



TSURUMI PUMP

100BY 3-phase
50Hz

BY-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.

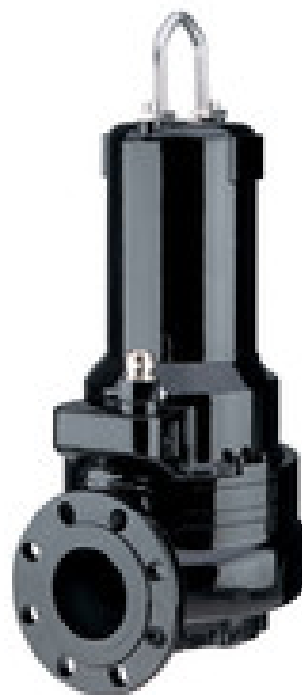
Optional Accessories:

- 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

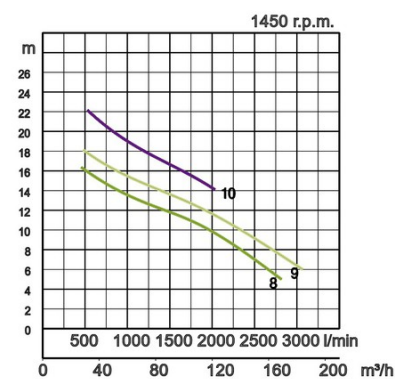
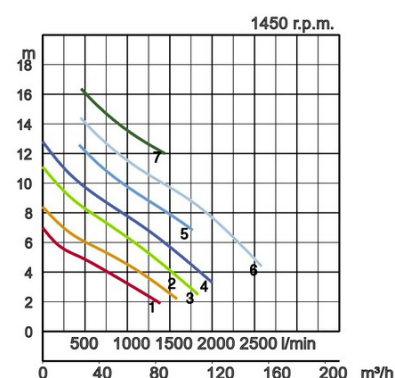


Specifications:

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	
100BY41.3	TOS100BY41.3	1	1	100	1,3	3	1450	7,0	1387	direct	74,0	74,0	80
100BY42.6LL	TOS100BY42.6LL	2	2	100	2,6	3	1450	8,4	1583	direct	80,0	80,0	80
100BY42.6L	TOS100BY42.6L	3	3	100	2,6	3	1450	11,1	1833	direct	82,0	82,0	80
100BY42.6	TOS100BY42.6	4	4	100	2,6	3	1450	12,8	2000	direct	82,0	82,0	80
100BY42.9	TOS100BY42.9	5	5	100	2,9	3	1450	15,5	1767	direct	118,0	118,0	80
100BY43.7	TOS100BY43.7	6	6	100	3,7	3	1450	14,4	2583	star/delta	122,0	122,0	80
100BY43.7H	TOS100BY43.7H	7	7	100	3,7	3	1450	16,1	1444	star/delta	122,0	122,0	80
100BY45.0	TOS100BY45.0	8	8	100	5,0	3	1450	16,1	2817	star/delta	132,0	132,0	80
100BY46.5	TOS100BY46.5	9	9	100	6,5	3	1450	18,0	3067	star/delta	135,0	135,0	80
100BY46.5H	TOS100BY46.5H	10	10	100	6,5	3	1450	22,1	2033	star/delta	142,2	142,2	80

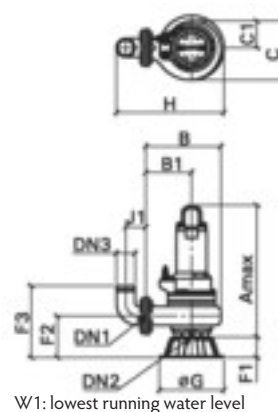
3.7 kW version available in d.o.l. or star-delta

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	Motor Protector (built-in)		Miniature protector
	Insulation		Insulation class H
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l., 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



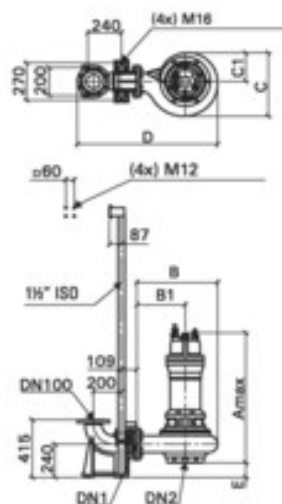
Dimensions in mm:

Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
100BY41.3	517	360	200	305	145	100	100	4"	125	218	403	395	577	122
100BY42.6LL	554	360	200	305	145	100	100	4"	125	218	403	395	577	122
100BY42.6L	554	360	200	305	145	100	100	4"	125	218	403	395	577	122
100BY42.6	554	360	200	305	145	100	100	4"	125	218	403	395	577	122
100BY42.9	692	460	280	357	163	100	100	4"	125	225	410	395	656	122
100BY43.7	692	460	280	357	163	100	100	4"	125	225	410	395	656	122
100BY43.7H	692	460	280	357	163	100	100	4"	125	225	410	395	656	122
100BY45.0	765	460	280	357	163	100	100	4"	125	225	410	395	656	122
100BY46.5	765	460	280	357	163	100	100	4"	125	225	410	395	656	122
100BY46.5H	772	488	300	381	178	100	100	4"	125	220	405	395	677	122



Dimensions - guide rail fitting type in mm:

Model	A	B	B1	C	C1	D	DN1	DN2	E
100BY41.3	517	360	200	305	145	784	100	100	147
100BY42.6LL	554	360	200	305	145	784	100	100	147
100BY42.6L	554	360	200	305	145	784	100	100	147
100BY42.6	554	360	200	305	145	784	100	100	147
100BY42.9	692	460	280	357	163	884	100	100	140
100BY43.7	692	460	280	357	163	884	100	100	140
100BY43.7H	692	460	280	357	163	884	100	100	140
100BY45.0	765	460	280	357	163	884	100	100	140
100BY46.5	765	460	280	357	163	884	100	100	140
100BY46.5H	772	488	300	381	178	912	100	100	145



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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.

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