Iwaki America is proud to offer our M Series pumps for your toughest chemical handling applications. All M Series pumps feature our non-contact, dry-run capable structure. When fitted with a carbon bearing, the M Series allows for periods of repeatable dry running with no damage to the pump. This proven non-contact principle also greatly improves the ability to withstand cavitation, poor suction conditions and running against a closed discharge valve. During adverse operating conditions, the M Series high strength magnets align to open contact points in the front or rear of the pump preventing damage to internal bearing surfaces and surrounding materials.

**M Series Dry-Run Capable Pumps**

Iwaki America offers two series of metering pumps for industrial applications. The IX series of pumps feature flow rates to 80 GPH with pressure to 250 PSI. This intuitive pump adjusts to process conditions via pulse or analog input. Its microprocessor control also allows for timed or batched metering. Multiple liquid end material choices along with motor voltage/service options make the LKN series ideal for the toughest chemical application.

**Metering Pumps**

Iwaki America offers two series of metering pumps for industrial applications. The IX series of pumps feature flow rates to 80 GPH with pressure to 250 PSI. This intuitive pump adjusts to process conditions via pulse or analog input. Its microprocessor control also allows for timed or batched metering. Multiple liquid end material choices along with motor voltage/service options make the LKN series ideal for the toughest chemical application.

**IX Series**

- **IX-B007**
  - Flow Rate: 2.0 GPH
  - Max Pressure: 250 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-B015**
  - Flow Rate: 4.0 GPH
  - Max Pressure: 150 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-B030**
  - Flow Rate: 7.9 GPH
  - Max Pressure: 87 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-B045**
  - Flow Rate: 11.9 GPH
  - Max Pressure: 58 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-C060**
  - Flow Rate: 15.6 GPH
  - Max Pressure: 145 PSI
  - Connection Material Options: Stainless Steel

- **IX-D150**
  - Flow Rate: 39.6 GPH
  - Max Pressure: 145 PSI
  - Connection Material Options: Stainless Steel

- **IX-D300**
  - Flow Rate: 79.2 GPH
  - Max Pressure: 73 PSI
  - Connection Material Options: Stainless Steel

**LKN Series**

- **LKN32**
  - Flow Rate: 9.5 GPM
  - Max Pressure: 150 PSI
  - Connection: PVC/PVDF SS SPM NPT

- **LKN45**
  - Flow Rate: 15.9 GPM
  - Max Pressure: 150 PSI
  - Connection: PVC/PVDF SS SPM NPT

- **LKN47**
  - Flow Rate: 31.8 GPM
  - Max Pressure: 120 PSI
  - Connection: PVC/PVDF SS SPM NPT

- **LKN55**
  - Flow Rate: 53.4 GPM
  - Max Pressure: 75 PSI
  - Connection: PVC/PVDF SS SPM NPT

- **LKN57**
  - Flow Rate: 114.3 GPM
  - Max Pressure: 45 PSI
  - Connection: PVC/PVDF SS SPM NPT

* Capacities listed are at Max. pressure. ** LKN47 with VS liquid end has 1" NPT connections

**Accessories**

- **Power Monitor**
  - The Emotron M20® monitors the input power to the pump. Capable of detecting both over-load and under-load conditions, the monitor offers protection from off-design conditions such as; dry running, dead head, end of curve, cavitation and excessive bearing wear.

- **Non-Metallic Baseplates**
  - Corrosion resistant Basetek® polymer concrete non-metallic bases are available for all M-Series products. Bases use stainless steel inserts as a standard and are available with optional grout holes, and drip pan. These non-metallic bases are designed to accommodate all of our close-coupled designs and complement the rugged quality and corrosion resistance of our M-Series products.

**Variable Frequency Drive**

The Baldor ACS Drive feature easy-to-use, plain language interfaces and control routines to support IX, Type C and Type T applications at 230V, 460V and 600V. The ACS Drive uses a traditional sine-wave control or sensorsless vector control to cover a wide variety of applications. At power-up, a start-up assistant quickly and easily guides the user through the first time setup of the drive.

**Iwaki Sanwa Metallic Sealless Pumps**

With flow rates to 243 GPM and TDH over 390 ft, this series of 316 Stainless Steel pumps provides outstanding performance in a small powerfull package. Capable of handling temperatures from negative -112°F to 536°F, the Iwaki Sanwa line of pumps is perfect for high and low temperature applications.

**IX Series**

- **IX-B007**
  - Flow Rate: 2.0 GPM
  - Max Pressure: 250 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-B015**
  - Flow Rate: 4.0 GPM
  - Max Pressure: 150 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-B030**
  - Flow Rate: 7.9 GPM
  - Max Pressure: 87 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-B045**
  - Flow Rate: 11.9 GPM
  - Max Pressure: 58 PSI
  - Connection Material Options: PVDF or Stainless Steel

- **IX-C060**
  - Flow Rate: 15.6 GPM
  - Max Pressure: 145 PSI
  - Connection Material Options: Stainless Steel

- **IX-D150**
  - Flow Rate: 39.6 GPM
  - Max Pressure: 145 PSI
  - Connection Material Options: Stainless Steel

- **IX-D300**
  - Flow Rate: 79.2 GPM
  - Max Pressure: 73 PSI
  - Connection Material Options: Stainless Steel
MDM Series

**ANSI Dimensional for ease of installation**

MDM Series is an ANSI dimensional pump with flow rates to 310 GPM and TDH to 348 feet. It is available in both ETFE Teflon® and virgin PFA for high purity applications. The MDM series options include an elevated temperature rating up to 302°F and solids handling up to 10%.

Robust ceramic/SiC shafts have front & rear support, eliminating shaft deflection and allowing full-curve operation. Robust ceramic/SiC shafts have front & rear support, eliminating shaft deflection and allowing full-curve operation.

It is available in both ETFE Teflon® and virgin PFA for high purity applications. The MDM Series is an ANSI dimensional pump with flow rates to 350 GPM and TDH to 348 feet. Male by male NPT connections and NEMA-C faced motors make the MX series incredibly easy to install and operate.

**MXM Series**

Cost Effective, Sub ANSI Design for Lower Flow Applications

MXM Series is a compact, cost efficient option where applications fall below ANSI dimensional pumps. The MXM is rated to 160 GPM and TDH up to 120 feet. Male by male NPT connections and NEMA-C faced motors make the MX series incredibly easy to install and operate.

**SMX-(F) Series**

Self-priming

Teflon® Teflon® self-priming compact pumps that are capable of lifting up to 13 feet of fluid in under 90 seconds. Available in 10 different flow configurations, this polypropylene or ETFE Teflon® pump produces flows over 130 GPM and TDH up to 120 feet.
M Series Performance

**MDM Series**

MDM Series is an ANSI dimensional pump with flow rates to 310 GPM and TDH to 348 feet. It is available in both ETFE Teflon® and virgin PFA for high purity applications. The MDM series options include an elevated temperature rating up to 302°F and solids handling up to 10%.

**MXM Series**

Cost Effective, Sub ANSI Design for Lower Flow Applications

MXM Series is a compact, cost efficient option where applications fall below ANSI dimensional pumps. The MXM is rated to 160 GPM and TDH up to 120 feet. Male by male NPT connections and NEMA-C-faced motors make the MX series incredibly easy to install and operate.

**SMX-(F) Series**

Self-priming

SMX-(F) Series is a self-priming compact pump that is capable of lifting up to 13 feet of fluid in under 90 seconds. Available in 10 different flow configurations, this polypropylene or ETFE Teflon® pump produces flows over 130 GPM and TDH up to 300 ft.

---

### M Series Performance

#### MXM Series

- **Suction x Discharge:**
  - 1½" x 1½"
  - 2" x 1½"
  - 2½" x 2"
  - 3 x 2"
- **Shaft Connections:**
  - 1½" x 1½"
  - 2" x 1½"
  - 2½" x 2"
- **Bearing:**
  - 1½" x 1½"
  - 2" x 1½"
  - 2½" x 2"
- **Inner magnet shaft deflection and allowing full-curve operation:**
  - Robust ceramic/SiC shafts have front & rear support, eliminating shaft sagging and allowing full-curve operation.

#### MDM Series

- **Suction x Discharge:**
  - 1½" x 1½"
  - 2" x 1½"
  - 2½" x 2"
  - 3 x 2"
- **Shaft Connections:**
  - 1½" x 1½"
  - 2" x 1½"
  - 2½" x 2"
- **Bearing:**
  - 1½" x 1½"
  - 2" x 1½"
  - 2½" x 2"
- **Inner magnet shaft deflection and allowing full-curve operation:**
  - Robust ceramic/SiC shafts have front & rear support, eliminating shaft sagging and allowing full-curve operation.

### MXM Series

- **Model:**
  - MXM-221
  - MXM-220
  - MXM-326
  - MXM-441
  - MXM-442
  - MXM-443
  - MXM-445
  - MXM-542
  - MXM-543
  - MXM-545
- **Impeller:**
  - Model 2158
  - Model 2156
  - 2½" x 2"
  - 3 x 2"
- **Casing:**
  - Front casing
  - Rear casing
- **Rear casing Impeller:**
  - Magnet capsule
  - Thrust liner

### MDM Series

- **Model:**
  - MDM-221
  - MDM-220
  - MDM-326
  - MDM-441
  - MDM-442
  - MDM-443
  - MDM-445
  - MDM-542
  - MDM-543
  - MDM-545
- **Impeller:**
  - Model 2158
  - Model 2156
  - 2½" x 2"
  - 3 x 2"
- **Casing:**
  - Front casing
  - Rear casing
- **Rear casing Impeller:**
  - Magnet capsule
  - Inner magnet

### SMX-(F) Series

- **Model:**
  - SMX221
  - SMX222
  - SMX223
  - SMX231
  - SMX232
  - SMX233
  - SMX241
  - SMX242
  - SMX243
  - SMX244

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### Diagrams

- **M Series Performance Diagram:**
  - MDM Series: ANSI dimensional for ease of installation
  - MXM Series: Cost Effective, Sub ANSI Design for Lower Flow Applications

- **SMX-(F) Series Diagram:**
  - Self-priming
  - Polypropylene or ETFE Teflon® pump produces flows over 130 GPM and TDH up to 300 ft.

---

### Footnotes

- ANSI dimensional
- Polypropylene
- Teflon®
MDM Series

ANSI Dimensional for ease of installation

MDM Series is ANSI dimensional pump with flow rates to 130 GPM and TDH to 142 feet. It is available in both ETFE Teflon® and virgin PFA for high purity applications. The MDM series options include an elevated temperature rating up to 302°F and solids handling up to 10%.

Robust ceramic/SiC shafts have front & rear support, eliminating shaft deflection and allowing full-curve operation

MXM Series

Cost Effective, Sub ANSI Design for Lower Flow Applications

MXM Series is a compact, cost efficient option where applications fall below ANSI dimensional pumps. The MXM is rated to 160 GPM and TDH to 126 feet. Male by male NPT connections and NEMA-C faced motors make the MX series incredibly easy to install and operate.

High efficiency volute design for improved pump efficiencies

2-piece impeller/magnet design lowers parts costs

SMX-(F) Series

Self-priming

Teflon®-filled soft-priming compact pump that is capable of lifting up to 13 feet of fluid in under 90 seconds. Available in 10 different flow configurations, this polypropylene or ETFE Teflon® pump produces flows over 130 GPM and TDH up to 120 feet.
Iwaki America is proud to offer our M Series pumps for your toughest chemical handling applications. All M Series pumps feature a non-contact, dry-run capable structure. When fitted with a carbon bearing, the M Series allows for periods of repeatable dry running with no damage to the pump. This proven non-contact principle also greatly improves the ability to withstand cavitation, poor suction conditions and running against a closed discharge valve. During adverse operating conditions, the M Series high strength magnets align to open contact points in the front or rear of the pump preventing damage to internal bearing surfaces and surrounding materials.

**M Series Dry-Run Capable Pumps**

Iwaki America offers two series of metering pumps for industrial applications. The IX series of pumps feature flow rates to 80 GPH with pressure to 250 PSI. The IX series use a pulse or analog input. An incorporated microprocessor controls the pulse drive, ensuring a proper flow rate. Multiple liquid and material choices along with motor voltage/service options make the IX series ideal for the toughest chemical application.

The LKN series of pumps feature flow rates to 114 GPH and pressure to 225 PSI. Multiple liquid and material choices along with motor voltage/service options make the LKN series ideal for the toughest chemical application.

**Accessories**

**Power Motor**

The Emax series motor offers a simple solution for ease of use.

**Non-Metallic Baseplates**

Corrosion-resistant Basetek® polymer concrete non-metallic bases are available for all M-Series products. Bases use stainless steel inserts as a standard and are available with optional grout holes, and drip pan. These non-metallic bases are designed to accommodate all of our close-coupled designs and complement the rugged quality and corrosion resistance of our M-Series products.

**Variable Frequency Drive**

The Baldor ACS Drives feature user-friendly on-screen display and control interfaces to support classic, Type 1 and Type 2 applications at 230V, 460V and 600V. The ACS Drives use a traditional sine-wave internal control or sensors that control torque to cover a wide variety of applications. At power-up, a start-up assistant quickly and easily guides the user through the first time setup of the drive.

**Standard Product Capabilities**

Iwaki America is proud to offer our M Series pumps for your toughest chemical handling applications. All M Series pumps feature a non-contact, dry-run capable structure. When fitted with a carbon bearing, the M Series allows for periods of repeatable dry running with no damage to the pump. This proven non-contact principle also greatly improves the ability to withstand cavitation, poor suction conditions and running against a closed discharge valve. During adverse operating conditions, the M Series high strength magnets align to open contact points in the front or rear of the pump preventing damage to internal bearing surfaces and surrounding materials.

**IX Series**

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<th>Model</th>
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**IX Series - Chemical Process Pumps**

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</tr>
</thead>
<tbody>
<tr>
<td>IX-B007</td>
<td>2.0</td>
<td>250</td>
<td>3/8&quot; OD Tube or 1/2&quot; NPT</td>
</tr>
<tr>
<td>IX-B015</td>
<td>4.0</td>
<td>150</td>
<td>3/8&quot; OD Tube or 1/2&quot; NPT</td>
</tr>
<tr>
<td>IX-B030</td>
<td>7.9</td>
<td>87</td>
<td>1/2&quot; OD Tube or 1/2&quot; NPT</td>
</tr>
<tr>
<td>IX-B045</td>
<td>11.9</td>
<td>58</td>
<td>1/2&quot; OD Tube or 1/2&quot; NPT</td>
</tr>
<tr>
<td>IX-C060</td>
<td>15.6</td>
<td>145</td>
<td>1/2&quot; NPT</td>
</tr>
<tr>
<td>IX-D150</td>
<td>39.6</td>
<td>58</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>IX-D300</td>
<td>79.2</td>
<td>73</td>
<td>1&quot; NPT</td>
</tr>
</tbody>
</table>

**IX Series - Chemical Process Pumps**

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (GPH)</th>
<th>Max Pressure (PSI)</th>
<th>Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX-B007</td>
<td>2.0</td>
<td>250</td>
<td>3/8&quot; OD Tube or 1/2&quot; NPT</td>
</tr>
<tr>
<td>IX-B015</td>
<td>4.0</td>
<td>150</td>
<td>3/8&quot; OD Tube or 1/2&quot; NPT</td>
</tr>
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<td>IX-B030</td>
<td>7.9</td>
<td>87</td>
<td>1/2&quot; OD Tube or 1/2&quot; NPT</td>
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<tr>
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</tr>
<tr>
<td>IX-D150</td>
<td>39.6</td>
<td>58</td>
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</tr>
<tr>
<td>IX-D300</td>
<td>79.2</td>
<td>73</td>
<td>1&quot; NPT</td>
</tr>
</tbody>
</table>
Iwaki America is proud to offer our M Series pumps for your toughest chemical handling applications. All M Series pumps feature a non-contact, dry-run capable structure. When fitted with a carbon bearing, the M Series allows for periods of repeatable dry running with no damage to the pump. This proven non-contact principle also greatly improves the ability to withstand cavitation, poor suction conditions and running against a closed discharge valve. During adverse operating conditions, the M Series high strength magnets align to open contact points in the front or rear of the pump preventing damage to internal bearing surfaces and surrounding materials.

M Series Dry-Run Capable Pumps

Iwaki America offers two series of metering pumps for industrial applications. The IX series of pumps feature flow rates to 80 GPH with pressures to 250 PSI. This intuitive pump adjusts to process conditions via pulse or analog input. Its microprocessor control also allows for timed or batched metering. Multiple liquid end material choices along with motor voltage/service options make the LKN series ideal for the toughest chemical application.

IX Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (GPH)</th>
<th>Max Pressure (PSI)</th>
<th>Connection Material Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>IX-B007</td>
<td>2.0</td>
<td>250</td>
<td>PVC/PVDF, Stainless Steel</td>
</tr>
<tr>
<td>IX-B015</td>
<td>4.0</td>
<td>150</td>
<td>PVC/PVDF, Stainless Steel</td>
</tr>
<tr>
<td>IX-B030</td>
<td>7.9</td>
<td>87</td>
<td>PVC/PVDF, Stainless Steel</td>
</tr>
<tr>
<td>IX-B045</td>
<td>11.9</td>
<td>58</td>
<td>PVC/PVDF, Stainless Steel</td>
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<td>IX-C060</td>
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</tr>
<tr>
<td>IX-D300</td>
<td>79.2</td>
<td>73</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

LKN Series

<table>
<thead>
<tr>
<th>Model</th>
<th>Capacity (GPH)</th>
<th>Max Pressure (PSI)</th>
<th>Stroke Speed</th>
<th>Connection Material Options</th>
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<td>LKN47</td>
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<td>LKN57</td>
<td>114.3</td>
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<td>116</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

The Baldor ACS Drives feature easy-to-use, plain language interfaces and control routines to support UL Type 1 and Type 12 applications at 230V, 460V and 600V. The ACS Drive uses a traditional sine wave control method to a sensitive vector control to cover a wide variety of applications. At power-up, a start-up assistant quickly and easily guides the user through the first time setup of the drive.

Variable Frequency Drive

Iwaki America offers two series of metering pumps for industrial applications. The IX series of pumps feature flow rates to 80 GPH with pressures to 250 PSI. This intuitive pump adjusts to process conditions via pulse or analog input. Its microprocessor control also allows for timed or batched metering. Multiple liquid end material choices along with motor voltage/service options make the LKN series ideal for the toughest chemical application.