



CEP DOUBLE SUCTION SPLIT CASE PUMPS

TECHNICAL DETAILS:

The **Masflo-CEP** series pumps designed for general purposes are made of double entry, single stage with casings axially split.

Mounting arrangements are available in both horizontal and vertical forms.

Removal of upper half of the casings allows easy pump inspection, maintenance and removal of entire rotating elements without disturbing piping or motor and pump alignment.

Masflo-CEP series are fitted with casing wear rings with impeller wear rings provided on request.

Masflo-CEP series pumps cover the range from 15 up to 3000 litres/sec with manometric head from 8 to 175 meters.

Pumps are assembled for clockwise rotation when seen from drive end. Direction of rotation can be changed optionally.

Operating temperature: -10°C up to +120°C

Shafts of CEP series pumps are supported by 3 heavy duty type bearings which are greas lubricated as standard, oil lubrication available optionally.

CEP series pumps have specially designed high efficiency (EFF) double suction, closed type impellers with curved vanes.



CEP SERIES PUMPS OPERATION RANGE : Qmax : 9500 m³/h Hmax : 180 m

COMPONENT	MATERIAL	
	BRONZE VERSION	CAST IRON VERSION
Casing	Cast iron (GJL 250) (EN-JL 1040)	Cast iron (GJL 250) (EN-JL 1040)
Impeller	Bronze	Cast iron (GJL 250) (EN-JL 1040)
Wear ring	Bronze	Cast iron (GJL 250) (EN-JL 1040)
Shaft	Stainless steel (AISI 420) (1.4021)	Carbon steel (1.0501)
Shaft sleeve	Stainless steel (AISI 420) (1.4021)	Stainless steel (1.4021)
Shaft sealing	Soft packing / Mechanical seal	Soft packing / Mechanical seal
Painting	RAL 5010	RAL 5010

• Different materials (Duplex Steel, AlNi Bronze, AISI 316, Cast Steel, etc.) are available according to fluid specifications.

FIELDS OF APPLICATION

Masflo-CEP series pumps are suitable for

- Water Supply
- Irrigation and spraying systems,
- Drinking water supplies to buildings, communities and towns,
- Pumping liquids with low viscosity (i.e gasoline, oil, acid base etc.) in industries,
- Cooling water systems,
- Industrial plants on duty 24 hours a day, like Iron & Steel works.
- Paper and cellulose industries.

CEP V DOUBLE SUCTION VERTICAL SPLIT CASE PUMPS:

- The hydraulic characteristics and available sizes are same as **Masflo CEP** series horizontal split case pumps.
- Vertical mounting arrangement allows drive motor to be mounted vertically, this is an advantage in installations where effective use of space is crucial.
- Drive motors can be mounted on CEP V series pumps by means of motor stool, or motor and pump can be connected by cardan shaft.
- Pump bases are of cast iron or sheet metal construction depending on pump size, where as motor stools are of sheet metal construction.

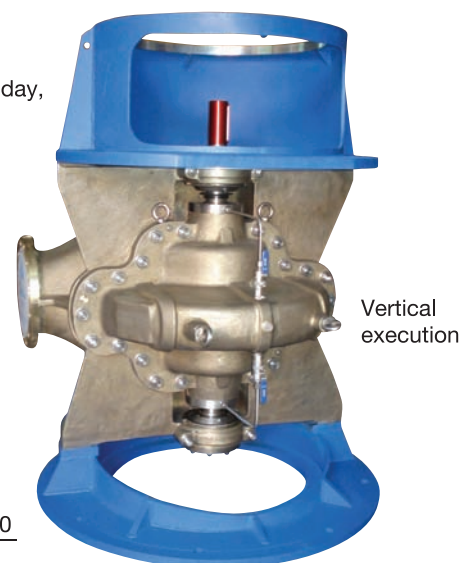
IMPELLER

- Due to the impeller being of double suction: No axial thrust exerted on bearings
Pump can be operated at relatively unfavourable suction conditions.
- Every impeller is balanced statically and dynamically, according to ISO 1940 class 6,3.

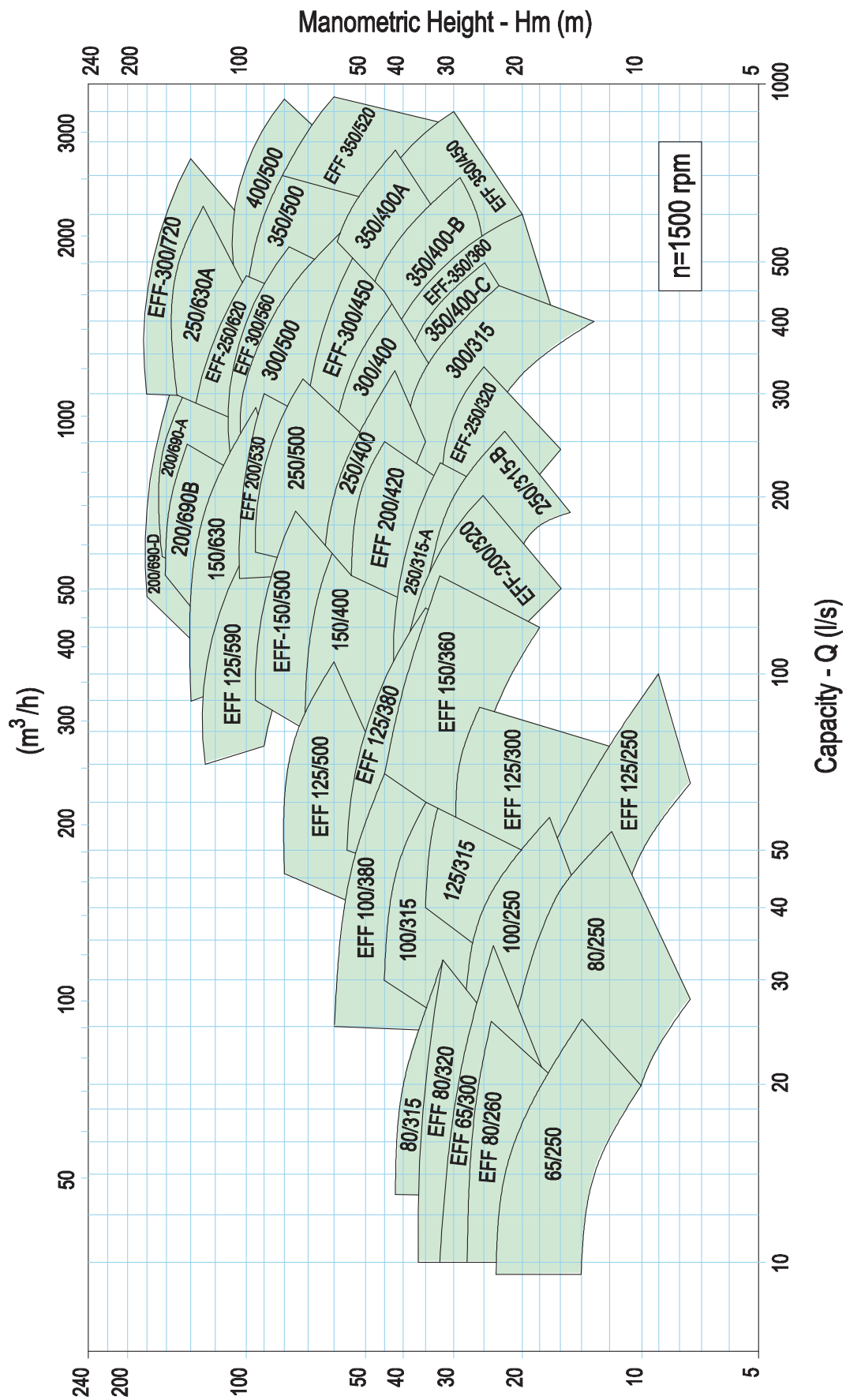
DESIGNATION

CEP 250 / 500

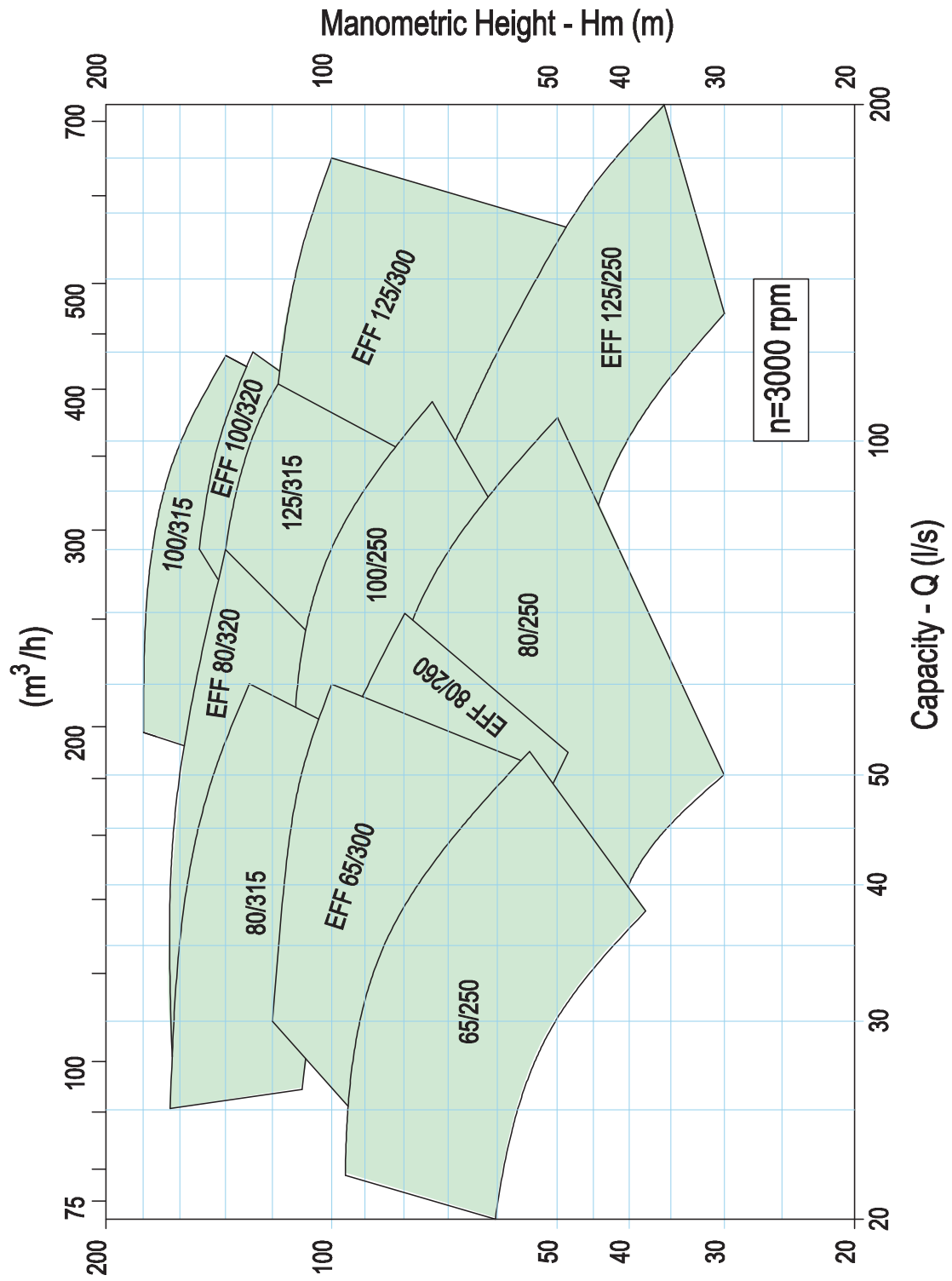
↑ Impeller diameter
↑ Discharge diameter
↑ Pump type



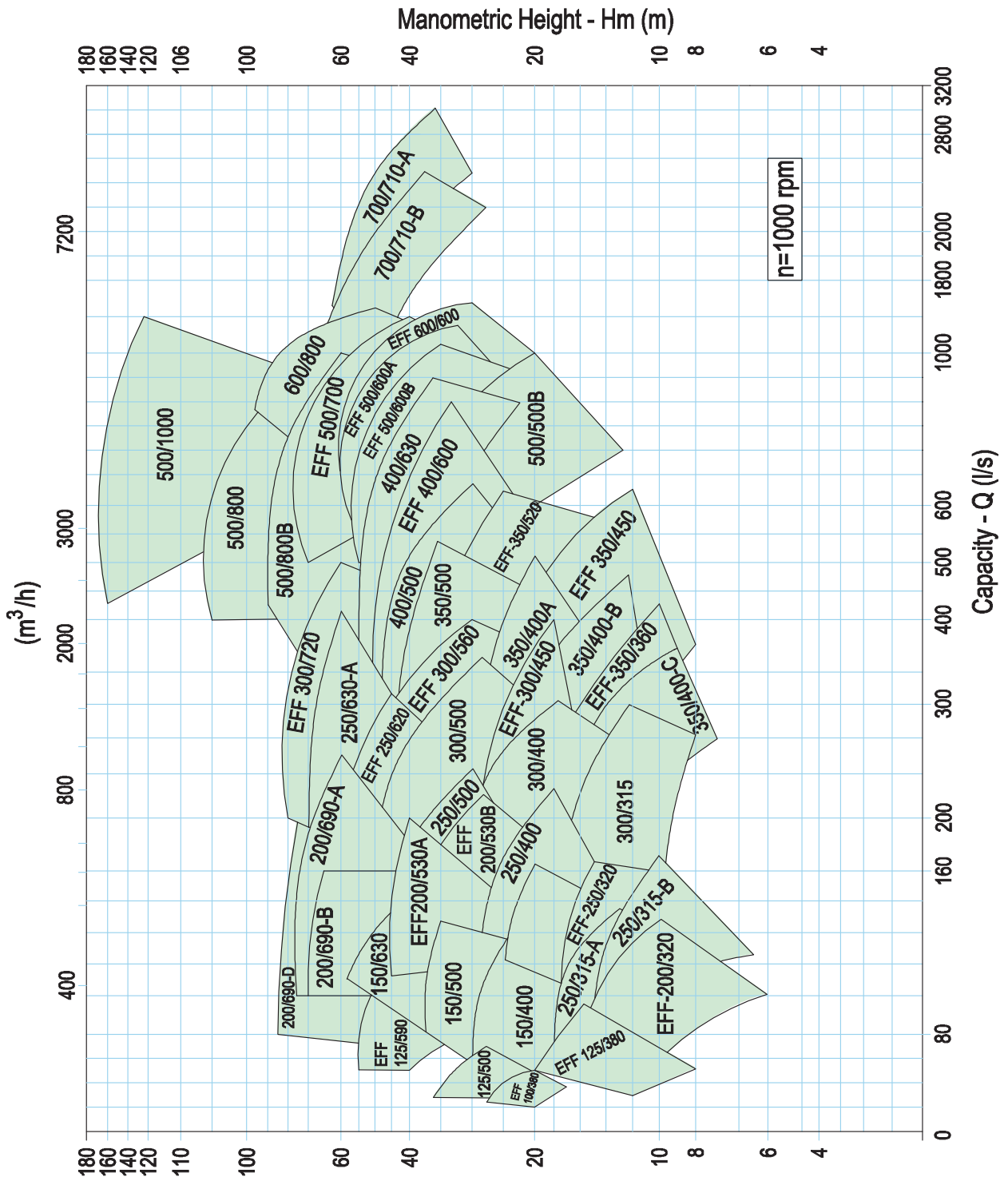
DOUBLE SUCTION SPLIT CASE PUMPS PERFORMANCE CURVES

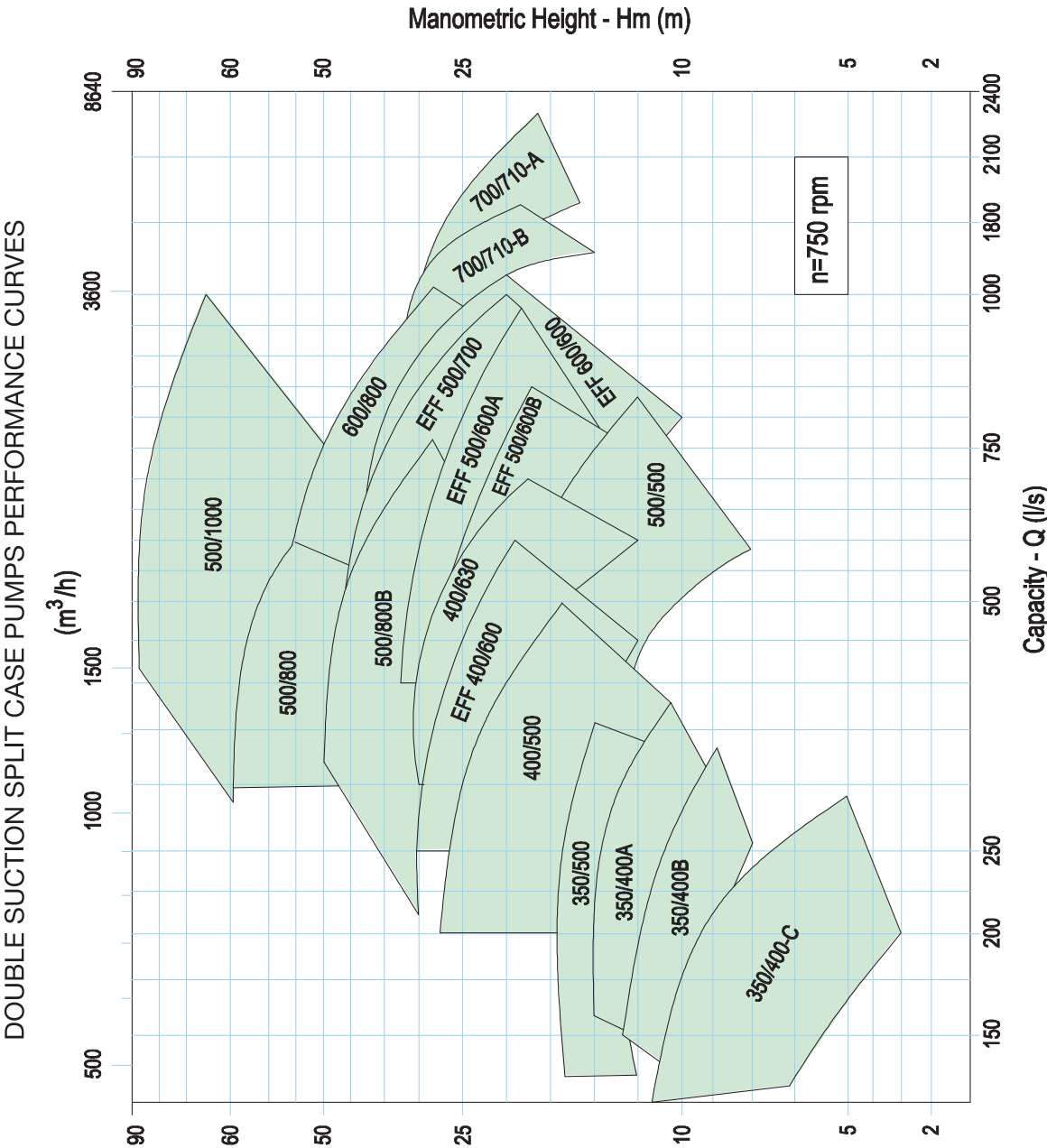


DOUBLE SUCTION SPLIT CASE PUMPS PERFORMANCE CURVES

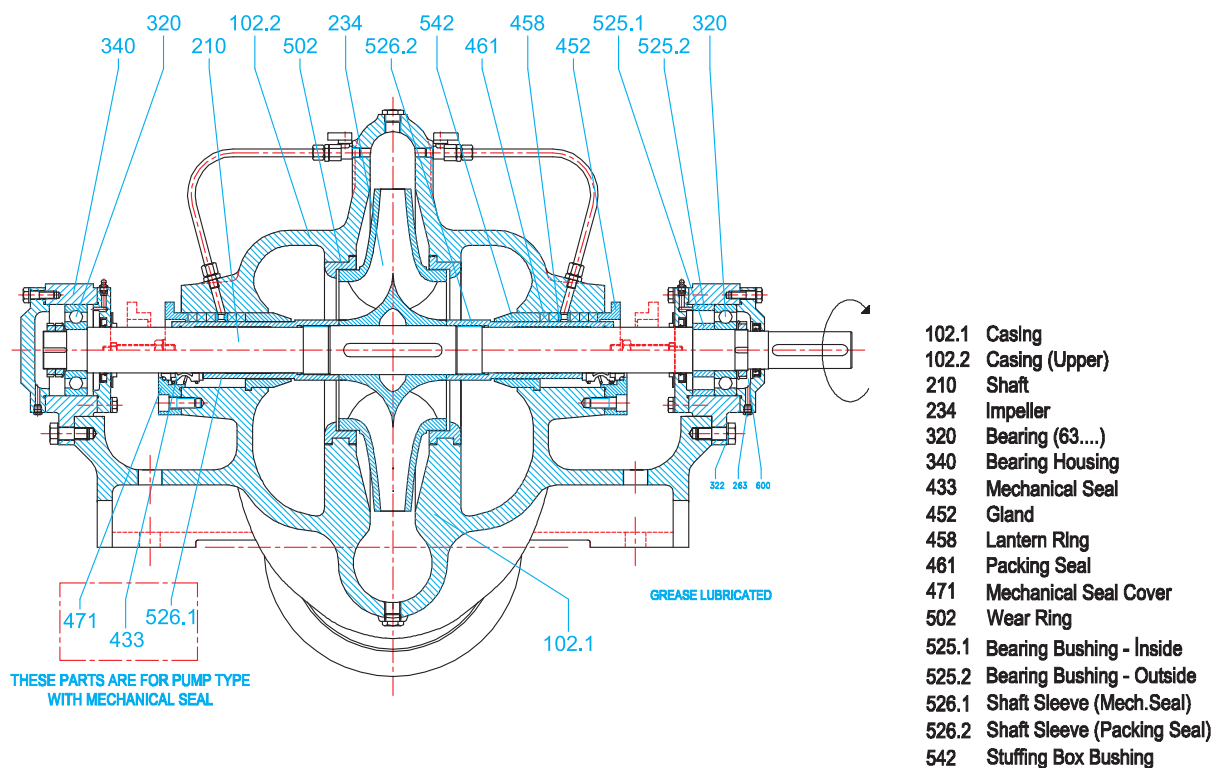


DOUBLE SUCTION SPLIT CASE PUMPS PERFORMANCE CURVES

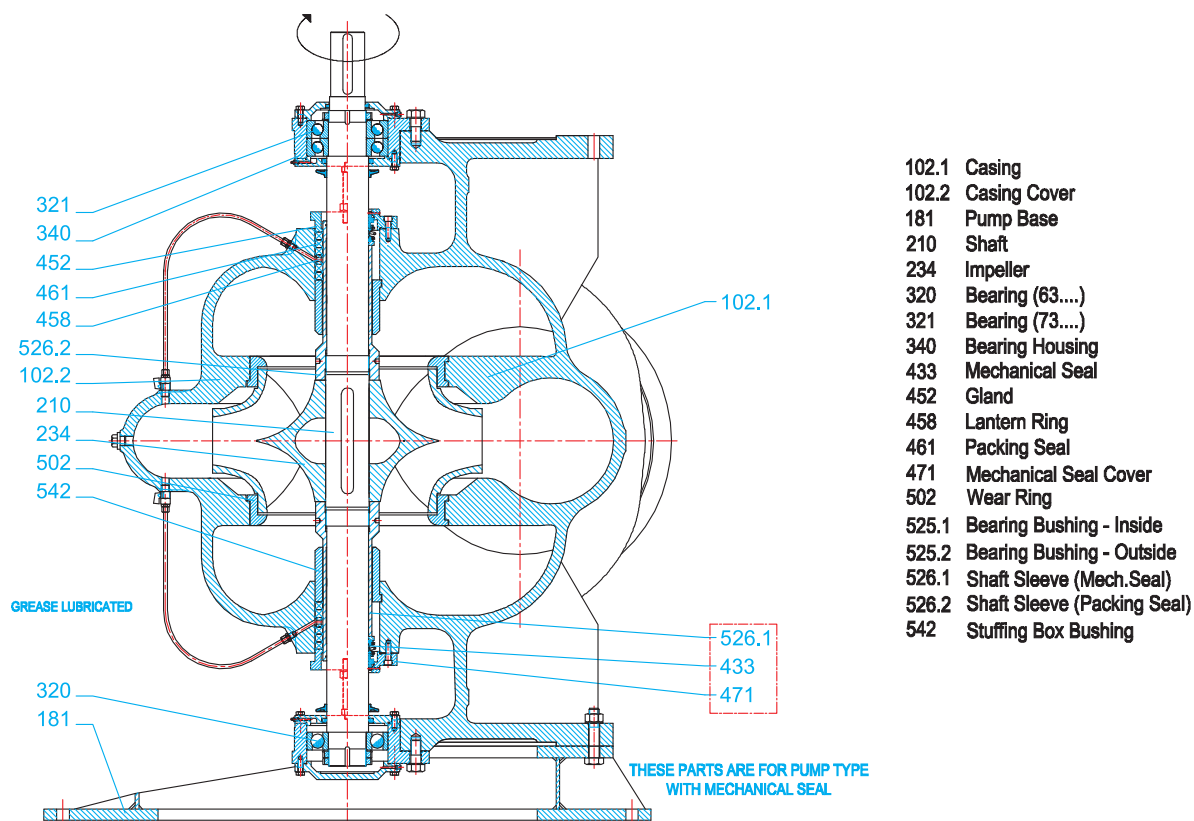




CEP SERIES HORIZONTAL PUMPS CROSS SECTIONAL DRAWING AND PARTS LIST

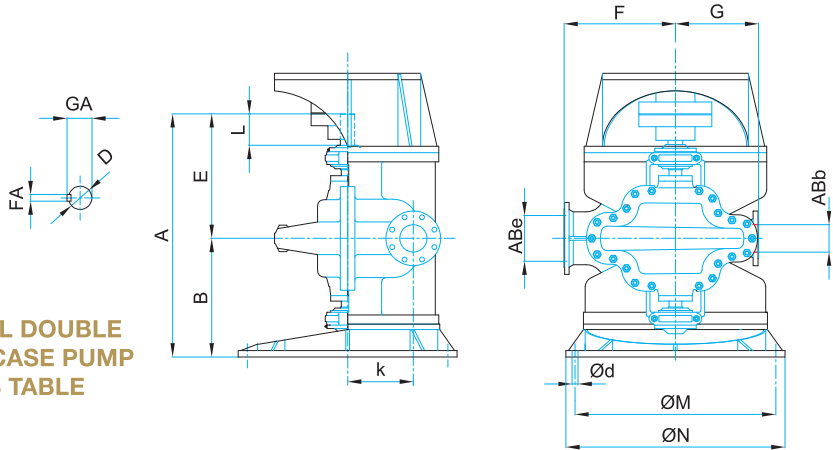


CEP - V SERIES VERTICAL PUMPS CROSS SECTIONAL DRAWING AND PARTS LIST

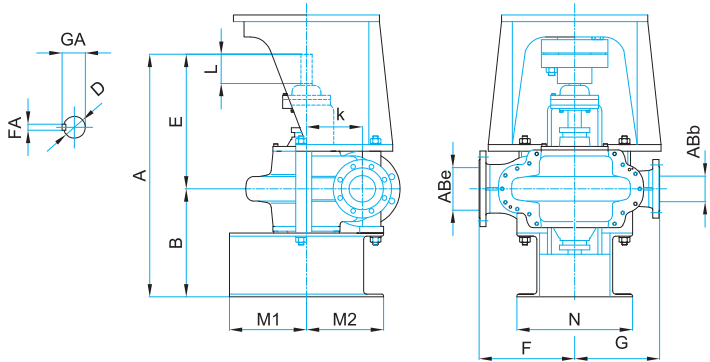


NOTE : Cross sectional drawing is for information, actual part list subject to change according to ordered type construction

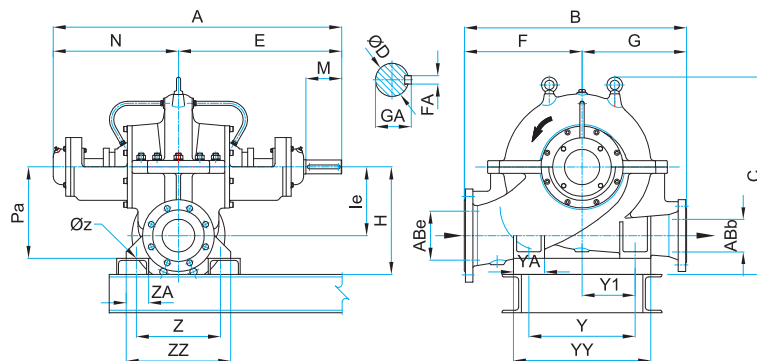
CEP-V, VERTICAL DOUBLE
SUCTION SPLIT CASE PUMP
DIMENSIONS TABLE



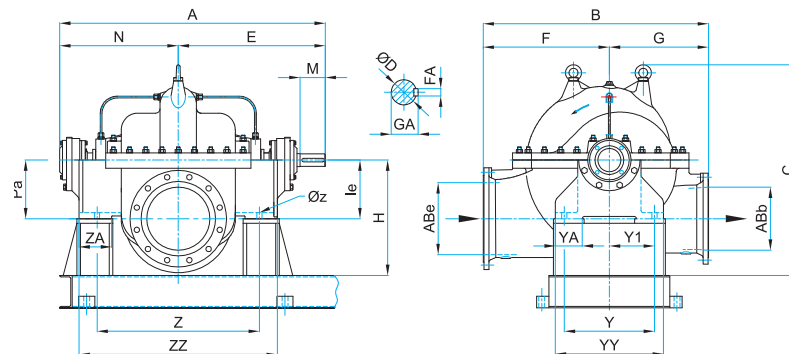
PUMP TYPE	Discharge ABb	Suction ABe	A	B	E	F	G	N	M	Ød	Piece	k	L	D	GA	FA	GROUP				
CEP 125/315	125	200	975	490	485	370	370	1200	1100	33	8	200	110	48	51.5	14	A				
CEP 150/400	150	250	1095	545	550	455	395					230									
CEP 150/630			1305	575	685	600	450					245						140	64	68	18
CEP 200/690	200	300	1455	595	705	700	550					250						150	70	74.5	20
CEP 250/315	250		1170	535	635	450	400					225						140	64	68	18
CEP 250/400			1160	530	630	550	500														
CEP 250/500																					
CEP 250/630	250	400	1770	875	895	695	510	1625	1520	33	8	390	210	95	100	25	B				
CEP 300/315	300	350	1450	750	700	585	508					315	140	64	68	18					
CEP 300/400			1385	730	655	505	500					250	150								
CEP 300/500	1430	695	580		550	315															
CEP 350/400	350	400	1520	785	735	600	500					355	140	70	74.5	20					
CEP 350/500			650	550																	
CEP 400/400	400	500	1670	855	815	705	505					450	170	90	95	25					
CEP 400/500						680	550														
CEP 400/630						1750	885											865	800	650	
CEP 500/500	500	600	1825	910	915																
CEP 500/800	500	600	2005	1010	995	905	805	2200	2000	33	8	545	210	105	111	28	C				
CEP 600/800	600	700	2255	1110	1145	875	875					695									
CEP 700/700	700	800	2650	1330	1320	1400	800					620									



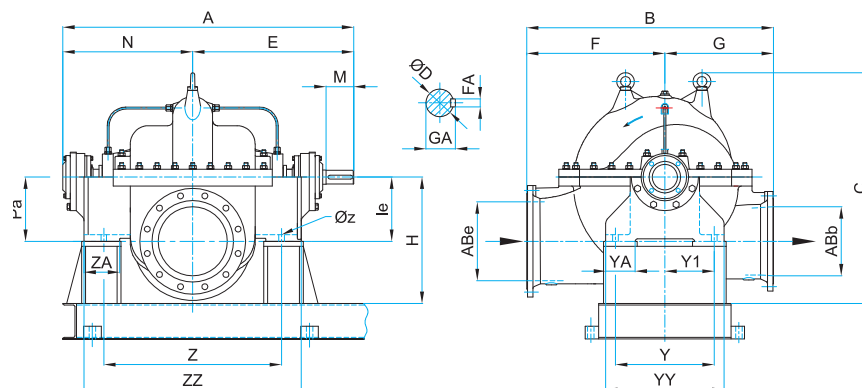
PUMP TYPE	ABb	ABe	A	B	E	M1	M2	F	G	N	k	L	D	GA	FA
CEP 65/250	65	100	575	260	315	190	190	280	225	330	130		28	31	8
CEP 80/250	80	125	685	370	250	250				380		60			
CEP 80/315			810		340	240	240	300	280	370	165		34	37	10
CEP 100/250	100	150	760	350	410	285	285	310	300	325	185	100			
CEP 100/315			905	405	500	300	300	360	320	435	210	110	42	45	12



PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	Ie	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)
ÇEP 65/250	65	100	555	505	490	245	310	280	225	270	130	190	60	28	31	8	250	125	330	80	200	240	-	18	90
ÇEP-EFF 65/300			765	600	620	340	425	320	280	360	150	310													200
ÇEP-EFF 80/210			790	525	540	352	438	300	225	310	130	260													180
ÇEP 80/250	80	125	745	715	530	330	415	290	235		170	250	80	34	37	10	305	125	375	70	260	300	-	23	180
ÇEP-EFF 80/260			790	615	560	350	440	330	285		165	245													227
ÇEP 80/315			750	580	605	335	415	300	280		186	245													195
ÇEP-EFF 80/320			790	615	580	350	440		285		165	250													250
ÇEP-EFF 80/380			875	630	690	380	495	330	300	360	220	335													248
ÇEP 100/250	100	150	855	548	635	370	485		218		335	190	110	42	45	12	355	177.5	455	105	285	325	-	23	232
ÇEP 100/315			900	680	565	390	510		360		320	210													253
ÇEP-EFF 100/320			965	690	425	540		320		390	180	340													297
ÇEP-EFF 100/380			985	740	720	435	550	420		385	225	335													335
ÇEP-EFF 125/250	125	200	950	740	600	415	535	370	370	405	180	355					355	177.5	455	105	290	340	-		340

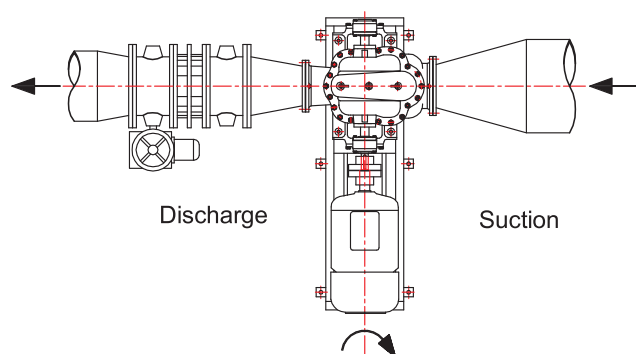


PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	Ie	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)																										
CEP-EFF 125/300	125	200	1015	680	740	450	565	370	310	400	200	200	110	42	45	12	410	205	475	100	570	730	140	23	350																										
CEP 125/315			925	740	700	405	520		370																												365														
CEP-EFF 125/380			1015		810	450	565		450	435	235	235																				480	100	620	730	105	495														
CEP-EFF 125/500			960	850	870	425	535		400	450	295	250																					500	120	530	650	130	560													
CEP 125/590			1175	950	980	515	660	525	425	530	330	330													140	62	66	18	410	205			110	650	795	150	150	700													
CEP-EFF 150/300	150	200	1075	900			595	500	400	400	200	200	110	42	45	12	400	200	465	100		790	140		466																										
CEP-EFF 150/360			860					460																													520														
CEP 150/400			250	1055	850	850	470	585	455	395	480	230													230	140	62	66	18	360	180	445	222.5	525	125	680	880	195	565												
CEP-EFF 150/410			200	1095	900		490	495	450	450		260													260																										595
CEP-EFF 150/500			1235	1030	1020	545	690	600	430	560	315	315																																							825
CEP 150/630	200	250	1260	1050	1010	555	705	600	450	550	350	245	110	42	45	12	400	210	500	115	710	865	170		880																										
CEP-EFF 200/320			1115	900	850	500	615	450		490	240	240													600												600														
CEP-EFF 200/420			1225	930	900	540	685	500	430	505	255	255													140	62	66	18	420	210	500	110	670	820	140		690														
CEP-EFF 200/530			1325	1100	1020	585	740	600	500	560	310	310													150	70	74.5	20	510	255	610	120	800	970	190		1060														
CEP 200/690			1265	1250		560	705	700	550	650	400	250																									150												1280		
CEP EFF 200/700	1393	1200	1190	618	775	650	550	640	350	350													1280																												
CEP 250/315	250	300	1143	850	850	500	643	450	400	480	225	225	140	62	66	18	420	210	500	110	620	750	130		870																										
CEP-EFF 250/320			1320	1100	690	585	735	600	500	530	260	260													140	62	66	18	420	210	500	110	620	770	140		890														
CEP 250/400			1170	1000	910	510	660	550	450	480	225	225																																					705		
CEP-EFF 250/490			1320	1150	1010	580	740	600	500	560	300	300																									170	90	95	25	500	250	600	150	780	930	160		738		
CEP 250/500			1170	1050	940	510	660	550	450	480	240	240																																					800		
CEP-EFF 250/620	1425	1200	1215	635	790	650	550	670	370	370	70	74.5	20	500	250	600	150	920	1090	180				1330																											
CEP 250/630	300	400	1515	1205	1200	670	895	695	510	670	390	390	210	95	100.4	25	590	295	715	175	876	1075	235		1500																										
CEP 300/315			1290	1095	1020	570	720	585		610	315	315	140	62	66	18	450	225	550	125	780	910	140		980																										
CEP 300/400			1250	1005	940	550	700	505	500	530	250	250																									850														
CEP-EFF 300/450			400	1425	1200	1115	635	790	650	550	590	310													310	70	74.5	20	490	245	610	180	880	1060	190		1200														
CEP 300/500			350	1345	1130	1060	600	745	580		600	320	320												1065																										
CEP-EFF 300/560	400	1705	1350	1170	760	945	700	650	670	350	350	170	90	95	25	640	320	760	180	1000	1250	220		1850																											
CEP-EFF 300/720	1715	1440	1320	765	950	750		720	400	400																									2200																
* CEP-EFF 300/820	500	2080	1700	1700	920	1160	1000	700	950	525	525													225	104	110	28	680	340	800	200	1320	1540	190		4030															
CEP-EFF 350/360	350	500	1445	1250	1120	645	800	700	550	640	325	325	140	70	74.5	20	500	250	600	150	900	1100	180		1280																										
CEP 350/400			1325	1100	1060	590	735	600	500	530	315	315																									1340														
CEP-EFF 350/450			500	1635	1500	1440	740	895	850	650	750	400													400	190	220		640	320	760	180	1060	1310			2800														
CEP 350/500			400	1320	1200	1140	585	735	650	550	670	355													355																							1295			
CEP-EFF 350/520			500	1865	1500	1340	840	1025	850	650	770	400													400												170	90	95	25	640	320	760	180	1180	1420	235		1277		
* CEP-EFF 350/580		1870	1550	1370	845			700	780															1300																											

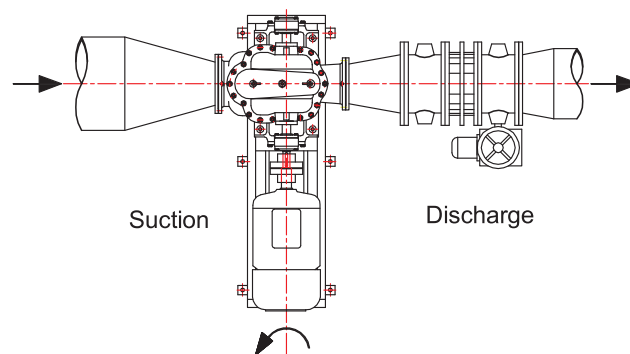


PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	le	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)				
CEP 400/400	400	500	1475	1210	1180	660	815	705	505	720	355	355	140	70	74.5	20	550	275	680	160	950	1120	180	28	1740				
CEP 400/500				1230	1200			680	550								930	1110			2150								
* CEP-EFF 400/520			1895	1550	1380	855	1040	850	700								780	400	400		640	320			760	1260	1450	190	2185
CEP-EFF 400/600			1820	1550	1375	780	1000	800	750								775	395	395							1100	1380	240	3060
CEP 400/630	500	600	1560	1450	1400	690	870	800	650	820	450	450	170	90	95	25	600	300	770	180	910	1085	180	33	1900				
CEP 500/500			1675	1455	1410	745	930	800	655	800							640	320	760		1000	1200			180	2260			
CEP-EFF 500/600			1895	1900	1600	855	1040	1100	800	920							680	340	800		1260	1450			190	3580			
CEP-EFF 500/700			1975	2100	1540	895	1080	1200	900	870											200	1350			1550	200	4800		
CEP 500/800			1840	1710	1520	790	1050	905	805	960	545	545	250	125	132	32	800	400	1000	270	1000	1250	220		3800				
CEP 500/800B																	900	450	1200		1120	1360			3800				
CEP 500/1000			1950	1970	1775	845	1105	1070	900	1065	650	650													4860				
CEP-EFF 600/600	600	700	2055	2100	1900	935	1120	1200	900	1100	500	500	170	90	95	25	680	340	800	200	1430	1630	180		3900				
CEP 600/800	600	700	1940	1750	1720	850	1090	875	875	975	695	695	250	125	132	32	920	460	1220	300	970	1120			4950				
CEP 700/710	700	800	2550	2200	1940	1155	1395	1400	800	1100	620	620	225	105	111	28	800	400	1000	270	1630	1890			240	6635			

PUMP TYPE	ABb	ABe	A	B	C	N	E	F	G	H	le	Pa	M	D	GA	FA	Y	Y1	YY	YA	Z	ZZ	ZA	Øz	Weight (kg)
* CEP-EFF 150/600	150	250	1220	1050	1030	535	685		450	550	315	315	140	62	66	18	500	250	600	150	670	820	140	28	870
* CEP-EFF 150/650					1130			600		600	350	350													915
* CEP-EFF 250/360	250	300	1300	1100	1040	575	725		500	550	275	275					420	210	500	140	800	950			645
** CEP-EFF 250/800			1640	1500	1420	730	910	800	700	720	425	425	170	90	95	25	590	295	715	175	980	1195	190		1830
* CEP-EFF 350/720	350	500	1770	1600	1430	795	975	850	750	810	405	405					680	340	800		1290	1080			2640
** CEP-EFF 400/700	400		2000	1750	1520	900	1100	1000	750	870	405	405					640	320	760		1150	1400			2950
** CEP-EFF 500/860	500	600	2160	1870	1740	950	1210	1200	900	950	520	520	250	125	132	32	800	400	1000	270	1400	1640	200	33	4300
** CEP-EFF 600/720	600	700	2255	2100	1740	1010	1245				480	480	225	105	111	28	680	340	800	190	1470	1720			4450
** CEP-EFF 600/900											600	600	300	140	149	36	1100	500	1300	290	1700	1990			5240
** CEP-EFF 700/720	700	800	2550	2300	2010	1160	1395	1400	900	1160			225	105	111	28	800	400	1000	270	1700	1980	280		6540



CEP SERIES PUMPS CLOCKWISE
ROTATION DIRECTION
(Standard production)



CEP SERIES PUMPS
COUNTER-CLOCKWISE ROTATION
DIRECTION
(Special production order)



INTERNATIONAL PUMPING SYSTEM - IPS PUMP

118 Avenue de Stalingrad - 92700 Colombes - France

Tel : +33 4 91 92 01 18

Fax: +33 4 91 98 11 30

Web: www.masflo.fr

Contact : info@masflo.fr