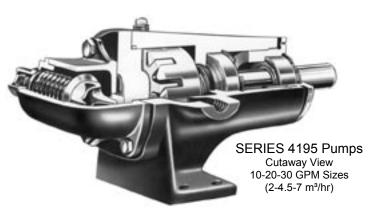
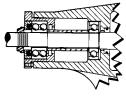
SERIES 4195 STANDARD CONSTRUCTION

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FEATURES

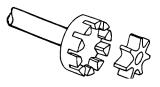
| ① Pressure Range | 250 PSI (17 BAR) for 100 SSU (20 cSt) and above 150 PSI (10 BAR) for 38 to 100 SSU (3 cSt to 20 cSt) 100 PSI (7 BAR) for below 38 SSU (3 cSt) |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| ① Temperature Range | - 40° F. to + 350°F. (- 40° C. to + 176°C.) |
| ① Viscosity Range | 28 SSU to 15,000 SSU (0.1 cP to 3,300 cSt) |





BALL BEARINGS (Standard Equipment)

Pumps are equipped with inner casing ball bearing installed outside of mechanical seal and a radial thrust ball bearing permitting heavy-duty service up to 250 PSI (17 BAR). Bearings are "Sealed for Life".



DUCTILE IRON PARTS

(Standard Equipment) ("AS", "AK", "AL" Sizes)

Internal pumping gears (rotor and idler) are constructed of ductile iron for added strength in handling all types of liquids up to 15,000 SSU (3,300 cSt). "HL" size rotor also furnished in ductile iron.



PRESSURE LUBRICATION

(Standard Equipment) ("AS", "AK", "AL" Sizes)

A patented pressure lubrication system automatically lubricates the idler bushing. This system provides a constant film of liquid between the idler bushing and idler pin at a pressure equal to the pump discharge pressure regardless of pump rotation.



O-RING GASKETS

(Standard Equipment)

O-Ring gaskets are used between casing and head plate and between casing and relief valve or valve plates. Flat valve gaskets furnished on "GG", "HJ" and "HL" size pumps. These gaskets provide a positive seal eliminating a chance for leakage at these points.



GPM 10-20-30-35-50-75 (m³/hr 2-4.5-7-8-11-17)

② (Nominal Rating)

Viking's high-speed, heavy-duty Series 4195 pumps are available in capacities of 10, 20, 30, 35, 50 and 75 GPM. The three smaller size pumps can be furnished directly connected to either 1800 or 1200 RPM motors. The three larger sizes directly connected to 1200 RPM motors. (See Series 4195D units shown on page 144.3.) All six sizes of Viking Series 4195 pumps are furnished with single mechanical seals. This seal is a simple selfadjusting, non-leak method of shaft sealing located ahead of the casing ball bearing. The Series 4195 pumps are built for continuous or intermittent duty for such applications as filtering, circulating, transferring, or booster service in general industrial, petroleum and marine uses. NOTE: "UL" listed pumps for handling flammable liquids require special construction. Externals are high strength cast iron. (Ductile Iron Casing on "AS", "AK" and "AL" sizes). See Catalog Section 440 for details and pricing information. Model numbers for these pumps must be designated by a suffix -F, eg. GG4195-F or when used with a "D" drive, GG4195D-F. "UL" listed models **must** be equipped with either an internal or return-to-tank safety relief valve. Maximum discharge pressure for "UL" listed models is 125 PSIG.

- ① Values shown represent minimums or maximums. Some special construction or consideration may be required before a cataloged pump can be applied to an application involving maximum pressure or minimum or maximum temperature and/or viscosity. Certain models have restrictions in pressures and/or viscosities. See specifications, page 144.2, and performance curves.
- ② Nominal capacities based on handling thin liquids at 1800 RPM on three small sizes, 1200 RPM on three large sizes.

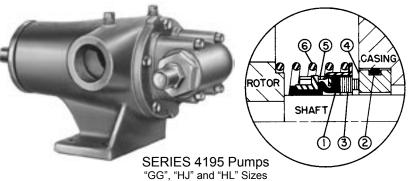
Metric conversions are based on US measurements and rounded to the nearest whole number.

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VIKING® HEAVY DUTY PUMPS SERIES 4195

STANDARD CONSTRUCTION

UNMOUNTED PUMPS



In addition to the famous features listed on the previous page, Series 4195 heavy-duty pumps are furnished with an integral relief valve as shown in the pump photos above. Return-to-tank valves are also available on all models on request. Note: On the "GG", "HJ" and "HL" sizes, the valve mounts on the pump head. The "AS", "AK" and "AL" size value mounts on top of the pump casing. All sizes equipped with Buna-N mechanical seal with carbon rotating and Ni-Resist stationary faces.

MECHANICAL SEAL

- ① Buna-N bellows.
- ② Buna-N O-ring.
- ③ Carbon rotating face (washer).
- ④ Ni-Resist stationary seat.
- Steel metal parts.

Stainless steel spring.



SERIES 4195 Pumps "AS", "AK" and "AL" Sizes

Dimensions for Unmounted Pumps—See Page 144.6. Performance Data for Unmounted Pumps—See Pages 144.13 through 144.26.

CONSTRUCTION — SERIES ① 4195 ("GG" THROUGH "AL" SIZES)

| Standard Construction Models | Casing | Head | Rotor | ldler | Rotor Shaft and Idler Pin | ldler Bushing | Internal Safety Relief Valve |
|------------------------------------|--------|------|--------------|--------------|---------------------------------|------------------|------------------------------------|
| GG4195 HJ4195 | Iron | Iron | ② Iron | ③ Iron | Steel | Carbon Graphite | Iron |
| HL4195 | Iron | Iron | Ductile Iron | Iron | Steel | Carbon Graphite | Iron |
| AS4195 AK4195 AL4195 | Iron | Iron | Ductile Iron | Ductile Iron | Steel | Carbon Graphite | Iron |

SPECIFICATION — UNMOUNTED PUMPS

| Model Numbers | . | | Motor Horsepower Required At Rated Speed Pumping 100 SSU Liquid Maximum Hydro- static Pressure | | Hydro- static | ⑦ Maximum Pump Discharge Pressure | ① Maximum Temperature | ⑤ Steel Fitted Construction Recommended Above This Viscosity | Approximate Shipping Weight With Valve (Less Power) | | |
|-------------------|--------|----------|------------------------------------------------------------------------------------------------|--------------|------------------------------------|--------------------------------------------|--------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------|-------------|-------------|
| Unmounted Pump | Inches | GPM | l (m³/hr) | RPM | 50 PSI (3.5 BAR) | 100 PSI (7 BAR) | PSIG (BAR) | PSIG (BAR) | Degrees | SSU (cSt) | Pounds (KG) |
| GG4195 | 1 | 10 7 | (3) (2) | 1800 1200 | 3/ ₄ 1/ ₂ | 1 3⁄4 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 20 (9) |
| HJ4195 | 1½ | 20 13 | (4.5) (3) | 1800 1200 | 1½ 1 | 2 1½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 44 (20) |
| HL4195 | 1½ | 30 20 | (7) (4.5) | 1800 1200 | 2 1½ | 3 2 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 6 | 44 (20) |
| AS4195 | 2½ | 35 | (8) | 1200 | 2 | 3 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 6 | 85 (38) |
| AK4195 | 21/2 | 50 | (11) | 1200 | 3 | 5 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 6 | 85 (38) |
| AL4195 | 3 | 75 | (17) | 1200 | 5 | 7½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 6 | 86 (39) |

① Standard Buna-N seal from -20°F. to +225°F. With special construction, temperatures from -40°F. to +350°F. can be handled with this series.

② When steel fitted construction is required, "GG" will have steel rotor, "HJ" will have ductile iron rotor.

③ "GG" size has steel idler.

④ Nominal capacities based on handling thin liquids at 1800 RPM on three small sizes, 1200 RPM on three large sizes.

⑤ For viscosities above 15,000 SSU (3,300 cSt), provide details for recommendations.

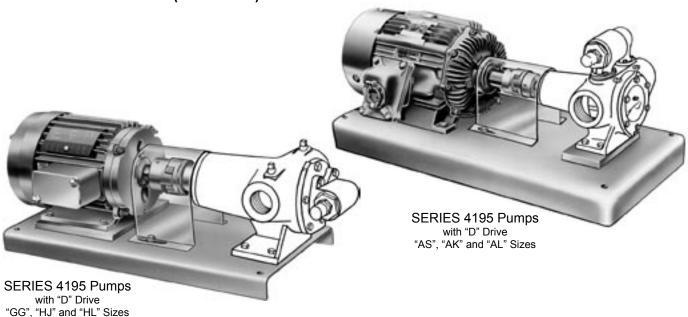
⁽⁶⁾ These models have ductile iron rotors; steel fitted rotors not necessary.

① If suction pressure exceeds 100 PSIG (7 BAR), consult factory.

SERIES 4195 STANDARD CONSTRUCTION

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Series 4195 pumps in the "GG", "HJ" and "HL" size (nominal rating 10, 20, 30 GPM) are designed for high-speed, heavyduty service. The pump is connected by a flexible coupling with guard directly to a 1200 or 1800 RPM motor. Both pump and motor mount on a sturdy formed steel base. This makes a very compact, rugged unit for heavy-duty service, handling many types of fluids up to 15,000 SSU.

The three large size Series 4195D direct connected units all feature the 4195 high-speed pump connected by a flexible coupling with guard to 1200 RPM motor. Both pump and

motor are mounted on a heavy-duty formed steel base. The three larger sizes are equipped with ductile iron pump gears (rotor and idler). O-Ring head and valve gaskets, mechanical seals and automatic pressure lubrication systems are also standard construction. These pumps are also available with steel externals, see Section 154.

Dimensions for "D" Drive—See Page 144.7. Performance Data for "D" Drive—See Pages 144.13 through 144.26.

SPECIFICATIONS — "D" DRIVE UNITS

| Model Numbers | Port Size (NPT) | ① Nominal Pump Rating | | Required At Rated H Speed Pumping 100 s | | Maximum Hydro- static Pressure | ⑤ Maximum Pump Discharge Pressure | ② Maximum Temperature | ③ Steel Fitted Construction Recommended Above This Viscosity | Approximate Shipping Weight With Valve (Less Power) | |
|------------------|-----------------------|-----------------------------|--------------|--------------------------------------------|------------------------------------|-----------------------------------------|--------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|-------------|
| Direct Drive | Inches | GPM | (m³/hr) | RPM | 50 PSI (3.5 BAR) | 100 PSI (7 BAR) | PSIG (BAR) | PSIG (BAR) | Degrees | SSU (cSt) | Pounds (KG) |
| GG4195D | 1 | 10 7 | (3) (2) | 1800 1200 | 3/ ₄ 1/ ₂ | 1 3⁄4 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 46 (21) |
| HJ4195D | 1½ | 20 13 | (4.5) (3) | 1800 1200 | 1½ 1 | 2 1½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 69 (31) |
| HL4195D | 11/2 | 30 20 | (7) (4.5) | 1800 1200 | 2 1½ | 3 2 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 69 (31) |
| AS4195D | 2½ | 35 | (8) | 1200 | 2 | 3 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 215 (97) |
| AK4195D | 2½ | 50 | (11) | 1200 | 3 | 5 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 215 (97) |
| AL4195D | 3 | 75 | (17) | 1200 | 5 | 7½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 220 (100) |

① Nominal capacities based on handling thin liquids at 1800 RPM on three small sizes, 1200 RPM on three large sizes.

② With special construction, temperatures to + 350°F. can be handled with this series.

③ For viscosities above 15,000 SSU (3,300 cSt), provide details for recommendations.

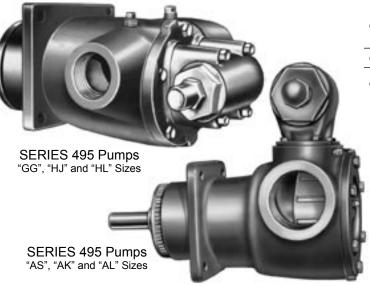
⁴⁾ These models have ductile iron rotors; steel fitted rotors not necessary.

⑤ If suction pressure exceeds 100 PSIG (7 BAR), consult factory.

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SERIES 495 STANDARD CONSTRUCTION

FLANGE BRACKET UNMOUNTED PUMPS



Series 495 pumps are similar to the Series 4195 on preceding pages with the exception of a flange bracket mount casing.

| ① Pressure Range | 250 PSI (17 BAR) for 100 SSU (20 cSt) and above 150 PSI (10 BAR) for 38 to 100 SSU (3 cSt to 20 cSt) 100 PSI (7 BAR) for below 38 SSU (3 cSt) | | | | | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| ① Temperature Range | - 40° F. to + 350°F. (- 40° C. to + 176°C.) | | | | | |
| ① Viscosity Range | 28 SSU to 15,000 SSU (0.1 cP to 3,300 cSt) | | | | | |

GPM 10-20-30-35-50-75 (m³/hr 2-4.5-7-8-11-17)

(Nominal Rating)

All six sizes are furnished with single mechanical seals, including Buna-N elastomer gaskets.

Standard construction features internal type safety relief valve on pump head or casing (depending on pump size), O-Ring head and valve gaskets, and automatic pressure lubrication system on the three larger size pumps.

The 495 series offers an optional flange port for sizes HJ-AL. Contact the factory for details.

Dimensions for Unmounted Pumps—See Page 144.8. Performance Data for Unmounted Pumps—See Pages 144.13 through 144.26.

CONSTRUCTION — SERIES ⑤ 495 ("GG" THROUGH "AL" SIZES)

| Standard Construction Models | Mounting Bracket (Units Only) | Casing | Head | Rotor | ldler | Rotor Shaft and Idler Pin | ldler Bushing | Internal Safety Relief Valve |
|------------------------------------|-------------------------------------|--------|------|--------------|--------------|---------------------------------|------------------|------------------------------------|
| GG495 HJ495 | Iron | Iron | Iron | ⑥ Iron | ⑦ Iron | Steel | Carbon Graphite | Iron |
| HL495 | Iron | Iron | Iron | Ductile Iron | Iron | Steel | Carbon Graphite | Iron |
| AS495 AK495 AL495 | Iron | Iron | Iron | Ductile Iron | Ductile Iron | Steel | Carbon Graphite | Iron |

SPECIFICATION — UNMOUNTED PUMPS

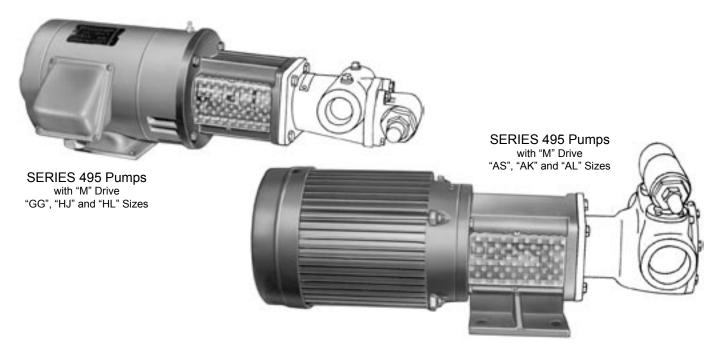
| | | • | • • | | | _ | | | | | |
|------------------|-----------------------|-----------------------------|--------------|--------------------------------------------|------------------------------------|-----------------------------------------|--------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|-------------|
| Model Numbers | Port Size (NPT) | ④ Nominal Pump Rating | | Required At Rated Speed Pumping 100 Static | | Maximum Hydro- static Pressure | | ② Maximum Temperature | ③ Steel Fitted Construction Recommended Above This Viscosity | Approximate Shipping Weight With Valve (Less Power) | |
| Unmounted Pump | Inches | GPM | (m³/hr) | RPM | 50 PSI (3.5 BAR) | 100 PSI (7 BAR) | PSIG (BAR) | PSIG (BAR) | Degrees | SSU (cSt) | Pounds (KG) |
| GG495 | 1 | 10 7 | (3) (2) | 1800 1200 | 3/ ₄ 1/ ₂ | 1 3⁄4 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 18 (8) |
| HJ495 | 1½ | 20 13 | (4.5) (3) | 1800 1200 | 1½ 1 | 2 1½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 40 (18) |
| HL495 | 1½ | 30 20 | (7) (4.5) | 1800 1200 | 2 1½ | 3 2 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 8 | 40 (18) |
| AS495 | 2½ | 35 | (8) | 1200 | 2 | 3 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 8 | 80 (36) |
| AK495 | 2½ | 50 | (11) | 1200 | 3 | 5 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 8 | 80 (36) |
| AL495 | 3 | 75 | (17) | 1200 | 5 | 7½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 8 | 81 (37) |

- 1 Consult factory for specific recommendations.
- ② Standard Buna-N seal from -20°F. to +225°F. With special construction, temperatures from -40°F. to +350°F. can be handled with this series.
- ③ For viscosities above 15,000 SSU (3,300 cSt), provide details for recommendations.
- Nominal capacities based on handling thin liquids at 1800 RPM on three small sizes, 1200 RPM on three large sizes.
- ⑤ Buna-N elastomer used in mechanical seal of Series 495 pumps.
- ® When steel fitted construction is required, "GG" will have steel rotor, "HJ" will have ductile iron rotor.
- ⑦ "GG" size has steel idler.
- ® These models have ductile iron rotors; steel fitted rotors not necessary.
- (9) If suction pressure exceeds 100 PSIG (7 BAR), consult factory.

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FLANGE BRACKET MOUNTED UNITS ("M" DRIVE)



For a compact horizontal mounting, the "C" flange mounted 495M heavy-duty pump units in all six sizes include a combination motor "C" flange and square pump flange bracket with coupling connecting motor and pump. The three smaller units connect to a foot mounted motor, while the three larger units include a foot type bracket to mount a flange type motor.

An optional foot-type bracket is available for the GG-HL sizes. Contact the factory for details.

The three larger size pumps are equipped with ductile iron pump gears (rotor and idler) and automatic pressure lubrication system. All sizes have O-Ring head and valve gaskets and mechanical seals as standard construction. These pumps are also available with steel externals, see Section 154.

Dimensions for "M" Drive—See Page 144.9. Performance Data for "M" Drive—See Pages 144.13 through 144.26.

SPECIFICATIONS — "M" DRIVE UNITS

| Model Numbers | Port Size (NPT) | | ① Nom Pum _l Ratin | р | Motor Hor Required Speed Pun SSU L | At Rated nping 100 | Maximum Hydro- static Pressure | Maximum Pump Discharge Pressure | ② Maximum Temperature | ③ Steel Fitted Construction Recommended Above This Viscosity | Approximate Shipping Weight With Valve (Less Power) |
|------------------|-----------------------|----------|------------------------------------|--------------|---------------------------------------------|--------------------|-----------------------------------------|--------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------|--------------------------------------------------------------|
| Unmounted Pump | Inches | GPM | (m³/hr) | RPM | 50 PSI (3.5 BAR) | 100 PSI (7 BAR) | PSIG (BAR) | PSIG (BAR) | Degrees | SSU (cSt) | Pounds (KG) |
| GG495M | 1 | 10 7 | (3) (2) | 1800 1200 | 3/4 1/2 | 1 3⁄4 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 28 (13) |
| HJ495M | 1½ | 20 13 | (4.5) (3) | 1800 1200 | 1½ 1 | 2 1½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 7500 (1619) | 50 (22) |
| HL495M | 1½ | 30 20 | (7) (4.5) | 1800 1200 | 2 1½ | 3 2 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 50 (22) |
| AS495M | 2½ | 35 | (8) | 1200 | 2 | 3 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 90 (41) |
| AK495M | 2½ | 50 | (11) | 1200 | 3 | 5 | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 90 (41) |
| AL495M | 3 | 75 | (17) | 1200 | 5 | 7½ | 400 (28) | 100 (7)—below 38 SSU 150 (10)—38 to 100 SSU 250 (17)—above 100 SSU | 225°F (107°C) | 4 | 95 (43) |

① Nominal capacities based on handling thin liquids at 1800 RPM on three small sizes, 1200 RPM on three large sizes.

② With special construction, temperatures to + 350°F. can be handled with this series.

③ For viscosities above 15,000 SSU (3,300 cSt), provide details for recommendations.

These models have ductile iron rotors; steel fitted rotors not necessary.

⑤ If suction pressure exceeds 100 PSIG (7 BAR), consult factory.

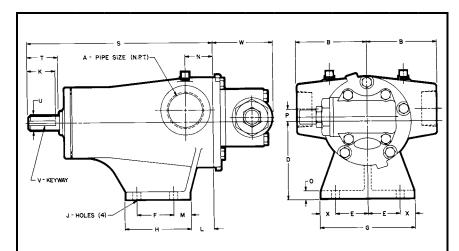
Metric conversions are based on US measurements and rounded

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SERIES 4195 STANDARD CONSTRUCTION

DIMENSIONS

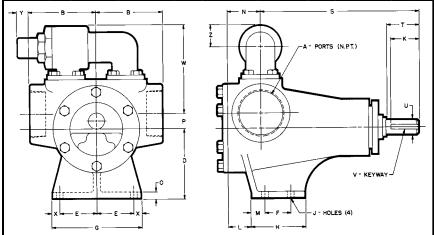
These dimensions are average and not for construction purposes. Certified prints on request.



For specifications, see page 144.2.

DIMENSIONS— SERIES 4195 UNMOUNTED PUMPS "GG"—"HJ"—"HL" SIZES

| MODEL NO. | | Α | В | D | E | F | G | Н | J | к | L | М | N | 0 | Р | s | Т | U | V | w | Х |
|-----------|----|------|------|------|------|------|------|------|-----|------|------|-----|------|-----|-----|-------|------|-------|-------------|------|-----|
| GG4195 | in | 1 | 2.75 | 2.75 | 1.62 | 1.31 | 4.00 | 2.44 | .34 | .94 | .03 | .66 | 1.12 | .31 | .62 | 7.31 | 1.12 | .500 | FLAT | 2.66 | .38 |
| GG4195 | mm | ' | 70 | 70 | 41 | 33 | 102 | 62 | 9 | 24 | 1 | 17 | 29 | 8 | 16 | 186 | 29 | 12.70 | FLAI | 67 | 10 |
| HJ4195 | in | 11/2 | 3.75 | 4.12 | 1.75 | 2.00 | 5.00 | 3.50 | .41 | 1.50 | 1.25 | .88 | 1.50 | .44 | .62 | 10.00 | 1.62 | .750 | .19 x .09 | 3.28 | .75 |
| HJ4195 | mm | 1/2 | 95 | 105 | 44 | 51 | 127 | 89 | 10 | 38 | 32 | 22 | 38 | 11 | 16 | 254 | 41 | 19.05 | 4.76 x 2.38 | 83 | 19 |
| HL4195 | in | 11/2 | 3.75 | 4.12 | 1.75 | 2.00 | 5.00 | 3.50 | .41 | 1.50 | 1.25 | .88 | 1.50 | .44 | .62 | 10.00 | 1.62 | .750 | .19 x .09 | 3.28 | .75 |
| 1114195 | mm | 1/2 | 95 | 105 | 44 | 51 | 127 | 89 | 10 | 38 | 32 | 22 | 38 | 11 | 16 | 254 | 41 | 19.05 | 4.76 x 2.38 | 83 | 19 |



For specifications, see page 144.2.

DIMENSIONS— SERIES 4195 UNMOUNTED PUMPS "AS"—"AK"—"AL" SIZES

| | | | _ | | | _ | | | | | | | | | | | | | | | _ | | |
|--------------|----|------|------|------|------|------|------|------|-----|------|------|------|------|-----|------|-------|------|-------|-------------|------|-----|------|------|
| MODEL NO. | | Α | В | D | E | F | G | Н | J | ĸ | L | M | N | 0 | Р | s | T | U | ٧ | W | Х | Y | Z |
| AC410E | in | 01/ | 5.00 | 5.25 | 2.88 | 2.00 | 6.75 | 4.00 | .41 | 2.25 | 1.25 | 1.00 | 2.00 | .44 | 1.12 | 12.12 | 2.50 | 1.000 | .25 x .12 | 7.00 | .50 | 1.00 | 1.72 |
| AS4195 | mm | 21/2 | 127 | 133 | 73 | 51 | 171 | 102 | 10 | 57 | 32 | 25 | 51 | 11 | 29 | 308 | 60 | 25.40 | 6.35 x 3.18 | 178 | 13 | 25 | 40 |
| A14405 | in | -1/ | 5.00 | 5.25 | 2.88 | 2.00 | 6.75 | 4.00 | .41 | 2.25 | 1.25 | 1.00 | 2.00 | .44 | 1.12 | 12.12 | 2.50 | 1.000 | .25 x .12 | 7.00 | .50 | 1.00 | 1.72 |
| AK4195 | mm | 21/2 | 127 | 133 | 73 | 51 | 171 | 102 | 10 | 57 | 32 | 25 | 51 | 11 | 29 | 308 | 60 | 25.40 | 6.35 x 3.18 | 178 | 13 | 25 | 40 |
| AL 4105 | in | 3 | 5.00 | 5.25 | 2.88 | 2.00 | 6.75 | 4.00 | .41 | 2.25 | 1.75 | 1.00 | 2.50 | .44 | 1.12 | 12.12 | 2.50 | 1.000 | .25 x .12 | 7.00 | .50 | 1.00 | 1.72 |
| AL4195 | mm | 3 | 127 | 133 | 73 | 51 | 171 | 102 | 10 | 57 | 44 | 25 | 64 | 11 | 29 | 308 | 60 | 25.40 | 6.35 x 3.18 | 178 | 13 | 25 | 40 |

SERIES 4195 STANDARD CONSTRUCTION

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DIMENSIONS

These dimensions are average and not for construction purposes. Certified prints on request.

For specifications, see page 144.3.

DIMENSIONS— SERIES 4195 ("D" DRIVE) "GG"—"HJ"—"HL"— "AS"—"AK"—"AL" SIZES

⁽a) Dimension includes motor block, base height is 2 $^{15}/_{6}$ ". NOTE: All "AS", "AK", "AL" pump sizes available with any of the three motors shown in columns.

| E . | | | OLES | | DUPLIN GUARD | ıg \ | CLO | SED E | L H | M1 H E N | | B | K 0 | PEN E | I ND |
|--------------------|----|------|------|-----------|-----------------|-------|------|-------|--------|-------------------|------|------|------|-------|------|
| MODEL NO. | | Α | В | D | Е | F | н | J | к | L | М | М , | N | Р | s |
| | in | 1 | 2.75 | ① 3.50 | 1.50 | 20.50 | .75 | .75 | 8.50 | .38 | 3.78 | | .62 | .62 | 4.25 |
| 0044050 | mm | | 70 | 89 | 38 | 445 | 19 | 19 | 216 | 10 | 96 | | 16 | 13 | 108 |
| GG4195D | in | 1 | 2.75 | ② 3.50 | 1.50 | 20.50 | .75 | .75 | 8.50 | .38 | 3.78 | | .62 | .62 | 4.25 |
| | mm | ' | 70 | 89 | 38 | 521 | 19 | 19 | 216 | 10 | 96 | | 16 | 13 | 108 |
| | in | 1/ | 3.75 | ③ 4.12 | ⑦ 2.12 | 20.50 | .75 | .75 | 8.50 | 0 | 4.78 | | .62 | .62 | 4.25 |
| | mm | 11/2 | 95 | 114 | 54 | 521 | 19 | 19 | 216 | 0 | 121 | | 16 | 13 | 108 |
| HJ4195D | in | 1/ | 3.75 | ④ 4.12 | 2.94 | 29.00 | 1.00 | 1.50 | 9.00 | .25 | 4.78 | | .62 | .62 | 4.50 |
| HL4195D | mm | 11/2 | 95 | 114 | 75 | 635 | 25 | 38 | 229 | 6 | 121 | | 16 | 14 | 114 |
| | in | 1/ | 3.75 | ⑤ 5.25 | 2.94 | 29.00 | 1.00 | 1.50 | 9.00 | .25 | 4.78 | | .62 | .62 | 4.50 |
| | mm | 11/2 | 95 | 133 | 75 | 635 | 25 | 38 | 229 | 6 | 121 | | 16 | 14 | 114 |
| | in | 1/ | 5.00 | ④ 4.50 | ® 3.69 | 29.00 | 1.00 | 1.50 | 9.00 | 0 | | 7.00 | 1.12 | .62 | 4.50 |
| | mm | 21/2 | 127 | 114 | 94 | 660 | 25 | 38 | 229 | 0 | | 178 | 29 | 14 | 114 |
| AS4195D | in | 1/ | 5.00 | ⑤ 5.25 | 2.94 | 29.00 | 1.00 | 1.50 | 9.00 | 0 | | 7.00 | 1.12 | .62 | 4.50 |
| AK4195D AL4195D | mm | 21/2 | 127 | 133 | 75 | 737 | 25 | 38 | 229 | 0 | | 178 | 29 | 14 | 114 |
| | in | _ | 5.00 | ⑥ 6.25 | 4.00 | 39.00 | 1.38 | 1.38 | 16.00 | 3.75 | | 7.00 | 1.12 | .62 | 8.00 |
| | mm | 3 | 127 | 159 | 102 | 991 | 35 | 35 | 406 | 95 | | 178 | 29 | 16 | 203 |

① 56 frame motors (short base). (Available with "GG" size pump.)

② 143T and 145T frame motors (long base). (Available with "GG" size pump.) 3 56, 143T and 145T frame motors. (Available with "HJ"

or "HL" size pumps.)

^{4 182, 182}T, 184, 184T frame motors. (Available with "HJ" through "AL" size pumps.)

⑤ 213, 213T, 215, 215T frame motors. (Available with "HJ" through "AL" size pumps.)

(a) 254U, 254T, 256U, 256T frame motors. (Available

with "AK" through "AL" size pumps.)

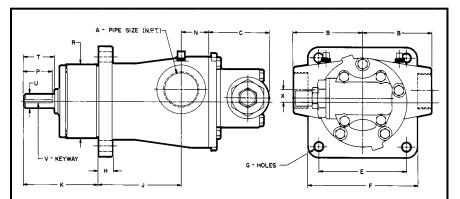
⁷ Dimensions includes motor block, base height is 1½".

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| Issue | В |

SERIES 495 STANDARD CONSTRUCTION

DIMENSIONS

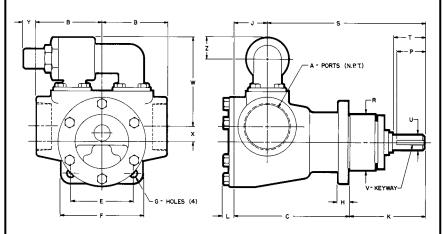
These dimensions are average and not for construction purposes. Certified prints on request.



For specifications, see page 144.4.

DIMENSIONS— SERIES 495 UNMOUNTED PUMPS "GG"—"HJ"—"HL" SIZES

| MODEL NO. | | Α | В | С | Е | F | G | Н | J | К | Z | Р | R | Т | U | V | Х |
|-----------|----|-----|------|------|------|------|-----|-----|------|------|------|------|----------------|------|-------|-------------|-----|
| GG495 | in | 1 | 2.75 | 2.66 | 3.00 | 4.00 | .41 | .50 | 3.44 | 2.81 | 1.12 | .94 | 2.875 2.873 | 1.12 | .500 | FLAT | .62 |
| GG495 | mm | ' | 70 | 67 | 76 | 102 | 10 | 13 | 87 | 71 | 29 | 24 | 73 | 29 | 12.70 | FLAT | 16 |
| HJ495 | in | 1½ | 3.75 | 3.28 | 4.75 | 5.88 | .56 | .75 | 4.50 | 4.00 | 1.50 | 1.50 | 3.875 3.873 | 1.62 | .750 | .19 x .09 | .62 |
| ПЈ495 | mm | 1/2 | 95 | 83 | 121 | 149 | 14 | 19 | 114 | 102 | 38 | 38 | 98 | 41 | 19.05 | 4.76 x 2.38 | 16 |
| HL495 | in | 1½ | 3.75 | 3.28 | 4.75 | 5.88 | .56 | .75 | 4.50 | 4.00 | 1.50 | 1.50 | 3.875 3.873 | 1.62 | .750 | .19 x .09 | .62 |
| ⊓L495 | mm | 1/2 | 95 | 83 | 121 | 149 | 14 | 19 | 114 | 102 | 38 | 38 | 98 | 41 | 19.05 | 4.76 x 2.38 | 16 |



For specifications, see page 144.4.

DIMENSIONS— SERIES 495 UNMOUNTED PUMPS "AS"—"AK"—"AL" SIZES

| MODEL NO. | | Α | В | С | E | F | G | Н | J | K | L | Р | R | s | Т | U | ٧ | w | Х | Y | Z |
|----------------|----|----|------|------|------|------|-----|-----|------|------|-----|------|----------------|-------|------|-------|-------------|------|------|------|------|
| AS495 AK495 | in | 2½ | 5.00 | 8.38 | 4.75 | 6.25 | .56 | .75 | 2.00 | 5.75 | .75 | 2.25 | 4.250 4.248 | 12.12 | 2.50 | 1.000 | .25 x .12 | 7.00 | 1.12 | 1.00 | 1.72 |
| | mm | | | 213 | | | | | 51 | | | | | | | | | | | | |
| AL495 | in | 3 | | 8.88 | | | | | 2.50 | | | | | | | | | | | | |
| AL495 | mm | 3 | 127 | 225 | 121 | 159 | 14 | 19 | 64 | 146 | 22 | 57 | 108 | 308 | 64 | 25.40 | 6.35 x 3.18 | 178 | 29 | 25 | 40 |

SERIES 495 STANDARD CONSTRUCTION

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| Issue | В |

DIMENSIONS

These dimensions are average and not for construction purposes. Certified prints on request.

For specifications, see page 144.5.

DIMENSIONS— SERIES 495 ("M" DRIVE) "GG"—"HJ"—"HL" SIZES

| | | - F - | - -F→ | G | A - F | 4 | | (N.P. | | N | K - HOL | L ₃ | B - E - | B - E - | |
|-----------|----|-------|------------------|------|-------|-----|-----|-------|----------------|------|---------|----------------|---------|---------|----------|
| MODEL NO. | | Α | В | С | J | L | М | N | MOTOR FRAME | D | E | F | G | Н | К |
| | in | | | | | | | | 56C | | 2.44 | 1.50 | 2.56 | | .34 SLOT |
| | mm | | | | | | | | 300 | | 62 | 38 | 65 | | 9 |
| | in | | | | | | | | 143TC | 3.50 | | 2.00 | | 8.88 | |
| | mm | | | | | | | | 14010 | | 2.75 | 51 | 2.88 | | .34 |
| GG495M | in | 1 | 2.75 | 2.66 | 3.44 | .62 | .19 | 1.12 | 145TC | | | 2.50 | | | |
| | mm | - | | | | | | | | 89 | 70 | 64 | 73 | 225 | 9 |
| | in | | | | | | | | 182TC | | | 2.25 | | | |
| | mm | | | | | | | | | 4.50 | 3.75 | 57 | 3.38 | 9.56 | .41 |
| | in | | | 07 | 07 | 40 | - | | 184TC | 444 | 0.5 | 2.75 | | 0.40 | - 10 |
| | mm | | 70 | 67 | 87 | 16 | 5 | 29 | | 114 | 95 | 70 | 86 | 243 | 10 |
| | in | | | | | | | | 56C | | 2.44 | 1.50 | 2.56 | | .34 SLOT |
| | mm | | | | | | | | | 3.50 | 62 | 38 2.00 | 65 | 11.12 | 9 |
| | mm | | | | | | | | 143TC | 3.50 | 2.75 | 51 | 2.88 | 11.12 | .34 |
| | in | | | | | | | | | | 2.75 | 2.50 | 2.00 | | .54 |
| HJ495M | mm | | | | | | | | 145TC | 89 | 70 | 64 | 73 | 283 | 9 |
| | in | 4. | 3.75 | 3.28 | 4.50 | .62 | .19 | 1.50 | | - 55 | | 2.25 | | | - |
| | mm | 11/2 | | | | | | | 182TC | 4.50 | 3.75 | 57 | 3.38 | 11.81 | .41 |
| | in | | | | | | | | | | | 2.75 | | | |
| HL495M | mm | | | | | | | | 184TC | 114 | 95 | 70 | 86 | 300 | 10 |
| | in | | | | | | | | 04070 | | | 2.75 | | | |
| | mm | | | | | | | | 213TC | 5.25 | 4.25 | 70 | 4.25 | 12.56 | .41 |
| | in | | | | | | | | 215TC | | | 3.50 | | | |
| l i | mm | | 95 | 83 | 114 | 16 | 5 | 38 | 21010 | 133 | 108 | 89 | 108 | 319 | 10 |

NOTE: Jaw type coupling with straight jaws recommended to facilitate assembly of motor and pump to bracket.

COUPLING IS GUARDED WITH PLATES OVER SIDE OPENINGS ON MOUNTING BRACKET.

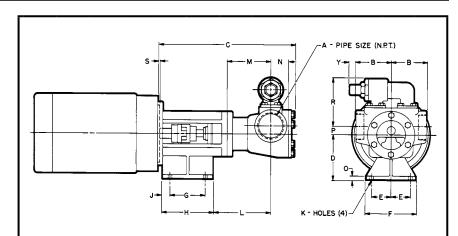
For specifications, see page 144.5.

DIMENSIONS— SERIES 495 ("M" DRIVE) "AS"—"AK"—"AL" SIZES

① Dimensions are correct for 182TC through 215TC motors. For 254TC/256TC motors, add .88" to the dimensions shown.

NOTE: Jaw type coupling with straight jaws recommended to facilitate assembly of motor and pump to bracket.

COUPLING IS GUARDED WITH PLATES OVER SIDE OPENINGS ON MOUNTING BRACKET.



| MODEL NO. | | Α | В | ① C | D | Е | F | G | Н | J | К | ① L | М | N | 0 | Р | R | S | Υ |
|-----------|----|-----|------|--------|------|------|------|------|------|------|-----|--------|------|------|-----|------|------|-----|------|
| AS495M | in | 01/ | | 19.06 | | | | | | | | | | 2.00 | | | | | |
| AK495M | mm | 2½ | 5.00 | 484 | 6.25 | 2.75 | 7.00 | 5.00 | 7.00 | 1.00 | .56 | 8.44 | 6.38 | 51 | .50 | 1.12 | 7.00 | .19 | 1.00 |
| AL495M | in | 2 | | 19.56 | | | | | | | | | | 2.50 | | | | | |
| AL493W | mm | ٦ | 127 | 497 | 159 | 70 | 178 | 127 | 178 | 25 | 14 | 214 | 162 | 64 | 13 | 29 | 178 | 5 | 25 |