

PUMP CATALOGUE

WE SHOW STRENGTH

PRODUCTION.

Competence at
the highest level

TRADE.

Fast and
secure delivery

SERVICING.

Individual Solutions
with innovation & tradition

ACKNOWLEDGEMENTS

Published by:
TRIK-Pumpen GmbH

Photos:
TRIK-Pumpen GmbH
FLOWSERVE Flow Solutions Group
Grundfos GmbH
Jung Pumpen GmbH

We reserve the right to make changes.
Illustrations may differ from actual products.

CONTENTS

Page 3

ABOUT US HISTORY & FACTS

Page 4

YOUR ADVANTAGES

Page 6

OVERVIEW OF SERVICES

Page 8

RANGE

Page 12

GEARED PUMPS

Page 16

SIDE-CHANNEL PUMPS

Page 20

SPIRAL CASING PUMPS

PRODUCTION. TRADE. SERVICING.



TRIK PUMP FOR SHIPBUILDING AND INDUSTRY

Passion and the highest demands on our products make the difference: We don't just move liquids, we develop complete, particularly high quality, durable solutions for marine engineering and agriculture. Since 1933 we have expanded along with all the requirements of the sector and today we provide outstanding expertise that is known worldwide.

As well as manufacturing, pump repairs and the supply of spare parts form part of our service.

Qualified and committed employees and a systematically-maintained stock guarantee expert advice and short lead times.

The quality, speed and flexibility certified to DIN EN ISO 9001, and the best value for money give our customers the security of reliable systems.

We are also continuously developing our products further to increase the quality level reached and to exceed your expectations.

HISTORY

Since it was founded by the engineer Theodor Redlin in 1933, TRIK-Pumped GmbH has been concerned with the construction of fountains. In 1947 we first provided self-priming circulating pumps and pump systems that we constructed ourselves. Our passion for meeting the individual wishes of customers was at the forefront right from the start.

On 08 April 1985, the company changed from Adolf Rönnau TRIK-Pumpen GmbH to TRIK-Pumpen GmbH. Since then, the range was extended: In 1994, with the takeover of an additional manufacturing range for geared pumps (Orsta Hydraulik) and in 1996 for circulating pumps (Loewe/Grundfos).

Today, the product range extends from the hand pump to complex pump plant that is also custom-made and always adapted to your system. As specialised manufacturers of pumps and complete solutions, we are suppliers to reputable machine manufacturers and shipyards around the world.

YOUR ADVANTAGES



EVERYTHING UNDER ONE ROOF

Powerful pumps, an extensive range, converted to individual requirements, experienced staff, rapid and comprehensive servicing with worldwide complete logistics – we will provide you with everything you need for maximum customer satisfaction.



EXPERTISE IN THE SECTOR OVER DECADES

Since 1933, our expertise has developed along with the changing requirements of the sector. Reputable machine manufacturers and shipyards around the world have trusted us in this.



INDIVIDUAL ADJUSTMENTS TO THE PUMPS

If your range does not fit the requirements you have, we also manufacture your individual pumps in small runs. We would be happy to advise you on specifications to suit your needs.



OPTIMISED PROCESSES - EVERYTHING IN HARMONY

Our staff with many years of experience will convince you to choose us, but we also have finely-tuned internal communications. In this way you receive excellent advice and your wishes will be attended to promptly.



RAPID LEAD TIMES

A large stock and an efficient stock logistics system allow us to fulfil your orders in the fastest possible times. Even if some of the spare parts are not in stock, they can be requested and delivered very quickly.



WORLDWIDE DELIVERY

You will be impressed that our delivery is not only rapid but worldwide: We look after the entire logistics chain including customers and all regulations, so that you pumps get to where you need them as fast as possible.



QUALITY

Since 2000, our company has been certified to the ISO 9001 quality standard. Reliability, flexibility and on-time delivery are our utmost priority.

**FIND OUT FOR YOURSELF!
WWW.TRIK-PUMPEN.DE**

OVERVIEW OF SERVICES

1

PUMP CONSTRUCTION

As a pump manufacturer with experience over generations we have outstanding knowledge of the construction of particularly high quality and durable pumps.

2

COMPLETE SOLUTIONS

We provide the solution that meets your safety requirements: unit assemblies exactly to your needs and honed to your system.

3

WHOLESALE PUMP SUPPLIES

Our large stock provides you with a comprehensive range: From waste water to geared pumps, accessories and spare parts, everything can be delivered as quickly as possible.

4

SPARE PARTS SERVICE

Our most comprehensive range guarantees you a rapid delivery of spare parts and therefore the shortest possible downtimes for your plant.

To be able to process your enquiry as quickly as possible, we ask that you have the rating plate of your pump or a photograph of it with you when your call. That way you have all the information we need to hand.



Pump Model — Modell:

Serial Number — Nr.:



Serial Number — Pump No.:

Pump — Type:

Flow rate/hour — m³/h bar

Speed — Rpm kW

Power —

Max. supply pressure —

5

HIGH QUALITY REQUIREMENTS

Our quality assurance system, certified to DIN EN ISO 9001, guarantees you a continuous reliability of our TRIK pumps.

6

ADVICE AND LOGISTICS

We advise you on all questions to do with pumps, maintenance and repair and take on delivery worldwide including all import conditions.

PLEASE CONTACT US

office@trik-pumpen.de / TEL.: +49 (0)431 - 20 08 89-0

7

TEST RUNS

Each pump that leaves our production department, and also each unit is tested by us beforehand to the most precise requirements and, on request, can be given a test certificate or acceptable by reputable bodies.

Tested and permitted by:



RANGE



INTERNAL GEAR PUMPS

0.063 – 70 m³/h
Maximum Pressure: 16 bar

Single- or dual-stream internal gear pumps with or without adjustable overflow valve for horizontal or vertical assembly. Some sizes can be supplied dual-stream For conveying oils, adhesives, paints, solvents, chemicals, bitumen and other viscous media in the mechanical engineering and ship-building sectors as well as in the chemical and foodstuff industries.

Various constructions,
see page 12.



EXTERNAL GEAR PUMPS

0.4 – 10 m³/h
Maximum Pressure: 10 bar

Single-stream external gear pumps without overflow valve for horizontal assembly. The shaft is sealed with stuffing-box packing. A grey cast iron version is available for conveying neutral media. A chromium steel version can be supplied for corrosive media.



SIDE-CHANNEL PUMPS

0.4 – 36 m³/h
Maximum Pressure: 10 bar

Self-priming centrifugal pumps with a split case design for horizontal assembly. The shaft is sealed using stuffing-box packing, or alternatively using an axial face seal. Used for pumping pure, hot and cold water, and similar liquids. There is a version manufactured from bronze for pumping seawater.



SPIRAL CASING PUMPS

0.05 m³/h – 700 m³/h
Maximum Pressure: 10 bar

Single- or multi-stage centrifugal pumps, normal or self-priming for horizontal or vertical assembly. Used for pumping pure, hot and cold water, and similar liquids. The shaft is sealed using stuffing-box packing, or alternatively using an axial shaft seal. There is a version manufactured from bronze for pumping seawater.



PISTON PUMPS

1 m³/h to 45 m³/h
Maximum pressure: 6 bar

Piston pumps are used anywhere water needs to be pumped easily and at a reasonable cost. They are used to supply water to houses and flats, for commercial and agricultural operations, for watering gardens and other productive land, for drinking water and sanitary water supply and as bilge pumps on ships.



SCREW PUMPS

0.3 m³/h – 2000 m³/h
Maximum Pressure: 30 bar

Twin- or triple-screw pumps are self-priming, rotating positive-displacement pumps suitable for moving low viscosity media such as petrol, hydrocarbons, seawater. Liquids with maximum viscosities such as bitumen, bitumen-gel and molasses can also be conveyed.

**WE WOULD BE HAPPY TO ADVISE YOU –
TEL.: +49 (0)431 - 20 08 89-0**

RANGE



ECCENTRIC SCREW PUMPS

0.1 m³/h – 220 m³/h
Maximum Pressure: 24 bar

Suitable for pumping all liquids, particularly fluids with viscosities or consistencies on the yield point limit.

Media with fibrous materials or with maximum solids content, and mixtures containing gas or air can also be pumped with low pulsation and turbulence.



DIAPHRAGM PUMPS

2 m³/h – 10 m³/h
Maximum Pressure: 3 bar

Driven by compressed air – suitable for pumping all liquids, especially for highly viscous media with solid particles, abrasive substances, highly flammable materials and liquids with a high gas content. Self-priming, even when dry.



SUBMERSIBLE PUMPS

0.2 m³/h – 130 m³/h
Maximum Pressure: 2 bar

Vertically, fully-floating submersible pumps block construction. Can be used anywhere you need to pump tanks, shafts or vats empty.

Usage:

Removing water from cellars, and building trenches, disposal of dirty water and much more.



UNDERWATER PUMPS

0.2 m³/h – 280 m³/h
Maximum Pressure: 40 bar

For conveying drinking, untreated and sea water and mineral and thermal water without abrasive components or components with long fibres. For water supplies, watering systems, lowering groundwater, increasing pressure and other industrial applications.



WASTE WATER AND SEWAGE PUMP

2 m³/h – 160 m³/h
Maximum Pressure: 3 bar

Channel centrifugal pump with fibre-cutting device for pumping unpurified waste water.

Usage:
Emptying sewage and waste water tanks or vats on ships or in utilities.



INLINE PUMPS

2 m³/h – 700 m³/h
Maximum Pressure: 6 bar

Single-stage, low-pressure centrifugal pumps with inline design, with opposing suction and pressure pipes of the same nominal width for pumping heating, fresh and grey water without solid, long-fibre or abrasive contents.

**WE WOULD BE HAPPY TO ADVISE YOU –
TEL.: +49 (0)431 - 20 08 89-0**

GEARED PUMPS

SINGLE OR DUAL STREAM



Single- or dual-stream internal gear pumps with or without adjustable overflow valve for horizontal or vertical assembly. Some sizes can be supplied dual-stream. For conveying oils, adhesives, paints, solvents, chemicals, bitumen and other viscous media in the mechanical engineering and ship-building sectors as well as in the chemical and foodstuff industries.



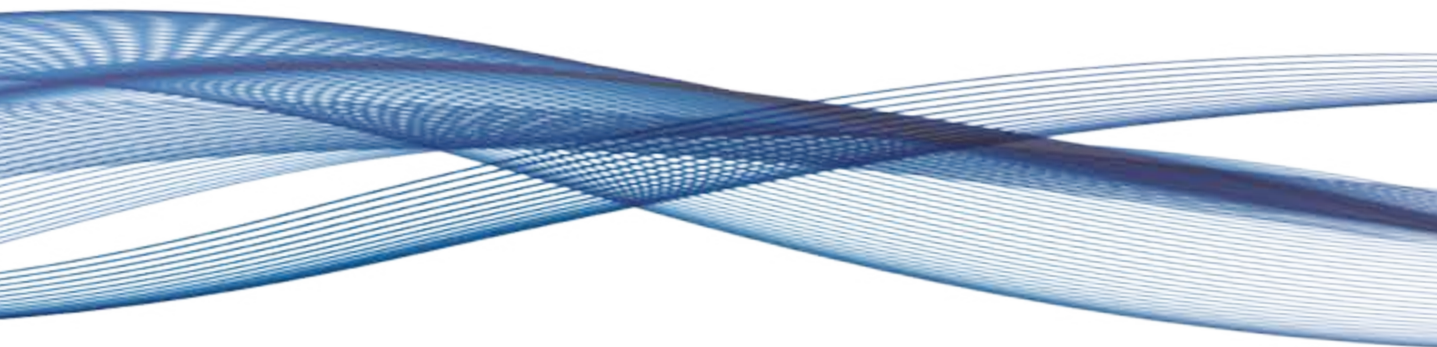
GEARED PUMP SINGLE STREAM – SERIES A

(0.063 m³/h – 0.25 m³/h, 16 bar)

Series	Size	Nominal flow rate [m ³ /h]	Rated pressure [bar]	Speed range [RPM]	Recorded rated power of pump [kW] ¹	Pressure in Suction pipe [bar]	Size Suction pipe	Total noise pressure level [dB] ²
A	0.063	0.063	16	500 - 1450	0.11	-0.35	R 1/2"	67
Aü	0.1	0.1	16	500 - 1450	0.17	bis	R 1/2"	67
Af	0.16	0.16	16	500 - 1450	0.23	0.5	R 3/4"	67
Afü	0.25	0.25	16	500 - 1450	0.33		R 3/4"	67

¹ Relative to a conveying fluid with a kinematic viscosity of 50×10^{-6} m²/s and a density of 890 kg/m³

² The values are guidelines under the following conditions: Medium temperature 50°C and 1 m distance between recordings



GEARED PUMP SINGLE STREAM – SERIES A

(0.4 m³/h – 2.5 m³/h, 16 bar)

Series	Size	Nominal flow rate [m ³ /h]	Rated pressure [bar]	Speed range [RPM]	Recorded rated power of pump [kW] ¹	Pressure in Suction pipe [bar]	Size Suction pipe	Total noise pressure level [dB] ²
A	0.4/16	0.4	16	1450	0.39	-0.35	R 1/2"	70
Aü	0.63/16	0.63	16	1450	0.55		R 1/2"	70
Af	1.0/16	1.0	16	1450	0.91	bis / up to	R 3/4"	70
Afü	1.6/16	1.6	16	1450	1.5		R 3/4"	70
	2.5/16	2.5	16	1450	2.3	1.0	R 1"	73

¹ Relative to a conveying fluid with a kinematic viscosity of 50×10^{-6} m²/s and a density of 890 kg/m³

² The values are guidelines under the following conditions: Medium temperature 50°C and 1 m distance between recordings

GEARED PUMP SINGLE STREAM – SERIES B

(4.0 m³/h – 63.0 m³/h, 10 bar)

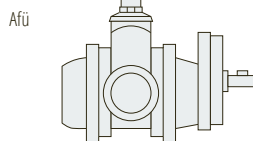
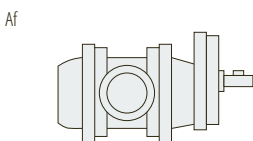
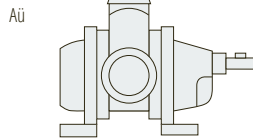
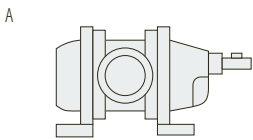
Series	Size	Nominal flow rate [m ³ /h]	Rated pressure [bar]	Speed range [RPM]	Recorded rated power of pump [kW] ¹	Pressure in Suction pipe [bar]	Size Suction pipe	Total noise pressure level [dB] ²
B	4.0/10	4	10	1450	2.4	bis	DN 32	74
Bü	6.3/10	6.3	10	1450	3.9	0.5	DN 40	74
Bf	10/10	10	10	1450	4.3		DN 50	74
Bfü								
B	16/10	16	10	1450	7.2	-0.35	DN 65	65
Bü	25/10	25	10	1450	25/10	bis	DN 65	65
Bf	40/10	40.0	10	1450	40/10	0.5	DN 80	85
Bfü	63/10	63	10	1450	11.2		DN 125	85

¹ Relative to a conveying fluid with a kinematic viscosity of 50 x 10⁻⁶ m²/s and a density of 890 kg/m³

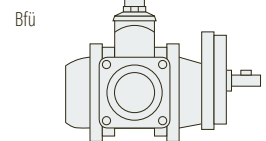
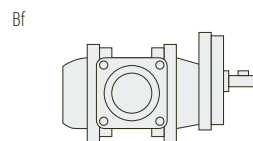
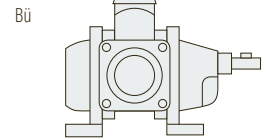
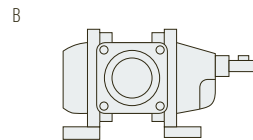
² The values are guidelines under the following conditions: Medium temperature 50° C and 1 m distance between recordings

SINGLE STREAM GEARED PUMPS

Series A

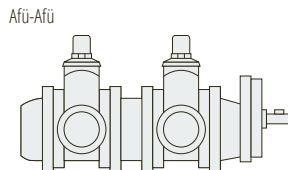
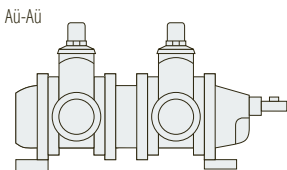


Series B

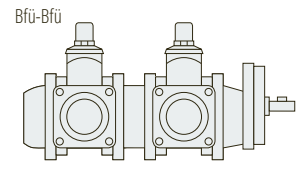
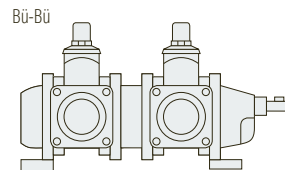


DUAL-STREAM GEARED PUMPS

Series A



Series B



DUAL-STREAM GEARED PUMP (SAME FLOW RATES) – SERIES A AND B

(0.4 m³/h – 25 m³/h, 10 bar – 6.3 bar)

Series	Size	Nominal flow rate [m ³ /h]	Rated pressure [bar]	Speed range [RPM]	Recorded rated power of pump [kW] ¹	Pressure in Suction pipe [bar]	Size Suction pipe	Total noise pressure level [dB] ²
Aü-Aü	0.4/10	0.4	10	1450	0.46	-0.35	R 1/2"	70
Aü-Aü	0.63/10	0.63	10	1450	0.74		R 1/2"	70
Aü-Aü	1/10	1.0	10	1450	1.2	bis / up to	R 3/4"	70
Afü-Aü	1.6/10	1.6	10	1450	1.9		R 3/4"	70
Afü-Aü	2.5/10	2.5	10	1450	3.1	0.5	R 1"	73
Bü-Bü	4.0/6.3	4	6.3	1450	3.4	-0.35	DN 32	74
Bü-Bü	6.3/6.3	6.3	6.3	1450	5.5	bis / up to	DN40	74
Bfü-Bü	10/6.3	10	6.3	1450	6.4		DN50	74
Bfü-Bü	16/6.3	16	6.3	1450	10.7	0.5	DN65	79
Bfü-Bü	25/6.3	25	6.3	1450	16.7		DN65	79

¹ Relative to a conveying fluid with a kinematic viscosity of 50 x 10⁻⁶ m²/s and a density of 890 kg/m³

² The values are guidelines under the following conditions: Medium temperature 50° C and 1 m distance between recordings

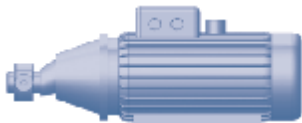
INSTALLATION OPTIONS FOR GEARED PUMPS WITH ELECTRIC MOTOR



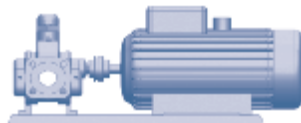
Pump with bracket and electric motor – vertical installation



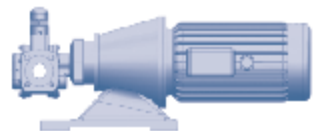
Pump with portable lantern and electric motor – Motor above pump



Pump with intermediate lantern and electric motor



Pump with baseplate and electric motor



Pump with bracket and electric motor – horizontal installation

SIDE-CHANNEL PUMPS

SELF-PRIMING CENTRIFUGAL PUMPS



Self-priming centrifugal pumps with a split case design for horizontal assembly. The shaft is sealed using stuffing-box packing, or alternatively using a axial face seal.

Used for pumping pure, hot and cold water, and similar liquids. There is a version manufactured from bronze for pumping seawater.

SIDE-CHANNEL PUMPS

(Flow rate 0.3 – 1.2 m³/h)

Pump Model		0.3		0.6		0.9		1.2		Pipe connection [inch] / [mm]
		Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	
Material Design I / II	Material Design III									
T /01		1.4	0.16	1.1	0.14	0.8	0.11	0.3	0.08	R 3/4"
T 121	T 131	1.9	0.23	1.7	0.19	1.5	0.18	1.2	0.17	R 1"
T 122	T 132	3.7	0.39	3.4	0.32	3	0.31	2.4	0.28	R 1"
T 123	T 133	5.6	0.56	5.1	0.49	4.5	0.44	3.6	0.4	R 1"
T 124	T 134	7.5	0.72	6.8	0.63	6.0	0.56	4.8	0.51	R 1"
T 151	T 161			1.9	0.37	1.7	0.33	1.6	0.31	R 1"
T 152	T 162			3.9	0.66	3.6	0.6	3.3	0.58	R 1"
T 153	T 163			5.9	0.88	5.4	0.81	5	0.77	R 1"
T 154	T 164			7.7	1.2	7.1	1.2	6.6	1.03	R 1"
T 11/1	T 15/1			4.0	0.7	3.5	0.6	3	0.55	R 1 1/4"
T 11/2	T 15/2			7.9	1.4	7	1.3	6.0	1.1	R 1 1/4"
T 11/3	T 15/3			11.8	2.2	10.5	1.9	9.0	1.7	R 1 1/4"
T 11/4				15.7	2.8	14	2.5	12.0	2.3	32 mm
T 11/5				19.6	3.6	17.5	3.1	15.0	2.8	32 mm
T 11/6				23.5	4.3	21.0	3.8	18.0	3.4	32 mm

SIDE-CHANNEL PUMPS

(Flow rate 0.9 – 3.0 m³/h)

Pump Model		0.9		1.5		2.4		3.0		Pipe connection [inch] / [mm]
		Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	
Construction I / II	Construction III									
T 21/1	T 25/1	4.2	0.88	3.8	0.81	3.1	0.66	2.5	0.62	R 1 1/4"
T 21/2	T 25/2	8	1.77	7.5	1.6	6.0	1.3	5	1.25	R 1 1/4"
T 21/3	T 25/3	11.8	2.73	11.2	2.5	9.0	2	7.5	1.9	R 1 1/4"
T 21/4				14.7	3.6	11.9	2.9	9.9	2.6	32 mm
T 21/5				18.2	4.6	14.8	3.8	12.3	3.3	32 mm
T 21/6				21.7	5.6	17.7	4.7	14.7	4.1	32 mm

SIDE-CHANNEL PUMPS

(Flow rate 1.5 – 3.0 m³/h)

Pump Model		1.5		2.4		3.0		Pumping head [bar]	Pp to [kW]	Pipe connection [inch] / [mm]
		Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]			
Material Design I / II	Material Design III									
T 0/1										R 3/4"
T 121	T 131	0.9	0.14							R 1"
T 122	T 132	1.8	0.25							R 1"
T 123	T 133	2.7	0.35							R 1"
T 124	T 134	3.6	0.45							R 1"
T 151	T 161	1.5	0.29	0.8	0.22					R 1"
T 152	T 162	3.1	0.51	1.6	0.37					R 1"
T 153	T 163	4.6	0.74	2.4	0.51					R 1"
T 154	T 164	6.1	0.96	3.2	0.66					R 1"
T 11/1	T 15/1	2.6	0.48	1.5	0.37	1.0	0.33			R 1 1/4"
T 11/2	T 15/2	5.2	0.46	3	0.74	2.0	0.66			R 1 1/4"
T 11/3	T 15/3	7.8	1.5	4.5	1.1	3.0	1.0			R 1 1/4"
TR 11/4		10.4	2.0	6.0	1.5					32 mm
TR 11/5		13.3	2.5	7.5	1.9					32 mm
TR 11/6		15.8	3.0	9.0	2.2					32 mm

(Flow rate 3.6 – 7.5 m³/h)

Pump Model		3.6		4.5		6.0		7.5		Pipe connection [inch] / [mm]
		Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	
Material Design I / II	Material Design III									
T 21/1	T 25/1	2.0	0.6	1.3	0.44					R 1 1/4"
T 21/2	T 25/2	4.0	1.05	2.5	0.9					R 1 1/4"
T 21/3	T 25/3	6.0	1.6	3.7	1.3					R 1 1/4"
T 21/4		7.9	2.2	4.8	1.8					32 mm
T 21/5		9.8	2.8	6	2.2					32 mm
T 21/6		11.7	3.4	7.2	2.7					32 mm
T 31/1	T 35/1	2.7	1.1	2.3	1.0	1.5	0.74	0.6	0.51	R 1 1/2"
T 32/2	T 35/2	5.3	2.2	4.5	1.9	3	1.4	1.2	1.1	R 1 1/2"
T 31/3	T 35/3	7.8	3.2	6.7	2.9	4.5	2.1	1.8	1.6	R 1 1/2"
TR 31/4		10.2	4.2	8.7	3.9	6.0	2.7	2.4	2.2	32 mm
TR 31/5		12.6	5.3	10.7	4.8	7.5	3.4	3.0	2.7	32 mm
TR 31/6		15.0	6.3	12.7	5.8	9.0	4.1	3.5	3.3	32 mm

(Flow rate 6.0 – 10.5 m³/h)

Pump Model		6.0		7.5		9.0		10.5		Pipe connection [inch] / [mm]
		Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	Pumping head [bar]	Pp to [kW]	
Material Design I / II	Material Design III									
T 42/1	T 45/1	3.5	1.9	2.8	1.6	2.1	1.3	1.4	1.1	40 mm
T 42/2	T 45/2	6.8	3.6	5.4	3.1	4.0	2.5	2.6	2.1	40 mm
T 42/3	T 45/3	10.0	5.4	8.0	4.6	5.8	3.8	3.8	3	40 mm
T 42/4	T 45/4	13	7.2	10.6	6.1	7.7	5.1	5.0	4.1	40 mm

(Flow rate 12 m³/h)

		12.0								
Pump Model		Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pipe connection
Material Design I / II	Material Design III	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[inch] / [mm]
T 42/1	T 45/1	0.7	0.9							40 mm
T 42/2	T 45/2	1.4	1.6							40 mm
T 42/3	T 45/3	2.1	2.5							40 mm
T 42/4	T 45/4	2.8	3.3							40 mm

(Flow rate 12.0 – 21.0 m³/h)

		12.0		15.0		18.0		21.0		
Pump Model		Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pipe connection
Material Design I / II	Material Design III	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[inch] / [mm]
T 51/1	T 55/1	3.3	3.7	2.7	3.2	2.0	2.7	1.3	2.3	50 mm
T 51/2	T 55/2	6.6	7.3	5.3	6.3	4.0	5.3	2.6	4.5	50 mm
T 51/3	T 55/3	9.9	10.3	7.9	9.4	6.0	7.9	3.9	6.7	50 mm

(Flow rate 18.0 – 27.0 m³/h)

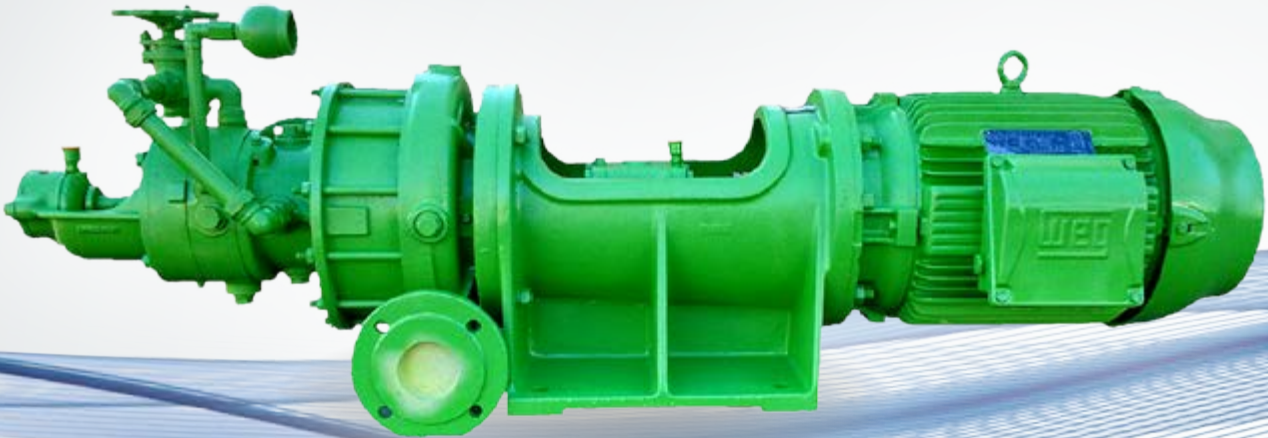
		18.0		21.0		24.0		27.0		
Pump Model		Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pipe connection
Material Design I / II	Material Design III	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[inch] / [mm]
T 71/1		3.4	6.6	3.0	6	2.6	5.3	2.1	4.7	70 mm
T 71/2		6.0	11.4	5.4	10.6	4.8	9.8	4.1	9	70 mm
T 71/3		9.0	17	8.1	15.8	7.2	14.7	6.2	13.5	70 mm

(Flow rate 30.0 – 36.0 m³/h)

		30.0		33.0		36.0				
Pump Model		Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pumping head	Pp to	Pipe connection
Material Design I / II	Material Design III	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[bar]	[kW]	[inch] / [mm]
T 71/1		1.7	4.1	1.2	3.7	0.7	3.3			70 mm
T 71/2		3.4	8.1	2.4	7.3	1.4	6.5			70 mm
T 71/3		5.2	12.2	3.6	11.0	2.1	9.8			70 mm

SPIRAL CASING PUMPS

SINGLE AND MULTI-STAGE



Single- or multi-stage centrifugal pumps, normal or self-priming for horizontal or vertical assembly. Used for pumping pure, hot and cold water, and similar liquids. The shaft is sealed using stuffing-box packing, or alternatively using an axial shaft seal.

There is a version manufactured from bronze for pumping seawater.



SPIRAL CASING PUMPS – CONSTRUCTION TN

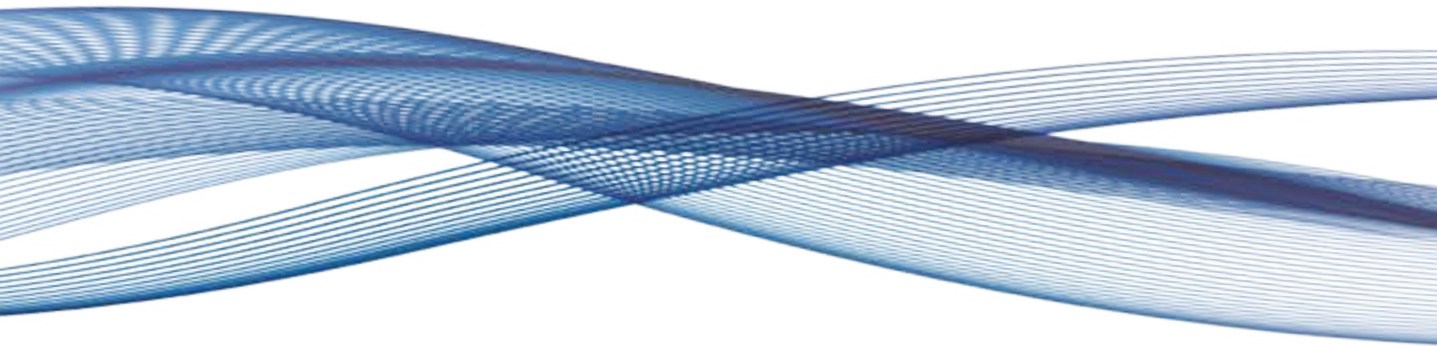
Normal-Priming Single-Stage Spiral Casing Pump

AREA OF APPLICATION TN 40-200

- Conveying of fresh cooling water to large motors

CONVEYING MEDIA TN 40-200

Pure or slightly brackish liquids without abrasive and solid or long-fibre components, that neither mechanically nor chemically attack the pump materials.



SPIRAL CASING PUMPS – CONSTRUCTION FD, K, KL, VKW, VKLW

AREA OF APPLICATION – FD, K, KL, VKW, VKLW

- All kinds of water supply systems
- Watering, providing and clearing water
- Emptying and filling tanks and vats
- Recirculating hot or cold water and air-conditioning systems
- Conveying condensate and brine
- Fresh water for marine navigation
- Conveying swimming pool water
- Grey water supply

CONVEYING MEDIA – FD, K, KL, VKW, VKLW

Pure or slightly brackish liquids without abrasive and solid or long-fibre components, that neither mechanically nor chemically attack the pump materials.

SPIRAL CASING PUMPS – CONSTRUCTION FD, K, KL, VKW, VKLW

BAUART

- FD** Normal-priming, horizontal spiral casing pump, single or two-stage
- K** Normal-priming, horizontal spiral casing pump, single or two-stage with radial intake elbow.
- KL** As for construction K, but self-priming through fitted air stage, for pure liquids.
The liquid conveyed after the intake process by the air stage must either run freely or be guided by manual switching of a 3-way valve with recirculation pipe back to the suction chamber of the pump.
- VKw** Normal-priming, vertical spiral casing pump, single or two-stage with wall lantern.
- VKLw** As for VKw design, but self-priming through fitted air stage

MOUNTING

Greased grooved ball-bearing in strong bearing housing for mounting the pump shaft. Sluicing rings on the shaft prevent the ingress of leakage water into the bearing housing.

SHAFT SEAL

Uncooled stuffing box seal for temperatures up to 105°C.

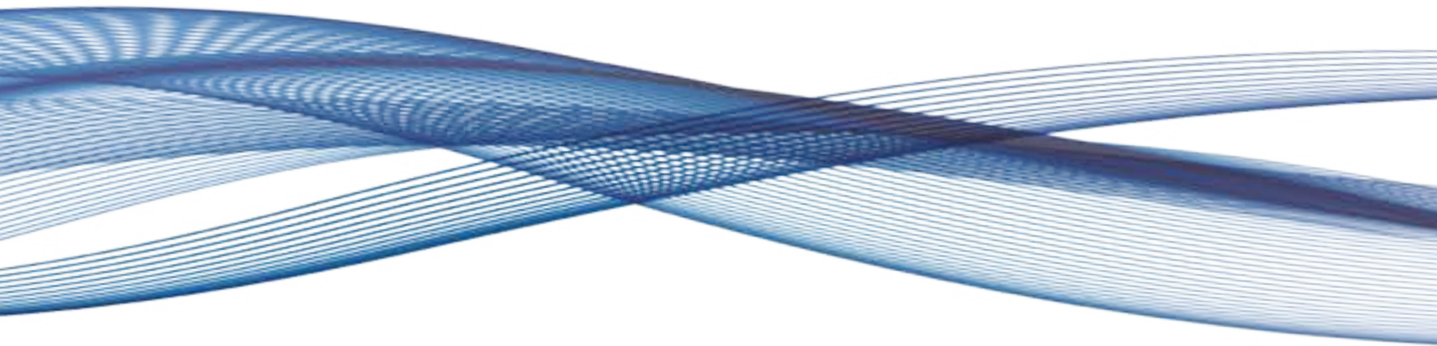


OPERATING DATA FOR SPIRAL CASING PUMPS

(Construction FD, K, KL, Vkw/VKLw)

Construction	FD	K/KL	VKw/VKLw
Flow rate Q [m³/h] to	650	250	250
Pumping pressure H [bar] to	8.0	9.0	9.0
Max. temperature of medium t [°C]	105	105	105
Supply pressure [bar] to	-	4.0	-
End pressure Pd [bar]	-	10.01	-
Speed max. 2900 RPM	101	61, 81, 101	61, 81, 101
Speed max. 1750 RPM	101/2, 121, 150, 170, 121/2	61/2, 81/2, 101/2, 121/2, 121	61/2, 81/2, 101/2, 121/2, 121
Direction of rotation	Seen from the drive side: clockwise		

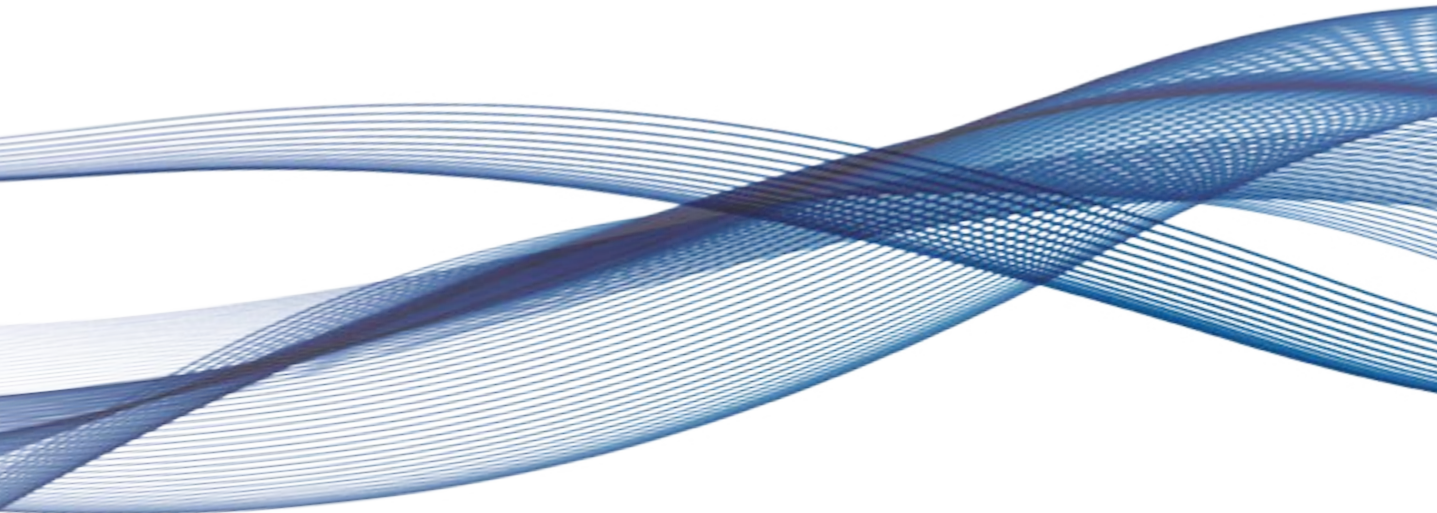
¹ The total of the max. supply pressure and pumping head in the zero flow point must not exceed the value mentioned.



MOTOR OPERATING DATA

(Construction FD, K, KL, Vkw/VKLw)

K and KL	Suction pipe	Horizontal clockwise, seen from the suction pipe
	Pressure pipe	Vertical upwards / tangential
VKw and VKLw	Suction pipe	Anticlockwise
	Pressure pipe	Clockwise from the front, seen on the wall-mounted pump (normal design).
Special designs with pipe adjustment offset by 90° are possible. Stacked is also possible for two-stage pumps.	-	4.0
Flange	Connection size	To DIN 2501 / DIN EN 1092-1, PN10
Coupling	Flexible coupling	
Type of current	Rotary current	
Voltage	Multiple voltage range 220-240/380-415 V (50 Hz) // 460 V (60 Hz) to size 100 380-415/660 V (50 Hz) // 460 V (60 Hz) from size 112	
Type of protection	IP54	
Frequency	50 Hz or 60 Hz	
Design	Made by a German brand, to IEC, powers and dimensions to DIN 42673. Drive from DC motor or combustion engine available on request.	



TRIK-PUMPEN GmbH

Braunstraße 14-18
24145 Kiel-Wellsee

Tel.: +49 (0) 431 - 20 08 89-0
Fax: +49 (0) 431 - 20 08 89-99

office@TRIK-Pumpen.de