

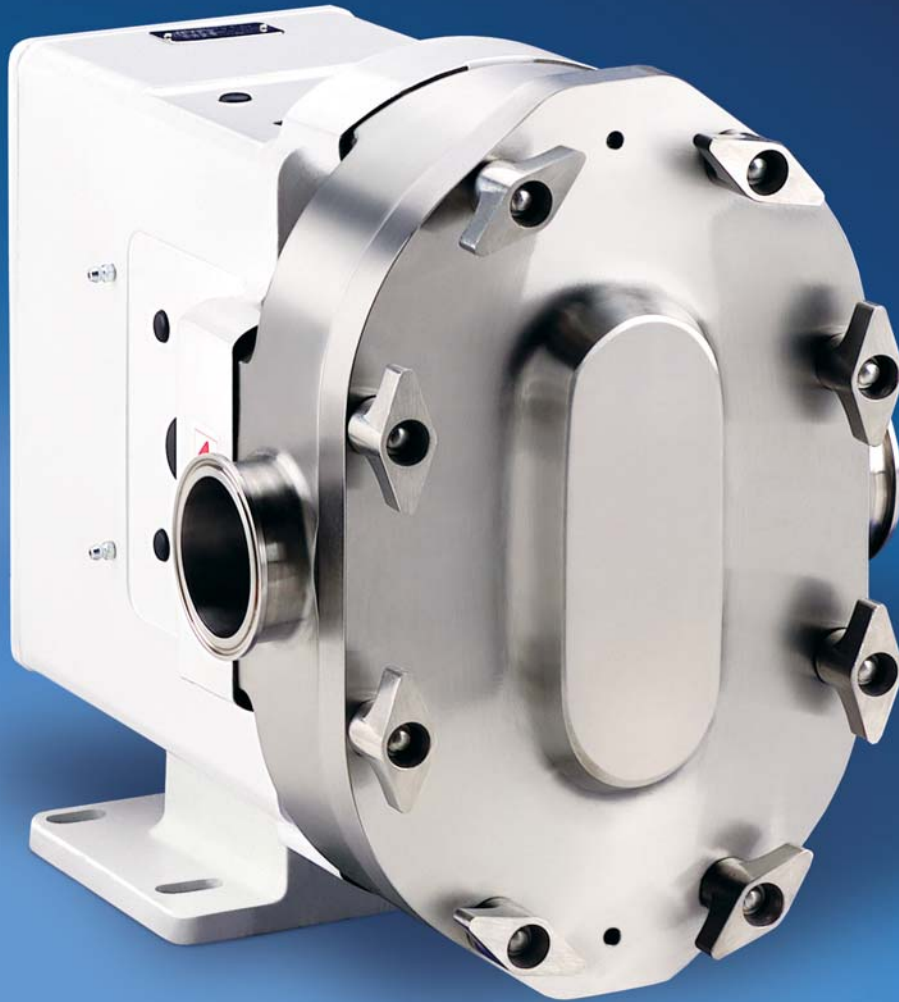


Capacity to 450 GPM/102 M³/hr

Pressure to 200 PSI/14 Bar (Model 0450 to 400 PSI/27 Bar)

Viscosity to 910,000 SSU (200,000 cPs)

Temperature -40° to 300° F (-40° to 150° C)



SANITARY POSITIVE DISPLACEMENT PUMPS

TRA10 Series



WRIGHT PUMP

ICEX
IDEX CORPORATION

The TRA10 Pump Series



The reliability of Wright Pump's positive displacement circumferential piston pumping principle has been proven over many decades. Its robust design and easy cleanability make it applicable for all sanitary fluids.

Wright Pumps' gentle action on shear-sensitive liquids, or slurries with soft solids, makes them the preferred technology for all areas of food processing, beverage and cosmetic manufacturing, worldwide.

Construction

- ▶ Pump casing is 316 Stainless Steel, interior finished to 3-A standards.
- ▶ Rotors are special "Wright 808" non-galling, nickel-based alloy. Wright Pump manufactures this material in its own foundry for maximum quality control.
- ▶ Twin wing rotors are standard, with single wing rotors for large solids optional.
- ▶ One-piece 316L stainless steel shafts standard on models 0060, 0150 & 0180. High-strength 17-4 PH shafts standard on models 0300, 0450, 0600, 1300, 2200 & 3200.
- ▶ Powder-coated gearcase standard (FDA white, RAL 9003). Stainless steel gearcase optional on models 0060, 0150 & 0180.
- ▶ Helical timing gears minimize operating noise.
- ▶ Seal options include single O-ring seal, single mechanical seal, double O-ring seal with flush, or double mechanical seal with flush.
- ▶ Four-way mounting allows horizontal or vertical porting and provides mounting flexibility.

Typical Applications



- ▶ **Dairy:** milk, cream, curds, butter, soft cheese, yogurt, butter, margarine, ice cream
- ▶ **Bakery:** yeast, dough, fruit filling, icing, fats and oils
- ▶ **Meats:** sausage filling, fats, broths, gelatins, pet food
- ▶ **Canned Foods:** potato salad, baby food, soups, stews, tomatoes, relishes, pudding, dressings, mayonnaise, jams and jellies
- ▶ **Beverages:** beer, mash, wort, fruit juices, fruit concentrate
- ▶ **Candy:** sugars, chocolate, cocoa butter, corn syrup, gelatin
- ▶ **Flavorings:** syrups and concentrates
- ▶ **Dressings:** Mayonnaise and other prepared sauces
- ▶ **Cosmetics:** creams, lotions, jellies, shampoos, emulsions, toothpaste
- ▶ **Industrial:** automotive paints, inks, latex, polymers



Pumps available with CE mark.

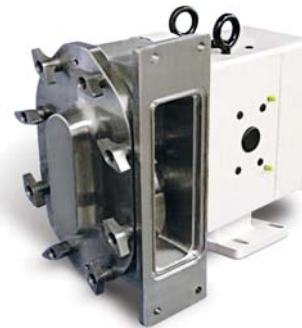
Pump Performance

TRA10 Models

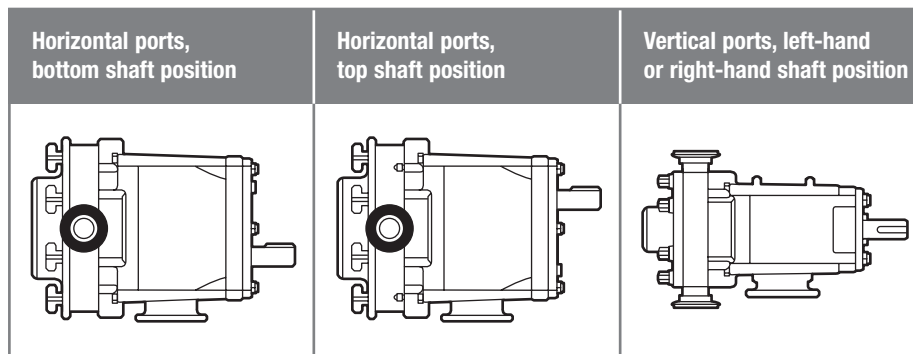
Criteria	UNITS	0060	0150	0180	0300	0450	0600	1300	2200	3200
Output per Revolution	Gallons	0.008	0.014	0.029	0.060	.115	0.153	0.254	0.522	.754
	Liters	0.031	0.054	0.110	0.227	.435	0.579	0.961	1.976	2.854
Maximum Speed	RPM	800	700	600	600	600	600	600	600	600
Maximum Capacity	GPM	6	9	17	36	69	90	150	310	450
	M3/hr	1.3	2.0	3.8	8.2	15.7	20.4	34.1	70.4	102
Maximum Pressure	PSI	200				400	200			
	Bar	14				27	14			
Temperature Range	Deg. F	-40° to 300°								
	Deg. C	-40° to 150°								
Standard Port Size	IN	1, 1.5	1, 1.5	1.5	1.5	2	2.5	3	4	6
Optional Port Sizes	IN	—	—	2	2	2.5	3	4	—	—

Rectangular Flange Models

Criteria	UNITS	0240	0340	0640	1340	2240
Output per Revolution	Gallons	.029	.060	.15	.25	.52
	Liters	.11	.22	.57	.96	1.97
Maximum Speed	RPM	400	400	400	400	400
Maximum Capacity	GPM	11.6	24	60	100	200
	M3/hr	2.5	5.4	13.6	22.7	45.4
Maximum Pressure	PSI	200				
	Bar	14				
Temperature Range	Deg. F	-40° to 300°				
	Deg. C	-40° to 150°				
Inlet W x L	IN	1.31 x 4.93	1.75 x 6.75	2.24 x 8.82	2.97 x 9.25	3.87 x 11
Discharge	IN	1.5	2	2.5	3	4



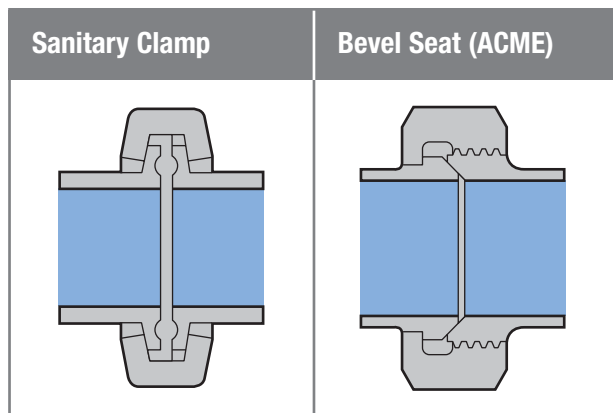
Installation Positions 4-Way Mounting



Performance Range

- ▶ **Capacity Range:** 0.1 to 450 gpm (0.02 to 102 m3/hr)
- ▶ **Pressure Range:** to 200 PSI/14 Bar (Model 0450 to 400 PSI/27 Bar)
- ▶ **Temperature Range:** -40°F to +300°F (-40°C to +150°C)
Note: Hot clearances required for high temp operation
- ▶ **Viscosity Range:** 28 to 910,000 SSU (1 to 200,000 cPs)

Port Configurations



Other port configuration options include:

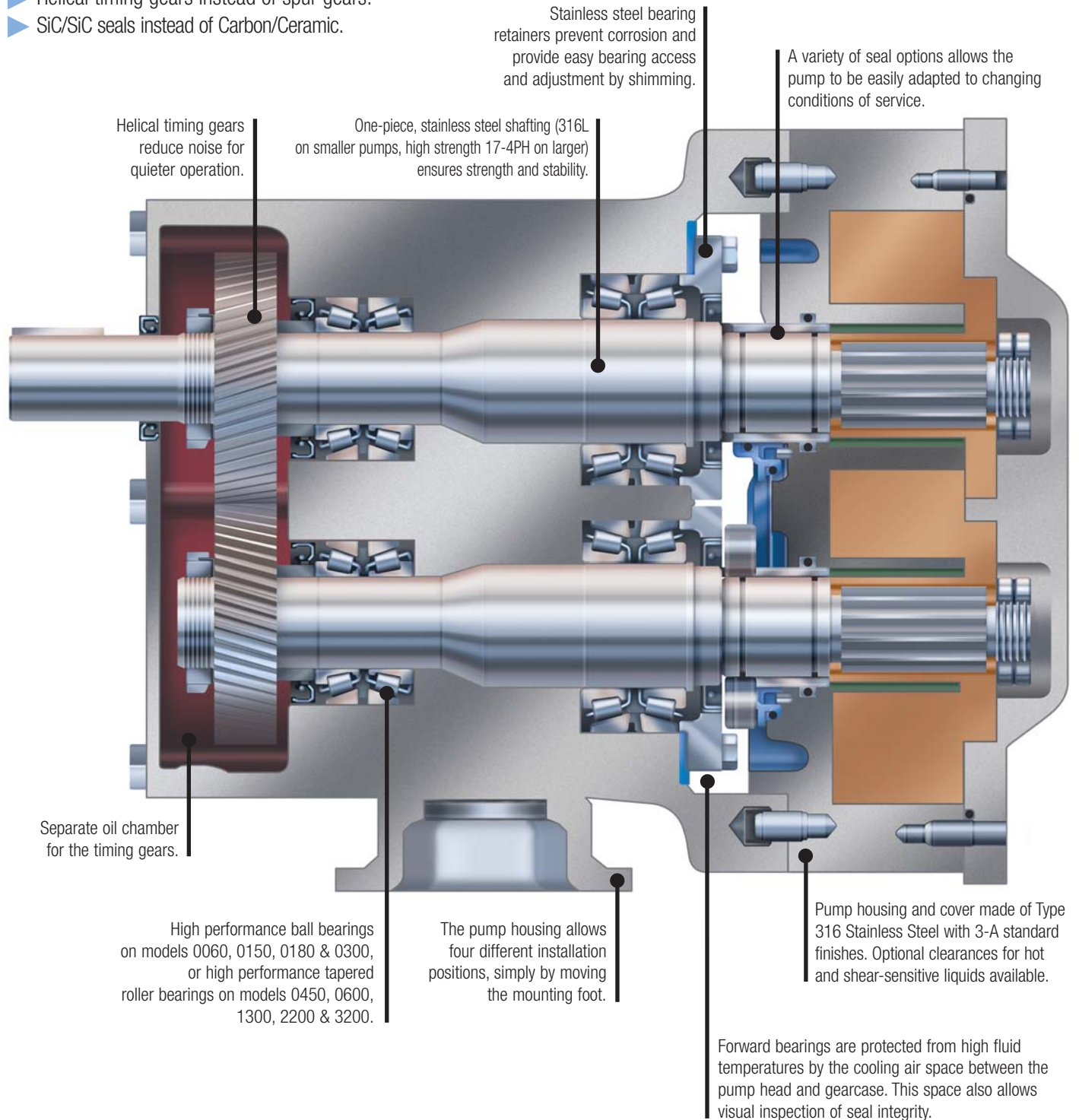
- ▶ DIN 11851
- ▶ RJT
- ▶ NPT
- ▶ SMS
- ▶ 150# or 300# flange
- ▶ Rectangular inlet flange

Wright TRA10 Features

- ▶ Time tested and proven circumferential piston design.
- ▶ Exceptional engineering and manufacturing quality.
- ▶ Parts interchangeable with Waukesha® U1 series.
- ▶ Powder coated casing (FDA white, RAL 9003), instead of painted iron.
- ▶ Pump housing dowel pinned and bolted to gearcase, instead of dowel pinned only, to protect seals on disassembly and simplify cleaning.

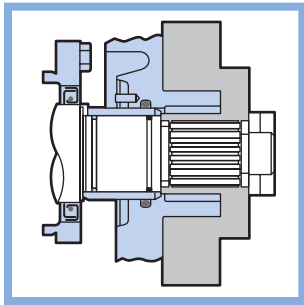
Wright offers added value, standard:

- ▶ One-piece stainless steel shafts instead of welded bi-metal.
- ▶ Helical timing gears instead of spur gears.
- ▶ SiC/SiC seals instead of Carbon/Ceramic.



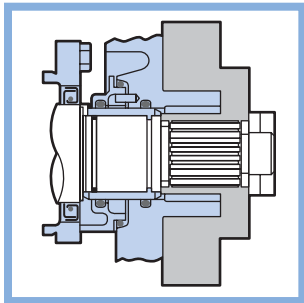
Shaft Sealing Options

...for different liquids and conditions of service



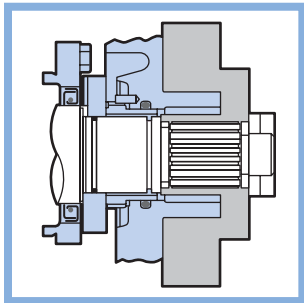
Single O-Ring Seals

- ▶ Standard O-rings and Cover Seals: Buna
- ▶ Optional O-rings and Cover Seals: FKM, EPDM, Silicone



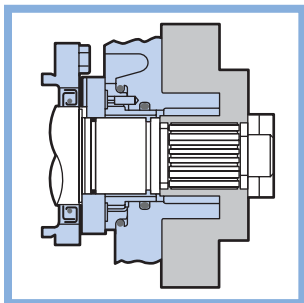
Double O-Ring Seals with Flush

- ▶ Standard O-rings and Cover Seals: Buna
- ▶ Optional O-rings and Cover Seals: FKM, EPDM, Silicone



Single Mechanical Seals

- ▶ Standard Seal Faces: SiC/SiC
- ▶ Standard O-rings and Cover Seals: Buna
- ▶ Optional Faces: Carbon, Ceramic or Chrome Oxide
- ▶ Optional O-rings and Cover Seals: FKM, EPDM, Silicone



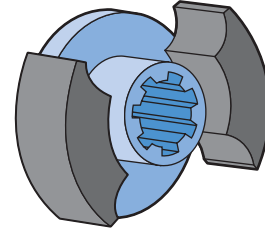
Double Mechanical Seals with Flush

- ▶ Standard Seal Faces: SiC/SiC
- ▶ Standard O-rings and Cover Seals: Buna
- ▶ Optional Faces: Carbon, Ceramic or Chrome Oxide
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Rotors

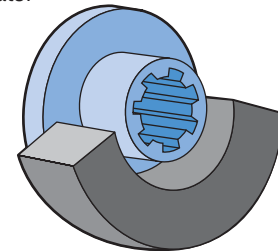
Twin Wing Rotors Standard.

Suitable for all liquids, provides minimum pulsation.



Single Wing Rotors Optional.

Provides reduced shear on shear-sensitive fluids or large solids such as fruit pieces, nut kernels, cheese curds or meats.



About Wright Pump

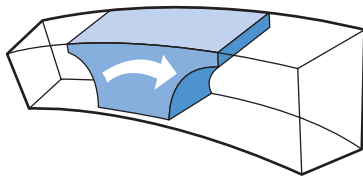
Wright Pump was established in 1996 by a group of former executives of Waukesha Cherry-Burrell. Wright first developed a line of replacement parts that were interchangeable with those of Waukesha® pumps, and later manufactured complete pumps which were drop-in replacements, but with significant improvements

standard, like helical timing gears, one-piece stainless steel shafts, high-strength 17-4 PH shafts on larger sizes, powder-coated gearboxes, four-way mounting and solid one-piece covers. Wright Pump has been a part of IDEX Corporation since 2002.

WRIGHT's Positive Displacement Circumferential Piston Pumping Principle

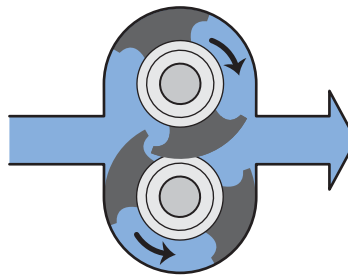


Wright Pumps' rotor wings (pistons) rotate around the circumference of the channel in the pump casing. This continuously generates a partial vacuum at the suction port as the rotors unmesh, causing fluid to enter the pump. The fluid is transported around the channel by the rotor wings, and is displaced as the rotor wings re-mesh, generating pressure at the discharge port. Pump output is directly proportional to speed, and direction of flow is reversible.



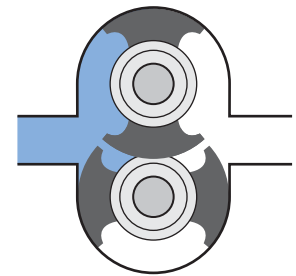
A

The deep channels in which the rotors travel provide large voids to minimize shear and bruising of solids.



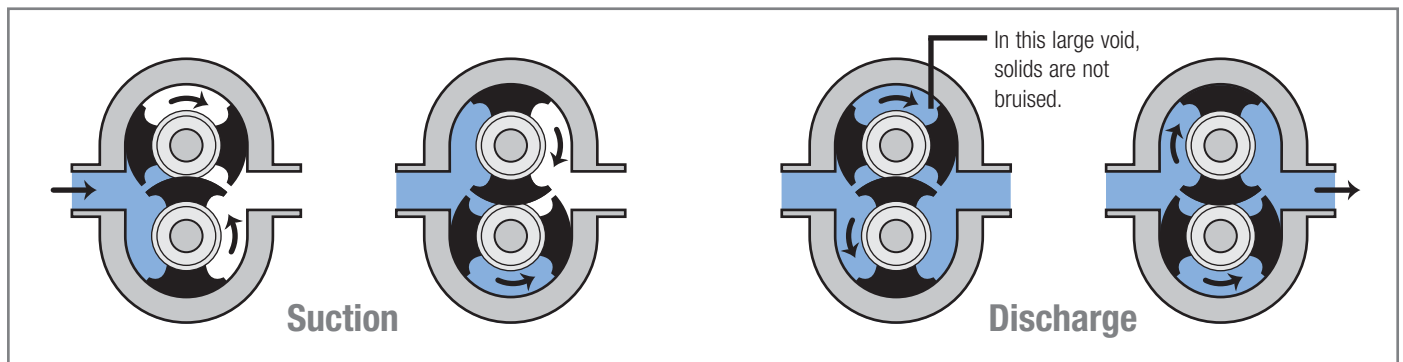
B

The rotors are made of "Wright 808" non-galling alloy, allowing extremely tight clearances between rotating and stationary surfaces, which ensures high efficiency and metering accuracy, even on thin liquids.



C

The forward part of each non-galling rotor rotates in a recess in the pump head to minimize deflection even at high discharge pressures.

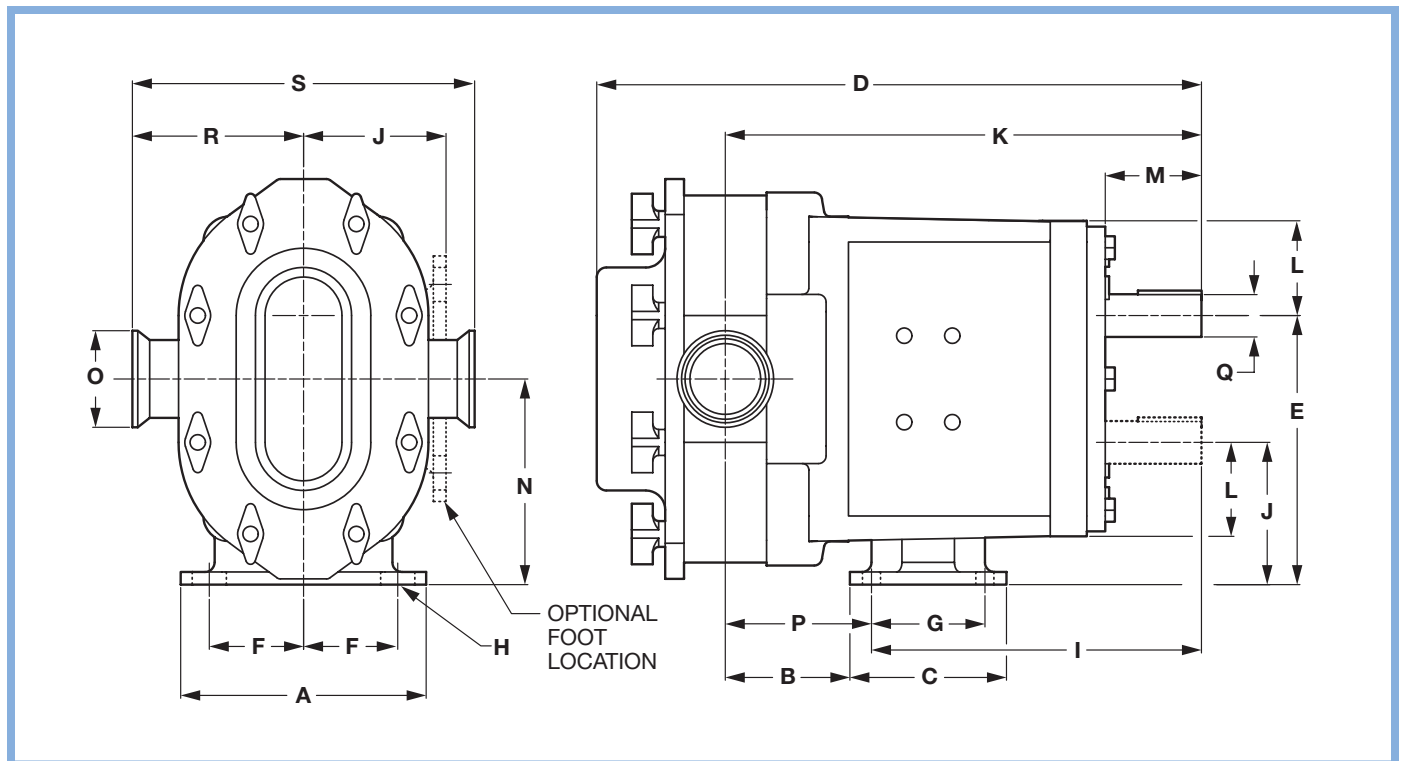


Unique Cleaning and Maintenance Features

- ▶ Designed for easy strip cleaning, the pump casing is independently fastened to the gearbox to prevent damage to the seals when the cover is removed, and to allow the rotors to be turned while spraying down the fluid chamber.
- ▶ Bearing retainers are stainless steel, not carbon steel, ensuring longer life under harsh cleaning conditions.
- ▶ Grease fittings are threaded, not pressed in, to prevent accidental removal during greasing.

Dimensions

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	Ø	R	S	Weight
TRA10 0060																					
in.	4.75	1.95	3.75	12.04	5.50	1.94	2.31	0.375 x 0.31 (slot)	6.82	2.93	9.61	2.12	2.00	4.21	1.5	2.79	0.875	3.49	6.97	53 lb.	
mm	121	50	95	303	140	49	59	9.5 x 8 (slot)	173	74	244	54	51	107	38	71	22.23	89	177	24 kg	
TRA10 0150																					
in.	4.75	1.95	3.75	12.04	5.50	1.94	2.31	0.375 x 0.31 (slot)	6.82	2.93	9.61	2.12	2.00	4.21	1.5	2.79	0.875	3.49	6.97	53 lb.	
mm	121	50	95	303	140	49	59	9.5 x 8 (slot)	173	74	244	54	51	107	38	71	22.23	89	177	24 kg	
TRA10 0180																					
in.	4.75	2.18	3.75	12.46	5.50	1.94	2.31	0.375 x 0.31 (slot)	6.82	2.93	9.84	2.12	2.00	4.21	1.5	3.02	0.875	3.55	7.09	53 lb.	
mm	121	55	95	316	140	49	59	9.5 x 8 (slot)	173	74	250	54	51	107	38	77	22.23	90	180	24 kg	
TRA10 0300																					
in.	6.25	2.78	4.25	14.58	6.86	2.31	2.56	0.438 x 0.44 (slot)	7.77	3.56	11.61	2.62	2.32	5.21	1.5	3.84	1.250	4.25	8.50	99 lb.	
mm	159	71	108	370	174	59	65	11 x 11 (slot)	197	90	295	67	59	132	38	98	31.75	108	216	45 kg	
TRA10 0450																					
in.	8.25	4.14	5.87	18.91	9.56	3.50	4.12	0.56 x 0.50 (slot)	10.13	5.06	15.14	3.50	2.25	7.31	2	5.01	1.625	5.38	10.75	290 lb.	
mm	210	105	149	480	243	89	105	14 x 13 (slot)	257	129	385	89	57	186	51	127	41.28	136	273	132 kg	
TRA10 0600																					
in.	8.25	4.14	5.87	18.91	9.56	3.50	4.12	0.56 x 0.50 (slot)	10.13	5.06	15.14	3.50	2.25	7.31	2.5	5.01	1.625	5.37	10.75	290 lb.	
mm	210	105	149	480	243	89	105	14 x 13 (slot)	257	129	385	89	57	186	63	127	41.28	136	273	132 kg	
TRA10 1300																					
in.	8.25	4.78	5.87	19.85	9.56	3.50	4.12	0.56 x 0.50 (slot)	10.12	5.06	15.77	3.50	2.25	7.31	3	5.65	1.625	5.37	10.75	312 lb.	
mm	210	121	149	504	243	89	105	14 x 13 (slot)	257	129	401	89	57	186	76	144	41.28	136	273	142 kg	
TRA10 2200																					
in.	8.50	3.69	9.0	23.37	12.38	3.75	7.25	0.56 x 0.19 (slot)	14.05	6.38	18.49	4.50	2.75	9.38	4	4.44	2.000	6.63	13.25	555 lb.	
mm	216	94	229	594	314	95	184	14 x 5 (slot)	357	162	470	114	70	238	102	113	50.80	168	337	252 kg	
TRA10 3200																					
in.	12.00	4.12	11.63	30.17	13.88	5.25	8.00	0.66 Ø	16.55	6.88	21.92	5.06	4.06	10.38	6	5.37	2.375	8.00	16.00	1050 lb.	
mm	305	105	295	766	353	133	203	16 Ø	420	175	557	129	103	264	152	136	60.45	203	406	477 kg	



Note: For dimensions on options such as flanged inlet port or vented covers, please contact factory.

***Sanitary Pumps,
Parts, Remanufacturing & Accessories***

WRIGHT PUMP

The Right Alternative

WRIGHT PUMP

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