

VERTICAL NON-METALLIC CENTRIFUGAL PUMPS, SEALLESS, DRY RUN SAFE

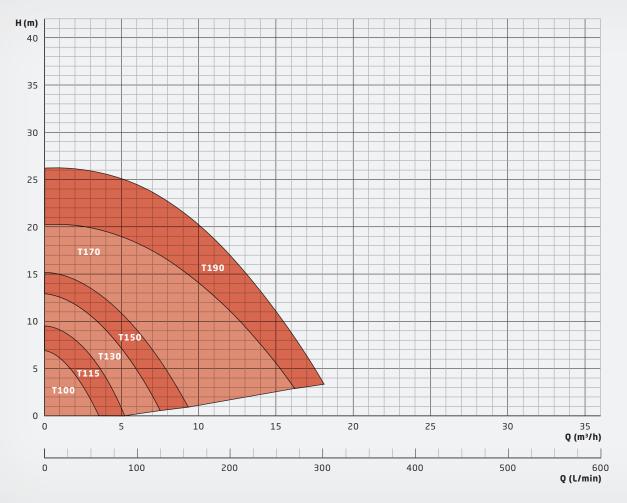


Vertical non-metallic centrifugal pumps, sealless, dry run safe

Housing and impeller materials:PP, PVDFElastomers:EPDM, FKM (e.g. Viton®), FEP, FFKM (e.g. Kalrez®)

The T series features a vertical shaft extension that directly drives the impeller. The rotating shaft runs completely contact- and abrasion-free inside the housing ("cantilever" design). This design concept eliminates the need for shaft seals and additional bearings. Optionally, the T series can be ordered with a shaft seal as a vapour barrier.

PERFORMANCE CHART





Advantages:

- Absolutely dry run safe because of contact-free shaft and impeller rotation
- No abrasion into the fluid, therefore well-suited for high-purity applications
- Maintenance-free operation as no wearing parts such as slide bearings or mechanical seals

Solid particles up to 3 mm in size and 10 % volume are allowed. The maximum viscosity is 150 mPas; the maximum allowed temperature is 95 °C.



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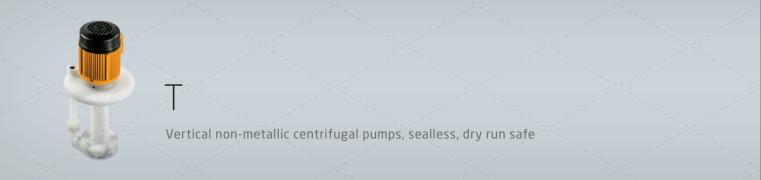
DESCRIPTION

Characteristics	Non-metallic, chemical resistant, vertical sealless centrifugal pump, dry run safe
Features	 Absolutely dry run safe because of contact-free shaft and impeller rotation Maintenance-free operation as no wearing parts such as slide bearings or mechanical seals Available with extension tubes in different lenghts to individually adjust the immersion depth Available with inlet strainer to prevent rough dirt and objects from entering the pump housing All wetted parts made of high-quality, corrosion-resistant plastics (PVDF or PP) Threaded connections (ISO 228-1) as standard Optionally available with flange connections (from size 130) Universally applicable, low-noise and compact close-coupled design Corrosion resistant motor finish
Fields of application	Installation in return vessels, tank tops, container lids, pump sumps, etc. Delivery of acids, bases, lye or other corrosive liquids. Useful in applications, where dry running of the pump cannot be prevented at times.
	 For example in the following applications: Plating and surface coating Semiconductor technology and solar cell production PCB and electronics manufacturing Wastewater and fresh water treatment Laboratory equipment and medical technology Emission controls and gas scrubbers Battery production and energy storage High-purity applications, demineralized water, ultrapure water Etc.

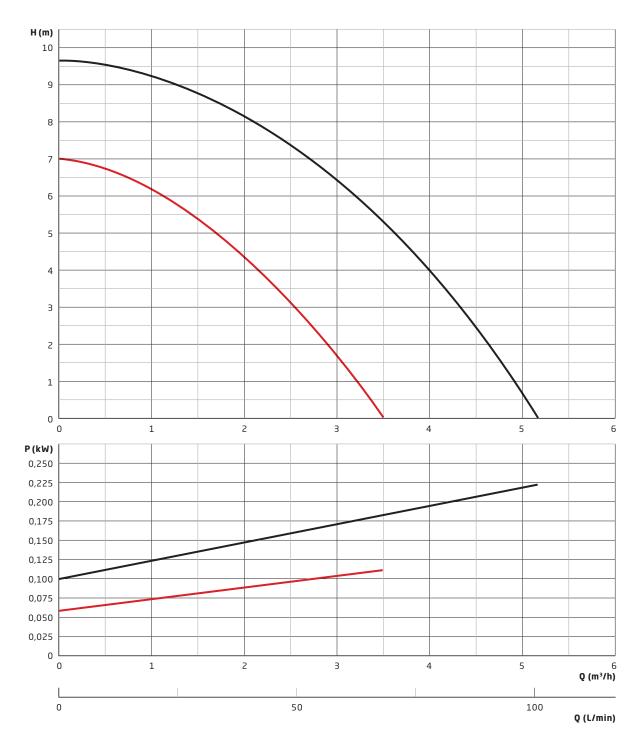
TYPES

Standard motors (available from stock)• Three-phase motors: D230/Y400 V-3ph @ 50Hz, D277/Y480 V-3ph @ 60Hz, IP 55, InsCl. F, also with PTC • All motors from 0.75 kW have energy efficiency class IE3 • Single-phase motors (up to 1.1 kW: 230 V-1ph, 50/60 Hz, IP 55, InsCl F) • ATEX-certified motors (temperature rating T3)Special motors (available on re- quest, for example)• Special voltages and frequencies • ATEX-certified motors (temperature rating T4 or T5) • Three-phase motors with integrated drive/frequency converter • Four-pole motors with 1450 rpm @ 50Hz/1650 rpm @ 60 Hz • UL- and CSA-certified motors • Special insulation classes, e.g. tropical insulation • Multi-voltage, e.g. D220-290/Y380-500 V, 50 Hz; D220-332/Y380-575 V, 60 Hz • Direct-current motors (DC or BLDC)Operating conditions• Max. flow rate: up to 30m³/h • Max. delivery head: up to 28m • Liquid temperature: -5 to 95 °C (PVDF), resp. 0 to 80 °C (PP) • Ambient temperature: -10 to 40 °C, higher temperatures on request	Characteristics	 Pump housing: PVDF, PP Elastomers: FKM, EPDM, FEP, FFKM 				
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• Pumps can be adapted to high-density liquids (up to 2.0)		· Pumps can be adapted to high-density liquids (up to 2.0)				
• T series pumps can run dry for unlimited time (except special versions with shaft seals)		• T series pumps can run dry for unlimited time (except special versions with				

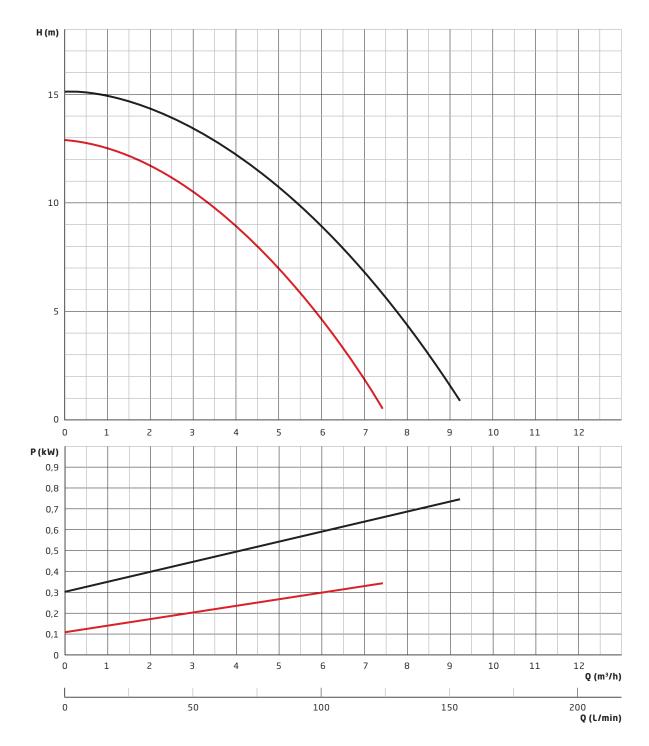
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PERFORMANCE CURVE **T 100** (0.12 kw) / **T 115** (0.25 kw)



PERFORMANCE CURVE **T 130** (0.55 kW) / **T 150** (0.75 kW)

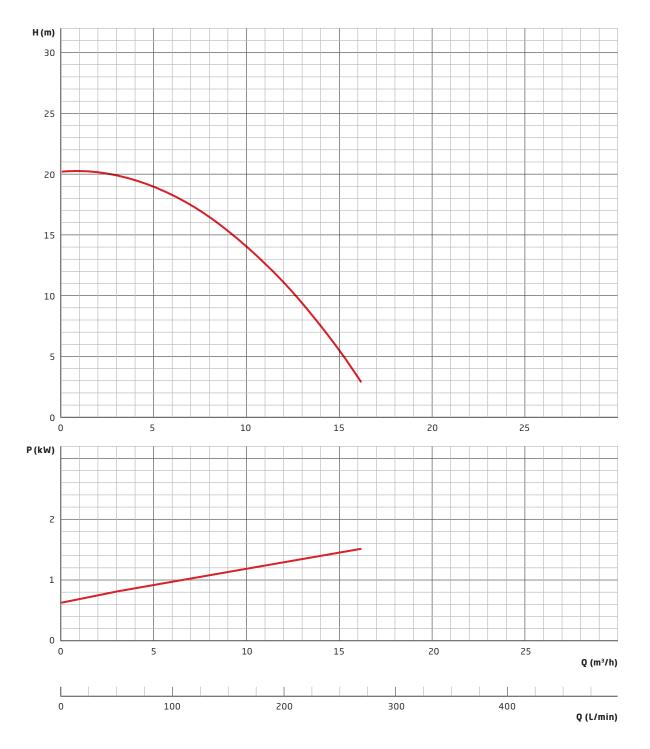


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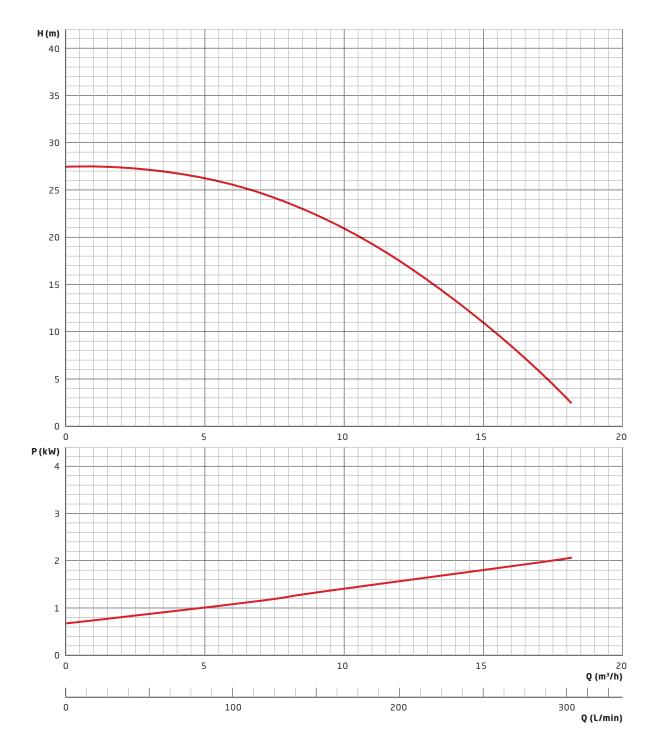


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PERFORMANCE CURVE **T 170** (1.5 kw)



PERFORMANCE CURVE **T 190** (2.2 kw)



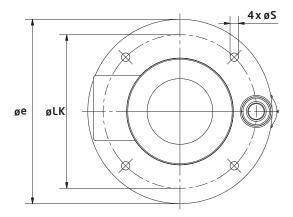
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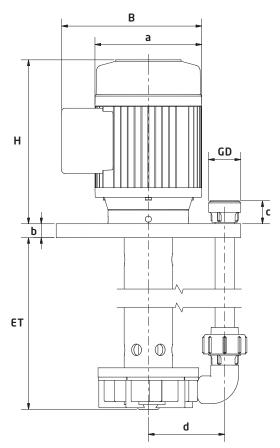


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DIMENSIONS

type	thread	DN	ET	B (mm)	H (mm)	LK (mm)	S (mm)	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)
100	G1"	15	200	152	180	150	11	111	18	30	83	220
115	G1¼"	20	200/300/400	165	183	170	11	126	18	37	97	230
130	G1¼"	20	200/300/400	182	216	200	11	139	18	30	99	240
150	G1¼"	20	300/400/500	196	228	225	11	157	22	30	113	265
170	G1½"	25	400/600/800	212	304.5	280	13	175	22	55	130	320
190	G1½"	25	400/600/800	212	339	280	13	175	22	55	141	330





FITTINGS

SCHMITT offers an extensive range of fittings to facilitate the installation of the pump into your system:

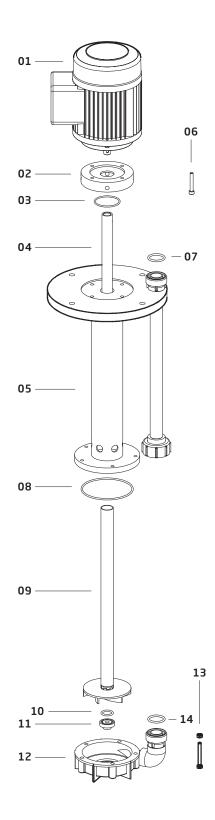
- $^{\rm \cdot}$ flange adaptors
- \cdot hose connectors
- · welding connectors for stainless steel pipes
- · reducers

- \cdot NPT threaded adaptors
- \cdot inlet strainers for vertical pumps
- \cdot extension pipes for vertical pumps



SPARE PARTS LIST

Position	Description	Available materials
01	Motor	
02	Extension flange	PP
03	0-ring	FKM, EPDM, FEP, FFKM
04	Shaft, slotted pin, featherkey	Steel, stainless steel
05	Support tube	PP, PVDF
06	Cylinder screw, washer, nut	V4A
07	O-ring pressure side	FKM, EPDM, FEP, FFKM
08	Housing seal	FKM, EPDM, FEP, FFKM
09	Impeller with shaft sleeve	PP, PVDF
10	0-ring	FKM, EPDM, FEP, FFKM
11	Threaded cap	PP, PVDF
12	Pump housing	PP, PVDF
13	Hexagon bolt, nut	PP, PVDF
14	0-ring	FKM, EPDM, FEP, FFKM





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