



Serie • Series

BOB

BOMBAS CENTRÍFUGAS HORIZONTALES SERIE BOB

CENTRIFUGAL HORIZONTAL PUMPS BOB SERIES

POMPES CENTRIFUGES HORIZONTALES SERIE BOB



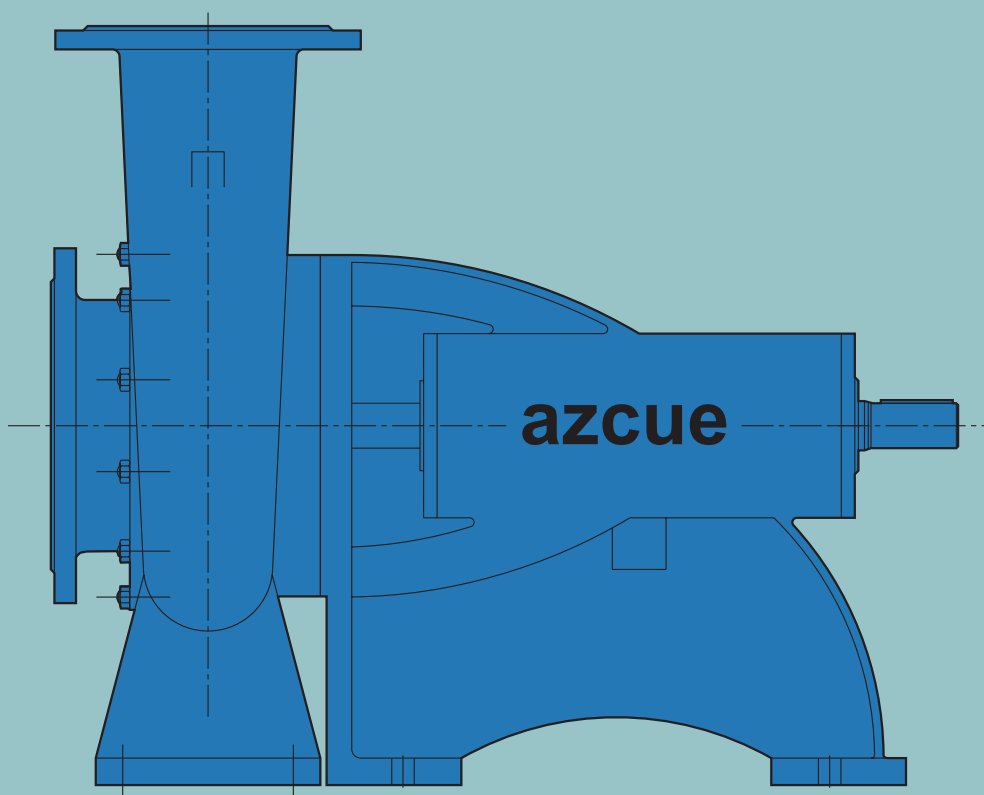
pumps

pumpen

azcue

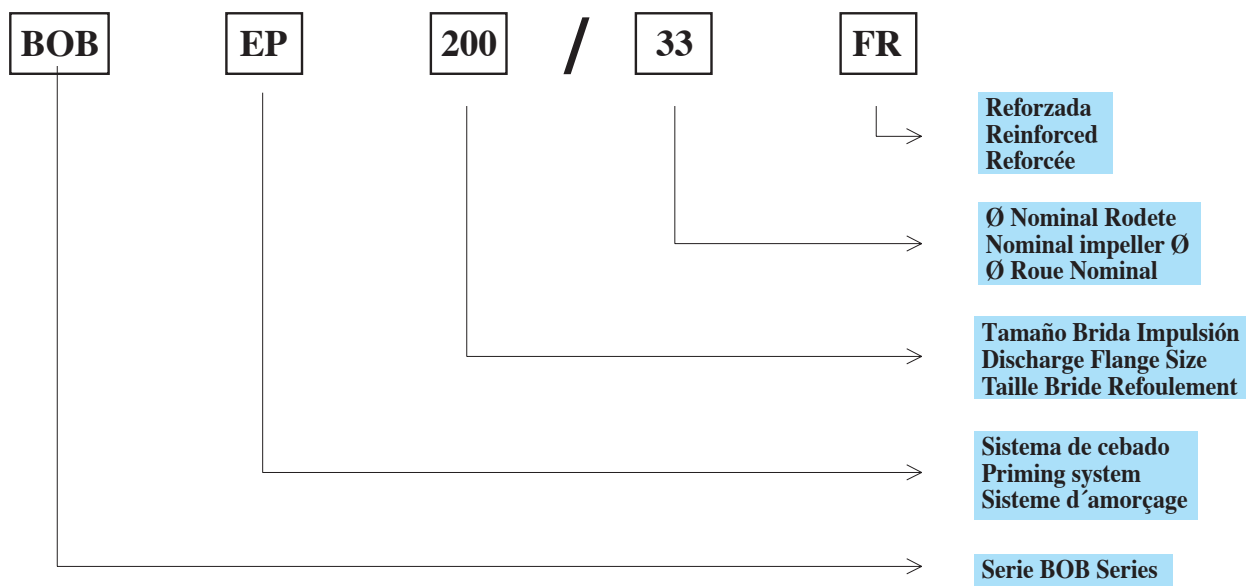
bombas

pompes





Nomenclatura / Description / Denomination



Materiales / Materials / Matériaux

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

Diseño:

- Bomba centrífuga horizontal.
- Diseño sobre soporte base con doble rodamiento de bolas en baño de aceite que confiere gran robustez y alta fiabilidad a la bomba.
- 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:

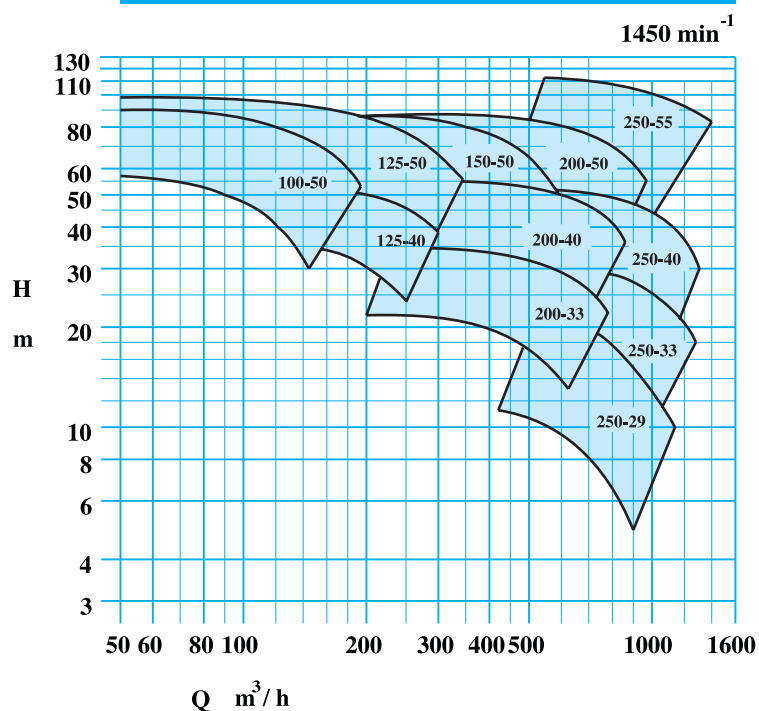
- Horizontal centrifugal pump.
- Robust design on a baseplate execution with 2 oil lubricated ball bearings providing a very high reliability to the pump.
- Construction with flexible coupling.
- Pump with high efficiency and low NPSH, consequently the pump has a great suction capacity.
- When it is needed the pump to be selfpriming a vacuum electropump, assembled to the main pump makes such function.

Desin:

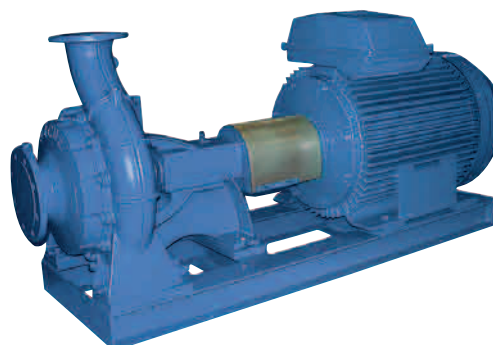
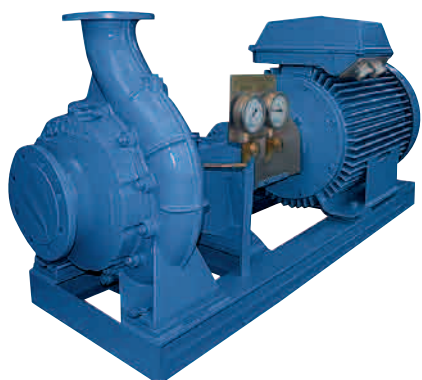
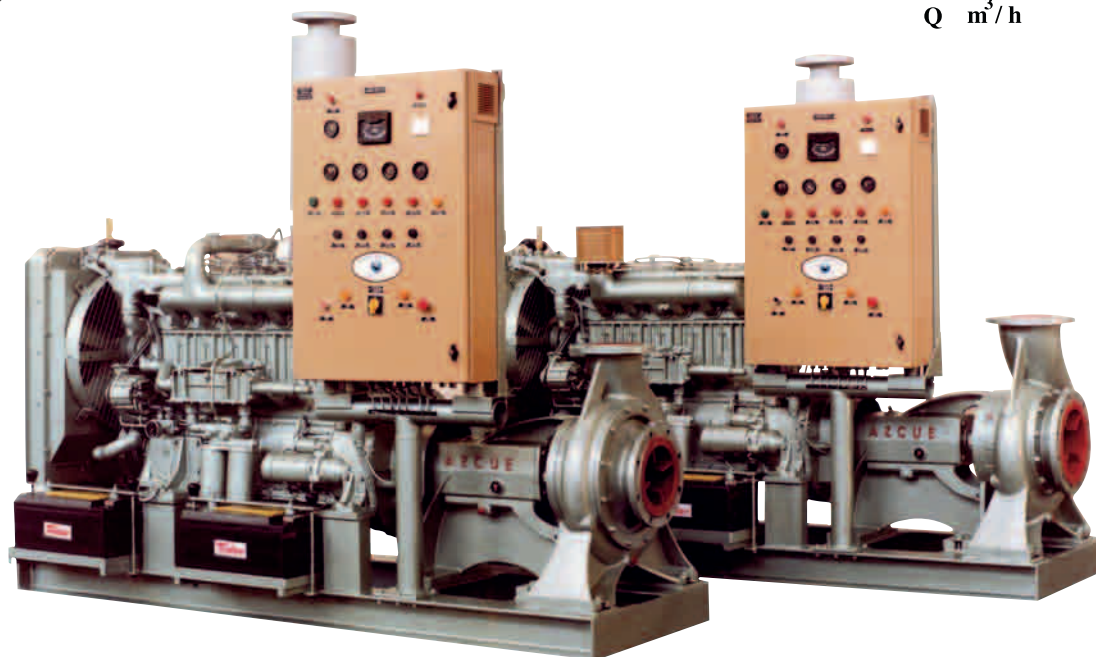
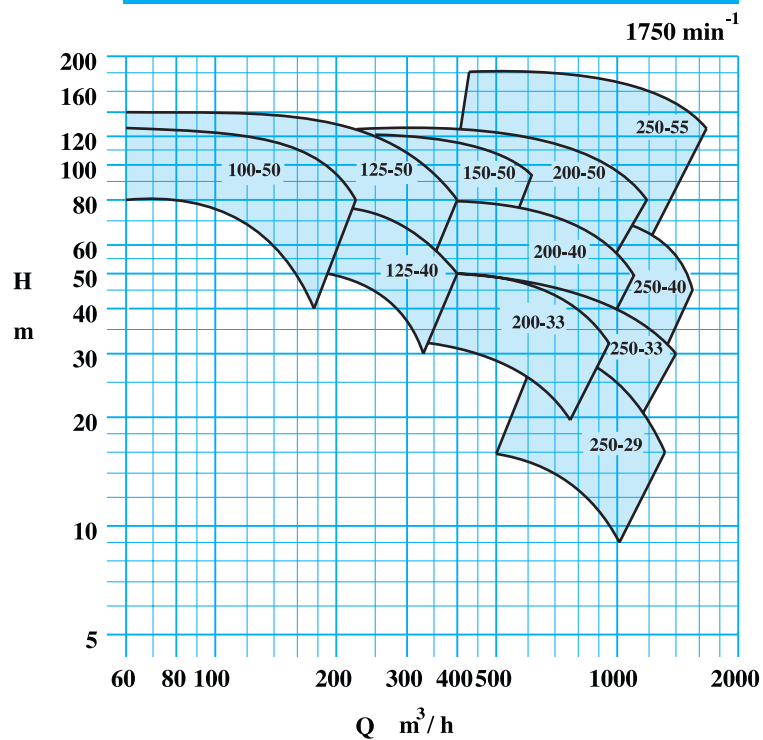
- Pompe centrifuge horizontale.
- Conception sur socle avec double roulement à billes en bain d'huile conférant à la pompe une grande robustesse et une haute fiabilité.
- Montage avec accouplement flexible.
- Pompe avec un haut rendement et bas NPSH, qui fait à la pompe avoir une grande capacité d'aspiration.
- Quand per besoins d'installation faut que la pompe soit autoamorçante, une electropompe a vide fait cette fonction.



50 Hz



60 Hz

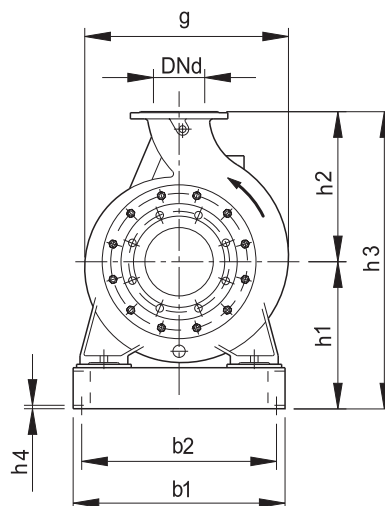
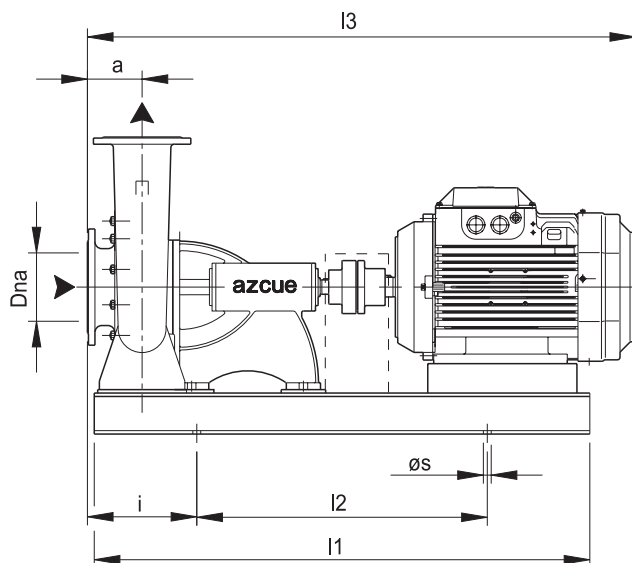




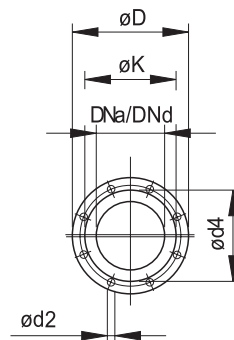
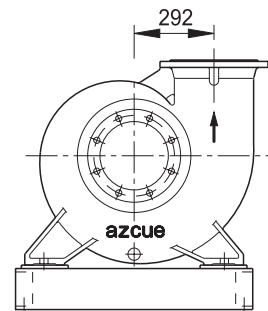
Serie BOB / BOB Series

Montaje sobre bancada / Base plate assembly / Montage sur socle

1450/1750 r.p.m.



Tipo / Type 250 / 29



DIN 2501, PN16				PN10		
DNa/DNd	100	125	150	200	250	300
d4	158	188	212	268	320	370
K°	180	210	240	295	350	400
D°	220	250	285	340	395	445
N°	8	8	8	8	12	12
d2	18	18	22	22	22	22

N. BOB-067/1

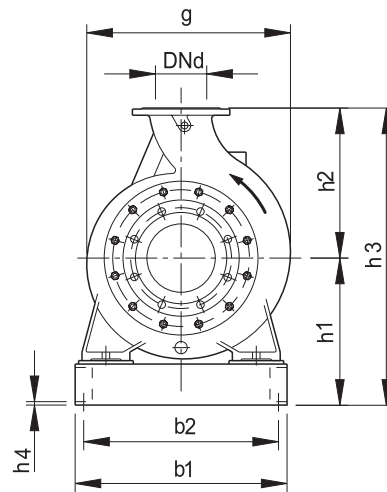
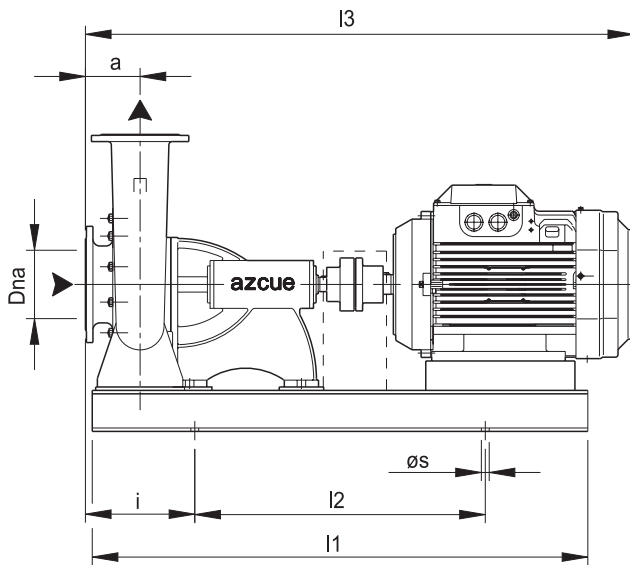
Tipo Type	Motor			DNa	DNd	a	h1	h2	h3	h4	s	b1	b2	g	i	l1	l2	l3	kg.
	KW	HP	Tipo																
100-50	30	40	200-L	125	100	235	410	400	810	10	20	580	540	540	350	1400	900	1610	510
	37	50	225-S															1710	540
	45	60	225-M															1710	565
	55	75	250-M															1790	630
	75	100	280-S															1910	760
125-40	30	40	200-L	150	125	160	410	480	890	10	20	580	540	600	265	1400	900	1560	565
	37	50	225-S															1660	600
	45	60	225-M															1735	620
	55	75	250-M															1860	685
	75	100	280-S															1860	815
125-50	37	50	225-S	150	125	242	410	480	890	10	20	580	540	600	405	1500	900	1740	655
	45	60	225-M															1740	680
	55	75	250-M				430	480	910	12	23	580	540	600	405	1600	1000	1815	755
	75	100	280-S															1940	870
	90	125	280-SM															2040	915
	110	150	315-S															2070	990
150-50	132	180	315-SM	200	150	175	530	500	1030	12	23	750	700	685	465	1800	1100	2170	1060
	75	100	280-S															2170	1160
	90	125	280-SM															2270	1200
	110	150	315-S															2200	1285
	132	180	315-SM															2300	1350
	160	220	315-MB															2350	1470
200-33	200	275	315-LA	250	200	175	530	475	1005	12	23	750	700	630	435	2000	1200	2350	1840
	37	50	225-S															920	
	45	60	225-M															940	
	55	75	250-M															1955	1010
	75	100	280-S															2080	1140
	90	125	280-SM															2180	1180
	110	150	315-S															2210	1380



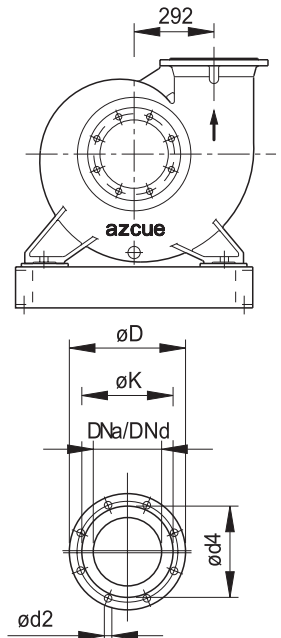
Serie BOB / BOB Series

Montaje sobre bancada / Base plate assembly / Montage sur socle

1450/1750 r.p.m.



Tipo / Type 250 / 29



	DIN 2501, PN16			PN10			PN25	PN16
DNa / DNd	100	125	150	200	250	300	250	350
d ₄	158	188	212	268	320	370	—	—
K ^o	180	210	240	295	350	400	370	470
D ^o	220	250	285	340	395	445	425	520
N ^o	8	8	8	8	12	12	12	16
d ₂	18	18	22	22	22	22	30	26

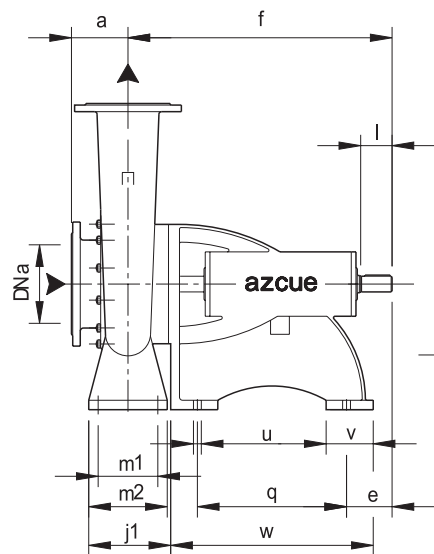
N. BOB-067/2

Tipo Type	Motor			DNa	DNd	a	h ₁	h ₂	h ₃	h ₄	s	b ₁	b ₂	g	i	l ₁	l ₂	l ₃	kg.
	KW	HP	Tipo																
200-40	55	75	250-M	250	200	180	530	525	1055	12	23	750	700	680	340	1600	1000	2095	1000
	75	100	280-S												390	1700	1000	2220	1130
	90	125	280-SM												390	1800	1100	2320	1170
	110	150	315-S												390	1800	1100	2350	1500
	132	180	315-SM												440	2000	1200	2350	1560
	160	220	315-MB												390	2100	1400	2400	2055
200-50	200	275	315-LA	250	200	180	550	575	1125	12	23	820	760	740	430	2000	1200	2210	1555
	110	150	315-S												430	2000	1200	2310	1610
	132	180	315-SM												390	2100	1400	2360	2100
	160	220	315-MB												390	2100	1400	2420	2230
	200	275	315-LA												390	2200	1500	2560	2430
	250	340	355-SA												435	1700	1000	1920	1000
250-29	30	40	200-L	250	250	220	550	350	900	12	23	820	395	775	455	1750	1000	1995	1070
	37	50	225-S												455	1750	1000	2120	1190
	45	60	225-M												440	1700	1000	1920	940
	55	75	250-M												440	1700	1000	1995	965
	75	100	280-S												450	1800	1100	2120	1160
	37	50	225-S												490	2000	1200	2250	1400
250-33	45	60	225-M	300	250	245	530	525	1055	12	23	750	700	695	440	1700	1000	1920	940
	55	75	250-M												440	1700	1000	1995	1035
	75	100	280-S												450	1800	1100	2120	1160
	90	125	280-SM												490	2000	1200	2220	1200
	110	150	315-S												490	2000	1200	2250	1400
	132	180	315-SM												490	2000	1200	2350	1450
250-40	110	150	315-S	300	250	180	550	600	1150	12	23	820	760	740	430	2000	1200	2355	1575
	132	180	315-SM												430	2000	1200	2355	1640
	160	220	315-MB												390	2100	1400	2405	2130
	200	275	315-LA												450	1800	1100	2465	2280
	250	340	355-SA												400	1900	1200	2350	2000
	315	425	355-LA												450	2000	1200	2450	2400
250-55	355	475	355-LB	350	250	186	620	580	1200	13	23	820	760	844	450	2000	1200	2450	2450
	400	550	355-LKD												450	2000	1200	2600	2800
	450-600	600-800	400												400	2100	1400	2800	3500

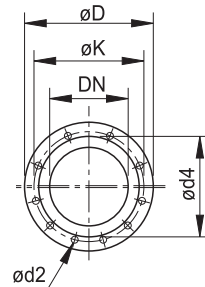
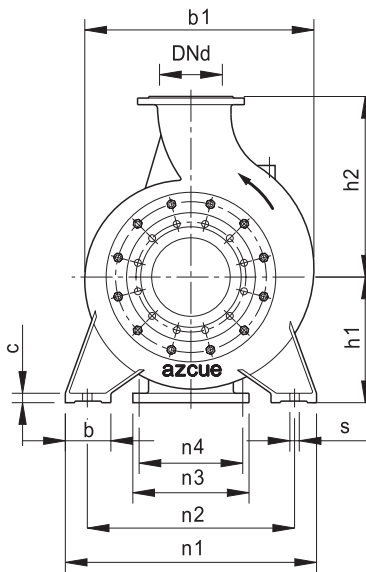
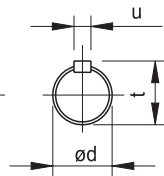
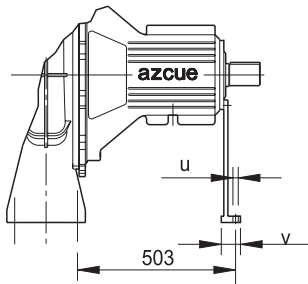


Serie BOB / BOB Series

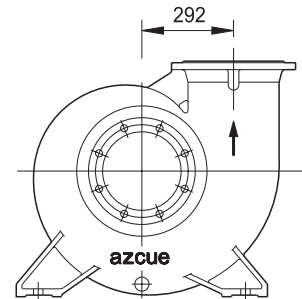
Eje libre / Bare shaft / Arbre nu



Tipo / Type BOB 250 / 55



Tipo / Type 250 / 29



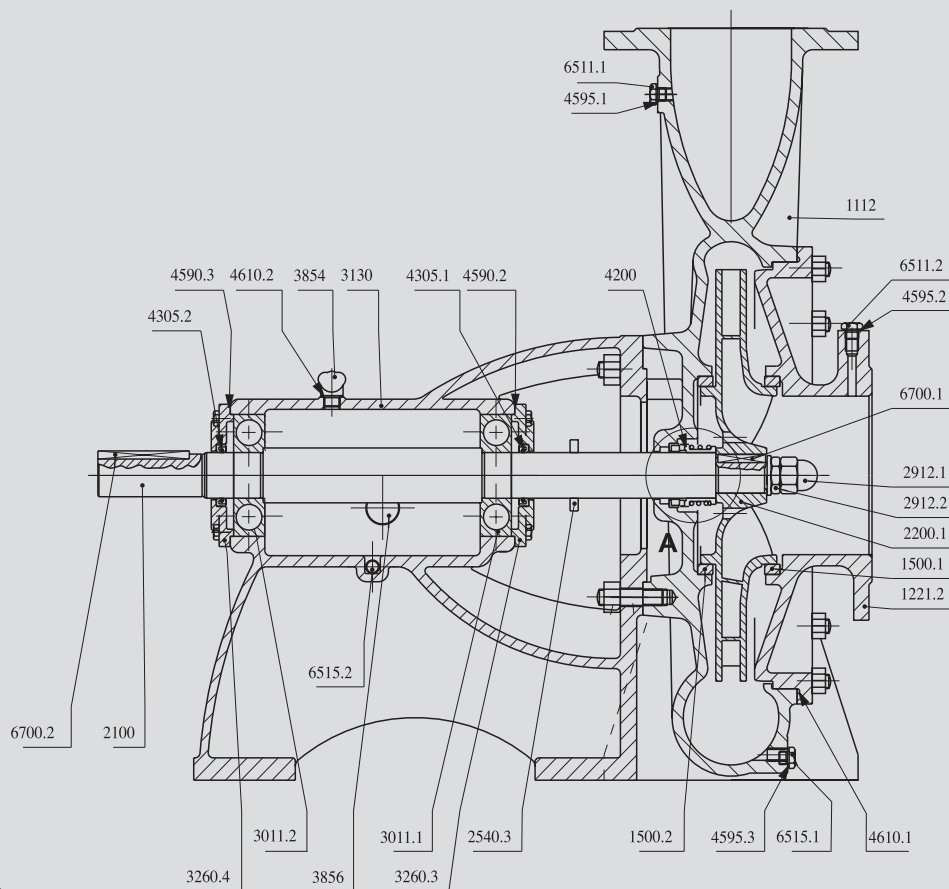
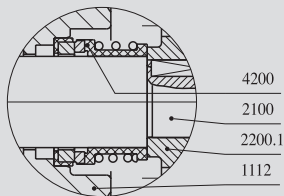
DNa DNd	DIN 2501, PN16			PN10			PN25	PN16
	100	125	150	200	250	300	250	350
d ₄	158	188	212	268	320	370	—	—
K ^o	180	210	240	295	350	400	370	470
D ^o	220	250	285	340	395	445	425	520
N ^o	8	8	8	8	12	12	12	16
d ₂	18	18	22	22	22	22	30	26

Ref. 909-BOB-100255

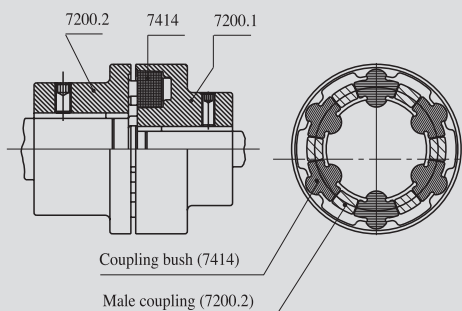
Tipo Type	DNa	DNd	a	f	h ₁	h ₂	b	b ₁	c	e	m ₁	m ₂	n ₁	n ₂	n ₃	n ₄	j ₁	w	q	v	u	s	d	l	t	u	kg
100-50	125	100	235	618	300	400	140	540	25	152	190	250	580	440	245	205	220	405	325	110	24	22	42	105	45,1	12	190
125-40	150	125	160	640	300	480	140	595	25	152	190	250	580	440	245	205	215	405	325	110	24	22	42	105	45,1	12	240
125-50	150	125	242	640	300	480	140	595	25	152	190	250	580	440	245	205	215	405	325	110	24	22	42	105	45,1	12	280
150-50	200	150	175	835	400	500	145	685	30	143	190	250	700	560	375	330	265	650	475	150	25	30	50	100	53,5	14	475
200-33	250	200	175	835	400	475	145	615	30	143	190	250	700	560	375	330	257	650	475	150	25	30	50	100	53,5	14	380
200-40	250	200	180	880	400	525	145	680	30	143	190	250	700	560	375	330	257	650	475	150	25	30	50	100	53,5	14	470
200-50	250	200	180	841	400	575	145	740	30	143	190	250	800	660	375	330	261	650	475	150	25	30	50	100	53,5	14	550
250-29	250	250	220	835	400	350	145	835	30	143	190	250	800	660	375	330	257	650	475	150	25	30	50	100	53,5	14	550
250-33	300	250	245	815	400	525	145	695	30	143	190	250	700	560	375	330	265	650	475	150	25	30	50	100	53,5	14	505
250-40	300	250	180	885	400	600	145	740	30	143	190	250	800	660	375	330	275	650	475	150	25	30	50	100	53,5	14	545
250-55	350	250	186	681	470	580	145	844	25	78	200	250	800	660	120	—	—	—	—	60	17	30	68	100	72,6	20	600



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



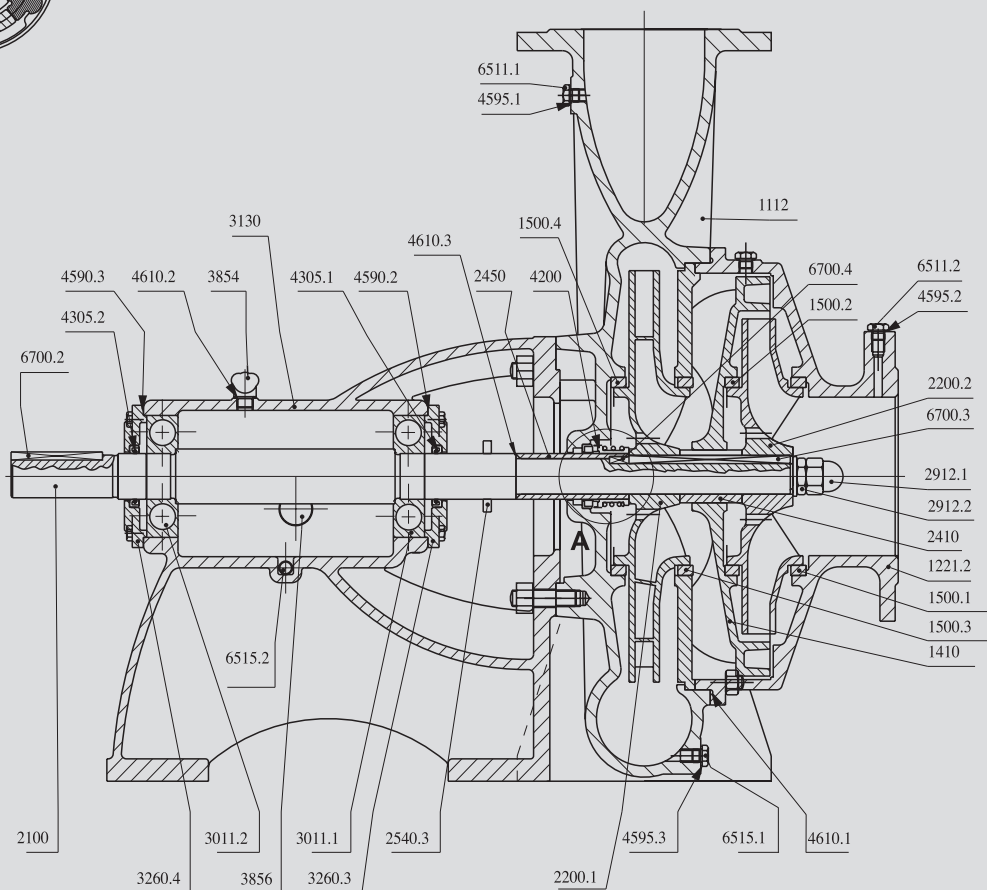
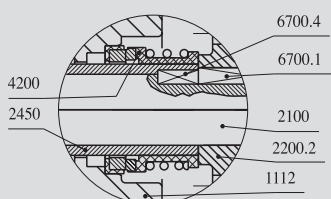
Acoplamiento / Coupling



N. BOB-377-M

1 Célula / 1 Stage / Monocelular

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



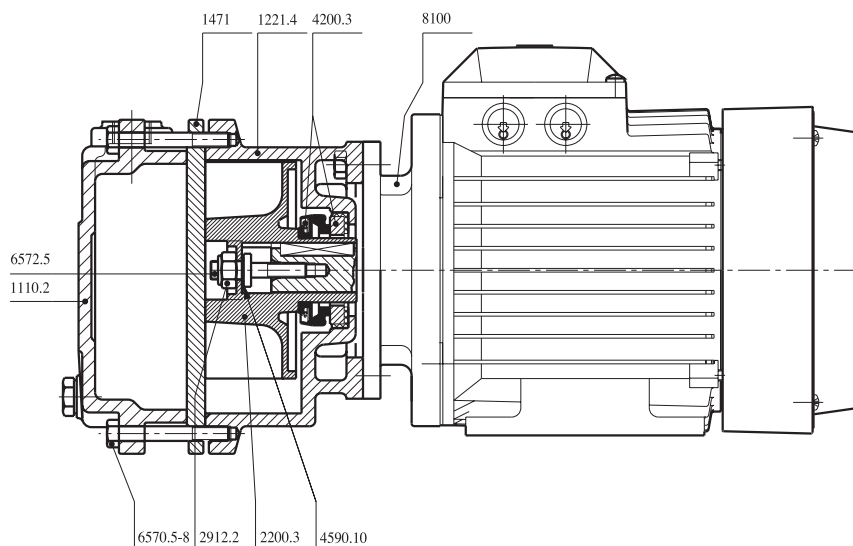
N. BOB-381-M

2 Células / 2 Stages / 2 Flux



Denominación / Description / Denomination	Ref.
Cuerpo de bomba / Pump casing / Corps de pompe	1100.2
Voluta / Volute casing / Volute	1112
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 / Chemise d'arbre	2410
Casquillo protector del eje / Shaft sleeve / Chemise d'arbre	2450
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
Rodamiento radial de bolas / Radial ball bearing / Roulement à billes	3011.1-2
Cuerpo del soporte doble / Bearing bracket / Corps de palier	3130
Tapa del soporte / Bearing cover / Couvercle de palier	3260.3-4
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 circular / Joint ring circular / Joint circulaire	4595.1-2
Junta circular / Joint ring circular / Joint circulaire	4595.3
Junta tórica / O-ring / Joint torique	4610.1
Junta tórica / O-ring / Joint torique	4610.2
Junta tórica / O-ring / Joint torique	4610.3
Tapón llenado / Priming plug / Bouchon de replissage	6511.1-2
Tapón vaciado / Drain plug / Bouchon de vidange	6515.1
Tapón vaciado / Drain plug / Bouchon de vidange	6515.2
Tornillo / Screw / Vis	6570.5-8
Espárrago / Stud / Goujon filete	6572.5
Chaveta / Key / Clavette	6700.1
Chaveta / Key / Clavette	6700.2
Chaveta / Key / Clavette	6700.3
Chaveta / Key / Clavette	6700.4
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

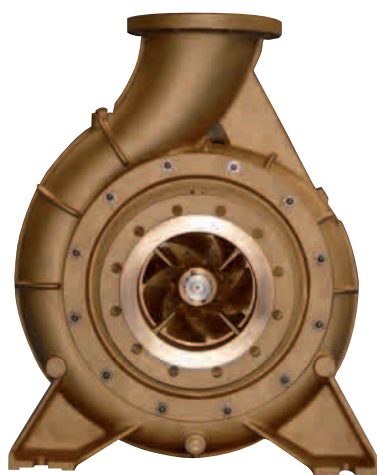


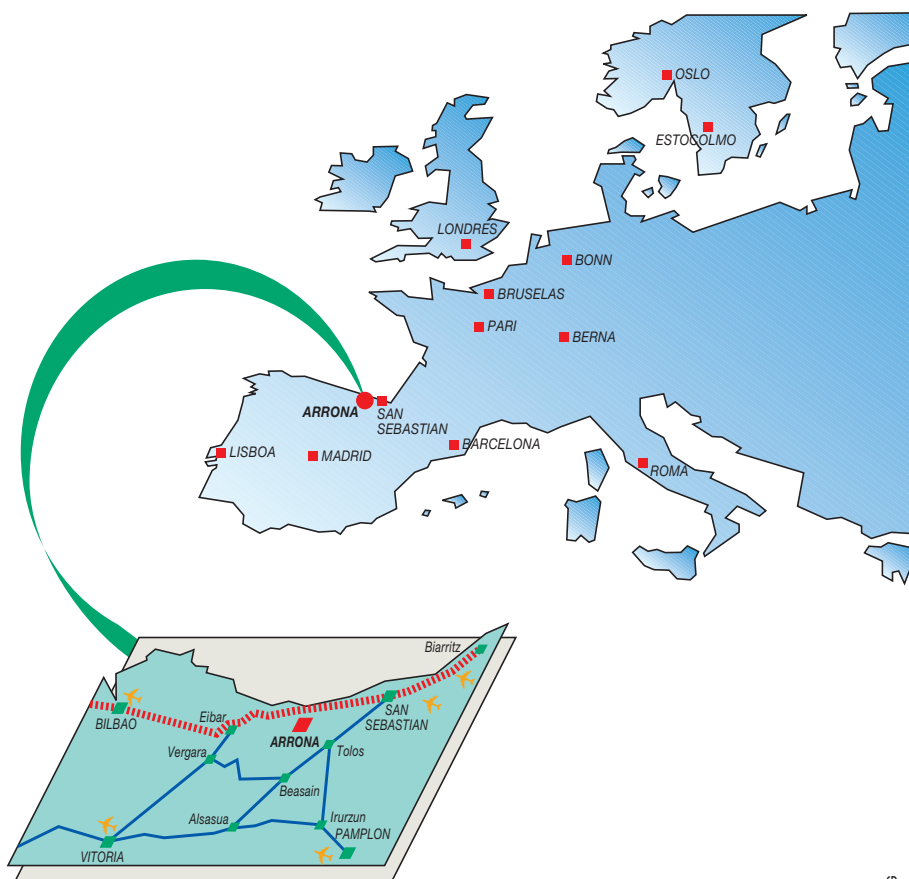
N. VAC4-344-M



Intercambiabilidad Interchangeability Interchangeabilite

Denominación Description Denomination		Voluta Volute casing Volute	Tapa del cuerpo Casing cover Couverture 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
Referencia		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
	125/40	2	2	2	2	1	1	2	2	-	-	-	1
	125/50	2	3	3	3	1	1	3	3	3	3	1	1
	150/50	3	4	4	4	2	2	4	4	4	-	-	2
	200/33	4	5	4	5	2	2	5	5	5	-	-	2
	200/40	5	6	4	6	2	2	5	5	5	-	-	2
	200/50	6	7	4	7	2	2	5	5	5	-	-	2
	250/29	7	8	4	8	2	2	7	5	6	-	-	2
	250/33	8	9	4	9	2	2	8	7	8	-	-	2
	250/40	9	10	4	10	3	3	9	9	9	-	-	2
	250/50	10	11	4	11	3	3	10	10	10	-	-	2
	250/55	11	12	5	12	3	3	11	11	11	-	-	3





pumps

bombas

azcue

pumpen

pompes

FABRICA Y OFICINAS
FACTORY AND HEAD OFFICE

Tel.: +34 943 14 70 47*
Fax: +34 943 14 74 40
E-mail: comercial@azcuepumps.es
ARRONA - (Guipúzcoa) Spain

DIRECCION POSTAL
P. O. BOX

Apartado de Correos, 34
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