

For Non-evaporating Liquids

LKHI Centrifugal Pump for 232 PSI (16 bar) Inlet Pressure

Application

The LKHI pump is a highly efficient and economical centrifugal pump, specially designed for inlet pressures up to 232 PSI (16 bar). LKHI meets the requirements of sanitary and gentle product treatment and chemical resistance, and is available in nine sizes, LKHI-10, -15, -20, -25, -35, -40, -45, -50, -60.

Standard Design

The LKHI pump consists of a special motor, stub shaft, compression coupling, adaptor, back plate, impeller, pump casing and shaft seal. The LKHI pump is designed for CIP-cleaning with emphasis on large internal roundings and easily cleanable seals. LKHI is a sanitary pump. The complete unit is supported on four adjustable stainless steel legs.

Shaft seals

LKHI can be fitted with two types of mechanical seals:

- Single internal seal.
- Flushed seal.

Both seal types have stationary seal rings of silicon carbide and rotating seal rings of carbon or silicon carbide:

1. Silicon carbide/carbon for inlet pressure up to 145 PSI (10 bar).
2. Silicon carbide/silicon carbide for inlet pressure higher than 145 PSI (10 bar).

The secondary seal of the flushed seal is a long lasting lip seal.



LKHI.

Materials

Product wetted steel parts:	Acid-resistant steel, AISI 316L
Other steel parts:	Stainless steel, AISI 304
Product wetted seals:	EPDM.
Other O-rings:	EPDM.
Finish:	32Ra

Technical data

Max. inlet pressure:	232 PSI (16 bar)
Temperature range	14° F to 284° F (EPDM).
Water pressure:	Normally atmospheric.
(Flushed seal)	max. 14.5 PSI (1 bar)
Water consumption:	0.07 -0.13 gpm.
(Flushed seal)	
Noise level (at 3.3 ft.):	60 - 80 dB (A).

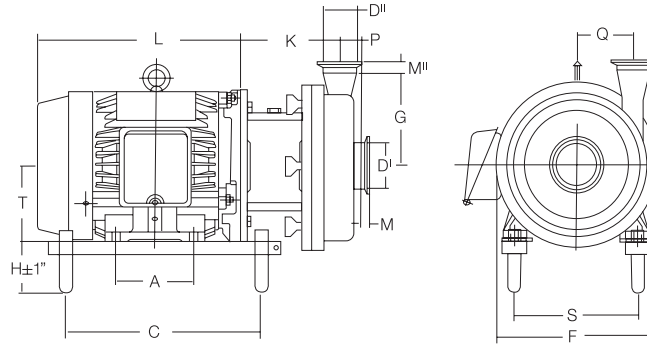
Motor

Standard C-faced, foot mounted motor according to NEMA standard. 3500 RPM or 1750 RPM. Standard efficiency, Class F. Note frame size per horsepower.

Voltage and frequency

3 phase, 60 HZ, 230/460V standard. Other voltages and frequencies available upon request.

Dimensions (in)



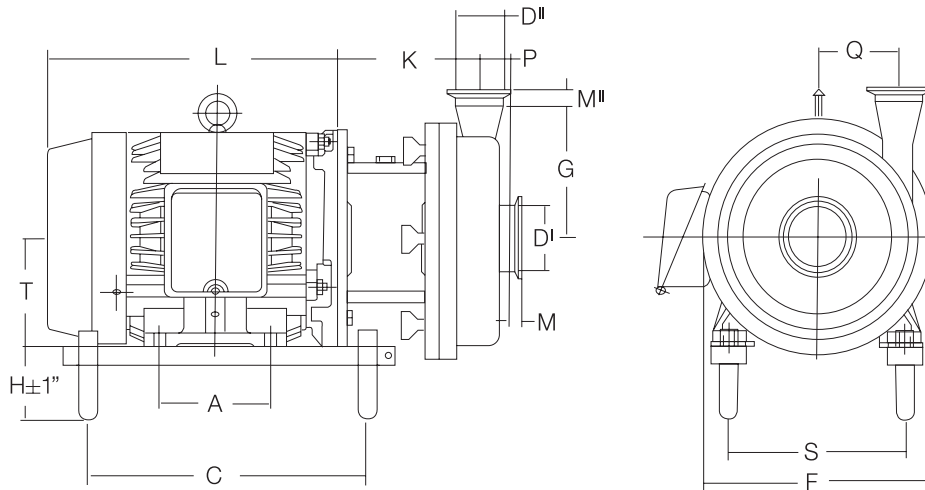
LKH-10

Size	Motor						
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)
A	4.00	4.00	5.00	4.50	5.50	5.50	7.00
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17
F	9.72	9.72	9.72	9.72	9.72	9.72	9.72
G	5.59	5.59	5.59	5.59	5.59	5.59	5.59
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.35	5.35	5.35	5.87	5.87	5.87	5.87
L	16.91	16.91	18.22	19.41	19.69	23.20	24.74
P	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Q	3.43	3.43	3.43	3.43	3.43	3.43	3.43
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25
Approximate weight (lbs.)	81.00	89.00	91.00	111.00	128.00	179.00	204.00

LKH-15

Size	Motor							
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)
A	4.00	4.00	5.00	4.50	5.50	5.50	7.00	7.00
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17	19.02
F	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72
G	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.98	5.98	5.98	6.50	6.50	7.24	7.24	8.25
L	18.33	18.33	19.32	20.33	21.38	24.62	25.03	29.76
P	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
Q	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50	8.50
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25	5.25
Approximate weight (lbs.)	88.00	96.00	98.00	118.00	135.00	186.00	211.00	304.00

Dimensions (in)



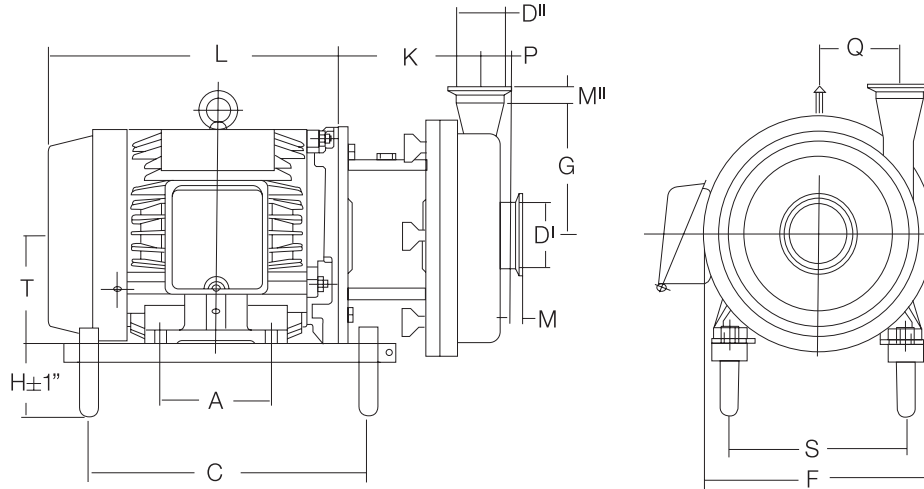
LKH-20

Size	Motor							
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)
A	4.00	4.00	5.00	4.50	5.50	5.50	7.00	8.25
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17	19.02
F	9.96	9.96	9.96	9.96	9.96	9.96	9.96	9.96
G	7.09	7.09	7.09	7.09	7.09	7.09	7.09	7.09
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.67	5.67	5.67	6.18	6.18	6.93	6.93	7.95
L	17.38	17.38	18.28	19.37	20.42	23.67	25.21	28.82
P	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
Q	3.47	3.47	3.47	3.47	3.47	3.47	3.47	3.47
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50	10.00
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25	5.25
Approximate weight (lbs.)	85.00	93.00	95.00	115.00	132.00	183.00	208.00	301.00

LKH-25

Size	Motor										
	1 Hp (143TC)	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93
G	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.98	5.98	5.98	6.50	6.50	7.24	7.24	8.07	8.07	8.07	8.07
L	17.91	17.91	18.90	19.91	20.96	24.20	25.74	29.16	30.91	32.91	34.41
P	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28
Q	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17	4.17
S	5.51	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	95.00	103.00	105.00	125.00	142.00	193.00	218.00	311.00	361.00	442.00	473.00

Dimensions (in)



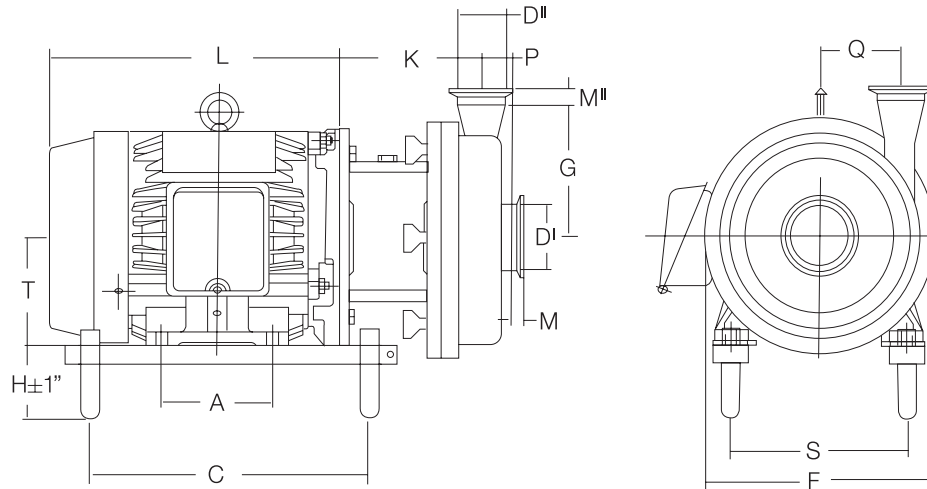
LKH-35

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.27	10.00	9.49	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93
G	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.55	5.55	6.06	6.06	6.81	6.81	7.83	7.83	7.83	7.83
L	17.11	18.10	19.10	20.15	20.15	24.94	28.55	30.30	32.30	33.80
P	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Q	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	11.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	99.00	101.00	121.00	138.00	189.00	214.00	307.00	357.00	438.00	469.00

LKH-40

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 HP (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95
G	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35	8.35
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.75	5.75	6.26	6.26	7.01	7.01	8.03	8.03	8.03	8.03
L	17.50	18.49	19.49	22.54	23.79	25.33	28.94	30.69	32.69	34.19
P	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Q	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96	4.96
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	108.00	110.00	130.00	147.00	198.00	223.00	316.00	366.00	447.00	487.00

Dimensions (in)



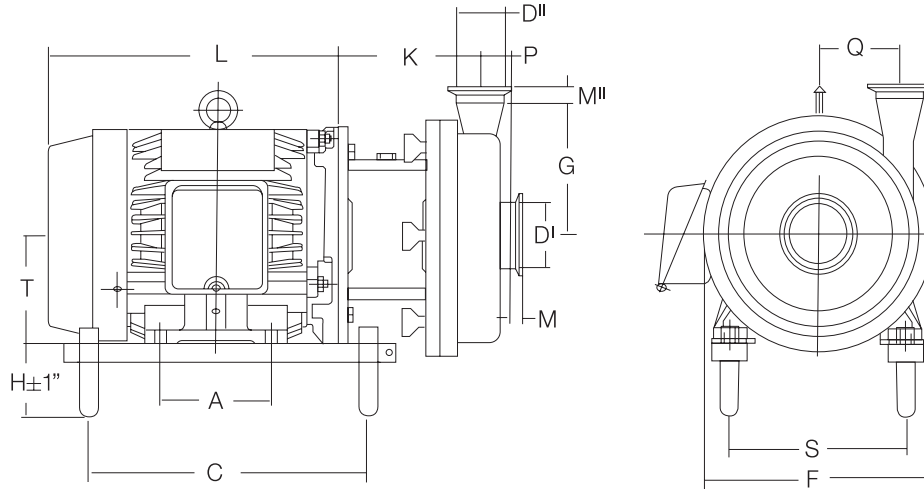
LKH-45

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93
G	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60	7.60
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	6.03	6.03	6.54	6.54	7.29	7.29	8.31	8.31	8.31	8.31
L	18.27	19.26	20.26	21.31	24.56	26.10	29.71	31.46	33.46	34.96
P	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59	1.59
Q	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate Weight (lbs.)	105.00	107.00	127.00	144.00	195.00	220.00	313.00	363.00	444.00	475.00

LKH-50

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95
G	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.91	5.91	6.42	6.42	7.17	7.17	8.27	8.27	8.27	8.27
L	17.98	18.97	19.97	21.02	24.27	26.06	29.50	31.25	33.25	34.75
P	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42	1.42
Q	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	108.00	110.00	130.00	147.00	198.00	223.00	316.00	366.00	447.00	487.00

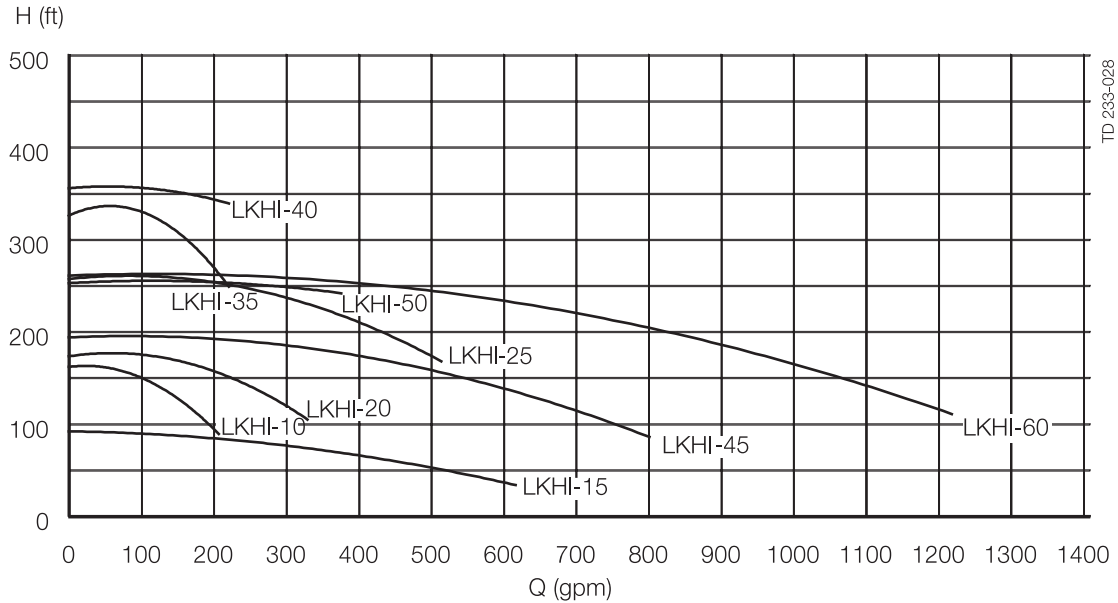
Dimensions (in)



LKH-60

Size	Motor									
	1.5 Hp (143TC)	2 Hp (145TC)	3 Hp (182TC)	5 Hp (184TC)	7.5 Hp (213TC)	10 Hp (215TC)	15 Hp (254TC)	20 Hp (256TC)	25 Hp (284TSC)	30 Hp (286TSC)
A	4.00	5.00	4.50	5.50	5.50	7.00	8.25	10.00	9.50	11.00
C	9.53	9.53	12.60	12.60	14.17	14.17	19.02	19.02	20.00	20.00
F	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95	12.95
G	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98
H	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
K	5.96	5.96	6.47	6.47	7.22	7.22	8.32	8.32	8.32	8.32
L (4 x 4)	19.05	20.04	21.04	22.09	25.34	26.88	30.57	32.32	34.32	35.82
L (6 x 4)	20.63	21.62	22.62	23.67	26.92	28.46	32.15	33.90	35.90	37.40
P (4 x 4)	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44	2.44
P (6 x 4)	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
Q	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
S	5.51	5.51	7.48	7.48	8.50	8.50	10.00	10.00	11.00	11.00
T	3.50	3.50	4.50	4.50	5.25	5.25	6.25	6.25	7.00	7.00
Approximate weight (lbs.)	113.00	115.00	135.00	152.00	209.00	228.00	321.00	371.00	452.00	483.00

Volumetric flow



Inlet/Outlet Connections - Tri-Clamp® (inches)

Refer to dimensional drawings

	LKHI-10 LKHI-20 LKHI-35	LKHI-25	LKHI-40	LKHI-15 LKHI-45 LKHI-50	LKHI-60	LKHI-60
DI	2.50	3.00	3.00	4.00	4.00	6.00
DII	2.00	2.50	2.00	3.00	4.00	4.00
MI	1.13	1.13	1.13	1.13	1.13	1.50
MII	1.13	1.13	1.13	1.13	1.13	1.13

Optional Extras

- Impeller with reduced diameter.
- Impeller screw.
- Motor for other voltage and/or frequency.
- 1500 rpm. motor.
- Motor with increased safety/flame proof motor.
- Flushed shaft seal.
- Seals in Nitrile (NBR) or Fluorinated rubber (FPM).

Material grades

- Surface roughness, product wetted parts: Ra≤0.0315 in.
- Product wetted seals of Nitrile (NBR) or Fluorinated rubber (FPM).
- Rotating seal ring of silicon carbide.

Ordering

Please state the following when ordering:

- Pump size.
- Pressure.
- Connections
- Impeller diameter.
- Motor size.
- Single or flushed shaft seal.
- Optional extras.

Note!

- The curves for LKHI are the same as those for LKH.