



**TSURUMI PUMP**

# 100BYZK 3-phase 50Hz

BYZK-Series 100mm discharge, dry installation  
Sewage pump with closed  
single-channel-impeller

A closed single-channel impeller ensures, that sewage water containing sludge and fibrous substances can be pumped efficiently without clogging.



**Closed single-channel impeller**

The channel impeller prevents clogging by solid-matters and fibrous components in the medium.

**Optional Accessories:**

- duck-foot for guide-rails:
    - guide support
    - duck-foot
  - Bend
  - Stand set for free-standing version
- Optionally available with guide-rail-installation kit.

**Available options**

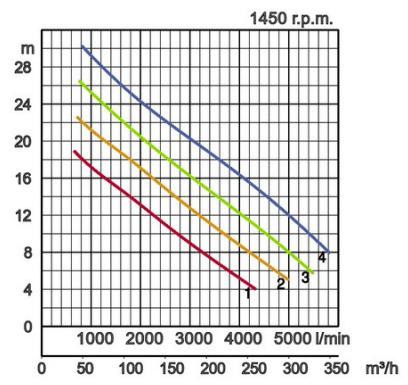
- Explosion proof version
- Oil sensor
- All pumps can be operated with soft-starter and frequency-converter



## Specifications:

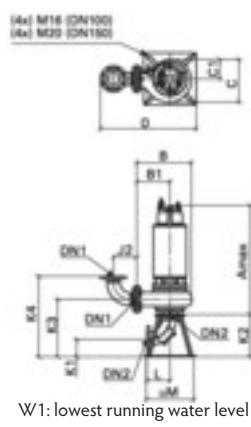
Model	Colour code curve	Bore mm	Power output kW	Phases	r.p.m.	Head max. m	Capacity max. l/min	Starting method	Dry weight kg without cable	Impeller passage mm
100BYZMK412.2L	1	100	12,2	3	1450	18,9	4333	star/delta	219,0	100
100BYZMK412.2	2	100	12,2	3	1450	22,5	5000	star/delta	219,0	100
100BYZMK414.6	3	100	14,6	3	1450	25,6	5500	star/delta	219,0	100
100BYZMK419.3	4	100	19,3	3	1450	29,1	5833	star/delta	244,0	100

ø Discharge bore mm		100mm
Pumping Fluid		0-40°C
Type of Fluid		Municipal sewage
Pump	Components	Impeller
		Single channel impeller
		Shaft Seal
	Material	Bearings
		Shielded ball bearings
		Impeller
		Grey iron casting EN-GJL-250
		Casing
		Shaft Seal
		SiC, upper in oil bath
		Wearing
Motor	Type, Poles	
	Induction motor, 4 poles, IP68	
	Phase / Voltage	
	3-phase / 400V / 50Hz / s.d.	
	Motor Protector (built-in)	
	Miniature protector	
	Insulation	
	Insulation class H	
Lubrication		Turbine oil (ISO VG32)
Material	Casing	Grey iron casting EN-GJL-250
		Shaft
		Stainless steel EN-X14Cr-Mo-S17
Discharge Connection	Cable	Rubber, 10m H07RN8-F
		Flange DIN/ANSI DN100 (PN10)
		Horizontal installation / Vertical installation
Optional Accessories		



## Dimensions - vertical installation mm::

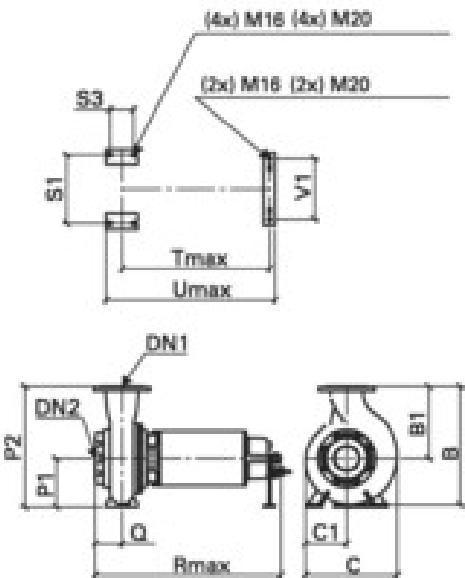
Model	A	B	B1	C	C1	DN1	DN2	J2	K1	K2	K3	K4	L	M	O
100BYZMK412.2L878	781	541	457	207	100	150	197	205	502	622	817	283	520	942	
100BYZMK412.2 878	781	541	457	207	100	150	197	205	502	622	817	283	520	942	
100BYZMK414.6 878	781	541	457	207	100	150	197	205	502	622	817	283	520	942	
100BYZMK419.3 968	781	541	457	207	100	150	197	205	502	622	817	283	520	942	



## Dimensions - horizontal installation mm::

Model	B	B1	C	C1	DN1	DN2	P1	P2	Q	R	S1	S3	T	U	V1
100BYZMK412.2L	605	345	457	207	100	150	260	605	130	890	380	115	706	816	310
100BYZMK412.2	605	345	457	207	100	150	260	605	130	890	380	115	706	816	310
100BYZMK414.6	605	345	457	207	100	150	260	605	130	890	380	115	706	816	310
100BYZMK419.3	605	345	457	207	100	150	260	605	130	980	380	115	796	906	310

## Horizontal installation



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We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.

