EJ Series

Model Form

For example,

EJ 80 140 - CI - BR - SS - MS

- **Seal Type**
  - MS = Mechanical Seal
- **Shaft Material**
  - SS = Stainless Steel ASTM420
  - S304 = Stainless Steel ASTM304
  - S316= Stainless Steel ASTM316
  - 45= Carbon Steel ASTM1045
- **Impeller and Wear Plate Material**
  - DI= Ductile Iron Impeller and Cast Iron Wear Plate
  - BR = Bronze Impeller and Wear Plate
  - S304 = Stainless Steel ASTM304 Impeller and Wear Plate
  - S316= Stainless Steel ASTM316 Impeller and Wear Plate
- **Casing Material**
  - CI = Cast Iron
  - DI= Ductile Iron
  - BR = Bronze
- **Impeller Nominal Size (mm)**
- **Suction and Discharge Size (mm)**
- **Self-priming Centrifugal Sewage Pump**

Description

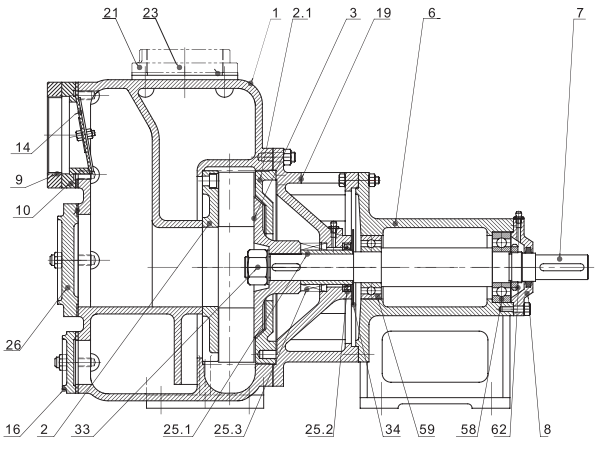
EJ pump is designed referring to the European standard of performance and dimensions.
This is a series of self-priming sewage pumps. Pump has maintenance holes outside the casing which enable convenient maintenance and cleaning; meanwhile, the other one advanced device - wear plate would greatly prolong the whole service life.
EJ pumps are used for pumping mixtures containing abrasive solids up to a viscosity of 50mm^2/s. They are applied in many fields, such as industry, civil engineering, marine, waste treatment and so on.
As self-priming sewage pumps, they can deal with different neutral, alkali liquids clean or dirty: liquids mixed with sand, mud or other solids in suspension; low viscosity petroleum products; lime milk, caustic soda and waste water resulted from washing, cooling, circulation, purification or emergency.
Pump performance can be adjusted into different levels by speed (Rpm) to meet different requirements.

Design: Performance and Dimensions referring to the European standard
Structure: Semi-open Impeller, Horizontal, Axial End-Suction, Single-Stage, Single-Suction, Self-priming Centrifugal Pump
Flange: All EJ pumps are equipped with Flange.
Screw Flange for Size <100 mm
Nonstandard Flange for Size ≥ 100 mm
Rotation: Clockwise viewing from the drive side
Material
Casing –Cast Iron standard, Ductile Iron, Bronze optional
Impeller –Ductile Iron standard, Bronze, ASTM304, ASTM316 optional
Shaft –ASTM 1045 standard, ASTM304, ASTM316, ATSM 420 optional
Shaft Seal –Mechanical Seal (Sic-Sic/Viton)
Operating Data
Flow Rate (Q): 4-480m^3/h
Head (H): 4-40m
Speed: 1450-2900rpm(50HZ), 1750-3500rpm(60HZ)
Temperature: -10℃ to 80℃
Working Pressure: 6 Bar
Max Solids: 76 mm

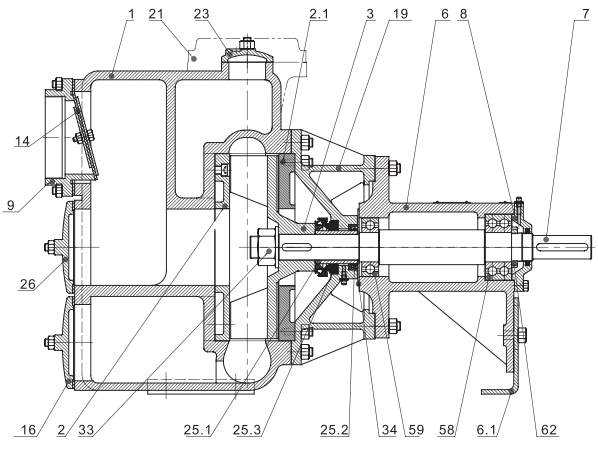
Structure Drawing

No.	Spare Part
1	Casing
2	Front Wear Plate
2.1	Back Wear Plate
3	Impeller
6	Bearing Housing
6.1	Support Foot
7	Shaft
8	Bearing Cover
9	Suction Flange
10	Check Valve Seat
14	Check Valve
16	Maintenance Cover
19	Casing Cover
21	Discharge Flange
23	Maintenance Cover
25.1	Shaft Sleeve
25.2	Oil Seal
25.3	Mechanical Seal
26	Maintenance Cover
33	Impeller Nut
34	Slinger
58	Bearing
59	Bearing
62	Lock Nut

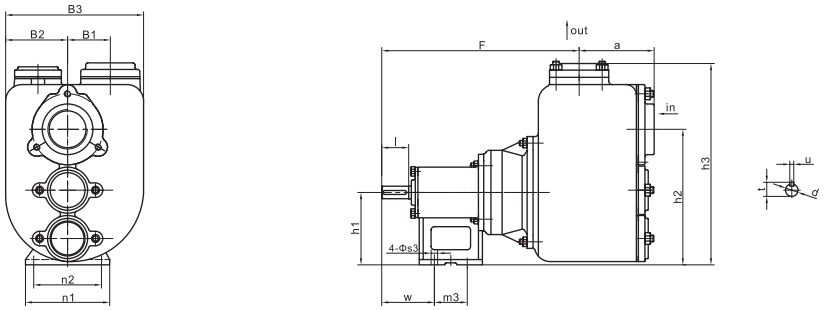
1.(EJ40-110,EJ50-120,EJ80-215,EJ100-160)



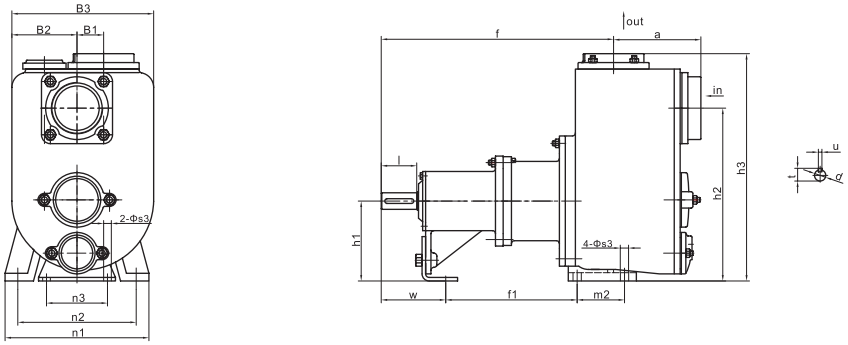
2.(EJ80-140,EJ100-250,EJ150-250,EJ150-400,EJ200-300)



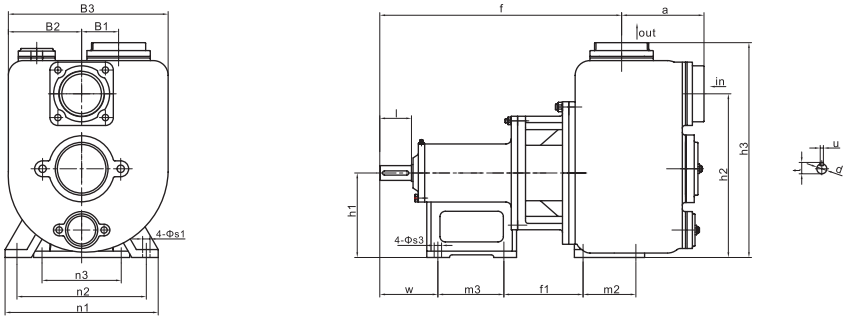
EJ Outline Drawing & Installing Dimensions



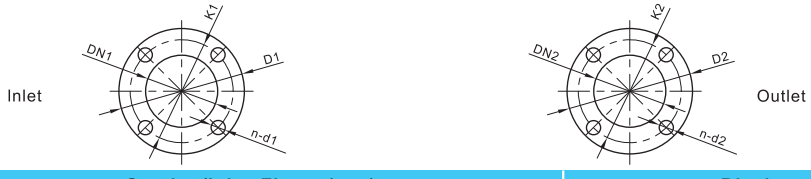
Model	B1	B2	B3	h1	h2	h3	n2	n1	f	a	l	w	m3	t	u	d	s3
EJ40-110	30	74.5	165	90	163	237	80	102	263	75	40	70	50	21.5	6	19	10
EJ50-120	36	94	210	110	206	326	103	128	300	114	40	80	50	21.5	6	19	12
EJ100-160	37	90	300	160	341	459	150	182	442.5	180	60	110	125	31	8	28	14



Model	B1	B2	B3	h1	h2	h3	n3	n2	n1	f	a	l	w	f1	m2	t	u	d	s1	s3
EJ80-140	43	110	240	135	290	383	90	200	243	390	148	60	109	222	80	31	8	28	14	14
EJ100-250	160	179	420	200	355	485	110	295	160	470	275	80	130	355	95	35	10	32	14	15
EJ150-250	90	220	480	250	455	590	110	350	410	570	280	80	130	330	170	35	10	32	18	15
EJ200-300	75	288	575	315	535	690	150	450	510	822	290	110	165	496	200	45	12	42	18	18
EJ150-400	280	280	705	350	645	795	150	450	510	700	374	110	180	477.5	200	59	16	55	18	18



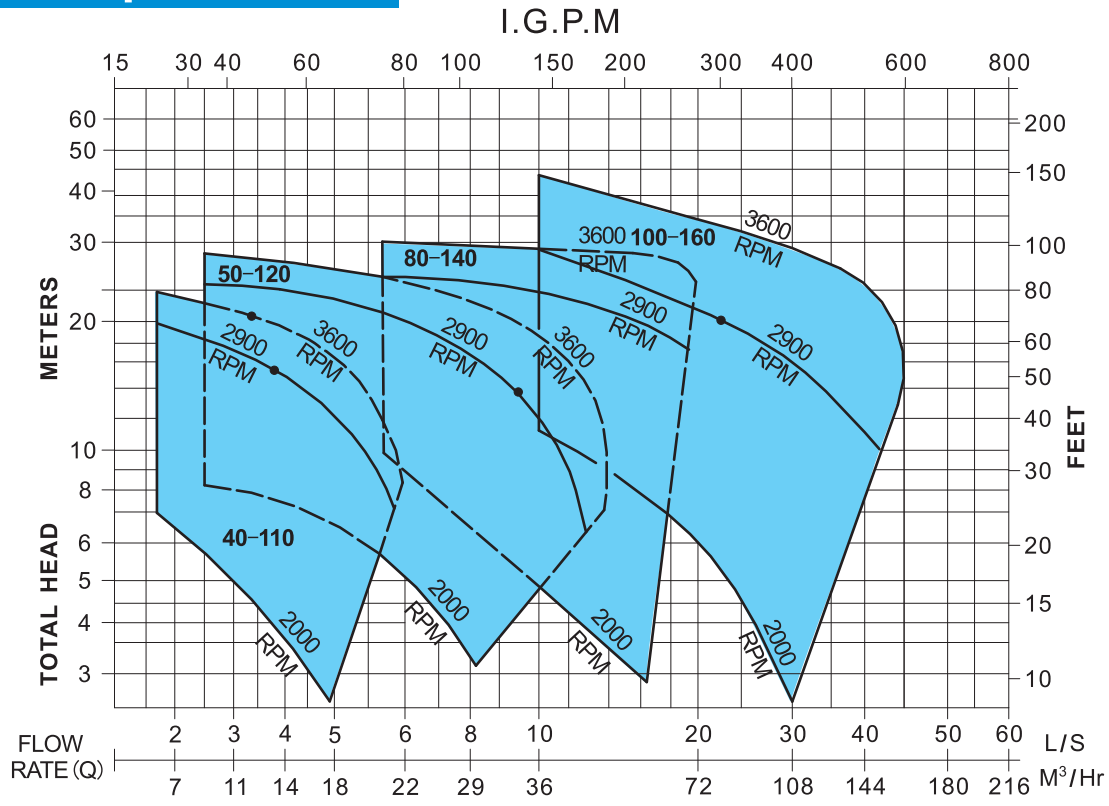
Model	B1	B2	B3	h1	h2	h3	n3	n2	n1	f	a	l	w	m3	f1	m2	t	u	d	s1	s3
EJ80-215	70	164	302	160	310	410	150	245	290	458	155	60	110	125	150	100	31	8	28	14	14



Model	Suction/Inlet Flange(mm)				Discharge/Outlet Flange(mm)			
	DN1	K1	D1	n-d1	DN2	K2	D2	n-d2
EJ40-110	RP1 1/2	—	—	—	RP1 1/2	—	—	—
EJ50-120	RP2	—	—	—	RP2	—	—	—
EJ80-140	RP3	—	—	—	RP3	—	—	—
EJ80-215	RP3	—	—	—	RP3	—	—	—
EJ100-160	RP4	—	—	—	RP4	—	—	—
EJ100-250	RP4	—	—	—	RP4	—	—	—
EJ150-250	Φ150	Φ240	Φ276	6-Φ18	Φ150	Φ240	Φ276	6-Φ18
EJ150-400	Φ150	Φ240	Φ276	6-Φ18	Φ150	Φ240	Φ276	6-Φ18
EJ200-300	Φ205	Φ280	Φ320	8-Φ18	Φ205	Φ280	Φ320	8-Φ18

EJ Series Performance

Nominal Speed–2 Poles



Nominal Speed–4 Poles