



**TSURUMI PUMP**

**80BPZ** 3-phase  
50Hz

BPZ-series 80mm discharge,  
wet-well and dry-well installation, hydraulically  
highly efficient channel impeller and IE3 premium  
efficiency motor, moisture sensor

Sewage pump for municipal and industrial  
sewage water. The pumps are as a standard  
equipped with a moisture sensor and a cooling  
jacket and thus can constructively be installed  
dry- and wet-well mounted. Option for  
explosion-proof version available.





## 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

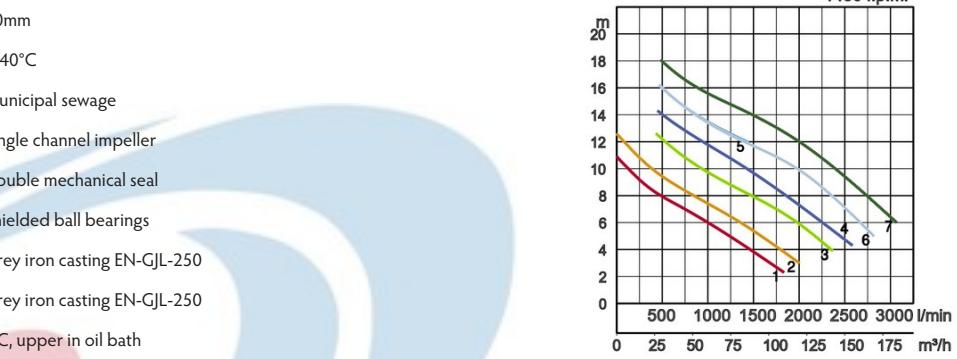


## Specifications:

Model	free standing	with guide rail fitting	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	
80BPZM42.9LL TOS80BPZM42.9LL	1	80	2,9	3	1450	10,9	1833	direct	130,0	130,0	80	80	80
80BPZM42.9L TOS80BPZM42.9L	2	80	2,9	3	1450	12,6	2000	direct	130,0	130,0	80	80	80
80BPZM42.9 TOS80BPZM42.9	3	80	2,9	3	1450	12,4	2367	direct	134,0	134,0	80	80	80
80BPZM43.7 TOS80BPZM43.7	4	80	3,7	3	1450	14,4	2583	star/delta	134,0	134,0	80	80	80
80BPZM43.7H TOS80BPZM43.7H	5	80	3,7	3	1450	16,1	1444	star/delta	134,0	134,0	80	80	80
80BPZM45.0 TOS80BPZM45.0	6	80	5,0	3	1450	16,1	2817	star/delta	134,0	134,0	80	80	80
80BPZM46.5 TOS80BPZM46.5	7	80	6,5	3	1450	18,0	3067	star/delta	152,0	152,0	80	80	80

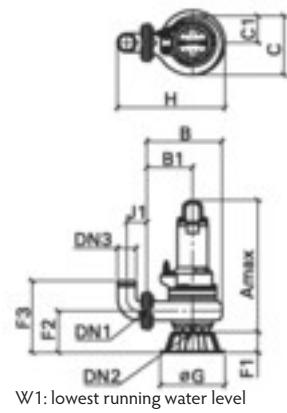
### 3.7 kW version available in d.o.l. or star-delta

ø Discharge bore mm		80mm	
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		
	Lubrication		
	Turbine oil (ISO VG32)		
	Insulation		
	Insulation class H		
	Motor Protector (built-in)		
	Miniature protector		
Phase / Voltage		3-phase / 400V / 50Hz / d.o.l., 3-phase / 400V / 50Hz / s.d.	
Material	Casing	Grey iron casting EN-GJL-250	
		Shaft	
		Stainless steel EN-X14Cr-Mo-S17, Stainless steel EN-X5CrNiMo17-12-2	
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			



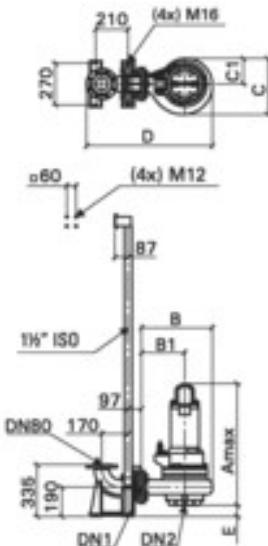
### Dimensions in mm:

Model	A	B	B1	C	C1	DN1	DN2	DN3	F1	F2	F3	G	H	J1
80BPZM42.9LL 714	360	200	315	155	80	100	3"	125	218	316	395	578	137	
80BPZM42.9L 714	360	200	315	155	80	100	3"	125	218	316	395	578	137	
80BPZM42.9 720	460	280	357	163	80	100	3"	125	225	323	395	658	137	
80BPZM43.7 720	460	280	357	163	80	100	3"	125	225	323	395	658	137	
80BPZM43.7H 720	460	280	357	163	80	100	3"	125	225	323	395	658	137	
80BPZM45.0 720	460	280	357	163	80	100	3"	125	225	323	395	658	137	
80BPZM46.5 790	460	280	357	163	80	100	3"	125	225	323	395	658	137	



**Dimensions - guide rail fitting type in mm:**

Model	A	B	B1	C	C1	D	DN1	DN2	E
80BPZM42.9LL	714	360	200	315	155	727	80	100	97
80BPZM42.9L	714	360	200	315	155	727	80	100	97
80BPZM42.9	720	460	280	357	163	827	80	100	90
80BPZM43.7	720	460	280	357	163	827	80	100	90
80BPZM43.7H	720	460	280	357	163	827	80	100	90
80BPZM45.0	720	460	280	357	163	827	80	100	90
80BPZM46.5	790	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.

