



Serie • Series

# BOB

**BOMBAS CENTRÍFUGAS HORIZONTALES SERIE BOB**

**CENTRIFUGAL HORIZONTAL PUMPS BOB SERIES**

**POMPES CENTRIFUGES HORIZONTALES SERIE BOB**



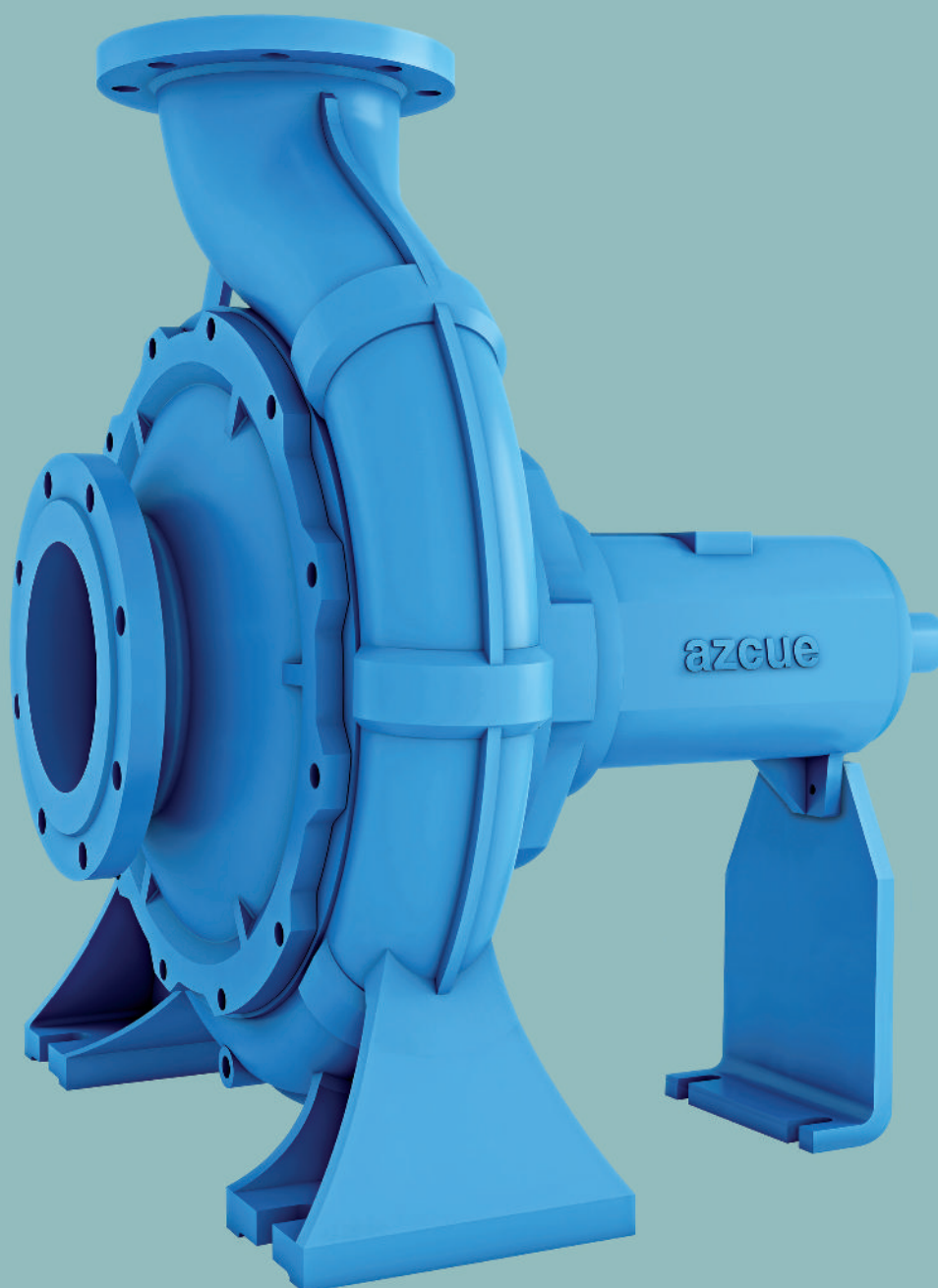
pumps

pumpen

# azcue

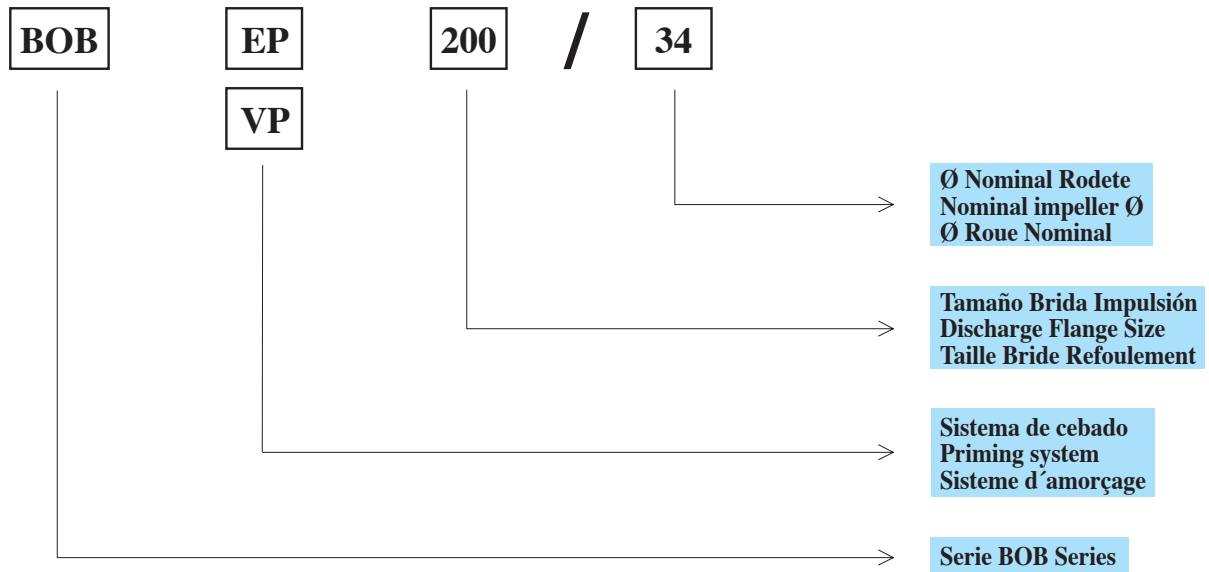
bombas

pompes





## Nomenclatura / Description / Denomination



## Materiales / Materials / Materiaux

Voluta Volute casing	Bronce / Bronze	Cast iron / Hierro fundido
Rodete Impeller	Bronce / Bronze	Bronce / Bronze
Tapa del cuerpo Casing cover	Bronce / Bronze	Cast iron / Hierro fundido
Eje Shaft	Acero inoxidable / Stainless steel	

\* Otros materiales: bajo demanda / \* Other materials: under request / \* Autres materiaux: sur demande.

### Diseño:

- Bomba centrífuga horizontal con soporte de rodamientos robustos.
- Montaje con acoplamiento flexible.
- Bomba con alto rendimiento y bajo NPSH, que hace que la bomba tenga una gran capacidad de aspiración.
- Cuando por necesidades de instalación se requiera que la bomba sea autoaspirante, se monta una electrobomba de vacío que realiza dicha función.

### Design:

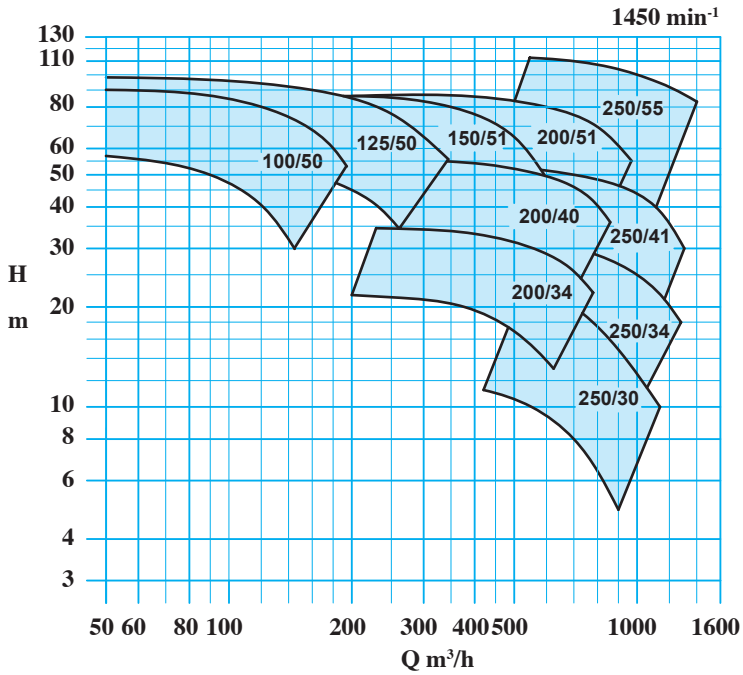
- Horizontal zentrifugal pump with robust bearings brachet.
- Construction with flexible coupling.
- Pump with high efficiency and low NPSH, consequently the pump has a great suction capacity.
- When it is needed the pump to be selfpriming a vacuum electropump, assembled to the main pump makes such function.

### Design:

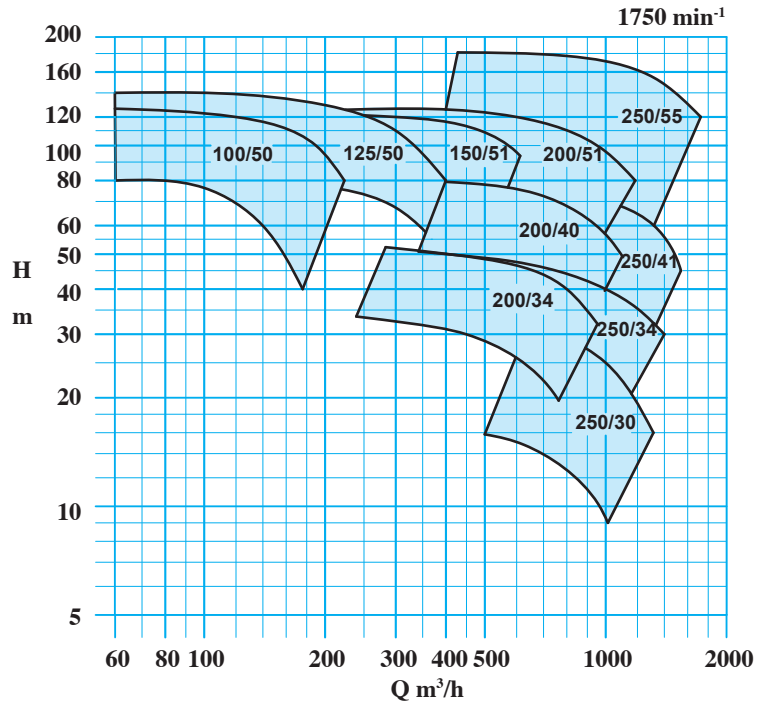
- Pompe centrifuge horizontale avec robuste support à roulements.
- Montage avec accouplement flexible.
- Pompe avec un haut rendement et bas NPSH, qui fait a la pompe avoir une grande capacité d'aspiration.
- Quand per besoins d'installation faut que la pompe soit autoamorçante, une electropompe a vide fait cette fonction.



50 Hz

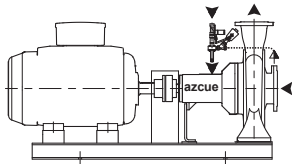


60 Hz

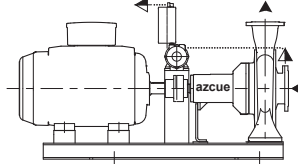


Ejecuciones / Execution

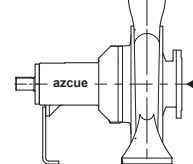
BOB-VP



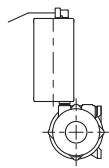
BOB-EP



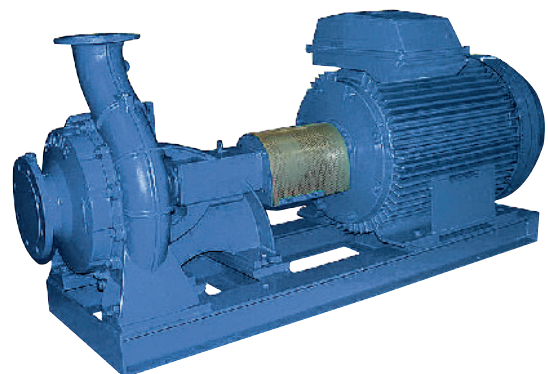
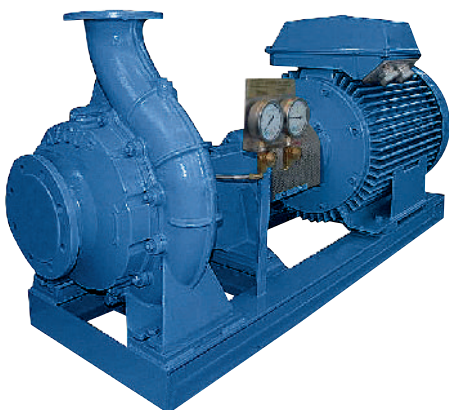
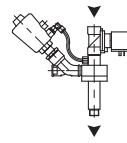
BOB



BOMBA DE CEBADO  
PRIMING PUMP EP



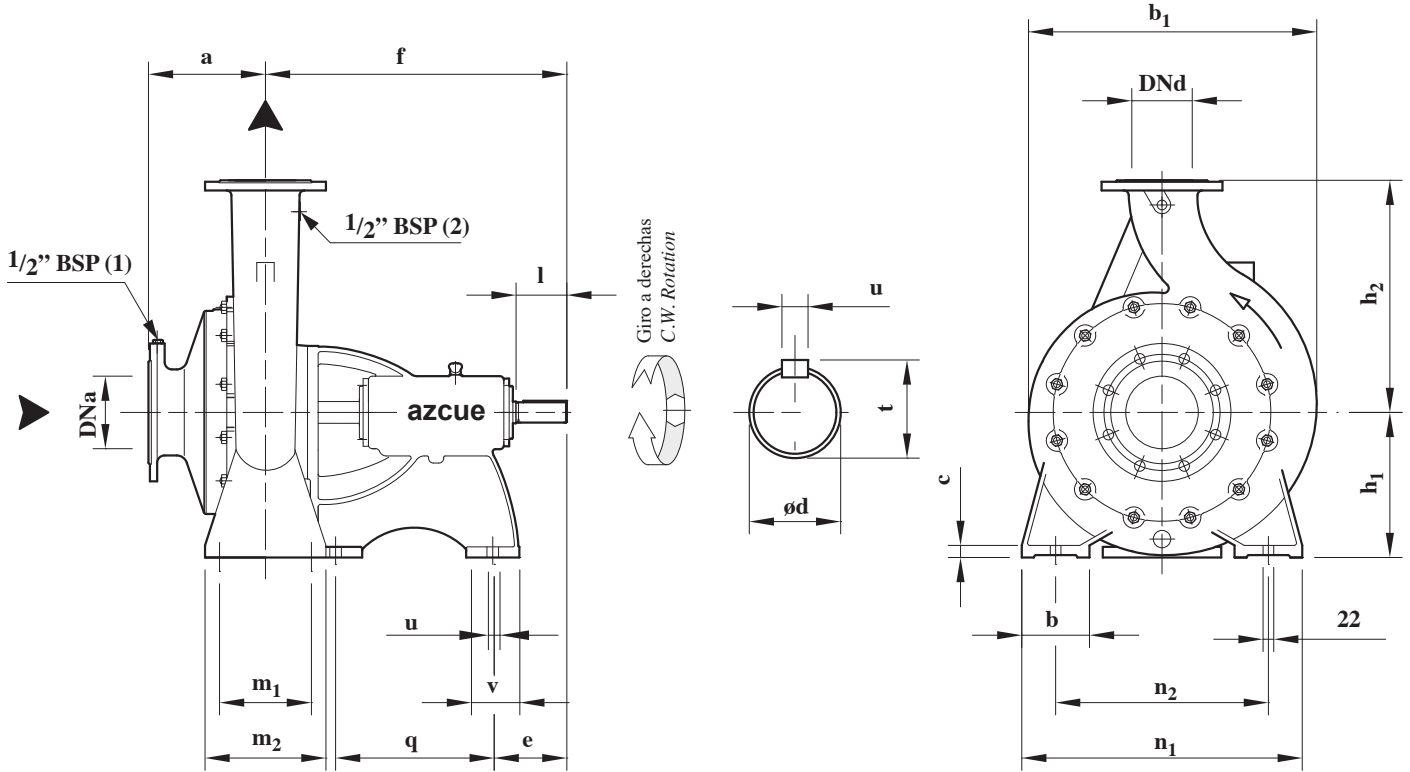
VP EYECTOR  
EJECTOR





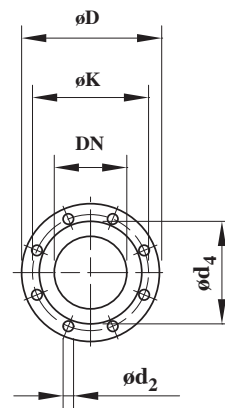
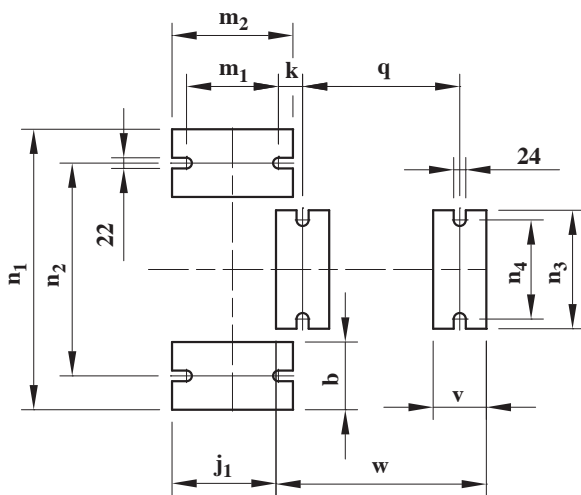
# Serie BOB 2 rodetes / BOB Series 2 impeller

## Eje libre / Bare shaft / Arbre nu



(1) Conexión vacuómetro.  
Vacuometer connection.

(2) Conexión manómetro.  
Manometer connection.



EN1092, Pn10			
Dna / Dnd	100	125	150
d <sub>4</sub>	158	188	212
K	180	210	240
D	220	250	285
Nº	8	8	8
d <sub>2</sub>	18	18	22

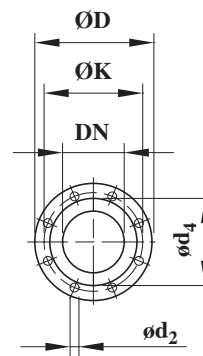
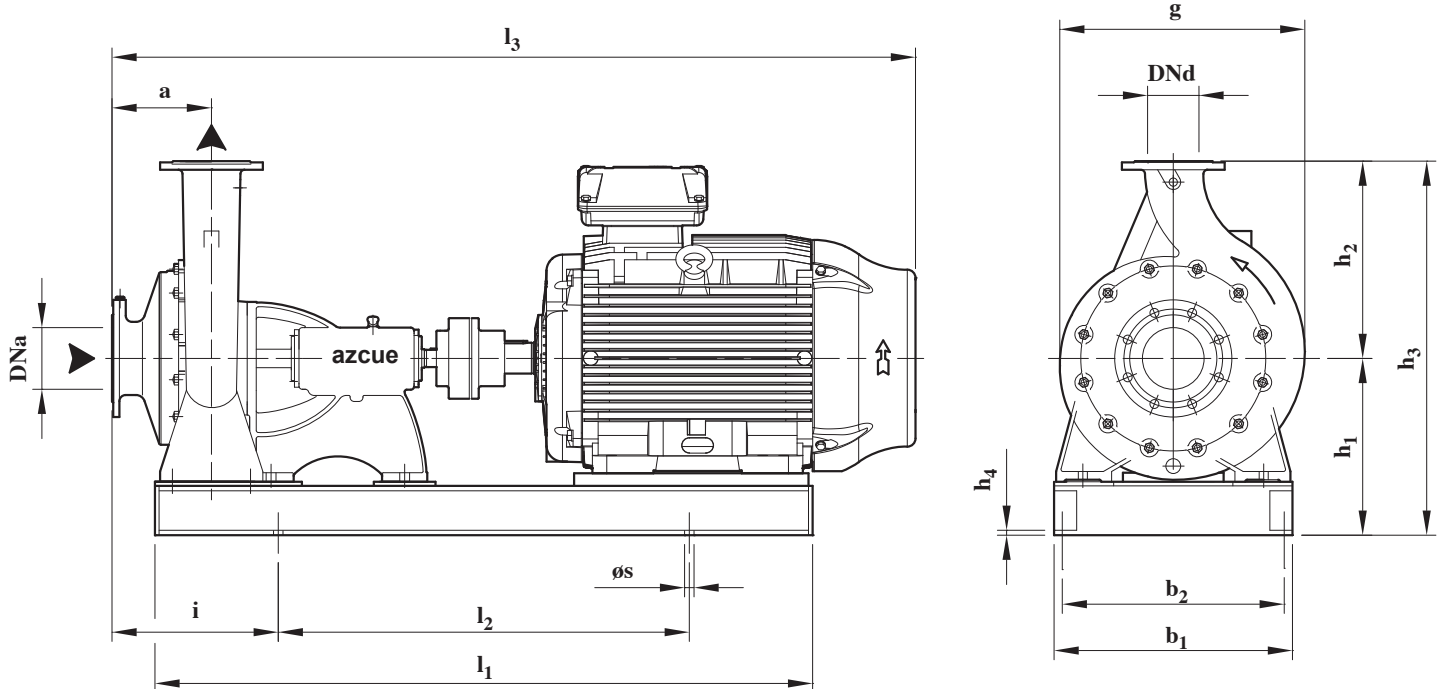
Tipo / Type	DNa	DNd	a	f	h <sub>1</sub>	h <sub>2</sub>	b	b <sub>1</sub>	c	e	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	n <sub>3</sub>	n <sub>4</sub>	j <sub>1</sub>	w	q	v	k	d	l	t	u	kg
100-50	125	100	235	618	300	400	140	540	25	150	190	250	580	450	245	205	220	435	325	110	55	42	105	45,1	12	190
125/50	150	125	242	625	300	480	140	595	25	150	190	250	580	440	245	205	215	435	325	110	50	42	105	45,1	12	280



## Serie BOB / BOB Series

Montaje sobre bancada / Base plate assembly / Montage sur socle

1450/1750 r.p.m.



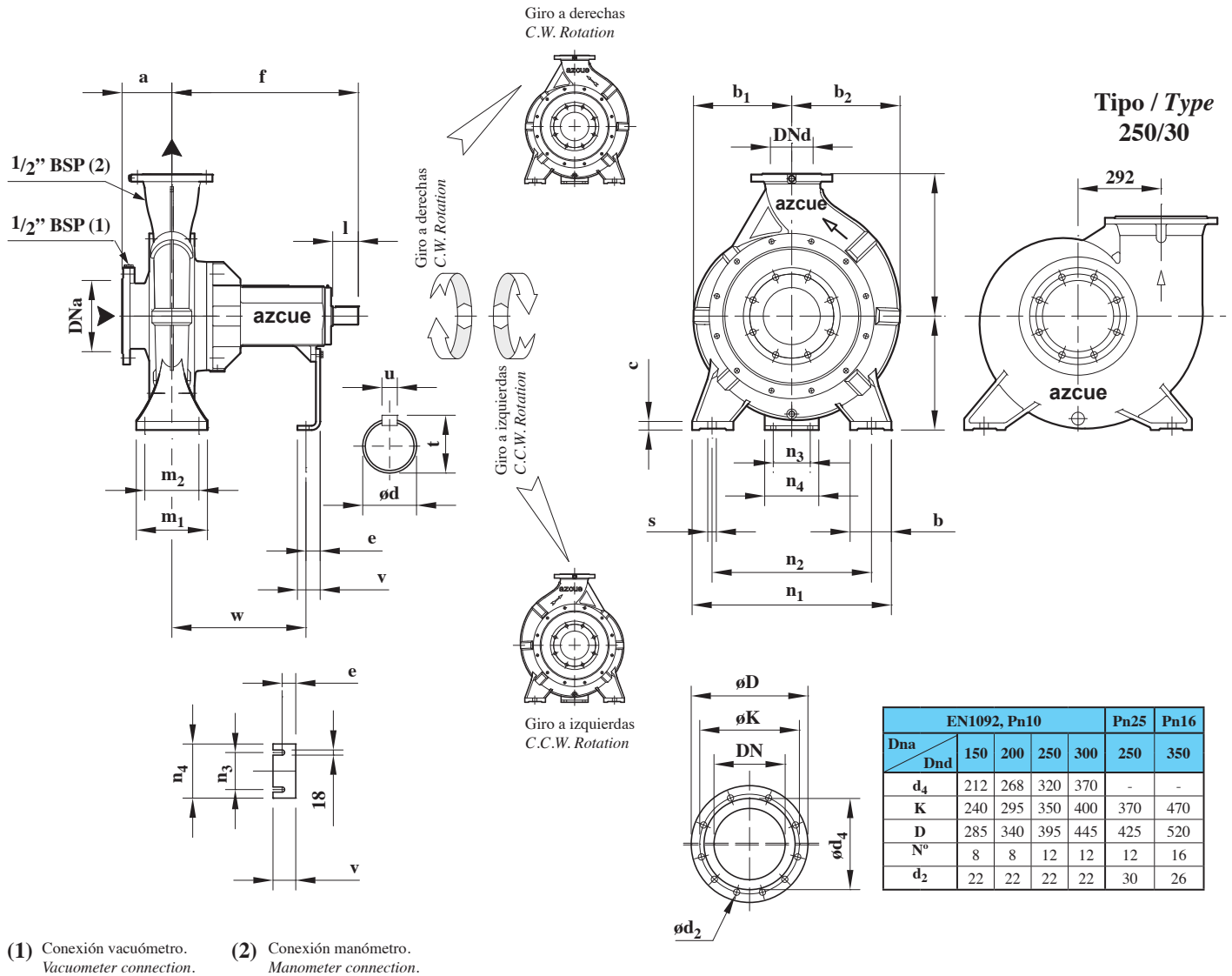
EN1092, Pn10			
Dna	DNd		
	100	125	150
d <sub>4</sub>	158	188	212
K	180	210	240
D	220	250	285
N°	8	8	8
d <sub>2</sub>	18	18	22

Tipo Type	Motor		DNa	DNd	a	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	s	b <sub>1</sub>	b <sub>2</sub>	g	i	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	kg.		
	KW	Type																		
100-50	30	200L-4	125	100	235	410	400	810	10	20	580	540	540	350	1400	900	1640	560		
	37	225S-4															650			
	45	225M-4															1720	680		
	55	250M-4															1500	900	1835	835
	75	280SM-4															1600	1000	1940	1080
125-50	37	225S-4	150	125	242	430	480	910	12	23	580	540	595	405	1500	900	1735	740		
	45	225M-4															770			
	55	250M-4															1850	925		
	75	280SM-4															1600	1000	1955	1170
	90	280SM-4															1240			
	110	315SM-4															1460			
	132	315SM-4															445	480	925	12



# Serie BOB / BOB Series

## Eje libre / Bare shaft / Arbre nu



Tipo Type	DNa	DNd	a	f	h <sub>1</sub>	h <sub>2</sub>	b	b <sub>1</sub>	b <sub>2</sub>	c	e	m <sub>1</sub>	m <sub>2</sub>	n <sub>1</sub>	n <sub>2</sub>	n <sub>3</sub>	n <sub>4</sub>	w	v	s	d	l	t	u	kg
150-51	200	150	175	655	400	500	145	345	380	30	48	250	190	700	560	130	190	473	80	30	60	90	64,2	18	390
200-34	250	200	175	658	400	475	145	264	336	30	48	250	190	700	560	130	190	474	80	30	60	90	64,2	18	300
200-40	250	200	180	660	400	525	145	300	380	30	48	250	190	700	560	130	190	489	80	30	60	90	64,2	18	350
200-51	250	200	174	665	400	575	145	345	401	30	48	250	190	800	660	130	190	483	80	30	60	90	64,2	18	420
250-30	250	250	220	658	400	350	145	345	-	30	48	250	190	800	660	130	190	476	80	30	60	90	64,2	18	470
250-34	300	250	245	635	400	525	145	281	373	30	48	250	190	700	560	130	190	453	80	30	60	90	64,2	18	425
*250-41	300	250	180	705	400	600	145	321	404	30	48	250	190	800	660	130	190	526	80	30	60	90	64,2	18	465
250-55	350 Pn16	250 Pn25	128	681	470	580	145	364	480	25	15	250	200	800	660	100	190	603	60	30	70	100	74,6	20	597

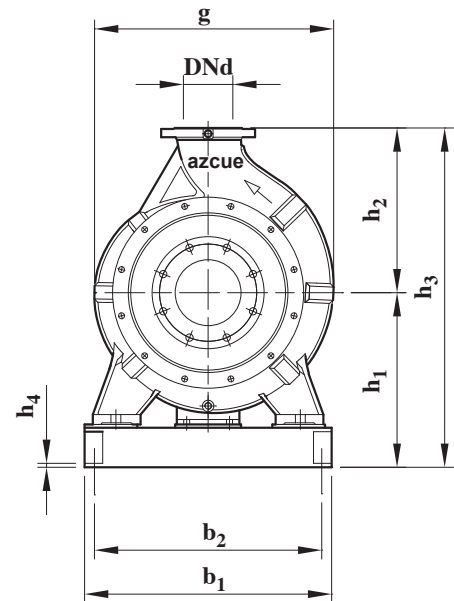
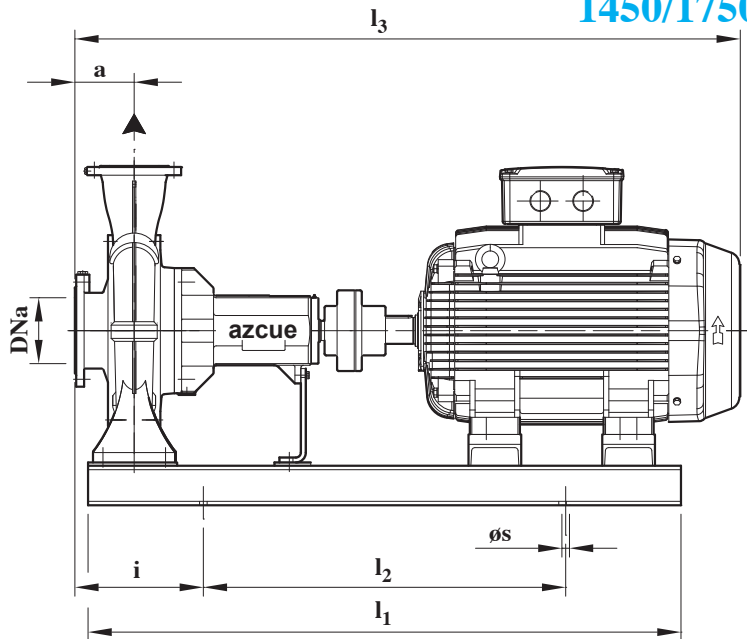
\* Consultar disponibilidad  
Sujeto a cambios / Subject to alterations / Sujet a des modifications [www.marinetec.com](http://www.marinetec.com)



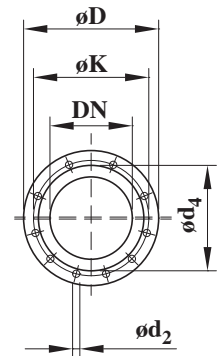
## Serie BOB / BOB Series

Montaje sobre bancada / Base plate assembly / Montage sur socle

1450/1750 r.p.m.



		EN1092, Pn16		Pn10	
Dna	Dnd	150	200	250	
d <sub>4</sub>		212	268	320	
K		240	295	350	
D		285	340	395	
Nº		8	8	12	
d <sub>2</sub>		22	22	22	



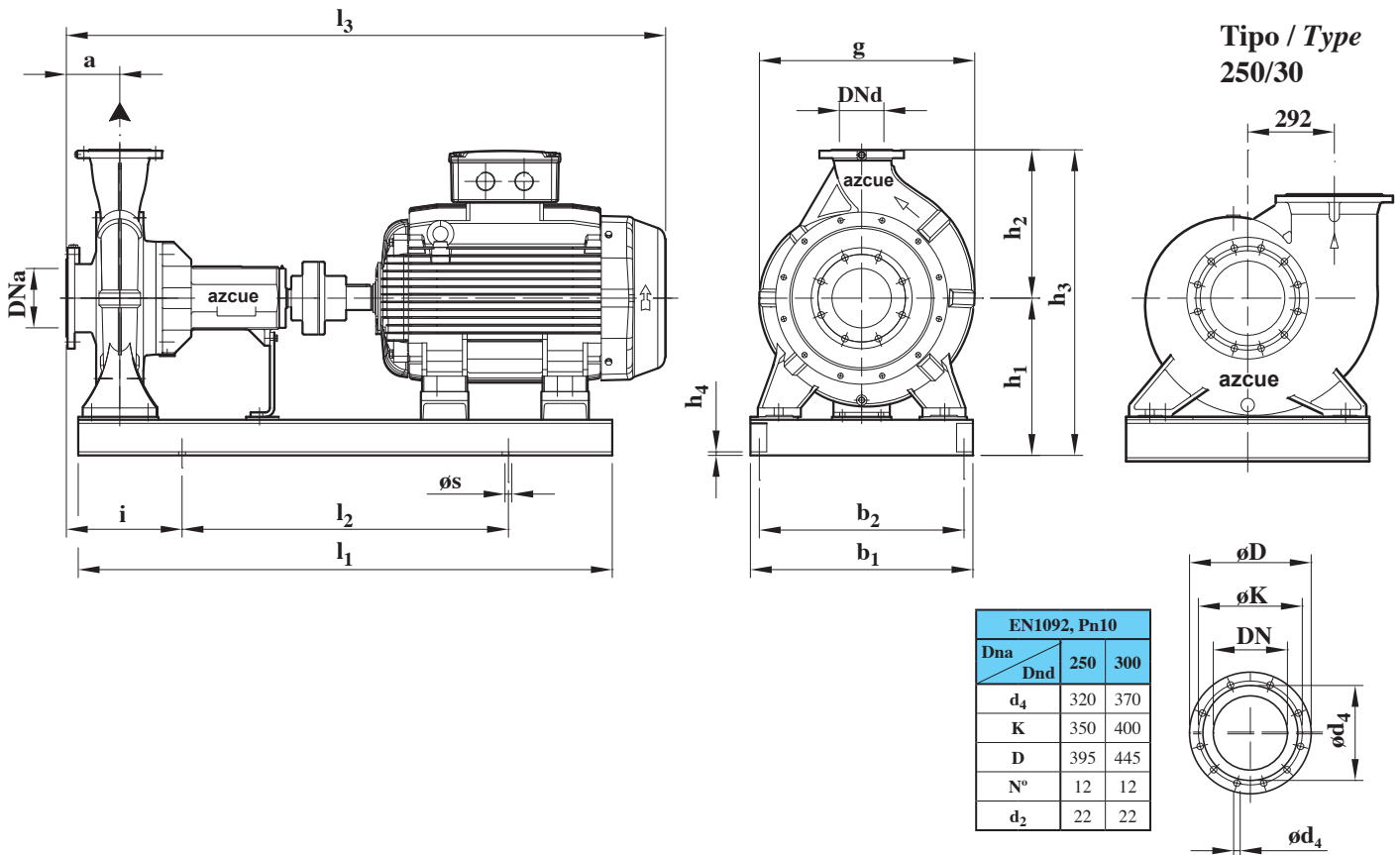
Tipo Type	Motor		DNa	DNd	a	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	s	b <sub>1</sub>	b <sub>2</sub>	g	i	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	kg.
	KW	Type																
150-51	75	280SM-4	200	150	175	530	500	1030	12	23	750	690	725	385	1700	1000	1930	1160
	90	280SM-4																1200
	110	315SM-4																1600
	132	315SM-4																1610
	160	315SM-4																1680
	200	315SM-4																1780
200-34	37	225S-4	250	200	175	530	475	1005	12	23	750	690	600	398	1500	900	1800	910
	45	225M-4																940
	55	250M-4																1200
	75	280SM-4																1270
	90	280SM-4																1310
	110	315SM-4																1510
200-40	55	250M-4	250	200	180	530	525	1055	12	23	750	690	680	488	1700	1000	1875	1260
	75	280SM-4																1330
	90	280SM-4																1370
	110	315SM-4																1570
	132	315SM-4																1580
	160	315SM-4																1640
200-51	110	315SM-4	250	200	174	530	575	1105	12	23	820	760	746	384	1800	1100	2140	1630
	132	315SM-4																1640
	160	315SM-4																1710
	200	315SM-4																1810
	250	355ML-4																1900
	315	355ML-4																1930

Sujeto a cambios / Subject to alterations / Sujet a des modifications



## Serie BOB / BOB Series

Montaje sobre bancada / Base plate assembly / Montage sur socle  
1450/1750 r.p.m.



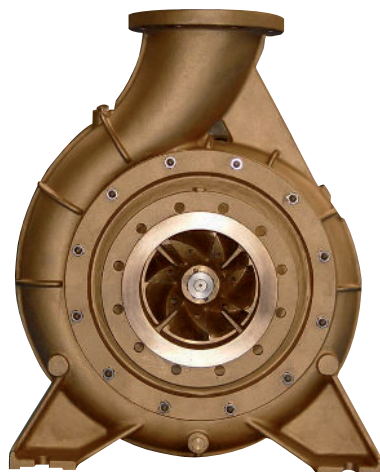
Tipo Type	Motor		DNa	DNd	a	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	s	b <sub>1</sub>	b <sub>2</sub>	g	i	l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>	kg
	KW	Type																
250-30	30	200L-4	250	250	220	550	350	900	12	25	820	395	-	455	1450	700	1665	780
	37	225S-4												900				
	45	225M-4												930				
	55	250M-4												1865	1000			
	75	280SM-4												1970	1270			
250-34	37	225S-4	300	250	245	530	525	1055	12	23	750	680	655	398	1500	900	1800	920
	45	225M-4												398	1600	1000	1875	950
	55	250M-4												1980	1020			
	75	280SM-4												448	1700	1000	1980	1190
	90	280SM-4												2220	1230			
	110	315SM-4												448	1800	1100	2185	1630
	132	315SM-4												2185	1640			
250-41	110	315SM-4	300	250	180	530	600	1130	12	23	820	760	740	380	1800	1100	2355	1620
	132	315SM-4												1630				
	160	315SM-4												2355	2030			
	200	315SM-4												2405	2040			
	250	355ML-4												380	2100	1400	2465	2110

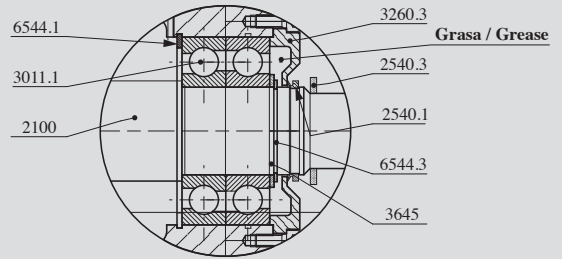
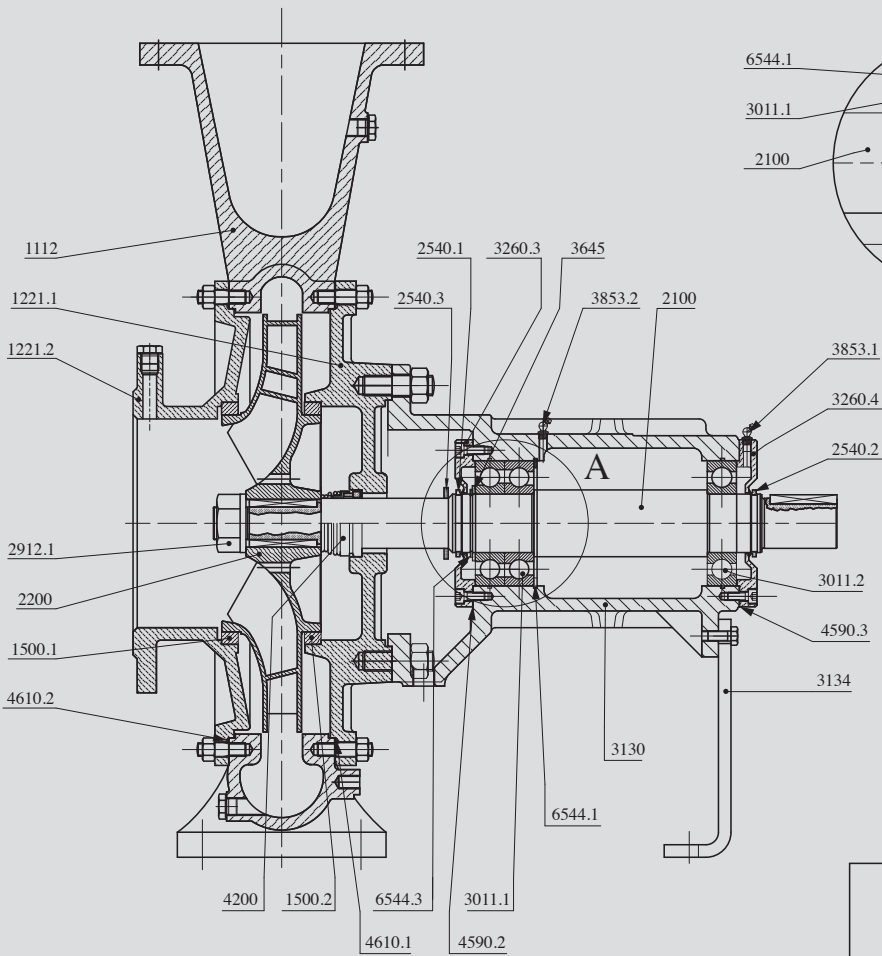




**Intercambiabilidad**  
**Interchangeability**  
**Interchangeabilite**

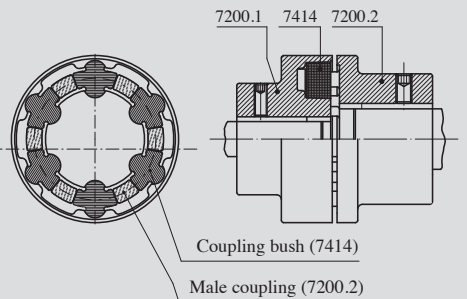
Denominación Description Denomination		Voluta Volute casing Volute	Tapa del cuerpo Casing cover Couvercle de corps	Eje Shaft Arbre	Rodete Impeller Roue	Rodamientos Ball bearings Roulements	Cierre mecánico Mechanical seal Garniture mécanique	Anillo desgaste Wear ring Bague d'usure	Anillo desgaste Wear ring Bague d'usure	Anillo desgaste Wear ring Bague d'usure	Anillo desgaste Wear ring Bague d'usure	Junta torica O-ring Joint torique	Tuerca rodete Impeller nut Ecrou roue
Ref.		1112	1221.2	2100	2200	3011.1-2	4200	1500.1	1500.2	1500.3	1500.4	4610.1	2912
TIPO BOMBA / PUMP TYPE / BOMBE TYPE	100/50	1	1	1	1	1	1	1	1	2	2	1	1
	125/50	2	2	2	2	1	1	3	3	3	3	1	1
	150/51	3	3	3	3	2	2	4	4	-	-	-	2
	200/34	4	4	3	4	2	2	5	5	-	-	-	2
	200/40	5	5	3	5	2	2	5	5	-	-	-	2
	200/51	6	6	3	6	2	2	5	5	-	-	-	2
	250/30	7	7	3	7	2	2	5	6	-	-	-	2
	250/34	8	8	3	8	2	2	7	8	-	-	-	2
	250/41	9	9	3	9	2	2	9	10	-	-	-	2
	250/55	10	10	4	10	3	3	11	11	-	-	-	3





Detalle A Detail

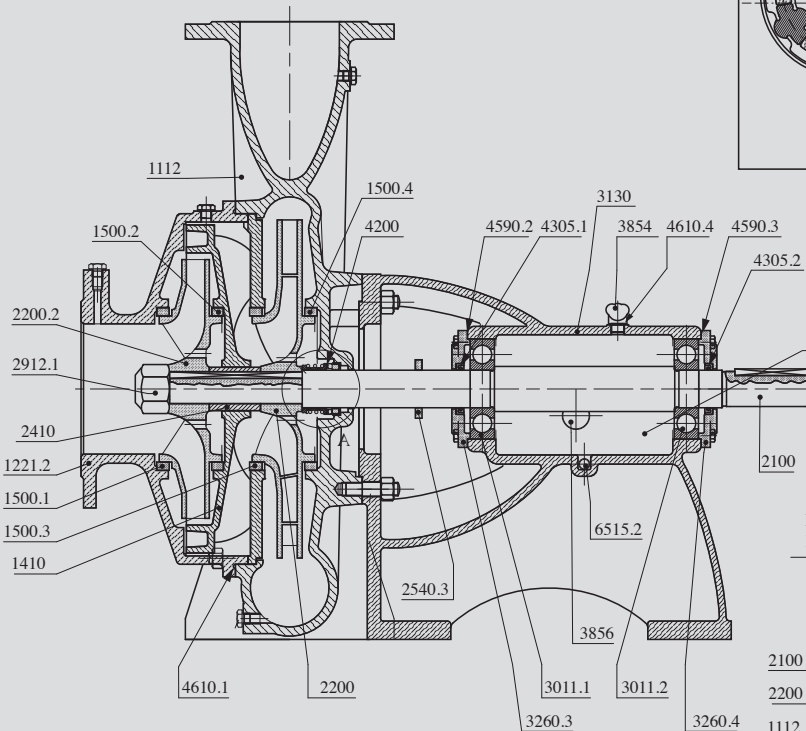
Acoplamiento / Coupling



Coupling bush (7414)  
Male coupling (7200.2)

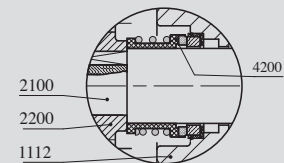
N. OVB-392-M

1 Etapa / 1 Stage



Oil / Aceite

Detalle A, Mechanical seal  
Detalle del cierre mecánico A  
Detail A, etancheite mecanique



N. BOB-391-M

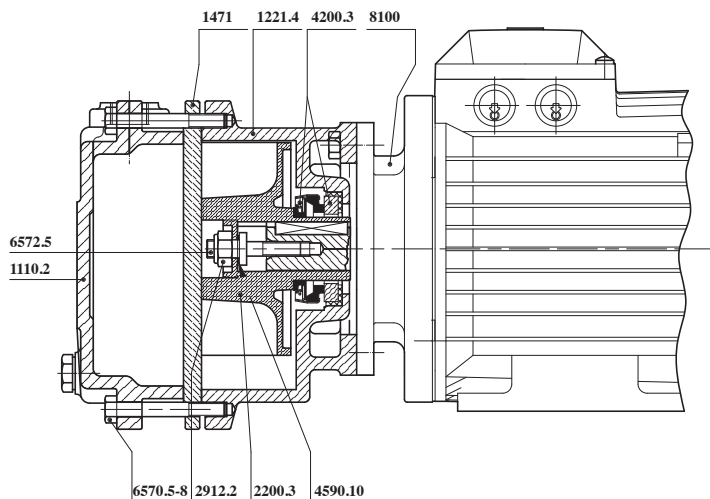
2 Etapas / 2 Stages (BOB 100/50, 125/50)



Denominación / Description / Denomination	Ref.
Cuerpo de bomba / Pump casing / Corps de pompe	1110.2
Voluta / Volute casing / Volute	1112
Tapa del cuerpo / Casing cover / Couvercle	1221.1
Tapa del cuerpo / Casing cover / Couvercle	1221.2
Tapa del cuerpo / Casing cover / Couvercle	1221.4
Difusor / Diffuser / Diffuseur	1410
Pared intermedia / Interstage plate / Cloison intermédiaire	1471
Anillo de desgaste / Casing wear ring / Bague d'usure	1500.1
Anillo de desgaste / Casing wear ring / Bague d'usure	1500.2
Anillo de desgaste / Casing wear ring / Bague d'usure	1500.3
Anillo de desgaste / Casing wear ring / Bague d'usure	1500.4
Eje / Shaft / Arbre	2100
Rodete / Impeller / Roue	2200.1
Rodete / Impeller / Roue	2200.2
Rodete / Impeller / Roue	2200.3
Casquillo entre estadios / Interstage sleeve / Chemisse d'arbre	2410
Deflector / Thrower / Deflecteur	2540.1-2
Deflector / Thrower / Deflecteur	2540.3
Tuerca de bloqueo del rodete / Impeller nut / Écrou de blocage roue	2912.1
Tuerca de bloqueo del rodete / Impeller nut / Écrou de blocage roue	2912.2
Tuerca de bloqueo del rodete / Impeller nut / Écrou de blocage roue	2912.3
Rodamiento radial de bolas / Radial ball bearing / Roulement à billes	3011.1
Rodamiento radial de bolas / Radial ball bearing / Roulement à billes	3011.2
Cuerpo del soporte doble / Bearing bracket / Corps de palier	3130
Pie de apoyo / Support foot / Bequille	3134
Tapa del soporte / Bearing cover / Couvercle de palier	3260.3-4
Arandela distanciadora / Disc spacer / Rondelle entretoise	3645
Engrasador / Grease nipple / Graisseur	3853.1-2
Tapón llenado aceite / Oil filter plug / Bouchon de remplissage d'huile	3854
Indicador de nivel de aceite / Oil sight gauge / Indicateur de niveau d'huile	3856
Retén mecánico / Mechanical seal / Garniture mecanique	4200
Retén mecánico / Mechanical seal / Garniture mecanique	4200.3
Anillo de estanqueidad del eje / Shaft seal ring / Bague d'tancheite d'arbre	4305.1-2
Junta plana / Gasket / Joint plant	4590.2-3
Junta plana / Gasket / Joint plant	4590.10
Junta tórica / O-ring / Joint torique	4610.1-2
Junta tórica / O-ring / Joint torique	4610.4
Tapón llenado / Priming plug / Bouchon de replissage	6511.1-2
Tapón vaciado / Drain plug / Bouchon de vidange	6515.2
Anillo de cierre / Circlip	6544.1
Anillo de cierre / Circlip	6544.3
Tornillo / Screw / Vis	6570.5-8
Espárrago / Stud / Goujon filete	6572.5
Semi-acoplamiento / Coupling half / Demi-accouplement	7200.1
Semi-acoplamiento / Coupling half / Demi-accouplement	7200.2
Amortiguador del acoplamiento / Coupling bush / Garniture de broche	7414
Motor / Moteur	8100

**Bomba de autocebado independiente**  
*Independent priming pump*

**Ejector de cebado**  
*Priming ejector*



- 1.- Ejector / Ejector
- 2.- Válvula solenoide / Solenoid valve
- 3.- Válvula neumática / Pneumatic valve

