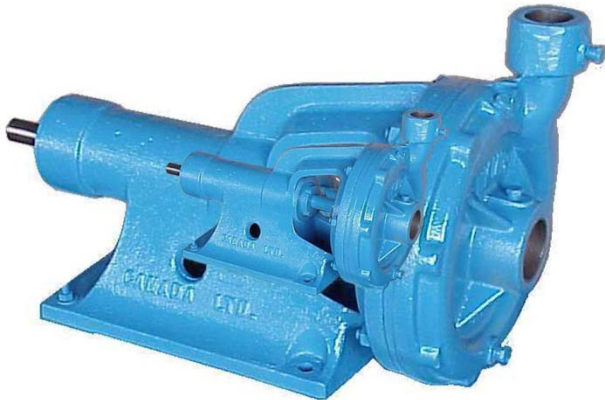


VIKING PUMP CANADA	TECHNICAL DATA SHEET	FORM	TDS-540
	CENTRIFUGAL PUMPS	PAGE	1 OF 1
	SERIES 540 – HEAVY DUTY AND SUCTION PUMPS	ISSUE	1/1/2017



THE SERIES 540 HEAVY DUTY END SUCTION CENTRIFUGAL PUMPS ARE DESIGNED FOR INDUSTRIAL SERVICES.

VIKING PUMP CENTRIFUGAL PUMPS ARE OFFERED IN A WIDE RANGE OF SIZES CAPABLE OF MEETING APPLICATIONS REQUIRED IN TODAY'S INDUSTRY.

CAPACITIES: TO 500 USGPM (1893 L/M)

HEADS: TO 250 FEET (76 M)

TEMPERATURES: TO 250°F (121°C)

CONSTRUCTION FEATURES

- **IMPELLER** – IS OF NON- CLOGGING TYPE WITH EXTRA HEAVY VANES. SEMI-OPEN DESIGN PERMITS PASSING OF FOREIGN MATERIAL AND THE HANDLING OF CLEAN OR DIRTY LIQUIDS. IMPELLER IS STATICALLY AND HYDRAULICALLY BALANCED.
- **SHAFT** – IS OF STAINLESS STEEL ACCURATELY MACHINED TO ENSURE PROPER FIT OF IMPELLER AND BEARINGS. AMPLE DIAMETER PREVENTS DEFLECTION AT ALL OPERATING SPEEDS.
- **CASING** – VERTICALLY SPLIT DESIGN. DISCHARGE MAY BE ROTATED EVERY 45° FROM REGULAR TOP VERTICAL POSITION TO FACILITATE PIPING. CASING HAS TAPPED OPENINGS FOR PRIMING, VENT, DRAIN AND GAUGE CONNECTIONS. DESIGNED FOR 150 PSI MAXIMUM WORKING PRESSURE.
- **SHAFT ADJUSTMENT** - AXIAL SHAFT ADJUSTMENT PERMITS IMPELLER TO BE ADJUSTED FOR END CLEARANCE, MAINTAINING PUMPING EFFICIENCY AT ALL TIMES. SHAFT ADJUSTMENT NUT PREVENTS ANY FORWARD AXIAL MOVEMENT OF IMPELLER DURING PUMP OPERATION.
- **STUFFING BOX** – IS A MULTI-RING PACKED GLAND MECHANICAL SEALS IN BUNA-N, VITON, AND PTFE ARE AVAILABLE AS AN OPTIONAL FEATURE.
- **BEARINGS** – ARE HEAVY DUTY, BALL TYPE, GREASE LUBRICATED. BEARING HOUSING HAS INTEGRAL SUPPORT FOOT FOR ACCURATE, PERMANENT ALIGNMENT OF BEARINGS AND RIGID SUPPORT OF SHAFT.

STANDARD CONSTRUCTION

PUMP CONSTRUCTION	CASING	IMPELLER	BACK PLATE ADAPTER ITEM	SHAFT ITEM	PACKING GLAND ITEM	BEARING HOUSING ITEM
STANDARD FITTED	CAST IRON	CAST IRON	CAST IRON	STAINLESS STEEL	IRON	CAST IRON

SPECIFICATIONS

MODEL	PORT SIZE (INCH)		1750 RPM				3500 RPM			
			CAPACITY		HEAD		CAPACITY		HEAD	
	SUCTION	DISCHARGE	USGPM	L/S	FEET	kPa	USGPM	L/S	FEET	kPa
1-1	1½"	1"	26	1.64	28	83.59	55	3.47	110	328.41
1-1A	1½"	1"	33	2.08	50	149.28	60	3.79	220	656.81
1-1½	2"	1½"	62	3.91	32	95.54	125	7.89	120	358.26
1-1½A	2"	1½"	115	7.26	53	158.23	190	11.99	220	656.81
1-2	2½"	2"	80	5.05	32	95.54	160	10.09	130	388.12
1-2½	3"	3"	137	8.64	30	89.57	300	18.93	118	352.29
2-1½	2"	1½"	118	7.44	75	223.91	160	10.09	265	791.16
2-2	2½"	2"	160	10.09	80	238.84	230	14.51	275	821.02
2-3	3"	3"	275	17.35	70	208.99	425	26.81	275	821.02
2-4	4"	4"	500	31.55	70	208.99				

NOTE: CONSULT PERFORMANCE CURVES FOR ACTUAL CONDITIONS AND FOR OPERATION WITH TRIMMED IMPELLERS. ABOVE BASED ON SPECIFIC GRAVITY OF 1.0