SRL

Designed for the Most Severe and Abrasive Duties

- Capacities to 20,000 GPM (4,542 m³/h)
- Heads to 164 feet (50 m)
- Temperatures to 250° F (121° C)
- Pressures to 500 psig (3,447 kPa)

Design Features

Large-Diameter Impeller
- Develops higher heads at lower operating speeds
- Open and closed designs to suit most applications
- Variety of elastomers and metal alloys available
- Shearpeller® for stringy and froth-laden slurries

Field-Replaceable Liners
- Precision molded and bonded to metal skeleton
- FRP volute support to resist collapse sizes > 8 inches (200 mm)
- Extra-thick rubber design for severe duties

Heavy-Duty Mechanical Design
- Large-diameter shaft for low deflection and longer life
- Oil-lubricated cartridge bearing assembly
- Heavy-duty bearings for reliability and long life

Gland Seal Options
- Standard- and low-dilution seal water or mechanical seal
- Replaceable XH-800 shaft sleeve for maximum life

Applications

- **Primary Metals**: SAG/ball mill discharge, cyclone feed and tailings
- **Mineral Processing**: Slurry transfer, float cells and thickener underflow
- **Non-Metallic Mining**: Clay slurries, phosphate, soda ash and potash
- **Sand and Gravel**: Sand and aggregate slurries, tailings
- **Power Utility**: Absorber recycle, gas cooling, filter feed, flue gas desulfurization and gypsum tailings
- **Chemical**: Acid transfer, leach feed
- **Pulp and Paper**: Lime slurries and fly ash
- **General Industry**: Foundry sand, plant waste and ash slurries

The Goulds Model SRL is the original rubber-lined slurry pump. It is the result of nearly a century of proven experience in the design, manufacture and field operation of slurry pumps. The SRL is built to stand up to the toughest services, while providing maximum reliability and extreme ease of maintenance. Available in a wide variety of natural and synthetic elastomers, the SRL, with its heavy duty design, extra thick liners and multiple impeller options, provides you with the right pump for your application along with years of dependable service even under the most severe operating conditions.
Bearing Assembly

- Cartridge design
- Precision machined cast iron bearing housing
- Large diameter AISI 1045 steel shaft
- Heavy-duty anti-friction bearings
- Minimum 5-year bearing L10 life
- Oil lubrication
- Grease packed labyrinth and lip seals
- External oil level sight gauges on both sides

Shaft Sleeve

- Hard Ni-Cr-coated XH-800 alloy sleeve
- 64 Rockwell C coating will not chip or crack
- Ground 6-8 RMS surface finish
- 316 SS base alloy for corrosion resistance
- Special alloys available

Suction Wearplate Liner

- Standard on SRL-XT models and SRL-C pumps with discharges 6 inches (150 mm) and larger
- Quick replacement of wear parts
- Reduced downtime and replacement cost
- Choice of elastomers and polyurethanes
- Optional CRM wearplate available

Ceramic-Rubber Media (CRM) Liners

The primary ball/SAG mill discharge is one of the most severe duties in mineral processing. The suction wearplate is subjected to rapid wear due to high solids concentration and the coarse nature of the slurry. Goulds developed a proprietary process to locate and mold ceramic rods into the rubber liner for the optimum combination of hardness and resilience for extended wear life. Field trials confirmed CRM liner life of two to four times that of natural rubber alone. Because the CRM liner retains its shape longer, it also extends the life of the other wear parts for an even lower life cycle cost.
Rubber
The Goulds Model SRL utilizes a soft natural rubber blend that offers the best combination of resilience and tear resistance for maximum wear life in abrasive and corrosive slurries. Goulds offers a wide variety of natural and synthetic rubbers as well as polymers in a range of hardnesses to suit almost any slurry application.

FRP and Rubber Composite Hybrid Liners
All SRL model liners are molded to a metal skeleton and bolted to the casing for a secure fit. However, on larger pumps, the amount of unsupported rubber in the volute and discharge neck area can make them prone to collapse under adverse operating conditions. It also can be difficult to handle and install. Goulds molds a fiberglass (FRP) shell to the casing liners for added support on pump sizes 12×10–25 SRL-C and larger. This unique hybrid liner design is collapse-resistant with improved fit for easy handling and assembly.

Elastomer Selections and Application Guide for SRL Pumps
Please use the following chart as a general guide only. Refer to factory for specific elastomer recommendations.

<table>
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<th>Elastomer Type</th>
<th>Hardness</th>
<th>Temperature</th>
<th>pH</th>
<th>Resistance to Abrasion</th>
<th>Resistance to Moderate Chemicals</th>
<th>Resistance to Hydrocarbons &amp; Oils</th>
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</table>

(1) Poor for oxidizing chemicals and strong acids
(2) Fine particles only (150 mesh or less)
Goulds SRL

- Sizes: 1.5–6 inches (40–150 mm)
- Flows to: 1,500 GPM (341 m³/h)
- Heads to: 135 feet (41 m)
- Solids to: 1/8 inch (3.2 mm)
- Pressures to: 232 psig (1,600 kPa)

Design Features and Benefits

- Precision-molded, thick bolt-in liners*
  Long life and secure assembly in casing

- Large-diameter semi-open impeller
  Low speeds and extended wear life

- Axially adjustable bearing assembly
  Maintains peak operating efficiency and life

- Short, rigid shaft and heavy-duty bearings
  Low deflections and reliable service

- Packed gland option or mechanical seal
  Standard, low or no dilution arrangements

- Precision-machined cast iron frame
  Sturdy, vibration-free support

- Five discharge positions available
  Suitable for most piping arrangements

*Note: Except for 1.5” SRL

SRL Heavy-Duty Slurry Pumps

The SRL series rubber-lined horizontal slurry pumps are used in a variety of applications in mineral processing and general industry. The open impeller is designed to handle most types of slurry in abrasive and corrosive applications, including some containing air or froth.

It is typically used for slurries containing solids up to a nominal 1/8 inch (3.2 mm) in diameter. A wide range of natural and synthetic elastomers is available to handle slurries containing a variety of chemicals.

Hydraulic Coverage
The SLR-C series rubber-lined horizontal slurry pumps utilize proven hydraulics to deliver high efficiencies for pumping abrasive and / or corrosive slurries. The closed impeller is designed to handle very abrasive slurries with high concentrations of solids in mining, mineral processing and general industry.

The Goulds SRL-C pump is typically used for slurries containing solids up to ¼ inch (6.4 mm) in diameter and heavy concentrations of solids. A choice of natural and synthetic elastomers is available to suit most slurry applications.

- Sizes: 3–20 inches (75 mm–500 mm)
- Flows to: 20,000 GPM (4,542 m³/h)
- Heads to: 164 feet (50 m)
- Solids to: ¼ inch (6.4 mm)
- Pressures to: 500 psig (3,447 kPa)
DESIGN FEATURES AND BENEFITS:

High-efficiency design
Very low power costs

Proven hydraulics for slurry service
Extended parts wear life

Thick bolt-in liners
Positive assembly in casing for extended life

Large liners reinforced with a fiberglass shell
Resist liner collapse under adverse conditions

Large-diameter closed impeller
Lower speeds and extended wear life

Replaceable suction wearplate available on 6 inch (150 mm) and larger pumps
Provides reduced downtime and lower replacement cost

Axially adjustable bearing assembly
Maintains peak operating efficiency and life

Short, rigid shaft and heavy-duty bearings
Low deflections and reliable service

Packed gland option or mechanical seal
Standard, low or no dilution arrangements

Precision-machined cast iron frame
Sturdy, vibration-free support

Five discharge positions available
Suitable for most piping arrangements

Hydraulic Coverage
SRL-XT

Designed With Extra-Thick Rubber for the Most Severe and Abrasive Applications

- Sizes: 6–12 inches (150–300 mm)
- Flows to: 10,000 GPM (2,270 m³/h)
- Heads to: 140 feet (42 m)
- Solids to: ½ inch (13 mm)
- Pressures to: 250 psig (1,725 kPa)

Services

- Sag Mill
- Rod & Ball Mill
- Primary and Secondary Cyclone
- Thickener Feed
- Flotation Feed
- Tailings

The SRL-XT has extra-thick rubber components that are up to three times thicker than standard rubber-lined pumps. Its heavy-duty design makes it ideal for the toughest applications, especially where coarser slurries are involved.

Design Features and Benefits

Rubber up to three times the conventional thickness
- Handles coarse material with improved abrasion resistance, longer wear life and less downtime

Precision molding of rubber-to-metal skeletons, bolted-in liners
- Greater dimensional accuracy; fast, easy replacement; reduced downtime

Tongue-and-groove fit between casing halves and liners
- Positive locking of liner into casing to prevent collapse

Front removal of suction wearplate
- Allows for inspection and ease of replacement without disturbing discharge
- Allows for rotation of suction wearplate to maximize efficiency and wear life

Large ACME impeller threads
- Allows for quick, easy removal of impeller, less downtime

Impeller release collar
- Relieves pressure on impeller allowing easy removal, less downtime

Heavy-duty oil lubricated bearing cartridge with labyrinth style seals
- Maximum bearing and shaft life, less downtime
- External impeller adjustment maintains peak operating efficiency and maximizes life

Packed gland or mechanical seal options
- Standard full flush, low or no dilution available

Free-standing pump with rugged cast iron pedestal
- Allows mounting of pump directly on concrete foundations
- Won't tip
- Allows for mounting of large motors overhead, saves space
Sectional View

Extra rubber thickness for severe service
Rubber molded to metal skeleton
ACME threads
Removable suction wear plate
Liners positively locked into casing

Packed gland
Impeller release collar
Bearing cartridge assembly
Cast iron pedestal

Hydraulic Coverage

FLOW – USGPM

FLOW – M³/h

TOTAL HEAD – FEET

TOTAL HEAD – METERS

6x6-21 8x8-25 10x10-28 14x12-36
The SRL-S Shearpeller® provides the solution for applications with entrained air, froth and stringy solids.

The Shearpeller’s innovative patented design successfully handles large stringy solids. Also, due to its unique tapered radial vane design, the SRL-S can handle a froth factor of up to 2.5 without oversizing the pump, providing significant cost savings. This design is also very effective in handling entrained air without air binding. Available on the 2×2–10 SRL and all sizes of the SRL-C up through the 16×14, the Shearpeller is completely interchangeable with the standard models.

Hydraulic Coverage

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>Bearing Frame</th>
<th>Cartridge Brg Frame</th>
<th>Shearpeller Suction Wearplate</th>
<th>Hybrid Liners</th>
<th>Maximum Working Pressure - PSI (kPa)</th>
<th>Weight Lbs. (Kg.)</th>
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### Dimensions

#### Models SRL and SRL-C

#### BARE PUMP DIMENSIONS

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<th>Size &amp; Type</th>
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<th>Disch.</th>
<th>No.</th>
<th>Frame</th>
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<th>B</th>
<th>CP</th>
<th>D</th>
<th>DD</th>
<th>O</th>
<th>U</th>
<th>V</th>
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**NOTES:**
1. All dimensions are in inches.
2. Discharge positions a, b, c, d and e are standard on all pump sizes.
3. Not for construction, installation or application purposes.
4. SRL-C dimensions are the same as the equivalent SRL-C pump sizes.

#### Model SRL-XT

#### BARE PUMP DIMENSIONS

<table>
<thead>
<tr>
<th>Size &amp; Type</th>
<th>Suct.</th>
<th>Disch.</th>
<th>Frame</th>
<th>A</th>
<th>B</th>
<th>CP</th>
<th>D</th>
<th>DD</th>
<th>O</th>
<th>U</th>
<th>V</th>
<th>X</th>
<th>Y</th>
<th>Z</th>
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</thead>
<tbody>
<tr>
<td>6 X 6 - 21 SRL-XT</td>
<td>6.0</td>
<td>5.2</td>
<td>18.6</td>
<td>29.3</td>
<td>63.2</td>
<td>20.5</td>
<td>17.6</td>
<td>38.5</td>
<td>3.3</td>
<td>11.3</td>
<td>18.0</td>
<td>8.9</td>
<td>15.0</td>
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<td>8 X 8 - 25 SRL-XT</td>
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<td>8.0</td>
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<td>34.0</td>
<td>68.7</td>
<td>22.0</td>
<td>25.1</td>
<td>46.7</td>
<td>4.0</td>
<td>9.6</td>
<td>24.7</td>
<td>11.2</td>
<td>14.0</td>
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<tr>
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<td>10.25</td>
<td>41.0</td>
<td>42.0</td>
<td>74.7</td>
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<td>57.2</td>
<td>4.75</td>
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<td>12.2</td>
<td>17.1</td>
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<td>12.0</td>
<td>49.5</td>
<td>39.5</td>
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<td>13.2</td>
<td>22.1</td>
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</tbody>
</table>

**NOTES:**
1. All dimensions are in inches.
2. Discharge positions a, b, c, d and e are standard on all pump sizes.
3. Not for construction, installation or application purposes.
Reliability has no quitting time.

Building on over 160 years of Goulds Pumps experience, PRO Services provides an array of services focused on reducing equipment total cost of ownership (TCO) and increasing plant output, including predictive monitoring, maintenance contracts, field service, engineered upgrades, inventory management, and overhauls for pumps and other rotating equipment.