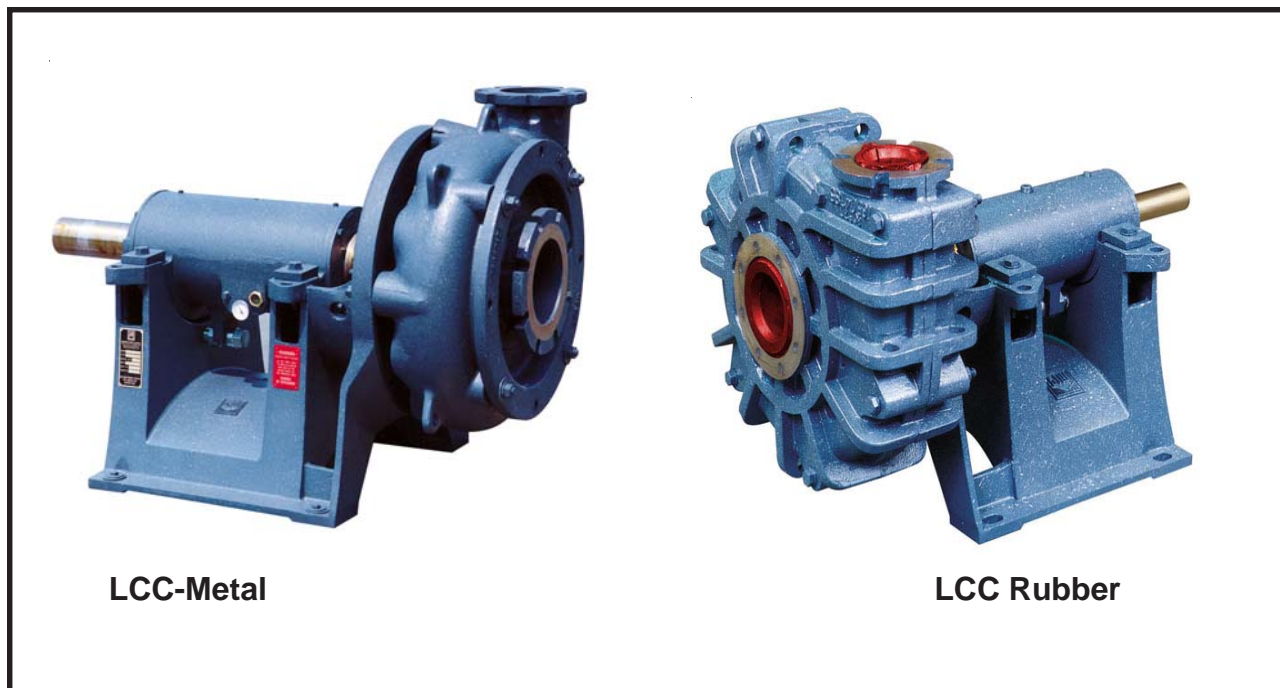


Product Introduction

LCC



LCC-Metal

LCC Rubber

Application

High performance abrasion resistant slurry pump for medium and severe services. The LCC offers outstanding efficiencies, wear life and a maintenance friendly design, which translates into the lowest total cost of ownership.

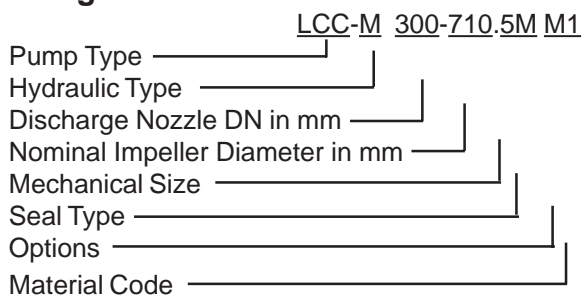
Design

Horizontal, end suction, modified volute casing pump includes three vane impeller for large solids passage with good suction performance, high efficiency and good wear characteristics over a broad operating range. Interchangeable rubber and metal designs allow best material choice for any application. The single stage, compact arrangement allows easy maintenance of wet end components, and fast mechanical end service.

Operating Limits

		<i>Metal</i>	<i>Rubber</i>
Pump Sizes	Discharge	50 - 300 mm 2" - 12"	50 - 300 mm 2" - 12"
Capacity	Q max	3,865 m ³ /h 17,000 gpm	2,260 m ³ /h 10,000 gpm
Heads	H max	90 m 300 ft	45 m 150 ft

Designation



Hydraulic Type

- M.....Metal
- R.....Rubber
- H.....Heavy Construction

Mechanical (Frame) Size

1	2	3	4	5
35mm	50 mm	70 mm	100mm	125 mm

Seal Type

- K.....KE
- B.....Throat Bushing
- M.....Mechanical Seal
- E.....Expeller

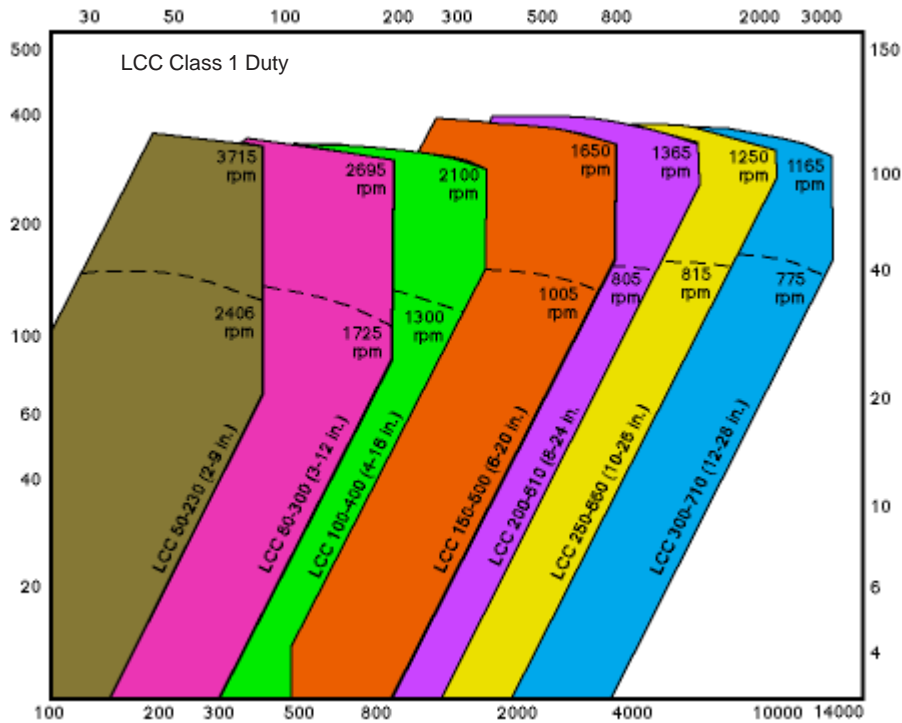
Options

- O.....Open Shroud Impeller
- A.....Oil Lubricated
- T.....Turn Down Impeller
- U.....Underwater Bearing Assembly
- C.....Elastomer Impeller
- (no designation).....Grease Lubrication

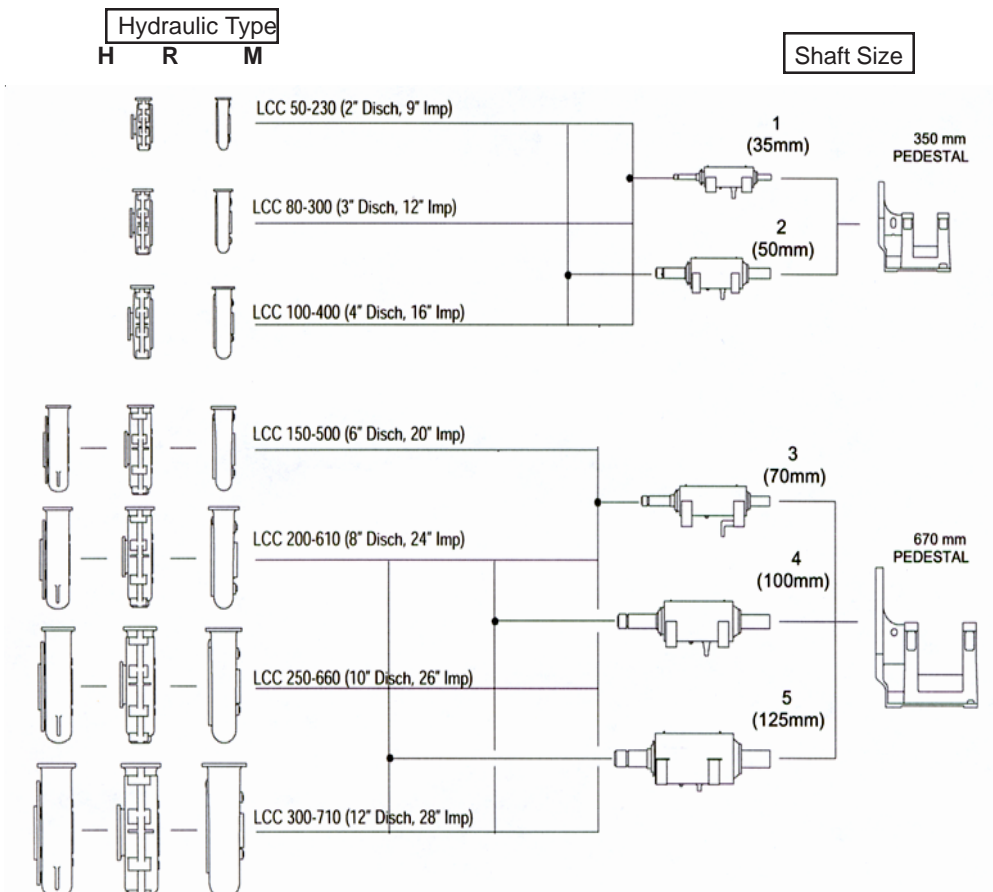


Selection Chart

For use as a guide only. LCC's are equipped with full-diameter impellers. Actual operating speeds are obtained through V-belt drives, gear reducers, variable frequency drives or other speed-changing drives.



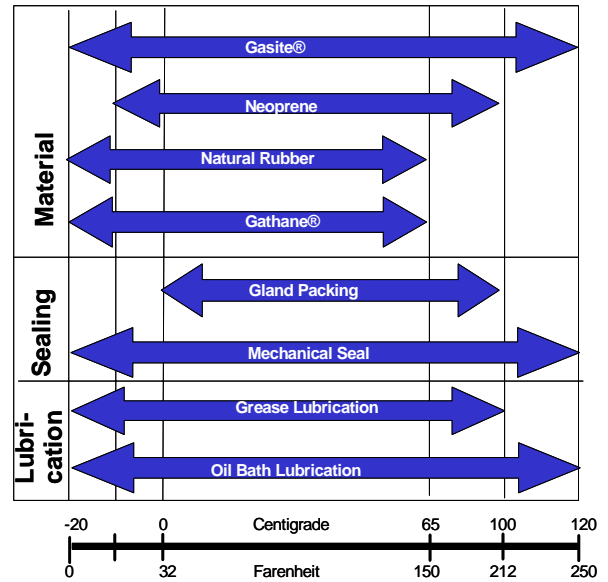
Interchangeability Chart





Pressure, Sphere Passage and Temperature Limits

Pump Size	Maximum Operating Pressure*			Sphere Passage
	Std. Metal	Mark II Elastomer	Extra Heavy Metal	Std. Metal
LCC	bar/psi	bar/psi	bar/psi	mm/inch
50-230	16/230	16/230	na	23/.91
80-300	11/160	16/230	na	25/1.0
100-400	9.5/140	16/230	na	38/1.50
150-500	9/130	16/230	16/230	76/3.0
200-610	8.5/120	16/230	16/230	102/4.0
250-660	9/130	16/230	16/230	127/5.0
300-710	7.5/110	16/230	16/230	138/5.3



Rotation Direction: Clockwise as seen from drive end
Position of Discharge: Vertical (std) and 45° increments

* For Standard Packing. Mechanical Seal Pressure may be different.

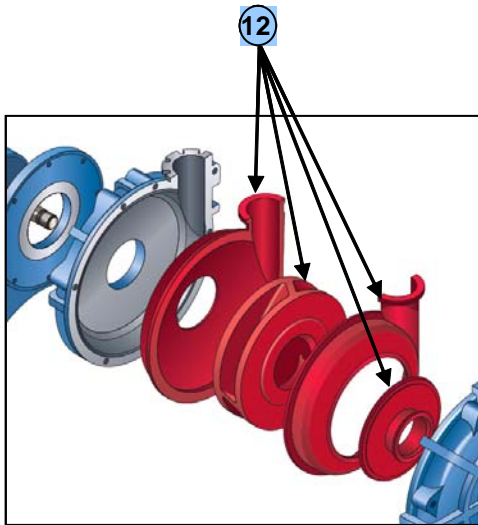
STANDARD MATERIALS

Part No.	Description	Standard		Corrosion Resistant	
		METAL	RUBBER LINED*	METAL	RUBBER LINED*
101	Shell	Gasite® WD28G	N/A	Gasite® WD28G	N/A
10-7	Expeller Casing	Gasite® WD28G	Gasite® WD28G	Mechanical Seal recommended for no dilution/no leakage	Mechanical Seal recommended for no dilution/no leakage
10-8 10-9	Outer Casings	N/A	Ductile Iron	N/A	Ductile Iron
13-19	Suction Liner	Gasite® WD28G	Linatex®	Gasite® T90G	Linatex®
13-23 13-24	Casing Liners	N/A	Linatex®	N/A	Linatex®
16-1	Suction Plate	Fab Steel	N/A	Fab Steel or Stainless Steel	N/A
16-3	Suction Wear Plate	Gasite® WD28G	N/A	Gasite® T90G	N/A
16-4	Expeller Plate	Gasite® WD28G	Gasite® WD28G	Mechanical Seal recommended for no dilution/no leakage	Mechanical Seal recommended for no dilution/no leakage
18-2	Pedestal	Class 40 Gray Iron	Class 40 Gray Iron	Class 40 Gray Iron	Class 40 Gray Iron
210	Shaft	4150 Steel	4150 Steel	4150 or Stainless Steel	4150 or Stainless Steel
230	Impeller	Gasite® WD28G	Gasite® WD28G, Gathane® or Linatex®	Gasite® T90G	Gasite® WD28G, Gathane® or Linatex®
23-15	Expeller	Gasite® WD28G	Gasite® WD28G	Mechanical Seal recommended for no dilution/no leakage	Mechanical Seal recommended for no dilution/no leakage
350	Bearing Housing	Class 40 Gray Iron	Class 40 Gray Iron	Class 40 Gray Iron	Class 40 Gray Iron
451	Stuffing Box Housing	Class 40 Gray Iron	Class 40 Gray Iron	Stainless Steel	Stainless Steel
524	Shaft Sleeve	Carbide Coated Steel	Carbide Coated Steel	Carbide Coated or Stainless Steel	Carbide Coated or Stainless Steel

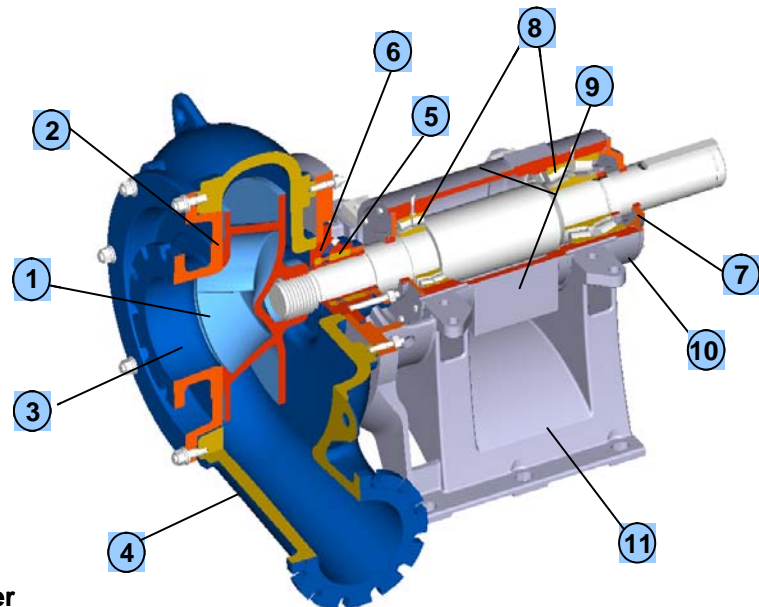
*Precision molded LINATEX® rubber parts

LINATEX® is the registered trademark of Linatex, LTD.

Lowest Life Cycle Cost in Metal or Rubber



RUBBER: Replaceable bolt-in, high wear life **rubber liners** for fine to medium sized solids. Precision molded **rubber impeller** is also available. Linatex® is the single rubber supplier for the GIW LCC-R pump.



METAL: Abrasion resistant hard iron wet end using GIW's high chrome Gasite® alloy.

Wear Parts

- ① Twisted vane impeller design for high efficiency, large passage and superior suction performance.
- ② Impeller suction side pump out vanes minimize wear.
- ③ One piece suction plate/liner simplifies maintenance.
- ④ Pump shell is computer designed to optimize wear and efficiency. Designed for ease of assembly and maintenance.
- ⑤ Fused carbide coated shaft sleeve for long packing life.

Pump Sealing

- ⑥ Standard stuffing box with optional mechanical seal or expeller version.

Mechanical End

- ⑦ Inpro® labyrinth shaft seals to protect bearings.
- ⑧ Radial end double spherical roller bearing and drive end heavy duty tapered roller bearing for high thrust capacity.
- ⑨ Concentric design cartridge bearing housing for easy assembly and excellent packing life.

Impeller Adjustment

- ⑩ Accurate impeller clearance adjustments are easily made with the adjusting screw.

Quick Alignment

- ⑪ The one piece, cast iron pedestal for rigid installation and rapid field maintenance.

Interchangeability

- ⑫ Rubber and metal wet ends allow best material choice for any application.