



TSURUMI PUMP

100BYZ ^{3-phase} 50Hz

BYZ-Series 100mm discharge, wet 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.

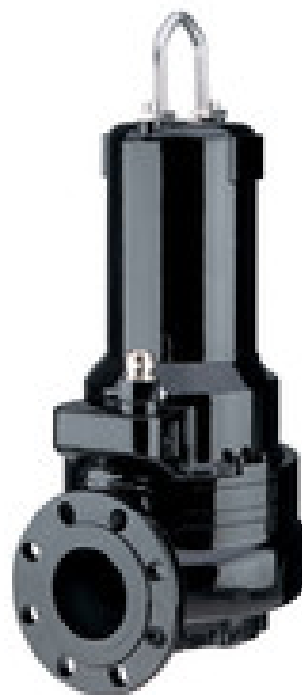
Optional Accessories:

- duck-foot for guide rails:
 - guide support
 - duck foot
- Bend
- Stand set for free-standing version



Available options

- Explosion proof version
- Oil sensor
- Motor versions up to 2.9 kW in d.o.l., 3.7kW-motor either in d.o.l.- or star-delta-start, from 5 kW on only start-delta-start
- All pumps can be operated with soft-starter and frequency-converter

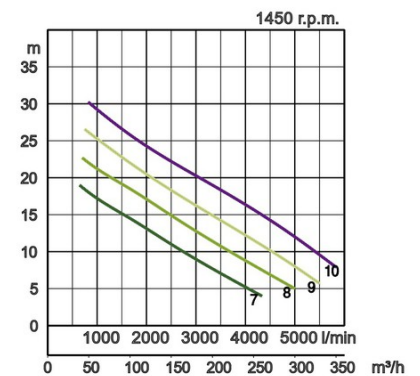
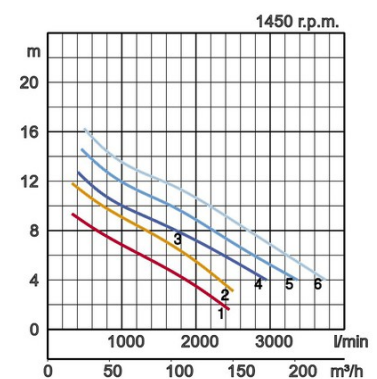


Specifications:

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
free standing	with guide rail fitting										free standing	with guide rail fitting	
100BYZ42.9	TOS100BYZ42.9	1	100	2,9	3	1450	9,2	2448	direct		104,0	104,0	100
100BYZ43.7	TOS100BYZ43.7	2	100	3,7	3	1450	11,7	2500	star/delta		108,0	108,0	100
100BYZ43.7H	TOS100BYZ43.7H	3	100	3,7	3	1450	12,6	1863	star/delta		129,0	129,0	100
100BYZ45.0L	TOS100BYZ45.0L	4	100	5,0	3	1450	12,6	2950	star/delta		139,0	139,0	100
100BYZ45.0	TOS100BYZ45.0	5	100	5,0	3	1450	14,4	3367	star/delta		139,0	139,0	100
100BYZ46.5	TOS100BYZ46.5	6	100	6,5	3	1450	16,3	3750	star/delta		142,0	142,0	100
100BYZ412.2L	TOS100BYZ412.2L	7	100	12,2	3	1450	18,9	4333	star/delta		209,0	209,0	100
100BYZ412.2	TOS100BYZ412.2	8	100	12,2	3	1450	27,0	5000	star/delta		209,0	209,0	100
100BYZ414.6	TOS100BYZ414.6	9	100	14,6	3	1450	25,6	5500	star/delta		209,0	209,0	100
100BYZ419.3	TOS100BYZ419.3	10	100	19,3	3	1450	29,1	5833	star/delta		231,0	231,0	100

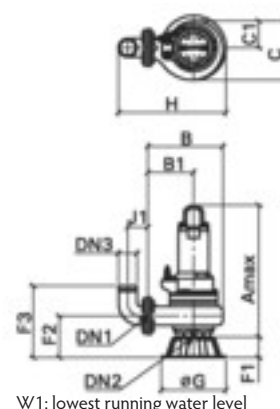
3.7 kW version available in d.o.l. or star-delta

ø Discharge bore mm			100mm
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Municipal sewage
Pump	Compo- nents	Impeller	Single channel impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Grey iron casting EN-GJL-250
		Casing	Grey iron casting EN-GJL-250
		Shaft Seal	SiC, upper in oil bath
		Wearing	Bronze
	Motor	Insulation	
Motor Protector (built-in)		Miniature protector	
Phase / Voltage		3-phase / 400V / 50Hz / s.d.	
Lubrication		Turbine oil (ISO VG32)	
Type, Poles		Induction motor, 4 poles, IP68	
Material		Casing	Grey iron casting EN-GJL-250
		Shaft	Stainless steel EN-X14Cr-Mo-S17
		Cable	Rubber, 10m H07RN8-F
Discharge Connection			Flange DIN/ANSI DN100 (PN10)
Optional Accessories			Guide rail fitting "TOS" (guide support, duck foot bend, lifting chain) / Bend and stand set for free standing types



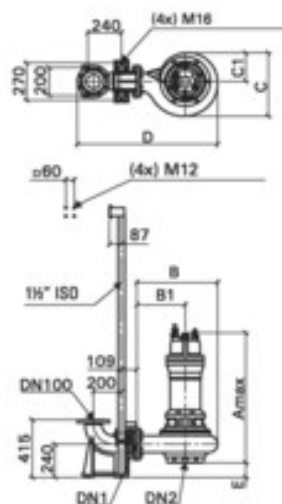
Dimensions in mm:

Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
100BYZ42.9	737	422	265	323	147	100	100	4"	125	248	433	395	642	122
100BYZ43.7	737	422	265	323	147	100	100	4"	125	248	433	395	642	122
100BYZ43.7H	733	460	280	335	149	100	100	4"	125	245	430	450	684	122
100BYZ45.0L	806	460	280	335	149	100	100	4"	125	245	430	450	684	122
100BYZ45.0	806	460	280	335	149	100	100	4"	125	245	430	450	684	122
100BYZ46.5	806	460	280	335	149	100	100	4"	125	245	430	450	684	122
100BYZ412.2L	878	585	345	475	225	100	150	4"	125	245	430	450	764	122
100BYZ412.2	878	585	345	475	225	100	150	4"	125	245	430	450	764	122
100BYZ414.6	878	585	345	475	225	100	150	4"	125	245	430	450	764	122
100BYZ419.3	968	585	345	475	225	100	150	4"	125	245	430	450	764	122



Dimensions - guide rail fitting type in mm:

Model	A	B	B1	C	C1	D	DN1	DN2	E
100BYZ42.9	737	422	265	323	147	846	100	100	117
100BYZ43.7	737	422	265	323	147	846	100	100	117
100BYZ43.7H	733	460	280	335	149	884	100	100	120
100BYZ45.0L	806	460	280	335	149	884	100	100	120
100BYZ45.0	806	460	280	335	149	884	100	100	120
100BYZ46.5	806	460	280	335	149	884	100	100	120
100BYZ412.2L	878	585	345	457	207	1009	100	150	120
100BYZ412.2	878	585	345	457	207	1009	100	150	120
100BYZ414.6	878	585	345	457	207	1000	100	150	120
100BYZ419.3	968	585	345	457	207	1009	100	150	120



Tsurumi (Europe) GmbH

Wahlerstr. 10

D-40472 Düsseldorf

Tel.: +49 (0)211-4179373

Fax: +49 (0)211-417937-480

Email: sales@tsurumi.eu

www.tsurumi.eu

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.

sew-BYZ_100mm-EN

