9-2½	—	7½	215JM			10⅜	11 1⁄₁₆	8¾	22 11⁄₁₆	5¼	6 1⁄₁₆	4¼	7	⅝	1 3⁄₃₂	12⅜	10½	3½
—	3754G9-2½	7½	213JM			10⅜	11 1⁄₁₆	7¼	21 3⁄₁₆	5¼	6 1⁄₁₆	4¼	5½	⅝	1 3⁄₃₂	12⅜	10½	3½
3500 RPM																		
—	350G9-1½	5	182JM	1½	2	8¾	9⅞	5¾	18	4½	5 1³⁄₁₆	3¾	4½	½	1 3⁄₃₂	10½	9	3 1⁄₁₆
—	375G9-1½	7½	184JM			8¾	9⅞	6¾	19	4½	5 1³⁄₁₆	3¾	5½	½	1 3⁄₃₂	10½	9	3 1⁄₁₆
—	3100G9-1½	10	213JM			10⅜	11 1⁄₁₆	7¼	20 7⁄₁₆	5¼	5 1³⁄₁₆	4¼	5½	⅝	1 3⁄₃₂	11⅝	9	3 1⁄₁₆
—	3150G9-1½	15	215JM			10⅜	11 1⁄₁₆	8¾	21 15⁄₁₆	5¼	5 1³⁄₁₆	4¼	7	⅝	1 3⁄₃₂	11⅝	9	3 1⁄₁₆
—	3200G9-1½	20	254JM			12	11 1⁄₁₆	10¼	25 13⁄₁₆	6¼	5 1³⁄₁₆	5	8¼	⅞	1 7⁄₃₂	13½	9	3 1⁄₁₆
—	3150G9-2	15	215JM	2	2½	10⅜	11 1⁄₁₆	8¾	23 1⁄₁₆	5¼	5 1⁵⁄₁₆	4¼	7	⅝	1 3⁄₃₂	12¾	9⅝	4
—	3200G9-2	20	254JM			12	11 1⁄₁₆	10¼	26 15⁄₁₆	6¼	5 1⁵⁄₁₆	5	8¼	⅞	1 7⁄₃₂	14⅝	9⅝	4
—	3250G9-2	25	256JM			12	11 1⁄₁₆	12	28 11⁄₁₆	6¼	5 1⁵⁄₁₆	5	10	⅞	1 7⁄₃₂	14⅝	9⅝	4
—	3300G9-2	30	284JM			13¾	13	11½	28 11⁄₁₆	7	5 1⁵⁄₁₆	5½	9½	⅞	1 7⁄₃₂	14⅝	9⅝	4
—	3400G9-2	40	286JM			13¾	13	13	30 3⁄₁₆	7	5 1⁵⁄₁₆	5½	11	⅞	1 7⁄₃₂	14⅝	9⅝	4
—	3250G9-2½	25	256JM	2½	3	12	11 1⁄₁₆	12	28 5⁄₁₆	6¼	6 1⁄₁₆	5	10	⅞	1 7⁄₃₂	14¼	10½	3½
—	3300G9-2½	30	284JM			13¾	13	11½	28 5⁄₁₆	7	6 1⁄₁₆	5½	9½	⅞	1 7⁄₃₂	14¼	10½	3½
—	3400G9-2½	40	286JM			13¾	13	13	29 13⁄₁₆	7	6 1⁄₁₆	5½	11	⅞	1 7⁄₃₂	14¼	10½	3½
—	3500G9-2½	50	324JM			14½	16¼	12¼	30¼	8	6 1⁄₁₆	6¼	10½	⅞	2 1⁄₃₂	14¾	10½	3½
—	3600G9-2½	60	326JM			14½	16¼	13¾	31¾	8	6 1⁄₁₆	6¼	12	⅞	2 1⁄₃₂	14¾	10½	3½

Dimensions shown above are approximate maximum dimensions for standard pumps equipped with open drip-proof motors.

DO NOT USE FOR CONSTRUCTION PURPOSES. CERTIFIED DIMENSION DRAWINGS AVAILABLE ON REQUEST.