

Serie
Series

BS-S

BOMBAS DE PISTON HORIZONTALES

HORIZONTAL PISTON PUMP

POMPE A PISTON HORIZONTALES



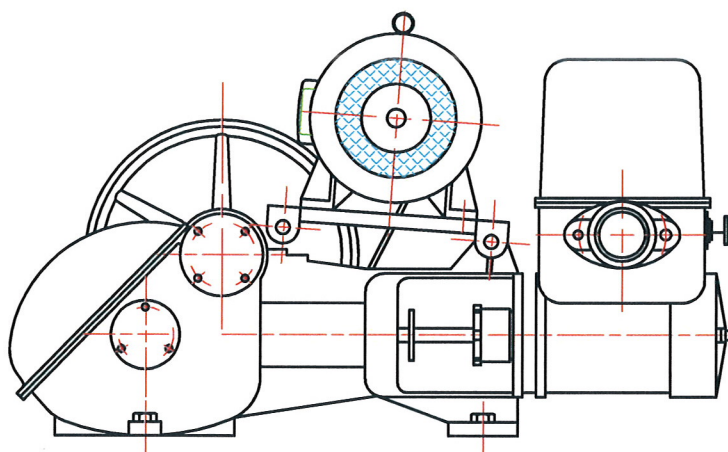
pumps

pumpen

azcue

bombas

pompes



TECHNICAL DATA CHART BS-SERIES

Standard Versions



pumps

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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 CHART "BÜFFEL" S-SERIES

(Standard Versions)

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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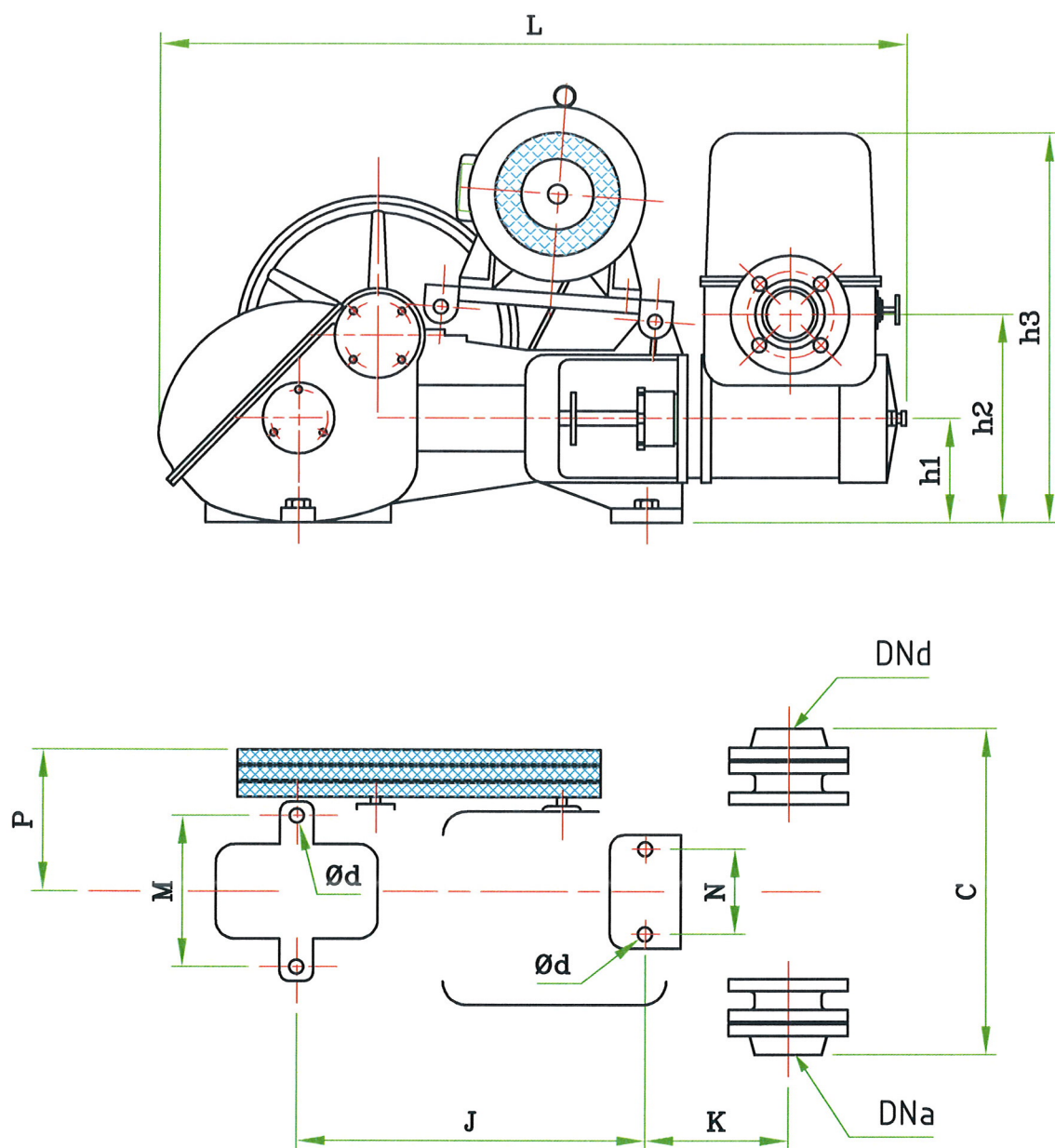
pompes



azcue

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 1/4	ISO G1	94	191	370	215	310	120	120	108	12	120	660
BS 40	4	0,75	ISO G1 1/2	ISO G1 1/4	104	208	417	239	335	148	140	90	14	135	771
BS 50	5	1,1	ISO G2	ISO G1 1/2	123	246	460	281	380	175	165	95	14	160	860
S75	7,5	1,5	ISO G2 1/2	ISO G2	147	275	490	450	440	205	200	110	20	215	1050
S100	10	2,2	ISO G3	ISO G2 1/2	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