Universal® 1 Series

ROTARY POSITIVE DISPLACEMENT PUMPS

Waukesha Cherry-Burrell®
SPX FLOW, Inc. (NYSE:FLOW) is a leading manufacturer of innovative flow technologies, many of which help define the industry standard in the market segments they serve. From its headquarters in Charlotte, North Carolina, it operates a sales and support network, centers of manufacturing excellence, and advanced engineering facilities, throughout the world. Its cutting-edge flow components and process equipment portfolio includes a wide range of pumps, valves, heat exchangers, mixers, homogenizers, separators, filters, UHT, and drying technology that meet many application needs. Its expert engineering capability also makes it a premium supplier of customized solutions and complete, turn-key packages to meet the most exacting of installation demands.

Incorporating many leading brands, SPX FLOW has a long history of serving the food and beverage, power and energy, and industrial market sectors. Its designs and engineered solutions help customers drive efficiency and productivity, increase quality and reliability, and meet the latest regulatory demands. In-depth understanding of applications and processes, state-of-the-art Innovation Centers, and advanced pilot/testing technology further assist in optimizing processes and reducing timescales to reliably meet production targets.

To learn more about SPX FLOW capabilities, its latest technology innovations and complete service offerings, please visit www.spxfly.com.

For more than half a century, Waukesha Cherry-Burrell® has been a leader in the design, manufacturing and application of external circumferential piston (ECP) style, rotary positive displacement pumps. Waukesha Cherry-Burrell PD pumps are in service around the world in food, dairy, canning, bakery, beverage and pharmaceutical processing, as well as difficult chemical and industrial applications.

Users of Waukesha Cherry-Burrell PD pumps benefit from decades of continuing product improvement. Steady advances in design, metallurgy and fabrication techniques have yielded progressively higher levels of performance and service life.

Setting the standard of performance for the sanitary industry for over 50 years.

PRODUCT FEATURES AND BENEFITS

Sanitation features
- 316L stainless steel body, cover, and shaft
- Easy disassembly for COP cleaning
- Elastomers that comply with FDA requirements
- Aseptic models available
- Meets 3-A sanitary standards

Long-life features
- Up to 200 psi (13.8 bar) pressure capability*
- No bearings in product zone
- Heavy duty bearing frame with large diameter shafts
- Grease lubed bearings for positive lubrication of all bearing over entire speed, temperature and pressure range
- Non-galling Waukesha “88” alloy rotors standard; permits running at tighter clearances and pumping a wide range of viscosities
- Remanufacturing and Inspect and Advise programs to extend life and reduce costs

Available options
*High strength 17-4 PH shafts and hex cover nuts for higher pressure applications
- Stainless steel gear case
- Stainless steel bearing retainers
- Bearing isolators protect bearings from contamination
- Body retaining screws
- Steel-It paint
- Single wing rotors for reduced damage of particulates.
- Jacketed or vented covers
- Rectangular flange inlet for high viscosity products
- Tru-Fit® close coupled pump design
Installation Features

• Bidirectional flow. Rotors, locked with double jam nuts, rotate securely in either direction.
• No flow direction/shaft position specifications
• Versatile 3-Way mounting of gear case, including vertical alignment of ports
• Upper or lower shaft position
• Easy to install or convert single o-ring to mechanical seals
• Interchangeable installation dimensions with Universal 2 and Universal Lobe PD pumps

Typical product applications

**Bakery**
- Batters
- Flavorings
- Frostings
- Fruit Fillings
- Fats & Oils
- Sweeteners
- Yeast Slurry

**Beverage**
- Beer, Wort, Yeast
- Soft Drinks
- Juice
- Fruit Concentrates
- Fruit Drinks
- Wine
- High Fructose Corn Syrups (HFCS)

**Canning**
- Baby Foods, Soups, Stews
- Tomato Paste/Sauces
- Fruit Puree
- Vegetables, Diced, Slurries
- Puddings, Jams, Jellies
- Salad Dressings, Mayonnaise

**Confectionery**
- Syrups
- Cream Fillings
- Chocolate

**Cosmetics**
- Face Creams & Lotions
- Hair Styling Gels & Liquids
- Essential Oils
- Dyes & Alcohols
- Shampoos

**Dairy**
- Cream, Milk, Butter
- Cheese Curd & Whey
- Cottage Cheese
- Yogurt

**Meat Packing**
- Meat-Emulsions
- Ground Meats
- Pet Foods
- Ruffle & Caul Fat
- Mechanically Deboned Meat (MDM)

**Pharmaceutical/Health Care**
- Pill Pastes
- Syrups
- Extracts
- Emulsions
- Slurries
- Tooth Paste
Theory of Operation

In the Waukesha Cherry-Burrell design, arc-shaped "pistons" (rotor wings) travel in annular-shaped cylinders machined in the pump body; the resulting long sealing path reduces slippage and produces a smooth flow of product without destructive pulses or pressure peaks and without valves or complex parts.

For Low Viscosity Fluids
Rotors, made of Waukesha "88" alloy, can be run with close clearance to the 316L stainless steel fluid head, without galling or seizing should inadvertent pressure surges cause contact. The close clearances combined with the rotor geometry, which gives a long sealing path between the pump inlet and outlet, means low slip operation. As a result, you achieve: high volumetric efficiency, good priming ability, metering capability and good flow control.

For High Viscosity Fluids
The large fluid cavities of the rotors, plus the large easy entry anti-cavitation ports, allow efficient pumping of high viscosity fluids, slurries or even liquids with large chunks or particles.

For Non-Lubricating and Abrasive Fluids
The unique Waukesha Cherry-Burrell design has no bearings in the fluid being pumped, no sliding or rolling contact and no rotor-to-rotor contact. This produces EXCELLENT SERVICE LIFE even under severe operating conditions.
### Universal 1 Models

<table>
<thead>
<tr>
<th>Model</th>
<th>Displacement per Revolution</th>
<th>Nominal Capacity* To</th>
<th>Inlet/Outlet</th>
<th>Optional Inlet/Outlet</th>
<th>Pressure Range Up To**</th>
<th>Maximum RPM</th>
<th>Temp Range**</th>
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</table>
| 006-U1 | .0082 gal. (.031 liter) | 6 GPM (1.3 m³/hr.) | 1" | 1 1/2" | 200 PSI (13.8 bar) | 800 | Std. Rotors: -40°F (-40°C) to 180°F (82°F)  
Hot Clearance Rotors: -40°F (-40°C) to 300°F (149°C) |
| 015-U1 | .0142 gal. (.054 liter) | 9 GPM (2.0 m³/hr.) | 1 1/2" | -- | 200 PSI (13.8 bar) | 700 |  |
| 018-U1 | .029 gal. (.110 liter) | 17 GPM (3.8 m³/hr.) | 1 1/2" | 2" | 200 PSI (13.8 bar) | 600 |  |
| 030-U1 | .060 gal. (.227 liter) | 36 GPM (8.2 m³/hr.) | 1 1/2" | 2" | 200 PSI (13.8 bar) | 600 |  |
| 040-U1 | .076 gal. (.288 liter) | 45 GPM (10.2 m³/hr.) | 2" | 2 1/2" | 150 PSI (10.3 bar) | 600 |  |
| 060-U1 | .153 gal. (.579 liter) | 90 GPM (20.4 m³/hr.) | 2 1/2" | 3" | 200 PSI (13.8 bar) | 600 |  |
| 130-U1 | .254 gal. (.961 liter) | 150 GPM (34.1 m³/hr.) | 3" | -- | 200 PSI (13.8 bar) | 600 |  |
| 220-U1 | .522 gal. (1.976 liter) | 310 GPM (70.4 m³/hr.) | 4" | -- | 200 PSI (13.8 bar) | 600 |  |
| 320-U1 | .754 gal. (2.854 liter) | 450 GPM (102 m³/hr.) | 6" | -- | 200 PSI (13.8 bar) | 600 |  |

### Rectangular Flange Models

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<th>Inlet W x L Inches</th>
<th>Outlet</th>
<th>Pressure Range Up To**</th>
<th>Maximum RPM</th>
<th>Temp Range**</th>
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</table>
| 014-U1 | .0142 gal. (.054 liter) | 5 GPM (1.1 m³/hr.) | 1.5 x 4.75 | 1 1/2" | 200 PSI (13.8 bar) | 400 | Std. Rotors: -40°F (-40°C) to 180°F (82°F)  
Hot Clearance Rotors: -40°F (-40°C) to 300°F (149°C) |
| 024-U1 | .029 gal. (.110 liter) | 11 gpm (2.5 m³/hr.) | 1.31 x 4.93 | 1 1/2" (2") | 200 PSI (13.8 bar) | 400 |  |
| 034-U1 | .060 gal. (.227 liter) | 24 gpm (5.4 m³/hr.) | 1.75 x 6.75 | 2" | 200 PSI (13.8 bar) | 400 |  |
| 064-U1 | .153 gal. (.579 liter) | 60 gpm (13.6 m³/hr.) | 2.24 x 8.82 | 2 1/2" (3") | 200 PSI (13.8 bar) | 400 |  |
| 134-U1 | .254 gal. (.961 liter) | 100 gpm (22.7 m³/hr.) | 2.97 x 9.25 | 3" | 150 psi (10.3 bar) | 400 |  |
| 224-U1 | .522 gal. (1.976 liter) | 260 gpm (59.4 m³/hr.) | 3.87 x 11 | 4" | 200 PSI (13.8 bar) | 400 |  |
| 324-U1 | .754 gal. (2.854 liter) | 300 gpm (68.1 m³/hr.) | 5 x 17.38 | 6" | 200 PSI (13.8 bar) | 400 |  |

### Aseptic Models

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<th>Nominal Capacity* To</th>
<th>Inlet Outlet</th>
<th>Pressure Range Up To**</th>
<th>Maximum RPM</th>
<th>Temp Range**</th>
</tr>
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</table>
| 033 | .051 gal. (.193 liter) | 30 GPM (6.8 m³/hr.) | 1 1/2" | 225 PSI (15.5 bar) | 600 | Std. Rotors: -40°F (-40°C) to 180°F (82°F)  
Hot Clearance Rotors: -40°F (-40°C) to 300°F (149°C) |
| 133 | .205 gal. (.776 liter) | 120 gpm (27.3 m³/hr.) | 3" | 225 PSI (15.5 bar) | 600 |  |
| 223 | .440 gal. (1.666 liter) | 260 gpm (59.1 m³/hr.) | 4" | 225 PSI (15.5 bar) | 600 |  |
| 323 | .616 gal. (2.332 liter) | 360 gpm (81.8 m³/hr.) | 6" | 225 PSI (15.5 bar) | 600 |  |

*For capacities above 450 to 935 GPM (102 to 212 m³/hr), see bulletin FH-1725 on 420/520 UHC (ECP Rotors) and FH-1733 on 420/520 UHCL (Lobe Rotors).**Contact application engineering for higher pressure or higher temperature applications. Note: Universal 2 (Bulletin FH-1723) and Universal Lobe (Bulletin FH-1733) models are available for CIP installations, applications up to 500 psi (34 bar), and extended run services not needing frequent tear down for cleaning.
Time-Tested Waukesha Cherry-Burrell® Rotary Pump.

The Waukesha Cherry-Burrell Universal 1 Series gives you...

High pressure capability; up to 200 psi/13.8 bar*.

Long service life: High capacity components run long, reducing service stops.

The right seal for every application, plus easy interchangeability when needed.

Metal rotor: Waukesha "88" non-galling alloy, for close running clearance.


*For higher pressures, consult the factory.
Seal Options

**Double Concentric Mechanical Seal†**
Used with flushing fluid to cool, lubricate, flush away residue. Best arrangement for severe service.

**Single Mechanical Seal†**
Longer life, wider pressure-temperature, and speed range than O-ring seal. Alternate materials available for abrasive service.

**“O” Ring Seal**
Waukesha Cherry Burrell’s traditional general purpose seal. Low cost and easy to service.

**Double “O” Ring Seal**
The double, flushed version of the “O” ring seal. Used with flushing fluid to cool, lubricate, flush away residue.

**Elastomer choices for “O” rings:**
- Buna-N
- Fluoroelastomer (FKM)
- EPDM
- Silicone
- Perfluoroelastomer (FFKM)
- PTFE Encapsulated

*Not available for model 320
† Mechanical seal material options:
- Carbon
- Ceramic
- Silicon Carbide
- Tungsten Carbide
Standard & Options

**Body**

- Bevel Seat, I-Line, Q-Line; European DIN, SMS or RJT
- Male NPT, 150 lb. & 300 lb. Flanges. (150 lb. standard on Model 320)
- Rectangular Flange Inlet or Aseptic ports
- Extended ports
- Optional port sizes on 6, 18, 30 and 60 Models

**S-Line standard**

*Optional:*

- Flush taps for future double seals
- Body retaining screws

**Covers**

- Vent or drain connections
- Aseptic, jacketed or vented
- Hex cover nuts

**Ports**

- Bevel Seat, I-Line, Q-Line; European DIN, SMS or RJT
- Male NPT, 150 lb. & 300 lb. Flanges. (150 lb. standard on Model 320)
- Rectangular Flange Inlet or Aseptic ports
- Extended ports
- Optional port sizes on 6, 18, 30 and 60 Models

**316L SS plain cover with 3-Wing cover nuts standard**

*Optional:*

- Vent or drain connections
- Aseptic, jacketed or vented
- Hex cover nuts

**Rotors**

- Hot clearance to 300° F (149° C)
- Clearance above 300° F (149° C) on application
- Special & front face clearances and slotted rotor hub for special applications
- Single wing for 30, 60, 130 and 220 models for minimal particulate damage

**316L SS standard**

*Optional:*

- Flush taps for future double seals
- Body retaining screws

**316L SS plain cover with 3-Wing cover nuts standard**

*Optional:*

- Vent or drain connections
- Aseptic, jacketed or vented
- Hex cover nuts

**Alloy 88 Twin Wing standard. Standard clearance for up to**

180° F (82° C)

*Optional:*

- Hot clearance to 300° F (149° C)
- Clearance above 300° F (149° C) on application
- Special & front face clearances and slotted rotor hub for special applications
- Single wing for 30, 60, 130 and 220 models for minimal particulate damage

**O-Rings**

- Buna-N Standard
  - Optional: **Fluoroelastomer (FKM), EPDM, Silicone, Perfluoroelastomer (FFKM), FEP Encapsulates**

- Single Buna-N O-Rings with Zirconia sleeve is standard
  - Optional:
    - 316L SS sleeve
    - Double O-Ring Seal with Flush Connection
    - Single Mechanical Seal with Carbon (One Piece) vs. Ceramic Seal Faces
    - Double Mechanical Seal with outer Carbon Seal Face & Flush Connections
    - Chrome Oxide, Silicon Carbide, & Tungsten Carbide Seal Faces
    - Two piece carbon inner seal

**Seals**

- Twin Wing
- Single Wing
Cast iron powder coated, 316L SS shafts, top shaft position is Standard.

Options:
- Stainless Steel gearcase
- Steel-It paint
- 17-4 PH shafts
- Lower shaft position
- Bearing Isolators
- Stainless Steel bearing retainers
- Pedestal shims for side mounted pumps. Left hand shaft position standard
- Right hand shaft position on side mounted gearcase

Optional Side Mount Gear Case for vertical fluid entry

Flat plate, epoxy painted, with adjustable feet, SS coupling guard, and Lovejoy or Woods coupling standard.

Options:
- 304 SS unpolished plate base with adjustable feet
- Portable base with rubber wheels
- SS tubular bases

WCB ISR Integral Speed Reducer Sizes 49, 79 and 239.
Direct connected gear motors.
Mechanical and Electronic Variable Speed Drives.
Hydraulic Motor Drives.

Close coupled Tru-Fit® pump mounted on Epoxy-painted open base.

Features:
- No shaft alignment necessary. No coupling guard required
- Special base design enhances cleanability
- Reduces overall length of complete unit by an average of 20-25%
- Average of 20-25 gear ratios available per horsepower
- Separate oil sump for gear reducer and timing gears

Options:
- 304 SS unpolished plate base
- 304 SS polished plate base
- NEMA or IEC frames available. Right angle reducer also available for additional space savings
- 1/2 through 60 horsepower drive options available
- Horizontal or vertical porting
### DIMENSIONAL DATA

**NOTE:** Dimension “2X” applies for Bevel Seat, “S-Clamp”, “Q-Clamp”, 15I and 14I fittings (except 320U1).

**NOTE:** CP4 is the maximum dimension for all vented and jacketed cover options.

*Contact Application Engineering for Universal 1 Series Aseptic Models.*

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<th>I</th>
<th>O</th>
<th>PORT Size</th>
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**NOTE:** Dimension “2X” applies for Bevel Seat, “S-Clamp”, “Q-Clamp”, 15I and 14I fittings (except 320U1).

**NOTE:** CP4 is the maximum dimension for all vented and jacketed cover options.

*Contact Application Engineering for Universal 1 Series Aseptic Models.*

### SPX CONNECT APP

Scan QR codes to quickly retrieve manuals, lookup support contact information and request quotations for service or parts.

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### UNIVERSAL 1 MODELS - RECTANGULAR FLANGE

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<th>Size Model</th>
<th>AO*</th>
<th>CP</th>
<th>CP4</th>
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<th>PORT Size</th>
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*NOTE: Dimension AO is with tallest pedestal. Optional heights are available.

**NOTE: CP4 is the maximum dimension for all vented and jacketed cover options.

### UNIVERSAL 1 MODELS - TRU-FIT®

<table>
<thead>
<tr>
<th>Size Model</th>
<th>A</th>
<th>AO</th>
<th>H</th>
<th>M</th>
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</table>
When it is time to repair ...

SPX FLOW offers the following options – you pick the one that meets your needs.

**Factory Remanufacturing Program**
- No need to return your pump until you receive your new replacement pump.
- Substantial savings over new pump.
- All remanufactured pumps must pass a 25 point inspection process and undergo performance testing.
- Only OEM genuine parts are used in the remanufacturing process and you receive a guaranteed warranty and quality certificate with each pump.
- New pumps eligible for Remanufacturing Program twice.

**Factory Inspect and Advise Program**
- Return your pump for extensive factory inspection.
- Cost effective options to match your performance/budget needs.
- Your pump body may be remachined up to 6 times.
- Replacement rotors and parts available.
- Factory warranty.

**SPX FLOW Certified Pump Repair Centers**
- Local distributors with factory trained and certified service technicians.
- Quick local response.
- Genuine WCB parts.
- Flexible repair programs to meet your needs.
- Local warranty.

Scan the code to view our Global Standard Terms and Conditions or visit www.spxflow.com/