



80BYZ 3-phase 50Hz

BYZ-Series 80mm 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.

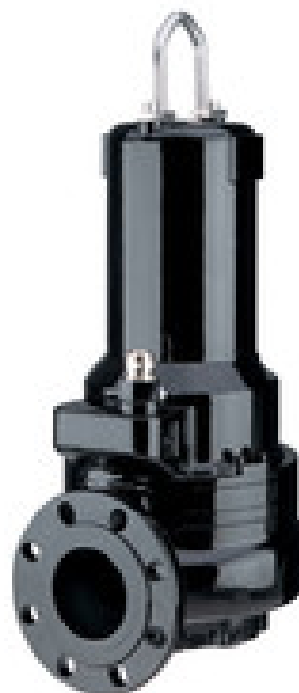
Optional Accessories:

- 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

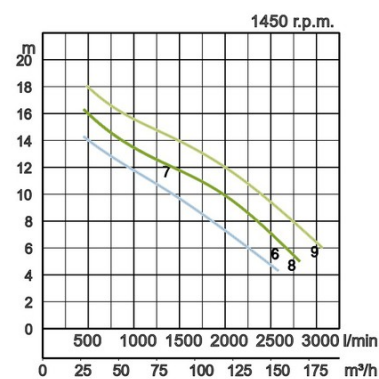
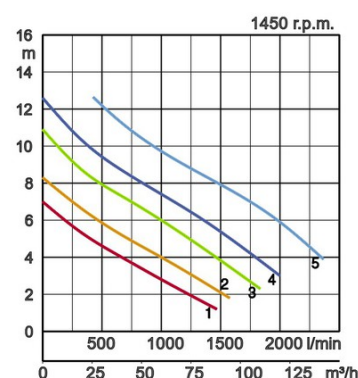


Specifications:

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	
80BYZ41.3	TOS80BYZ41.3		1	80	1,3	3	1450	7,0	1467	direct	74,0	74,0	80
80BYZ42.6LL	TOS80BYZ42.6LL		2	80	2,6	3	1450	8,3	1576	direct	80,0	80,0	80
80BYZ42.6L	TOS80BYZ42.6L		3	80	2,6	3	1450	10,9	1833	direct	82,0	82,0	80
80BYZ42.6	TOS80BYZ42.6		4	80	2,6	3	1450	12,6	2000	direct	82,0	82,0	80
80BYZ42.9	TOS80BYZ42.9		5	80	2,9	3	1450	12,4	2366	direct	117,0	117,0	80
80BYZ43.7	TOS80BYZ43.7		6	80	3,7	3	1450	14,4	2583	star/delta	121,0	121,0	80
80BYZ43.7H	TOS80BYZ43.7H		7	80	3,7	3	1450	16,1	1445	star/delta	121,0	121,0	80
80BYZ45.0	TOS80BYZ45.0		8	80	5,0	3	1450	16,1	2817	star/delta	131,0	131,0	80
80BYZ46.5	TOS80BYZ46.5		9	80	6,5	3	1450	18,0	3067	star/delta	134,0	134,0	80

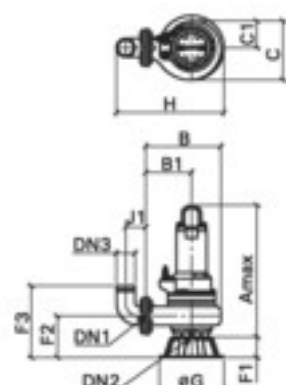
3.7 kW version available in d.o.l. or star-delta

ø Discharge bore mm			80mm
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	Type, Poles		Induction motor, 4 poles, IP68
	Lubrication		Turbine oil (ISO VG32)
	Phase / Voltage		3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.
	Insulation		Insulation class H
	Motor Protector (built-in)		Miniature protector
	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 DN80 (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:

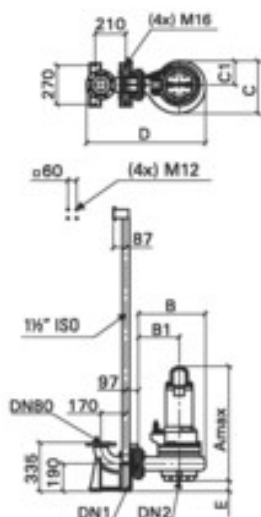
Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
80BYZ41.3	517	360	200	305	145	80	100	3"	125	218	316	395	578	137
80BYZ42.6LL	554	360	200	305	145	80	100	3"	125	218	316	395	578	137
80BYZ42.6L	554	360	200	305	145	80	100	3"	125	218	316	395	578	137
80BYZ42.6	554	360	200	305	145	80	100	3"	125	218	316	395	578	137
80BYZ42.9	692	460	280	357	163	80	100	3"	125	225	323	395	658	137
80BYZ43.7	692	460	280	357	163	80	100	3"	125	225	323	395	658	137
80BYZ43.7H	692	460	280	357	163	80	100	3"	125	225	323	395	658	137
80BYZ45.0	765	460	280	357	163	80	100	3"	125	225	323	395	658	137
80BYZ46.5	765	460	280	357	163	80	100	3"	125	225	323	395	658	137



W1: lowest running water level

Dimensions - guide rail fitting type in mm:

Model	A	B	B1	C	C1	D	DN1	DN2	E
80BYZ41.3	517	360	200	305	145	727	80	100	97
80BYZ42.6LL	554	360	200	305	145	727	80	100	97
80BYZ42.6L	554	360	200	305	145	727	80	100	97
80BYZ42.6	554	360	200	305	145	727	80	100	97
80BYZ42.9	692	460	280	357	163	827	80	100	90
80BYZ43.7	692	460	280	357	163	827	80	100	90
80BYZ43.7H	692	460	280	357	163	827	80	100	90
80BYZ45.0	765	460	280	357	163	827	80	100	90
80BYZ46.5	765	460	280	357	163	827	80	100	90



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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.

sew-BYZ_80mm-EN

