



I Application

The sanitary and cost-efficient design of the Hyginox SE centrifugal pump makes it particularly suitable as main process pump in the dairy, beverage, pharmaceutical and cosmetic industries.

I Design and features

Hyginox SE is a range of close-coupled centrifugal pumps with sanitary design, compact and efficient. It is made of a cold-formed stainless steel casing, stainless steel open impeller (investment casting), mechanical seal, pump cover, lantern and shaft, connected to the motor shaft by mechanical compression.

The motor complies with the IEC standards, it is protected with a stainless steel shroud and provided with the height adjustable hygienically designed legs.

I Technical specifications

Materials:

Parts in contact with the product	Stainless steel AISI 316L (1.4404)
Other steel parts	Stainless steel AISI 304 (1.4301)
Gaskets in contact with the product	EPDM (according to FDA and EC 1935/2004)

Single internal mechanical seal EN 12756 I1k (according to FDA and EC 1935/2004):

Rotary part	Carbon (C)
Stationary part	Silicon carbide (SiC)
Gaskets	EPDM

Surface finish:

Internal	Ra<0,8 µm
External	Matt

Connections: DIN 11851

Operating limits:

Nominal pressure	10 bar	145 PSI
Temperature range	-10°C to +120 °C	14 °F to 248 °F
	+140°C (SIP, max- 30 min.)	284 °F
Maximum flow	145 m³/h	638 US GPM
Maximum differential head	90 m	295 ft
Maximum speed	3500 rpm	



I Motor

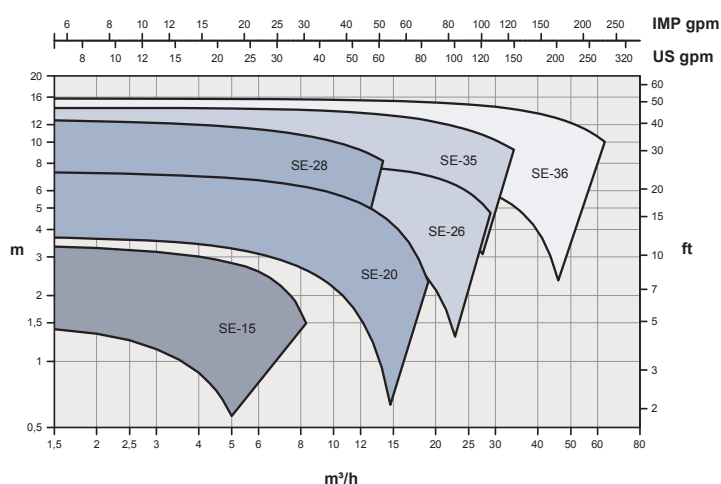
Triphasic induction motor with B34 flange (B35 for motor frame 132 and above), in compliance with the IEC standards, 2 poles = 3000/3600 rpm, efficiency class according to EC regulation, IP 55 protection and F-class insulation.

3 phases, 50 Hz, 230 V Δ / 400 V Y, ≤ 4 kW
3 phases, 50 Hz, 400 V Δ / 690 V Y, $\geq 5,5$ kW

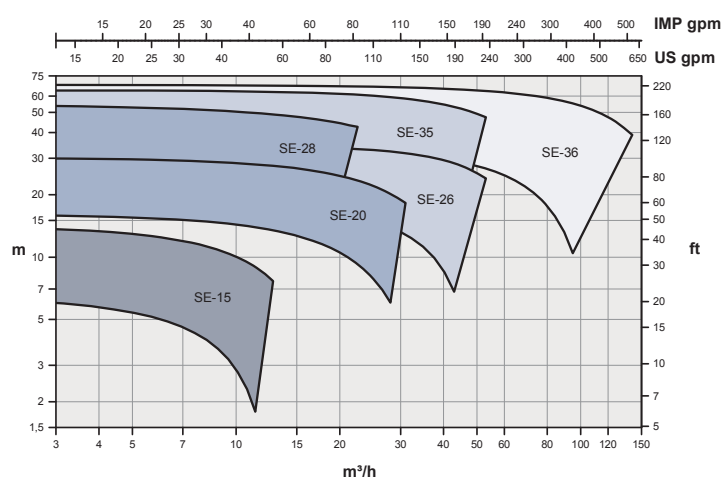
I Performance charts

50 Hz

1450 rpm

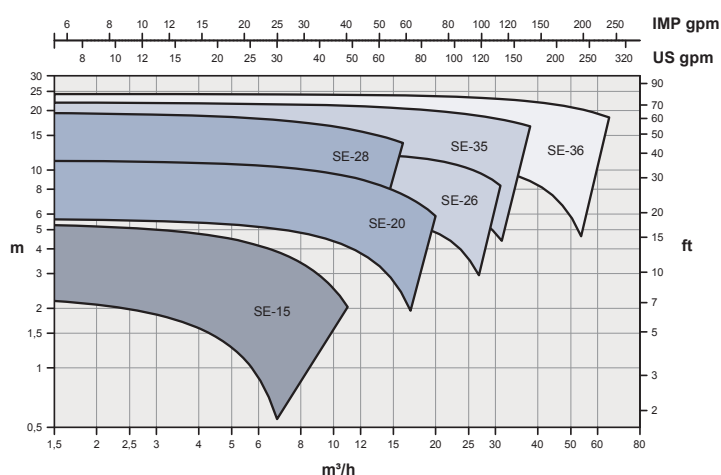


2900 rpm

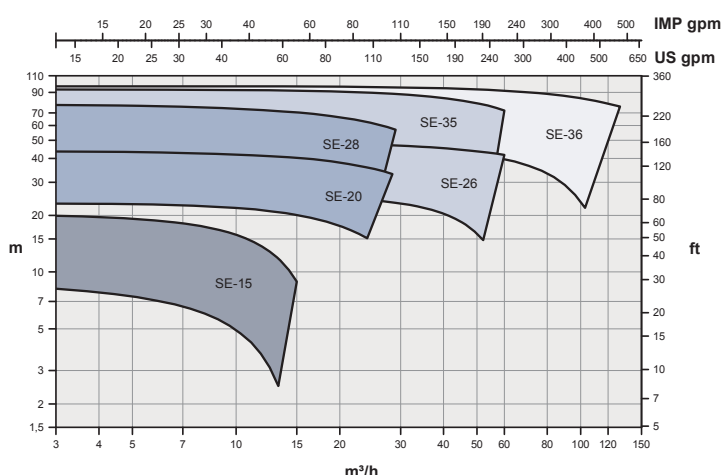


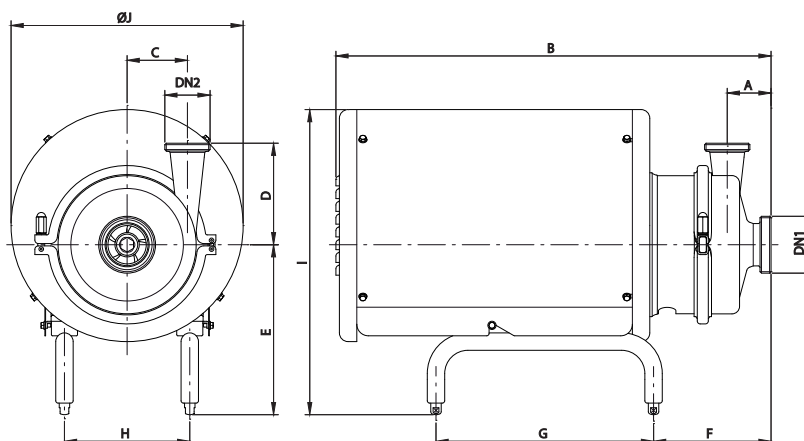
60 Hz

1750 rpm



3500 rpm



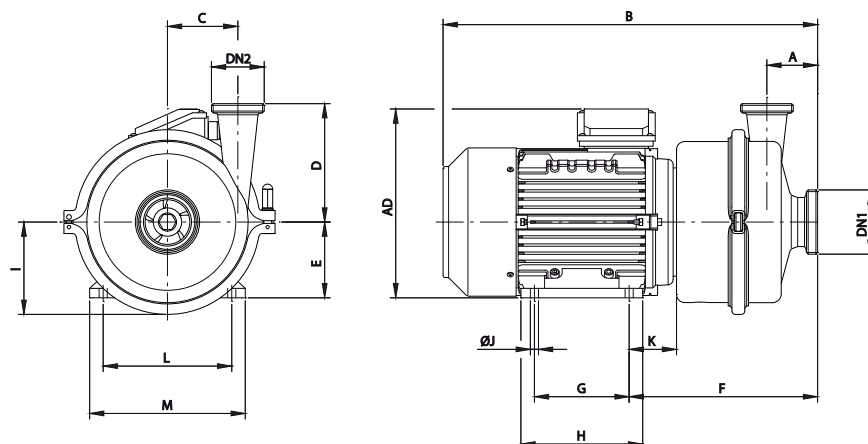
I Dimensions: Hyginox SE

Pump	Size	Motor kW	rpm	DN1	DN2	A	B	C	D	E	F	G	H	I	ØJ	kg
SE-15	A	71	0,25 0,55	40	32	55	440	55	100	203	111	250	112	350	230	14 15
	B	80	0,75 1,1				530			217	148	275	132	405	290	22 24
	C	90S	1,5							227	154			415		28
SE-20	C	90S	1,1 1,5	50	40	55	530	74	140	227	154	275	132	415	290	30 29
		90L	2,2													31
	D	100	3				605			266	152	325	175	480	350	43
	E	112	4							278	159			490		49
SE-26	C	90S	1,1	65	50	55	540	72	150	227	162	275	132	415	290	31
	D	100	3							266	159			480		43
	E	112	4				610			278	166	325	175	490	350	50 56
			5,5													71
	F	132S	7,5				740			293	192	375	216	530	400	79
SE-28	C	90S	1,1	40	40	65	535	106	165	227	157	275	132	415	290	36
	D	100	3							266	154			480		48
	E	112	4				610			278	161	325	175	490	350	55 61
			5,5													76
	F	132S	7,5				740			293	188	375	216	530	400	84
SE-35	D	100	2,2 3	65	50	75	620	104	175	266	168	325	175	480	350	49 54
	E	112	5,5							278	175			490		62
	F	132S	5,5 7,5				750			293	202	375	216	530	400	76 85
		132M	11													98
			11													134
	G	160M	15				885			367	253	475	267	645	465	154
SE-36	D	100	2,2 3	100	65	75	620	98	181,5	266	168	325	175	480	350	52 57
	E	112	4							278	175			490		63
	F	132S	7,5				750			293	202	375	216	530	400	88 101
		132M	11													136
	G	160M	15				885			367	253	475	267	645	465	156

Dimensions with DIN 11851 connections



I Dimensions: Hyginox SE without shroud and without legs



Pump	Size	Motor kW	rpm	DN1	DN2	A	B	C	D	E	F	G	H	AD	I	ØJ	K	L	M	kg
SE-15	A	71	0,25	40	32	55	375	55	100	71	202	90	105	185	80	7	45	112	140	10
			0,55																	11
	B	80	0,75				420			80	231	100	130	215		10	50	125	160	16
	C	90S	1,1				445			90	237	100	130	235			56	140	180	18
SE-20	C	90S	1,1	50	40	55	450	74	140	90	237	100	130	235	105	10	56	140	180	24
			1,5									125	155							23
		90L	2,2				470			100	255			260			63	160	200	26
	D	100	3				510			112	262	140	180	280		12	70	190	230	34
	E	112	4				530													41
SE-26	C	90S	1,1	65	50	55	455	72	150	90	244	100	130	235	105	10	56	140	180	25
	D	100	3				530			100	261			260			63	160	200	34
			4									140	180	280		12	70	190	230	41
	E	112	5,5				545			112	268						70	190	230	47
	F	132S	7,5				605			132	310		190	320	150		112	216	260	59
SE-28	C	90S	1,1	40	40	65	450	106	165	90	240	100	125	235	137	10	56	140	180	30
	D	100	3				525			100	257			260			63	160	200	39
			4									140	180	280		12	70	190	230	46
	E	112	5,5				540			112	264									52
	F	132S	7,5				600			132	306		190	320	150		112	216	260	64
SE-35	D	100	2,2	65	50	75	540	104	175	100	271		180	260	134		63	160	200	41
			3											280		12	70	190	230	45
	E	112	5,5				555			112	278	140								53
	F	132S	7,5				610			132	320		190	320			112	216	260	65
			11				650					178	230							74
	G	160M	11				765			160	375	210	265	405	175	15	167	254	315	87
SE-36	D	100	2,2	100	65	75	540	98	181,5	100	271		180	260	137		63	160	200	116
			3											280		12	70	190	230	136
	E	112	4				555			112	278	140								43
	F	132S	7,5				610			132	320	178	190	320			112	216	260	48
			11				650						230							54
	G	160M	11				765			160	375	210	265	405	175	15	167	254	315	77
			15																	90
																				118
																				138

Dimensions with DIN 11851 connections

