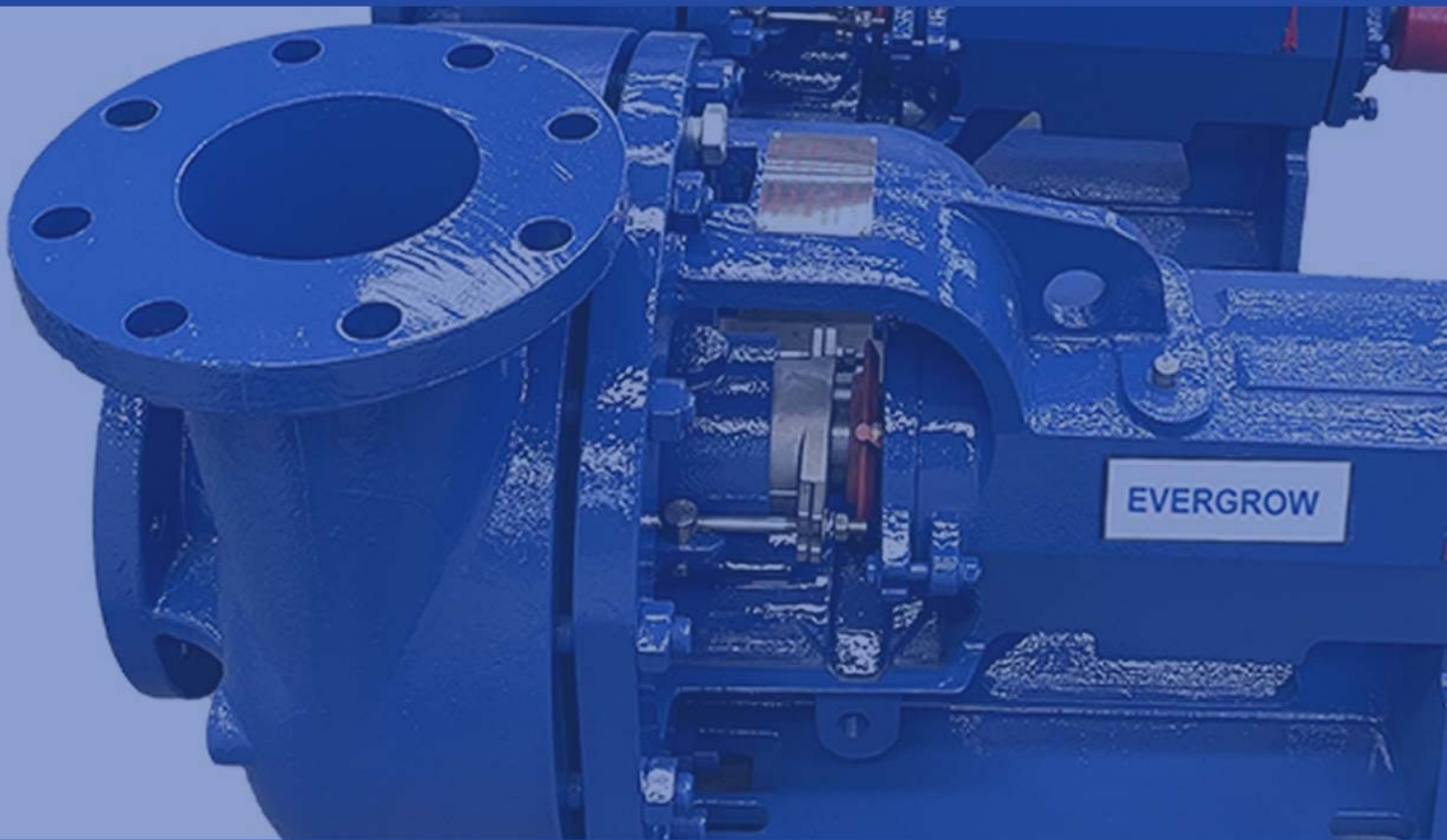




EVERGROW

Flexible Solutions. Reliable Products.



EG-250 Centrifugal Pumps

Centrifugal Pumps Models

EG-250 Series

EG-250 Short Pump

Available sizes

3x2x13

4x3x13

5x4x14

6x5x11

6x5x14

8x6x11

8x6x14

10x8x14



EG-XP Pump

Available sizes

8x6x18

12x10x23

14x12x22



EG-250 Centrifugal Pumps

EG-250 Centrifugal pump has enhanced efficiency, longer lifespan, and greater cost-savings compared to other brands on the market.

EG-250 features a high-quality bearing, wider impeller and an increased re-circulation area. The heavy-duty shaft increased the operating life of the seal or packing, versatile stuffing box allows these pumps to be customized to meet customer needs.

All parts are completely interchangeable with other standard pumps currently on the market.

EG-250 centrifugal pumps are used in various industries, including oil and gas, water supply, irrigation, wastewater treatment, and chemical processing, etc..

The following pages show the components and specifications of the EG-250. For more details about Evergrow's centrifugal pumps, contact Evergrow's sales department today.



EG-250 Centrifugal Pump Components



EG-250 Casing

The EG-250 pump has been beefed up in critical wear areas for extra life. The concentric housing eliminates vibration, turbulence, cavitation, and reduces bearing load and shaft deflection.

Casting iron material and stainless steel material are available.



EG-250 Impeller (semi open/open)

The EG-250 pump has flexible solutions for impellers, both in open vane and in semi open vane.

Open vane impeller design is engineered to reduce turbulence, eliminate recirculation, lower radial and thrust loads, and provide a smooth flow of fluid through the pump.



EG-250 Pump Shaft

The EG-250 pump shaft is manufactured from the highest quality alloy steel, fatigue resistant steels, machined to demanding tolerances. Designed to transmit the required horsepower even in the most challenging applications



EG-250 Shaft Sleeve

The shaft sleeve is designed to protect the shaft from abrasive fluids.

The EG-250 shaft sleeve has two types: one option is made of high quality stainless steel, the other option is made of high quality stainless steel and ceramic coated for extra life.



EG-250 Mechanical Seals & Packing

EG-250 Pump uses an industry-leading, heavy-duty mechanical seal as a standard. They are one of the finest mechanical seals on the market.

EG-250 also offers more economical options, for all three of its pump sizes, in the form of regular Graphite packing, and Teflon packing, to address the leakage concerns on centrifugal pumps.



EG-250 Bearings

EG-250 uses bearings of the highest quality from the premier bearing manufacturers for its pump. All the bearings are interchangeable with other similar and popular centrifugal pumps.

The inboard bearing is a double row angular contact bearing, for enhanced stability of the shaft. The outboard side sports two angular contact bearings installed “back-to-back” for maximum thrust handling capability.



EG-250 Stuffing Box

An easily removable stuffing box allows these pumps to be customized to meet customer needs. EG-250 Stuffing box cover is available in two styles: for mechanical seals or for regular packing. The packed box has a tapped opening to the lantern ring to allow grease lubrication or a flush line to be attached.



COMPLETE STOCK OF COMPONENTS

Evergrow has a standard warehouse with stocks of complete series of components of EG-250 centrifugal pumps. These parts are interchangeable with other similar and popular centrifugal pumps. The lead time is short, and we can deliver to any city where you are located.



SKID PACKAGES

Evergrow offers its pumps mounted on skid packages, coupled with the explosion-proof electric motors and wired with starters if desired. The skids themselves can be painted to customer's specifications or offered in a galvanized condition. Forklift pocket could be added as requested.

This exploded view diagram illustrates the assembly of the EVERFLOW 10000 Series Ball Valve. The components are labeled as follows:

- Main Body and Cover:** 1 (Body), 1A (Cover), 1B (Cover Gasket), 1C (Cover Bolt), 1D (Cover Nut), 1E (Cover Flange).
- Internal Components:** 2 (Ball), 2A (Ball Seat), 2B (Ball Seat Gasket), 2C (Ball Seat Bolt), 3 (Stem), 3A (Stem Seal), 3B (Stem Seal Gasket), 3C (Stem Seal Bolt), 3D (Stem Seal Nut), 3E (Stem Seal Flange), 3F (Stem Seal Gasket), 3G (Stem Seal Bolt), 3H (Stem Seal Nut), 3I (Stem Seal Flange), 3J (Stem Seal Gasket), 3K (Stem Seal Bolt), 3L (Stem Seal Nut), 3M (Stem Seal Flange), 3N (Stem Seal Gasket), 3O (Stem Seal Bolt), 3P (Stem Seal Nut), 3Q (Stem Seal Flange), 3R (Stem Seal Gasket), 3S (Stem Seal Bolt), 3T (Stem Seal Nut), 3U (Stem Seal Flange), 3V (Stem Seal Gasket), 3W (Stem Seal Bolt), 3X (Stem Seal Nut), 3Y (Stem Seal Flange), 3Z (Stem Seal Gasket).
- Handle Assembly:** 4 (Handle), 4A (Handle Bolt), 4B (Handle Nut), 4C (Handle Flange), 4D (Handle Gasket), 4E (Handle Bolt), 4F (Handle Nut), 4G (Handle Flange), 4H (Handle Gasket), 4I (Handle Bolt), 4J (Handle Nut), 4K (Handle Flange), 4L (Handle Gasket), 4M (Handle Bolt), 4N (Handle Nut), 4O (Handle Flange), 4P (Handle Gasket), 4Q (Handle Bolt), 4R (Handle Nut), 4S (Handle Flange), 4T (Handle Gasket), 4U (Handle Bolt), 4V (Handle Nut), 4W (Handle Flange), 4X (Handle Gasket), 4Y (Handle Bolt), 4Z (Handle Nut).
- Optional Packing Arrangement:** 5 (Packing), 5A (Packing Gasket), 5B (Packing Bolt), 5C (Packing Nut), 5D (Packing Flange), 5E (Packing Gasket), 5F (Packing Bolt), 5G (Packing Nut), 5H (Packing Flange), 5I (Packing Gasket), 5J (Packing Bolt), 5K (Packing Nut), 5L (Packing Flange), 5M (Packing Gasket), 5N (Packing Bolt), 5O (Packing Nut), 5P (Packing Flange), 5Q (Packing Gasket), 5R (Packing Bolt), 5S (Packing Nut), 5T (Packing Flange), 5U (Packing Gasket), 5V (Packing Bolt), 5W (Packing Nut), 5X (Packing Flange), 5Y (Packing Gasket), 5Z (Packing Bolt).

Optional Packing Arrangement

EG-250 Centrifugal Pump Parts List

ITEM	QTY	Evergrow No.	Mission No.	MCM No.	DESCRIPTION	MATERAIL
1*	1	See below	See below		Casing	
1A	1	1A0399	10399-46-1	P25HG	Gasket,casing	Vellumoid
1B	12	1B3932	3932-61	-	Nut,casing	Stl
1C	12	1C3862	3862-76	P25HSN	Stud,casing	Stl
1D	1	1D2412	8505-4-1	P25ODP	Plug,Casing Drain	Stl
1E	1	1E2412	8505-4-1	P25ODP	Plug,flush line	Stl
2*	1		See below		Impeller	
2A	1	2A1911	19110-72	P25IMS	Seal,impeller	Viton
2B	1	2B3002	7300239	-	Washer,impeller	Stl
2C	1	2C4156	7415648	-	Bolt,impeler lock	Stl
3*#	1	322223	22223-01-30	P25SB/MS	Stuffing box,mech.seal	Hard Iron
3*&	1	320614	20614-01-30	P25SB/PK	Stuffing box,packed	Hard Iron
3A	2	3A8617	3861-117	P25SBB	Bolt,stuffing box	Stl
4	1	420622	20622A	P25PG	Gland assy,packing	Stl 304
5A#	1	5A2451	22451-1	P25MS/TT	Seal,mechanical	Tung/Tung
5A#	1	5A684G	648402600	P25PMSG	Packing, Shaft - M.S. Backup	Graphite Acrylic
5A#	Option	5A684K	648402600	-	Packing, Shaft - M.S. Backup	Kevlar
5A	1	5A251B	25014-04M-B	P25PMSK	Packing, Shaft - w/latern ring	Graphite/Acrylic
5A	Option	5A251D	250147-04M-D	P25PMST	Packing, Shaft - w/latern ring	Teflon, White
5A#	Option	5A251C	25014-04M-C	-	Packing, Shaft - w/latern ring	Kevlar
6	2	6B3701	B3701A	P25GABA	Bolt assy,gland	Stl 304
7	1	720612	20612-02-33	P25SHFT	Shaft	42CrMo
7A#	1	7A0943	20943-04A	-	Sleeve,shaft	38CrMoAl
7A&	1	7A0613	20613-21G-7A	P25SHSLVC	Sleeve,shaft,ceramic	Ceramic
7B	1	7B9026	4371-5-21	P25CK	Key,shaft	Stl
7C	1	7C2344	23444-01-72	P25SSS	Seal,shaft sleeve	Viton
8	1	822210	22210-1A	P25SRW	Deflector assembly	Composite
9	1	920618	20618-12-1	P25PED	Frame,grease lubricated	Cast iron
9C	1	9C8505	8505-05	-	Plug, Frame Drain	Stl
9D	1	9D1967	1967-1-1	-	Breather	Stl
9G	3	9G2538	2538-1H	-	Bolt,casing jack	Stl
10A	1	10A0626	20626	P25IBBC	Cover,inboard bearing	Iron
10B	1	10B0625	20625	P25IBBCG	Gasket,I.B.Brg.Cover	Vegetable fiber
10C	1	10C0619	20619-01	P25IBBOS	Oil seal, I.B.Brg.Cover	Buna-n
10D	2	10D3861	3861-1-1	P25IBBCB	Bolt, I.B.Brg.Cover	Stl
10E	2	10E1932	1932-2-1	-	Nut, I.B.Brg.Cover	Stl
10F	1	10F2062	20620-01	P251BBES	Exclusion Seal, I.B. Brg. Cvr.	Buna-n
10G	1	10G1641	21641-01	P25ZGF	Grease fitting	Stl
10H	1	10H6841	648411908	P25ZGF	Grease fitting	Stl
11	1	1100901	661 00901 OA	-	Bearing, Inboard & Spacer	Roller
11	1	1120615	20615-1	P25IBBRG	Bearing,inboard	Vendor
12	1	1220624	20624-01-01	P25OBBH	Housing,O.B.bearing	Iron
12A	1	12A7496	7496-253	P25OBBHS	Seal, O.B.Brg.housing	Buna-n
12B	4	12B3861	3861-138	P25BHB	Bolts, O.B.Brg.housing	Stl
12C	2	12C3962	3932-62	P25BCP	Nut, O.B.Brg.housing jam	Stl
13	1	1320617	20617A	P25OBBC	Cover,O.B.Bearing	Iron
13A	1	13A9368	19368-01	P25ZGF	Grease fitting	Brass
13B	1	13B7496	7496-26	P25OBBCS	O-ring, O.B.Brg.Cover	Buna-n
13C	1	13C0619	20619-02	P25OBBOS	Oil seal, O.B.Brg.Cover	Buna-n
13D	2	13D3861	3861-139	P25OBBCB	Bolt, O.B.Brg.Cover	Stl
14	2	1420616	20616-1	P25OBBRG	Bearing, O.B.	Vendor
14A	1	14A6124	6124-4-1	-	Lockwasher,O.B.Bearing	Stl

ITEM	QTY	EVERGROW No.	Mission No.	MCM No.	DESCRIPTION	MATERAIL
Casings-includes studs,nuts & gasket						
1*	1	12503213	19203-01-30A	P25D233H	Casing,3×2×13	Hard Iron
1*	1	12504313	19205-01-30A	P25D343H	Casing,4×3×13	Hard Iron
1*	1	12505414	19222-01-30A	P25D454H	Casing, 5×4×14	Hard Iron
1*	1	12506511	19122-01-30A	P25D561H	Casing,6×5×11	Hard Iron
1*	1	12506514	19123-01-30A	P25D564H	Casing, 6×5×14	Hard Iron
1*	1	12508611	19763-01-30A	P25D681H	Casing, 8×6×11	Hard Iron
1*	1	12508614	19117-01-30A	P25D684H	Casing,8×6×14	Hard Iron
1*	1	12510814	20937-01-30A	-	Casing,10×8×14	Hard Iron
Impellers						
2*	1	22503213	19204-XX-30	P25D233MRxxx	Impeller,3×2×13	Hard Iron
2*	1	22504313	19206-XX-30	P25D343MRxxx	Impeller,4×3×13	Hard Iron
2*	1	22505414	19224-XX-30	P25D454MRxxx	Impeller,5×4×14	Hard Iron
2*	1	22506511	19121-XX-30	P25D561MRxxx	Impeller,6×5×11	Hard Iron
2*	1	22506514	19121-XX-30	P25D564MRxxx	Impeller, 6×5×14	Hard Iron
2*	1	22508611	19121-XX-30	P25D561MRxxx	Impeller, 8×6×11	Hard Iron
2*	1	22508614	19116-A0-30	P25D684MRxxx	Impeller,8×6×14	Hard Iron
2*	1	22510814	21867-XX-30	-	Impeller,10×8×14	Hard Iron

Note:

XX - Impeller Code - First X equals diameter of impeller in inches minus 4. Therefore 10" = 6, 9"= 5,8"=4, etc... 14" use letter A.

Second X equals fractional data in 1/8's. Therefore 1/8" = 1, 1/4" = 2, 1/2" = 4, etc...Thus a 10.5" impeller is coded as 64, a 12" impeller is coded as 80, a 13.25" impeller is coded as 92 etc.

Parts for pump with wear pad

ITEM	QTY	Evergrow No.	MISSION No.	DESCRIPTION	MATERAIL
Casings-includes studs,nuts & gasket without wear pads					
1*	1	2500H3213	H19203-01-30A	Casing,3×2×13	Hard Iron
1*	1	2500H4313	H19205-01-30A	Casing,4×3×13	Hard Iron
1*	1	2500H5414	H19222-01-30A	Casing,5×4×14	Hard Iron
1*	1	2500H6511	H19122-01-30A	Casing,6×5×11	Hard Iron
1*	1	2500H6514	H19123-01-30A	Casing, 6×5×14	Hard Iron
1*	1	2500H8611	H19763-01-30A	Casing,8×6×11	Hard Iron
1*	1	2500H8614	H19117-01-30A	Casing,8×6×14	Hard Iron
1*	1	250H10814	H20937-01-30A	Casing,10×8×14	Hard Iron
Impellers and Casing Wear Pads					
2*	1	2500M3213	H19204-XX-30	Impeller,3×2×13 Open	Hard Iron
2*	1	2500M4313	H19206-XX-30	Impeller,4×3×13 Open	Hard Iron
2*	1	2500M5414	H2523-XX-30	Impeller,5×4×14 Semi Open	Hard Iron
2*	1	2500M6511	H2524-XX-30	Impeller,6×5×11 Semi Open	Hard Iron
2*	1	2500M6514	H2524-XX-30	Impeller, 6×5×14 Semi Open	Hard Iron
2*	1	2500M8611	H2524-XX-30	Impeller, 8×6×11 Semi Open	Hard Iron
2*	1	2500M8614	H2525-XX-30	Impeller,8×6×14 Semi Open	Hard Iron
2*	1	250M10814	H2526-XX-30	Impeller,10×8×14 Semi Open	Hard Iron
1E	1	2500W4313	H2501-01-30A	Wear Pad,4×3×13 Casing	Hard Iron
1E	1	2500W5414	H2502-01-30A	Wear Pad,5×4×14 Casing	Hard Iron
1E	1	2500W6511	H2503-01-30A	Wear Pad,6×5×11 Casing	Hard Iron
1E	1	2500W6514	H2504-01-30A	Wear Pad, 6×5×14 Casing	Hard Iron
1E	1	2500W8611	H2505-01-30A	Wear Pad,8×6×11 Casing	Hard Iron
1E	1	2500W8614	H2506-01-30A	Wear Pad,8×6×14 Casing	Hard Iron
1E	1	2500W8614	H2527-01-30A	Wear Pad,10×8×14 Casing	Hard Iron
(All parts for short pumps are identical to the EG-250 except the above)					

XX - Imp. Code - First X equals diameter of impeller in inches minus 4. Therefore 10" = 6, 9"= 5, 8"=4, etc...14" use letter A. Second X equals frational data in 1/8's. Therefore 1/8" = 1, 1/4" = 2, 1/2" = 4, etc...Thus a 10.5" impeller is coded as 64

Parts for short pump

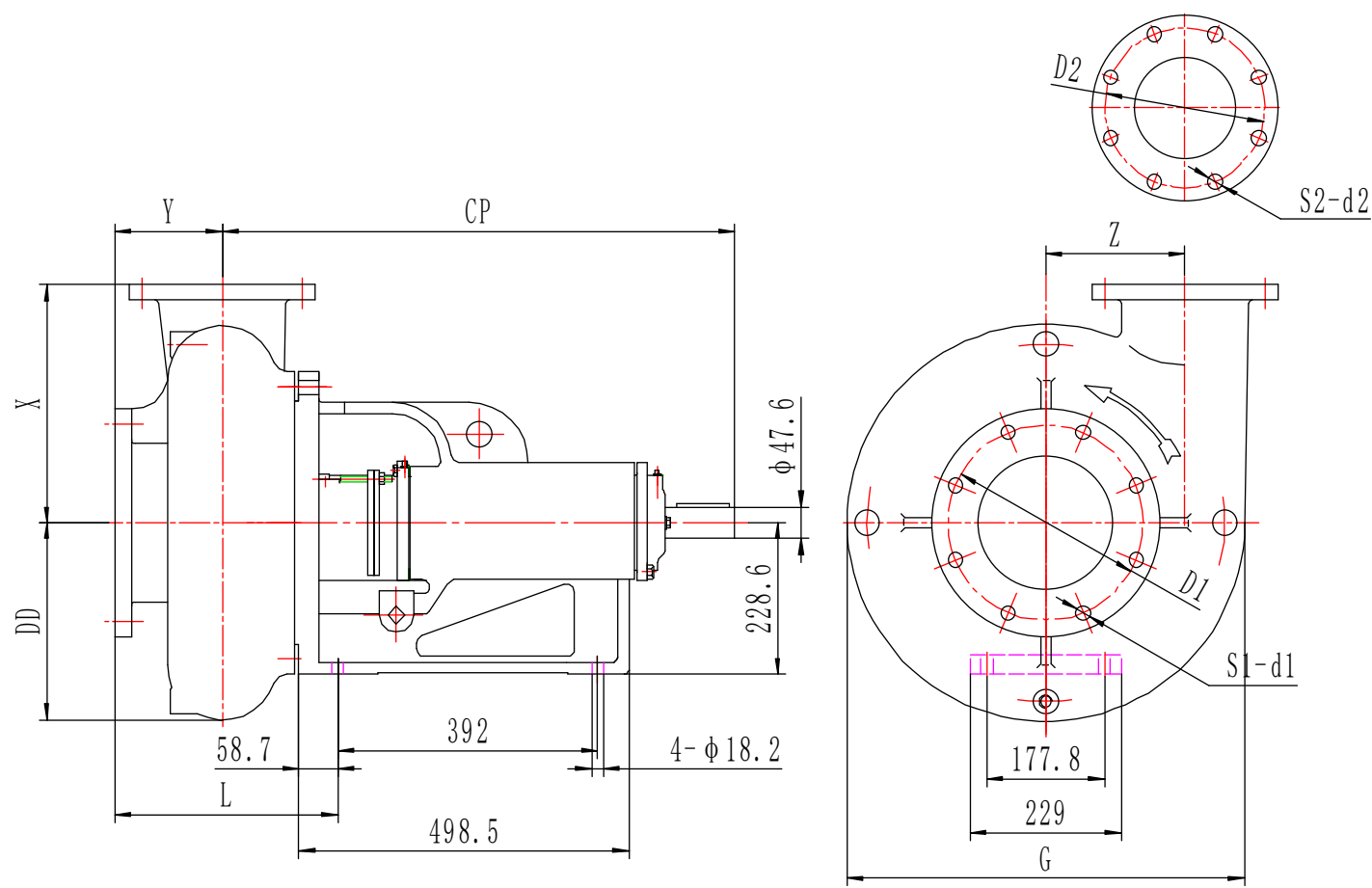
ITEM	Evergrow No.	Mission No.	DESCRIPTION	Material
1	S023939	20939-02-33	Shaft, Short pump	42CrMo
2	S021938	20938-02-1	Frame, Short pump	HT250
3	S014324	2224-01-43	Housing, Hydraulic Outboard Bearing	QT700
4	S011225	22225-01-01	Adapter, Hydraulic Drive	QT500
Parts for Short Pumps (All parts for short pumps are identical to the EG-250 except the above)				

EG-250 Pump



Model	RPM r/min	Capacity m³/h	Head m	Efficiency (%)	Power kW	Weight kg
10×8×14	1450/1750	260-300	35	65	75/90	1150/1300
8×6×14	1450/1750	240-260	33-37	65	55/75	830/1100
8×6×11	1450/1750	240	26	65	37/45	700/750
6×5×14	1450/1750	220-240	26-35	65	37/45	700/750
6×5×11	1450/1750	200	26	65	30/37	655/687
5×4×14	1450/1750	150	33	65	37	550
5×4×14	1450/1750	120	26	65	22	510
4×3×13	1450/1750	60-85	26-30	65	11/15	395/405
3×2×13	1450/1750	40-60	25-28	65	7.5/11	335/385

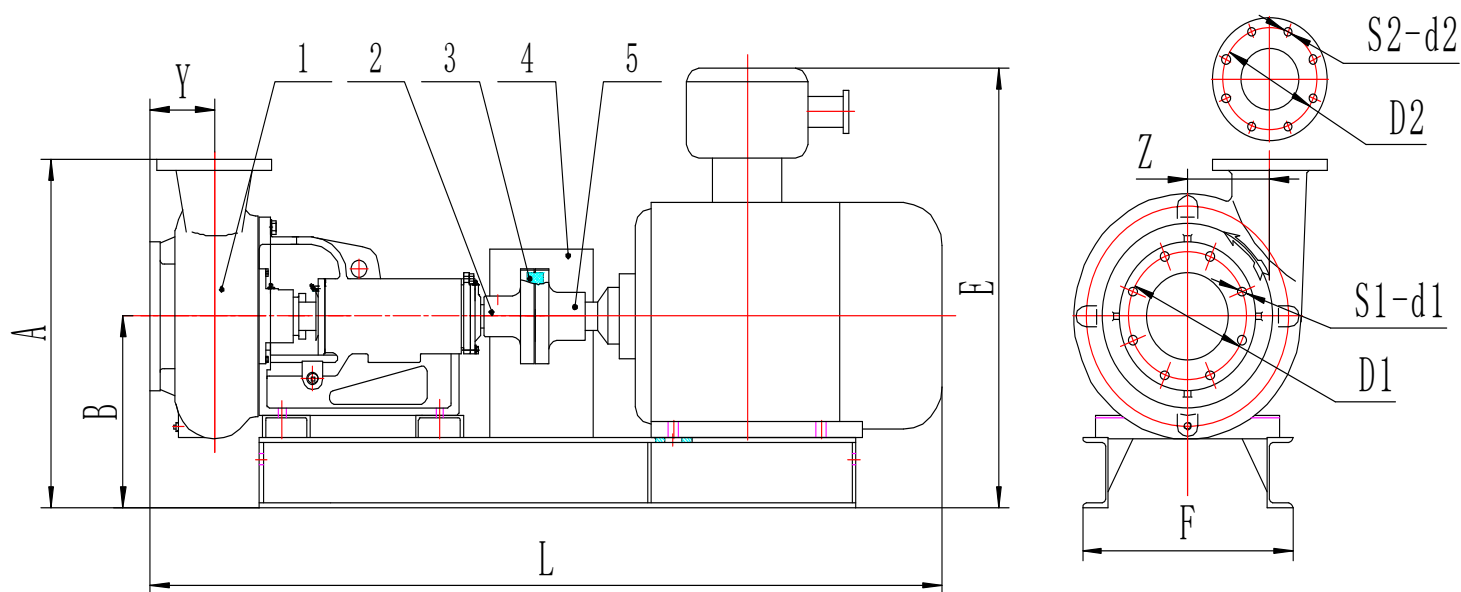
Single pump dimensions



Pump size	D1	S1-d1	D2	S2-d2	G	L	X	Y	Z	CP	DD	WT/kg
3×2×13	160/152.4	4-19	125/120	4-19	454	222	260.35	95.25	178	743	229	200
4×3×13	180/190.5	4-19	160/152.4	4-19	454	238	260.35	108	171.5	746	229	205
5×4×14	210/215.9	8-22	180/190.5	8-19	483	273	279.4	127	156	762	246	220
6×5×11	241.3	8-22	210/215.9	8-22	454	306.5	279.4	146	152.5	778	229	246
6×5×14	241.3	8-22	210/215.9	8-22	533	306.5	279.4	146	152.5	778	267	252
8×6×11	295/298.5	8-22	241.3	8-22	508	337	355.6	158.75	212.7	794	254	270
8×6×14	295/298.5	8-22	241.3	8-22	599	337	355.6	158.75	212.7	794	305	287
10×8×14	350/361.6	12-23	295/298.5	8-22	568	348	360.4	169.86	203.2	794	284	310

D1: metric/imperial, D2: metric/imperial

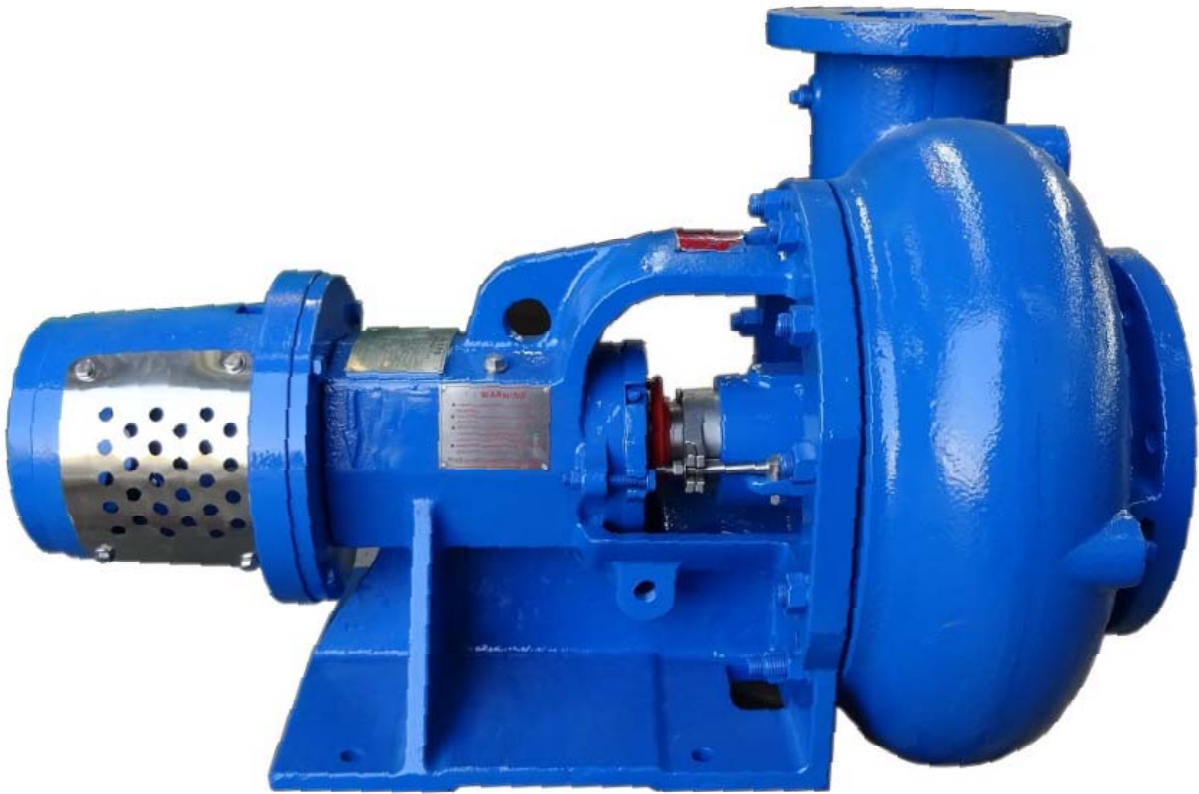
Pump with motors dimensions



Pump/kW	Dimensions										
	D1	S1-d1	D2	S2-d2	A	B	Y	L	E	F	Z
10×8×14/90	350/361.6	12-23	295/298.5	8-22	800	440	169.86	2067	950	650	203.2
10×8×14/75	350/361.6	12-23	295/298.5	8-22	800	440	169.86	2016	950	650	203.2
8×6×14/75	295/298.5	8-22	240	8-22	800	440	158.75	2000	950	650	212.7
8×6×14/55	295/298.5	8-22	240	8-22	770	410	158.75	1932	880	600	212.7
8×6×11/45	295/298.5	8-22	240	8-22	745	385	158.75	1877	850	585	212.7
8×6×11/37	295/298.5	8-22	240	8-22	745	385	158.75	1850	850	585	212.7
6×5×14/45	240	8-22	210/216	8-22	665	385	146	1848	850	585	152.5
6×5×14/37	240	8-22	210/216	8-22	665	385	146	1823	850	585	152.5
6×5×11/37	240	8-22	210/216	8-22	665	385	146	1823	850	470	152.5
6×5×11/30	240	8-22	210/216	8-22	648	368.6	146	1765	815	468	152.5
5×4×14/22	210/216	8-22	180/190.5	8-19	648	368.6	127	1695	714	462	156
4×3×13/15	180/190.5	8-19	160/152.4	4-19	609	349	108	1571	721	386	171.5
4×3×13/11	180/190.5	8-19	160/152.4	4-19	609	349	108	1531	673	386	171.5
3×2×13/11	160/152.4	4-19	125/120	4-19	609	349	95.25	1516	674	386	178
3×2×13/7.5	160/152.4	4-19	125/120	4-19	580.6	320.6	95.25	1391	609	386	178

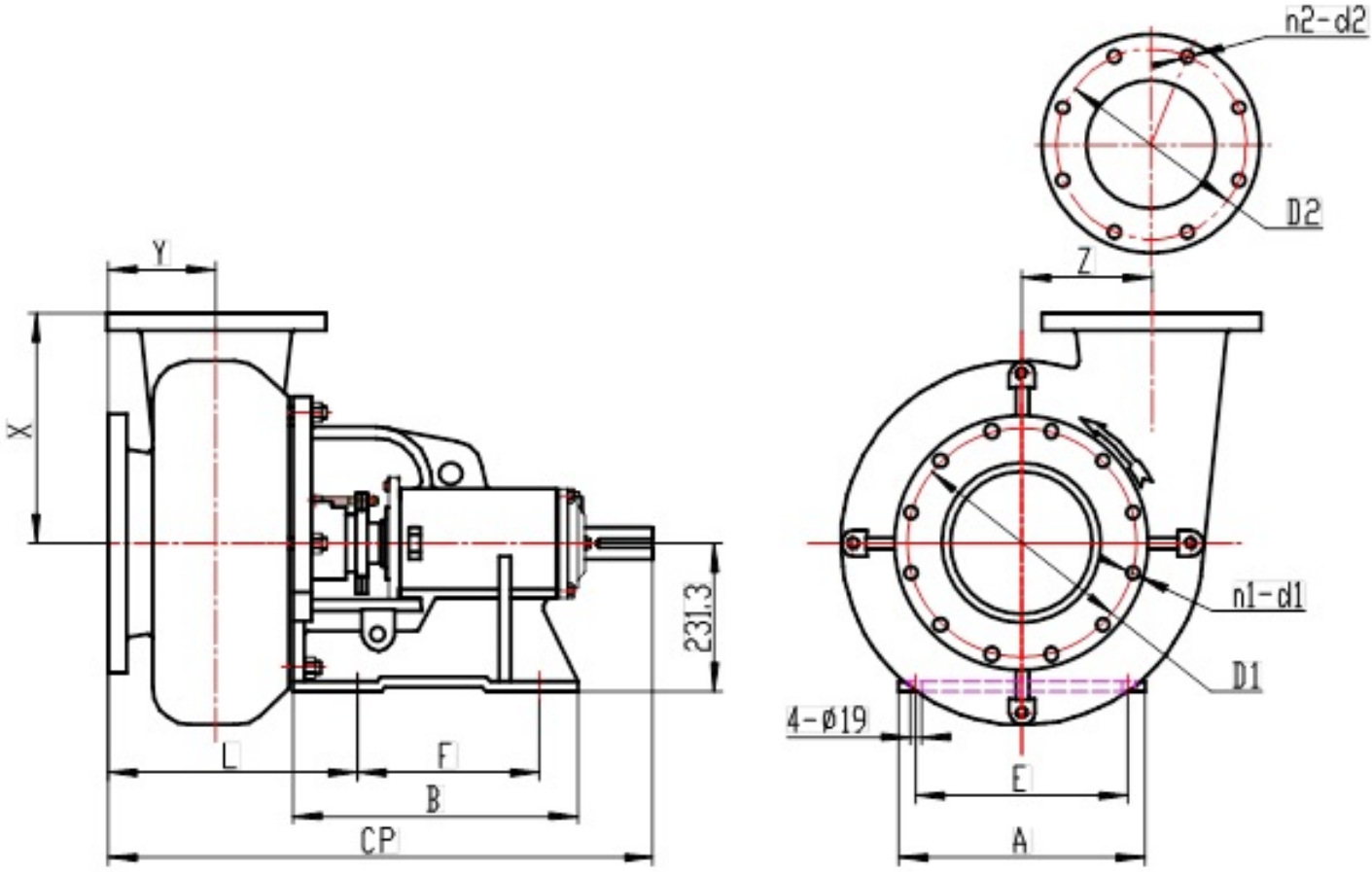
D1: metric/imperial, D2: metric/imperial

Short Pumps



Model	RPM	Capacity m³/h	Head	Efficiency	kW	Weight kg
10×8×14	1450/1750	280-320	33-40	65	75/90	1150/1300
8×6×14	1450/1750	240-260	33-35	65	55/75	830/1100
8×6×11	1450/1750	220-240	24-26	65	37/45	700/750
6×5×14	1450/1750	180-240	26-33	65	37/45/55	700/750
6×5×11	1450/1750	160-170	24-26	65	30/37	655/687
5×4×14	1450/1750	120-150	28-33	65	22/30/37	510/550
4×3×13	1450/1750	60-80	26-33	65	11月15日	395/405
3×2×13	1450/1750	40-60	24-28	65	7.5/11/15	335/385

Dimensions



Model	Dimension(mm)																
	D1		n1-d1		D2		n2-d2		A	B	E	F	L	X	Y	Z	CP
	metric	imperial	metric	imperial	metric	imperial	metric	imperial									
10×8×14	350	361.6	12-23	12-25	295	298.5	8-22	8-22.2	387	449	333.38	285.75	391.5	360.4	169.86	203.2	856.8
8×6×14	295	298.5	8-22	8-22.2	240	241.3	8-22	8-22.2	387	449	333.38	285.75	380.1	355.6	158.75	212.7	845.5
8×6×11	295	298.5	8-22	8-22.2	240	241.3	8-22	8-22.2	387	449	333.38	285.75	380.1	355.6	158.75	212.7	845.5
6×5×14	240	241.3	8-22	8-22.2	210	215.9	8-22	8-22.2	387	449	333.38	285.75	348.65	279.4	146	152.5	814
6×5×11	240	241.3	8-22	8-22.2	210	215.9	8-22	8-22.2	387	449	333.38	285.75	347.15	279.4	146	152.5	812.5
5×4×14	210	215.9	8-22	8-22.2	180	190.5	8-19	8-19	387	449	333.38	285.75	316.1	279.4	127	156	781.5
4×3×13	180	190.5	8-19	8-19	160	152.4	4-19	4-19	387	449	333.38	285.75	281.1	260.35	108	171.5	746.5
3×2×13	160	152.4	4-19	4-19	125	120	4-19	4-19	387	449	333.38	285.75	263.35	260.35	95.25	178	728.7



EVERGROW

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ISO Certified R&D, Sales of Centrifugal pumps
and Spare parts.