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Ideas Beyond Imagination

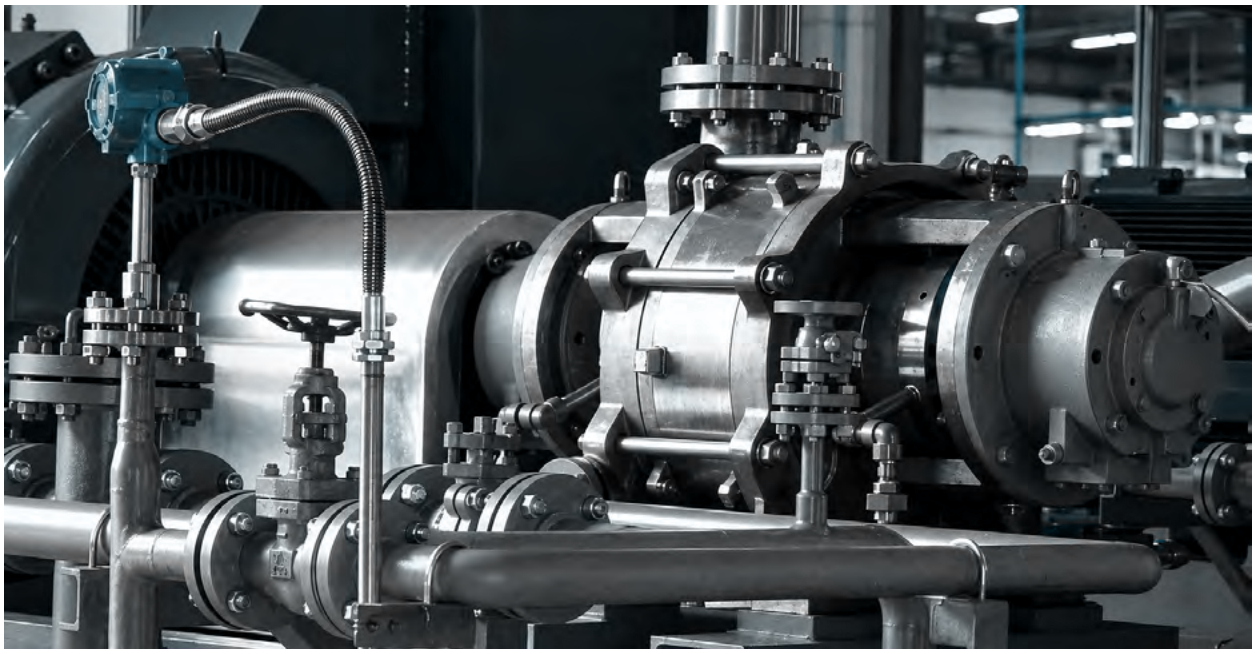
Glorinda Liquid Ring Compressors



Efficient Compression. Proven Reliability.

www.glorinda.com

Liquid Ring Compressors



Introduction

Glorinda LRC Series Liquid Ring Compressors are high-performance machines designed for stable and safe gas compression. They are developed based on advanced international experience and modern hydraulic design. The compressor has a simple and compact structure, high energy efficiency, and reliable operation. During compression, the process is close to isothermal, which helps reduce risk when handling flammable or explosive gases.

Advantages

- Single-stage impeller with pressure up to **0.7 MPaG**
- High compression ratio with stable performance
- Rear bearing positioning with adjustable clearance
- Thin oil lubrication for bearings to support higher load
- Upper suction and side discharge for easy and smooth start-up
- Bolted pump casing for safe and reliable operation
- Compact design with easy operation and maintenance

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Applications

- **Petrochemical industry:** process gas compression and recovery
- **Flare and torch gas systems:** gas transport and recycling
- **Pharmaceutical industry:** gas handling and recovery
- **Chlor-alkali industry:** process gas compression
- **Sewage treatment plants:** gas transfer and compression
- **Special applications:** safe compression of flammable and explosive gases

The LRC Series is engineered and supplied by **Glorinda**, providing safe, efficient, and reliable solutions for industrial gas compression systems.

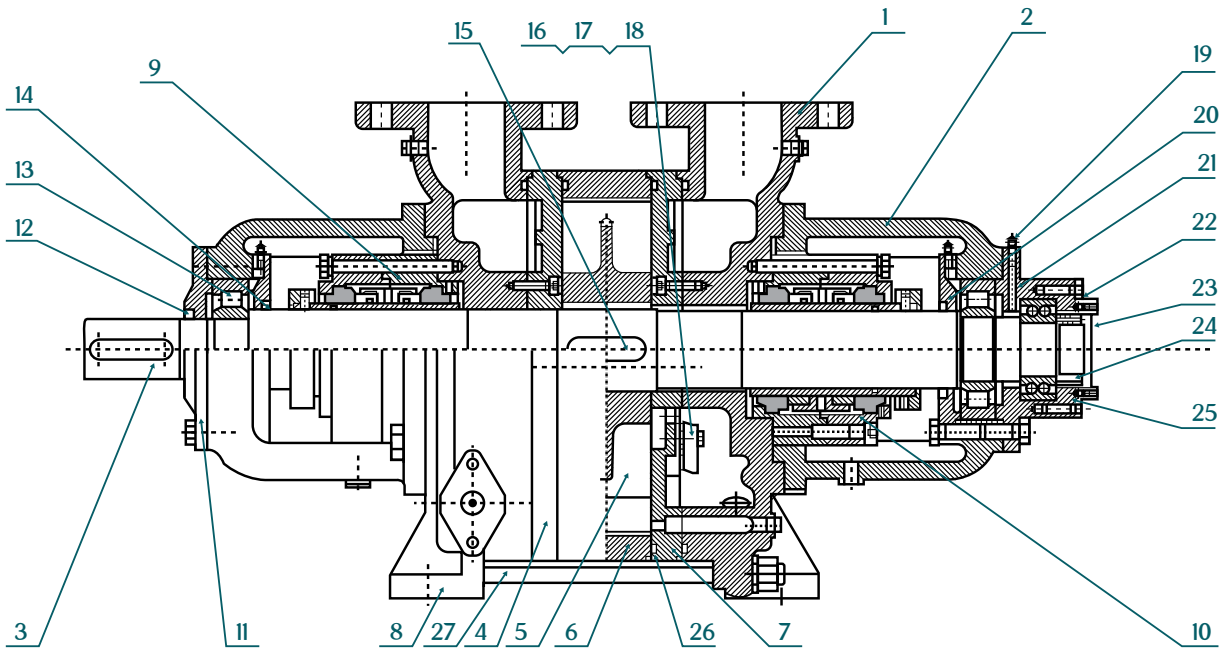


Technical Specification

Model	Speed [r/min]	Motor Power [kW]	Ultimate Vacuum [MPaG]	Suction Capacity [m^3/min]	Water Supply [m^3/h]
GLRC-S1-H-P7-1	2900	55	0.7 MPaG	≥3	1.5-2
GLRC-S1-H-P7-2	2900	90	0.7 MPaG	≥6	3-4
GLRC-S1-H-P7-3	2900	132	0.7 MPaG	≥9	5-6
GLRC-S1-H-P7-4	2900	160	0.7 MPaG	≥12	7-8
GLRC-S1-H-P7-6	1450	185	0.7 MPaG	≥15	8-10
GLRC-S1-H-P7-10	1450	250	0.7 MPaG	≥20	10-12
GLRC-S1-H-P7-16	1450	280	0.7 MPaG	≥25	13-15
GLRC-S1-H-P7-25	1450	355	0.7 MPaG	≥30	16-19
GLRC-S1-H-P7-40	1450	400	0.7 MPaG	≥40	20-24

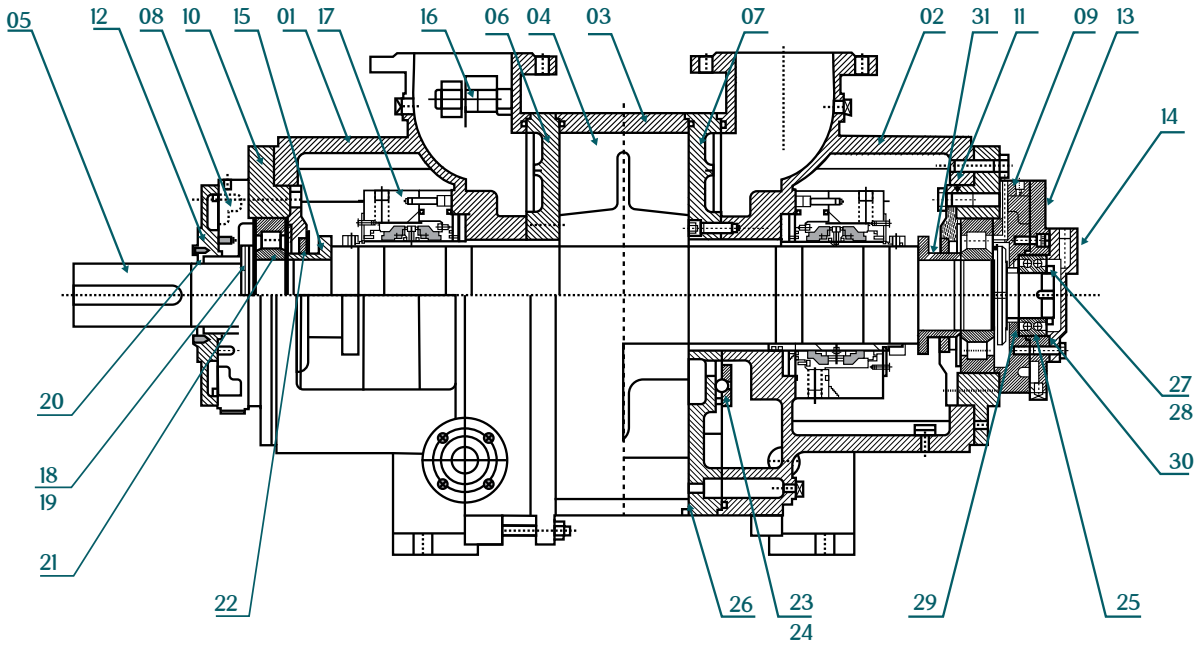
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Cross-sectional drawing of GLRC 1/2/3/4



No.	Name	No.	Name	No.	Name	No.	Name
1	Back pump cover	**2**	Bearing pedestal	**3**	Pump shaft	**4**	Front port plate
5	Impeller	**6**	Pump body	**7**	Back port plate	**8**	Front pump cover
9	Mechanical seal	**10**	Mechanical seal	**11**	Front bearing cap	**12**	Oil seal
13	Bearing	**14**	Inner bearing cap	**15**	Key	**16**	Exhaust pressure plate
17	Support ring	**18**	PTFE ball	**19**	Grease nipple	**20**	Oil seal
21	Locating bearing pedestal	**22**	Back bearing housing	**23**	Back bearing cap	**24**	MSR lock nut
25	Back bearing	**26**	O-ring	**27**	Tension bolt		

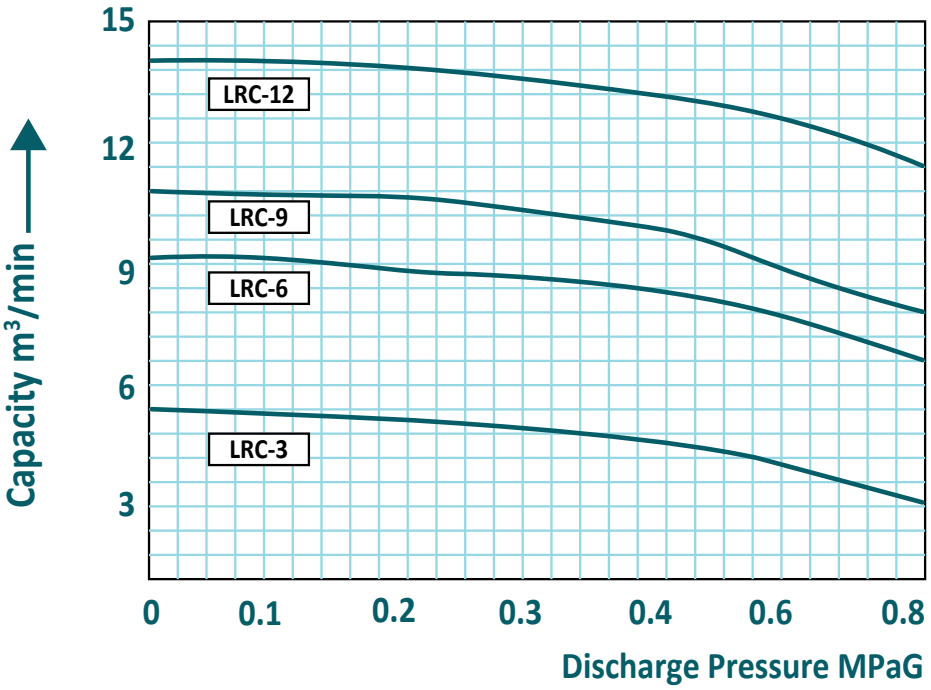
Cross-sectional drawing of GLRC 6/10/25/40

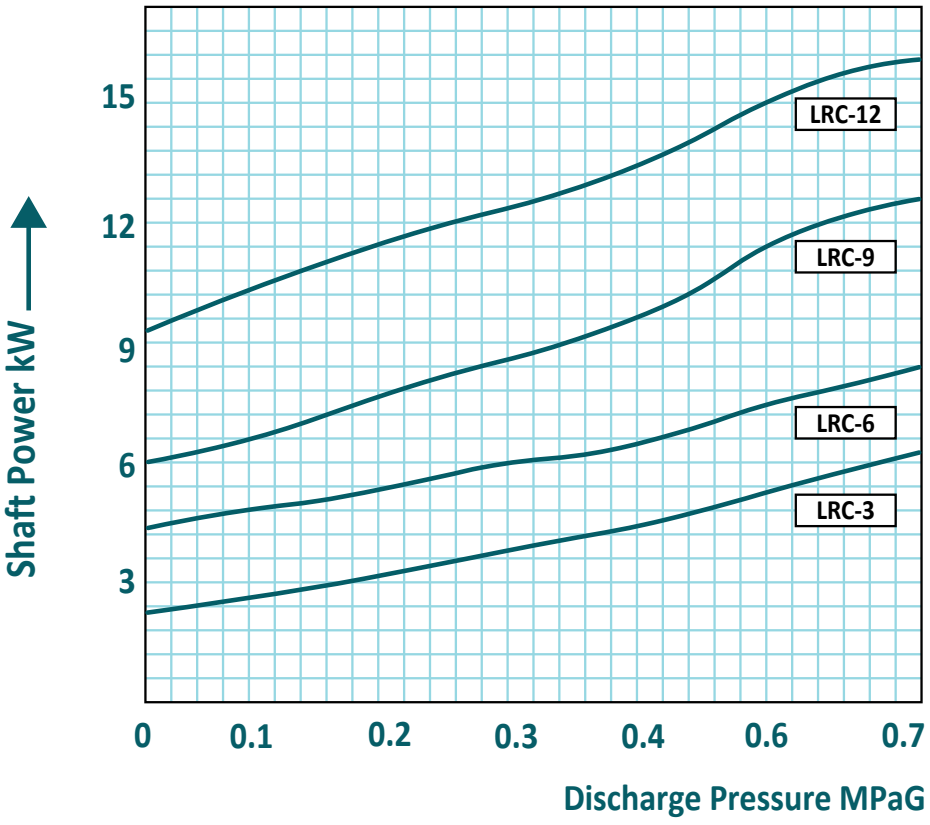


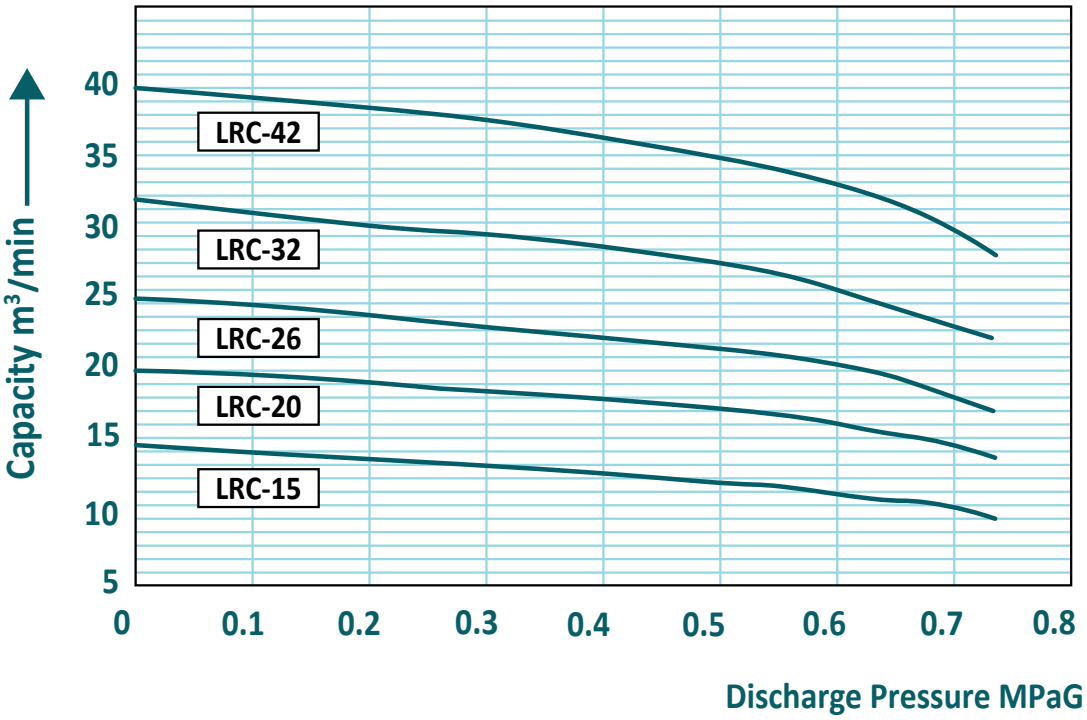
No.	Name	No.	Name	No.	Name	No.	Name
1	Front pump cover	**2**	Back pump cover	**3**	Pump body	**4**	Pump body
5	Pump shaft	**6**	Front port plate	**7**	Back port plate	**8**	Front cooling chamber
9	Back cooling chamber	**10**	Bearing pedestal	**11**	Inner bearing cap	**12**	Front bearing cap
13	Locating bearing pedestal	**14**	Back bearing cap	**15**	T-type shaft sleeve	**16**	Tension bolt
17	Mechanical seal	**18**	Retaining washer	**19**	Round nut	**20**	Oil seal
21	Bearing	**22**	Oil seal	**23**	PTFE ball	**24**	Exhaust pressure plate
25	Positioning bearing	**26**	O-ring	**27**	Retaining washer	**28**	Round nut
29	Round nut	**30**	Bearing adjusting shim	**31**	Set screw	**32**	

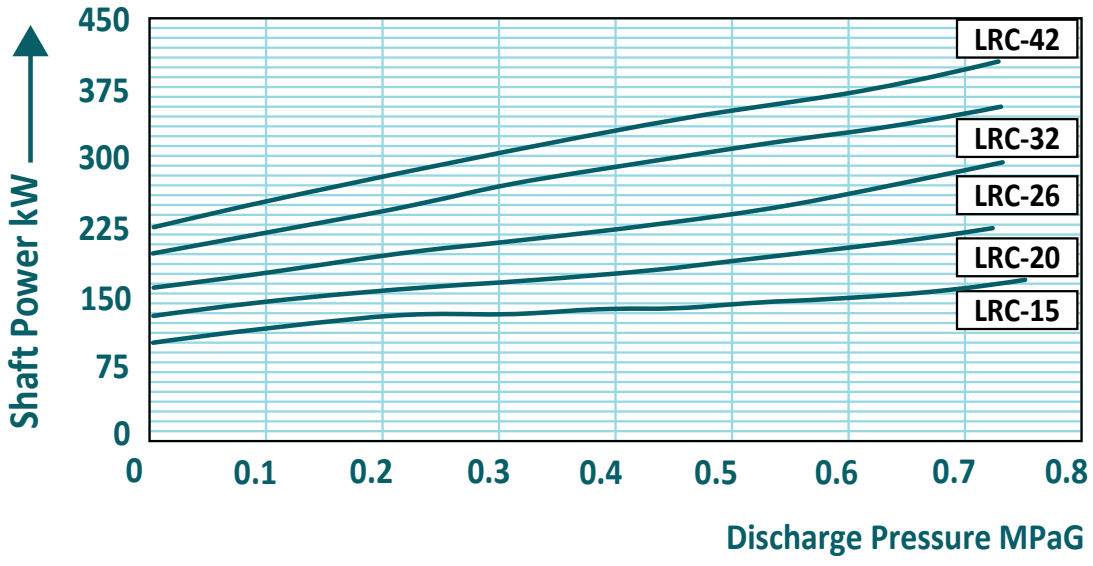
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Performance Curves






Capacity m³/min
40
35
30
25
20
15
10
5
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
LRC-42
LRC-32
LRC-26
LRC-20
LRC-15
Discharge Pressure MPaG

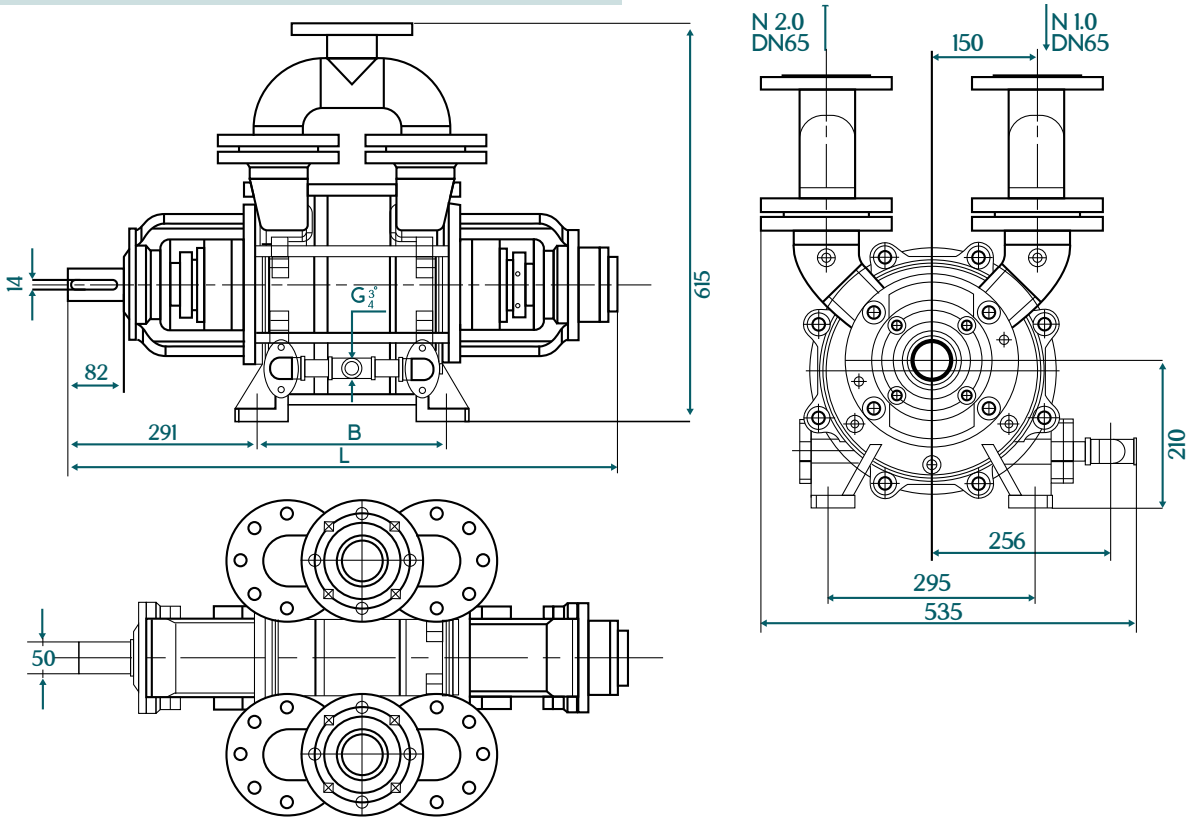

Shaft Power kW
450
375
300
225
150
75
0
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
LRC-42
LRC-32
LRC-26
LRC-20
LRC-15
Discharge Pressure MPaG

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Material of spare parts of GLRC-1/2/3/4

Pump Cover	Impeller	Separate Plate	Pump Casing	Shaft	Bearing Gland	O-ring
HT200/SS304	SS304	SS304	SS304	45#steel/	HT200	Rubber/Teflon
Note: The above data represents standard configuration specifications, our company can produce non-standard products according to customer requirements, please contact us.						

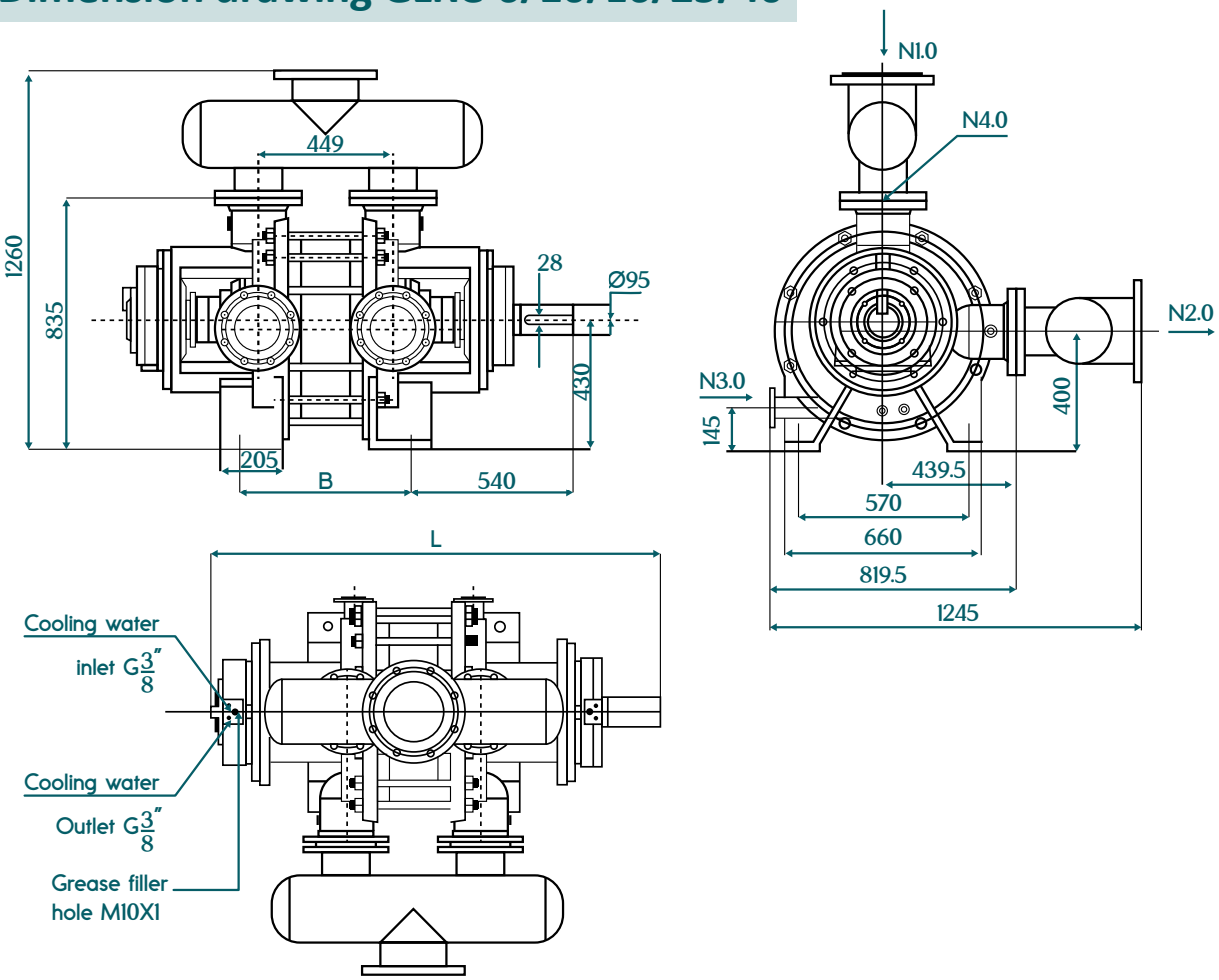
Dimension drawing GLRC-1/2/3/4



Dimension Chart			N.0-N5.0				
Model	B	L	FLANGE	DN	N-d	K	D
GLRC-1	294	848	N1.0	65	4-18	145	185
GLRC-2	359	913	N2.0	65	4-18	145	185
GLRC-3	424	978					
GLRC-4	494	1048					

NOTE: All dimensions in this brochure are for reference only, final dimensions are subject to our specification.

Dimension drawing GLRC-6/10/16/25/40



Dimension Chart			N.0-N5.0				
Model	B	L	FLANGE	DN	N-d	K	D
GLRC-6	535	1465	N1.0	200	8-22	295	340
GLRC-10	570	1652	N2.0	200	8-22	295	340
GLRC-16	620	1702	N3.0	40	4-14	100	130
GLRC-25	680	1762	N4.0	150	8-22	240	285
GLRC-40	720	1802					

Motor direct driving

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Klingholzstr.7,D-65189 Wiesbaden, Germany info@glorinda.com
+49(0) 611 97774 235 glorinda www.glorinda.com