



SCAN TO VIEW PRODUCT ANIMATION

Universal TS Series

ROTARY POSITIVE DISPLACEMENT TWIN SCREW PUMPS





>Waukesha Cherry-Burrell[®]

Users of Waukesha Cherry-Burrell brand 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 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.

You can count on Universal TS Series pumps for:

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 -

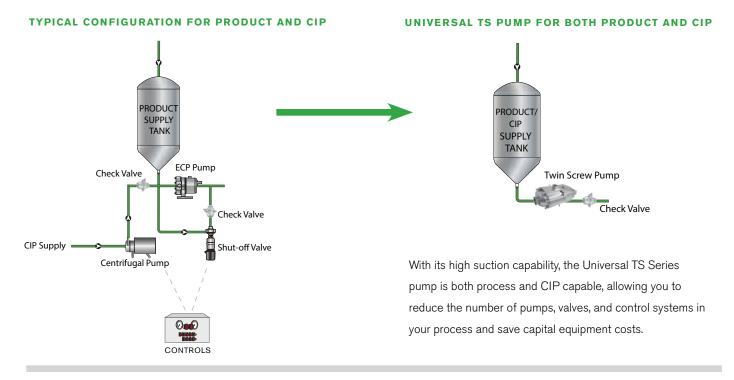
Reduces slip pulse in low inlet pressure, low viscosity, and high pressure conditions

REDUCED NOISE LEVELS -

Operating principle virtually eliminates pressure fluctuations



Minimize extra pumps, valves, and controls from your process



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

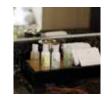
Typical product applications



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 Fuels Resins, Polymers & Sludges Oil & Lubricants

New levels of sanitary performance. Long-life features.

PRODUCT FEATURES AND BENEFITS

Sanitary Features

- 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

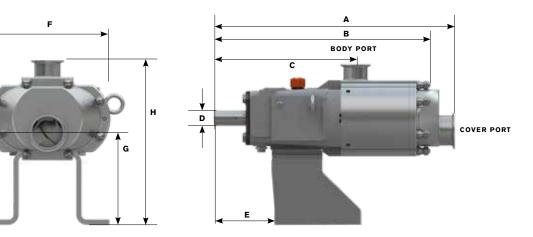
- Indexed splined shafts and screws provide positive engagement and ease installation of the screws
- Capable of bi-directional flow without having to change bearings or body orientation
- Non-galling Waukesha "88" alloy screws standard; permits running at tighter clearances and pumping a wide range of viscosities
- 316L stainless steel pump body and cover

PRODUCT DIMENSIONS

- Product seal and barrier seal parts are identical; simplify assembly, reduce number of unique components
- All pumps are performance tested prior to shipment

Features

- 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



MODEL		А	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	4.95	7.68	7.28	11.84	1.50, 2.00	1.50, 2.00	95 lbs
	mm	417	389	261	22.23	126	195	185	301	38, 51	38, 51	43 kg
030-UTS	in	20.11	18.07	11.83	1.25	4.95	9.65	6.96	12.49	2.00, 3.00	2.00, 2.50	166 lbs
	mm	511	459	300	31.75	126	245	177	317	38,76	38,64	75 kg
130-UTS	in	25.81	23.37	15.29	1.625	7.46	13.12	9.92	16.62	3.00, 4.00	2.50, 3.00	396 lbs
	mm	656	594	388	41.28	189	332	252	422	76, 102	64,76	180 kg
220-UTS	in	33.79	23.03	18.18	2.00	9.19	16.90	8.68	20.28	4.00, 6.00	4.00, 6.00	750 lbs
	mm	858	585	462	50.8	233	428	220	515	102, 152	102, 152	340 kg

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

PRODUCT SPECIFICATIONS

UNIVERSAL TS MODELS

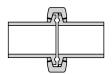
MODEL	SCREW PITCH	DISPLACEMENT PER REVOLUTION		NOMINAL CAPACITY (MAX)		COVER PORT		BODY Port		MAXIMUM Particulate		PRESSURE RANGE (MAX)		MAXIMUM RPM	TEMP RANGE
		GAL	LITER	GPM	LPM	IN	мм	IN	мм	IN	мм	PSI	BAR		
015-UTS	16.5	0.02	0.08	70	265	2	51	1.5	38	0.33	8	375	25.5	3500	-40°F (-40°C) to 300°F (149°C)
	33	0.03	0.11	105	398					0.65	17			3500	
	44	0.04	0.15	140	530					0.44*	11			3500	
030-UTS	16.8	0.03	0.11	93	352	2.5	64	2	51	0.33	8	375	25.5	3100	
	28	0.05	0.19	155	587					0.55	14			3100	
	42	0.08	0.30	248	939					0.83	21			3100	
130-UTS	36.7	0.12	0.45	300	1136	4	102	2.5	64	0.72	18	375	25.5	2500	
	55	0.18	0.68	450	1703					1.09	28			2500	
	73.4	0.24	0.91	600	2271					0.72*	18			2500	
220-UTS	45	0.30	1.14	600	2271	4 or 6	102 or 152	4 or 6	102 or 152	0.89	22	375	25.5	2000	
	60	0.40	1.51	800	3028					1.18	30			2000	
	90	0.61	2.31	1220	4618					1.77	45			2000	

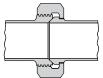
* Double start screws limit particulate size.

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.

OPTIONS AND ACCESSORIES

Ports





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

Bevel Seat



Optional European Types; DIN, SMS, RJT



Optional Aseptic Ports

* S-Line standard

Contact factory for available rectangular flange inlets.

Medium

Screw Pitches





Narrow

Wide

O-Rings

FKM Standard

Fluoroelastomer (FKM), EPDM, Fluoroelastomer (FFKM)

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, EU Machinery Directive, EHEDG¹

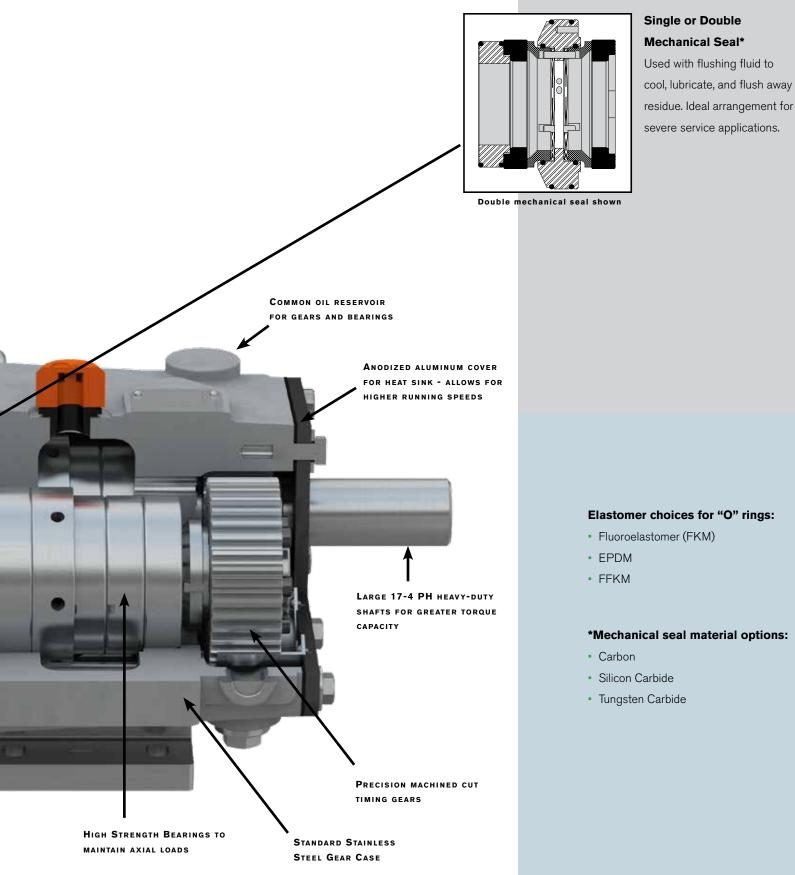
¹ EHEDG (Type EL Class I) certification applies for UTS pump sizes 015 to 220 with EPDM, FKM or FFKM gaskets and SiC, TC or C mechanical seal material.

SCREWS MADE FROM WAUKESHA "88" NON-GALLING ALLOY FOR CLOSE RUNNING CLEARANCES

316L STAINLESS STEEL

FIELD INTERCHANGEABLE SEAL OPTIONS FOR EVERY SERVICE

Seal Options



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





Assembled and tested in Delavan, WI

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

SPX FLOW

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

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