SELF-PRIMING TRASH PUMPS SPT/SXT SERIES SPU/SXU SERIES



FRAME MOUNTED PUMP

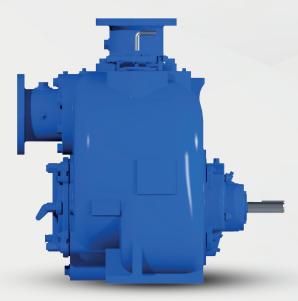


HIGH ON **PERFORMANCE**GREAT ON **RELIABILITY**

SELF-PRIMING TRASH PUMPS

Design Features

Rotech Pumps presents a range of Self-Priming Centrifugal. These pumps are economical & offer trouble-free operation in handling solids laden liquids and slurries. Pump features a large volume design which allows them to re-prime automatically in a completely open system without the need of suction or discharge check valves. And this is workable with the pump only partially filled with liquid and completely dry suction line. Pump can handle up to 3" spherical solids, depending on pump models. In case pump shafts or bearings need service, the entire rotating assembly can be removed without disturbing pump casing or pipelines.



Key Advantages

- · Superior Solid Handling
- · Self Priming
- · Easy Maintenance

Material Options

Cast Iron, ADI, CS, 304SS, 316SS, CD4MCUN, Alloy20, Hastelloy-B & C

Available Discharge Sizes

2", 3", 4", 6", 8", 10" & 12"

Sealing Option

Available in Tc/Tc/Viton mechanical seal to handle abrasive liquid and sewage, Industrial waste etc.. Custom designed seal to handle corrosive chemical like Keton, Xylene, Tolulene

Trash Design

Trash cover for easy maintenance without disturbing pipeline

Dual Bearing Protection

An atmospheric barrier along with two lip seals provide additional protection of the pump bearings. This unique design also allows for quick and easy external monitoring of the bearing cavity (not available on 2" models).

Removable Rotating Assembly

The entire rotating assembly can be removed without disturbing the pump volute or piping. Pusher bolt holes are provided to assist with removal. This allows for quick and easy installation of a spare rotating assembly, resulting in less downtime.

Drive Options

Can be coupled with standard NEMA & IEC motors. No special motor required. Also can be coupled with diesel engine.

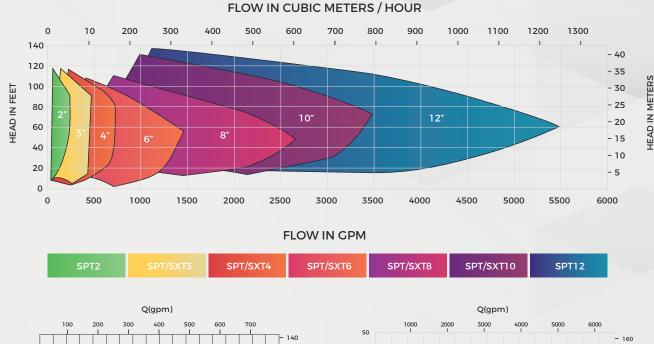
Coupling Options

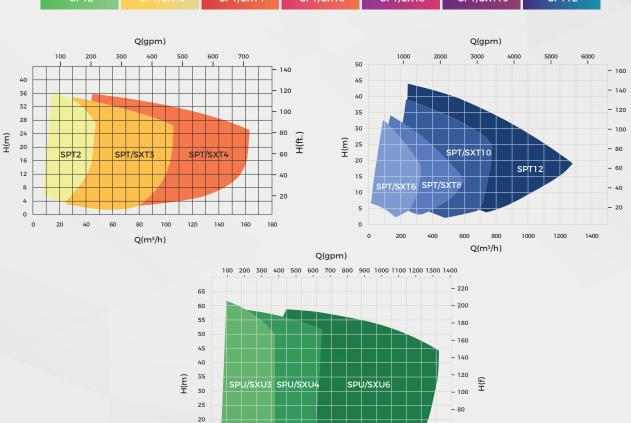
- Direct Coupled
- · Belt Pulley Driven

Impeller Options

Two-vane, ductile iron, semi-open solids-handling impeller handles up to 75 mm (3") diameter solids, depending on pump model. Pump out vanes on the impeller shroud reduce foreign material buildup behind the impeller and reduce pressure on seal and bearings.

HYDRAULIC PERFORMANCE COVERAGE





0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 $Q(m^3/h)$

- 60

- 40

- 20

SPT/SXT & SPU/SXU FLOW IN GPM

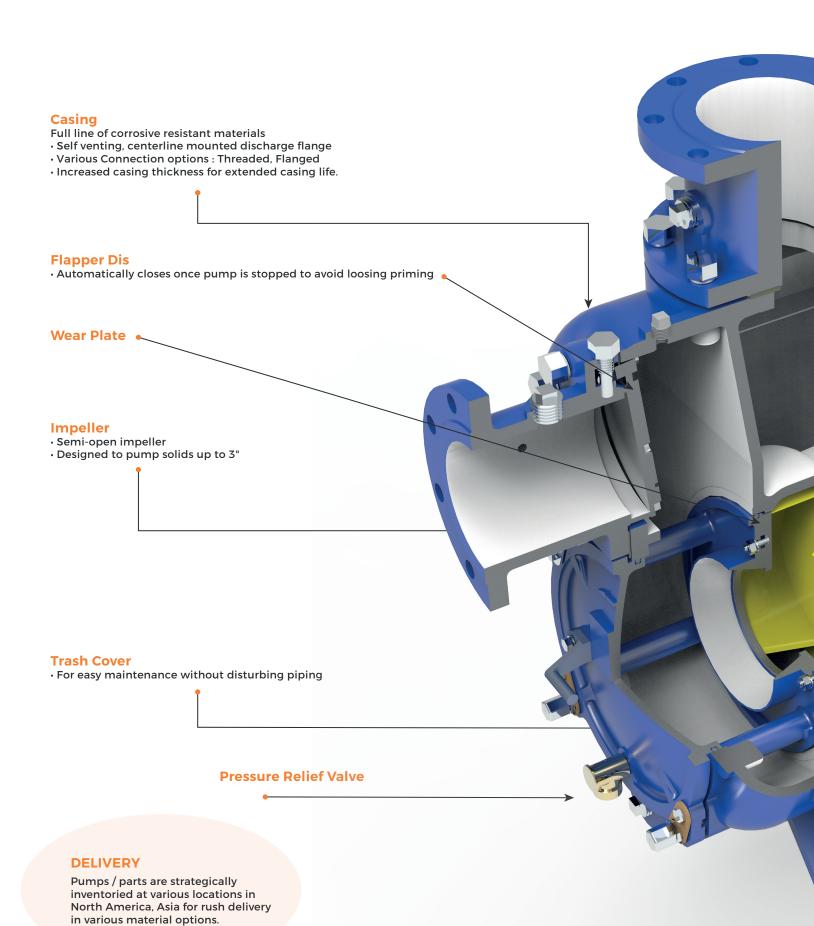
PUMP SIZE	ST2"	SPT/SXT 3"	SPT/SXT 4"	SPT/SXT 6"	SPT/SXT 8"	SPT/SXT 10"	SPT 12"
RPM RANGE	650 - 2900	650 - 2150	650 - 1950	650 - 1550	650 - 1350	650 - 1450	650 - 1450
MAX SOLIDS	1.75"	2.5"	3"	3"	3"	3"	3"

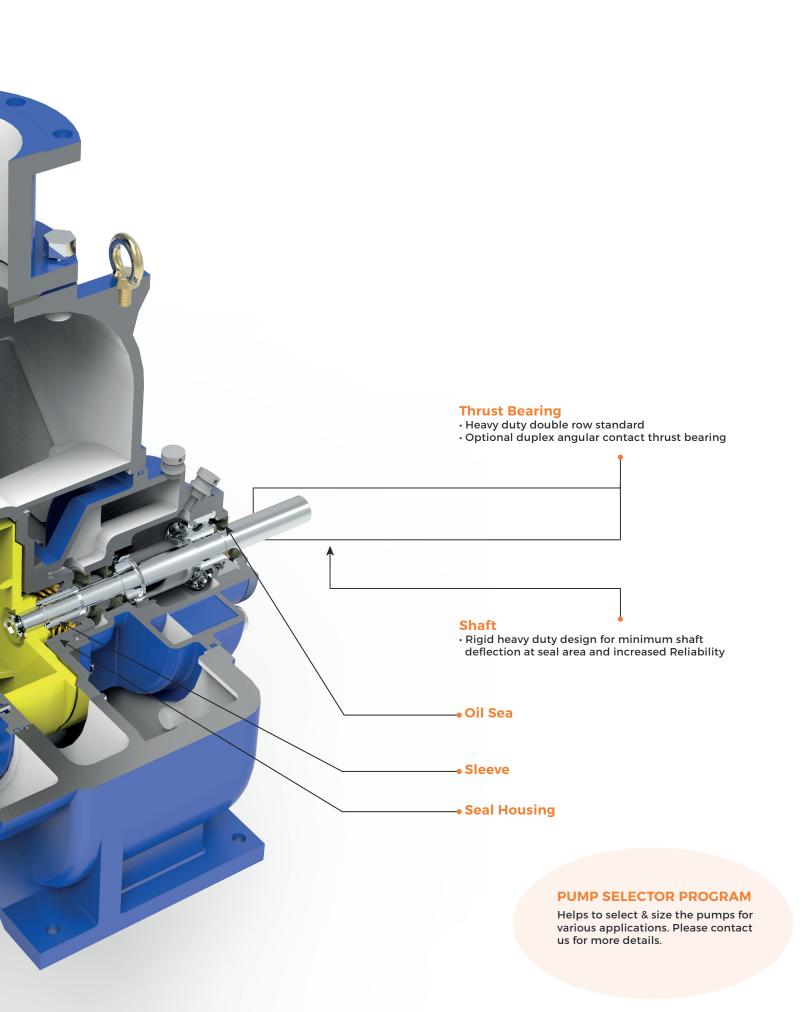
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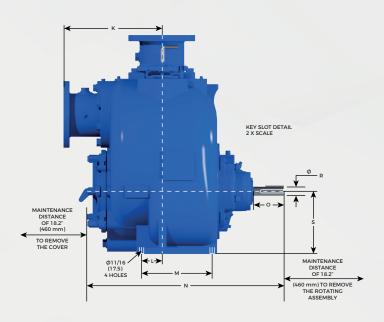
PUMP SIZE	SPU/SXU 3"	SPU/SXU 4"	SPU/SXU 6"
RPM RANGE	650 - 2900	650 - 2150	650 - 1950
MAX SOLIDS	1.75"	1.75"	1.75"

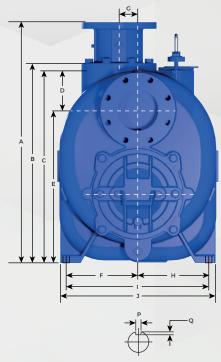
PUMP DESIGN FEATURES / ADVANTAGES





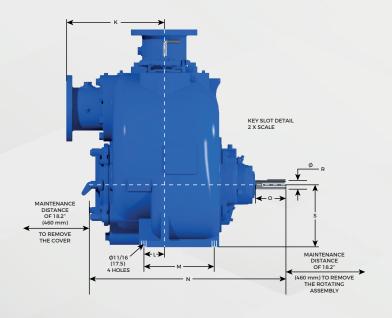
SPT/SXT (2" - 10" Dimensions)

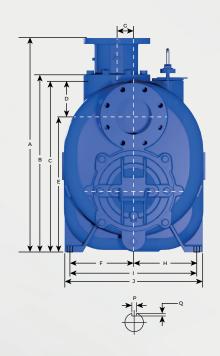




SPT/SXT (2" - 10" Dimensions)

SPT/SXT	А	В	С	D	Е	F	G	н	ı	J	K	L	М	N	0	Р	Q	R	s
2"	20.62	16.92	15.55	3.04	12.51	5.53	2.75	5.53	11.06	12.14	9.21	2.12	6.42	21.53	4.05	0.38	0.21	1.5	5.96
3"	27.50	22.25	21	4	17	7.75	2.75	7.75	15.5	17	11.6/ 11.56	3	9	28.57	4	0.38	0.21	1.5	7.5
4"	29.25	25.75	24.38	4.88	19.5	9	2.75	9	18	19.75	12.5	3.06	11	32	5	0.38	0.21	1.5	8.75
6"	35.31	29.88	28.25	5.87	22.38	10.38	2.75	10.38	20.75	22.75	16	3.06	11	35.5	5	0.38	0.21	1.5	10.13
8"	42.06	37.81	36	7.5	28.5	12.5	0	12.5	25	27.75	16.25	4	12	40.28	6.69	0.38	0.21	1.75	13
10"	41.25	41.25	N/A	N/A	25.19	12.5	0	12.5	25	27.75	28	4	12	48.71	4.81	0.38	0.21	1.75	14
12"	12" For 12 inch Pump size, please contact us for dimensional details.																		





SPU/SXU (3" - 6" Dimensions)

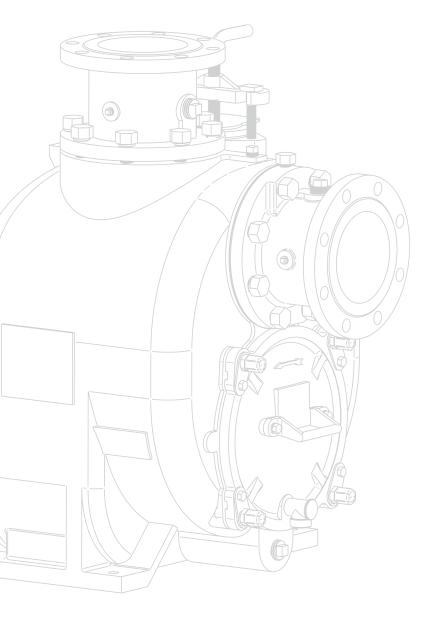
SPU/SXU	А	В	С	D	Е	F	G	н	ı	J	к	L	М	N	0	Р	Q	R	s
3"	27	22.23	N/A	5.23	17	7.75	2.75	7.75	15.5	17	11.5	3	9	26.25	4.06	0.38	0.19	1.5	7.5
4"	29.68	26.25	24.87	4.87	20	9	2.75	9	18	20	12.31	3.81	11	29.59	4.97	0.38	0.19	1.5	8.75
6"	35.32	29.88	28.25	7.51	22.38	10.38	2.75	10.38	20.76	23	16	3.06	11	33.25	4.97	0.38	0.19	1.75	10.12

Parts Interchangeability of SXT vs. SPT

Size	Common Parts	Interchangeable	Not Interchangeable
3"	Impeller, Seal Assembly, Outboard & Inboard Bearings, Seal Plate.Wear PlateAssembly	Rotating Assembly, and Pump footprints are identical	Volute Casing, Back Coverplate Assembly, Impeller Shaft
4"	Impeller, Seal Assembly, Seal Plate, Wear Plate Assembly	Rotatrg Assembly, and pump footprints are identical	Volute Casing, Back Coverplate Assembly, Bearings, Impeller Shaft
6"	Wear Plate Assembly	Rotating Assembly, and pump footprints are identical	Volute Casing, Back Coverplate Assembly, Impeller, Seal Plate, Bearings, Impeller Shaft
8"	Impeller, Seal Assembly, Outboard & Inboard Bearings, Seal Plate, Wear Plate	Rotating Assembly, and pump footprints are identical	Volute Casing, Back Coverplate Assembly, Impeller Shaft
10"	Impeller, Outboard & Inboard Bearings	Rotating Assembly, and pump footprints are identical	Volute Casing, Seal Plate. Impeller Shaft

Difference between SXT vs. SPT

		SXT	SPT
0	Impeller to Waer Plat clearance Adjustment	External shimless and indexable adjustment via unique locking collar design	Adjustment via insertion of shims between rotating assembly and volute casing
2	Coverplate	Four point attachment with additional O-ring between vacuum and pressure chambers	Two point attachment with single O-ring at the outer bore
3	Coverplate Removal	Pusher bolt holes and easy grip handle provided	Cover can be pried from volute with pry bars
4	Rotating Assembly	Interchangeable with T Series® Classic Rotating Assembly	Interchangeable with Super T Series® Rotating Assembly
6	Atmospheric Isolation	Double lip seal with atmospheric barrier allows for external monitoring	Single lip seal with vented pipe plug
6	Seal Oil Monitoring	Via clear sight gauge	Via removal of seal chamber vent plug
0	Rotating Assembly Removal	Eased by pusher bolt capability	Can be aided with pry bars
8	Volute Casing Heater	Discreet heater port permits heater insertion into discharge side of volute	Heater probe can be inserted into optional service tee inpump drain port





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