



Universal TS Series

ROTARY POSITIVE DISPLACEMENT TWIN SCREW PUMPS





www.hollandapt.com

> Waukesha Cherry-Burrell®

Users of pumps t product design,



ton Series pumps for:

have yielded progressively higher levels of performance and service life.

The new Universal Twin Screw (TS) Series pump from SPX FLOW runs with the same reliability you've come to expect from SPX FLOW. Its versatile design improves processing time and maximizes productivity.

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. 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. Expert engineering capabilities 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-theart Innovation Centers, and advanced pilot/ testing technology further assist in optimizing processes and reducing time lines to reliably meet production targets.

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

RELIABLE PERFORMANCE -

Screws made from Waukesha Alloy 88 non-galling material allow the pump to run through incidental contact and reduce risk of pump damage if screws make contact

GENTLE PRODUCT HANDLING -

Pumps large particulates without degradation

RESPONSIVE SERVICE -

Extensive global distribution network with certified repair centers provide quick response times for parts and service

EASY MAINTENANCE -

Front loaded access to product side seals

PROCESS FLEXIBILITY -

Low inlet pressure requirement and a wide range of operating speeds allow for multiple duties including process and CIP supply. Bi-directional flow capability without making modifications to the pump.

SMOOTH OPERATION -

Reduces slip pulse in low inlet pressure, low viscosity, and high pressure conditions

REDUCED NOISE LEVELS -

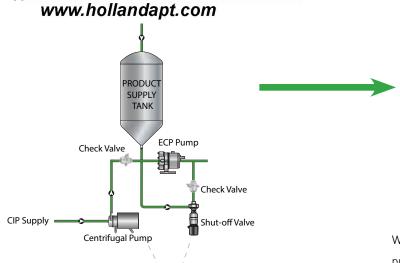
Operating principle virtually eliminates pressure fluctuations



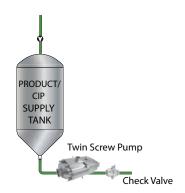


from your process

SAL TS PUMP FOR BOTH PRODUCT AND CIP



CONTROLS



With its high suction capability, the Universal TS Series pump is both process and CIP capable, allowing you to reduce the number of pumps, valves, and control systems in your process and save capital equipment costs.

Choose the right screw pitch for your process

Three screw pitch options for all models offer a wide selection of capacities, pressures, flow rate profiles, and particle sizes. SPX FLOW pump specialists can advise you on the optimal pitch for your application.



Option 1: Wide pitch for applications requiring lower pressures with higher flow rates or a need to accommodate larger particulates



Option 2: Midrange pitch - offers a balance in pressure and flow velocities between the larger and smaller screw profiles



Option 3: Narrow pitch applications requiring higher pressures with lower flow rates

Typical product applications



Food and Beverage

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



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 Soaps Cosmetics



Chemical/Industrial

Solvents, Paints Resins, Polymers & Sludges Oil & Lubricants



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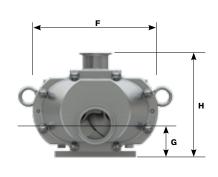
- CIP capability standard. Pump body and cover are free draining
- Screw/shaft connection sealed from product zone
- Single and Double mechanical seal options
- All models include seal flush ports for optional double seal
- Steam-In-Place capable
- · Stainless steel gear case standard

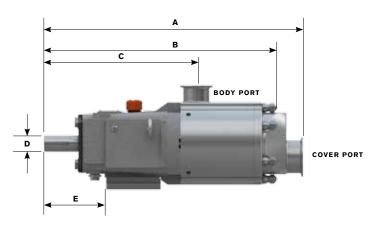
Installation Features

- Indexed splined shafts and screws provide positive engagement and ease installation of the screws
- Capable of bi-directional flow without having to change bearings or body orientation
- Non-galling Waukesha "88" alloy screws standard; permits running at tighter clearances and pumping a wide range of viscosities
- 316L stainless steel pump body and cover
- Product seal and barrier seal parts are identical; simplify assembly, reduce number of unique components
- All pumps are performance tested prior to shipment

- Up to 375 psi (25.5 bar) pressure capability
- Special rotor nut designed for extended service
- No bearings in the product zone
- Large diameter 17-4 PH shafts for greater strength and stiffness. Helps reduce vibration and extends seal life
- Standard heavy duty stainless steel bearing frame
- Built with high precision needle roller element bearings
- Oil-lubricated bearings for positive lubrication over entire speed, temperature and pressure range
- Body retaining screws for maintaining mechanical seal contact during inspection
- Unique mechanical seal design utilizes common parts for inner and outer seal seats and rotary seals in a compact design

PRODUCT DIMENSIONS





| MODEL | | A | В | С | D +.000 001 | E | F | G | н | COVER PORT | BODY PORT | WEIGHT |
|---------|----|-------|-------|-------|-------------------|------|-------|------|-------|---------------|--------------|---------|
| 015-UTS | in | 16.40 | 15.32 | 10.27 | 0.875 | 4.07 | 7.68 | 2.20 | 6.76 | 1.50, 2.00 | 1.50, 2.00 | 87 lbs |
| | mm | 417 | 389 | 261 | 22.23 | 103 | 195 | 56 | 172 | 38, 51 | 38, 51 | 39 kg |
| 030-UTS | in | 20.11 | 18.07 | 11.83 | 1.25 | 4.83 | 9.65 | 2.52 | 8.05 | 2.00, 3.00 | 2.00, 2.50 | 160 lbs |
| | mm | 511 | 459 | 300 | 31.75 | 123 | 245 | 64 | 204 | 38, 76 | 38, 64 | 73 kg |
| 130-UTS | in | 25.81 | 23.37 | 15.29 | 1.625 | 5.25 | 13.12 | 3.98 | 10.68 | 3.00, 4.00 | 2.50, 3.00 | 385 lbs |
| | mm | 656 | 594 | 388 | 41.28 | 133 | 332 | 101 | 271 | 76, 102 | 64, 76 | 175 kg |
| 220-UTS | in | 33.79 | 23.03 | 18.18 | 2.00 | 5.80 | 16.90 | 4.04 | 15.65 | 4.00, 6.00 | 4.00, 6.00 | 750 lbs |
| | mm | 858 | 585 | 462 | 50.8 | 147 | 428 | 103 | 398 | 102, 152 | 102, 152 | 340 kg |

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



APPLIED TECHNOLOGIES (800)-800-8464 PRESSURE RANGE (MAX) MAXIMUM PARTICULATE MAXIMUM RPM www.hollandapt.com TEMP RANGE GAL LITER GPM LPM IN MM IN MM ΜМ PSI BAR 16.5 0.02 0.08 70 0.33 3500 265 8 015-UTS 33 0.03 0 11 105 398 2 51 1.5 38 0.65 17 375 25.5 3500 0.04 0.15 140 0 44* 3500 44 530 11 16.8 0.03 0.11 93 352 0.33 8 3100 030-UTS 28 0.05 0.19 155 587 2.5 64 2 51 0.55 14 375 25.5 3100 -40°F (-40°C) 42 0.08 0.30 248 939 0.83 21 3100 300°F (149°C) 36.7 0.45 300 1136 0.72 2500 130-UTS 0.68 1703 55 0.18 450 102 2.5 64 1.09 28 2500 73.4 0.24 0.91 600 2271 0.72* 18 2500 2271 0.89 2000 45 1.14 600 22

102

152

or

0.40

0.61

1.51

2.31

60

90

NOTE: Running for extended periods of time at high RPMs may require external gear box cooling equipment. If operation is required near the maximum allowable RPM, please contact SPX FLOW application engineering for confirmation of the correct pump configuration.

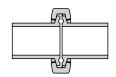
3028

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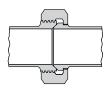
OPTIONS AND ACCESSORIES

Ports

220-UTS



Sanitary Clamp (S-Line*, I-Line and Q-Line)



800

1220

Bevel Seat



102

152

1.18

1.77

30

45

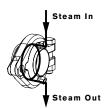
375

25.5

2000

2000

Optional European Types; DIN, SMS, RJT



Optional Aseptic Ports

Contact factory for available rectangular flange inlets.

Screw Pitches







Narrow

Medium

Wide

O-Rings

FKM Standard

Fluoroelastomer (FKM), EPDM, Fluoroelastomer (FFKM)

^{*} Double start screws limit particulate size.

^{*} S-Line standard



Engineered for Performance and Long Life.

Waukesha Cherry-Burrell Universal TS Series provides:

High pressure capability - up to 375 psi/25.5 bar

Optimal seals - for most applications, plus interchangeability when needed

Compliant design - 3-A, USDA, ISO 9001: 2008

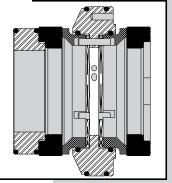
SCREWS MADE FROM WAUKESHA "88" NON-GALLING ALLOY FOR CLOSE RUNNING CLEARANCES 316L STAINLESS STEEL CONSTRUCTION



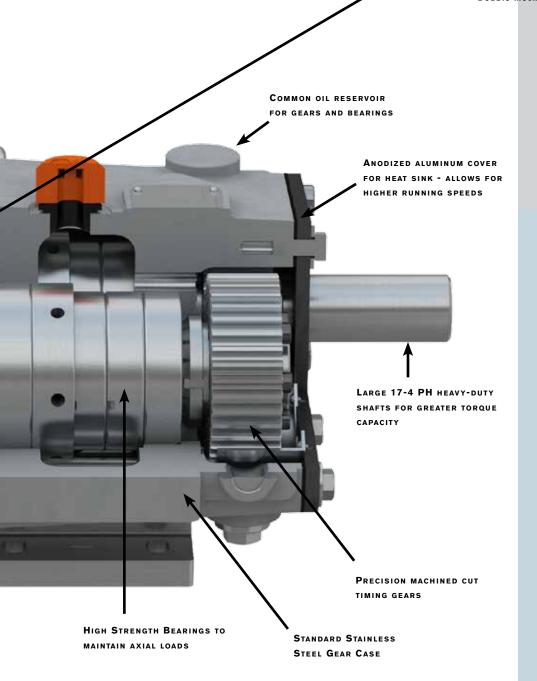
Seal Options

Single or Double Mechanical Seal*

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



Double mechanical seal shown



Elastomer choices for "O" rings:

- Fluoroelastomer (FKM)
- EPDM
- FFKM

*Mechanical seal material options:

- Carbon
- Silicon Carbide
- Tungsten Carbide



Rotary Positive Displacement Twin Screw Pumps

UNIVERSAL TS SERIES

SPXFLOW

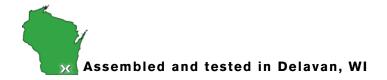
For pump repair, choose the SPX FLOW maintenance program to meet your needs.

SPX FLOW Certified Pump Repair Centers

- Local distributors with factory trained service technicians
- Quick local response
- Genuine WCB parts
- Flexible repair programs to meet your needs
- Product warranty







CONTACT A SPX FLOW PUMP EXPERT TODAY AND FIND THE RIGHT PUMP FOR YOUR PROCESS

SPX FLOW

611 Sugar Creek Road

Delavan, WI 53115

P: (262) 728-1900 or (800) 252-5200

E: wcb@spxflow.com

Based in Charlotte, North Carolina, SPX FLOW, Inc. (NYSE: FLOW) is a multi-industry manufacturing leader. For more information, please visit www.spxflow.com

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

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