VIKING® GENERAL PURPOSE SPECIAL MOUNTED PUMPS 75 AND 475 SERIES

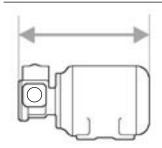
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FEATURES



SERIES 75 and 475 Lip and Mechanical Seal Unmounted Pumps "G" and "GG" sizes

Pressure	50 PSI (3 BAR) (SERIES 75)				
Range	100 PSI (7 BAR) (SERIES 475)				
① Temperature Range	-20°F. to +350°F. (-29°C. to +177°C.)				
① Viscosity Range	28 SSU to 2500 SSU (1.0 cP to 550 cSt)				



VIKING CLOSE-COUPLED PUMP FEATURES SAVES SPACE

Over-all space (length, height and width) is cut to a minimum with Viking's close-coupled pumps. Complete unmounted pump in all five sizes, 5 to 30 GPM, requires only approximately 5" of space.



NO DRIVE EQUIPMENT NEEDED

No couplings, bases, gears or outboard bearings. Standard motor shafts are keyed directly to the Viking rotor pump gear eliminating all extra drive equipment. Simple and compact.

② GPM 5 - 7- 10 - 13 - 15 - 20 - 30 (m³/hr 1 - 1.5 - 2 - 3 - 3.5 - 4.5 - 7) (Nominal Rating)

For compactness, less weight and simplicity of mounting, Viking's line of close-coupled pumps are ideal for direct connecting to other pieces of equipment.

The positive, smooth delivery, of these pumps makes them preferred for many types of applications including filtering, circulating, transferring, lubricating or booster service.

The five sizes of Viking close-coupled pumps from 5 to 30 GPM are available in this unmounted type ready to connect on other equipment with standard NEMA "C" flange mounting.

All pumps are available with rotor bore to fit the shaft of a standard motor or other piece of equipment. Bores are furnished in $\frac{5}{8}$ and $\frac{7}{8}$.

By using a full length key between drive shaft and rotor bore, rigid and positive alignment of pump and drive shaft is assured.

All five pumps operating at 1800 RPM and pumping liquids up to 750 SSU deliver 7, 10, 15, 20 and 30 GPM.

- ① See following pages or consult factory for specific recommendations on individual models or sizes.
- ② Nominal capacities based on handling thin liquids.

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

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VIKING® GENERAL PURPOSE SPECIAL MOUNTED PUMPS 75 AND 475 SERIES

MOUNTED AND UNMOUNTED PUMPS

This advanced design of Viking's line of close-coupled pumps is unique in its field for it permits use of STAND-ARD, unmodified NEMA "C" flange ball bearing motors in 1800 and 1200 RPM speeds, 56C, 143TC and 145TC frame sizes.

It is extremely close-coupled, reducing needed space, cutting overall weight, eliminating bases, couplings, outboard bearings or any drive equipment and at the same time saves cost of these many items.

These Viking "gear-within-a-gear", self-priming, positive displacement pumps are ideal for filtering, circulating, transferring, lubricating or booster service.

All five sizes are equipped with opposite ports. Only two casing sizes are used for all five pumps. The two smaller pumps use one casing and the three larger pumps use the other.

All five pumps are built to accept a compact, integral relief valve mounted on top of casing to maintain extreme compactness.

All pumps are available with either mechanical seal suitable for 100 PSI pressure or a lip seal suitable for 50 PSI. No modification of parts are needed to convert from one seal to the other.

Dimensions for Unmounted Pumps and "M" Drive Units —See Page 320.6.

Performance Data for Unmounted Pumps and "M" Drive Units—See Pages 320.15 thru 320.19.





CONSTRUCTION — 75 AND 475 SERIES ("G" THROUGH "HL" SIZES)

						Shaft Sealing		Internal	
Pump Construction	Casing	Head	Rotor	ldler	ldler Bushing	Lip Seal	Mechanical Seal	Relief Valve	
Standard Construction	Iron	Iron	Iron	① Iron	Bronze	Buna N	Buna N	Iron	

SPECIFICATIONS — "M" DRIVE UNITS AND UNMOUNTED PUMPS ("G" THROUGH "HL" SIZES)

Me	Init odel mber	Pu	ounted imp el No.	Port Size	Nominal Pump Rating		Motor H.P. Required at Rated Speed Pumping 100 SSU Liquid		② Maximum Recommended Discharge Pressure PSIG (BAR)		Maximum Recommended Temperature for Cataloged Pump °F. (°C.)		Maximum Recommended Viscosity for 1800 and 1200 RPM Operation SSU		Shipping Weight With Valve Pounds (KG)	
Lip Seal	Mech. Seal	Lip Seal	Mech. Seal	Inches	GPM (m³/hr	RPM	25 PSI (2 BAR)	50 PSI (3 BAR)	Lip Seal	Mech. Seal	Lip Seal	③ Mech. Seal	1800 RPM	1200 RPM	Mounted Units	Unmounted Pumps
G75M	G475M	G75	G475	1	5 (1) 7 (1.5)	1200 1800	1/2	3/4	50 (3)	100 (7)	225 (107)	225 (107)	750	2500	④ 48 (22)	17 (8)
GG75M	GG475M	GG75	GG475	1	7 (1.5) 10 (2)	1200 1800	1/2	3/4	50 (3)	100 (7)	225 (107)	225 (107)	750	2500	④ 48 (22)	17 (8)
H75M	H475M	H75	H475	1½	10 (2) 15 (3.5)	1200 1800	1/2	1	50 (3)	100 (7)	225 (107)	225 (107)	750	2500	⑤ 80 (36)	24 (11)
HJ75M	HJ475M	HJ75	HJ475	1½	13 (3) 20 (4.5)	1200 1800	1	1½	50 (3)	100 (7)	225 (107)	225 (107)	750	2500	© 85 (39)	24 (11)
HL75M	HL475M	HL75	HL475	1½	20 (4.5) 30 (7)	1200 1800	1½	2	50 (3)	100 (7)	225 (107)	225 (107)	750	2500	© 85 (39)	26 (12)

① "G" and "GG" size have steel idlers.

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

② Mechanical Seal pump will withstand a hydrostatic test pressure of 400 PSI (28 BAR). Lip Seal pump should not be subjected to hydrostatic test. Neither type pump should be used on an application having a suction pressure greater than 25 PSIG (8 BAR).

³ Temperatures to 350° F. can be handled with special construction.

⁴ Includes 56C Frame Motor.

⑤ Includes 143TC Frame Motor.

⁶ Includes 145TC Frame Motor.

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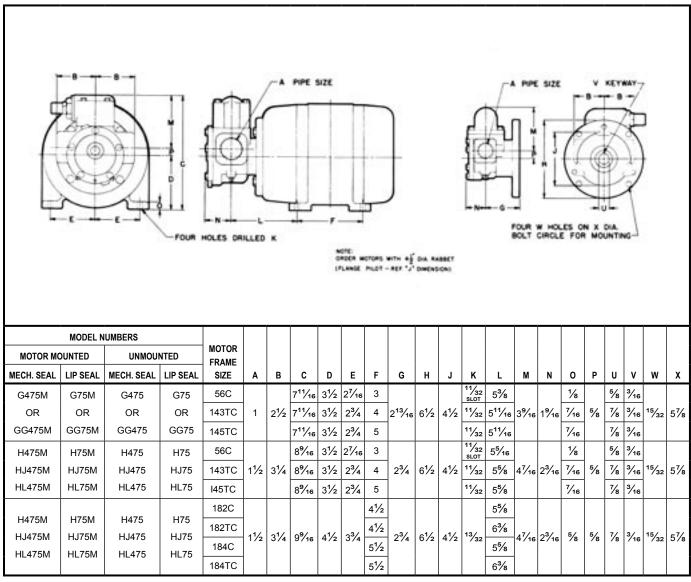
VIKING® GENERAL PURPOSE SPECIAL MOUNTED PUMPS 56 AND 456 SERIES

DIMENSIONS

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

For specifications, see pages 320.3 and 320.4.

DIMENSIONS – 75 AND 475 SERIES UNMOUNTED PUMPS AND ("M" DRIVE)



Note: 182TC and 184TC frame motors require a special shaft, $\frac{7}{8}$ shaft U dimension, $2\frac{7}{8}$ AH dimension and also $4\frac{7}{2}$ rabbet for 75 and 475 pumps.