



BOMBAS CENTRÍFUGAS VERTICALES

**CENTRIFUGAL
VERTICAL
PUMPS**

HL, T, TCP,
IDL,
CK, CKE,
ORK



CONTENIDO

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DATOS TÉCNICOS

INTRODUCCIÓN

Las bombas CK,CKE, IDL, ORK, TCP, T están dirigidas para bombear refrigerantes y lubricantes para máquinas herramienta, trasiego de líquidos y otras aplicaciones similares. Están diseñadas para instalar sobre depósitos, sumergidos amarrados sobre la brida.

Las bombas se fabrican en diferentes medidas y de número de etapas con el fin de ofrecer el caudal, la presión y la altura sumergible que se necesita.

La bomba consta de dos partes principales; el motor eléctrico y la bomba centrífuga. El motor es estándar a las normas EN. Las bombas CKE incorporan además un convertidor de frecuencia integrado al motor.

La bomba es centrífuga multietapa optimizada con diferentes medidas de brida y sellos mecánicos.

CONSTRUCCIÓN

CK, CKE, IDL, ORK	Material
Motor	Aluminio
Brida	Hierro fundido
Eje	AISI, 304/316
Impulsor	AISI 304

LÍQUIDOS BOMBEADOS

Líquidos y lubricantes limpios, sin partículas abrasivas, fibras en suspensión y químicamente no agresivos contra los materiales de la bomba.

Observar qué líquidos agresivos (p.ej. agua de mar y algunos ácidos) pueden atacar o disolver la película protectora de óxido del acero inoxidable, originando así la corrosión.

Rangos de temperatura del líquido:

- Temperatura normal: -15°C ... +70°C
- Opcional: -15°C ... + 120°C

VISCOSIDAD

Densidad o viscosidad cinemática de los líquidos superiores a las indicadas originan una caída de presión y a su vez aumento de consumo eléctrico o sobrecarga. En tales situaciones puede que sea necesario equipar la bomba con un motor sobredimensionado.

Máxima viscosidad cinemática del líquido a bombear:

Modelo	Máxima viscosidad cinemática del líquido a bombear mm ² /s [cSt]
HL, T	37
TCP	37
IDL2,4, ORK2,4	37
CK1,2,3,4,5	37
CK8,10,15,16,20	50

MOTOR ELÉCTRICO

La bomba está compuesta de un motor eléctrico auto-refrigerado de 2 polos acoplado a la bomba formando un grupo monoblock. Los motores son conformes a la norma armonizada EN 60034 (CEI 34) y por lo tanto a la directiva de baja tensión 2006/95/CE y a este título están marcados CE.

DATOS ELÉCTRICOS:

Clase aislamiento	F
Temp. Ambiente máx.	40°C
Grado protección	IP55
Tensiones estándar:	
50 Hz	1x 220-240 V 3x 230/400 V
60 Hz	1x 220-240 V 3x 230/400-460 V



DATOS TÉCNICOS

Motores–E, E-CONTROL

Los motores integrados con convertidores de frecuencia son especialmente útiles para facilitar diferentes demandas de presión y caudal.

Sus principales ventajas son:

- Ahorro de energía.
- Arranque y parada flexible.
- Control de la demanda real.
- Fácil puesta en marcha.

SELLO MECÁNICO

Las bombas se suministran con diferentes tipos de sellos en base a la temperatura, tipo de líquido y modelo de bomba.

IDL, ORK, CK, CKE: HUCV – HUUV- HQQV

HUCV:

Sello mecánico, carbón - carburo de tungsteno, FKM

HUUV:

Sello mecánico, carburo de tungsteno - carburo de tungsteno FKM

HQQV:

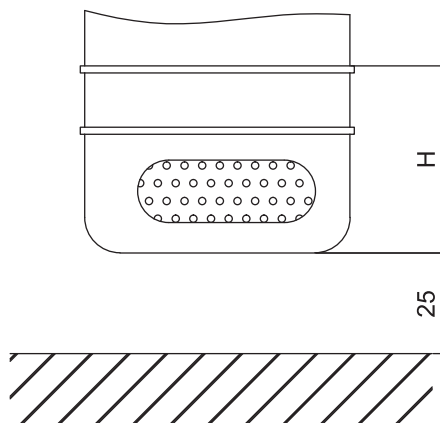
Sello mecánico, carburo de silicio - carburo de silicio, FKM

INSTALACIÓN

Las bombas de inmersión se deben montar verticalmente en un depósito de tal manera que queden bien amarradas de las brida, sobre una superficie plana y fija. Las bombas no funcionarán correctamente si se instalan inclinadas o sometidas a vibraciones.

Se recomienda dejar un mínimo de 25 mm de margen sobre el fondo del depósito y la bomba, así se evitará que la bomba aspire sedimentos e impurezas del depósito. Las bombas están diseñadas para ofrecer el máximo rendimiento hasta el nivel H m/m sobre el fondo del depósito.

Modelo	H [m/m]
HL, T	35
TCP	40
IDL2,4, ORK2,4	60
CK1,2,3,4,5	60
CK8,16,20	75





PRODUCT DATA

INTRODUCTION

CK,CKE, IDL, ORK, TCP, T pumps are designed for pumping coolants and lubricants for machine tools, transfer and similar applications. The pumps are designed to be mounted on top of the tanks immersed in the pumped liquid, and fixed by mounting flange.

The pumps are mounted in various pump sizes and number of stages to provide the required flow, pressure and immerse length.

The pumps consist of two main components. The motor and pump unit. The electric motor of the pumps is designed to EN standards. CKE pumps include an e-motor, with integral frequency converter.

The pump is centrifugal multistage optimized with different mounting flanges and mechanical seals.

CONSTRUCTION

CK, CKE, IDL, ORK	Material
Motor	Aluminium
Pump head	Cast iron
Shaft	AISI 304 /316
Impeller	AISI 304

PUMPED LIQUID

Thin, non-explosive liquids and lubricants not containing solid particles or fibers. The liquids must not chemically attack the pump materials.

Please note that aggressive liquids (e.g. seawater and some acids) may attack or dissolve the protective oxide film of the stainless steel and thus cause corrosion.

Liquid temperature range:

- Normal temperature: -15°C ... +70°C
- Optional: -15°C ... + 120°C

VISCOSITY

The pumping of liquids with densities or kinematic viscosities higher than those of water will cause a considerable pressure drop in hydraulic performance and rise in the power consumption. In such situations the pump should be equipped with a larger motor.

The maximum kinematic viscosity:

Pump type	mm ² /s [cSt]
HL, T	37
TCP	37
IDL2,4, ORK2,4	37
CK1,2,3,4,5	37
CK8,16,20	50

ELECTRIC MOTOR

Pumps are fitted with a totally enclosed, fan cooled, two pole standard motor making a monoblock group. Motors conform to the Harmonized Standard EN 60034 (CEI 34), hence to the Low-Voltage Directive 2006/95/EC, and as a result bear the CE marking.

ELECTRIC DATA:

Insulation class	F
Ambient max temp.	40°C
Enclosure class	IP55
Standard supply voltage:	
50 Hz	1x 220-240 V 3x 230/400 V
60 Hz	1x 220-240 V 3x 230/400-460 V



PRODUCT DATA

E-Motor, CKE, E-CONTROL

The motors with integral frequency converter are especially suitable to adjust the delivery flow and pressure to different demands.

Advantages of the pumps are:

- Energy saving.
- Flexible starting and stopping.
- Controlling the real demand.
- Easy start up.

SHAFT SEAL

The pumps are designed with different seals depending with temperature, pumped liquid and type of pump.

IDL, ORK, CK, CKE: HUCV – HUUUV- HQQV

HUCV:

Shaft seal, carbon – tungsten carbide, FKM

HUUUV:

Shaft seal, tungsten carbide - tungsten carbide, FKM

HQQV:

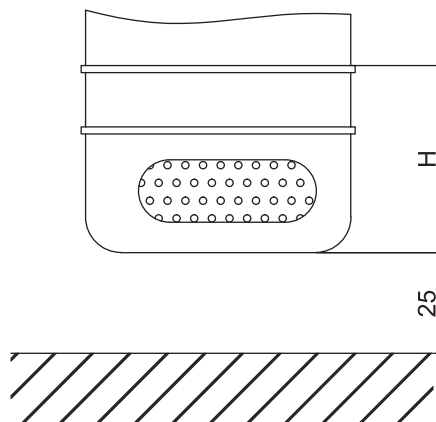
Shaft seal, silicon carbide (SiC) – silicon carbide (SiC), FKM

INSTALATION

Submerged pumps require vertical tank mounting, making sure they are firmly fastened to the mounting flange on a flat fixed surface. The pumps will not work properly if they are tilted when installed or if they are subject to vibration

The distance between the bottom of the pump and the bottom of the tank must be at least 25 m/m. The pumps are designed to provide a full performance down to a level of 1 H m/m above the bottom of the pump, see as below,

Model	H [m/m]
HL, T	35
TCP	40
IDL2,4, ORK2,4	60
CK1,2,3,4,5	60
CK8,16,20	75

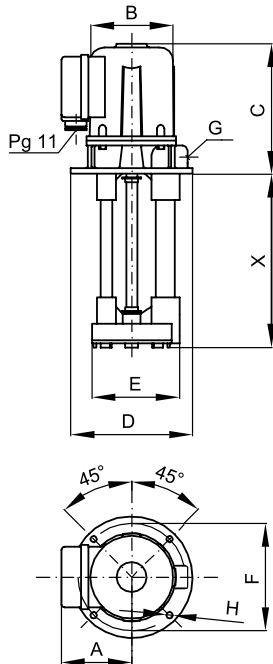




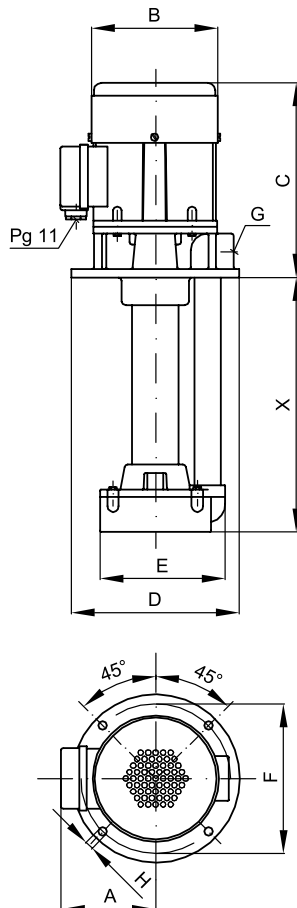
DATOS TÉCNICOS

TECHNICAL DATA

T-24,HL-24



T-50,75,100,150



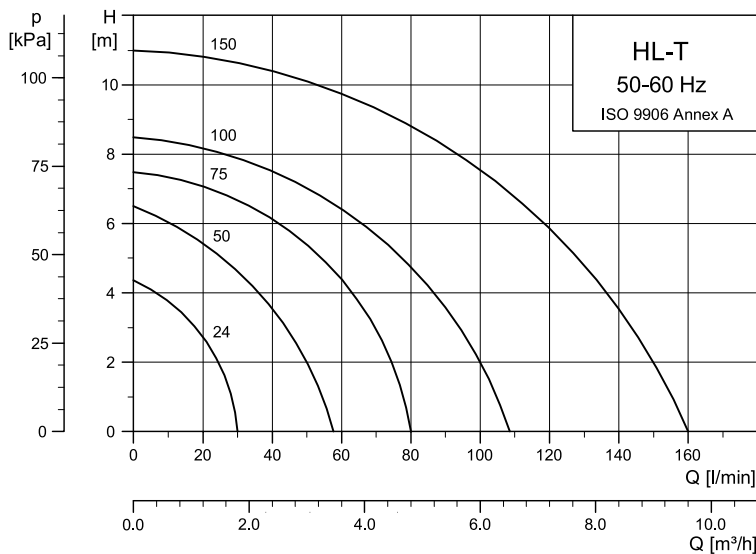
Materiales / Construction

Motor / Motor housing	Aluminio / Aluminium
Brida / Pump head	Hierro fundido / Cast iron
Eje/ Shaft	Acero / Steel AISI 304 (HL-24)
Bomba / Pump body	Hierro fundido / Cast iron Polypropylene (HL-24)
Turbina / Impeller	Polyamide

Conexión eléctrica / Electrical data

Tensión de corriente, 50 Hz / Supply voltage, 50 Hz	1 x 230 V 3 x 230/400 V
Tensión de corriente, 60 Hz / Supply voltage, 60 Hz	1 x 230 V 3 x 230/400-460 V

Pump Type	P1 [kW]	l/min / m	Dimensions [m/m]								
			X	A	B	C	D	E	F	H	G
HL,T-24/90	0,06	24 / 2	90	76	89	145	130	93	115	7	3/8"
HL,T-24/120			120								
HL,T-24/170			170								
HL,T-24/220			220								
HL,T-24/270			270								
T-50/120	0,18	50 / 2	120	105	125	178	160	118	140	9	1/2"
T-50/170			170								
T-50/220			220								
T-50/270			270								
T-50/350			350								
T-75/120	0,28	75 / 2	120	105	135	210	160	118	140	9	1/2"
T-75/170			170								
T-75/220			220								
T-75/270			270								
T-75/350			350								
T-100/120	0,37	100 / 2	120	105	135	220	180	140	160	9	3/4"
T-100/170			170								
T-100/220			220								
T-100/270			270								
T-100/350			350								
T-150/170	0,55	150 / 2	170	105	135	220	180	140	160	9	1"
T-150/220			220								
T-150/270			270								
T-150/350			350								
T-150/440			440								





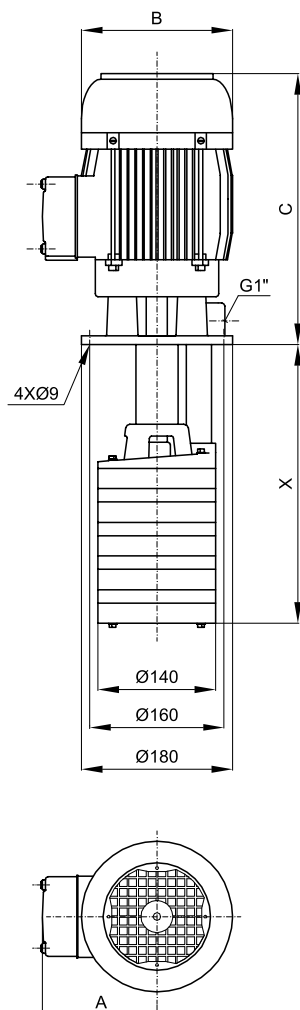
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CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

TCP



Materiales / Construction

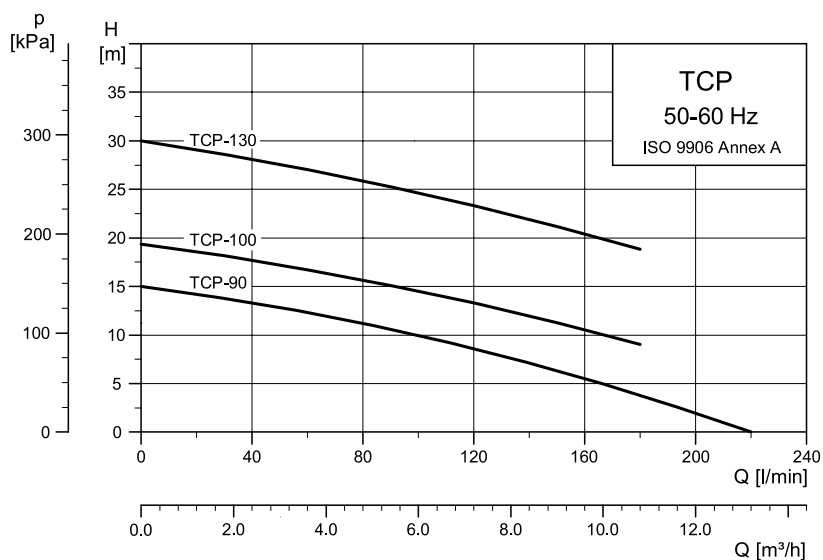
Motor / Motor housing	Aluminio /Aluminium
Brida / Pump head	Hierro fundido / Cast iron
Eje/ Shaft	Acero / Steel
Bomba /Pump body	Hierro fundido / Cast iron
Turbina / Impeller	Polyamide

Conexión eléctrica / Electrical data

Tensión de corriente, 50 Hz / Supply voltage, 50 Hz	3 x 230/400 V
Tensión de corriente, 60 Hz / Supply voltage, 60 Hz	3 x 230/400-460 V

Dimensiones y pesos / Dimensions and weights

Pump Type	P1 [kW]	l/min / m	Dimensions [m/m]				[kg]
			X	A	B	C	
TCP-90/200	0,55	230 / 2	200	105	135	220	12
TCP-90/270			270				12
TCP-90/350			350				13
TCP-100/200	0,55	110 / 10	200	105	135	220	12
TCP-100/270			270				12
TCP-100/350			350				13
TCP-130/200	1,1	100 / 20	200	142	170	295	15
TCP-130/270			270				15
TCP-130/350			350				16
TCP-130/440			440				16



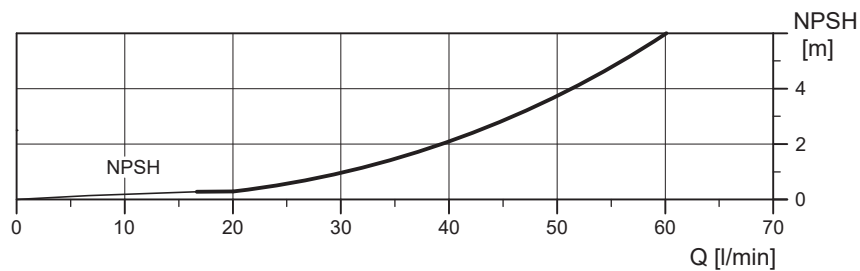
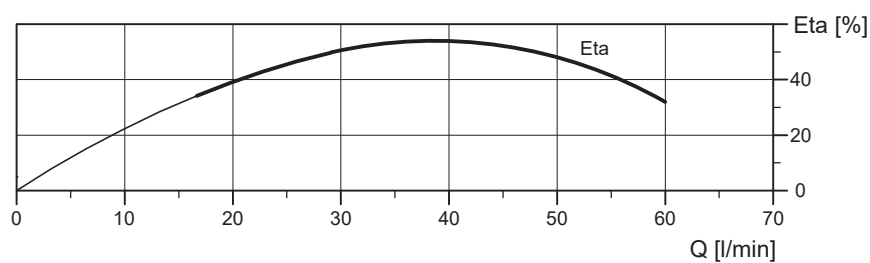
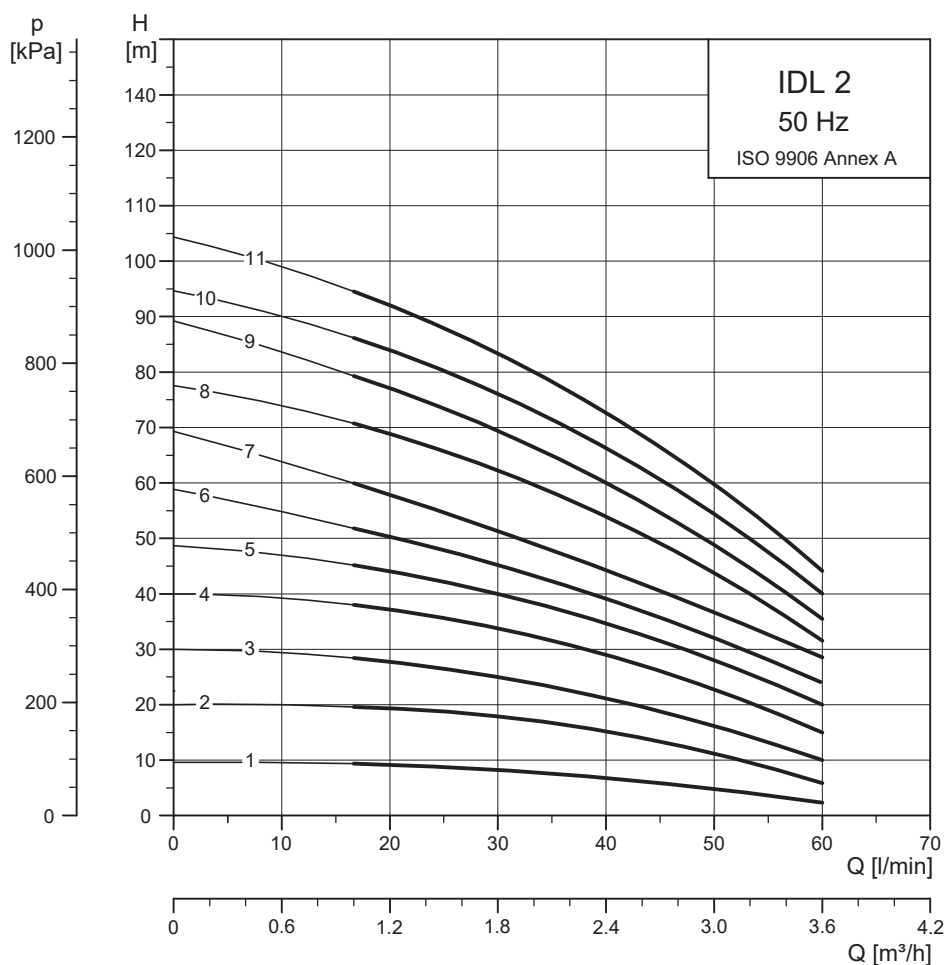


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IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

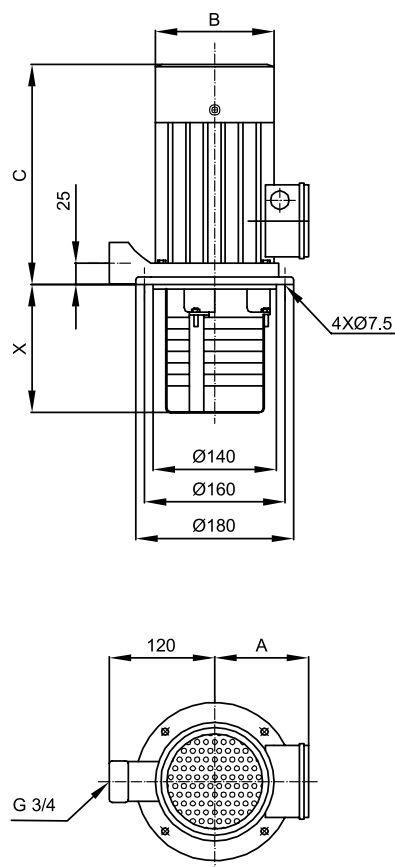
PERFORMANCE CURVES

**IDL2
50 Hz**



DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL2**
50 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL2-30/1	0,28	346	142	112	141	204	10,2
IDL2-30/2	0,37	346	142	112	141	204	10,3
IDL2-30/3	0,37	346	142	112	141	204	10,4
IDL2-40/4	0,55	364	160	112	141	204	10,8
IDL2-50/5	0,55	422	178	112	141	244	11,3
IDL2-60/6	0,75	440	196	112	141	244	13,8
IDL2-70/7	0,75	458	214	112	141	244	14,1
IDL2-80/8	1,1	476	232	112	141	244	14,4
IDL2-90/9	1,1	494	250	112	141	244	14,5
IDL2-100/10	1,1	512	268	112	141	244	15,0
IDL2-110/11	1,1	530	286	112	141	244	15,6

La cota sumergible máxima es de 286 m/m
The maximum immersion depth is 286 m/m.

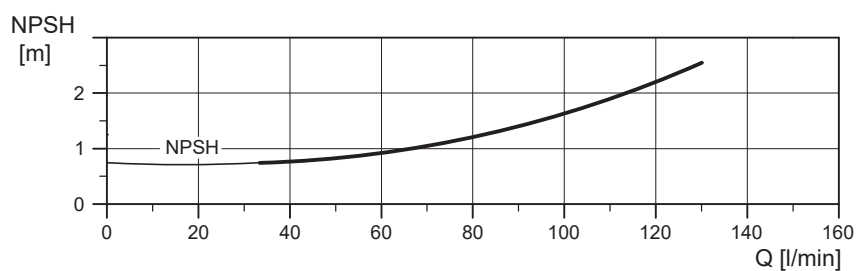
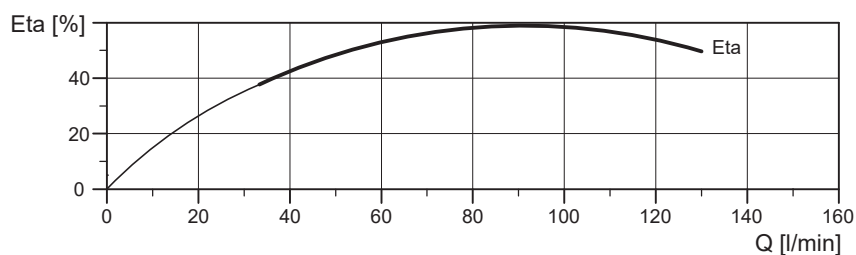
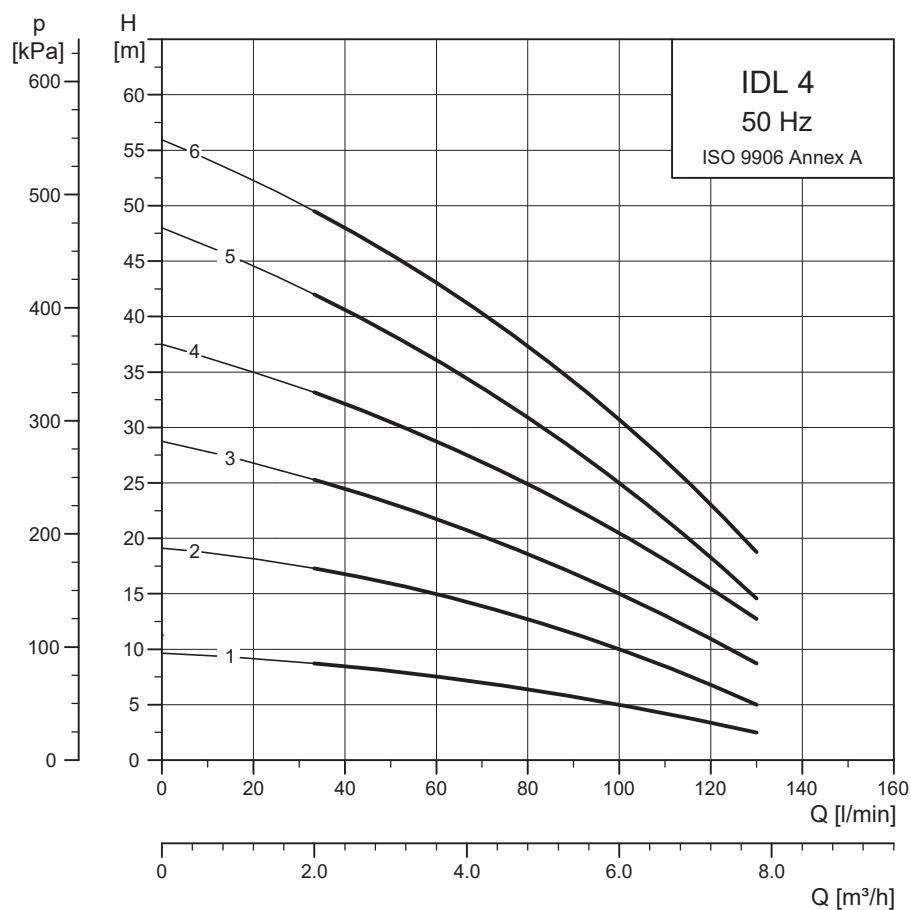


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PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

**IDL4
50 Hz**

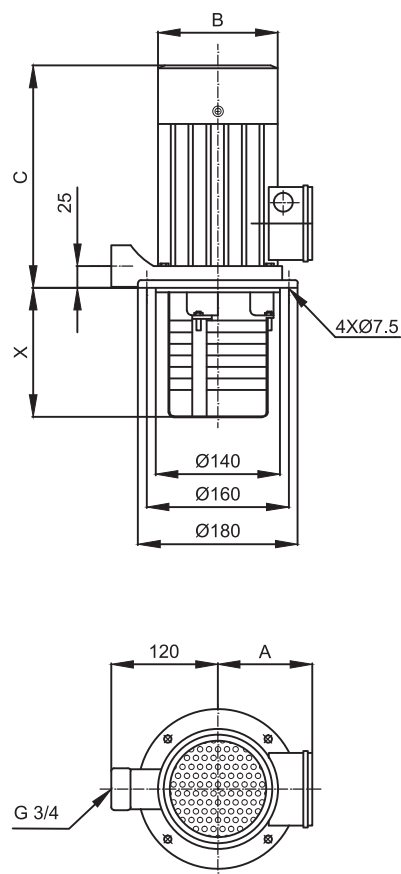


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VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL4**
50 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL4-20/1	0,37	346	142	112	141	204	11,5
IDL4-20/2	0,37	346	142	112	141	204	11,6
IDL4-30/3	0,55	413	169	112	141	244	13,4
IDL4-40/4	0,75	440	196	112	141	244	14,8
IDL4-50/5	1,1	467	223	112	141	244	15,0
IDL4-60/6	1,1	494	250	112	141	244	15,5
IDL4-70/6	1,1	521	277	112	141	244	15,8
IDL4-80/6	1,1	548	304	112	141	244	15,9

La cota sumergible máxima es de 304 m/m
The maximum immersion depth is 304 m/m.

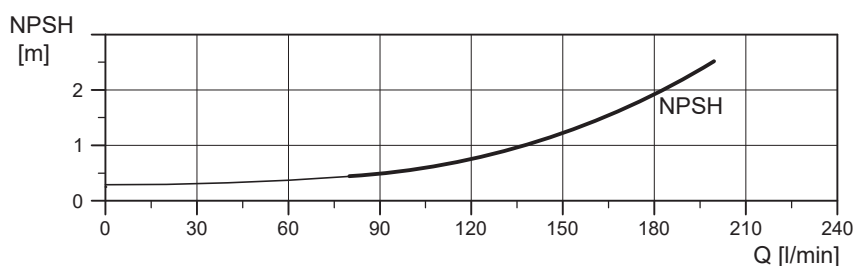
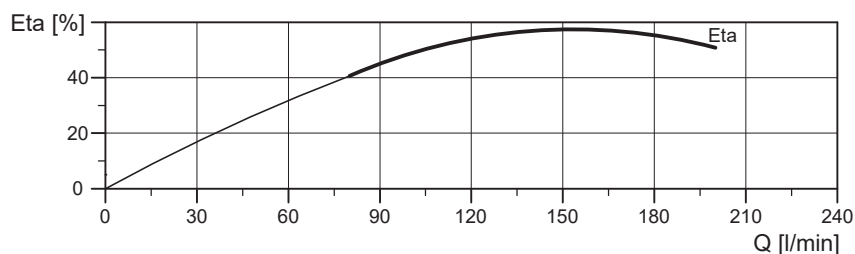
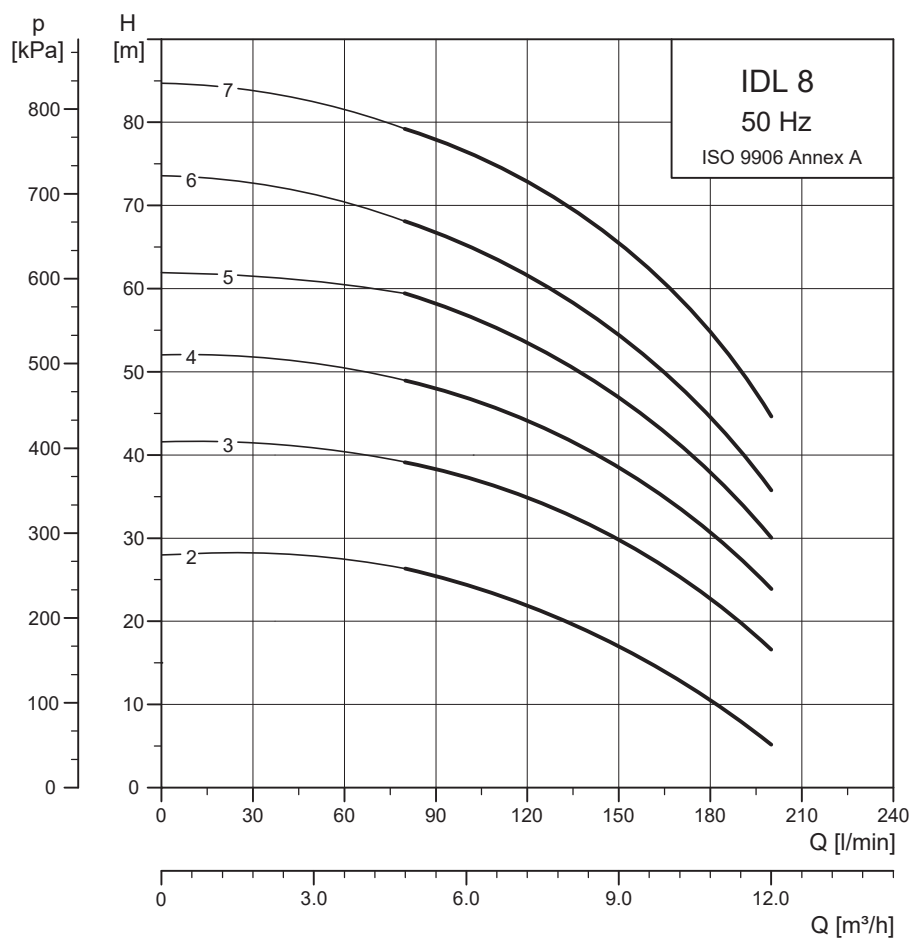


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IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

IDL8
50 Hz

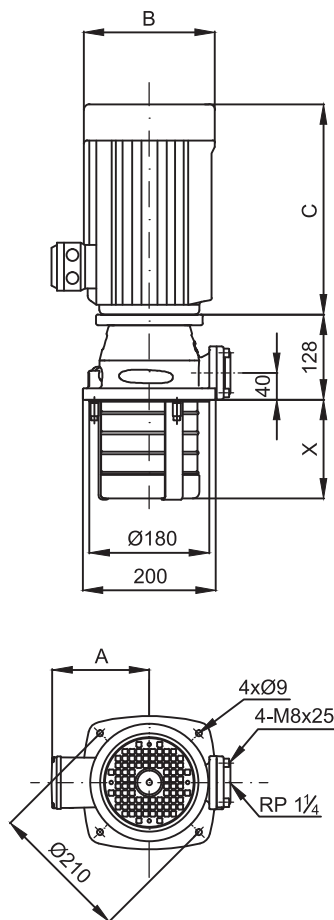


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VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL8**
50 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL8-20/2	1,1	423	60	115	141	235	19,3
IDL8-30/3	1,6	509	90	141	177	291	28,5
IDL8-40/4	2,1	539	120	141	177	291	31,3
IDL8-50/5	2,6	594	150	147	197	316	37,7
IDL8-60/6	3,0	634	180	161	200	326	43,9
IDL8-70/7	3,4	664	210	161	200	326	44,7

La cota sumergible máxima es de 210 m/m
The maximum immersion depth is 210 m/m.

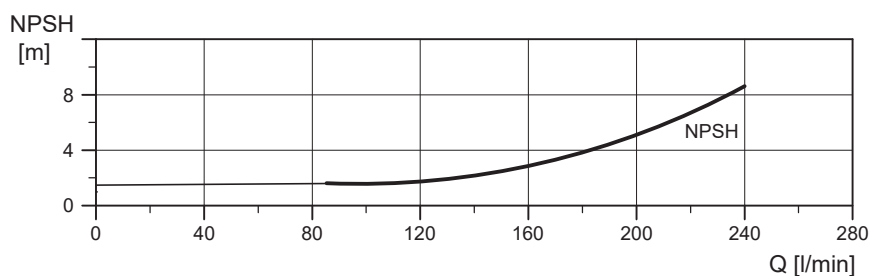
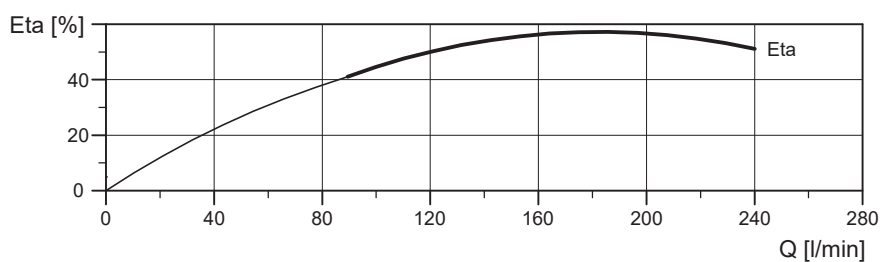
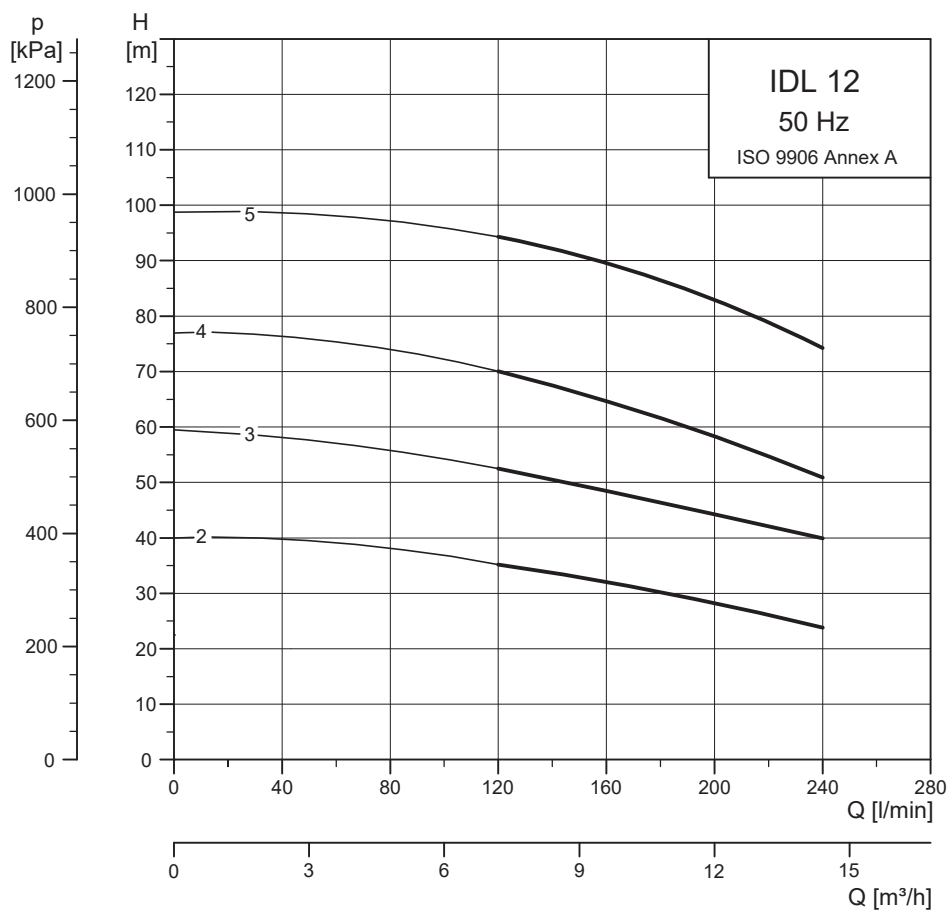


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IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

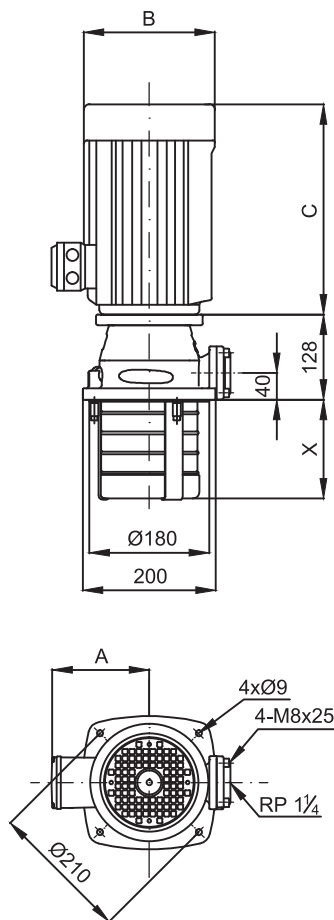
PERFORMANCE CURVES

IDL12
50 Hz



DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL12**
50 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL12-20/2	2,4	504	60	147	197	316	34,8
IDL12-30/3	3,6	544	90	161	220	326	41,7
IDL12-40/4	4,6	574	120	161	220	326	43,4
IDL12-50/5	5,7	604	150	161	220	326	44,7
IDL12-60/5	5,7	634	180	161	220	326	45,1
IDL12-70/5	5,7	664	210	161	220	326	45,7

La cota sumergible máxima es de 210 m/m
The maximum immersion depth is 210 m/m.

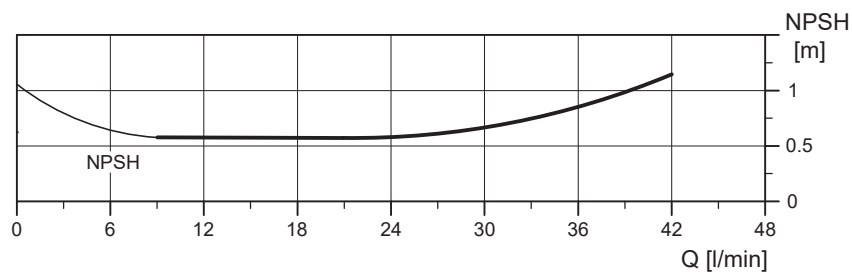
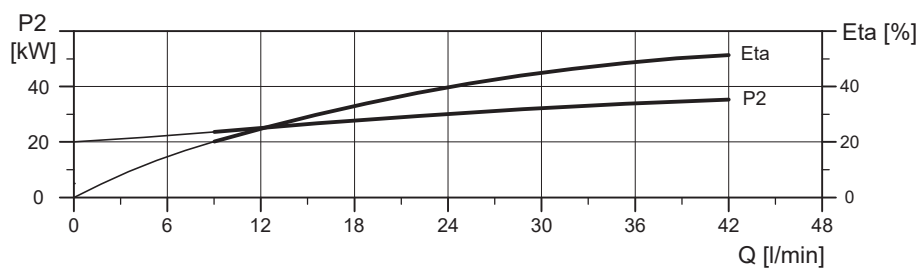
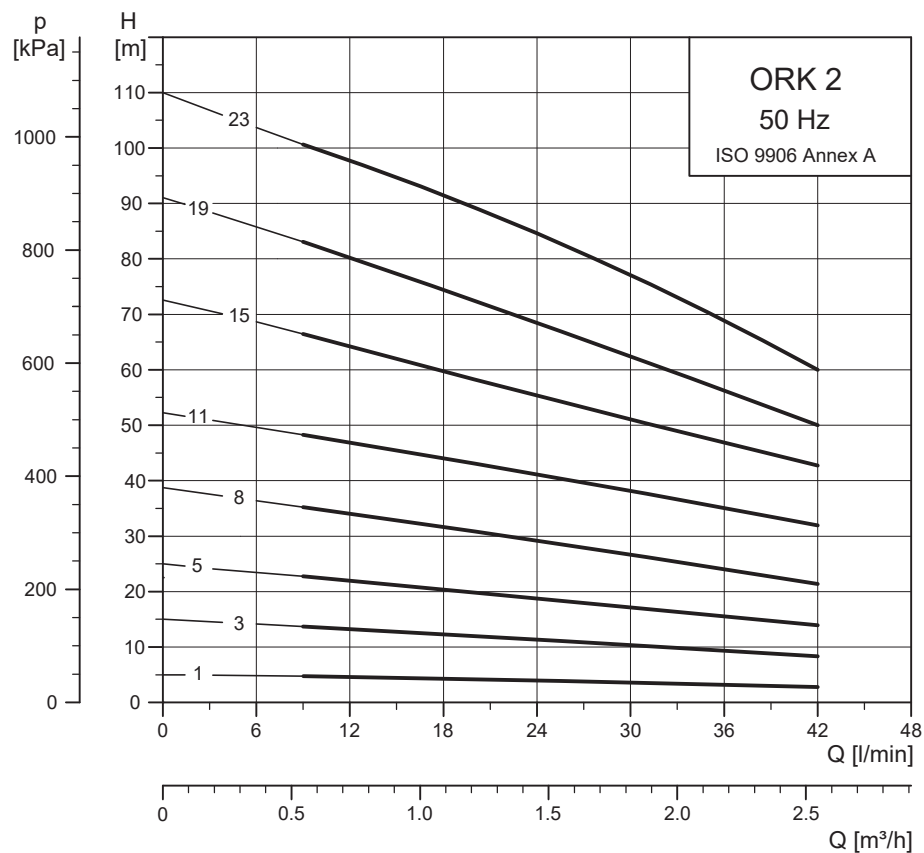


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PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

ORK2
50 Hz

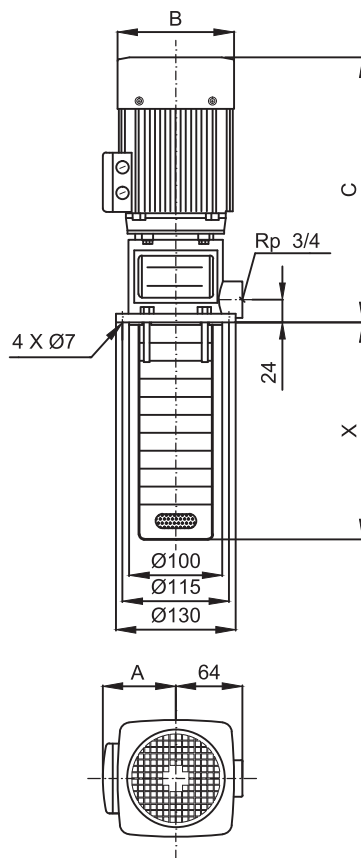


DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA DIMENSIONAL

INSTALLATION SKETCHES

ORK2
50 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
ORK2-10/1	0,37	413	143	115	141	270	9,4
ORK2-30/3	0,37	455	185	115	141	270	9,8
ORK2-50/5	0,37	497	227	115	141	270	10,2
ORK2-80/8	0,55	560	290	115	141	270	11,3
ORK2-110/11	0,75	666	353	115	141	313	13,8
ORK2-150/15	0,75	750	437	115	141	313	15,0
ORK2-190/19	0,75	834	521	115	141	313	15,7
ORK2-230/23	0,75	918	605	115	141	313	16,0

La cota sumergible máxima es de 605 m/m
The maximum immersion depth is 605 m/m.

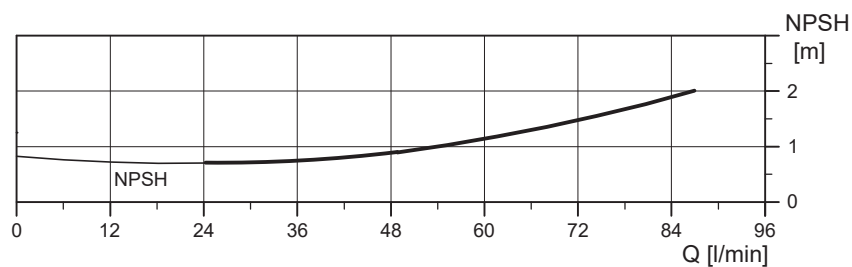
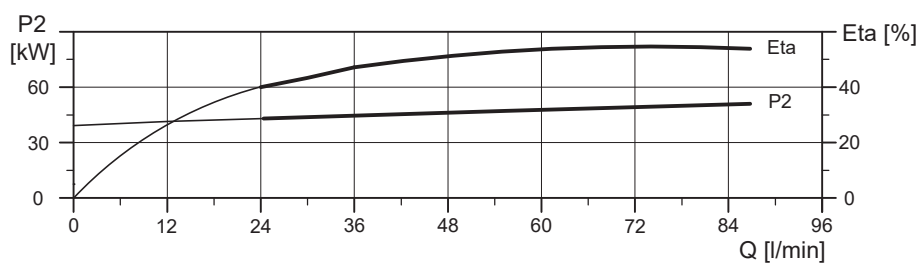
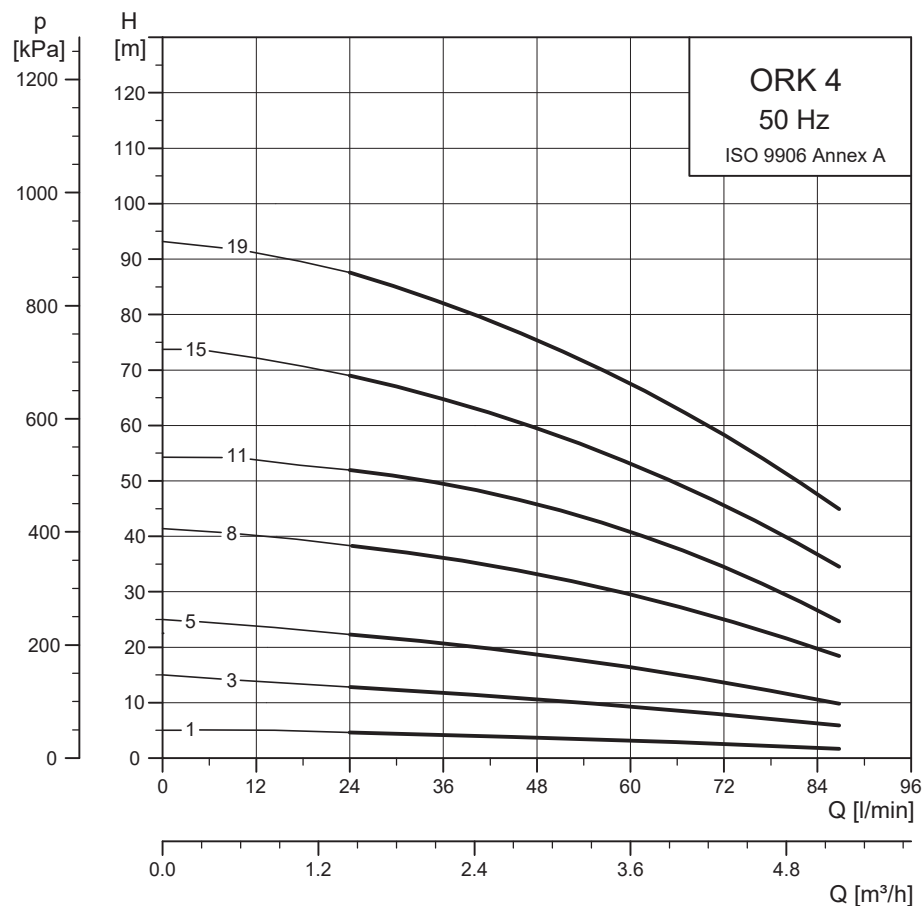


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

**ORK4
50 Hz**

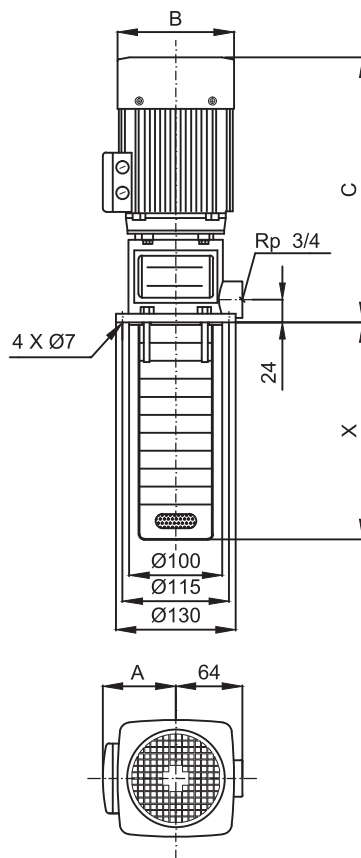


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**ORK4**
50 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
ORK4-10/1	0,37	413	143	115	141	270	9,4
ORK4-30/3	0,37	455	185	115	141	270	9,8
ORK4-50/5	0,55	497	227	115	141	270	10,7
ORK4-80/8	0,55	603	290	115	141	313	14,2
ORK4-110/11	0,75	666	353	115	141	313	13,7
ORK4-150/15	1,1	750	437	115	141	313	15,6
ORK4-190/19	1,1	834	521	115	141	313	16,4

La cota sumergible máxima es de 521 m/m
The maximum immersion depth is 521 m/m.

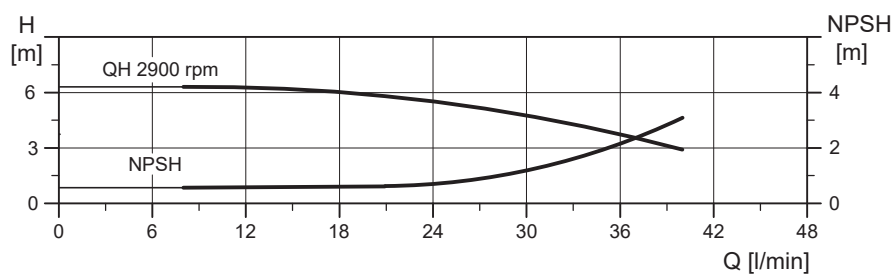
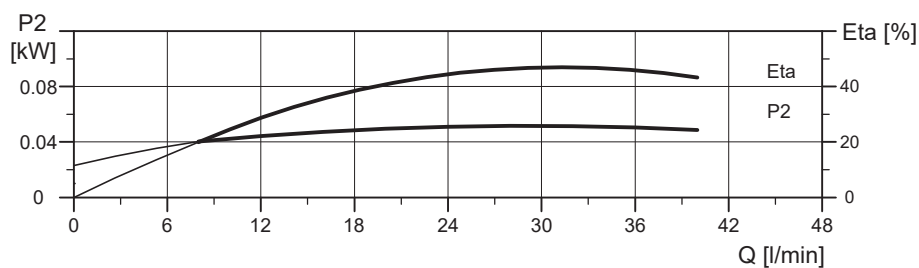
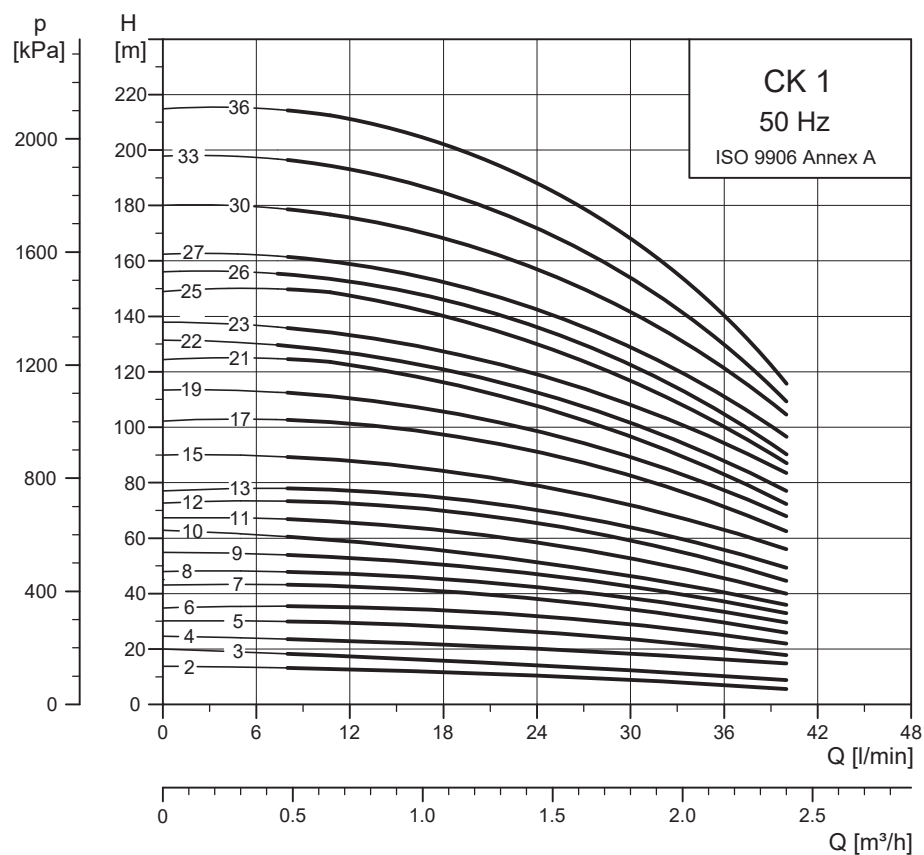


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 1
50 Hz

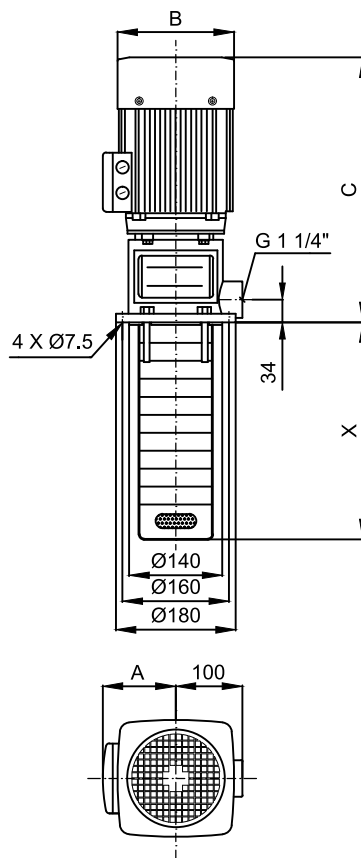


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 1**
50 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK1-20/2	0,37	465	160	115	141	305	12,1
CK1-30/3	0,37	483	178	115	141	305	12,3
CK1-40/4	0,37	501	196	115	141	305	12,5
CK1-50/5	0,37	519	214	115	141	305	12,7
CK1-60/6	0,37	537	232	115	141	305	13,0
CK1-70/7	0,37	555	250	115	141	305	13,2
CK1-80/8	0,55	573	268	115	141	305	13,9
CK1-90/9	0,55	591	286	115	141	305	14,2
CK1-100/10	0,55	609	304	115	141	305	14,4
CK1-110/11	0,55	627	322	115	141	305	14,6
CK1-120/12	0,75	685	340	115	141	345	16,5
CK1-130/13	0,75	703	358	115	141	345	16,7
CK1-150/15	0,75	739	394	115	141	345	17,1
CK1-170/17	1,1	775	430	115	141	345	18,7
CK1-190/19	1,1	811	466	115	141	345	19,2
CK1-210/21	1,1	847	502	115	141	345	19,6
CK1-220/22	1,1	865	520	115	141	345	19,9
CK1-230/23, CKE1-230/23	1,1	883	538	115/199	141	345	20,1/27,0
CK1-250/25	1,5	975	574	141	177	401	27,8
CK1-260/26	1,5	993	592	141	177	401	28,0
CK1-270/27	1,5	1011	610	141	177	401	28,2
CK1-300/30, CKE1-330/33	1,5	1065	664	141 / 205	177	401	28,9/35
CK1-330/33	2,2	1119	718	141	177	401	32,0
CK1-360/36, CKE1-360/36	2,2	1173	772	141 / 205	177	401	32,7/39

La cota sumergible máxima es de 772 m/m
The maximun immersion depth is 772 m/m.

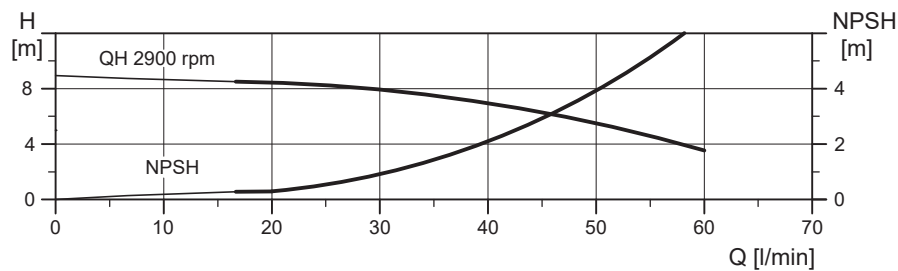
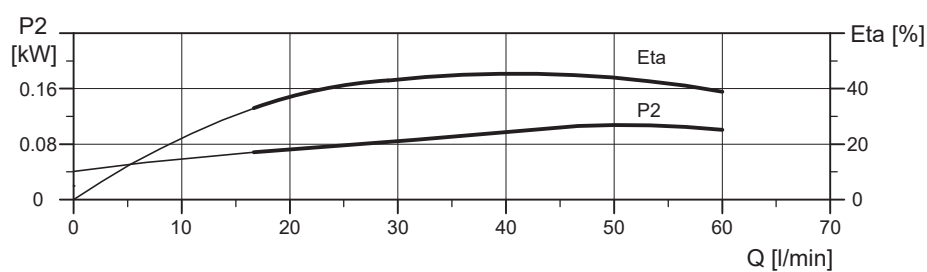
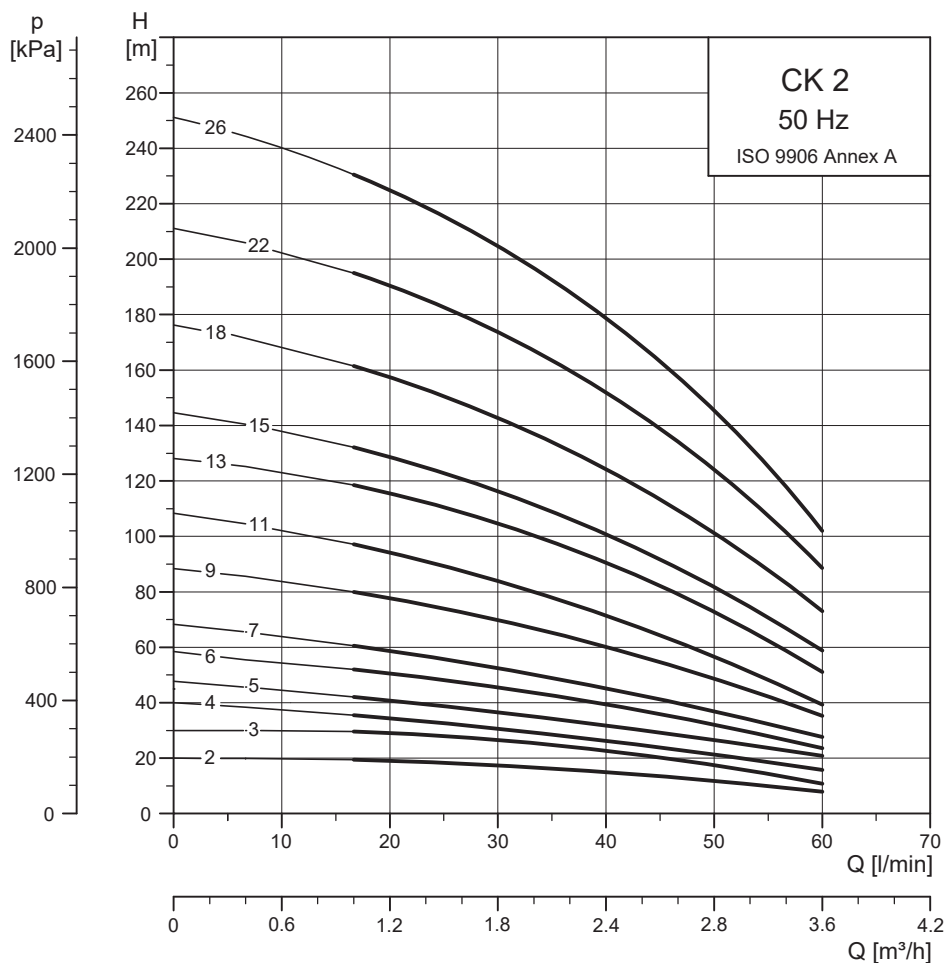


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 2
50 Hz

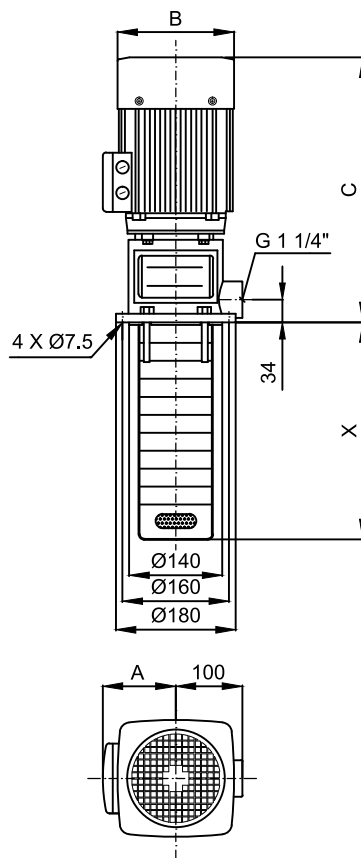


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 2**
50 Hz

Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK2-20/2	0,37	438	123	117	148	315	15
CK2-30/3	0,37	456	141	117	148	315	15
CK2-40/4	0,55	474	159	117	148	315	17
CK2-50/5	0,55	492	177	117	148	315	17
CK2-60/6	0,75	553	195	142	170	358	20
CK2-70/7	0,75	571	213	142	170	358	20
CK2-90/9	1,1	607	249	142	170	358	22
CK2-110/11	1,1	643	285	142	170	358	22
CK2-130/13, CKE2-130/13	1,5	734	321	155 / 205	190	413	29 / 33
CK2-150/15	1,5	770	357	155	190	413	29
CK2-180/18, CKE2-180/18	2,2	824	411	155 / 205	190	413	33 / 37
CK2-220/22	2,2	896	483	155	190	413	33
CK2-260/26, CKE2-260/26	3,0	1003	555	165 / 270	197	448	41 / 49

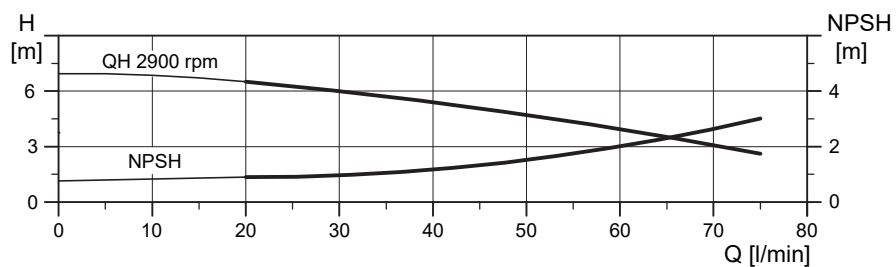
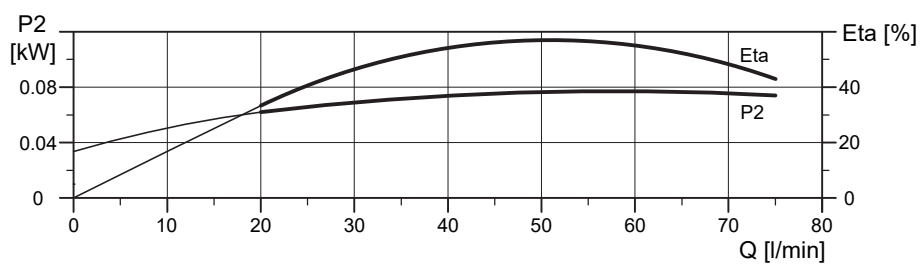
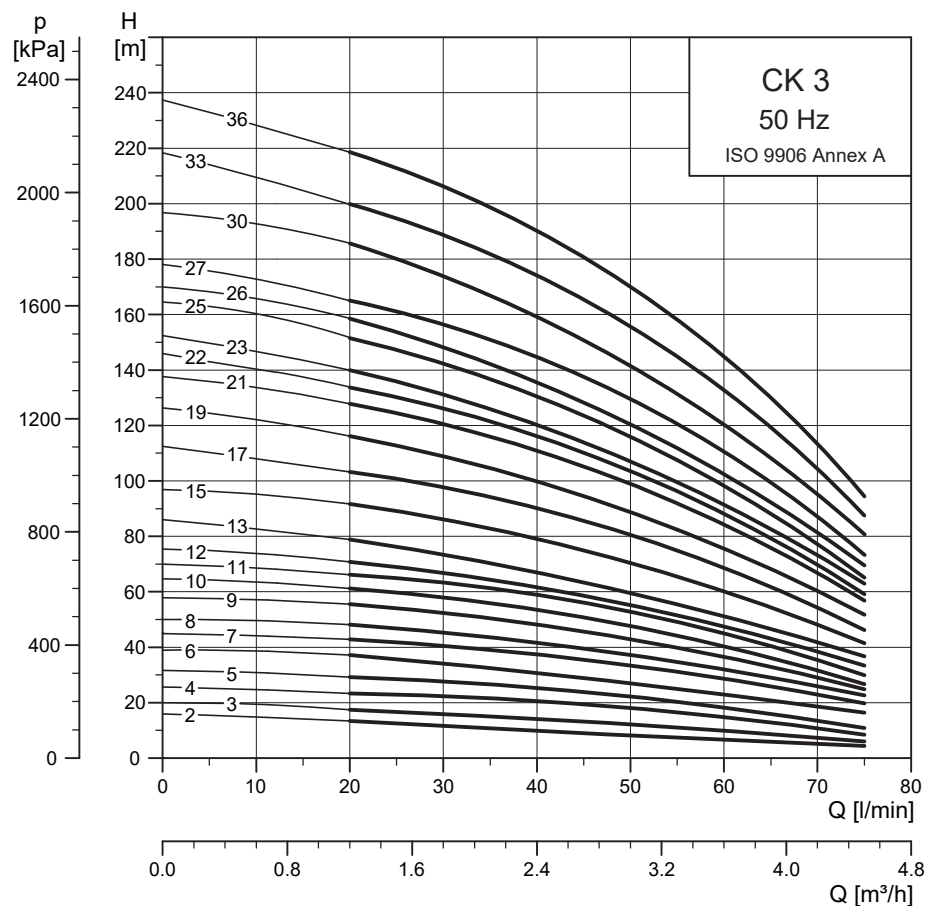
La cota sumergible máxima es de 735 m/m
The maximum immersion depth is 735 m/m.



CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 3
50 Hz



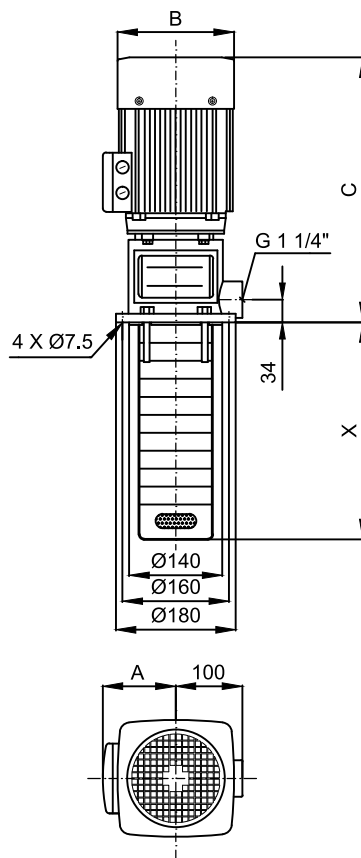


DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA DIMENSIONAL

INSTALLATION SKETCHES

CK, CKE 3
50 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK3-20/2	0,37	465	160	115	141	305	12,1
CK3-30/3	0,37	483	178	115	141	305	12,3
CK3-40/4	0,37	501	196	115	141	305	12,5
CK3-50/5	0,37	519	214	115	141	305	12,7
CK3-60/6	0,55	537	232	115	141	305	13,5
CK3-70/7	0,55	555	250	115	141	305	13,7
CK3-80/8	0,75	613	268	115	141	345	15,5
CK3-90/9	0,75	631	286	115	141	345	15,8
CK3-100/10	0,75	649	304	115	141	345	16,0
CK3-110/11	0,75	667	322	115	141	345	16,2
CK3-120/12	1,1	685	340	115	141	345	17,6
CK3-130/13	1,1	703	358	115	141	345	17,8
CK3-150/15	1,1	739	394	115	141	345	18,3
CK3-170/17	1,5	831	430	141	177	401	25,9
CK3-190/19, CKE3-190/19	1,5	867	466	141 / 205	177	401	26,4 / 33,0
CK3-210/21	2,2	903	502	141	177	401	29,3
CK3-220/22	2,2	921	520	141	177	401	29,5
CK3-230/23	2,2	939	538	141	177	401	29,7
CK3-250/25, CKE3-250/25	2,2	975	574	141 / 205	177	401	30,2 / 37,0
CK3-260/26	2,2	993	592	141	177	401	30,4
CK3-270/27	2,2	1011	610	141	177	401	30,6
CK3-300/30, CKE3-300/30	3,0	1095	664	147 / 270	197	432	36,5 / 48,0
CK3-330/33	3,0	1149	718	147	197	432	38,1
CK3-360/36, CKE3-360/36	3,0	1203	772	147 / 270	197	432	38,8 / 49,0

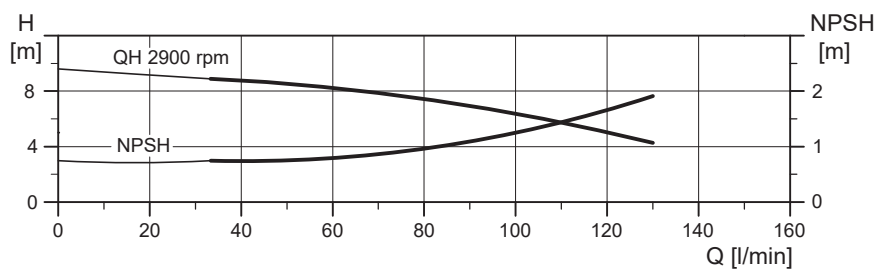
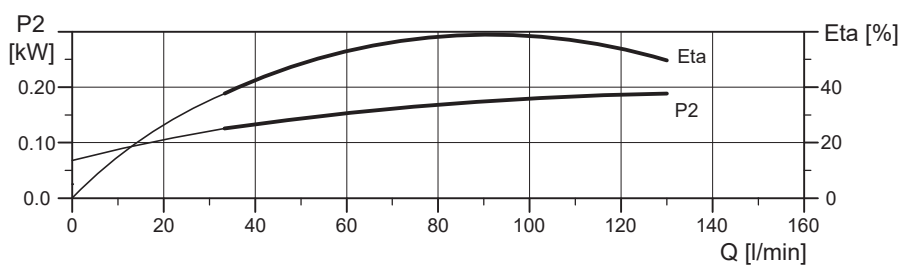
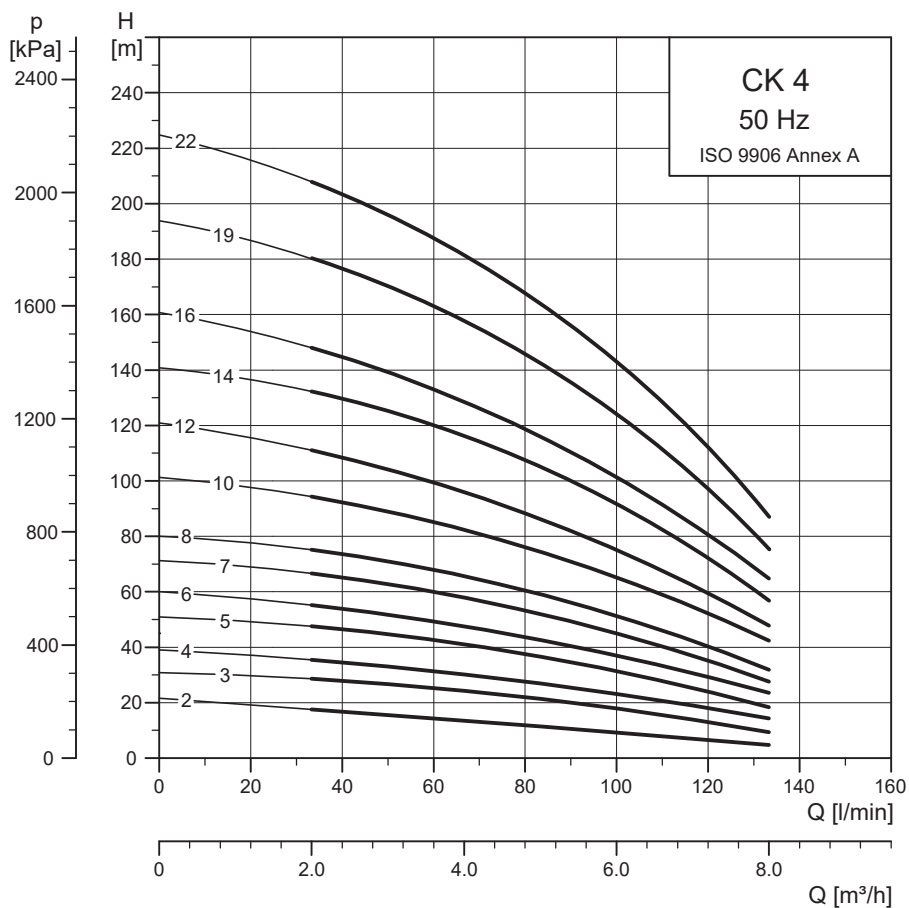
La cota sumergible máxima es de 772 m/m
The maximum immersion depth is 772 m/m.



CURVAS DE PRESTACIONES

PERFORMANCE CURVES

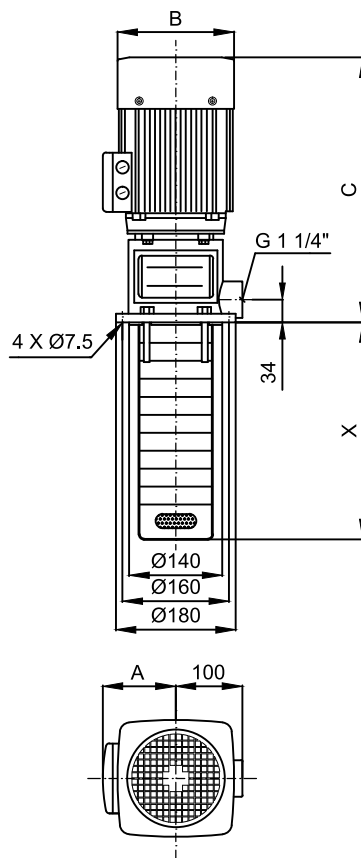
CK, CKE 4
50 Hz





DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 4**
50 Hz

Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK4-20/2	0,37	463	148	117	148	315	15
CK4-30/3	0,55	490	175	117	148	315	15
CK4-40/4	0,75	560	202	142	170	358	18
CK4-50/5	1,1	587	229	142	170	358	20
CK4-60/6	1,1	614	256	142	170	358	21
CK4-70/7	1,5	696	283	155	190	413	27
CK4-80/8, CKE4-80/8	1,5	723	310	155 / 205	190	413	28 / 32
CK4-100/10	2,2	777	364	155	190	413	30
CK4-120/12	2,2	831	418	155	190	413	30
CK4-140/14	3,0	920	472	165	197	448	35
CK4-160/16, CKE4-160/16	3,0	974	526	165 / 270	197	448	35 / 43
CK4-190/19	4,0	1075	607	185	230	468	40
CK4-220/22, CKE4-220/22	4,0	1156	688	185 / 270	230	468	41 / 49

La cota sumergible máxima es de 688 m/m
The maximum immersion depth is 688 m/m.

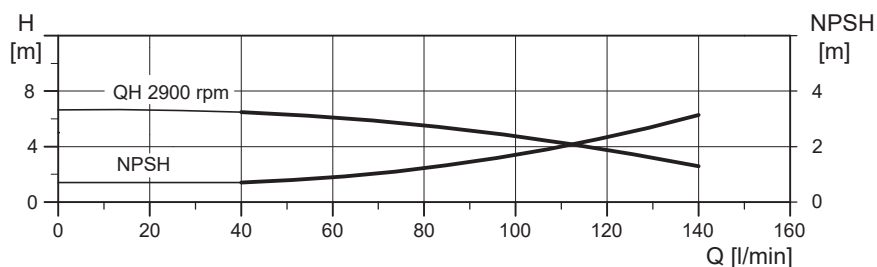
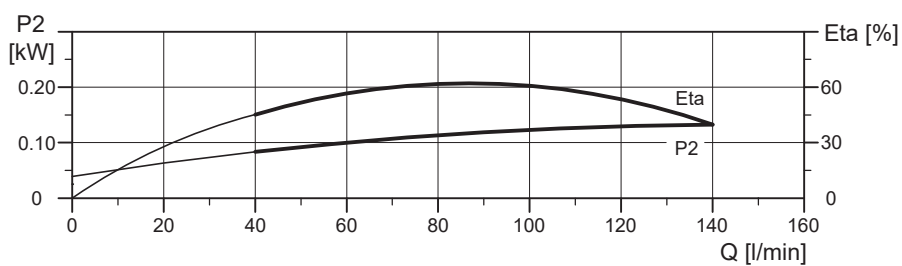
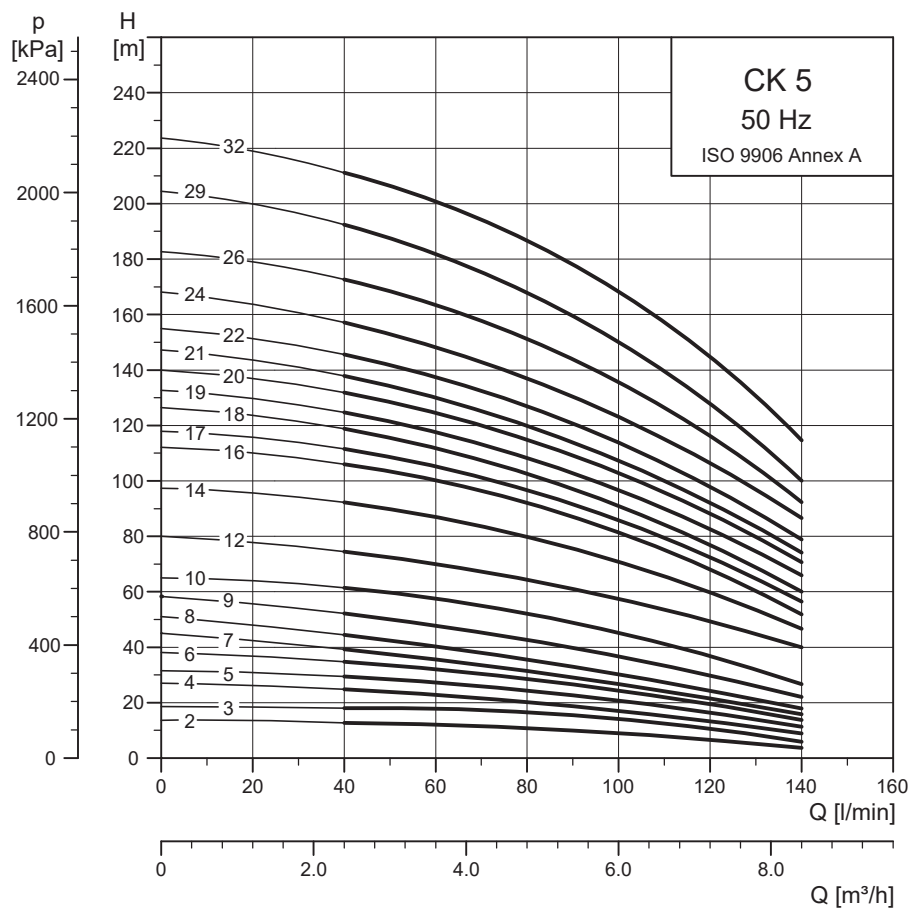


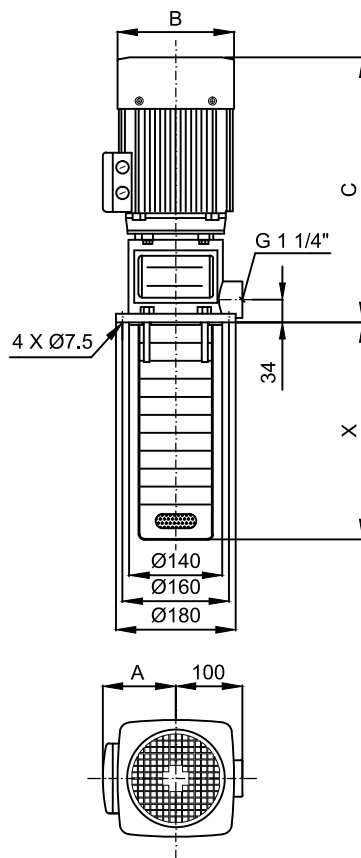
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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 5
50 Hz

**DATOS
TÉCNICOS**
**TECHNICAL
DATA****ESQUEMA
DIMENSIONAL****INSTALLATION
SKETCHES****CK, CKE 5**
50 Hz**Dimensiones y pesos / Dimensions and weights**

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK5-20/2	0,37	474	169	115	141	305	12,2
CK5-30/3	0,55	501	196	115	141	305	13,1
CK5-40/4	0,55	528	223	115	141	305	13,4
CK5-50/5	0,75	595	250	115	141	345	15,4
CK5-60/6	1,1	622	277	115	141	345	16,9
CK5-70/7	1,1	649	304	115	141	345	17,3
CK5-80/8	1,1	676	331	115	141	345	17,6
CK5-90/9	1,5	759	358	141	177	401	25,8
CK5-100/10, CKE5-100/10	1,5	786	385	141 / 205	177	401	26,1 / 30,0
CK5-120/12	2,2	840	439	141	177	401	28,9
CK5-140/14	2,2	894	493	141	177	401	29,3
CK5-160/16, CKE5-160/16	2,2	948	547	141 / 205	177	401	29,6 / 33,0
CK5-170/17	3,0	1005	574	147	197	431	37,0
CK5-180/18	3,0	1032	601	147	197	431	37,4
CK5-190/19	3,0	1059	628	147	197	431	37,7
CK5-200/20, CKE5-200/20	3,0	1086	655	147 / 270	197	431	38,1 / 44,0
CK5-210/21	3,0	1113	682	147	197	431	38,5
CK5-220/22, CKE5-220/22	4,0	1150	709	161 / 270	220	441	45,3 / 53,0
CK5-240/24	4,0	1204	763	161	220	441	46,1
CK5-260/26	4,0	1258	817	161	220	441	46,8
CK5-290/29, CKE5-290/29	4,0	1339	898	161 / 270	220	441	47,9 / 55,0
CK5-320/32, CKE5-320/32	5,5	1485	979	197 / 280	235	506	70,3 / 78,0

La cota sumergible máxima es de 979 m/m
The maximum immersion depth is 979 m/m.

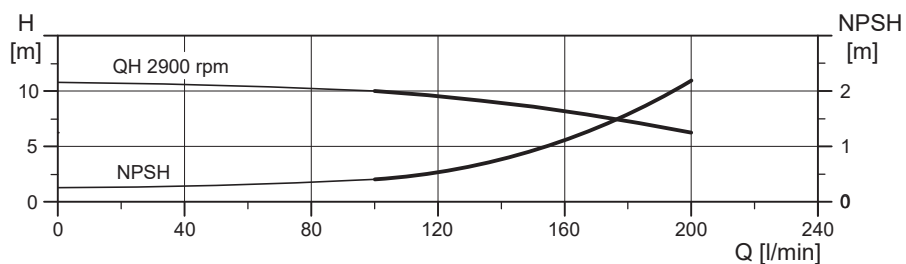
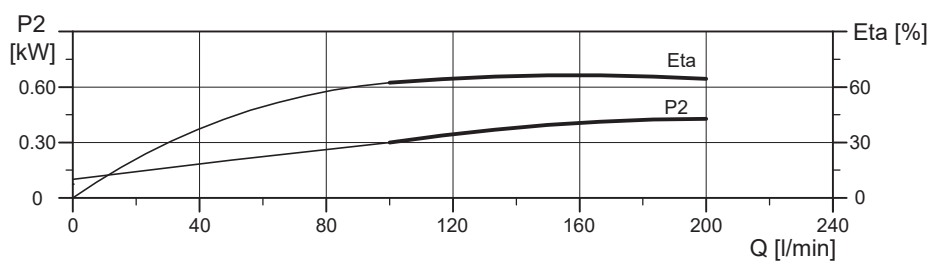
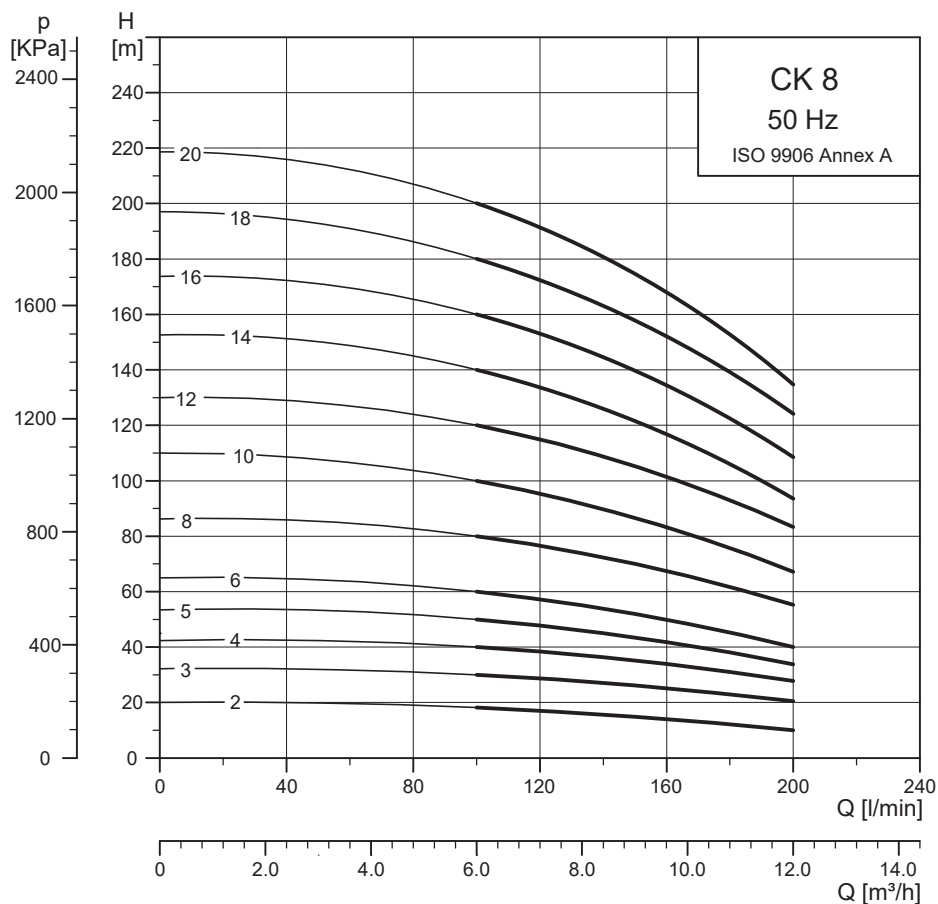


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 8
50 Hz

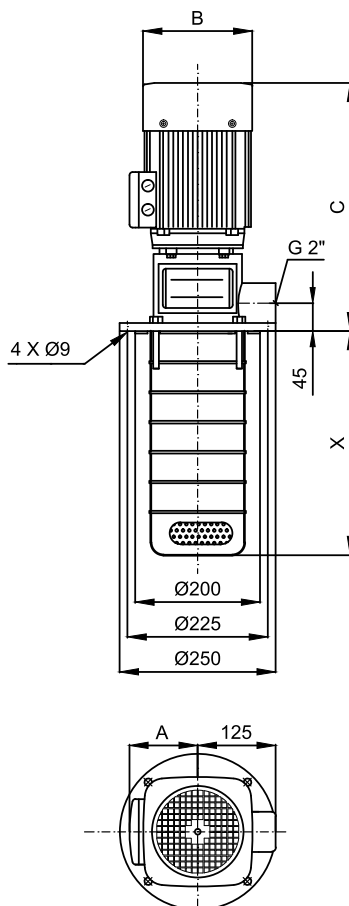


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 8**
50 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK8-20/2	0,75	516	150	142	170	366	22
CK8-30/3	1,1	546	180	142	170	366	27
CK8-40/4, CKE8-40/4	1,5	629	210	155 / 205	190	419	27 / 31
CK8-50/5	2,2	659	240	155	190	419	36
CK8-60/6, CKE8-60/6	2,2	689	270	155 / 205	190	419	37 / 41
CK8-80/8, CKE8-80/8	3,0	784	330	165 / 270	197	454	42 / 50
CK8-100/10	4,0	864	390	185	230	474	52
CK8-120/12, CKE8-120/12	4,0	924	450	185 / 270	230	474	53 / 61
CK8-140/14	5,5	1099	510	210	260	589	75
CK8-160/16, CKE8-160/16	5,5	1159	570	210 / 280	260	589	77 / 85
CK8-180/18	7,5	1219	630	210	260	589	85
CK8-200/20, CKE8-200/20	7,5	1279	690	210 / 280	260	589	87 / 95

La cota sumergible máxima es de 855 m/m
The maximum immersion depth is 855 m/m.

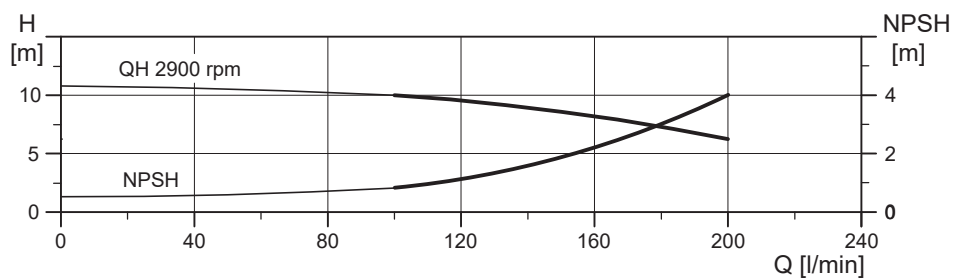
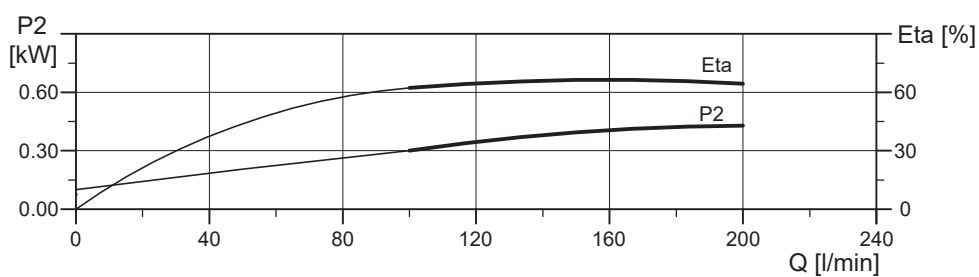
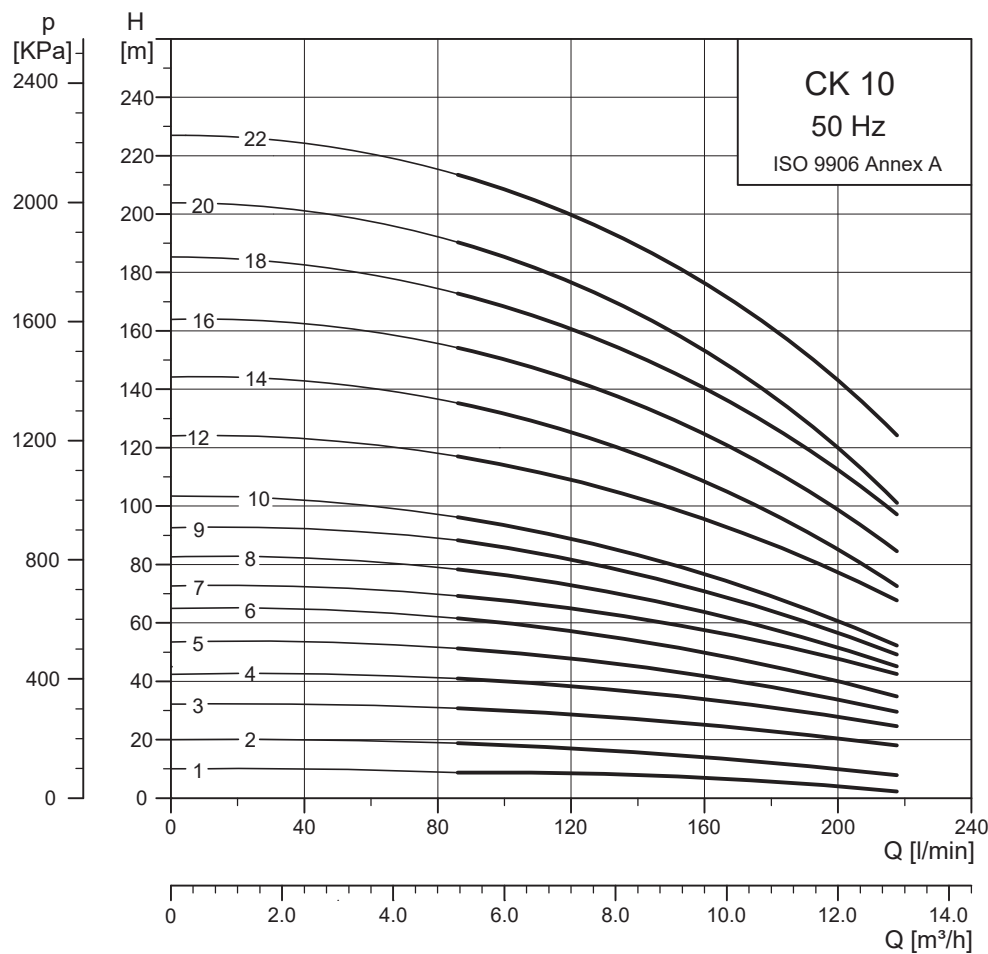


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 10
50 Hz

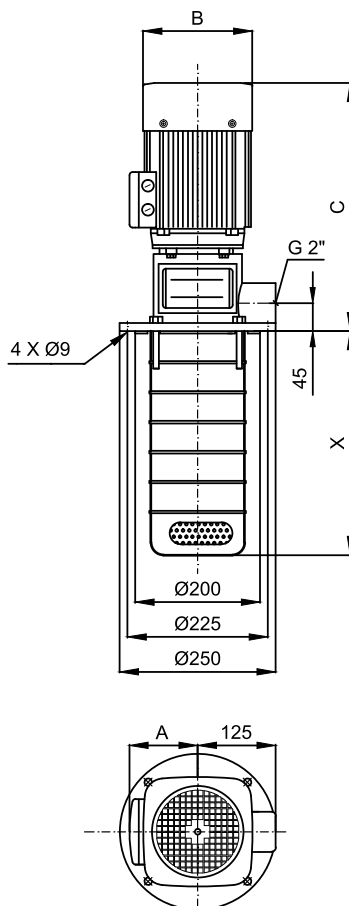


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 10**
50 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK10-20/1	0,75	523	148	115	141	375	21,7
CK10-20/2	0,75	523	148	115	141	375	21,8
CK10-30/3	1,1	553	178	115	141	375	23,7
CK10-40/4	1,5	639	208	141	177	431	32,2
CK10-50/5, CKE10-50/5	2,2	669	238	141/205	177	431	35,4 / 39,0
CK10-60/6	2,2	699	268	141	177	431	36,1
CK10-70/7	3,0	755	298	147	197	457	42,6
CK10-80/8, CKE10-80/8	3,0	785	328	147/270	197	457	43,3 / 47,0
CK10-90/9	3,0	815	358	147	197	457	44,2
CK10-100-10, CKE10-100/10	4,0	855	388	161/270	220	467	51,4 / 55,0
CK10-120/12	4,0	915	448	161	220	467	52,9
CK10-140/14	5,5	1041	508	197	235	533	79,0
CK10-160/16, CKE10-160/16	5,5	1101	568	197/280	235	533	80,5 / 85,0
CK10-180/18	7,5	1197	628	197	235	569	90,4
CK10-220/20	7,5	1257	688	197	235	569	91,9
CK10-220/22, CKE10-220/22	7,5	1317	748	197 / 280	235	569	93,4 / 98,0

La cota sumergible máxima es de 853 m/m
The maximum immersion depth is 853 m/m.

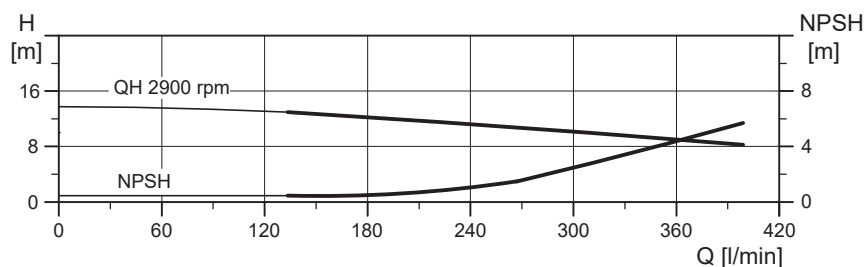
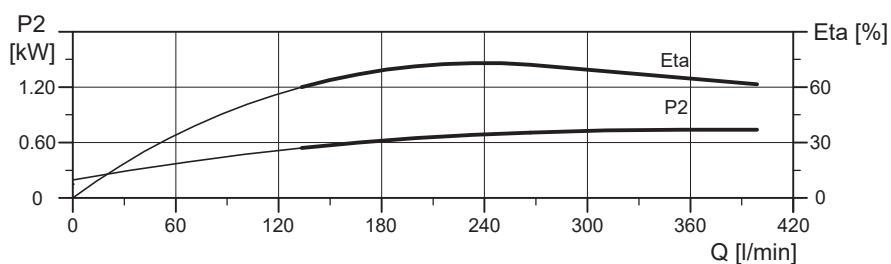
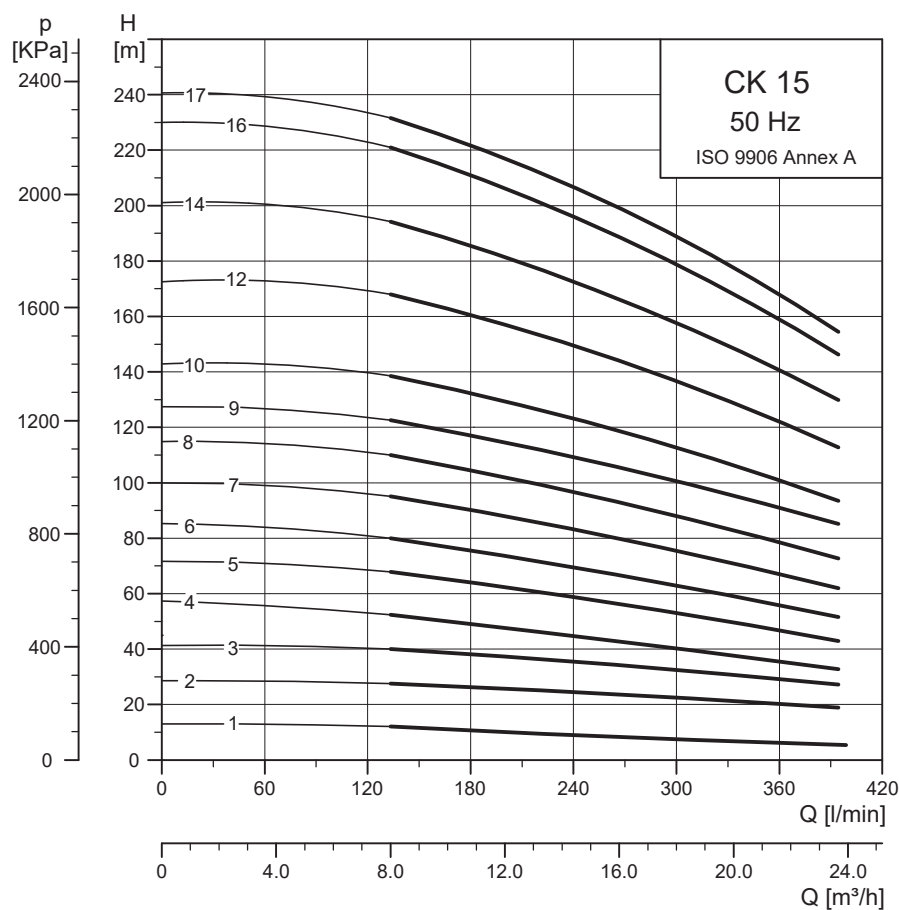


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 15
50 Hz



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BOMBAS
CENTRÍFUGAS
VERTICALES

CENTRIFUGAL
VERTICAL
PUMPS

HL, T, TCP,
IDL, ORK,
CK, CKE

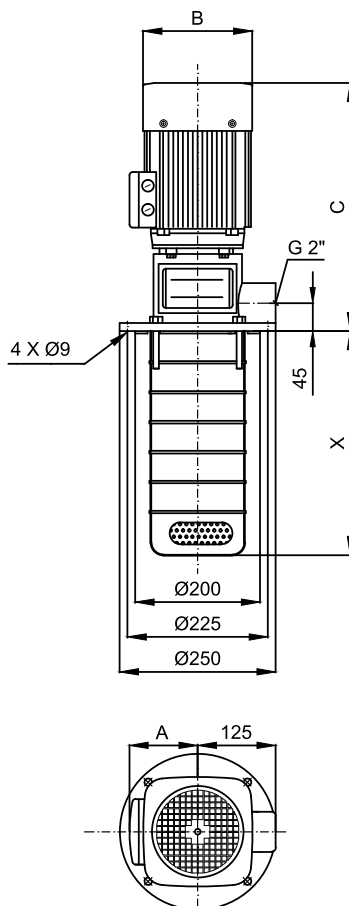
DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONAL

INSTALLATION
SKETCHES

CK, CKE 15
50 Hz



Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK15-20/1	1,1	553	178	115	141	375	23,6
CK15-20/2, CKE15-20/2	2,2	609	178	141/205	177	431	34,1 / 39,0
CK15-30/3	3,0	680	223	147	197	457	37,2
CK15-40/4	4,0	735	268	161	220	467	45,3
CK15-50/5, CKE15-50/5	4,0	780	313	161/270	220	467	49,2 / 44,0
CK15-60/6	5,5	891	358	197	235	533	74,8
CK15-70/7	5,5	936	403	197	235	533	75,8
CK15-80/8, CKE15-80/8	7,5	1017	448	197/280	235	569	85,2 / 89,0
CK15-90/9	7,5	1062	493	197	235	569	86,2
CK15-100-10, CKE15-100/10	11,0	1243	538	245/310	318	705	117,2 / 123,0
CK15-120/12	11,0	1333	628	245	318	705	119,2
CK15-140/14	11,0	1423	718	245	318	705	121,3
CK15-160/16	15,0	1518	808	245	318	710	133,8
CK15-170/17	15,0	1563	853	245	318	710	134,9

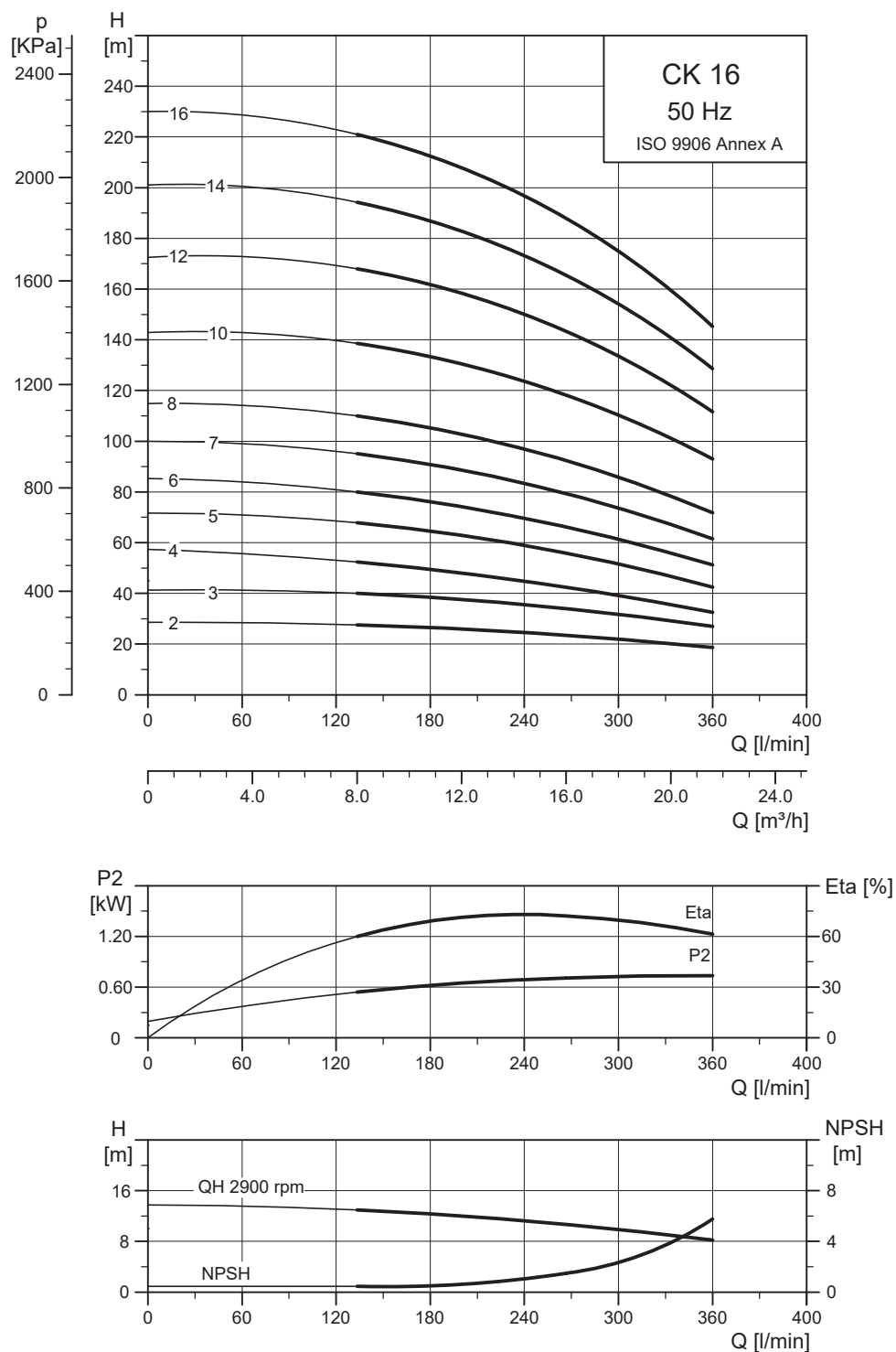
La cota sumergible máxima es de 853 m/m
The maximun immersion depth is 853 m/m.



CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 16
50 Hz



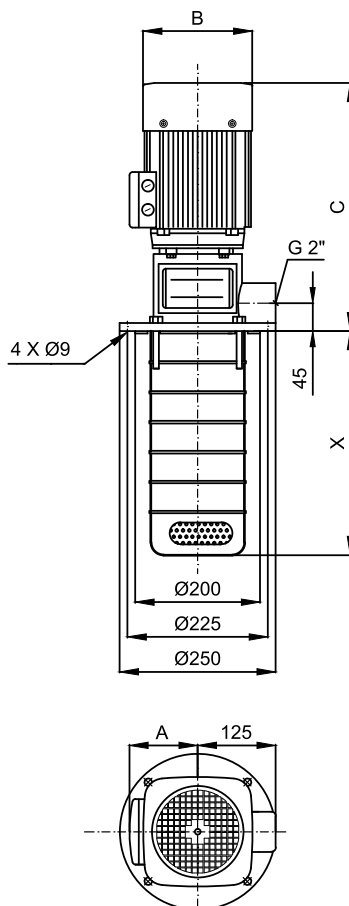
DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA DIMENSIONAL

INSTALLATION SKETCHES

CK, CKE 16
50 Hz



Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK16-20/2	2,2	599	180	155	190	419	37
CK16-30/3, CK16-30/3	3,0	679	225	165 / 270	197	454	47 / 55
CK16-40/4	4,0	744	270	185	230	474	52
CK16-50/5	5,5	904	315	210	260	589	67
CK16-60/6, CK16-60/6	5,5	949	360	210 / 280	260	589	72 / 80
CK16-70/7	7,5	994	405	210	260	589	77
CK16-80/8, CK16-80/8	7,5	1039	450	210 / 280	260	589	78 / 86
CK16-100/10	11	1230	540	255	330	690	135
CK16-120/12, CK16-120/12	11	1320	630	255 / 310	330	690	140 / 148
CK16-140/14	15	1410	720	255	330	690	155
CK16-160/16	15	1500	810	255	330	690	162

La cota sumergible máxima es de 810 m/m
The maximum immersion depth is 810 m/m.

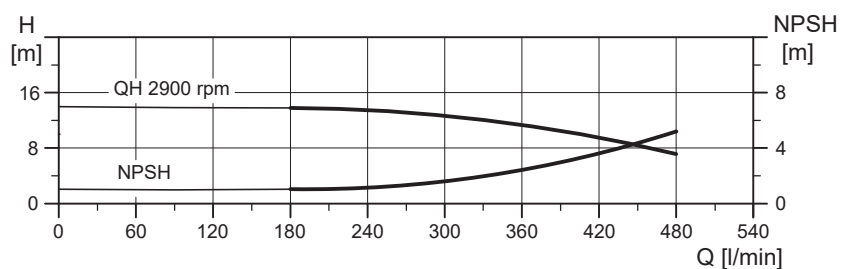
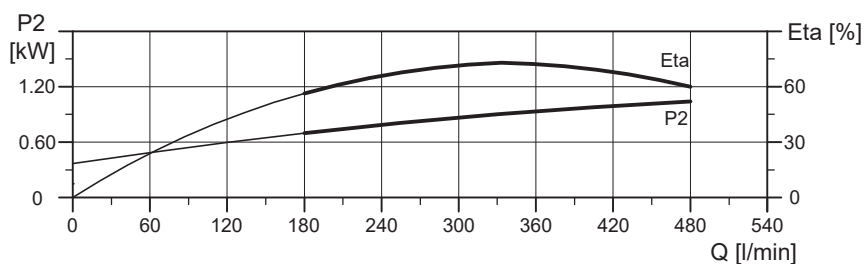
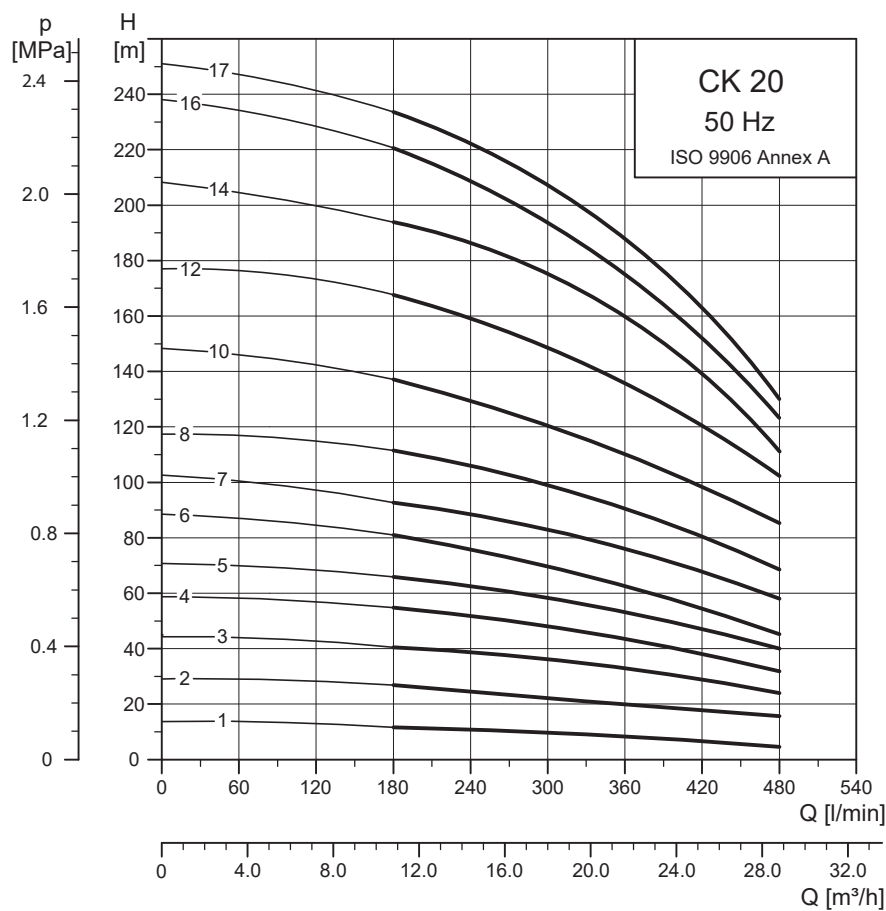


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 20
50 Hz

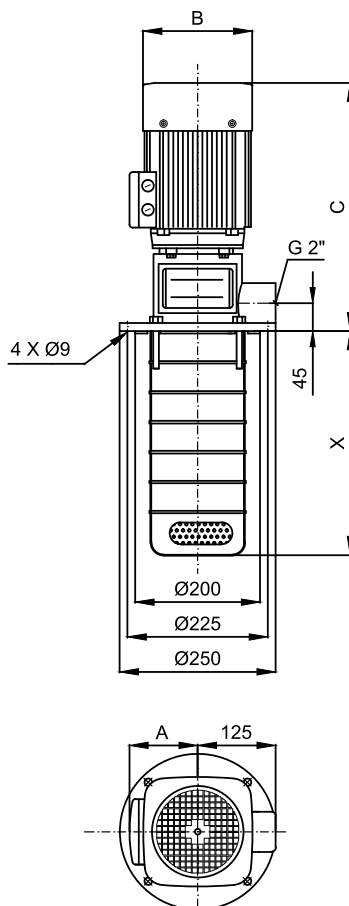


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 20**
50 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK20-20/1	1,1	553	178	115	141	375	23,5
CK20-20/2, CKE20-20/2	2,2	609	178	141/205	177	431	34,1 /35,0
CK20-30/3	4,0	690	223	161	220	467	47,2
CK20-40/4	5,5	801	268	197	235	533	72,8
CK20-50/5, CKE20-50/5	5,5	846	313	197/280	235	533	73,8 /78,0
CK20-60/6	7,5	927	358	197	235	569	83,2
CK20-70/7	7,5	977	403	197	235	569	84,2
CK20-80/8, CKE20-80/8	11,0	1153	448	245/310	318	705	115,3/ 120,0
CK20-100/10	11,0	1243	538	245	318	705	117,2
CK20-120/12	15,0	1338	628	245	318	710	129,8
CK20-140/14	15,0	1428	718	245	318	710	131,8
CK20-160/16	18,5	1558	808	245	318	750	162,7
CK20-170/17	18,5	1603	853	245	318	750	163,7

La cota sumergible máxima es de 853 m/m
The maximun immersion depth is 853 m/m.

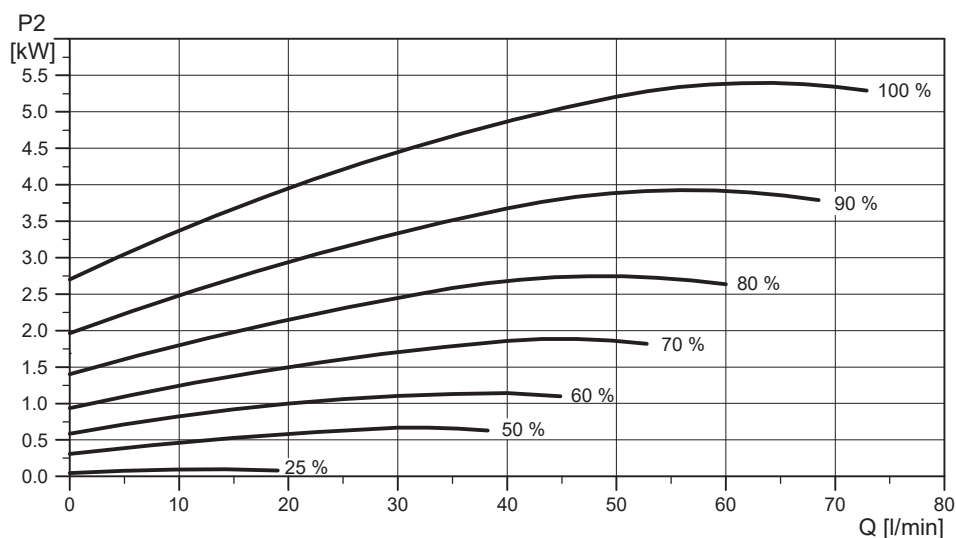
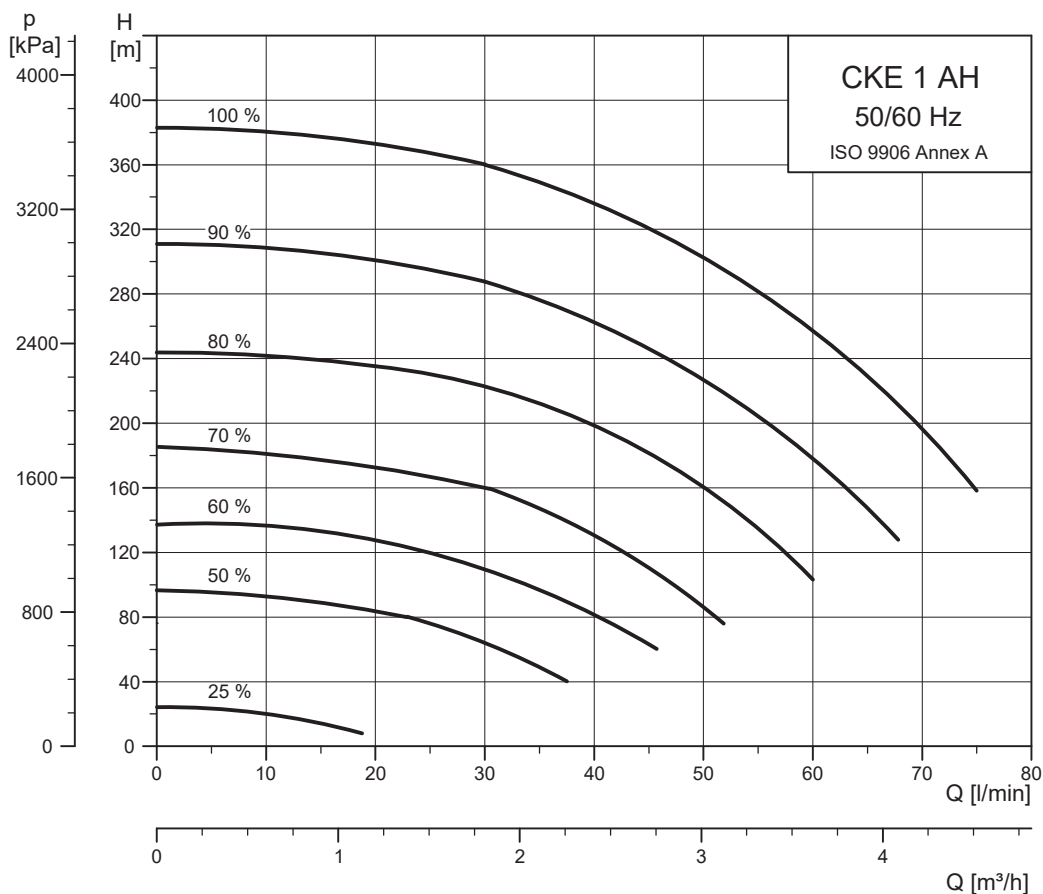


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CKE 1-AH
50/60 Hz

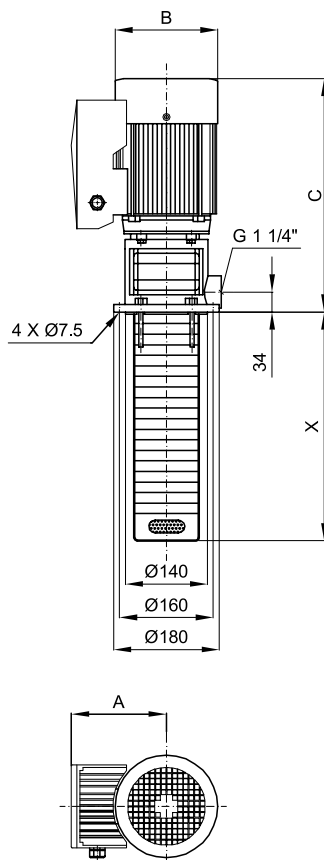


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CKE 1-AH**
50/60 Hz

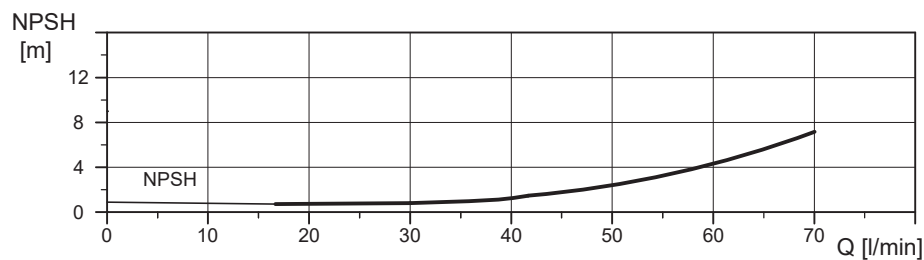
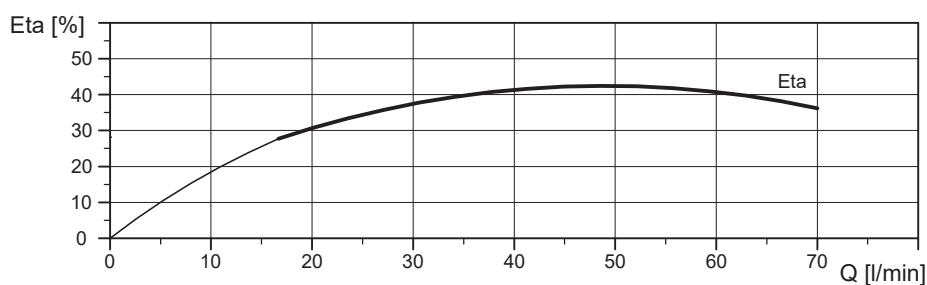
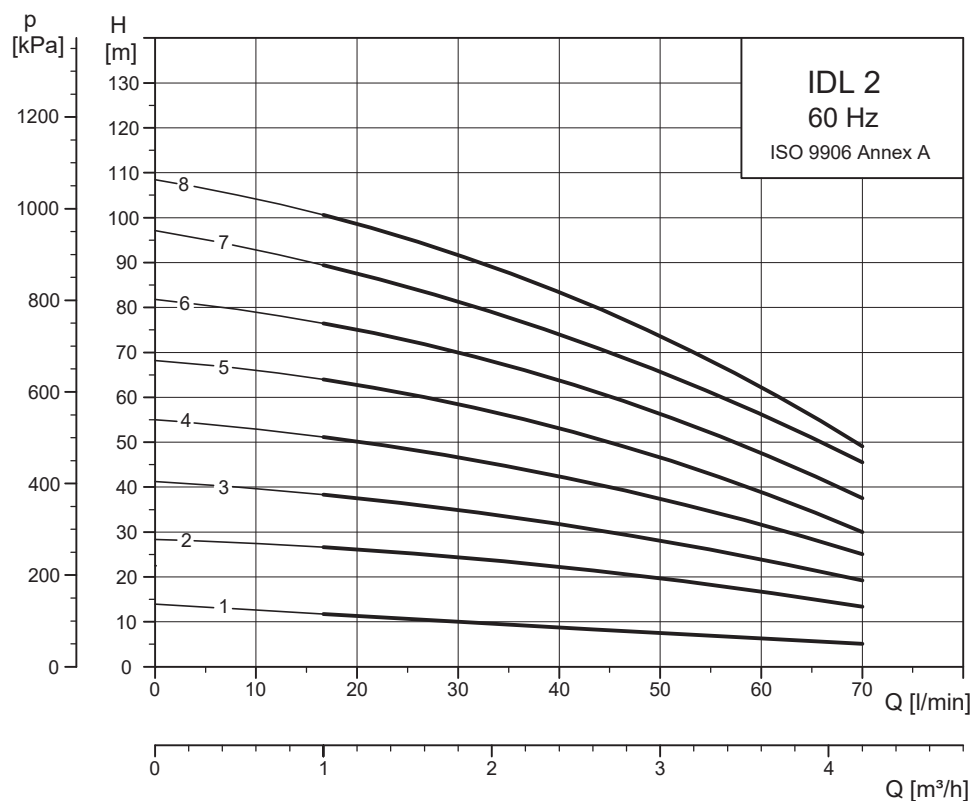
Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CKE-190/19 AH	5,5	945	435	280	220	510	60,0
CKE-220/19 AH	5,5	993	483	280	220	510	60,5
CKE-260/19 AH	5,5	1065	555	280	220	510	61,0



CURVAS DE PRESTACIONES

PERFORMANCE CURVES

**IDL2
60 Hz**

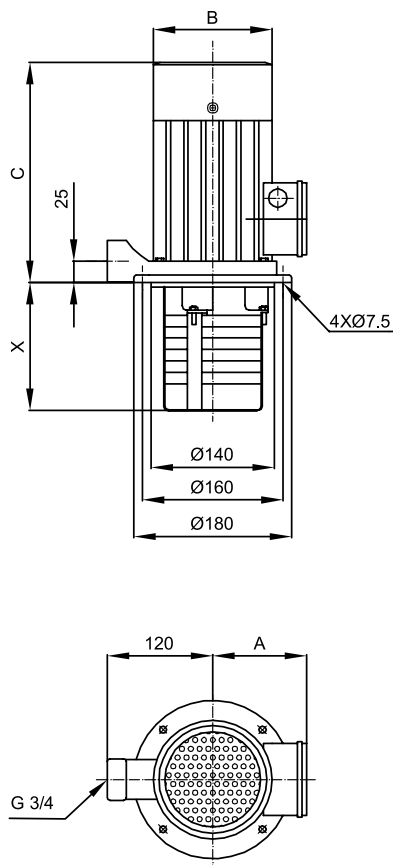


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL2**
60 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL2-30/1	0,55	346	142	112	141	204	11,6
IDL2-30/2	0,55	346	142	112	141	204	11,7
IDL2-30/3	0,75	346	142	112	141	204	11,8
IDL2-40/4	1,1	364	160	112	141	204	12,1
IDL2-50/5	1,1	422	178	112	141	244	13,7
IDL2-60/6	1,5	440	196	112	141	244	14,1
IDL2-70/7	1,5	458	214	112	141	244	15,4
IDL2-80/8	1,5	476	232	112	141	244	15,7
IDL2-90/8	1,5	494	250	112	141	244	15,9
IDL2-100/8	1,5	512	268	112	141	244	16,1
IDL2-110/8	1,5	530	286	112	141	244	16,3

La cota sumergible máxima es de 286 m/m
The maximun immersion depth is 286 m/m.

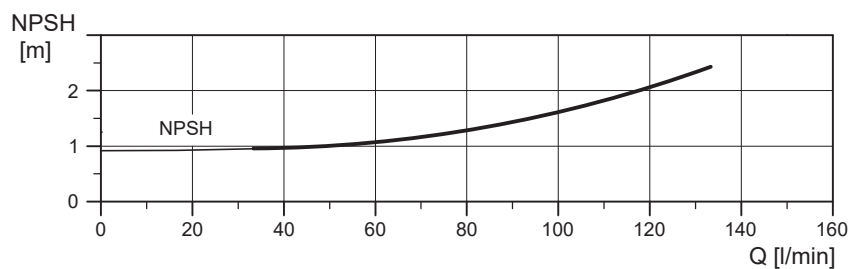
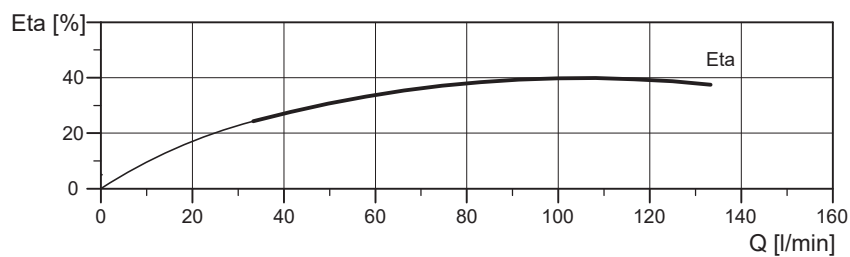
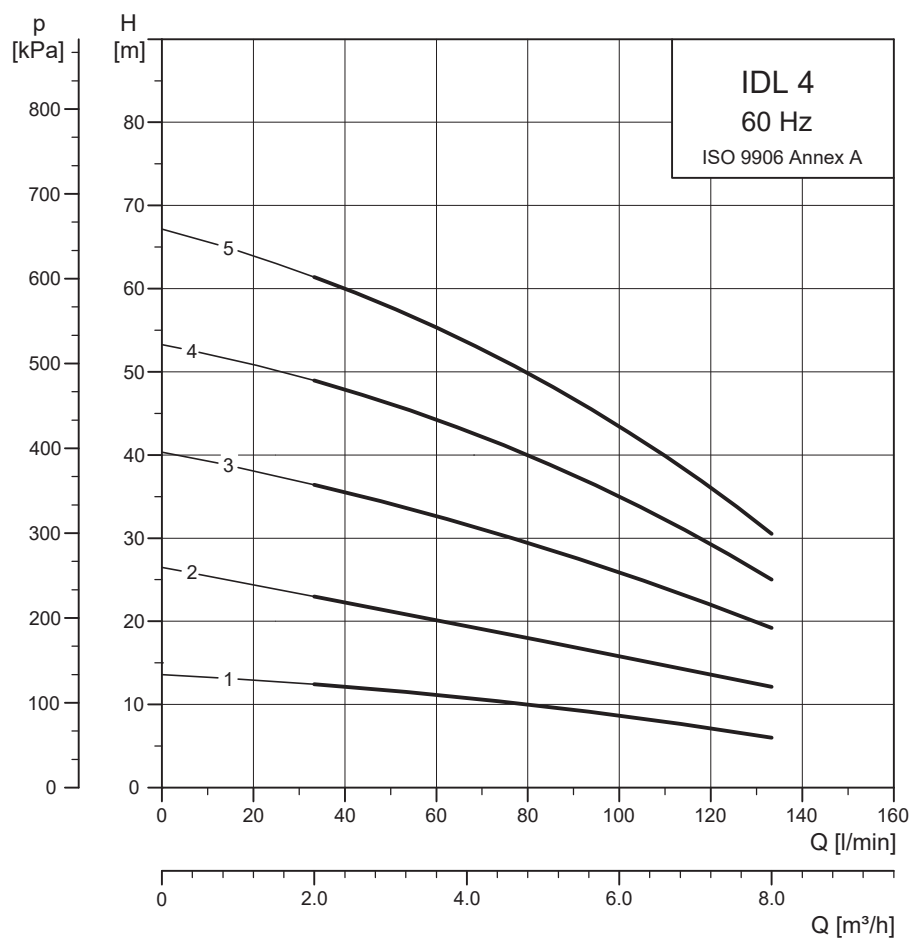


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

IDL4
60 Hz

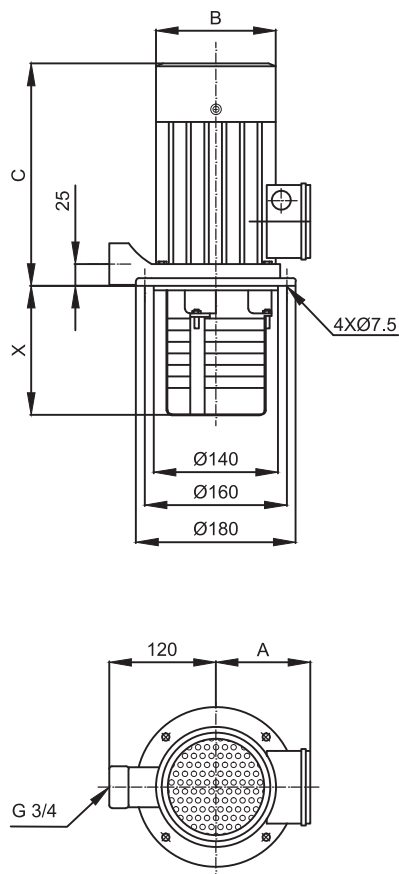


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL4**
60 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL4-20/1	0,75	346	142	112	141	204	11,5
IDL4-20/2	0,75	346	142	112	141	204	11,6
IDL4-30/3	1,1	413	169	112	141	244	13,4
IDL4-40/4	1,5	440	196	112	141	244	14,8
IDL4-50/5	2,2	467	223	112	141	244	15,2
IDL4-60/5	2,2	494	250	112	141	244	15,5
IDL4-70/5	2,2	521	277	112	141	244	15,6
IDL4-80/5	2,2	548	304	112	141	244	15,8

La cota sumergible máxima es de 304 m/m
The maximum immersion depth is 304 m/m.

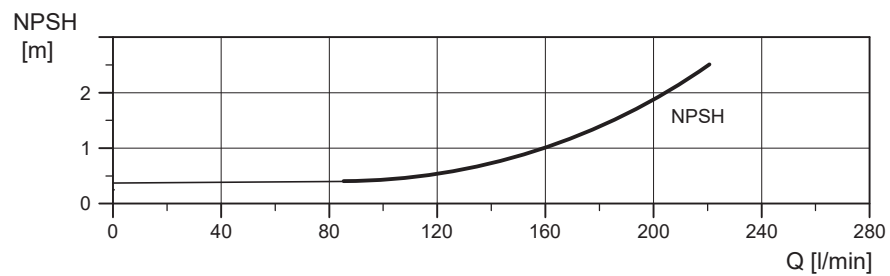
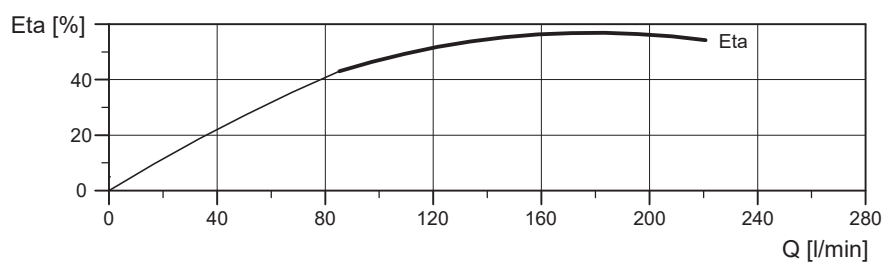
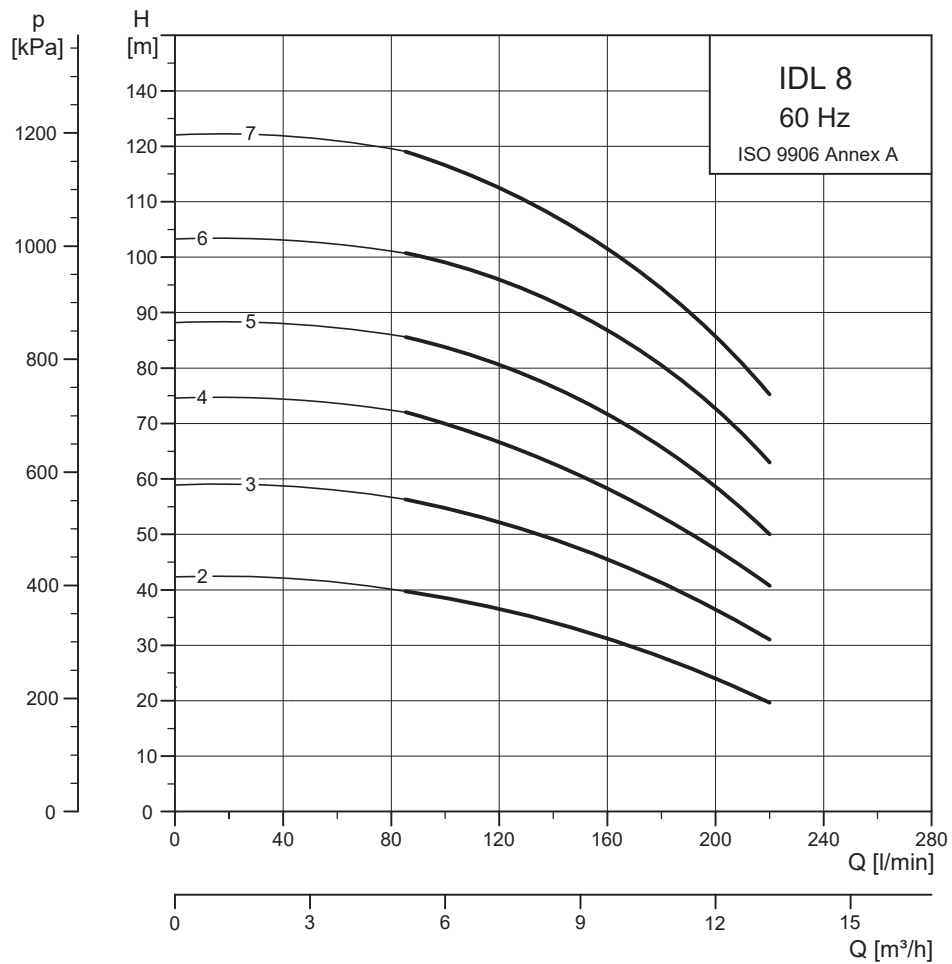


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

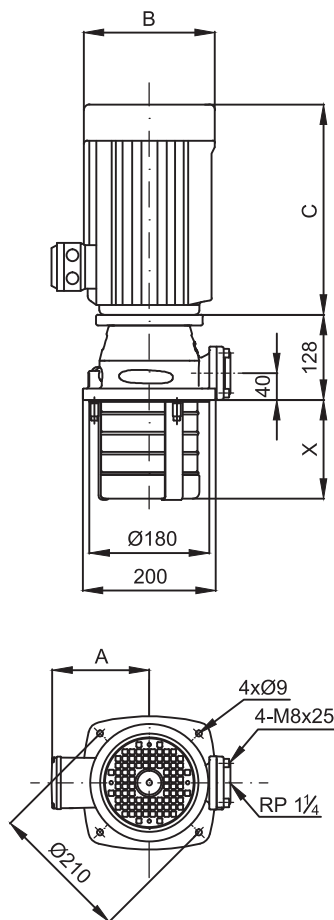
PERFORMANCE CURVES

**IDL8
60 Hz**



DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL8**
60 Hz

Datos técnicos / Technical data

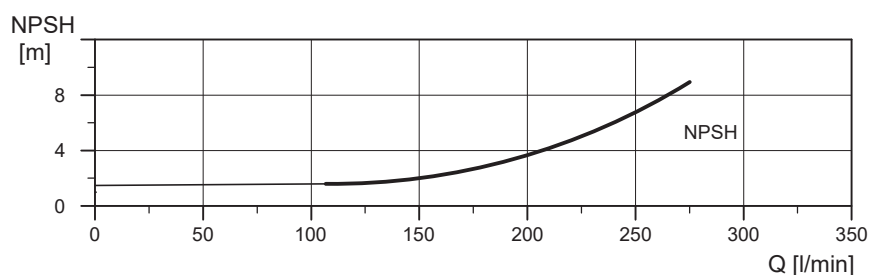
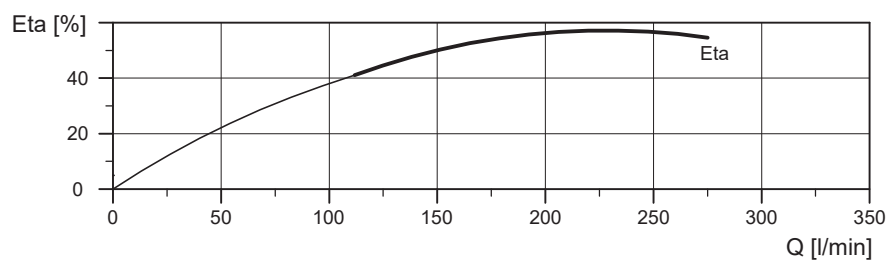
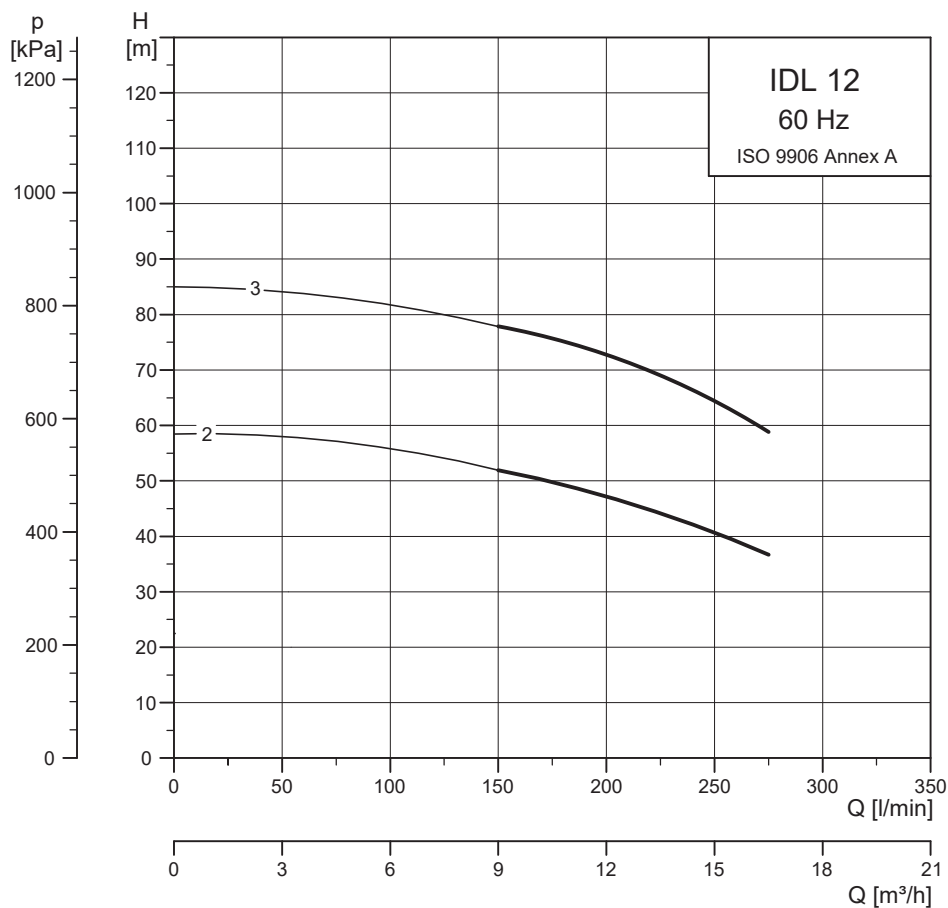
Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL8-20/2	1,7	423	60	115	141	235	19,2
IDL8-30/3	2,6	509	90	141	177	291	28,5
IDL8-40/4	3,4	539	120	141	177	291	31,3
IDL8-50/5	4,1	594	150	147	197	316	37,7
IDL8-60/6	4,8	634	180	161	220	326	43,9
IDL8-70/7	5,4	664	210	161	220	326	44,7

La cota sumergible máxima es de 210 m/m
The maximum immersion depth is 210 m/m.

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

IDL12
60 Hz



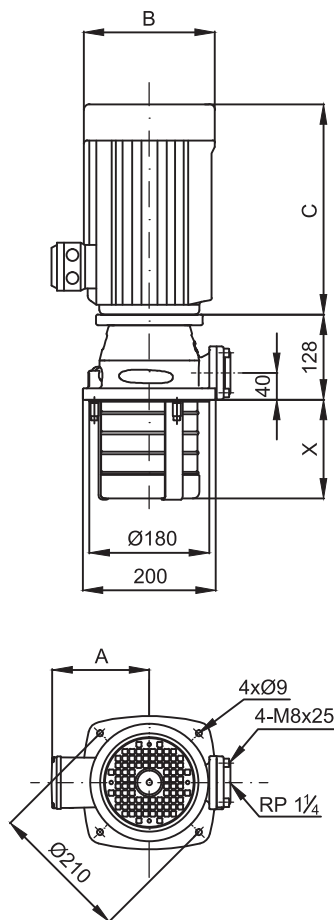


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**IDL12**
60 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
IDL12-20/2	3,9	504	60	147	197	316	34,8
IDL12-30/3	5,6	544	90	161	220	326	41,7
IDL12-40/3	5,6	574	120	161	220	326	42,05
IDL12-50/3	5,6	604	150	161	220	326	42,4
IDL12-60/3	5,6	634	180	161	220	326	42,8
IDL12-70/3	5,6	664	210	161	220	326	43,1

La cota sumergible máxima es de 210 m/m
The maximum immersion depth is 210 m/m.

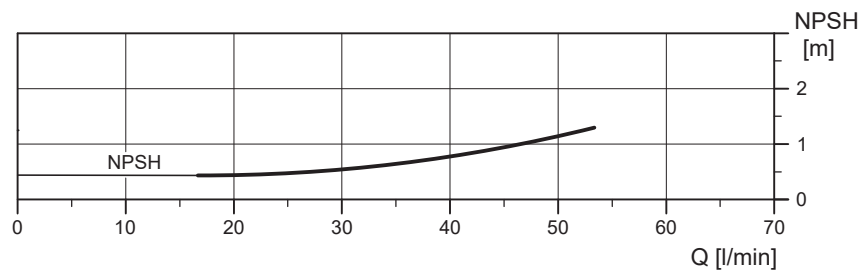
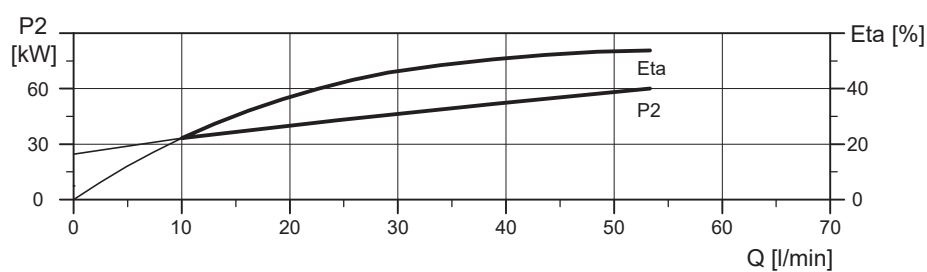
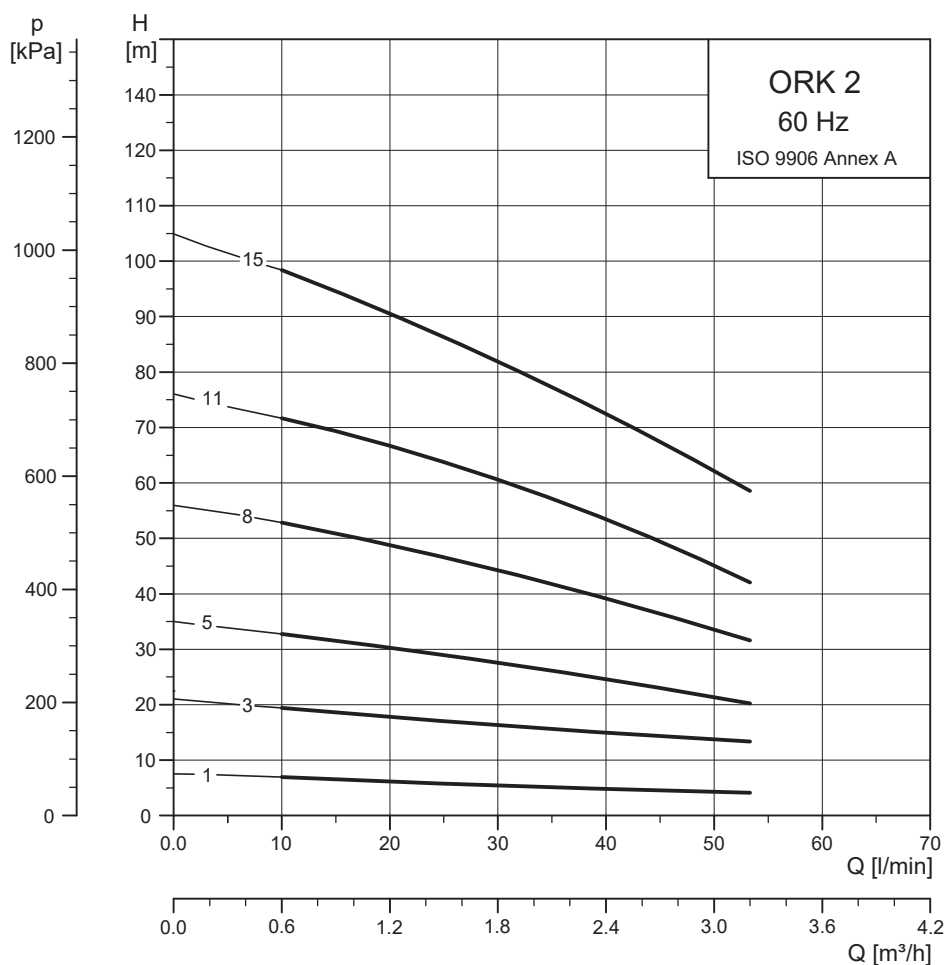


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

ORK2
60 Hz

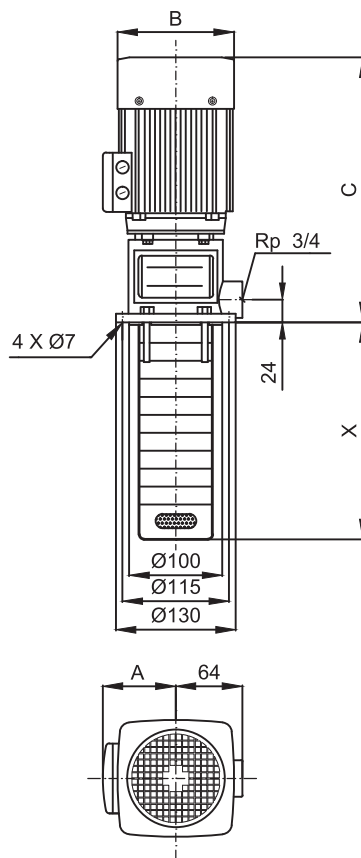


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**ORK2**
60 Hz

Datos técnicos / Technical data

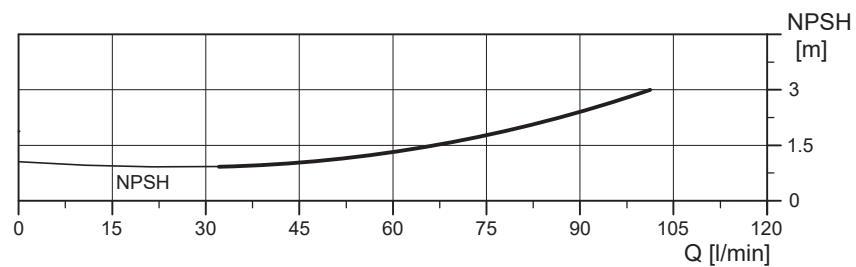
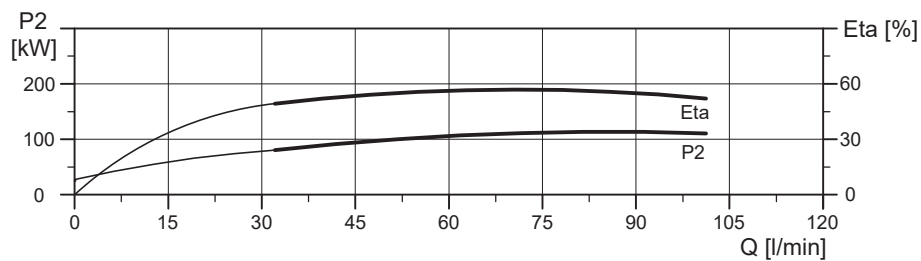
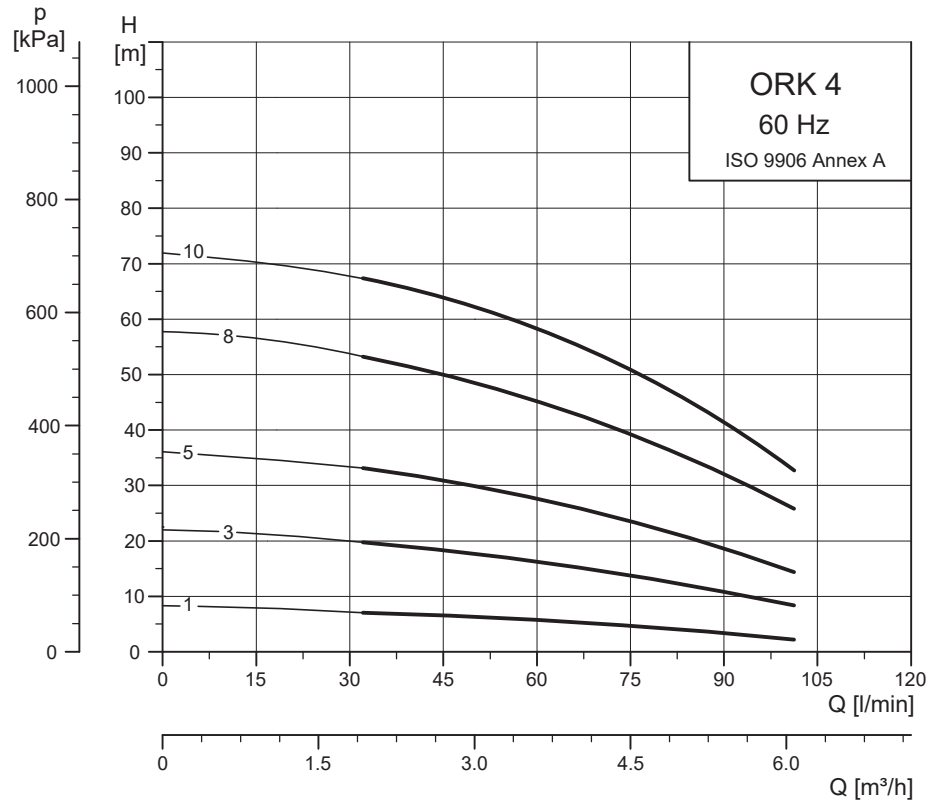
Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
ORK2-10/1	0,37	413	143	115	141	270	9,4
ORK2-30/3	0,37	455	185	115	141	270	9,8
ORK2-50/5	0,37	497	227	115	141	270	10,2
ORK2-80/8	0,55	560	290	115	141	270	11,3
ORK2-110/11	0,75	666	353	115	141	313	13,8
ORK2-150/15	1,1	750	437	115	141	313	15,0
ORK2-190/15	1,1	834	521	115	141	313	15,7
ORK2-230/15	1,1	918	605	115	141	313	16,7

La cota sumergible máxima es de 605 m/m
The maximum immersion depth is 605 m/m.



CURVAS DE PRESTACIONES

PERFORMANCE CURVES

ORK4
60 Hz

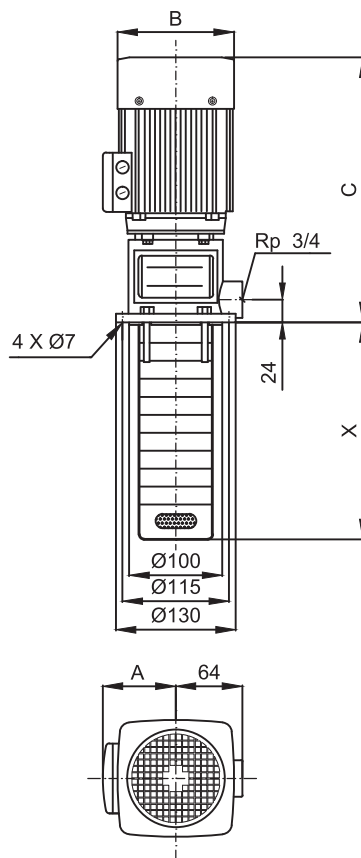


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**ORK4**
60 Hz

Datos técnicos / Technical data

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
ORK4-10/1	0,37	413	143	115	141	270	9,4
ORK4-30/3	0,37	455	185	115	141	270	9,8
ORK4-50/5	0,55	497	227	115	141	270	10,7
ORK4-80/8	1,1	603	290	115	141	313	14,2
ORK4-110/10	1,1	666	353	115	141	313	14,7
ORK4-150/10	1,1	750	437	115	141	313	15,2
ORK4-190/10	1,1	834	521	115	141	313	15,6

La cota sumergible máxima es de 521 m/m
The maximum immersion depth is 521 m/m.

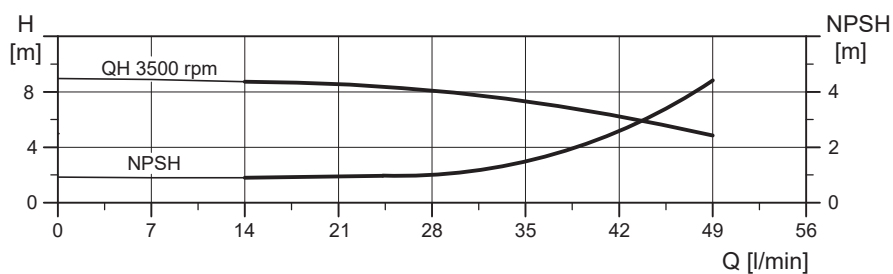
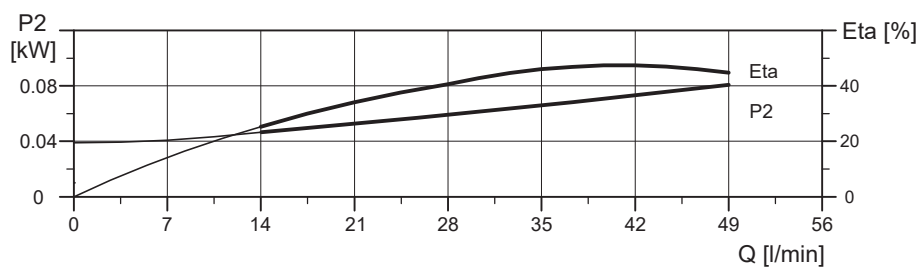
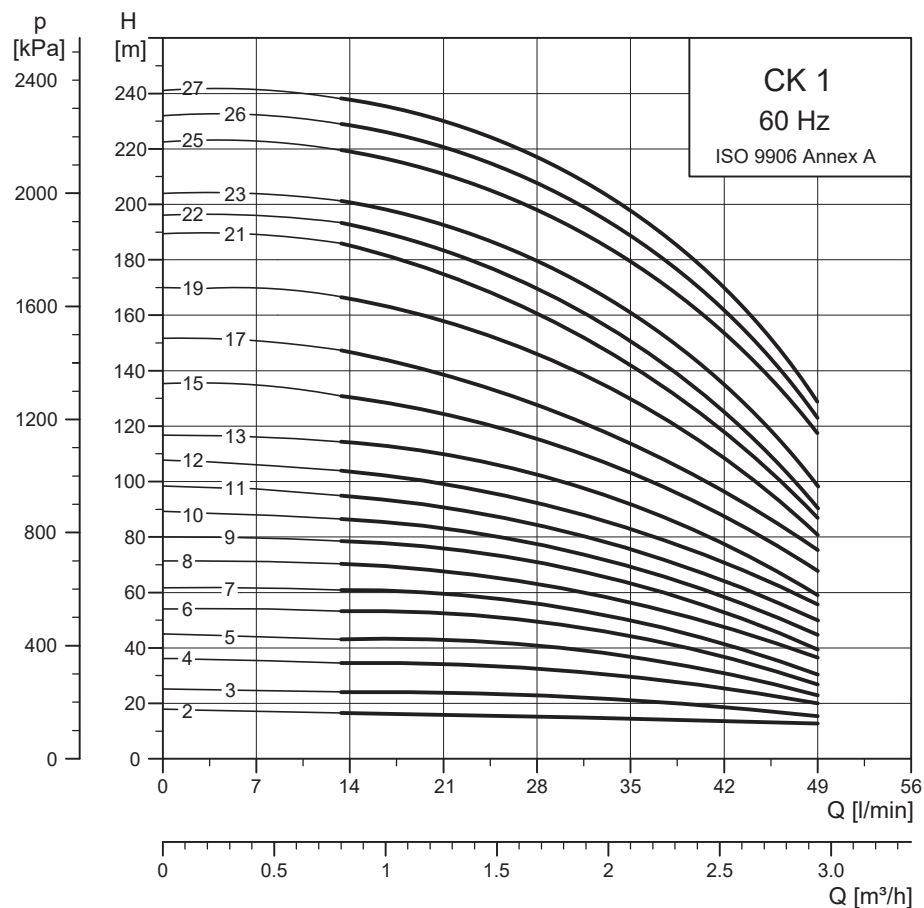


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 1
60 Hz

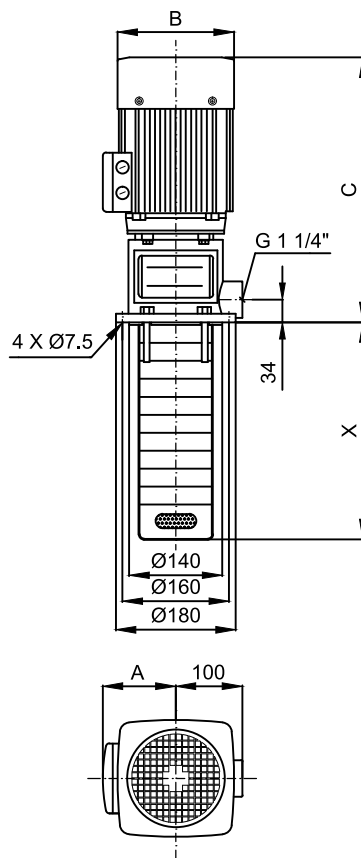


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 1**
60 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK1-20/2	0,37	465	160	115	141	305	12,1
CK1-30/3	0,37	483	178	115	141	305	12,3
CK1-40/4	0,37	501	196	115	141	305	12,5
CK1-50/5	0,55	519	214	115	141	305	13,2
CK1-60/6	0,55	537	232	115	141	305	13,5
CK1-70/7	0,75	595	250	115	141	345	15,3
CK1-80/8	0,75	613	268	115	141	345	15,5
CK1-90/9	0,75	631	286	115	141	345	15,7
CK1-100/10	1,1	649	304	115	141	345	17,1
CK1-110/11	1,1	667	322	115	141	345	17,3
CK1-120/12	1,1	685	340	115	141	345	17,6
CK1-130/13	1,1	703	358	115	141	345	17,8
CK1-150/15	1,5	795	394	141	177	401	25,8
CK1-170/17, CKE1-170/17	1,5	831	430	141 / 205	177	401	26,2 / 35,0
CK1-190/19	2,2	867	466	141	177	401	29,1
CK1-210/21, CKE1-210/21	2,2	903	502	141 / 205	177	401	29,5 / 34,5
CK1-220/22	2,2	921	520	141	177	401	29,8
CK1-230/23	2,2	939	538	141	177	401	30,0
CK1-250/25, CKE1-250/25	2,2	975	574	141 / 205	177	401	30,2 / 39
CK1-260/26	3,0	1024	592	147	197	432	35,6
CK1-270/27, CKE1-270/27	3,0	1042	610	147 / 270	197	432	35,8 / 48

La cota sumergible máxima es de 772 m/m
The maximun immersion depth is 772 m/m.

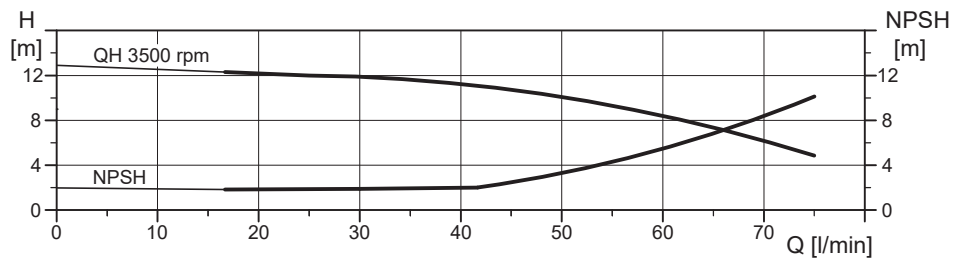
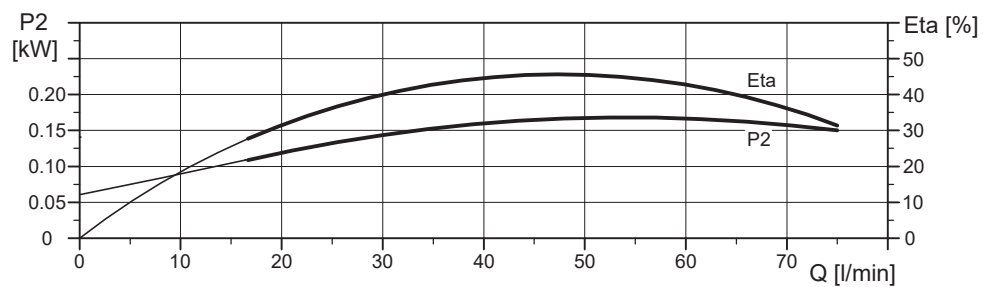
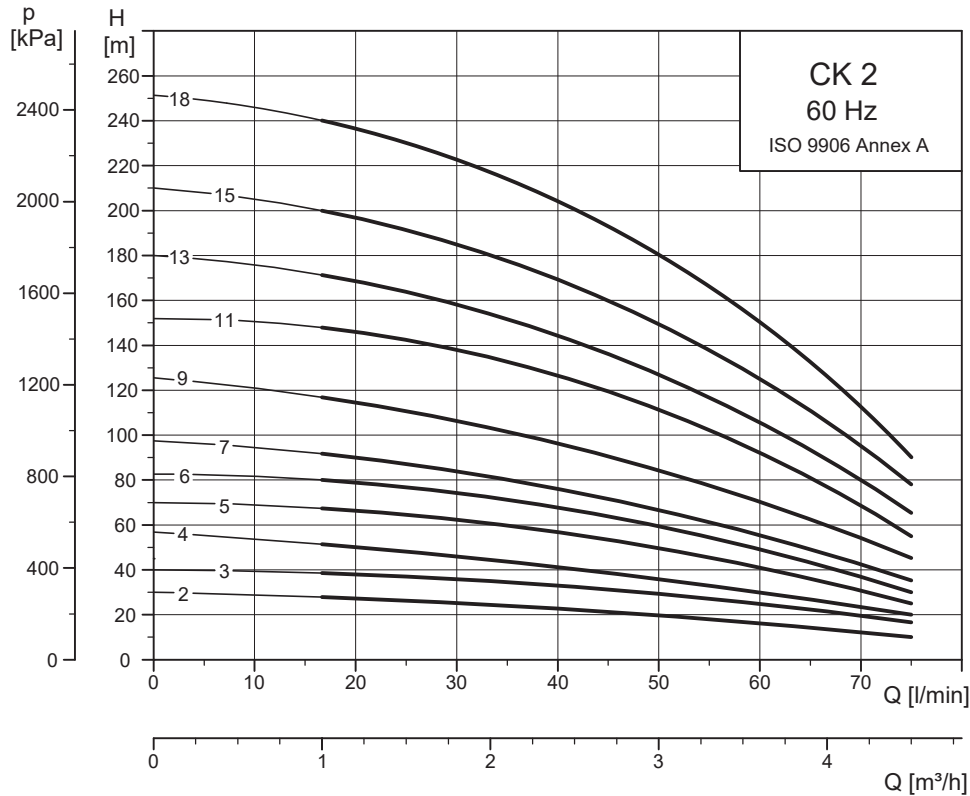


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 2
60 Hz

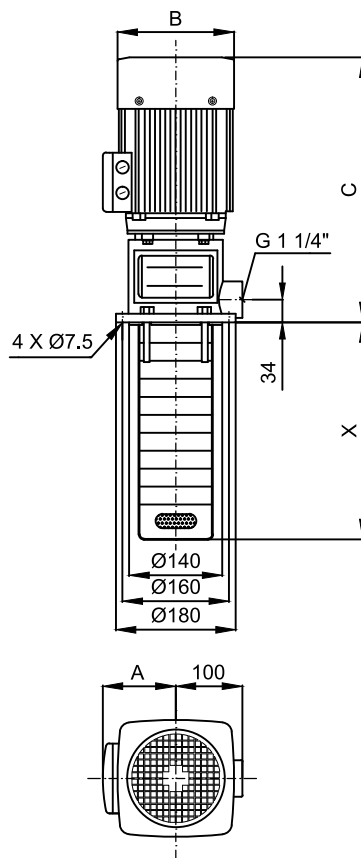


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 2**
60 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK2-20/2	0,55	438	123	117	148	315	15
CK2-30/3	0,75	499	141	142	170	358	18
CK2-40/4	1,1	517	159	142	170	358	20
CK2-50/5	1,1	535	177	142	170	358	20
CK2-60/6	1,1	553	195	142	170	358	22
CK2-70/7, CKE2-70/7	1,5	626	213	155 / 205	190	413	27 / 31
CK2-90/9	2,2	662	249	155	190	413	31
CK2-110/11	2,2	698	285	155	190	413	31
CK2-130/13, CKE2-130/13	3,0	769	321	165 / 270	197	448	37 / 45
CK2-150/15	3,0	805	357	165	197	448	37
CK2-180/18, CKE2-180/18	4,0	879	411	185 / 270	230	468	42 / 50

La cota sumergible máxima es de 735 m/m
The maximum immersion depth is 735 m/m.

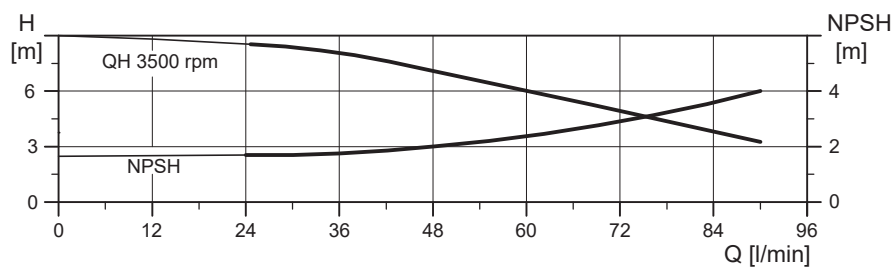
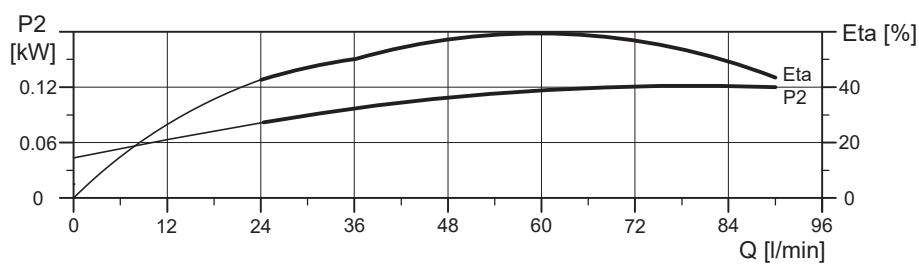
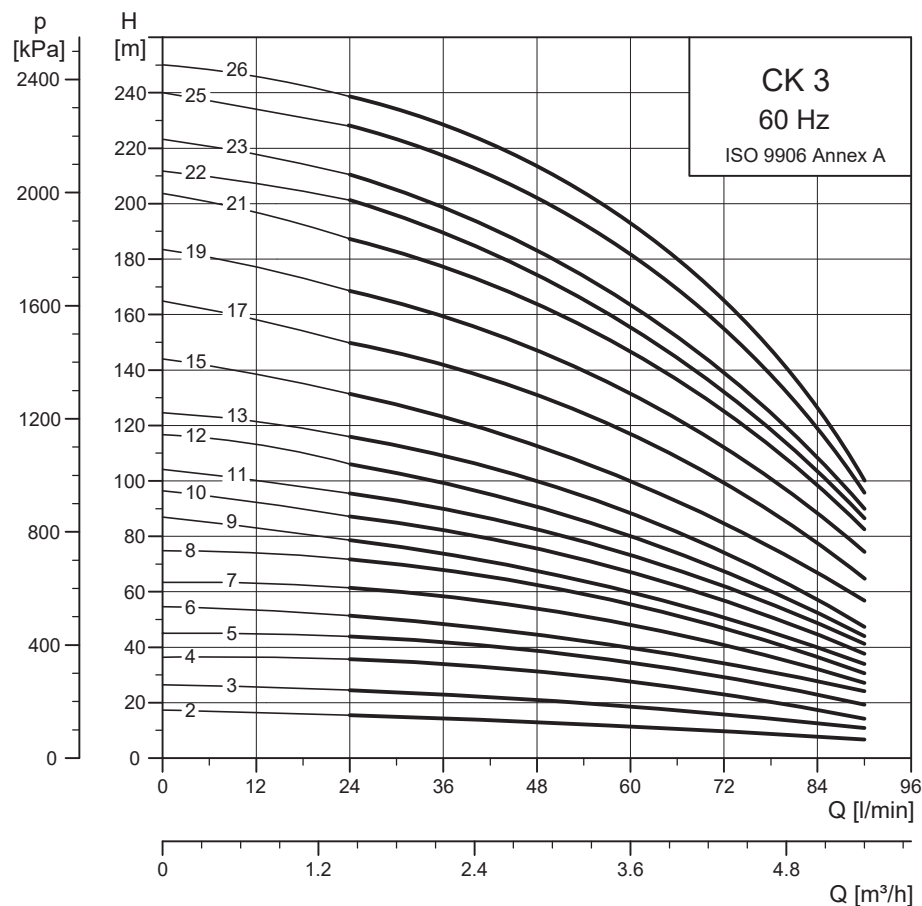


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 3
60 Hz

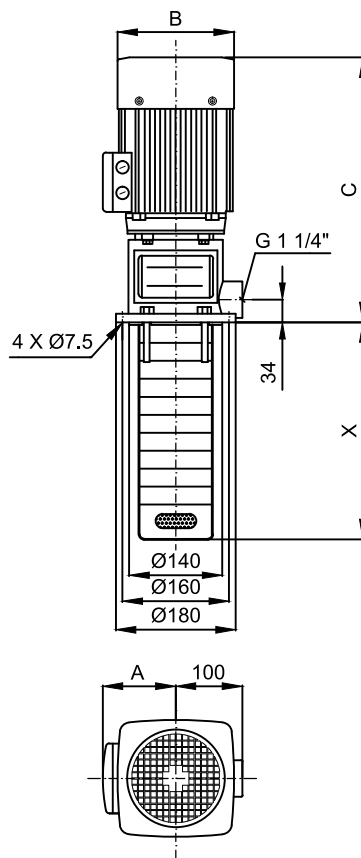


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 3**
60 Hz

Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK3-20/2	0,37	465	160	115	141	305	12,1
CK3-30/3	0,55	483	178	115	141	305	12,8
CK3-40/4	0,55	501	196	115	141	305	13,0
CK3-50/5	0,75	559	214	115	141	345	14,8
CK3-60/6	1,1	577	232	115	141	345	16,1
CK3-70/7	1,1	595	250	115	141	345	16,4
CK3-80/8	1,1	613	268	115	141	345	16,6
CK3-90/9	1,5	687	286	141	177	401	24,4
CK3-100/10	1,5	705	304	141	177	401	24,7
CK3-110/11, CKE3-110/11	1,5	723	322	141 / 205	177	401	24,9 / 35,9
CK3-120/12	2,2	741	340	141	177	401	27,5
CK3-130/13	2,2	759	358	141	177	401	27,8
CK3-150/15	2,2	795	394	141	177	401	28,2
CK3-170/17, CKE3-170/17	2,2	831	430	141 / 205	177	401	28,3 / 36,0
CK3-190/19	3,0	898	466	147	197	432	34,6
CK3-210/21, CKE3-210/21	3,0	934	502	147 / 270	197	432	35,0 / 44,0
CK3-220/22	3,0	952	520	147	197	432	35,3
CK3-230/23	3,0	970	538	147	197	432	35,5
CK3-250/25, CKE3-250/25	4,0	1016	574	161 / 270	220	442	42,4 / 52,0
CK3-260/26, CKE3-260/26	4,0	1034	592	161 / 270	220	442	42,7 / 52,0

La cota sumergible máxima es de 772 m/m
The maximum immersion depth is 772 m/m.

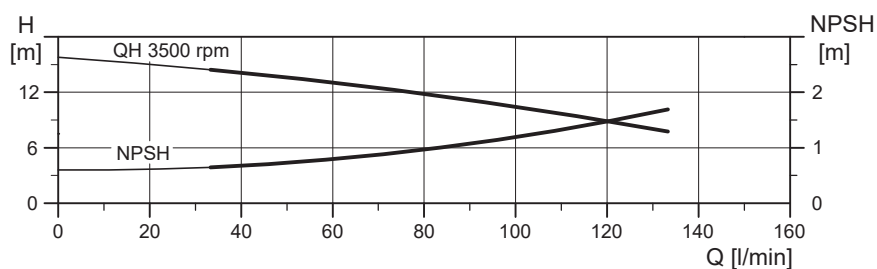
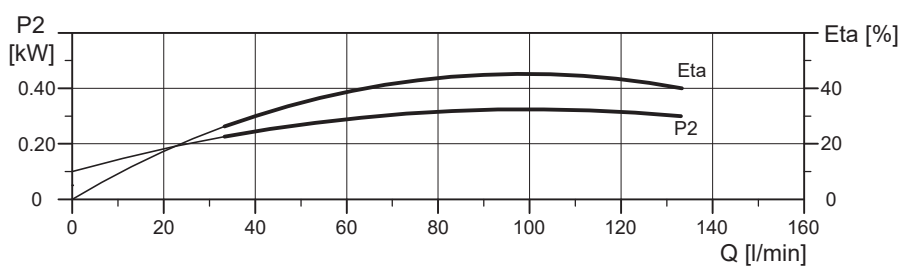
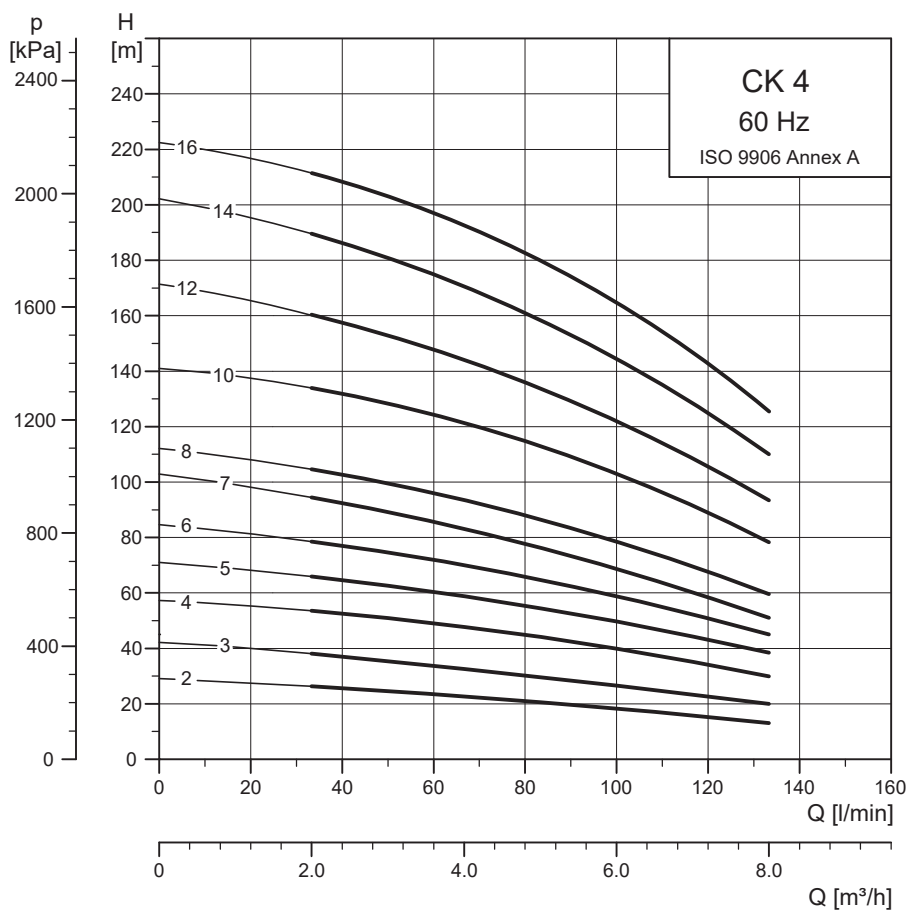


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 4
60 Hz

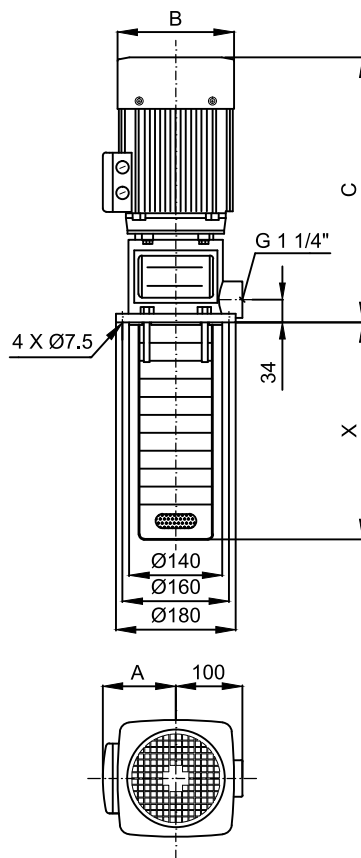


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BOMBAS
CENTRIFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 4**
60 Hz

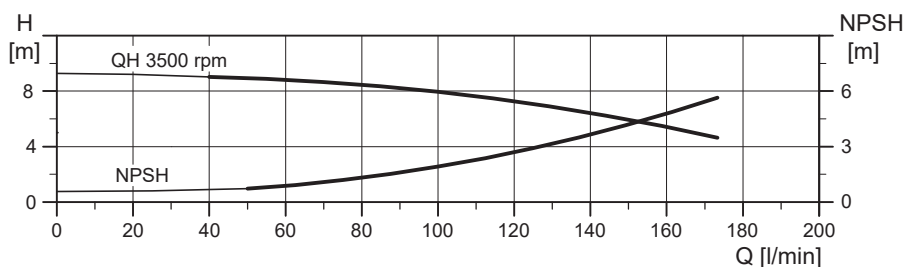
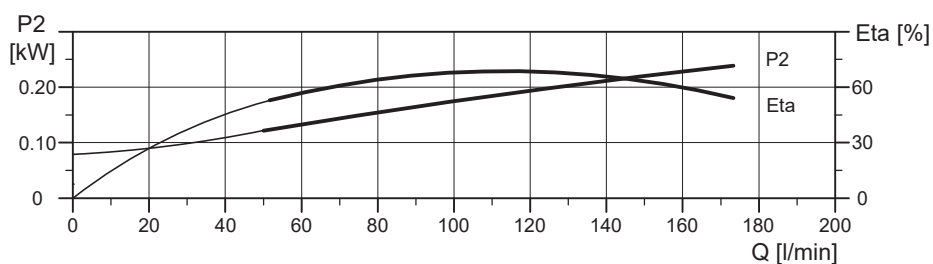
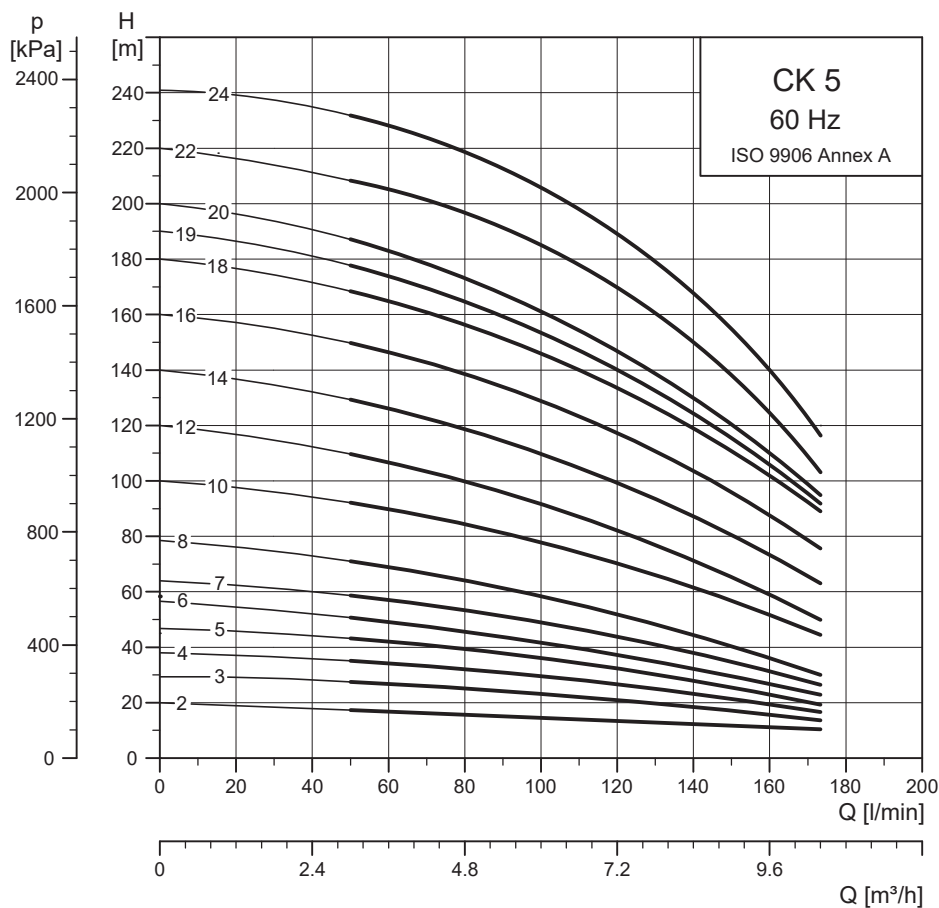
Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK4-20/2	0,75	506	148	142	170	358	15
CK4-30/3	1,1	533	175	142	170	358	18
CK4-40/4, CKE4-40/4	1,5	615	202	155 / 205	190	413	23 / 27
CK4-50/5	2,2	642	229	155	190	413	27
CK4-60/6	2,2	669	256	155	190	413	27
CK4-70/7	3,0	731	283	165	197	448	33
CK4-80/8, CKE4-80/8	3,0	758	310	165 / 270	197	448	33 / 41
CK4-100/10	4,0	832	364	185	230	468	38
CLDK4-120/12, CKE4-120/12	4,0	886	418	185 / 270	230	468	38 / 46
CK4-140/14	5,5	1055	472	210	260	583	63
CLDK4-160/16, CKE4-160/16	5,5	1109	526	210 / 280	260	583	65 / 73

La cota sumergible máxima es de 688 m/m
The maximun inmersión depth is 688 m/m.

CURVAS DE PRESTACIONES PERFORMANCE CURVES

CK, CKE 5
60 Hz



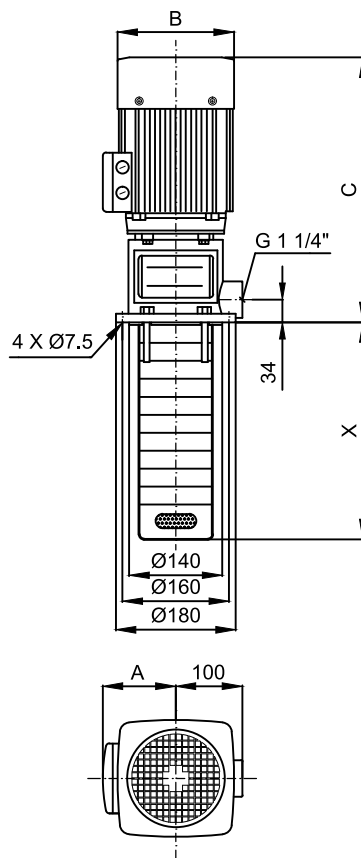


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 5**
60 Hz

Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK5-20/2	0,55	474	169	115	141	305	12,7
CK5-30/3	1,1	541	196	115	141	345	15,7
CK5-40/4	1,1	568	223	115	141	345	16,1
CK5-50/5, CKE5-50/5	1,5	651	250	141 / 205	177	401	24,1 / 28,0
CK5-60/6	2,2	678	277	141	177	401	26,8
CK5-70/7	2,2	705	304	141	177	401	27,2
CK5-80/8, CKE5-80/8	2,2	732	331	141 / 205	177	401	27,6 / 31,0
CK5-100-10, CKE5-100/10	3,0	816	385	147 / 270	197	431	34,3 / 42,0
CK5-120/12	3,0	870	439	147	197	431	34,7
CK5-140/14	4,0	934	493	161	220	441	41,5
CK5-160/16, CKE5-160/16	4,0	988	547	161 / 270	220	441	41,9 / 49,0
CK5-180/18	5,5	1107	601	197	235	506	65,1
CK5-190/19	5,5	1134	628	197	235	506	65,5
CK5-220/20,	5,5	1161	655	197	235	506	65,9
CK5-220/22, CKE5-220/22	5,5	1215	709	197 / 280	235	506	66,6 / 74,0
CK5-240/24, CKE5-240/24	7,5	1305	763	197 / 280	235	542	75,7 / 83,0

La cota sumergible máxima es de 979 m/m
The maximun immersion depth is 979 m/m.

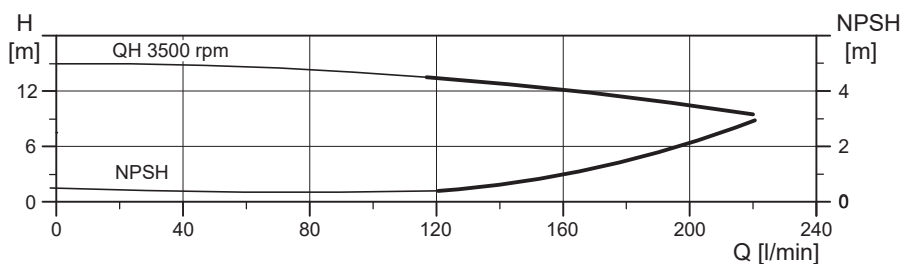
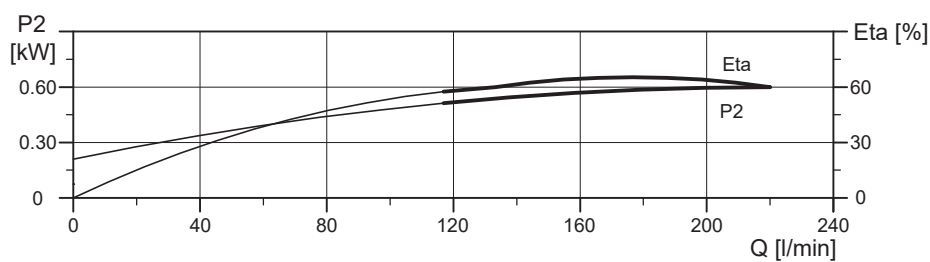
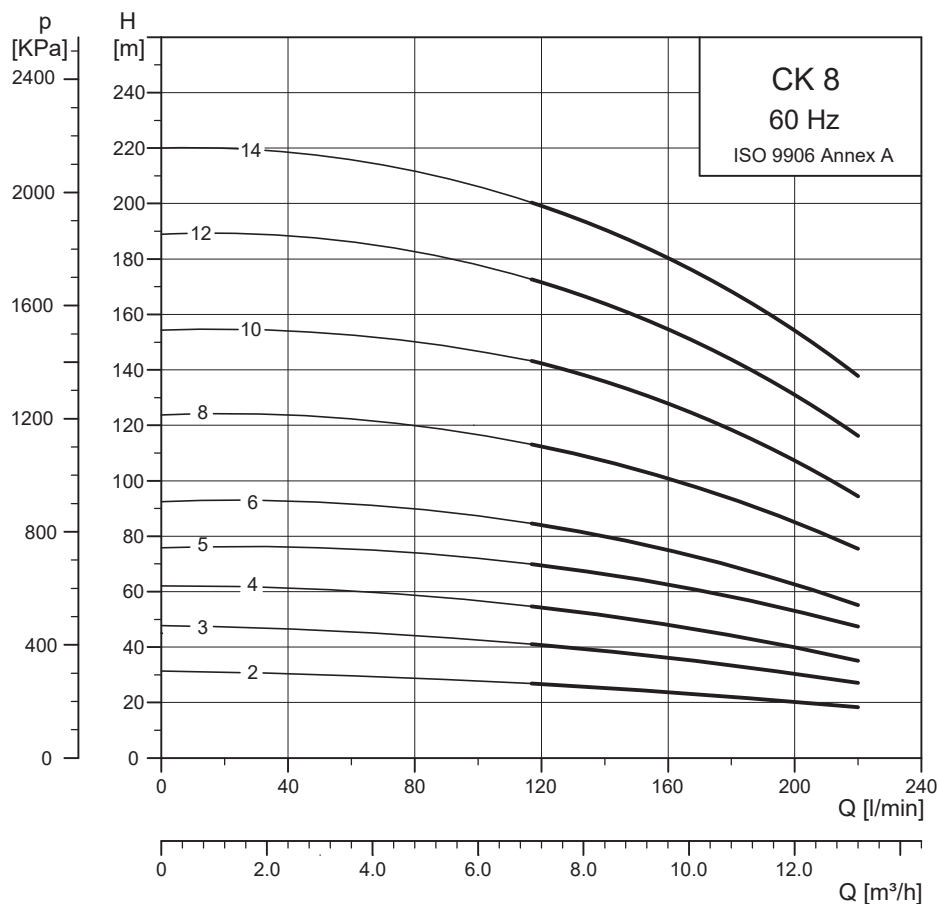


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 8
60 Hz

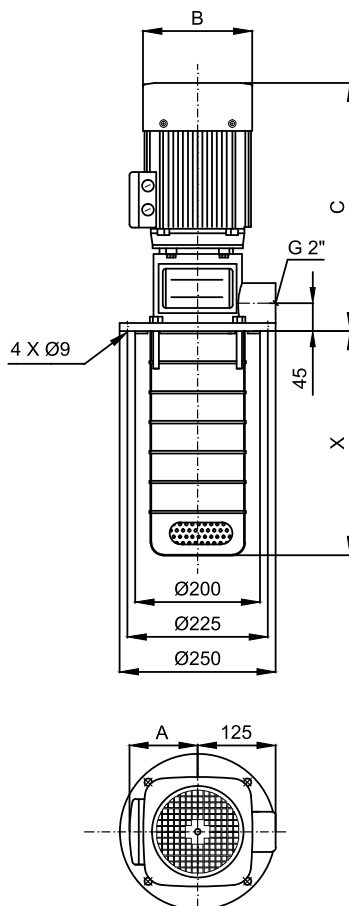


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 8**
60 Hz

Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK8-20/2	1,5	569	150	155	190	419	32
CK8-30/3	2,2	599	180	155	190	419	37
CK8-40/4, CKE8-40/4	3,0	664	210	165 / 270	197	454	45 / 53
CK8-50/5	3,0	694	240	165	197	454	47
CK8-60/6	4.0	744	270	185	230	474	52
CK8-80/8, CKE8-80/8	5,5	919	330	210 / 280	260	589	72 / 80
CK8-100/10	7,5	979	390	210	260	589	78
CK8-120/12, CKE8-120/12	7,5	1039	450	210 / 280	260	589	80 / 88
CK8-140/14, CKE8-140/14	11	1200	510	255 / 310	330	690	135 / 143

La cota sumergible máxima es de 855 m/m
The maximum immersion depth is 855 m/m.

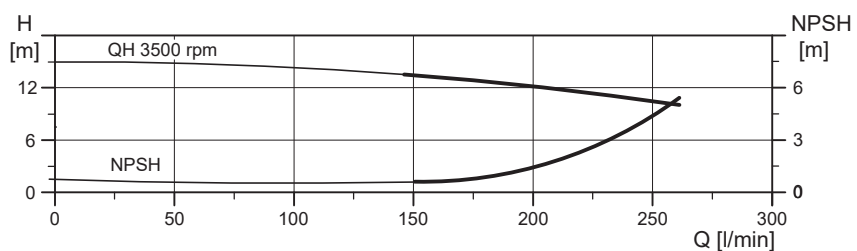
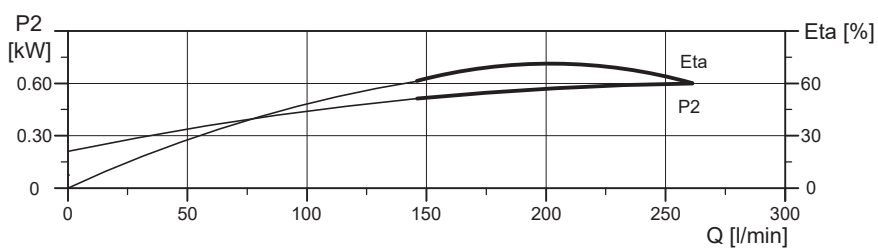
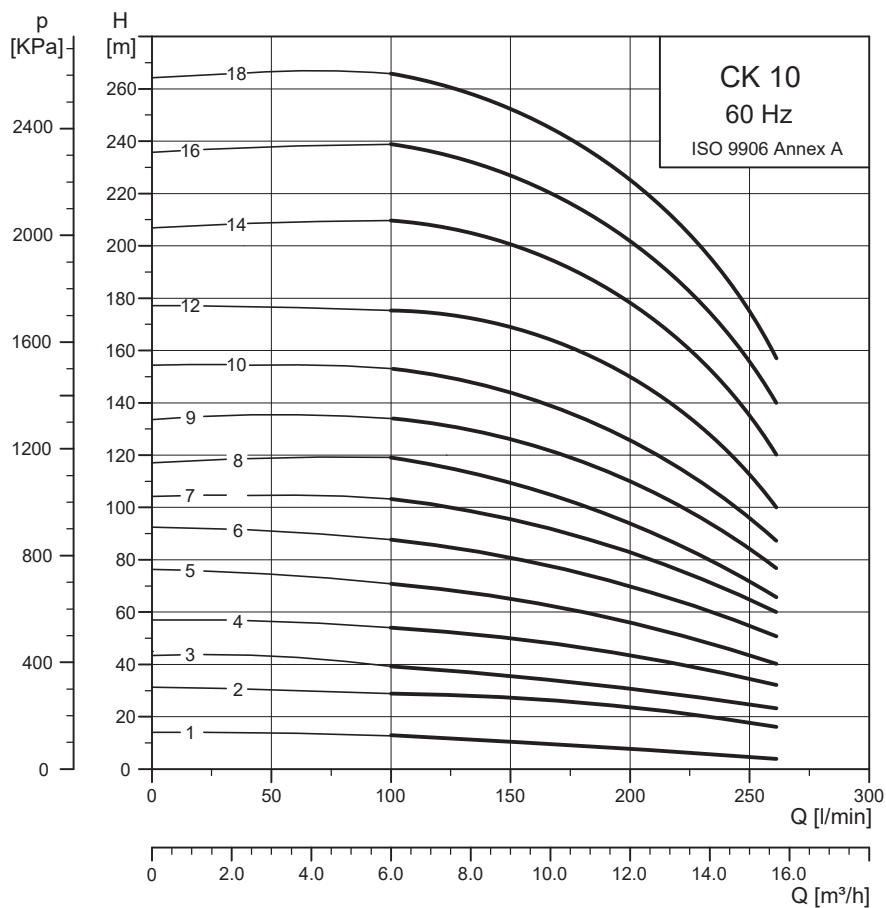


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 10
60 Hz

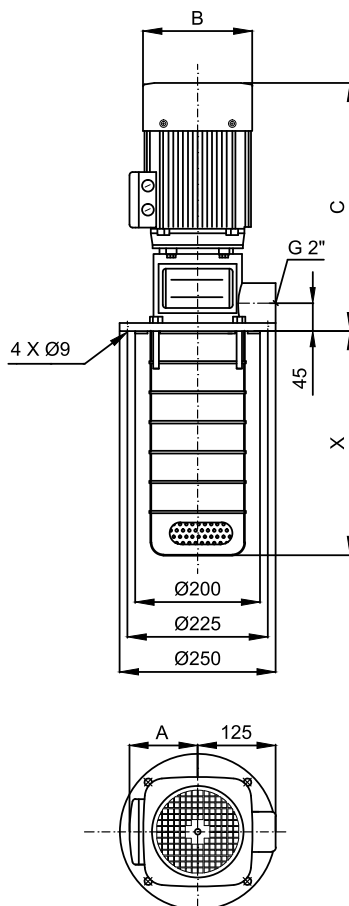


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRIFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 10**
60 Hz

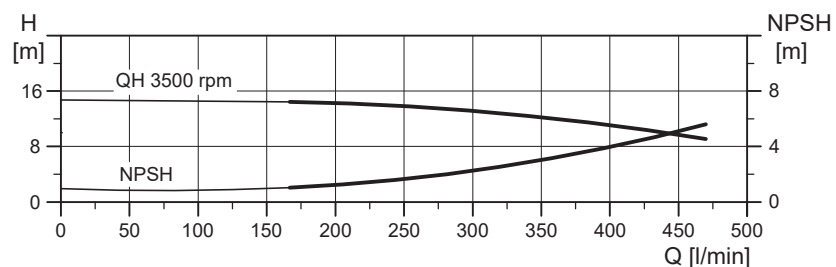
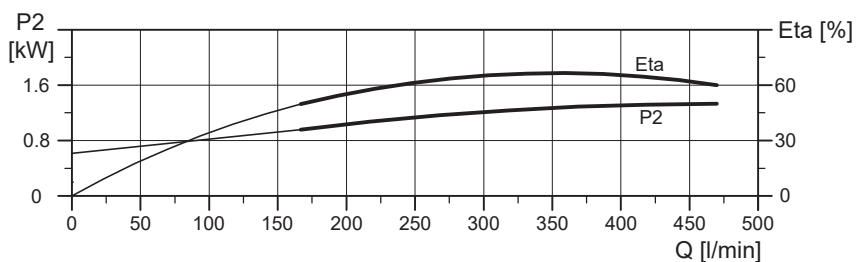
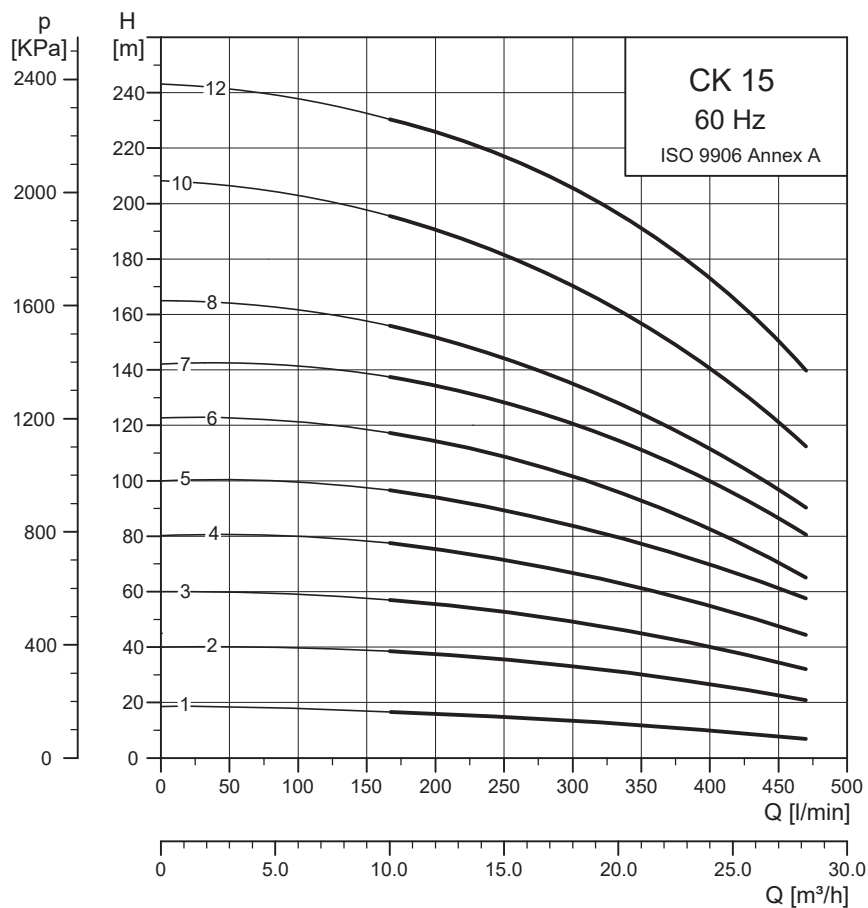
Dimensiones y pesos / Dimensions and weights

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK10-20/1	0,75	523	148	115	141	375	21,7
CK10-20/2	1,5	579	148	141	177	431	30,7
CK10-30/3	2,2	609	178	141	177	431	33,6
CK10-40/4	3	665	208	147	197	457	40,3
CK10-50/5, CKE10-50/5	3	695	238	147/205	197	457	41,1 / 45
CK10-60/6	4	735	268	161	220	467	48,3
CK10-70/7	5,5	831	298	197	235	533	65,5
CK10-80/8, CKE10-80/8	5,5	861	328	197/280	235	533	74,4/ 79,0
CK10-90/9	5,5	891	358	197	235	533	75,2
CK10-100-10, CKE10-100/10	7,5	957	388	197 / 280	235	569	84,4 /89,0
CK10-120/12	7,5	1017	448	197	235	569	85,5
CK10-140/14	11,0	1213	508	245	318	705	117,4
CK10-160/16, CKE10-160/16	11,0	1273	568	245/280	318	705	118,9 /123,0
CK10-180/18	11,0	1333	628	245	318	705	120,4
CK10-200/18	11,0	1393	688	245	318	705	121,2
CK10-220/18, CKE10-220/18	11,0	1453	748	245/280	318	705	122,0 /127,0

La cota sumergible máxima es de 853 m/m
The maximun immersion depth is 853 m/m.

CURVAS DE PRESTACIONES PERFORMANCE CURVES

CK, CKE 15
60 Hz



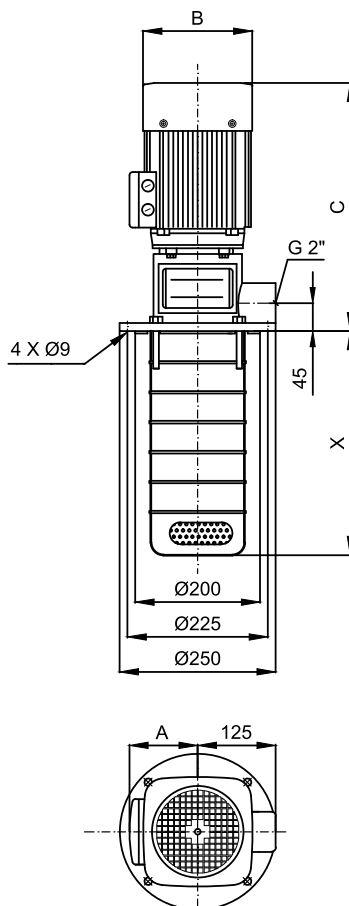


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BOMBAS
CENTRÍFUGAS
VERTICALESCENTRÍFUGAL
VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 15**
60 Hz

Dimensiones y pesos / Dimensions and weights

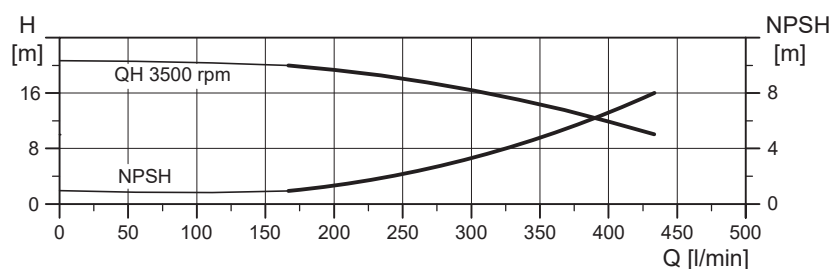
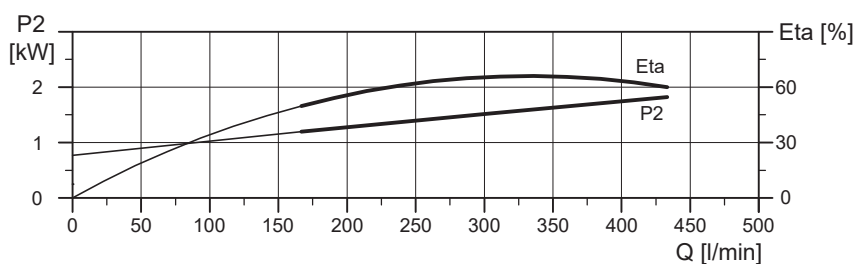
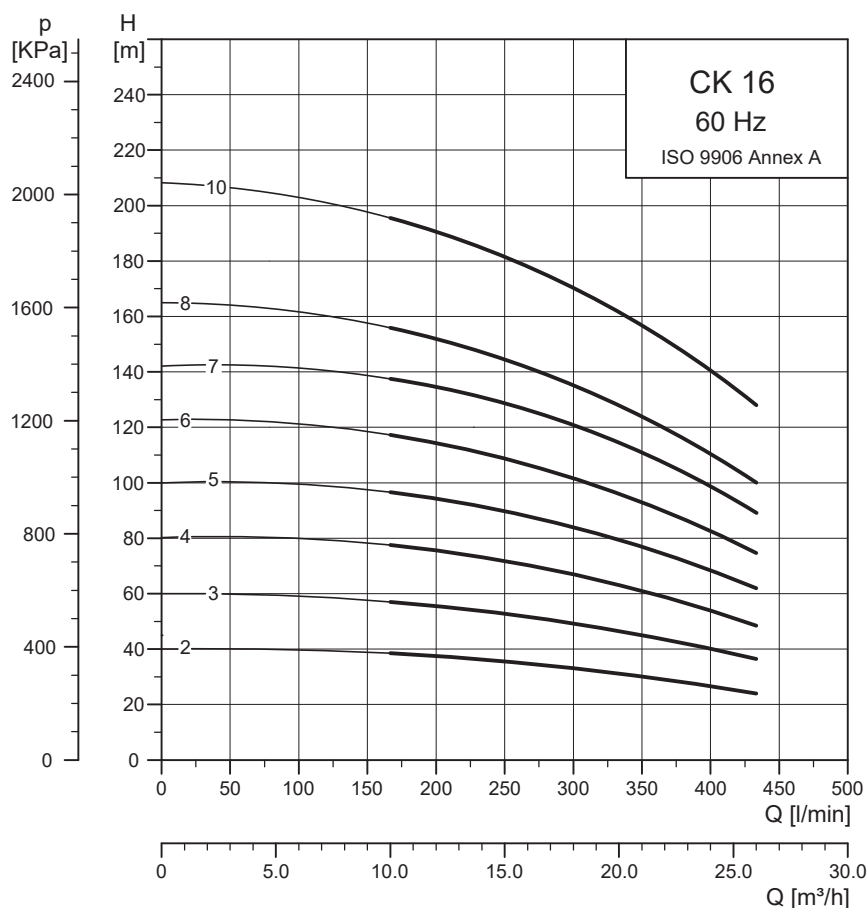
Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK15-20/1	1,5	609	178	141	177	431	31,5
CK15-20/2, CKE15-20/2	3,0	635	178	147/205	197	457	36,2 / 41,0
CK15-30/3	4,0	690	223	161	220	467	47,2
CK15-40/4	5,5	801	268	197	235	533	72,8
CK15-50/5, CKE15-50/5	7,5	882	313	197/280	235	569	82,2 / 86,0
CK15-60/6	11,0	1063	358	245	318	705	113,3
CK15-70/7	11,0	1108	403	245	318	705	114,3
CK15-80/8, CKE15-80/8	11,0	1153	448	245/310	318	705	115,3/ 120,0
CK15-100-10	15,0	1248	538	245	318	710	127,8
CK15-120/12	18,5	1378	628	245	318	750	158,7
CK15-140/12	18,5	1468	718	245	318	750	159,8
CK15-160/12	18,5	1558	808	245	318	750	161,0
CK15-170/12	18,5	1603	853	245	318	750	161,6

La cota sumergible máxima es de 853 m/m
The maximum immersion depth is 853 m/m.

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 16
60 Hz



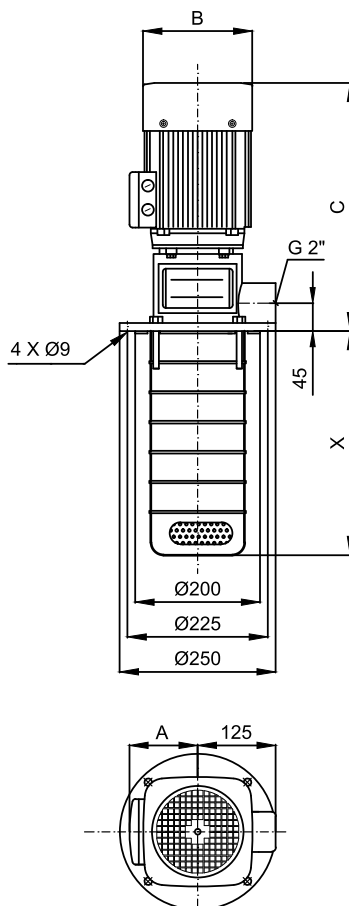


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CENTRÍFUGAS
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VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 16**
60 Hz

Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK16-20/2, CKE16-20/2	4,0	654	180	185 / 270	230	474	50 / 58
CK16-30/3	5,5	814	225	210	260	589	65
CK16-40/4, CKE16-40/4	7,5	859	270	210 / 280	260	589	75 / 83
CK16-50/5	11	1005	315	255	330	690	130
CK16-60/6, CK16-60/6	11	1050	360	255 / 310	330	690	132 / 140
CK16-70/7	15	1095	405	255	330	690	140
CK16-80/8	15	1140	450	255	330	690	140
CK16-100/10	18,5	1290	540	255	330	750	150

La cota sumergible máxima es de 855 m/m
The maximum immersion depth is 855 m/m.

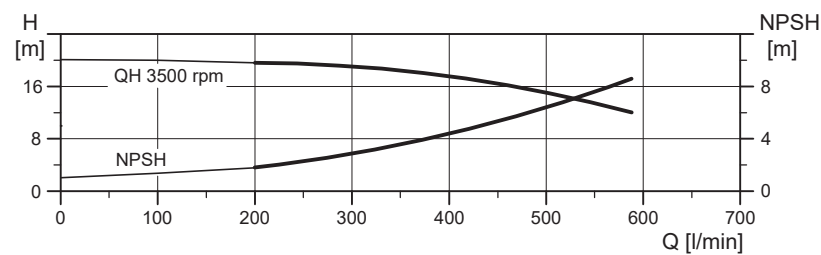
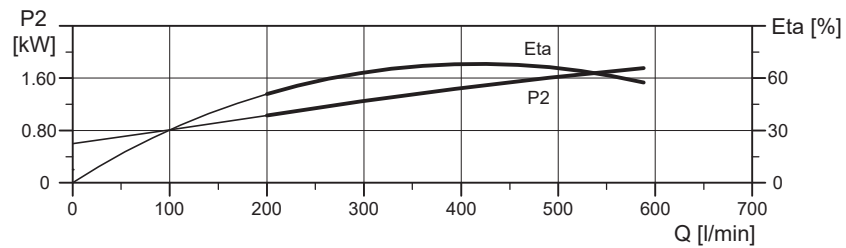
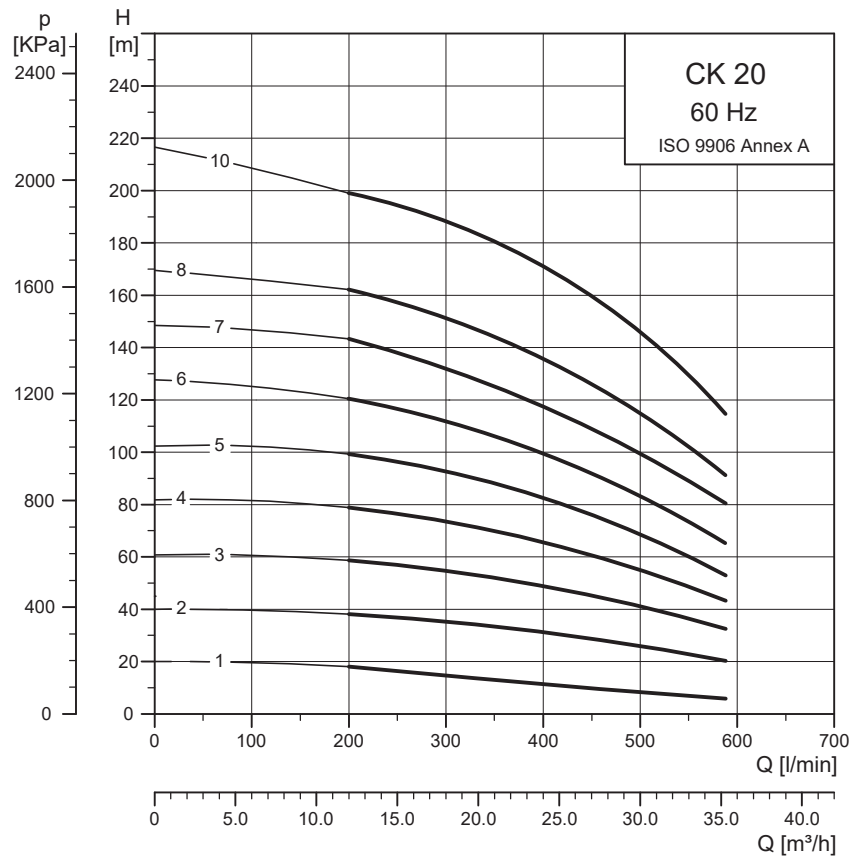


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VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

CURVAS DE PRESTACIONES

PERFORMANCE CURVES

CK, CKE 20
60 Hz

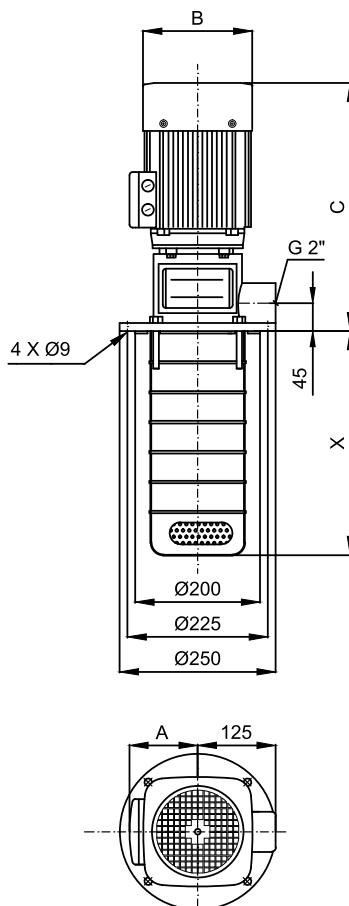


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VERTICAL
PUMPSHL, T, TCP,
IDL, ORK,
CK, CKE

DATOS TÉCNICOS

TECHNICAL DATA

ESQUEMA
DIMENSIONALINSTALLATION
SKETCHES**CK, CKE 20**
60 Hz

Dimensiones y pesos / *Dimensions and weights*

Pump Type	Motor P1 [kW]	Dimensions [mm]					Weight [kg]
		X+C	X	A	B	C	
CK20-20/1	2,2	609	178	141	177	431	33,9
CK20-20/2, CKE20-20/2	4,0	645	178	161/270	220	467	46,3 /51,0
CK20-30/3	5,5	756	223	197	235	533	71,8
CK20-40/4	7,5	837	268	197	235	569	81,2
CK20-50/5, CKE20-50/5	11,0	1018	313	245/310	318	705	112,3 /117
CK20-60/6	11,0	1063	358	245	318	705	113,3
CK20-70/7	15,0	1113	403	245	318	710	124,9
CK20-80/8	15,0	1158	448	245	318	710	125,9
CK20-100/10	18,5	1288	538	245	318	750	156,7
CK20-120/10	18,5	1378	628	245	318	750	157,8
CK20-140/10	18,5	1468	718	245	318	750	159,0
CK20-160/10	18,5	1558	808	245	318	750	160,1
CK20-170/10	18,5	1603	853	245	318	750	160,7

La cota sumergible máxima es de 853 m/m
The maximun immersion depth is 853 m/m.