

FPX



ES SERIES

Mixed Flow Pumps

DESIGN & FEATURES

ES series pumps are end suction volute casing in back pull out design with mixed flow impeller. These are offered mainly for high flow and relatively lower heads. The delivery nozzle can be offered in various orientations to suit the piping layout.



APPLICATIONS



Wastewater
Handling



Fish
farming



Sea
Water



Flood
Control



Water
Treatment



Cooling Water
Supply

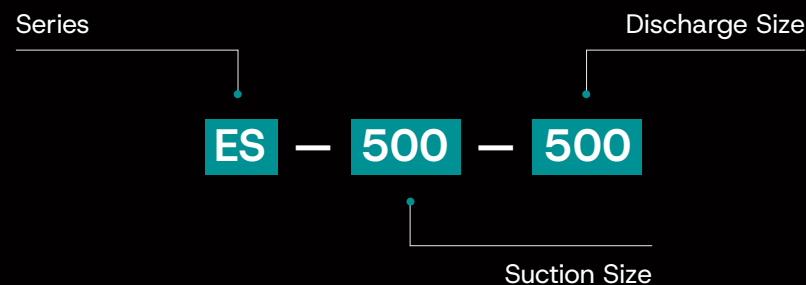


Drainage



Irrigation

MODEL NOMENCLATURE



DESIGN & STRUCTURE

CONSTRUCTION	Back Pull Out type
CASING TYPE	Volute
FLANGE	DIN standard
MOUNTING	Horizontal as well as Vertical

MATERIAL

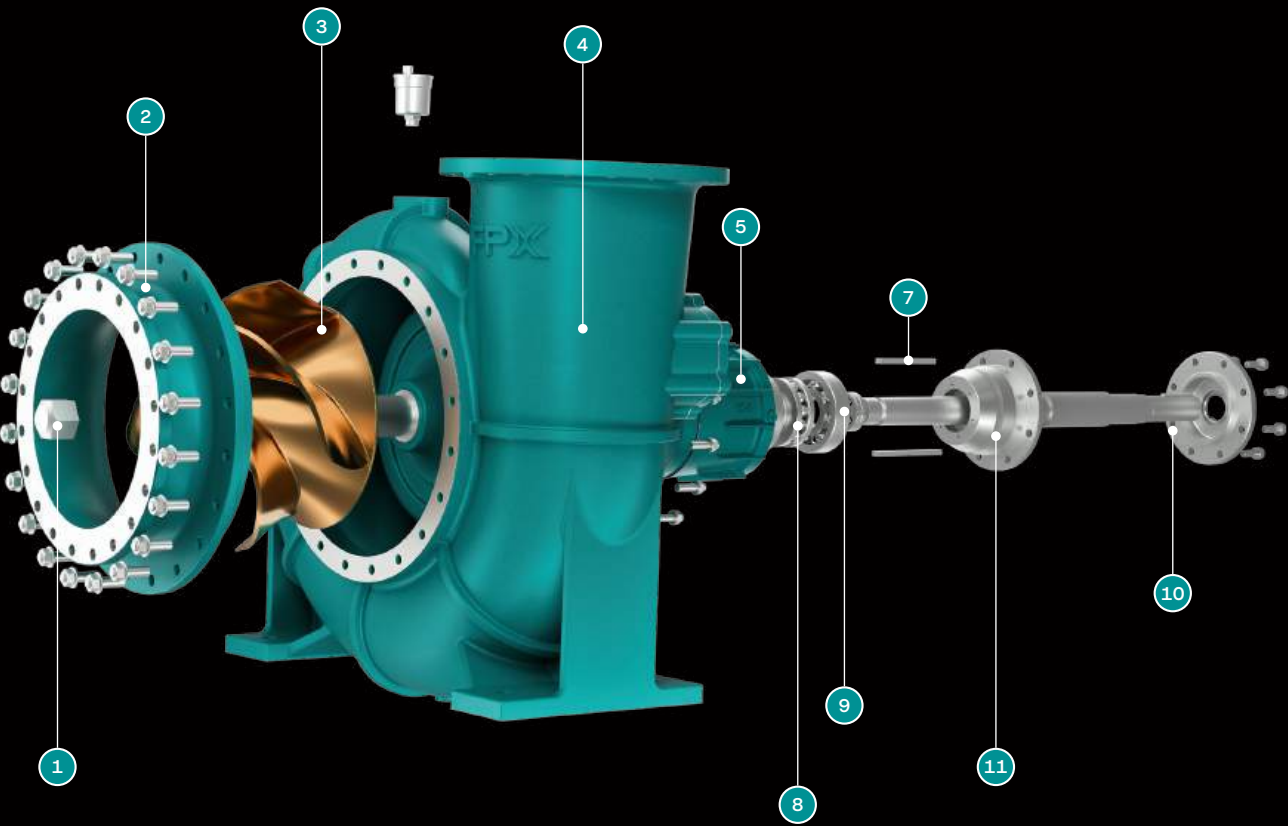
CASING	Cast Iron, Carbon Steel, Stainless Steel, Duplex, Super Duplex
IMPELLER	Cast Iron, Carbon Steel, Stainless Steel, Duplex, Super Duplex
SHAFT	Carbon Steel, Stainless Steel, Duplex, Super Duplex

OPERATING DATA

DN	250 mm up to 600 mm (24 inches)
FLOW	Up to 6,000 m3/hr (26,400 US gpm)
HEAD	Up to 25 m (82 ft)
PRESSURE	PN10
SPEED	Up to 1450 rpm



PART DETAILS



PART NO.	PART NAME
1	IMPELLER LOCK NUT
2	SUCTION COVER
3	IMPELLER
4	PUMP CASING
5	BEARING HOUSING
6	PUMP SHAFT
7	KEY
8	THRUST BALL BEARING
9	DEEP GROOVE BALL BEARING D.E.
10	BEARING COVER D.E.
11	CARTRIDGE D.E.
12	INSPECTION HOLE COVER
13	GASKET
14	GASKET
15	LOCK WASHER FOR IMPELLER NUT
16	SHAFT SLEEVE
17	GLAND PACKING

PART NO.	PART NAME
18	LANTERN RING
19	GLAND SPLIT
20	LIQUID DEFLECTOR
21	GRUB SCREW
22	BEARING COVER N.D.E
23	OIL SEAL N.D.E.
24	CARTRIDGE D.E.
25	GASKET
26	BEARING NUT
27	BEARING LOCK WASHER
28	CIRCLIP
29	COMPRESSION SPRING FOR THRUST BEARING
30	BEARING COVER D.E.
31	GASKET
32	OIL SEAL D.E.
33	KEY FOR COUPLING
34	AIR RELEASE VALVE

ENGINEERING & DESIGN

DESIGN & STRUCTURE

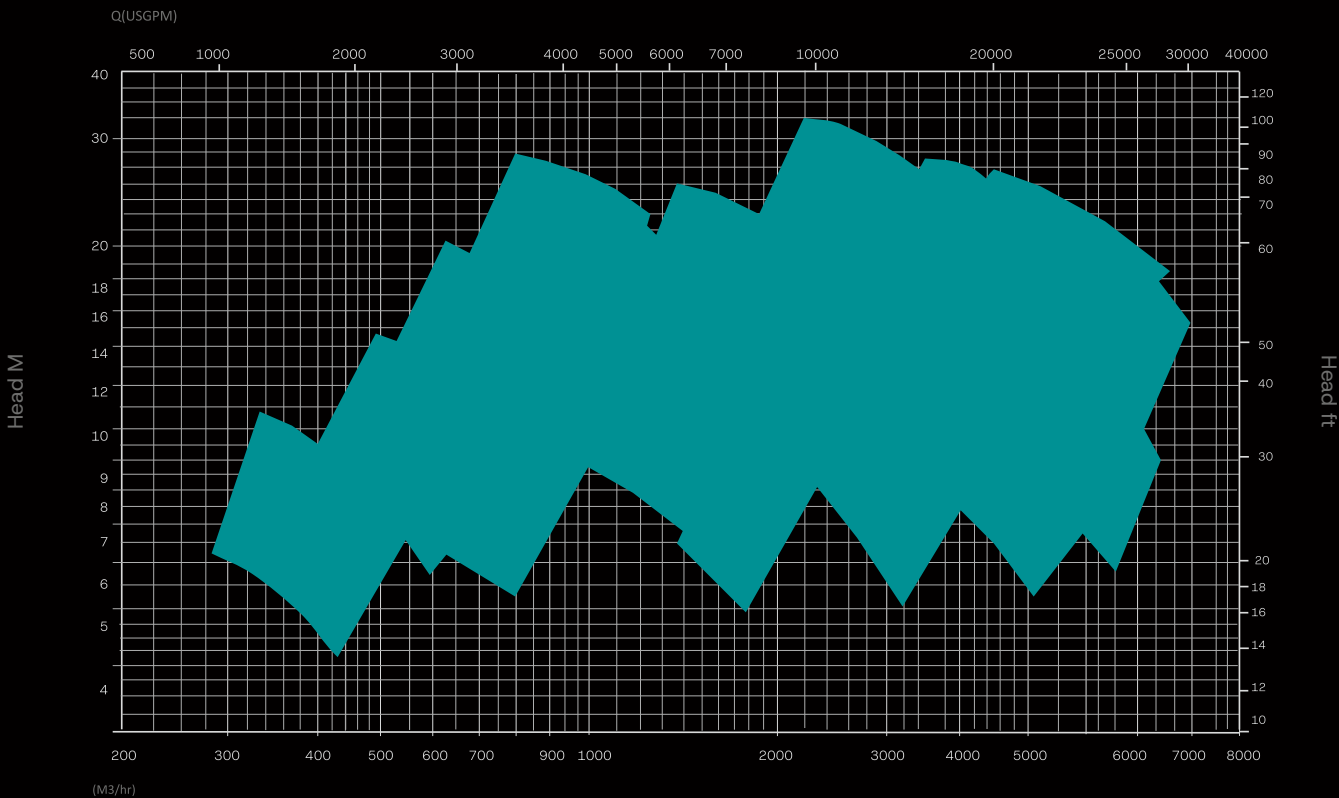
- Back pull-out construction for simplified maintenance
- Heavy-duty shaft with minimum dynamic deflection
- Robust bearing arrangement for long service life
- Large oil sump for effective cooling
- Volute casing designed to minimise clogging

CONSTRUCTION DETAILS

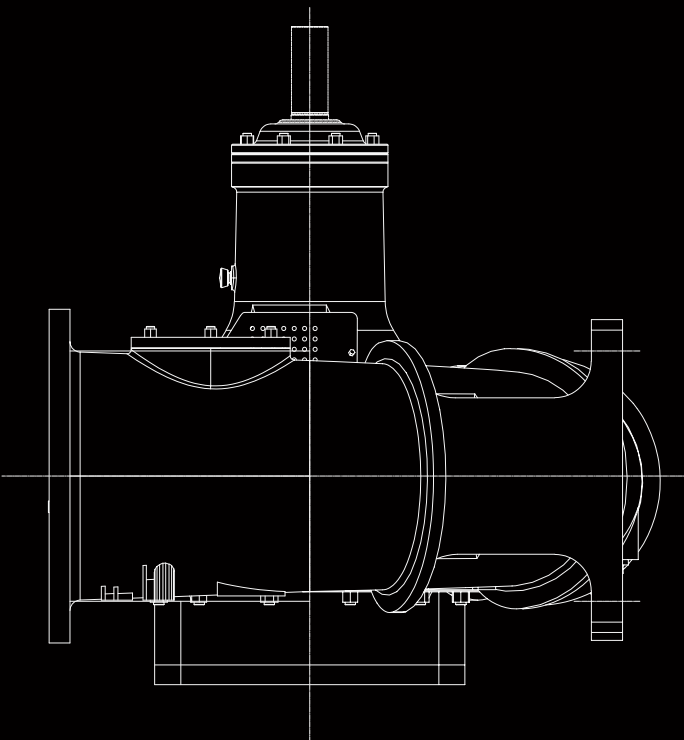
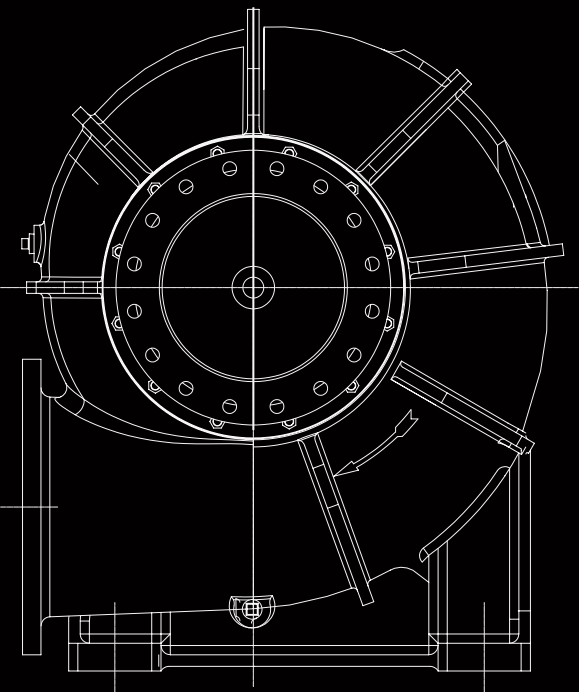
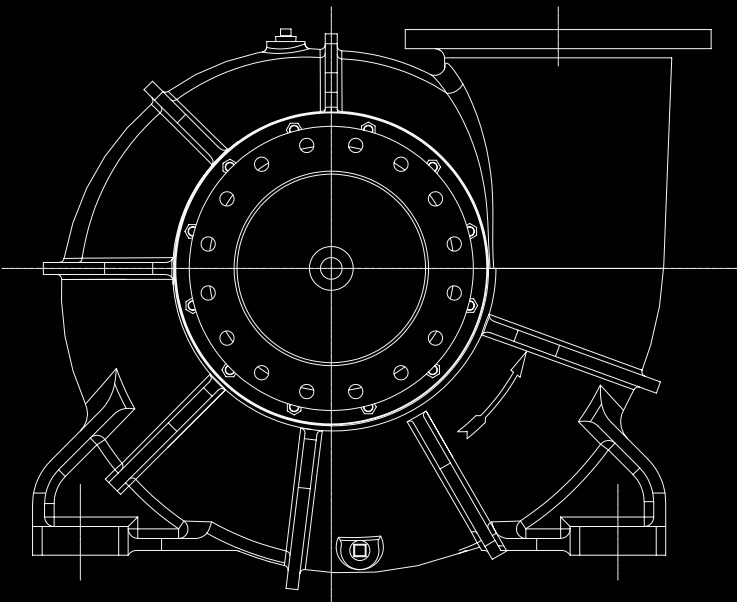
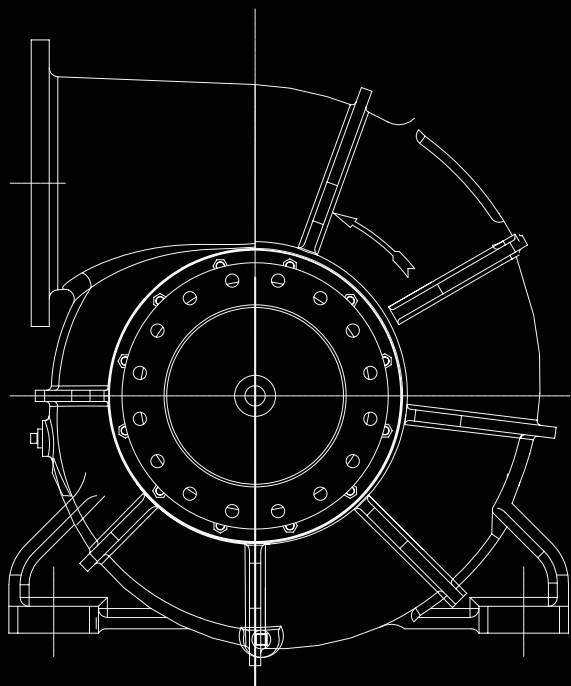
- Reinforced casing with external ribs
- Semi-open impeller design
- Replaceable suction cover to extend wear life
- Heavy-duty mounting feet for improved stability

PERFORMANCE RANGES

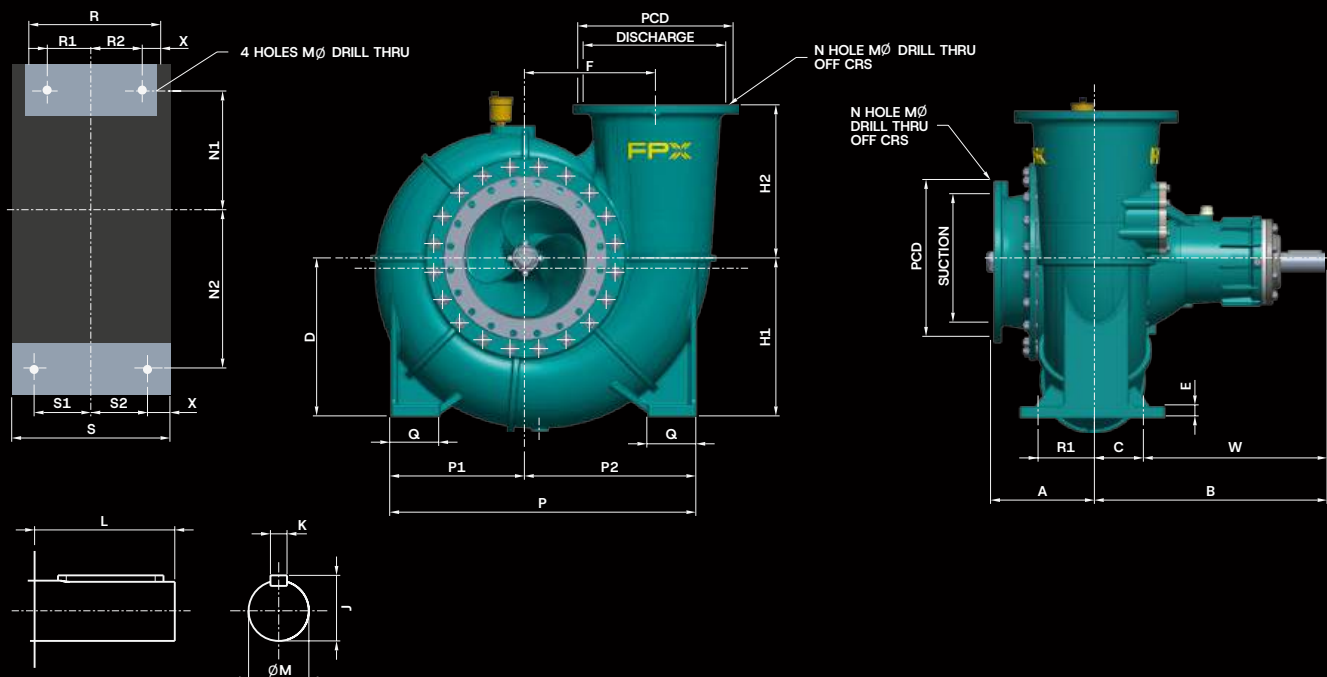
50 Hz



DELIVERY NOZZLE ORIENTATIONS



ES DIMENSIONAL DETAILS



SR. NO	PUMP TYPE	PUMP DIMENSIONS										SHAFT END DIMENSIONS			
		SUC.	DEL.	A	B	C	E	H1	H2	D	F	ØM	J	K	L
1	ES 175-200	175	200	200	564	102	32	250	230	255	208	32	35,5	10	80
2	ES 200-250	200	250	215	545	120	40	280	275	290	240	32	35,5	10	80
3	ES 250-250	250	250	248	545	120	40	280	275	290	240	32	35,5	10	80
4	ES 250-300	250	300	245	620	145	50	355	320	370	300	42	46	12	110
5	ES 300-300	300	300	285	620	145	50	355	320	370	300	42	45,5	12	110
6	ES 300-350	300	350	295	707	161	85	400	370	435	355	50	54,0	14	120
7	ES 350-350	350	350	345	670	176	85	400	400	442	375	50	54,0	14	120
8	ES 350-400	350	400	345	670	195	100	500	440	520	415	50	54,0	14	120
9	ES 400-400	400	400	390	872	182	85	470	450	515	428	70	76,0	20	170
10	ES 400-450	400	450	400	862	185	85	600	500	590	475	70	76,0	20	170
11	ES 500-500	500	500	490	960	212	140	600	625	648	535	80	87,0	25	170
12	ES 550-600	550	600	540	920	260	135	800	680	825	650	80	87,0	25	170
13	ES 650-650	600	650	590	1047	297	214	800	850	890	710	100	108,0	28	210

SR. NO	PUMP TYPE	FEET DIMENSIONS																	
		T	Q	P1	P2	P	U	V	N1	N2	R1	R2	R	X	S1	S2	S	KØ	W
1	ES 175-200	24	110	270	320	590	140	140	215	265	90	110	260	30	110	110	280	7/8"	474
2	ES 200-250	26	120	310	360	670	155	155	250	300	100	120	290	35	120	120	310	1"	445
3	ES 250-250	26	120	310	360	670	155	155	250	300	100	120	290	35	120	120	310	1"	445
4	ES 250-300	32	140	385	450	835	190	190	315	380	120	140	360	50	140	140	380	1 1/8"	500
5	ES 300-300	32	140	385	450	835	190	190	315	380	120	140	360	50	140	140	380	1 1/8"	500
6	ES 300-350	36	170	470	550	1020	225	225	385	465	150	170	430	55	170	170	450	1 1/4"	557
7	ES 350-350	36	170	470	550	1020	225	225	385	465	140	170	420	55	170	170	450	1 1/4"	530
8	ES 350-400	40	200	530	620	1150	265	265	430	520	170	200	500	65	200	200	530	1 3/8"	500
9	ES 400-400	56	196	663	733	1396	280	280	565	635	170	210	520	70	210	210	560	1 3/8"	702
10	ES 400-450	60	200	625	700	1325	315	300	525	600	225	255	600	60	240	240	600	1 3/8"	637
11	ES 500-500	60	200	660	790	1450	310	310	560	690	195	245	570	65	245	245	620	1 3/8"	765
12	ES 550-600	75	250	800	950	1750	380	380	675	825	265	305	720	75	305	305	765	1 5/8"	655
13	ES 650-650	75	270	925	1075	2000	400	400	790	940	265	325	740	75	325	325	782	1 5/8"	782



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