

Serie
Series

BS-S-PM

BOMBAS DE PISTON HORIZONTALES

HORIZONTAL PISTON PUMPS

POMPE A PISTON HORIZONTALES



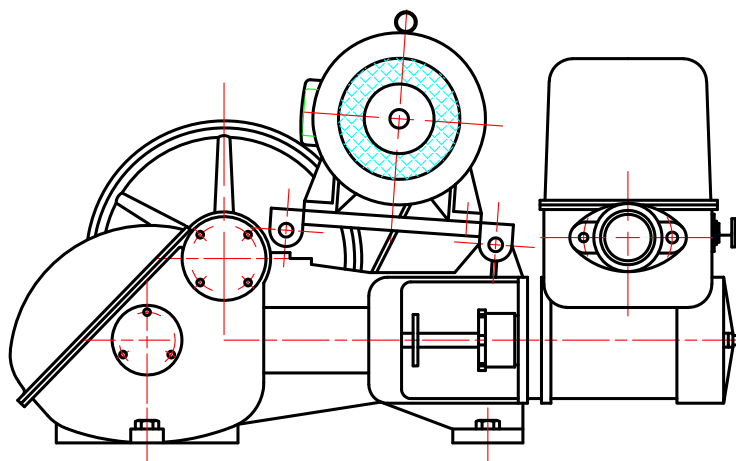
pumps

pumpen

azcue

bombas

pompes





BS

 —

50

S
PM

15
25
40
75
100
150
450

Tamaños
Sizes

Serie
Series

Materiales / Materials / Matériaux

Cuerpo Casing	Cast iron / Hierro fundido
Embolo Piston rod	Acero inoxidable / Stainless steel
Tapa del cilindro Cylinder cover	Cast iron / Hierro fundido

Diseño:

- Bomba de pistones.
- Temperatura max. 35°C (estandar)
- Temperatura max. 60°C (bajo demanda)

Design:

- Piston pump.
- Max. temp. 35°C (standard)
- Max. temp. 60°C (special request)

Desin:

- Pompe a piston
- Temperature max. 35°C (standard)
- Temperature max. 60°C (a la demande)

DESCRIPCIÓN

Bomba de pistones con engranes de precisión helicoidal doble de inmejorable trabajo y duración de la vida.

Caja de empaquetadura sellada doble a prueba de fugas.

Conexiones de tubería en la caja de válvulas y no en la cámara de aire.

Los lados de succión y descarga se pueden intercambiar según sea necesario.

Válvula de seguridad de diafragma incorporada, en todos los modelos hasta BS-50. Modelos S-75 en adelante con válvula rotativa ajustable manualmente.

DESCRIPTION

Piston pump with double helical precision gear of unsurpassable working quietness and lenght of life.

Double sealed, leak-proof stuffing box. Pipe connections on valve box and not on air chamber.

Suction and discharge sides inter-changeable as required.

Built-in diaphragm safety valve, on all models up to BS-50. Models S-75 on-wards with manually adjustable rotary valve.

APLICACIONES/SERVICIOS

- + Marina
- + Sentinas, Achique, Servicios Generales
- + Suministro de aguas de ciudad
- + Agricultura
- + Sistemas de regadio
- + Industria

APPLICATIONS/SERVICES

- + Marine
- + Bilge, Ballast, General service
- + Town water supply
- + Agriculture Farming
- + Irrigation system
- + Industry

TECHNICAL DATA
BS-SERIES
Standard Versions



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MODEL		BS15	BS25	BS40	BS50
Average Output	l/h	1500	2500	4000	5000
Maximum Output	l/h	-	-	-	-
Average Delivery Head	m	40	40	40	40
Maximum Delivery Head	m	60	60	60	60
Average Suction Head	m	7.0	7.0	7.0	7.0
Test Suction Head	m	8.5	8.5	8.5	8.5
Length of Stroke	mm	45	62	68	78
Cylinder Diameter	mm	60	70	80	90
Average Strokes per Minute		104	92	100	90
Maximum Strokes per Minute		-	-	-	-
Gear Ratio		72:17 (4.24)	83:17 (4.88)	81:17 (4.76)	83:17 (4.88)
Average Revolutions of Drive Shaft	RPM	440	450	476	440
Maximum Revolutions of Drive Shaft	RPM	-	-	-	-
Diameter of Drive Shaft	mm	14 _{k6}	16 _{k6}	18 _{k6}	18 _{k6}
Effective Diameter of Pump V-Belt Pulley	mm	214	232	280	362
Average Motor Revolutions	RPM	1450	1450	1450	1450
Maximum Motor Revolutions	RPM	1750	1750	1750	1750
Motor V-Belt Pulley eff. dia. at 1450 rpm	mm	65	72	92	110
Motor V-Belt Pulley outer dia. at 1450 rpm	mm	71	80	100	120
Motor V-Belt Pulley eff. dia. at 1750 rpm	mm	54	60	78	92
Motor V-Belt Pulley outer dia. at 1750 rpm	mm	60	68	86	102
Volumetric Efficiency		96%	96%	96%	96%
Mechanical Efficiency		60%	60%	60%	60%
Driving Efficiency at 40m Delivery Head and Average Output	kW	0.37	0.55	0.75	1.1
Driving Efficiency at 60m Delivery Head and Average Output	kW	0.55	0.75	1.1	1.5
Size of V-Belt	mm	10 x 820	13 x 975	13 x 1120	17 x 1335
No. of Belts		2	2	2	2
Suction Connection	G	1	1 1/4	1 1/2	2
Discharge Connection	G	1	1	1 1/4	1 1/2
Length of Pump	approx. mm	520	660	750	850
Width of Pump	approx. mm	220	230	260	360
Height of Pump	approx. mm	320	380	420	470
Net Weight of Pump without Motor	approx. kg	28	46	66	90

TECHNICAL DATA

S-SERIES

(Standard Versions)



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Model		S75	S100	S150	Duplex S200	Duplex S300	S456
Average Output	m ³ /h	7.5	10	15	20	30	25
Maximum Output	m ³ /h	10	15	20	30	40	45
Average Delivery Head	bar	4					
Maximum Delivery Head	bar	6					
Average Suction Head	bar	-0.7					
Test Suction Head	bar	-0.85					
Length of Stroke	mm	95	115	122	2 x 115	2 x 122	122
Cylinder Diameter	mm	110	125	145	2 x 125	2 x 145	180
Average Strokes per Minute		73	62	65	62	65	74
Maximum Strokes per Minute		98	93	87	93	87	132
Gear Ratio		91:18	91:19	86:19	91:19	86:19	86:19
Average Revolutions of Drive Shaft	rpm	372	300	296	300	296	340
Maximum Revolutions of Drive Shaft	rpm	498	451	399	451	399	580
Diameter of Drive Shaft	mm	28 _{k6}	35 _{k6}	38 _{k6}	35 _{k6}	38 _{k6}	38 _{k6}
Effective Dia. of Pump V-Belt Pulley	mm	400	500	560	530	590	500
Average Motor Revolutions	rpm	1450					
Maximum Motor Revolutions	rpm	1750					
Effective Diameter of Motor Pulley							
Average Output at 1450 rpm	mm	100	106	112	110	122	118
1750 rpm	mm	85	85	100	91	101	95
Outer Diameter of Motor Pulley							
Average Output at 1450 rpm	mm	104	110	119	120	132	123.6
1750 rpm	mm	89	89	107	101	111	100.6
Effective Diameter of Motor Pulley							
Maximum Output at 1450 rpm	mm	140	160	150	165	162	200
1750 rpm	mm	112	132	125	137	135	170
Outer Diameter of Motor Pulley							
Maximum Output at 1450 rpm	mm	144	164	157	175	172	205.6
1750 rpm	mm	116	136	132	147	145	175.6
Volumetric Efficiency	%	97					
Mechanical Efficiency	%	59	62	63	65	65	60
Driving Efficiency at 4bar Delivery Head and Average Output	kW	1.5	2.2	3.0	4.0	6.5	7.5
Driving Efficiency at 6bar Delivery Head and Average Output	kW	2.2	3.0	5.5	7.5	11	7.5
Driving Efficiency at 4bar Delivery Head and Maximum Output	kW	2.2	3.0	4.0	6.5	7.5	11
Driving Efficiency at 6bar Delivery Head and Maximum Output	kW	3.0	5.5	7.5	11	15	15
Size of V-Belt	mm	XPZ x 1550Lw	XPZ x 1850Lw	XPB x 2240Lw	17 x 1900Li	17 x 2260Li	SPA x 2132Lw
No. of Belts		2	3	3	4	6	3
Suction Connection	G	2 ½	3	3	3 + 3	3 + 3	4
Discharge Connection	G	2	2 ½	3	3	4	4
Length of Pump	mm	1050	1245	1400	1245	1450	1370
Width of Pump	mm	460	490	573	1050	1250	515
Height of Pump	mm	500	630	755	700	800	845
Net Weight of Pump without Motor	app. kg	171	245	410	510	830	500

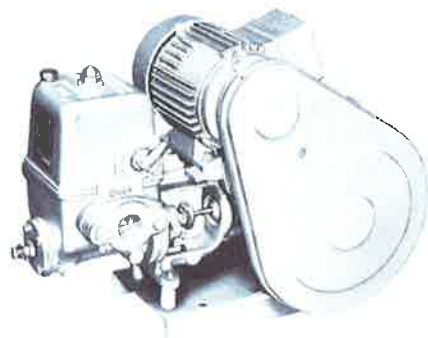


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1.4 Technical Data and Dimenions

PM SERIES

Model		PM10	PM15	PM20	PM30
Flow Rate	l/h	1000	1500	2000	3000
Water Head normal/maximum	m	40/60	40/60	40/60	40/60
Motor Performance at 40m	kW	0.25	0.37	0.37	0.55
Motor Performance at 60m	kW	0.37	0.55	0.55	0.75
No. of V-Belts		1	1	2	3
Profile x Inner Length		10 x 875	10 x 875	10 x 950	10 x 1230
Connection Sizes Suction x Discharge	Inch	1 x 1	1 x 1	1 ¼ x 1	1 ¼ x 1 ¼
Dimensions approx.	cm	52x23x35	52x23x37	61x24x40	70x27x52
Weight w/o Motor approx.	kg	23	24	33	55

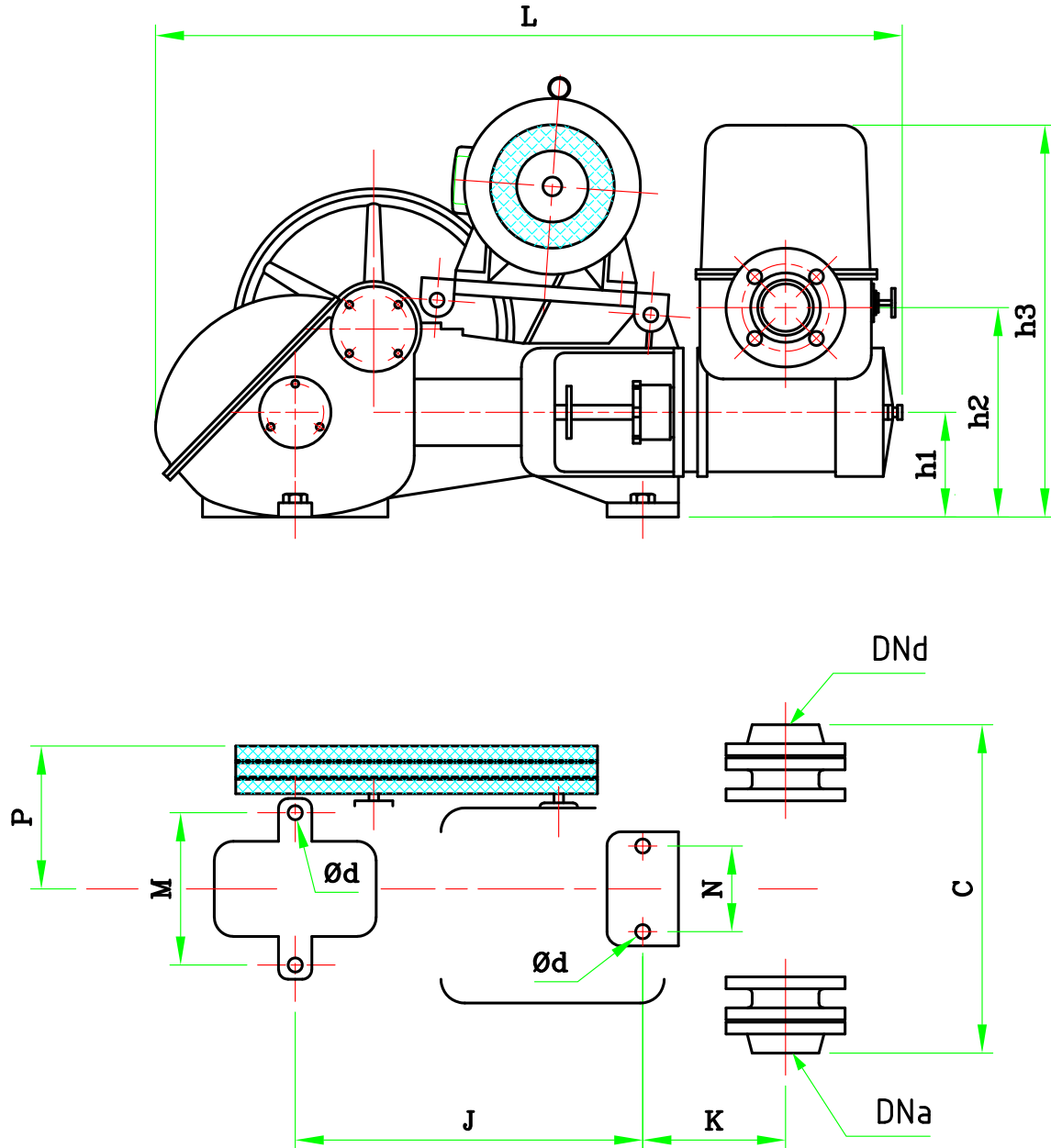




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Serie BS, S, Series

Ref. BS-921

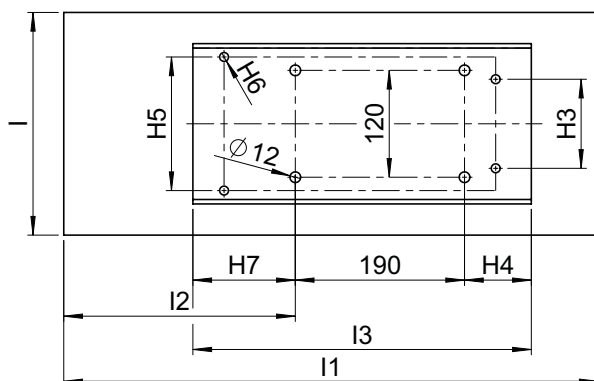
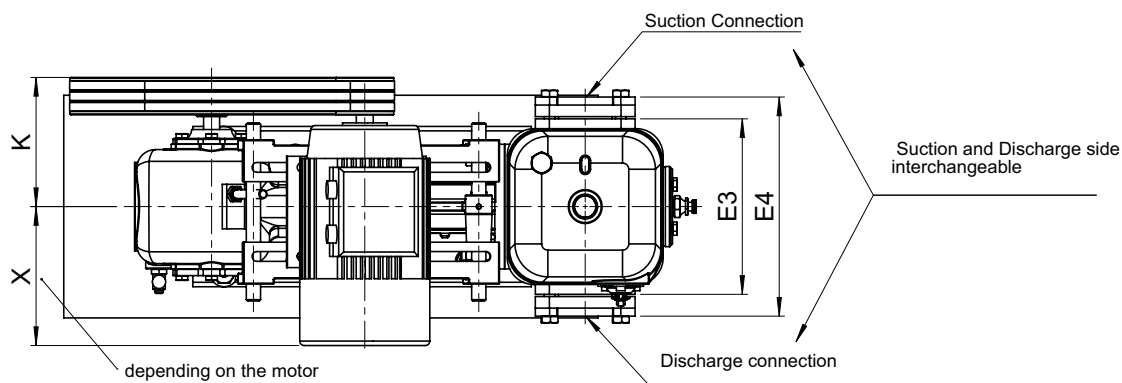
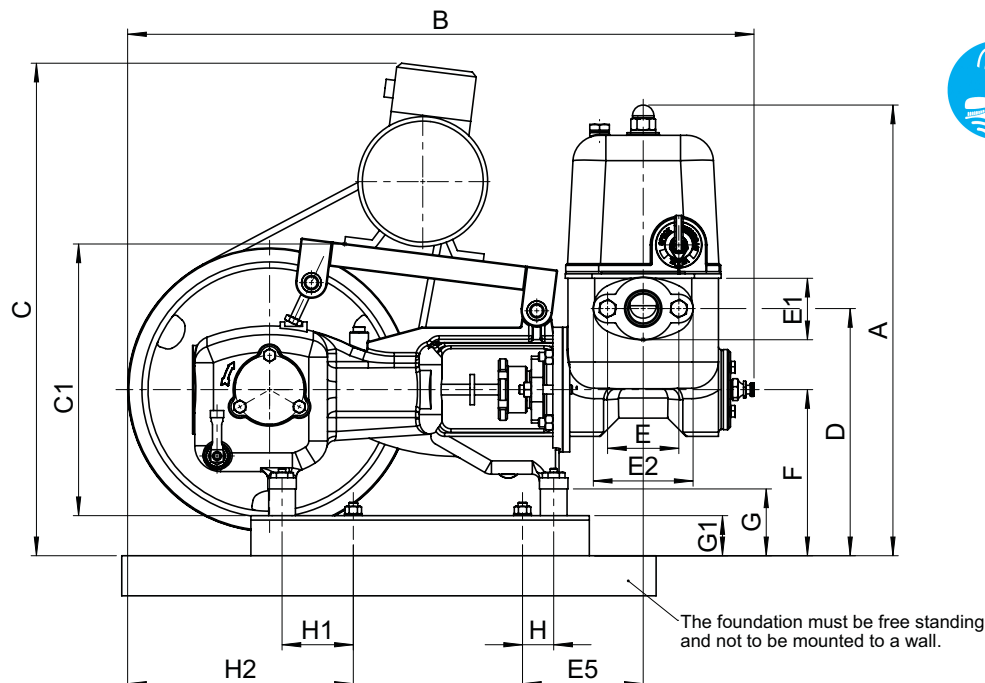


Tipo / Type	Q m ³ /h	H=4 Bar 4 Polos Motor KW	DNa	DNd	h1	h2	h3	C	J	K	M	N	Ød	P	L
BS 15	1,5	0,37	ISO G1	ISO G1	75	149	329	200	235	105	110	85	10	113	545
BS 25	2,5	0,55	ISO G1 ¼	ISO G1	94	191	370	215	310	120	120	108	12	120	660
BS 40	4	0,75	ISO G1½	ISO G1¼	104	208	417	239	335	148	140	90	14	135	771
BS 50	5	1,1	ISO G2	ISO G1½	123	246	460	281	380	175	165	95	14	160	860
S75	7,5	1,5	ISO G2½	ISO G2	147	275	490	450	440	205	200	110	20	215	1050
S100	10	2,2	ISO G3	ISO G2½	175	325	630	495	528	230	250	140	20	237	1245
S150	15	3	ISO G3	ISO G3	194	385	755	615	620	280	370	180	20	275	1450
S450	30	6,5	DN100	DN100	200	435	845	460	620	275	330	180	20	280	1350



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PM SERIES



	Pump dimensions													Connections	
	A	B	C	C1	D	E	E1	E2	E3	E4	E5	F	K	Suction	Discharge
PM10	358	526	depending on the motor	186	201	54	48	82	155	196	123,5	136	110	G 1	G1
PM15	383	525		186	194	70	59	100	155	200	122	136	110	G 1	G1
PM20	416	620		206	209	70	59	100	170	215	121	140	130	G 1_1/4	G1
PM30	510	690		325	275	80	70	110	195	240	135	185	145	G 1_1/4	G1_1/4

Foundation dimensions														
	G	G1	H	H1	H2	H3	H4	H5	H6	H7	I	I1	I2	I3
PM10	70	40	40	35	105	90	60	110	ø7	60	250	450	130	310
PM15	70	40	40	35	105	90	60	110	ø7	60	250	450	130	310
PM20	70	40	23	70	192,5	92,5	55	140	ø7	115	270	520	220	360
PM30	75	45	35	80	260	100	75	150	ø12	115	320	600	290	380