

VIKING® GENERAL PURPOSE PUMPS

SERIES 32 AND 432

Section	310
Page	310.3
Issue	G

UNMOUNTED PUMPS

CONSTRUCTION — 32 AND ① 432 SERIES (“C”, “F” AND “FH” SIZES)

Pump Construction	Casing	Head	Rotor and Shaft	Idler	Idler Pin	Casing Bushing		② Internal Relief Valve
						Packed	⑫ Mech. Seal	
Standard Construction	Iron	Iron	Steel	Steel	Nitr alloy	Carbon Graphite	Carbon Graphite	Iron
Bronze Fitted	Iron	Iron	Bronze	Bronze	Steel	Carbon Graphite	Carbon Graphite	Iron
All Bronze	Bronze	Bronze	Bronze	Bronze	Stainless Steel	Carbon Graphite	Carbon Graphite	Bronze

CONSTRUCTION — 32 AND ① 432 SERIES (“G”, “H” AND “HL” SIZES)

Pump Construction	Casing	Head	Rotor	Idler	Rotor Shaft	Idler Pin	Bushings		Internal Relief Valve
							Packed	Seal	
Standard Construction	Iron	Iron	Iron	③ Iron	Steel	Steel	Bronze	Carbon Graphite	Iron
Steel Fitted	Iron	Iron	Steel	③ Iron	Steel	Steel	Bronze	Carbon Graphite	Iron
Bronze Fitted	Iron	Iron	⑬ Bronze	Bronze	Stainless Steel	Steel	Bronze	Carbon Graphite	Iron
All Bronze	Bronze	Bronze	⑬ Bronze	Bronze	Stainless Steel	Stainless Steel	Bronze	Carbon Graphite	Bronze

CONSTRUCTION — 32 SERIES (“J” THROUGH “N” SIZES)

Pump Construction	Casing	Head	Rotor	Idler	Rotor Shaft	Idler Pin	Bushings	Internal Relief Valve
Standard Construction	Iron	Iron	Iron	Iron	Steel	Steel	Bronze	Iron
Steel Fitted	Iron	Iron	Steel	④ Iron	Steel	Steel	Bronze	Iron
Bronze Fitted	Iron	Iron	⑬ Bronze	Bronze	Stainless Steel	Steel	Bronze	Iron

SPECIFICATIONS — UNMOUNTED PUMPS

Model Number	⑤ Mech. Seal	Port Size Inches	Nominal Pump Rating		Motor HP Required at Rated Speed Pumping 100 SSU Liquid			Maximum Recommended Discharge Pressure PSIG			Maximum Recommended Temperature for Catalogued Pump °F. (°C.)		Steel Fitted Construction Recommended Above This Viscosity SSU (cSt)	Maximum Hydrostatic Pressure PSIG (BAR)	Approximate Shipping Weight With Valve Pounds (KG)
Packed	⑤ Mech. Seal	Inches	GPM (m³/hr)	RPM	25 PSI (2 BAR)	50 PSI (3 BAR)	100 PSI (7 BAR)	Less Than 100 SSU	Fuel Oil Less Than 100 SSU	100 SSU and up	Packed	Mech. Seal			
C32	C432	¼	½ (.11)	1800	¼	¼	¼	⑦ 100	⑦ 150	⑧ ⑨ 250	⑩ 300 (149)	⑪ 225 (107)	-----	750 (50)	5 (2.3)
F32	F432	½	1½ (.34)	1800	¼	¼	¼	⑦ 100	⑦ 150	⑧ ⑨ 250	⑩ 300 (149)	⑪ 225 (107)	-----	750 (50)	6 2.7
FH32	FH432	½	3 (.68)	1800	¼	¼	⅓	⑦ 100	⑦ 150	⑧ ⑨ 250	⑩ 300 (149)	⑪ 225 (107)	-----	750 (50)	6 2.7
G32	G432	1	5 (1.1)	1200	⅓	½	¾	50	-----	100	300 (149)	225 (107)	⑤ 25,000 (5,500)	400 (28)	15 6.8
H32	H432	1	10 (2.3)	1200	½	¾	1½	50	-----	100	300 (149)	225 (107)	⑤ 25,000 (5,500)	400 (28)	20 9.1
HL32	HL432	1½	20 (4.5)	1200	¾	1½	2	50	-----	100	300 (149)	225 (107)	⑤ 7,500 (1,650)	400 (28)	26 11.8
J32	-----	1¼	20 (4.5)	420	¾	1½	3	50	-----	100	300 (149)	-----	⑩ 7,500 (1,650)	400 (28)	55 25
K32	-----	1½	35 (8)	420	1	2	5	50	-----	100	300 (149)	-----	25,000 (5,500)	400 (28)	65 29.5
KK32	-----	2	50 (11)	420	1½	3	5	50	-----	100	300 (149)	-----	7,500 (1,650)	400 (28)	70 31.8
L32	-----	2	90 (20)	420	3	5	10	50	-----	100	300 (149)	-----	25,000 (5,500)	400 (28)	120 54.5
LQ32	-----	⑥ 2½	90 (20)	420	3	5	10	50	-----	100	300 (149)	-----	25,000 (5,500)	400 (28)	125 56.8
LL32	-----	⑥ 3	140 (32)	520	5	7½	15	50	-----	100	300 (149)	-----	7,500 (1,650)	400 (28)	135 61.3
Q32	-----	⑥ 3	200 (45)	350	7½	10	-----	50	-----	75	300 (149)	-----	7,500 (1,650)	400 (28)	335 152.1
M32	-----	⑥ 4	280 (63)	280	10	15	-----	50	-----	75	300 (149)	-----	25,000 (5,500)	400 (28)	500 227
N32	-----	⑥ 5	450 (102)	280	15	25	-----	50	-----	75	300 (149)	-----	2,500 (550)	400 (28)	670 304.2

① Buna N elastomer used in Mechanical Seal of 432 Series pumps.

② Valve integral with pump casing. Right-hand port standard.

③ “G” Size pump has steel idler.

④ “Q” Size pump has steel idler.

⑤ Mechanical Seal pumps not recommended on applications with viscosities above 15,000 SSU (3,300 cSt).

⑥ Ports are suitable for use with 125# ANSI cast iron or 150# ANSI steel companion flanges or flanged fittings. All others tapped for standard pipe.

⑦ 50 PSI (3 BAR) maximum for bronze fitted pumps.

⑧ 100 PSI (7 BAR) maximum for bronze fitted pumps.

⑨ With extra clearance, pumps can be used to 500 PSI (34 BAR) on intermittent duty.

⑩ With special construction, temperature to 500°F. can be handled with seal pumps and to 650°F. with packed pumps.

⑪ Not available in steel fitted construction.

⑫ Mechanical seal seat has bronze bushing.

⑬ Check factory before using bronze rotors at viscosities normally requiring steel fitted construction.

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