

# Universal 2 Series

ROTARY POSITIVE DISPLACEMENT PUMPS



> Waukesha Cherry-Burrell®

Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader. The company's highly-specialized, engineered products and technologies serve customers in three primary strategic growth markets: infrastructure, process solutions, and diagnostic systems. Many of SPX's innovative solutions are playing a role in helping to meet rising global demand, particularly in emerging markets, for electricity, processed foods and beverages and vehicle services. The company's products include thermal heat transfer equipment for power plants; power transformers for utility companies; process equipment for the food & beverage industry; and diagnostic tools and equipment for the vehicle service industry. For more information, please visit www.spx.com.

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.

THE UNIVERSAL II SERIES of pumps is the latest expression of this tradition. They combine 3-way mounting versatility introduced by the Universal I with new features that extend pump life and improve sanitary performance. Pump is available in CIPable configurations.

# New levels of sanitary performance. Long-life engineering features.

#### **PRODUCT FEATURES AND BENEFITS**

### **Sanitary Features**

- CIP capability available. Pump body has optional internal flat body profile and will free drain with vertical ports. Optional rotor and body hub drilling provided for difficult CIP cleaning applications.
- Cover is free draining in horizontal or vertical port positions.
- Rotor/shaft connection sealed from product zone.
- Single mechanical seals standard. Optional double mechanical seals also available.
- Seal flush optional: seal areas interconnected to improve circulation and draining of seal flush fluid. Steam-In-Place also is optional.
- Stainless steel bearing frame optional on models 006 to 220.
- Aseptic design (Option)

#### **Long-life Features**

- Up to 500 psi (34.5 bar) pressure capability.
- Special rotor nut designed for extended service without loosening.
- No bearings in the product zone.
- Larger diameter 17-4 PH shafts for greater strength and stiffness. Helps eliminate vibration; extends seal life.
- Heavy duty bearing frame (stainless steel available as an option).
- Double tapered roller bearings.
- Greased lubed bearings for positive lubrication to all bearings over entire speed, temperature and pressure range.
- Body retaining screws for maintaining mechanical seal contact during inspection.
- Extended outer seal life. A wave spring, instead of an O-ring, mechanically loads the seal.
- O-Ring on inner seal, seals on clean surface as seal moves due to wear.
- Unique mechanical seal design utilizes 3 pin stationary seal and special design shaft for rotary seal.

### **Installation Features**

- Bidirectional flow. Rotors, locked with belleville washers and torqued nuts, rotate securely in either direction. No more flow direction/shaft position specifications.
- Interchangeable installation dimensions with Universal I and Universal Lobe PD pumps. (Except for 320 and 324 sizes)
- Versatile 3-Way mounting of gear case, including vertical alignment of ports.
- Upper or lower shaft position.
- Jacketed or vented cover optional.
- Exclusive, non-galling Waukesha "88" alloy rotors standard; permits running at tighter clearances and pumping a wide range of viscosities. 316L stainless steel lobe rotors also available.
- 316L stainless steel pump body and cover; 316L optional.
- Electro-polish of product contact surfaces, optional.



flat body profile





Shown with optional stainless steel gearcase











# Typical product applications

### **Food and Beverage**

Soups, Stews. Tomato Paste Vegetables, Dressings Chocolate, Fats & Oils Batters, Cream Fillings Brewery, Wort Soft/Fruit Drinks



#### **Dairy**

Cream, Milk Cheese Curd & Whey Cottage Cheese Yogurt



### Pharmaceutical/Cosmetics

Pill Pastes
Syrups, Extracts, Slurries
Face Creams & Lotions
Hair Styling Gels & Liquids
Dyes & Alcohols



# Chemical/Industrial

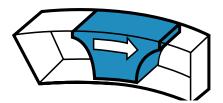
Solvents, Paints Fuels Resins, Polymers & Sludges Oil & Lubricants Soaps



# Time-tested Waukesha Cherry-Burrell rotary pump; circumferential-piston operating principle

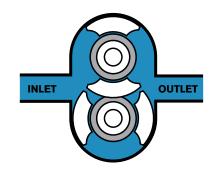
#### THEORY OF OPERATION

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.



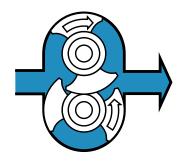
#### FOR LOW VISCOSITY FLUIDS

Rotors, made of exclusive 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 efficiency, good priming ability, metering capability and good flow control.



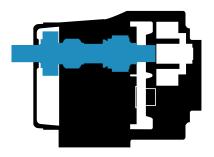
#### FOR HIGH VISCOSITY FLUIDS

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 bearing in the fluid being pumped, no sliding or rolling contact and no rotor-to-rotor contact. This produces MAXIMUM SERVICE LIFE even under severe operating conditions.



# PRODUCT SPECIFICATIONS



| UNIVERSA | L 2 MODELS                        |                            |                  |                              |                           |                |   |
|----------|-----------------------------------|----------------------------|------------------|------------------------------|---------------------------|----------------|---|
| MODEL    | DISPLACEMENT<br>PER<br>REVOLUTION | NOMINAL<br>CAPACITY*<br>TO | INLET/<br>OUTLET | OPTIONAL<br>INLET/<br>OUTLET | PRESSURE RANGE<br>UP TO** | MAXIMUM<br>RPM | TEMP<br>RANGE                             |
| 006-U2   | .0082 GAL. (.031 LITER)           | 8 GPM (1.8 m3/hr.)         | 1"               | 1 ½"                         | 300 PSI (20.7 bar)        | 1000           |   |
| 015-U2   | .0142 GAL. (.054 LITER)           | 11 GPM (2.5 m3/hr.)        | 1 1/2"           | -                            | 250 PSI (17.2 bar)        | 800            |   |
| 018-U2   | .029 GAL. (.110 LITER)            | 20 GPM (4.5 m3/hr.)        | 1 1/2"           | 2"                           | 200 PSI (13.8 bar)        | 700            |   |
| 030-U2   | .060 GAL. (.227 LITER)            | 36 GPM (8.2 m3/hr.)        | 1 1/2"           | 2"                           | 250 PSI (17.2 bar)        | 600            |   |
| 040-U2   | .076 GAL. (.288 LITER)            | 46 GPM (10.4m3/hr.)        | 2                | -                            | 150 PSI (10.5 bar)        | 600            | Std. Ro-                                  |
| 045-U2   | .098 GAL. (.371 LITER)            | 58 GPM (13.2 m3/hr.)       | 2"               | -                            | 450 PSI (31.0 bar)        | 600            | tors: -40°F<br>(-40°C) to<br>200°F (93°F) |
| 060-U2   | .153 GAL. (.579 LITER)            | 90 GPM (20.4 m3/hr.)       | 21/2"            | 3"                           | 300 PSI (20.7 bar)        | 600            | Hot Clear-<br>ance Rotors:                |
| 130-U2   | .253 GAL. (.958 LITER)            | 150 GPM (34.1 m3/hr.)      | 3"               | -                            | 200 PSI (13.8 bar)        | 600            | 180°F (82°C)<br>to<br>300°F               |
| 180-U2   | .380 GAL. (1.438 LITER)           | 230 GPM (52.2 m3/hr.)      | 3"               | -                            | 450 PSI (31.0 bar)        | 600            | (149°C)                                   |
| 210-U2   | .502 GAL. (1.900 LITER)           | 300 GPM (68.1 m3/hr.)      | 4"               | -                            | 500 PSI (34.5 bar)        | 600            |   |
| 220-U2   | .521 GAL. (1.972 LITER)           | 310 GPM (70.4 m3/hr.)      | 4"               | -                            | 300 PSI (20.7 bar)        | 600            |   |
| 320-U2   | .752 GAL. (2.847 LITER)           | 450 GPM (102 m3/hr.)       | 6"               | -                            | 300 PSI (20.7 bar)        | 600            |   |
| 370-U2   | 1.099 GAL (4.160 LITER)           | 660 GPM (150 m3/hr.)       | 6"               | -                            | 200 PSI (13.8 bar)        | 600            |   |



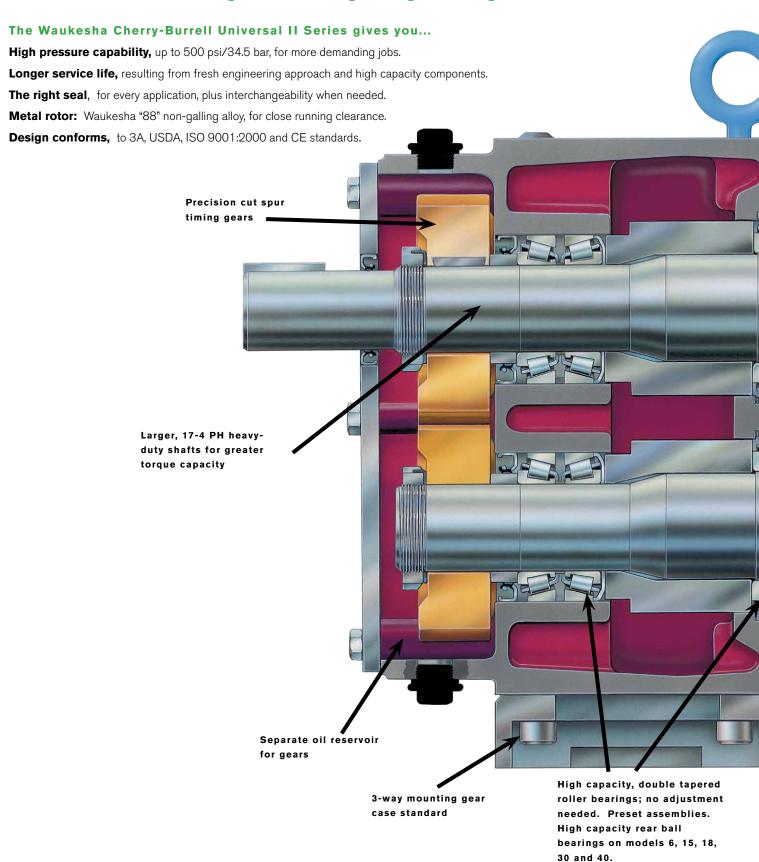
# RECTANGULAR FLANGE MODELS

| MODEL  | DISPLACEMENT<br>PER<br>REVOLUTION | NOMINAL<br>CAPACITY*<br>TO         | INLET/<br>W X L<br>Inches | OUTLET | PRESSURE RANGE<br>UP TO** | MAXIMUM<br>RPM | TEMP<br>RANGE                         |
|--------|-----------------------------------|------------------------------------|---------------------------|--------|---------------------------|----------------|---------------------------------------|
| 014-U2 | .0142 GAL. (.054 LITER)           | 5.68 GPM (1.3 m³/hr.)              | 1.44 X 4.94               | 1 ½"   | 250 PSI (17.2 bar)        | 400            |                                       |
| 034-U2 | .060 GAL. (.227 LITER)            | 24 GPM (5.5 m³/hr.)                | 1.81 X 6.84               | 2"     | 250 PSI (17.2 bar)        | 400            |                                       |
| 064-U2 | .153 GAL. (.579 LITER)            | 61 GPM (13.9 m³/hr.)               | 2.44 X 9.0                | 2 1/2" | 300 PSI (20.7 bar)        | 400            | Std. Ro-<br>tors: -40°F<br>(-40°C) to |
| 134-U2 | .253 GAL. (.958 LITER)            | 101 GPM (22.9 m³/hr.)              | 3.19 X 9.38               | 3"     | 200 PSI (13.8 bar)        | 400            | 200°F (93°F) Hot Clear-               |
| 184-U2 | .380 GAL. (1.483 LITER)           | 152 GPM (34.5 m³/hr.)              | 3.28 X 11.25              | 3"     | 450 PSI (31.0 bar)        | 400            | ance Rotors:<br>180°F (82°C)          |
| 214-U2 | .502 GAL. (1.90 LITER)            | 200 GPM (45.4 m <sup>3</sup> /hr.) | 3.45 X 12.70              | 4"     | 500 PSI (34.5 bar)        | 400            | to<br>300°F<br>(149°C)                |
| 224-U2 | .521 GAL. (1.972 LITER)           | 208 GPM (47.2 m³/hr.)              | 4.06 X 11.25              | 4"     | 300 PSI (20.7 bar)        | 400            |                                       |
| 324-U2 | .752 GAL. (2.847 LITER)           | 300 GPM (68.1 m³/hr.)              | 4.25 X 12.70              | 6"     | 300 PSI (20.7 bar)        | 400            |                                       |

 $<sup>^{\</sup>star}$ For capacities above 830 to 935 GPM, see bulletin FH-1725 on 420/520 UHC (ECP Rotors).

<sup>\*\*</sup>Contact application engineering for higher pressure or higher temperature applications.

# Performance and Long Life Through Engineering.



# 316L stainless steel; design conforms to 3A, USDA, BISSC, EHEDG, CE, ASME standards Field Interchangeable seal options for every service

Optional drilling

shown for CIP models

Front bearing fixed; rear bearing floating.

hot products

Better control of thermal

expansion when handling

# Seal Options

# Double Concentric Mechanical Seal\*

Used with flushing fluid to cool, lubricate, flush away residue. Best arrangement for severe service.

# Single Mechanical Seal\*

Carbon-to-ceramic faces standard. Alternate materials available for abrasive service.

# Elastomer choices for "O" rings:

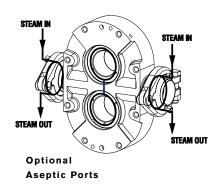
- Buna-N
- Fluoroelastomer (FKM)
- EPDM
- Silicone
- Perfluoroelastomer (FFKM)
- PTFE Encapsulated

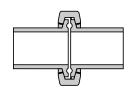
# \*Mechanical seal material options:

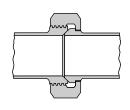
- Carbon
- Ceramic
- Silicon Carbide
- Tungsten Carbide

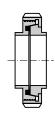
# Standard & Options

# Ports









Standard Sanitary Clamp Type Is available in a variety of styles including S-Line, I-Line and Q-Line

Bevel Seat Available Optional European Types; DIN, SMS, RJT

Male NPT and 150 lb. flanges optional on Models 006 through 220 size. 150 lb. flanges standard on Model 320.

Contact factory for available rectangular flange inlets.

# Rotors



Standard; suitable for most applications.

# Single Wing

For minimum breakage on fluids with discrete particles, such as diced tomato products.

#### **Rotor Clearance**

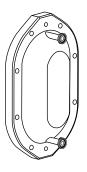
Standard for most applications up to 200°F. Hot clearance rotors option for applications up to 300°F. Other special clearances available.

# O-Rings

# **Buna-N Standard**

Optional: Fluoroelastomer (FKM), EPDM, Silicone, Per Fluoroelastomer (FFKM), FEP Encapsulates.

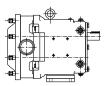
# Cover & Gearcase



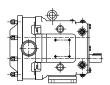
Optional drain and/or vent connections



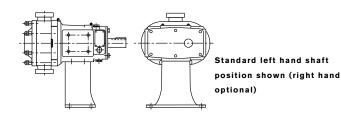
Shown with optional 3-wing cover nuts



Top Shaft Position Standard



ower Shaft Position. Optional



Optional Side Mount Gear Case for vertical fluid entry and free draining of body

# 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.

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:

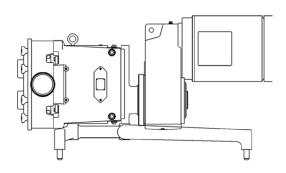
- 304 SS unpolished plate base.
- 304 SS polished plate base.
- NEMA or IEC frames available. Right angle reducer also available for additional space savings.
- 1/2 through 60 horsepower drive options available.
- Horizontal or vertical porting.

# **Shaft Position**

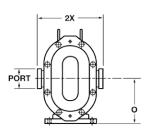
# Mounting

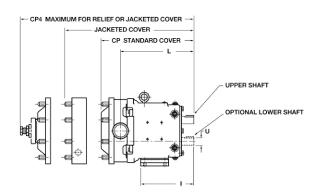
# Bases and Drives

# Tru-Fit™



### **DIMENSIONAL DATA**





| MODEL    |     | СР    | 1     | L     | 0     | PORT SIZE   | U<br>+.000<br>001 | 2 X   | CP4   |
|----------|-----|-------|-------|-------|-------|-------------|-------------------|-------|-------|
| 000 110  | IN  | 11.71 | 7.66  | 9.61  | 4.21  | 1"          | 0.875             | 6.97  | 14.92 |
| 006-U2   | mm  | 297   | 194   | 244   | 107   |             | 22.23             | 177   | 379   |
| 045 110  | IN  | 11.71 | 7.66  | 9.61  | 4.21  | 1 - 1/2"    | 0.875             | 6.97  | 14.92 |
| 015-U2   | m m | 297   | 194   | 244   | 107   |             | 22.23             | 177   | 379   |
| 010 110  | IN  | 12.37 | 7.66  | 10.48 | 4.21  | 1 - 1/2"    | 0.875             | 6.97  | 15.58 |
| 018-U2   | mm  | 314   | 194   | 266   | 107   |             | 22.23             | 177   | 396   |
| 000 110  | IN  | 14.49 | 8.83  | 11.61 | 5.21  | 1 - 1/2"    | 1.25              | 8.5   | 17.58 |
| 030-U2   | m m | 368   | 224   | 295   | 132   |             | 31.75             | 216   | 447   |
| 0.40 110 | IN  | 14.87 | 8.83  | 11.99 | 5.21  | 2"          | 1.25              | 8.62  | 17.96 |
| 040-U2   | mm  | 378   | 224   | 305   | 132   |             | 31.75             | 219   | 456   |
| 045-U2   | IN  | 18.59 | 10.99 | 14.86 | 7.31  | 2"          | 1.625             | 10.75 | 22.28 |
| 045-02   | mm  | 472   | 279   | 377   | 186   |             | 41.28             | 273   | 566   |
| 060-U2   | IN  | 19.14 | 10.99 | 15.14 | 7.31  | 2-1/2"      | 1.625             | 10.75 | 22.83 |
| 060-02   | mm  | 486   | 279   | 385   | 186   |             | 41.28             | 273   | 580   |
| 130-U2   | IN  | 20.15 | 10.99 | 15.77 | 7.31  | 3"          | 1.625             | 10.75 | 23.84 |
| 130-02   | mm  | 512   | 279   | 401   | 186   |             | 41.28             | 273   | 606   |
| 180-U2   | IN  | 23.26 | 14.8  | 18.25 | 9.38  | 3"          | 2                 | 13.06 | 28.51 |
| 160-02   | mm  | 591   | 376   | 464   | 238   |             | 50.8              | 332   | 724   |
| 210-U2   | IN  | 27.08 | 17.8  | 21.24 | 10.38 | 4"          | 2.375             | 14.73 |       |
| 210-02   | mm  | 688   | 452   | 539   | 264   |             | 60.45             | 374   |       |
| 220-U2   | IN  | 24    | 14.8  | 18.49 | 9.38  | 4"          | 2                 | 13.25 | 29.25 |
| 220-02   | mm  | 610   | 376   | 470   | 238   |             | 50.8              | 337   | 743   |
| 320-U2   | IN  | 27.66 | 17.8  | 21.63 | 10.38 | 6" 150# FLG | 2.375             | 16    |       |
| 320-02   | mm  | 703   | 452   | 549   | 264   |             | 60.45             | 406   |       |
| 370-U2   | IN  | 29.16 | 17.8  | 22.32 | 10.38 | 6" 150# FLG | 2.38              | 17    |       |
| 370-02   | mm  | 741   | 452   | 567   | 264   |             | 60.5              | 432   |       |

NOTE: Dimension "2X" applies for Bevel Seat, "S"-Clamp, "Q"-Clamp, 15I and 14I fittings on Models 006 through 220.

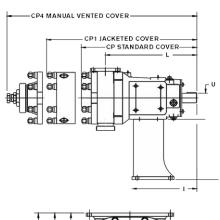
Dimension "2X" applies for 6" 150 lb. RF Flange on Model 320.

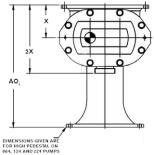
Consult factory for available rectangular flange inlets.

NOTE: Dimensions are for guidance purposes only. Contact your SPX Representative if more detailed measurements are needed.

UNIVERSAL 2 MODELS - RECTANGULAR FLANGE

| MODEL    |    | AO*   | СР    | CP4   | 1     | PORT<br>SIZE | U<br>+.000<br>001 | 2X    | WT<br>LBS/<br>KG |
|----------|----|-------|-------|-------|-------|--------------|-------------------|-------|------------------|
| 04.4.110 | IN | 12.5  | 11.71 | 14.92 | 7.66  | 1 - 1/2"     | 0.875             | 7.11  | 47               |
| 014-U2   | mm | 318   | 297   | 379   | 195   |              | 22.23             | 181   | 21               |
| 034-U2   | IN | 12.75 | 14.49 | 17.58 | 8.49  | 2"           | 1.25              | 8.12  | 100              |
| 034-02   | mm | 324   | 368   | 447   | 216   |              | 31.75             | 206   | 45               |
| 064-U2   | IN | 13.94 | 19.14 | 22.83 | 10.77 | 2-1/2"       | 1.625             | 10.31 | 255              |
| 064-02   | mm | 354   | 486   | 580   | 274   |              | 41.28             | 262   | 116              |
| 134-U2   | IN | 13.94 | 20.15 | 23.84 | 10.77 | 3"           | 1.625             | 10.31 | 280              |
| 134-02   | mm | 354   | 512   | 606   | 274   |              | 41.28             | 262   | 127              |
| 184-U2   | IN | 35.94 | 23.26 | 28.51 | 13.74 | 3"           | 2                 | 13.78 | 414              |
| 184-02   | mm | 913   | 591   | 724   | 349   |              | 50.8              | 350   | 225              |
| 214-U2   | IN | 35.94 | 27.08 |       | 16.86 | 4"           | 2.375             | 16.17 | 759              |
| 214-02   | mm | 913   | 688   |       | 428   |              | 60.33             | 411   | 345              |
| 224-U2   | IN | 19.75 | 24    | 29.25 | 13.74 | 4"           | 2                 | 12.87 | 505              |
| 224-02   | mm | 502   | 610   | 743   | 349   |              | 50.8              | 327   | 229              |
| 324-U2   | IN | 35.94 | 27.66 |       | 16.86 | 6"           | 2.375             | 17.81 | 775              |
| 324-02   | mm | 913   | 703   |       | 428   |              | 60.33             | 452   | 352              |



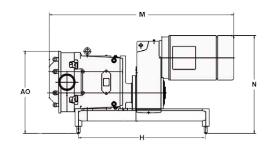


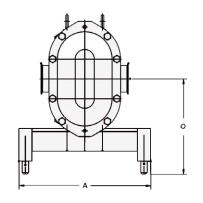
NOTE: Dimensions are for guidance purposes only. Contact your WCB Representative if more detailed measurements are needed.

\*Optional Pedestal sizes are available please contact factory for more details.

UNIVERSAL 2 MODELS - TRU- $FIT^{TM}$ 

| MODEL   |     | А   | AO    | н   | М     | PORT<br>SIZE | N     | О     |
|---------|-----|-----|-------|-----|-------|--------------|-------|-------|
| 222 112 | IN  | 12  | 13.25 | 18  | 27.31 | 1 - 1/2"     | 15.56 | 9.15  |
| 006-U2  | mm  | 305 | 37    | 457 | 694   |              | 395   | 232   |
| 045 110 | IN  | 12  | 13.25 | 18  | 27.31 | 1 - 1/2 "    | 15.56 | 9.15  |
| 015-U2  | mm  | 305 | 37    | 457 | 694   |              | 395   | 232   |
| 018-U2  | IN  | 12  | 13.25 | 18  | 27.31 | 1 - 1/2 "    | 15.56 | 9.15  |
| 018-02  | mm  | 305 | 37    | 457 | 712   |              | 395   | 232   |
| 030-U2  | IN  | 14  | 15.11 | 20  | 33.57 | 1 - 1/2"     | 18.65 | 10.02 |
| 030-02  | mm  | 356 | 384   | 508 | 853   |              | 474   | 255   |
| 040-U2  | IN  | 14  | 15.11 | 20  | 33.94 | 2"           | 18.65 | 10.02 |
| 040-02  | mm  | 356 | 384   | 508 | 862   |              | 474   | 255   |
| 045-U2  | IN  | 18  | 20    | 28  | 43.72 | 2"           | 22.02 | 12    |
| 045-02  | mm  | 457 | 508   | 711 | 1112  |              | 559   | 305   |
| 060-U2  | IN  | 18  | 20    | 28  | 44    | 2 - 1/2"     | 22.02 | 12    |
| 060-02  | mm  | 457 | 508   | 711 | 1118  |              | 559   | 305   |
| 130-U2  | IN  | 18  | 20    | 28  | 45.01 | 3"           | 22.02 | 12    |
| 130-02  | mm  | 457 | 508   | 711 | 1143  |              | 559   | 305   |
| 180-U2  | IN  | 20  | 23.25 | 36  | 50.02 | 3"           | 25.91 | 14.5  |
| 160-02  | m m | 508 | 591   | 914 | 1270  |              | 658   | 368   |
| 220-U2  | IN  | 20  | 23.25 | 36  | 50.76 | 4"           | 25.91 | 14.5  |
| 220-02  | mm  | 508 | 591   | 914 | 1289  |              | 658   | 368   |





NOTE: Dimensions are for guidance purposes only. Contact your SPX Representative if more detailed measurements are needed.

# Rotary Positive Displacement Pumps

**UNIVERSAL 2 SERIES** 



# When it is time to repair ...

# SPX 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 complete 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 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.

#### SPX Warranty

Seller warrants its products to be free from defects in materials and workmanship for a period of one (1) year from the date of shipment. This warranty shall not apply to products which require repair or replacement due to normal wear and tear or to products which are subjected to accident, misuse or improper maintenance. This warranty extends only to the original buyer. Products manufactured by others but furnished by seller are exempted from this warranty and are limited to the original manufacturer's warranty.

SPX FOOD+BEVERAGE develops and implements processing technologies and other measures to help companies manage critical issues in food and beverage processing.

SPX POWER+ENERGY offers solutions for building and updating energy infrastructure, as well as for processes ranging from fuel extraction to electricity distribution.

SPX VEHICLE+TRANSIT devises products and technologies for the service and repair of automobiles and recreational vehicles, rail, heavy equipment, marine craft and mass transit.

SPX INDUSTRIAL PROCESSES creates equipment and technologies to help customers transform materials efficiently, safely and with low downtime or environmental impact.

SPX INFRASTRUCTURE serves the many market sectors involved in building and ensuring the reliability of the infrastructure, ranging from utilities to communications and broadcast.

#### **SPX FLOW TECHNOLOGY**

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SPX reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region. For more information visit www.spx.com.

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