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DATA SHEET

# KBL-SERIES

*Peristaltic Metering Pump / Technical Data Sheet*




## FEATURES

- *Tool-free tube change*
- *Improved safety - No rotating parts during tube change*
- *Easy-to-Use interface with one-button switching between local and remote mode*
- *USBC interface allows for downloading of operating history and installation of new software versions*
- *Expandable platform can be field-upgraded to add features and communication options*
- *Multiple tubing options to cover a wide range of chemicals and applications*
- *Assembled in USA*
- *Standard 2-year warranty*

## OPERATING RANGE

- *Maximum flow up to 600 lph (158.5 gph) at full speed*
- *Up to 8.6 bar (125 psi)*
- *2500:1 Turndown*

Ingersoll Rand

# KBL-Series
Data Sheet

## MODEL CODE EXPLANATION

**Sample Part Number: KBL2-4-ACG1-1**

**KBL - X - X - X - X - XX - X**

**Series**
KBL

**Frame**
2 - Size 2
3 - Size 3
4 - Size 4

**Power Cord**
4 - US 115V
5 - US 230V
6 - EU
8 - Australia / New Zealand
9 - UK

**Connector**
A - 1/2" NPT / BSPT (KBL2 and KBL3 include 3/8" tube compression fitting)

**Tube Material**
A - XL Extended Life
B - CR Chemical Resistant
C - PT Petro-Tough

**Tube Detail - ID [in] and Count**
Various Diameters

**Control Levels**
1 - SCADA: Speed control: 4-20 mA i/o
Three contact inputs
Four configurable relay outputs
Frequency
2 - Advanced: Modbus TCP

**NOTICE: All possible options are shown in the chart, however, certain combinations may not be recommended. Consult a representative or the factory if you have questions concerning availability.**

# LMI KBL-Series
Data Sheet

## TUBE ASSEMBLY CODE EXPLANATION

A A D 1

**Connector Type**
A - 1/2" NPT / BSPT
(KBL2 and KBL3 include 3/8" tube compression fitting)

**Tube Material Information**
A - XL Extended Life
B - CR Chemical Resistant
C - PT Petro-Tough

**No. of tubes**
1- Single
2 - Double

**Tube Diameter**
D - 0.075"
E - 0.093" / 0.125"
G - 0.187"
H - 0.25"
K - 0.375"
L - 0.50"
P - 0.75"

## AVAILABLE TUBE ASSEMBLIES

| | MATERIAL | PART # | GPH | L/H | PSI | BAR |
|---|---|---|---|---|---|---|
| KBL2 | XL | AAD1 | 1.7 | 6.5 | 125 | 8.6 |
| | | AAE2 | 4.4 | 16.8 | 110 | 7.6 |
| | | AAG2 | 17.1 | 65.1 | 110 | 7.6 |
| | CR | ABH1 | 14.2 | 54 | 50 | 3.4 |
| | PT | ACG1 | 9.3 | 35.2 | 65 | 4.5 |
| | | ACG2 | 14.9 | 56.7 | 65 | 4.5 |

| | MATERIAL | PART # | GPH | L/H | PSI | BAR |
|---|---|---|---|---|---|---|
| KBL3 | XL | AAD1 | 2.1 | 7.9 | 125 | 8.6 |
| | | AAE2 | 4.7 | 18 | 125 | 8.6 |
| | | AAG2 | 18.9 | 72 | 110 | 7.6 |
| | | AAK1 | 33.2 | 126 | 125 | 8.6 |
| | | AAKL | 33.2 | 126 | 30 | 2.1 |
| | CR | ABK1 | 28.4 | 108 | 50 | 3.4 |
| | PT | ACG1 | 10.1 | 38.4 | 65 | 4.5 |
| | | ACG2 | 18.2 | 69 | 65 | 4.5 |
| | | ACK1 | 28.4 | 108 | 65 | 4.5 |

| | MATERIAL | PART # | GPH | L/H | PSI | BAR |
|---|---|---|---|---|---|---|
| KBL4 | XL | AAH1 | 28.4 | 108 | 125 | 8.6 |
| | | AAH2 | 53.7 | 204 | 100 | 6.9 |
| | | AAL1 | 99.5 | 378 | 50 | 3.4 |
| | | AAP1 | 158.5 | 600 | 30 | 2.1 |
| | CR | ABK1 | 53.7 | 204 | 30 | 2.1 |
| | | ABK2 | 125.5 | 477 | 30 | 2.1 |
| | PT | ACH1 | 39.5 | 150 | 65 | 4.5 |
| | | ACK1 | 55.3 | 210 | 65 | 4.5 |
| | | ACK2 | 99.5 | 378 | 65 | 4.5 |

Flow rates shown are at maximum pump speed. For best tube life, select a large tube and run the pump slowly.

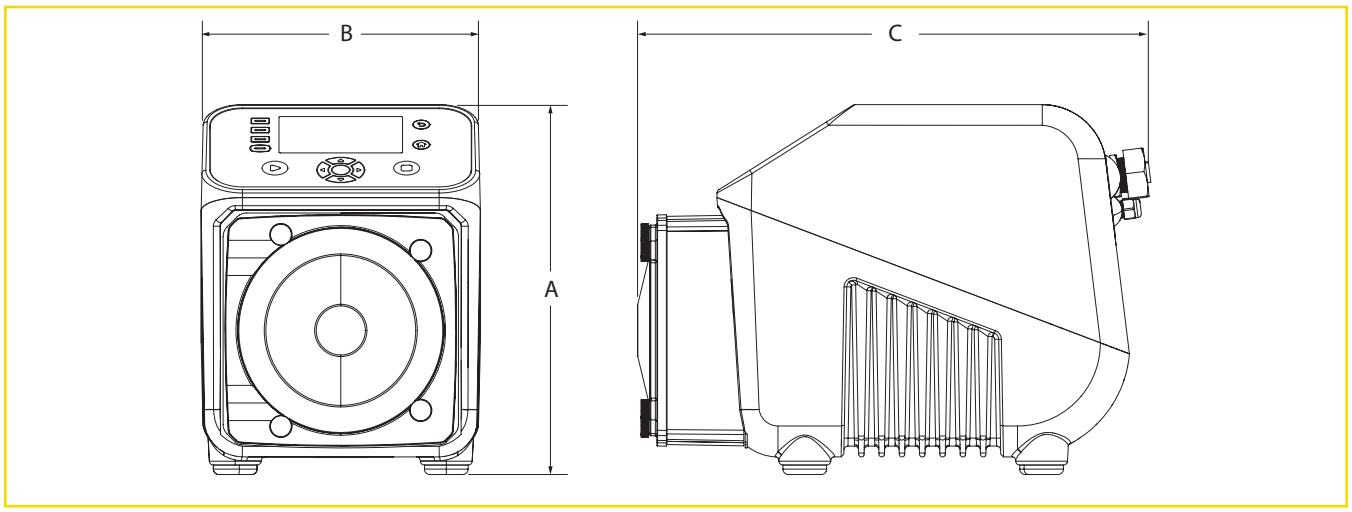
## TUBE MATERIAL INFORMATION

**LMI XL - Extended Life** tubing has excellent acid and alkali resistance, and is compatible with numerous oxidizing agents such as sodium hypochlorite. LMI XL is best for fatigue life and is the longest-lasting tube in compatible applications. Min/max temperature: 0-80°C (32-176°F).

**LMI CR - Chemical Resistant** is suited for handling strong acids and bases, and is virtually unaffected by most commercial sanitizers & cleaners. Min/max temperature: 0-54°C (32-130°F).

**LMI PT - Petro-Tough** can be used with fats and oils, lubricants, and some solvents. Min/max temperature: 0-54°C (32-130°F).

# KBL-Series
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## DIMENSIONS
*mm (Inch)*

| DIMENSION | KBL2 | KBL3 | KBL4 |
|---|---|---|---|
| A | 246 (10.4) | 246 (10.4) | 363 (14.3) |
| B | 206 (8.125) | 206 (8.125) | 308 (12.125) |
| C | 361 (14.2) | 361 (14.2) | 455 (17.9) |
| Weight kg (lb) | 35.6 (16.1) | 35.6 (16.1) | 72 (32.6) |

## *MATERIALS OF CONSTRUCTION*

| MATERIALS OF CONSTRUCTION | |
|---|---|
| ENCLOSURE | POWDER COATED ALUMINUM |
| PUMP HEAD | PBT THERMOPLASTIC |
| COVER | POLYCARBONATE |
| ROTOR | PBT THERMOPLASTIC |
| ROLLERS | NYLON |
| ROLLER BEARINGS | 316SS |
| ROLLER SHAFT | 316SS |
| MOTOR SHAFT | CHROME STEEL |
| COVER SCREWS | PLASTIC/316SS |
| TUBE CONNECTORS | PVDF |

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