

<b>VIKING PUMP CANADA</b>	<b>TECHNICAL DATA SHEET</b>		FORM	TDS-124
	<b>ROTARY GEAR POSITIVE DISPLACEMENT PUMPS</b>		PAGE	1 OF 1
	<b>SERIES 124 - HEAVY DUTY PUMPS</b>		ISSUE	1/1/2017



THE RUGGED, YET SIMPLE, DESIGN OF THE 124 SERIES PUMPS ASSURES LONG LIFE AND TROUBLE FREE OPERATION IN NORMAL-DUTY INSTALLATIONS AND OUTSTANDING PERFORMANCE WHEN HANDLING LIQUIDS AT GREATER PRESSURES.

THEY ARE DESIGNED TO WORK EQUALLY WELL IN BOTH DIRECTIONS AND POSSESS EXCELLENT VACUUM DEVELOPING CHARACTERISTICS.

THIS SERIES OF PUMPS PROVIDES A CONTINUOUS AND STEADY STREAM OF LIQUID WITHOUT FOAMING OR CHURNING.

INTEGRAL RELIEF VALVE SUPPLIED AS STANDARD.

SUITED FOR GEAR REDUCTION, V-BELT AND TIMING BELT ARRANGEMENTS WITHOUT ADDITIONAL SHAFT SUPPORT.

SERIES 124 PUMPS AVAILABLE IN A WIDE VARIETY OF MATERIALS OF CONSTRUCTION TO SUIT YOUR APPLICATION. CONSULT FACTORY FOR DETAILS.

**CAPACITIES: TO 643 L/MIN (170 USGPM)**

**DIFFERENTIAL PRESSURES: to 1,380 kPa (200 PSI)**

**TEMPERATURES: to 343°C (650°F)**

**VISCOSITIES: to 440,000 cSt (2,000,000 SSU)**

#### CONSTRUCTION FEATURES

- **RELIEF VALVE** – (STD.) TO PROTECT AGAINST EXCESSIVE PRESSURES, PUMPS ARE SUPPLIED WITH INTEGRAL, HEAD MOUNTED RELIEF VALVES. RETURN TO TANK VALVES IS AVAILABLE ON ALL MODELS.
- **END CLEARANCE ADJUSTMENT** – THE 124 SERIES ARE MANUFACTURED WITH POSITIVE THRUST CONTROL ALLOWING ACCURATE END CLEARANCE ADJUSTMENT.
- **STUFFING BOX** – MULTI RING PACKING (STD.) IS PROVIDED TO REDUCE POSSIBLE LEAKAGE TO AN ABSOLUTE MINIMUM. MECHANICAL SEALS (OPTIONAL) CAN BE PROVIDED. MATERIAL COMBINATIONS CAN BE SUPPLIED TO SUIT LIQUID BEING PUMPED.
- **CASING** – THE 124 SERIES IS SUPPLIED WITH A HEAVY DUTY CASING THAT CAN BE REVOLVED TO EIGHT DIFFERENT POSITIONS.
- **DRIVE ARRANGEMENTS** – (OPTIONAL) THE 124 SERIES PUMPS CAN BE PROVIDED WITH V-BELT, TIMING BELT, DIRECT DRIVE, GEAR REDUCER, AND GEAR MOTOR DRIVE ARRANGEMENTS TO SUIT YOUR APPLICATIONS.

#### STANDARD CONSTRUCTION

CASING, HEAD, BRACKET	ROTOR (2)	IDLER	SHAFT	IDLER PIN	IDLER AND BRACKET BUSHING (3)		SHAFT SEAL (4) (5)		INTEGRAL RELIEF VALVE (6)
					STANDARD	OPTION	STANDARD	OPTION	
IRON	IRON	IRON	STEEL	STEEL	BRONZE	CARBON GRAPHITE	PACKED	MECHANICAL SEAL	IRON / BRONZE FITTED

#### SPECIFICATIONS

MODEL NO.	PORT SIZE (INCH)	NOMINAL PUMP RATING AT			MOTOR POWER REQUIRED BASED ON RATED SPEED 21 cSt (100 SSU)				MAXIMUM HYDRO- STATIC PRESSURE		MAX.REC. DISCHARGE PRESSURE		MAXIMUM RECOMMENDED TEMPERATURE				APPROX. SHIPPING WEIGHT	
		345 kPa (50 PSI) 21 cSt (100 SSU)			345 kPa (50 PSI)		690 kPa (100 PSI)		PSI	kPa	PSI	kPa	PACKED		MECHANICAL SEAL		LB	KG
		GPM	L/MIN	RPM	HP	kW	HP	kW					°F	°C	°F	°C		
J-124	1½" NPT	30	114	640	1.5	1.12	3	2.24	400	2758	200	1379	450	232	225	107	90	41
K-124	2" NPT	63	238	640	3	2.24	6	4.48	400	2758	200	1379	450	232	225	107	105	48
KK-124	2" NPT	84	318	640	4	2.98	7	5.22	400	2758	200	1379	450	232	225	107	110	50
L-124	2" NPT	140	530	640	7	5.22	12.5	9.33	400	2758	200	1379	450	232	225	107	160	73
LQ-124	3" FLANGED	140	530	640	7	5.22	12.5	9.33	400	2758	200	1379	450	232	225	107	170	77
LL-124	3" FLANGED	138	522	520	6	4.48	11.5	8.58	400	2758	200	1379	450	232	225	107	195	89
LM-124	3" FLANGED	170	643	520	6.5	4.85	12	8.95	400	2758	200	1379	450	232	225	107	195	89

1. FOR HIGHER TEMPERATURES CONSULT FACTORY RECOMMENDATIONS.

2. LM-124 ROTOR IS DUCTALLOY.

3. OTHER BUSHINGS AVAILABLE TO SUIT APPLICATION. MODEL LM-124 STANDARD BUSHINGS ARE CARBON GRAPHITE.

4. STANDARD PACKING IS C-1065 GRAPHITE/PTFE

5. STANDARD MECHANICAL SEAL IS BUNA. VITON OR PTFE ARE AVAILABLE AS OPTIONS.

6. STANDARD RELIEF VALVE IS IRON HOUSED, BRONZE FITTED. ALL IRON RV IS AVAILABLE UPON REQUEST.