



POMPE•ITALIA

GENERAL CATALOGUE

ELECTROPUMPS

ENGINE-DRIVEN PUMPS

**A clean way
to handle
dirty liquids**



ROBUSTA
Hydraulic System

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ELECTROPUMPS

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ENGINE-DRIVEN PUMPS

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SELF-PRIMING RB PUMPS

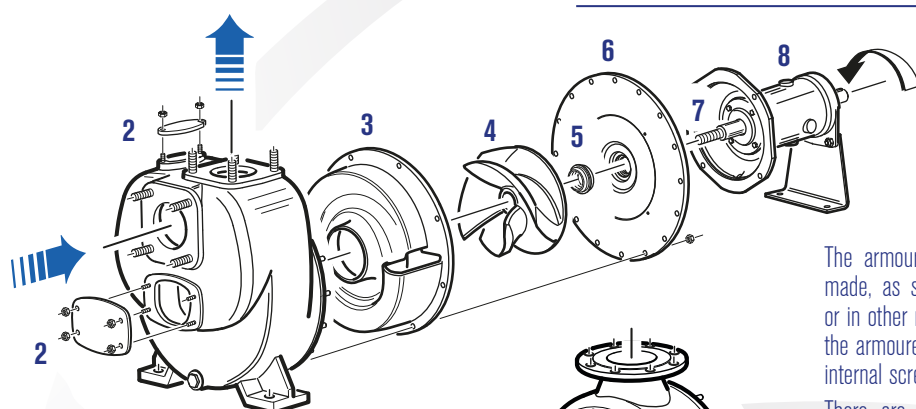
RB216+T	72
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GENERAL INFORMATION



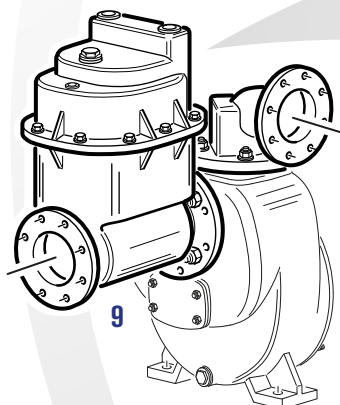
ROBUSTA pump series are centrifugal open impeller type at high hydraulic efficiency, internally armoured to resist pumping abrasive and corrosive slurry or with suspended abrasive material liquids.

The armoured shaped volute placed inside the pump is made, as standard, by a very abrasion resistant material or in other material suitable to the pumped liquid. Moreover the armoured volute is mounted onto the pump without any internal screws.

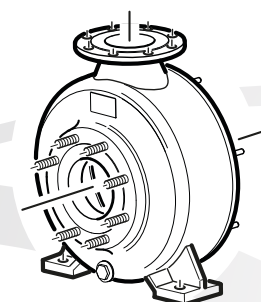
There are many advantages by having an independent armoured volute inside the pump body, such as:

- ✓ the possibility to have several diversified hardness materials where the fluid speed is higher
- ✓ the possibility to have diversified materials of construction within the pump components
- ✓ the positioning of the volute within the pump body is variable according to the series and not fixed
- ✓ there are no screws in the inner pump body
- ✓ the volute replacement is fast and permanent
- ✓ the pump wear and tear are placed between the armoured volute and the impeller only, voiding the pump body
- ✓ a sharpen noise reduction on the impeller.

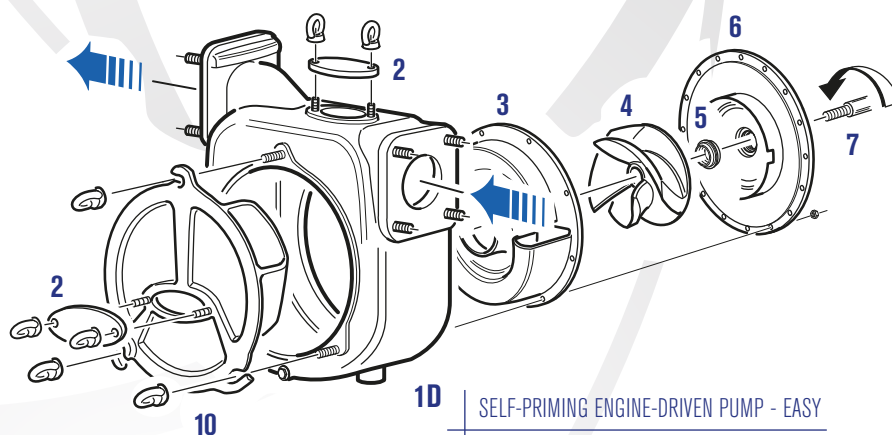
RB SELF-PRIMING PUMP 1A



1C RW VACUUM-ASSISTED PUMP



1B RC CENTRIFUGAL PUMP

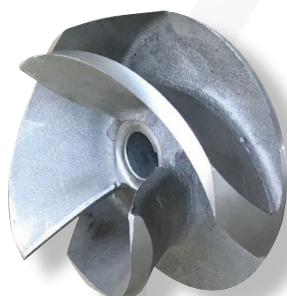


10D SELF-PRIMING ENGINE-DRIVEN PUMP - EASY

- 1A = SELF-PRIMING PUMP BODY - RB
- 1B = CENTRIFUGAL PUMP BODY - RC
- 1C = VACUUM-ASSISTED PUMP BODY - RW
- 1D = SELF-PRIMING ENGINE-DRIVEN PUMP BODY - EASY
- 2 = INSPECTION HATCHES
- 3 = VOLUTE
- 4 = DOUBLE-CURVATURE IMPELLER
- 5 = MECHANICAL SEAL
- 6 = CLOSING BRACKET
- 7 = SHAFT
- 8 = PEDESTAL
- 9 = VACUUM DEVICE
- 10 = INSPECTION WINDOW (EASY)

VERSIONS - MATERIALS - SUITABILITY

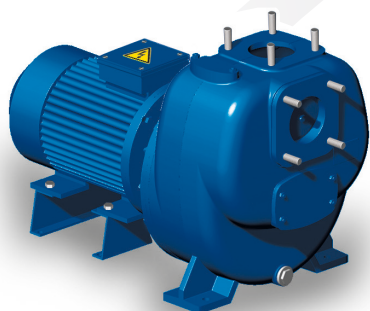
VERSION	MATERIAL OF CONSTRUCTION				SUITABILITY
CODE	CASING	VOLUTE	IMPELLER	SHAFT	
G	Cast iron	Nodular cast iron	Nodular cast iron	Steel	STANDARD APPLICATIONS: brackish water, sandy, slurry waters. Hardness of pump components in contact with water = 200 HB
H	Cast iron	Hardened nodular cast iron	Hardened nodular cast iron	Steel	HEAVY DUTY MARINE APPLICATIONS: slurry water, heavy abrasive liquids. Hardness of pump components in contact with water = 400 HB
Q	Grey cast iron with anodes protections	Bronze	Bronze	Stainless steel	BRACKISH WATERS APPLICATION: brackish water, marine, naval applications.
B	Bronzo	Bronze	Bronze	Stainless steel	HEAVY DUTY MARINE APPLICATIONS: marine water, naval applications.
F	Cast iron	Stainless steel	Stainless steel	Stainless steel	LOWER AGGRESSIVE FLUIDS APPLICATION: light acids, corrosive.
K	Stainless steel	Stainless steel	Stainless steel	Stainless steel	VERY AGGRESSIVE FLUIDS APPLICATION: heavy acids, chemical.
A	Anticorodal Aluminium	Self-Tempering Aluminium	Self-Tempering Aluminium	Steel	LIGHT WEIGHT EMERGENCY APPLICATION: lurry waters, sewage, sludge.



MATERIAL	EN - UNI - ISO NORMS	BRINELL HARDNESS
Cast Iron	EN GJL 250 - UNI EN 1563	150 HB
Nodular cast iron	EN GJS 400 - UNI EN 1563	200 HB
Hardened nodular cast iron	EN GJN-HV600 (XCr18) - UNI EN 12513	400 HB
Steel	C40 - UNI EN 10083	180 HB
Stainless steel	1.4401 - UNI EN10027-2 (AISI 316)	150 HB
Anticorodal Aluminium	GAISI9Cu1Mg - UNI EN 1676 e 1706	80 HB
Self-Tempering Aluminium	GalZn10Si8Mg - ISO3522-81	120 HB
Bronze	B10 - CuSn5Zn5Pb5 - UNI EN 1982	80 HB

ELECTRIC PUMPS

ROBUSTA
Hydraulic System



CENTRIFUGAL SELF-PRIMING PUMPS

RB series

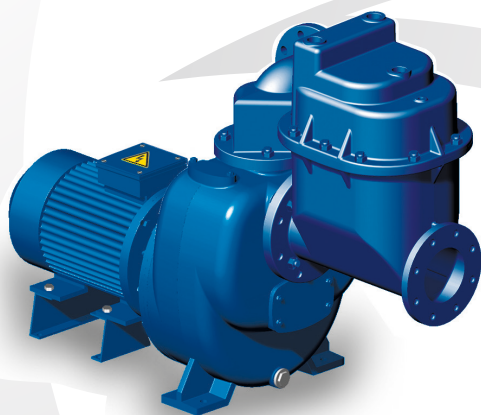
For industrial applications.

Its particular pump body's shape allows the self-priming without the need to fill in the suction pipe and without the installation of the foot valve.

The self-priming is quick and reliable in any applications, thanks to the peculiar position and interaction of the Volute with the pump body.

Available with base-frame or monobloc coupled to electric normalized motor.

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VACUUM-ASSISTED

RW series

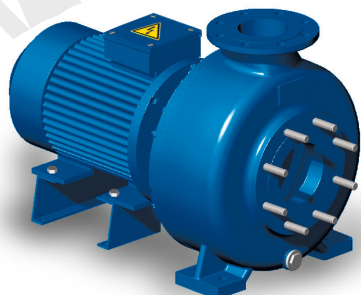
For building applications, drainage (wellpoint).

A vacuum pump is incorporated to the self-priming pump, which device, automatically separate and take out the air coming from the suction.

Suitable for dewatering having long suction pipes installations or in wellpoints groundworks (water lowering).

Priming is completely automatic avoiding the need to add water (dry-prime) and can operate even in dry conditions (dry-run).

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CENTRIFUGAL PUMPS

RC series

For industrial applications.

It is centrifugal with flanged inlet and outlet, available with shaft coupling or monobloc driven by electric motor.

Such pumps are suitable for industrial application, to pump slurry or liquids containing abrasive suspended materials.

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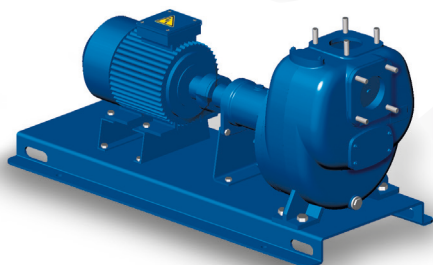
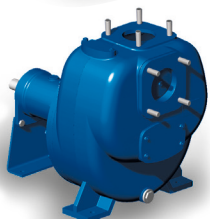
ELECTRIC PUMPS



ROBUSTA
Hydraulic System

PUMP SET UP

RB / RW series



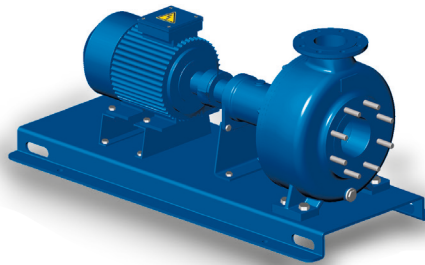
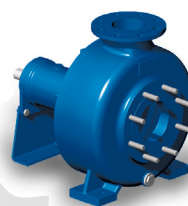
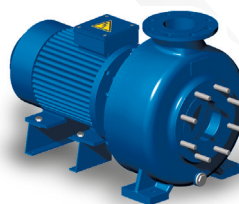
T
MONOBLOC

S
BARE SHAFT
PUMP

S/T...
BASE-FRAME
AND COUPLING

ON
TRAILER

RC series



ENGINE DRIVEN PUMPS



ROBUSTA
Hydraulic System



SELF-PRIMING light series **EASY**

RB series

In case of emergency.

The pump self-priming system is given by air jabbering in the pump body and, thanks to the particular casing interaction with the volute, it is quick and reliable.

Pump standard construction is anticorodal aluminium which is suitable for marine applications, the pump Volute and impeller are in abrasion resistant tempered aluminium.

Great inspection and cleaning window, openable without using any tools and disconnecting the pipelines.

The internal Volute is easily replaceable.

Pump on tubular frame with patrol engine.



SELF-PRIMING on LIGHT TRAILER

RB series

For construction or continuous works.

Its particular pump body's design allows the self-priming without the need for pre-filling of liquid in the pipes and avoiding the need of a foot valve installation.

The pump self-priming system is given by air jabbering in the pump body and, thanks to the particular casing interaction with the Volute, it is quick and reliable.

It comes as standard with diesel engine motor widely oversized, on light manual driven trailer (+T).



SELF-PRIMING on HEAVY TRAILER

RB series

For construction or continuous works.

Its particular pump body's design allows the self-priming without the need for pre-filling of liquid in the pipes and avoiding the need of a foot valve installation.

The pump self-priming system is given by air jabbering in the pump body and, thanks to the particular casing interaction with the Volute, it is quick and reliable.

It comes as standard with diesel engine motor widely oversized, on heavy type trailer (+TT), light manual driven trailer, with built-in tank.

ENGINE DRIVEN PUMPS



ROBUSTA
Hydraulic System



SELF-PRIMING on HEAVY DUTY TRAILER

RW series

For deep and long suction needs.

A vacuum pump is incorporated to the self-priming pump, which device, automatically separate and take out the air coming from the suction.

The main application suitability is found in case of long suction pipes installations or in wellpoints groundworks (water lowering).

It comes with heavy type (+TT), low speed trailer, with built-in tank.



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on ROAD APPROVED TRAILER

It can be set up on road approved trailer, open to traffic.

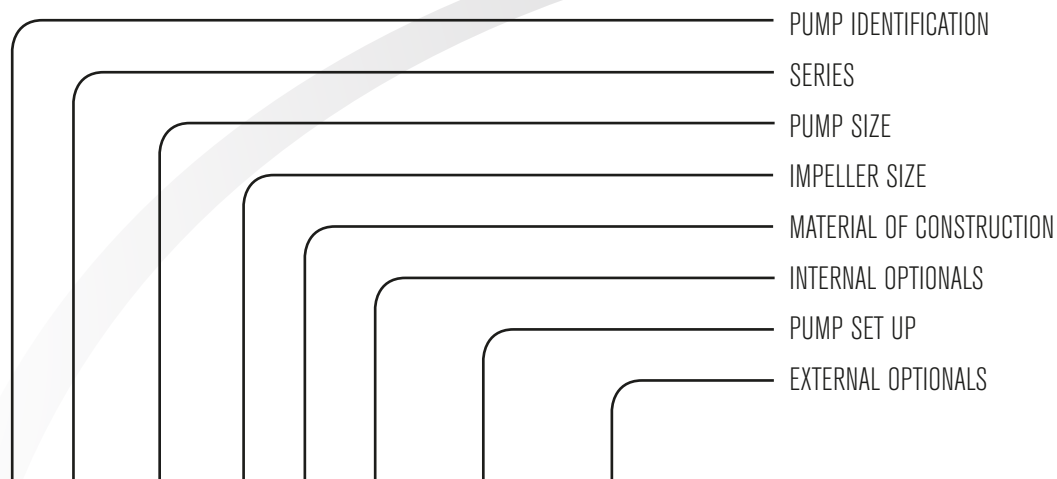
It can operate directly from trailer.

Equipped with stationary feet, spare tire and wide opening for accessories transport.

On demand we can supply:

- spotlight
- battery charger
- curtainsidering of the trailer.

PRODUCT NOMENCLATURE DESCRIPTION



R B 416 A A (L) KH44 (+G)

PUMP IDENTIFICATION:



SERIES:

- B** = Self-priming
- C** = Centrifugal
- W** = Vacuum-assisted

PUMP SIZE:

- 4 16** = Delivery pump outlet 4" and nominal impeller diameter 160 mm

IMPELLER SIZE:

- A** = Greater Impeller size
- B** = Reduced impeller size
- O** = Full size impeller diameter

MATERIAL OF CONSTRUCTION:

- A** = Aluminium
- B** = Bronze
- F** = Cast Iron body, Stainless steel Volute and shaft
- G** = Cast Iron body
- H** = Cast iron body, internal components with erosion resistance cast iron
- K** = Stainless steel
- Q** = Cast iron body, internal components in marine bronze

INTERNAL OPTIONS:

- E** = Stainless Steel impeller
- K** = Stainless Steel shaft
- L** = in-line outlet/inlet ports

PUMP SET UP:

- xx##** = Monobloc pump with endothermic motor
- D, D4, D6** = Monobloc with electric three-phase explosion proof motor / ATEX
- M** = Monobloc with electric single-phase standard motor
- ##K** = Kit pump to normalized electric motor assembly B3-B5
- ##D** = Kit pump to diesel engine motor assembly
- O** = Set up for hydraulic motor assembly
- S, S4, S6** = Bare shaft pump with support
- /** = Coupling to elastic joint on support (+ motor nomenclature)
- T, T4, T6** = Monobloc pump with electric three-phase standard motor
- T##** = Monobloc pump with oversized electric motor power
- [D##]** = Threephase [explosion proof/ATEX] (Check electric motor datasheet)

EXTERNAL OPTIONS:

- +B** = On basic base-frame
- +BE** = On basic base-frame with electric starter
- +BT** = On base-frame with built in tank
- +D##** = Equipped with oversized vacuum device (## = Nm³/h)
- +G** = On light tubular frame for transport by hand
- +Q** = With control panel
- +SIL** = With soundproof canopy
- +T** = On basic two wheels trailer
- +TE** = On basic two wheels trailer and electric starter
- +TQ** = On trailer with electric control panel
- +TT** = On trailer with built in tank

MOST COMMON ENDOTHERMIC MOTOR CODE CHART

MOTOR	MODEL	FUEL	CODE
FPT	N45MSSX00.50	DIESEL	
FPT	N67MNTX20.00	DIESEL	
FPT	N45MSTX20.50	DIESEL	
Lombardini	15LD350	DIESEL	LD 35
Lombardini	15LD440	DIESEL	LD 44
Lombardini	15LD500	DIESEL	LD 50
Lombardini	25LD330-2	DIESEL	LD 33
Lombardini	25LD425-2	DIESEL	LD 42
Lombardini	12LD477-2	DIESEL	LD 47
Lombardini	9LD625-2	DIESEL	
Lombardini	9LD626-2	DIESEL	LD 62
Lombardini	LDW1404	DIESEL	
Lombardini	LDW1603	DIESEL	
Lombardini-Kohler	CH390	PETROL	
Lombardini-Kohler	CH440	PETROL	KH 44
Yanmar	3TNV88	DIESEL	
Yanmar	4TNV88	DIESEL	
Yanmar	4TNV98T	DIESEL	
Yanmar	4TNV98NS*	DIESEL	

* Stage 2 Motor, not allowed for UE markets

ELECTRIC MOTORS CODE CHART

POWER		CODE			
KW	HP	2 POLES	4 POLES	6 POLES	8 POLES
0.37	0.5	031	03	04	-
0.55	0.75	05	06	07	-
0.75	1	08	09	10	101
1.1	1.5	11	12	13	14
1.5	2	15	16	17	18
2.2	3	22	24	26	28
3	4	32	34	36	38
4	5	42	44	46	48
5.5	7.5	52	54	56	-
7.5	10	72	74	76	-
9	12	92	94	96	-
11	15	112	114	116	-
15	20	152	154	156	-
18.5	25	182	184	186	-
22	30	222	224	226	-
30	40	302	304	306	-
37	50	372	374	376	-
45	60	452	454	456	-
55	75	552	554	556	-
75	100	752	754	756	-

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB



SELECTION

TYPE	CODE	PORTS	POWER	FLOW m³/h													
2900 RPM		mm	kW	MANOMETRIC HEAD m	10	20	30	45	50	60	80	90	100	120	150	180	
RB216	RB216B...	50	3.0		24	21	15	3									
	RB216A...		4.0		30	27	21	9									
RB220	RB220B...		5.5		35	33	31	20	14								
	RB220A...		7.5		45	44	42	33	28								
RB316	RB316B...	80	4.0			20	19	16	15	12	7	4					
	RB316A...		5.5			23	22	19	18	16	10	7					
	RB316O...		7.5			28	27	24	23	21	15	12					
RB320	RB320B...		7.5				24	22	22	21	17	15	13	8			
	RB320A...		9.0				29	28	27	26	23	21	19	14			
	RB320O...		11.0				35	34	34	33	30	28	27	23			
RB325	RB325B...		15.0				42	40	39	38	33	31	28	23			
	RB325A...		18.5				49	47	46	44	40	37	35	29			
	RB325O...		22.0				55	53	52	50	45	43	40	35			
RB416	RB416A...	100	11.0							27	25	24	22	20	14	7	
RB425	RB425B...		22.0							47	44	42	40	36	29	20	
	RB425A...		30.0							57	55	53	51	47	40	33	
	RB425O...		37.0							61	58	56	54	50	43	35	

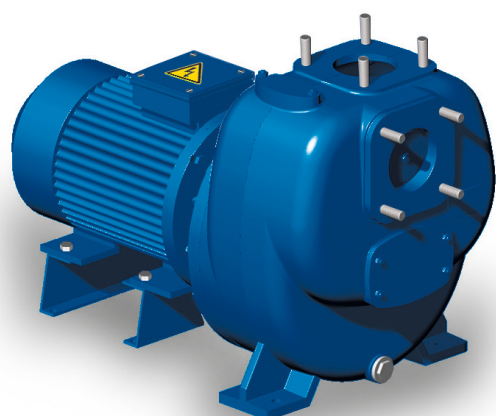
TYPE	CODE	PORTS	POWER	FLOW m³/h													
1450 RPM		mm	kW	MANOMETRIC HEAD m	20	40	60	80	100	120	150	180	200	250	300	350	
RB325	RB325B...4	80	4.0		14	13	11	9	5	2							
	RB325A...4		5.5		19	18	16	14	11	8							
RB425	RB425B...4	100	5.5				14	12	10	8	5						
	RB425A...4		7.5				18	17	15	13	9	5					
RB431	RB431B...4		11.0				23	22	20	19	16	12	9				
	RB431A...4		15.0				29	28	26	24	21	18	15				
RB625	RB625B...4	150	9.0						15	14	13	11	10	7	4		
	RB625A...4		11.0						17	16	15	14	13	11	8	5	
						200	300	400	500	550	600	700	800	900	1000	1100	1200
RB831	RB831B...4	200	22		18	15	11	6	4								
	RB831A...4		30		22	19	15	11	8								
	RB831O...4		37		25	22	18	13	11								
RB1031	RB1031B...4	250	30			19	16	12	10	8	4						
	RB1031A...4		37			21	19	15	14	12	8						

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB

ROBUSTA
Hydraulic System

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TECHNICAL DATA

CODE	PORTS	RPM	MAX. SOLID	Ø IMPELLER	Ø SEAL	POWER	VOLT	NOMIN. CURRENT	
	mm	rpm	mm	mm	mm	kW	V	A	
RB216B..	50	2900	25x22	140	25	3.0	400	5.1	
RB216A..				158		4.0		8.1	
RB220B..			40x30	175		5.5		10.5	
RB220A..				196		7.5		14.3	
RB316B..	80		35x25	138	32	4.0		8.1	
RB316A..				146		5.5		10.5	
RB316Q..				160		7.5		14.3	
RB320B..			40x35	162		7.5		14.3	
RB320A..				178		9.0		18	
RB320Q..			30x15	188	45	11.0 ⁽¹⁾		21.9	
RB325B..				216		15.0		28.1	
RB325A..				230		18.5		35	
RB325Q..	100		50x30	246	35	22.0		41	
RB416A..				220		22.0		41	
RB425B..			50x24	240	45	30.0		55	
RB425A..				250		37.0		67	
RB425Q..	80	1450	40x15	218	32	4.0	400	8.1	
RB325B..4				250		5.5		11.2	
RB325A..4			55x50	225		5.5		11.2	
RB425B..4				250		7.5		15.3	
RB425A..4	100		50x50	280	45	11.0		22	
RB431B..4				313		15.0		29	
RB431A..4			73x50	230	55	9.0		18	
RB625B..4				250		11.0		22	
RB625A..4	150		75x58	270		22.0		40	
RB831B..4				300		30.0		57	
RB831A..4			85x85	315	55	37.0		70	
RB831Q..4				275		30.0		57	
RB1031B..4	250			300		37.0		70	
RB1031A..4									

(1) Motor casing is in special size 132C

(2) Motor with flange B3/B14

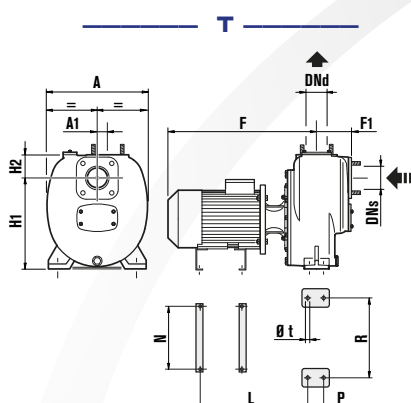
SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB

ROBUSTA
Hydraulic System

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OVERALL DIMENSIONS

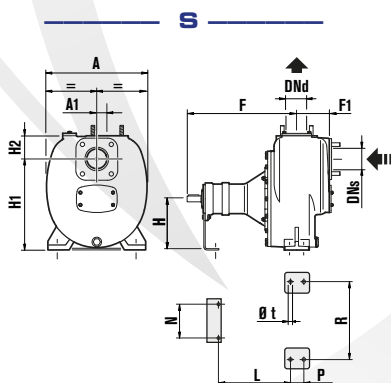


T = MONOBLOC

DIMENSIONS mm	DNs	DNd	A	A1	F	F1	H1	H2	L	N	P	R	Ø t
RB216AGT	50	50	287	55	472	103	265	78	307	250	90	212	14
RB216BGT	50	50	287	55	463	103	265	78	300	250	90	212	14
RB220AGT	50	50	314	60	600	101	279	71	461	250	70	200	14
RB220BGT	50	50	314	60	600	101	279	71	423	250	70	200	14
RB316AGT	80	80	350	80	564	156	319	109	422	250		260	18
RB316BGT	80	80	350	80	520	156	319	109	403	250		260	18
RB316OGT	80	80	350	80	564	156	319	109	422	250		260	18
RB320AGT	80	80	347	65	570	163	326	104	400	250	112	280	14
RB320BGT	80	80	347	65	570	163	326	100	400	250	112	280	14
RB320OGT	80	80	347	65	634	163	326	104	400	250	112	280	14
RB325BGT	80	80	437	65	535	163	405	100	353	270	112	320	14
RB325AGT ¹	80	80	437	65	579	163	405	100	372	270	112	320	14
RB325BGT ¹	80	80	437	65	535	163	405	100	353	270	112	320	14
RB416AGT	125	100	334	45	727	86	181	227	358	254		201	13
RB425AGT ¹	100	100	442	46	652	153	400	102	476	270	56	350	16
RB425BGT ¹	100	100	442	46	612	153	400	102	476	270	56	350	16
RB431A / B GT4	100	100	582	130	850	169	510	105	597	320	102	468	18
RB625AGT4	150	150	512	70	829	188	450	131	612	320	50	360	18

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

¹ (1450 RPM)



S = BARE SHAFT PUMP

DIMENSIONS mm	DNs	DNd	A	A1	F	F1	H	H1	H2	L	N	P	R	Ø t
RB216A / B GS	50	50	287	55	339	103	150	265	78	181	103	90	212	14
RB220A / B GS	50	50	314	60	473	101	160	279	71	321	152	70	200	14
RB316A / B GS	80	80	350	80	437	156	170	319	109	320	152		260	18
RB320A / B / O GS	80	80	347	65	443	163	180	326	104	261	152	112	280	14
RB325A / B / O GS	80	80	437	65	532	163	225	405	100	317	202	112	320	14
RB325A / B GS4 ¹	80	80	437	65	451	163	225	405	100	270	154	112	320	14
RB425A / B / O GS	100	100	442	46	562	103	225	400	102	384	202	56	350	16
RB425A / B / O GS4 ¹	100	100	442	46	481	153	225	400	102	336	154	56	350	16
RB431A / B GS4	100	100	582	130	610	169	300	510	105	392	203	102	468	18
RB625A / B GS4	150	150	512	70	631	188	260	450	131	451	203	50	360	18
RB831A / B / O GS4	200	200	690	137	749	255	370	550	180	456	240	140	410	20
RB1031A / B GS4	250	250	792	240	749	370	370	630	230	595	240		440	22

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

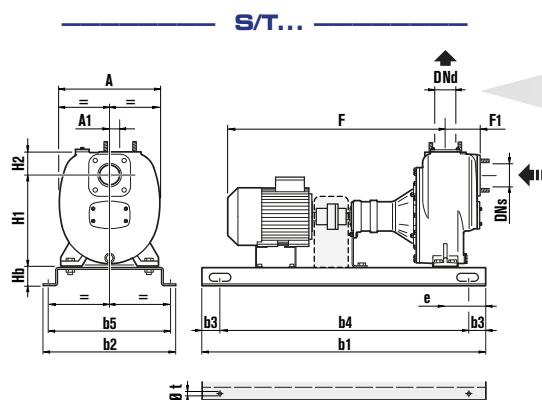
¹ (1450 RPM)

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



S/T... = BASE-FRAME AND COUPLING

DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H1	H2	Hb	Ø t
RB216AGS/T42	50	50	287	55	800	360	130	540	320	70	339	103	265	78	60	17
RB216BGS/T32	65	50	287	55	800	360	130	540	320	70	339	103	265	78	60	17
RB220AGS/T72	50	50	314	60	1000	450	170	660	400	60	473	101	279	71	80	17
RB220BGS/T52	50	50	314	60	1000	450	170	660	400	60	473	101	279	71	80	17
RB316AGS/T52	80	80	350	80	1000	450	170	660	400	75	437	156	319	109	80	17
RB316BGS/T42	80	80	350	80	1000	450	170	660	400	75	437	156	319	109	80	17
RB316OGS/T72	80	80	350	80	1000	450	170	660	400	75	437	156	319	109	80	17
RB320AGS/T92	80	80	347	65	1120	490	190	740	440	90	443	163	326	104	80	18
RB320BGS/T72	80	80	347	65	1120	490	190	740	440	90	443	163	326	104	80	18
RB320OGS/T112	80	80	347	65	1120	490	190	740	440	90	443	163	326	104	80	18
RB325AGS/T182	80	80	437	65	1120	540	205	840	490	100	532	163	405	100	80	20
RB325BGS/T152	80	80	437	65	1120	540	205	840	490	100	532	163	405	100	80	20
RB325OGS/T222	80	80	437	65	1120	540	205	840	490	100	532	163	405	100	80	20
RB325AGS4/T54 ¹	80	80	437	65	1120	540	205	840	490	100	451	163	405	100	80	20
RB325BGS4/T44 ¹	80	80	437	65	1120	540	205	840	490	100	451	163	405	100	80	20
RB425AGS/T302	100	100	442	46	1250	540	205	840	490	100	562	153	400	102	80	20
RB425BGS/T222	100	100	442	46	1250	540	205	840	490	100	562	153	400	102	80	20
RB425OGS/T372	100	100	442	46	1250	540	205	840	490	100	562	153	400	102	80	20
RB425AGS4/T74 ¹	100	100	442	46	1250	540	205	840	490	100	481	153	400	102	80	20
RB425BGS4/T54 ¹	100	100	442	46	1250	540	205	840	490	100	481	153	400	102	80	20
RB431AGS4/T154	100	100	582	130	1500	720	250	900	680	75	570	169	510	105	55	20
RB431BGS4/T114	100	100	582	130	1500	720	250	900	680	75	570	169	510	105	55	20
RB625AGS4/T114	150	150	512	70	1250	540	205	840	490	90	631	182	450	131	80	20
RB625BGS4/T94	150	150	512	70	1250	540	205	840	490	90	631	182	450	131	80	20
RB831AGS/T304	200	200	690	137	1900	800	200	1300	750	120	749	255	550	180	55	20
RB831BGS/T224	200	200	690	137	1900	800	200	1300	750	120	749	255	550	180	55	20
RB831OGS/T374	200	200	690	137	1900	800	200	1300	750	120	749	255	550	180	55	20
RB1031AGS/T374	250	250	792	240	1900	800	200	1500	750	225	749	370	630	230	55	20
RB1031BGS/T304	250	250	792	240	1900	800	200	1500	750	225	749	370	630	230	55	20

¹ (1450 RPM)

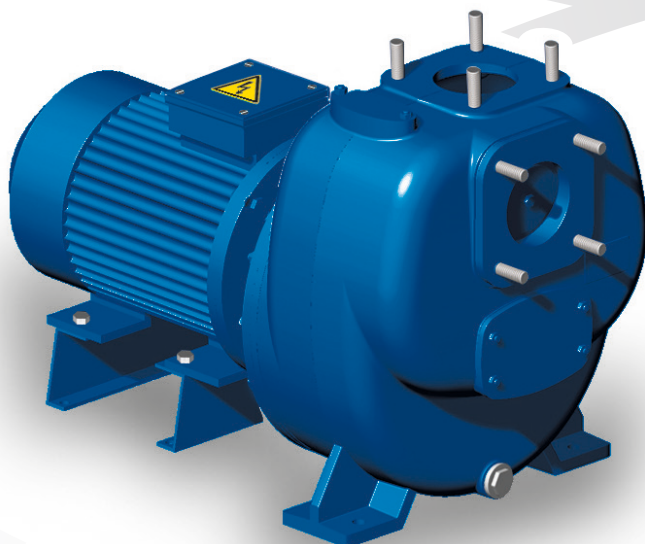
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SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB216

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB216B	RB216A
PUMP		
RPM	2900	2900
P MAX (kW)	3	4
Q MAX (m³/h)	45	45
H MAX (m)	24	30
Ø Inlet/outlet (mm) Inlet / outlet	50 / 50	50 / 50
Ø Impeller (mm) - N. blades	140 - 3	158 - 3
Ø Seal (mm)	25	25
Free solids passage MAX size (mm)	25 x 22	25 x 22

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	100L - 2900 - 2	112M - 2900 - 2
Voltage (V) - Power (kW)	400 - 3	400 - 4
Priming time from 4 m depth (s)	110	90
Nominal Current (A)	5.1	8.1
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

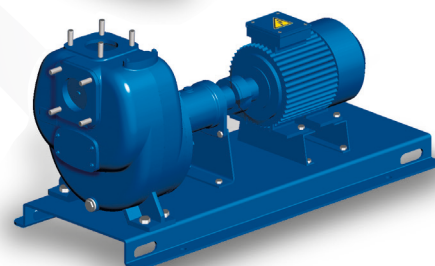
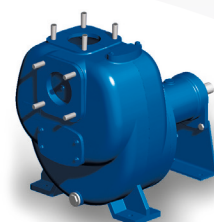
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
T: Monobloc (kg)	55	58
S: Bare shaft pump (kg)	31	31
S/T...: Complete pump assembly (kg)	83	86

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

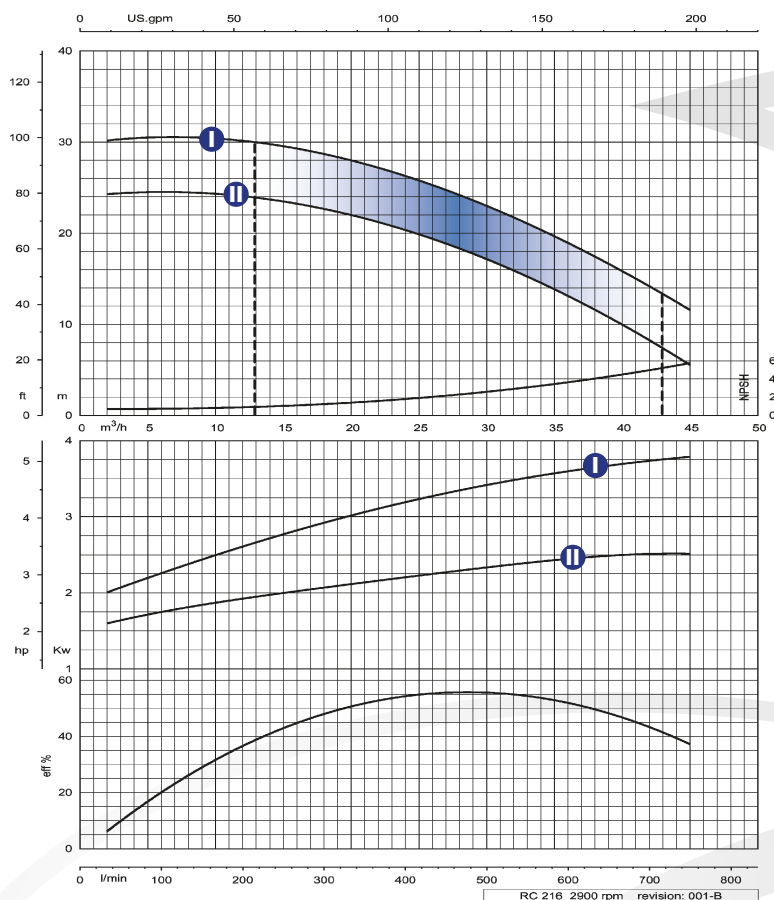


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB216

ROBUSTA
Hydraulic System

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PUMP PERFORMANCE RANGE

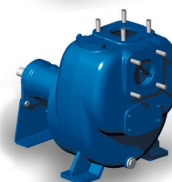
I RB216A

II RB216B

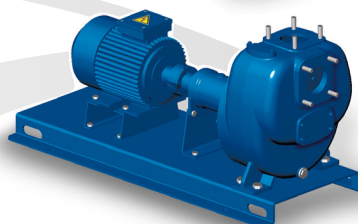
Performances are subjected to variations based on NPSH available.



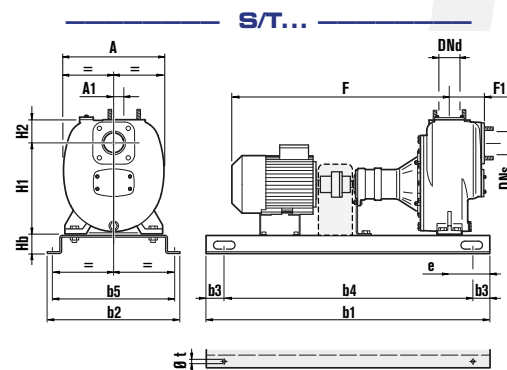
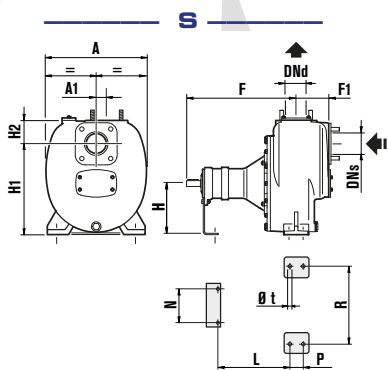
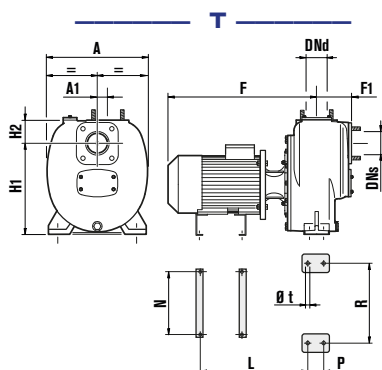
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB216AGT	50	50	287	55							472	103		265	78		307	250	90	212	14
RB216BGT	50	50	287	55							463	103		265	78		300	250	90	212	14
RB216A / B GS	50	50	287	55							339	103	150	265	78		181	103	90	212	14
RB216AGS/T42	50	50	287	55	800	360	130	540	320	70	339	103		265	78	60					17
RB216BGS/T32	65	50	287	55	800	360	130	540	320	70	339	103		265	78	60					17

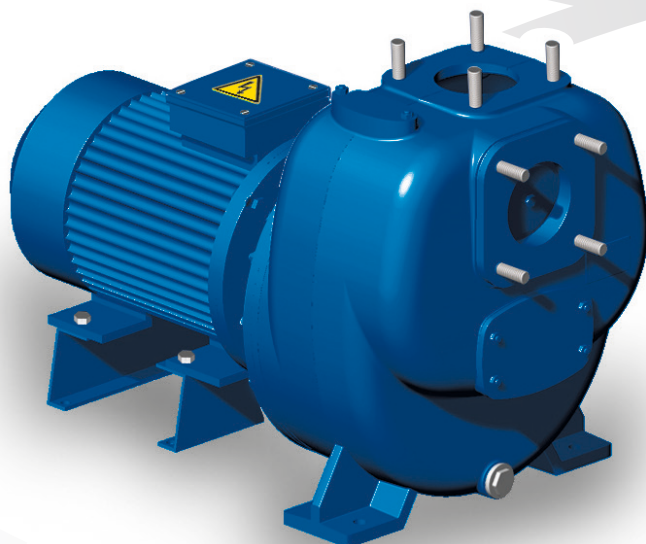
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SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB220

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB220B	RB220A
PUMP		
RPM	2900	2900
P MAX (kW)	5.5	7.5
Q MAX (m³/h)	50	50
H MAX (m)	35	45
Ø Inlet/outlet (mm) Inlet / outlet	50 / 50	50 / 50
Ø Impeller (mm) - N. blades	175 - 2	196 - 2
Ø Seal (mm)	32	32
Free solids passage MAX size (mm)	40 x 30	40 x 30

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132S - 2900 - 2	132S - 2900 - 2
Voltage (V) - Power (kW)	400 - 5.5	400 - 7.5
Priming time from 4 m depth (s)	96	90
Nominal Current (A)	10.5	14.3
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

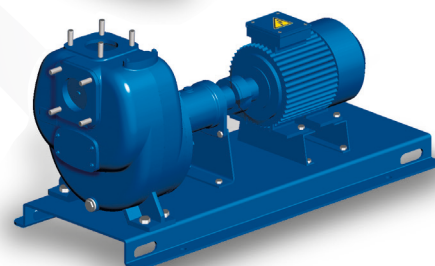
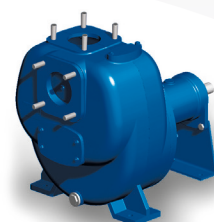
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
T: Monobloc (kg)	82	88
S: Bare shaft pump (kg)	63	63
S/T...: Complete pump assembly (kg)	140	145

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

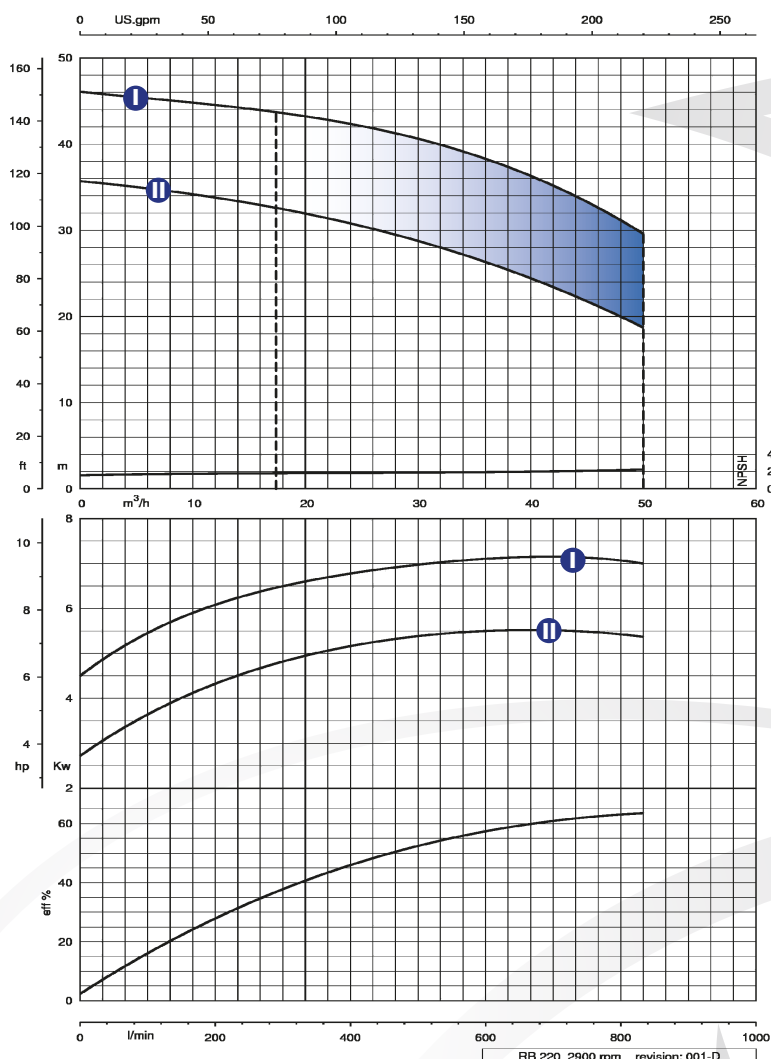


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB220

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

I RB220A

II RB220B

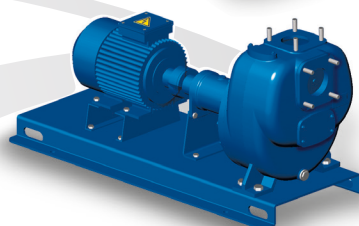
Performances are subjected to variations based on NPSH available.



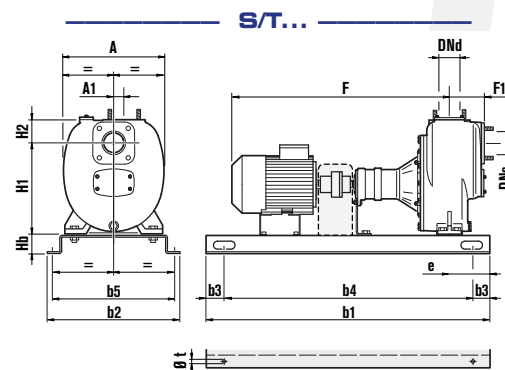
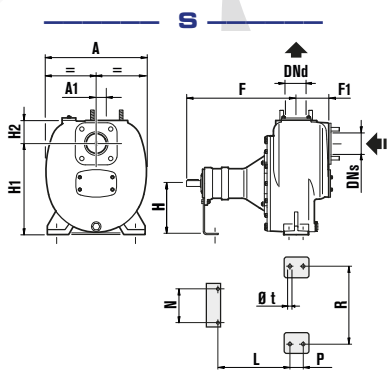
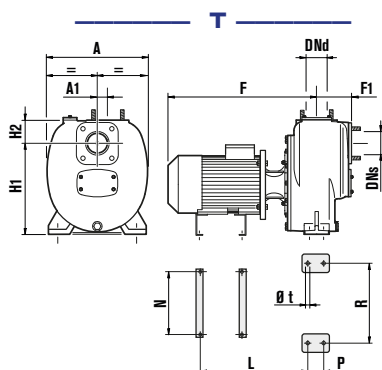
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB220AGT	50	50	314	60							600	101		279	71		461	250	70	200	14
RB220BGT	50	50	314	60							600	101		279	71		423	250	70	200	14
RB220A / B GS	50	50	314	60							473	101	160	279	71		321	152	70	200	14
RB220AGS/T72	50	50	314	60	1000	450	170	660	400	60	473	101		279	71	80					17
RB220BGS/T52	50	50	314	60	1000	450	170	660	400	60	473	101		279	71	80					17

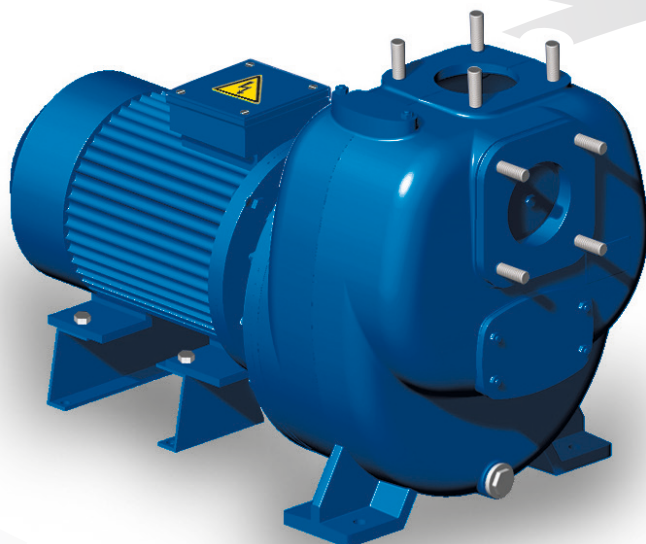
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SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB316

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB316B	RB316A	RB316O
PUMP			
RPM	2900	2900	2900
P MAX (kW)	4	5.5	7.5
Q MAX (m³/h)	90	90	90
H MAX (m)	20	24	28
Ø Inlet/outlet (mm) Inlet / outlet	80 / 80	80 / 80	80 / 80
Ø Impeller (mm) - N. blades	138 - 3	146 - 3	160 - 3
Ø Seal (mm)	32	32	32
Free solids passage MAX size (mm)	35 x 25	35 x 25	35 x 25

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	112M - 2900 - 2	132S - 2900 - 2	132S - 2900 - 2
Voltage (V) - Power (kW)	400 - 4	400 - 5.5	400 - 7.5
Priming time from 4 m depth (s)	20	18	22
Nominal Current (A)	8.1	10.5	14.3
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

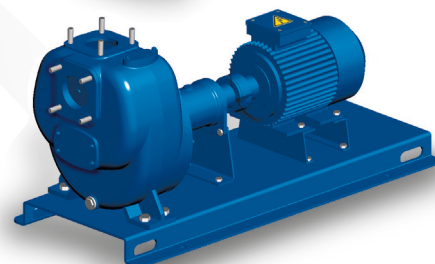
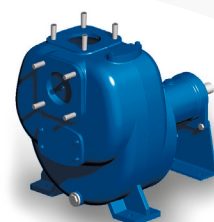
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)			
T: Monobloc (kg)	98	110	115
S: Bare shaft pump (kg)	80	80	80
S/T...: Complete pump assembly (kg)	151	163	168

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

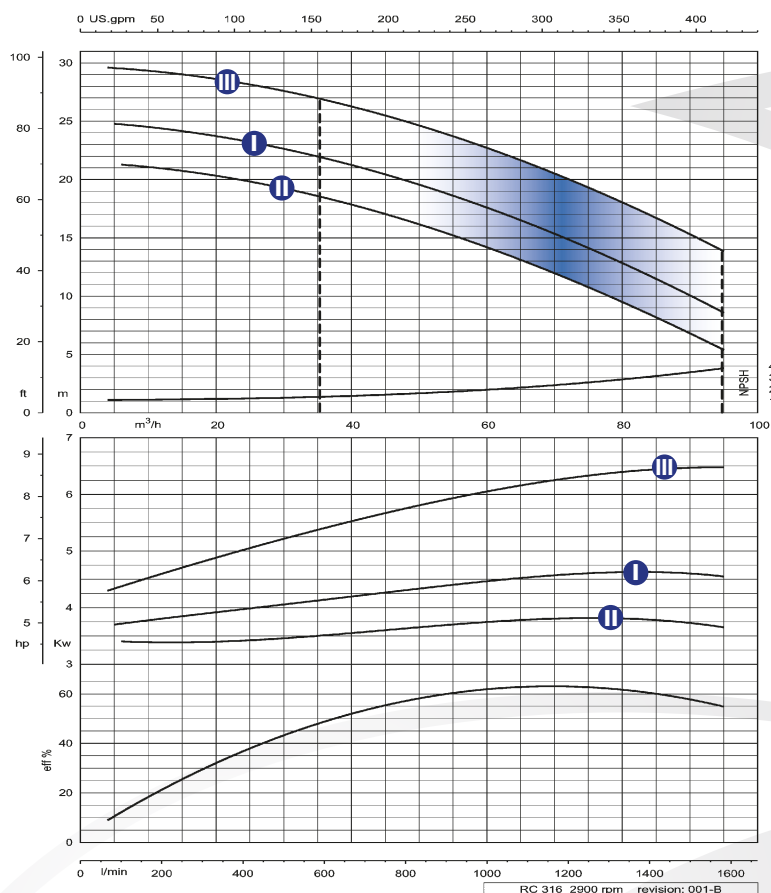


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB316

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

I RB316A

II RB316B

III RB3160

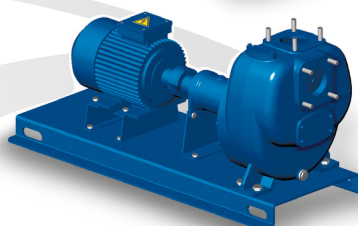
Performances are subjected to variations based on NPSH available.



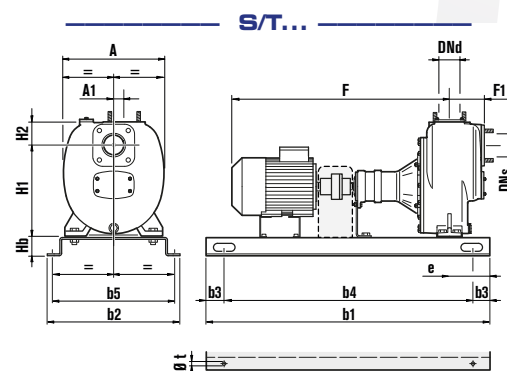
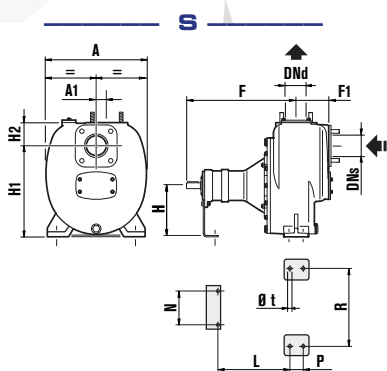
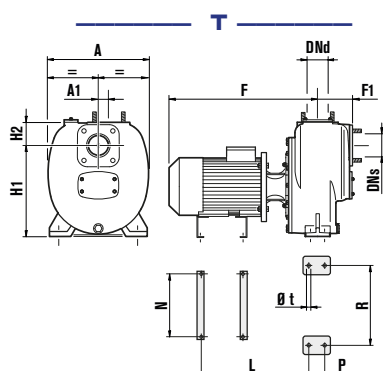
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	t
RB316AGT	80	80	350	80							564	156		319	109		422	250		260	18
RB316BGT	80	80	350	80							520	156		319	109		403	250		260	18
RB3160GT	80	80	350	80							564	156		319	109		422	250		260	18
RB316A / B GS	80	80	350	80							437	156	170	319	109		320	152		260	18
RB316AGS/T52	80	80	350	80	1000	450	170	660	400	75	437	156		319	109	80					17
RB316BGS/T42	80	80	350	80	1000	450	170	660	400	75	437	156		319	109	80					17
RB3160GS/T72	80	80	350	80	1000	450	170	660	400	75	437	156		319	109	80					17

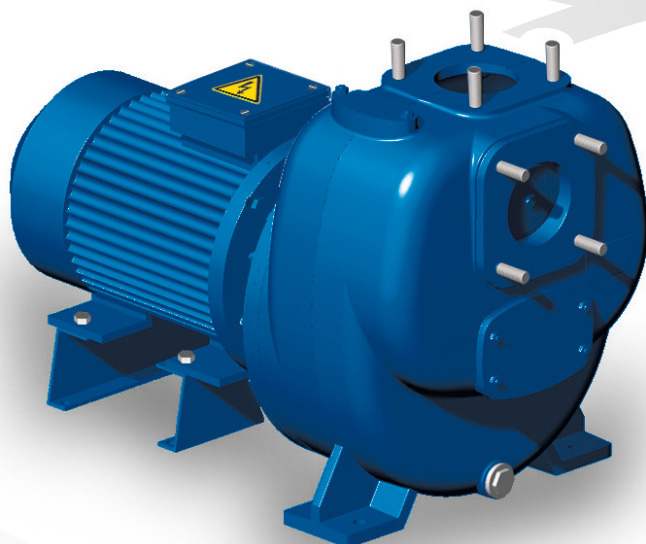
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SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB320

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



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The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB320B	RB320A	RB3200
PUMP			
RPM	2900	2900	2900
P MAX (kW)	7.5	9	11
Q MAX (m³/h)	120	120	120
H MAX (m)	25	32	36
Ø Inlet/outlet (mm) Inlet / outlet	80 / 80	80 / 80	80 / 80
Ø Impeller (mm) - N. blades	162 - 3	178 - 3	188 - 3
Ø Seal (mm)	32	32	32
Free solids passage MAX size (mm)	40 x 35	40 x 35	40 x 35

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132S - 2900 - 2	132M - 2900 - 2	160M - 2900 - 2
Voltage (V) - Power (kW)	400 - 7.5	400 - 9	400 - 11
Priming time from 4 m depth (s)	30	27	33
Nominal Current (A)	14.3	18	21.9
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

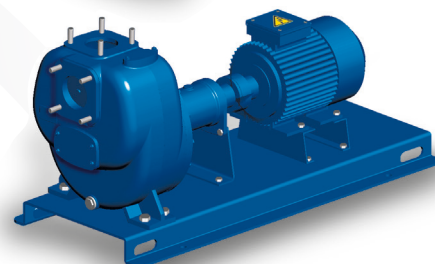
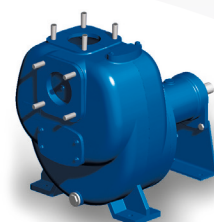
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)			
T: Monobloc (kg)	113	115	130
S: Bare shaft pump (kg)	75	75	75
S/T...: Complete pump assembly (kg)	192	197	250

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

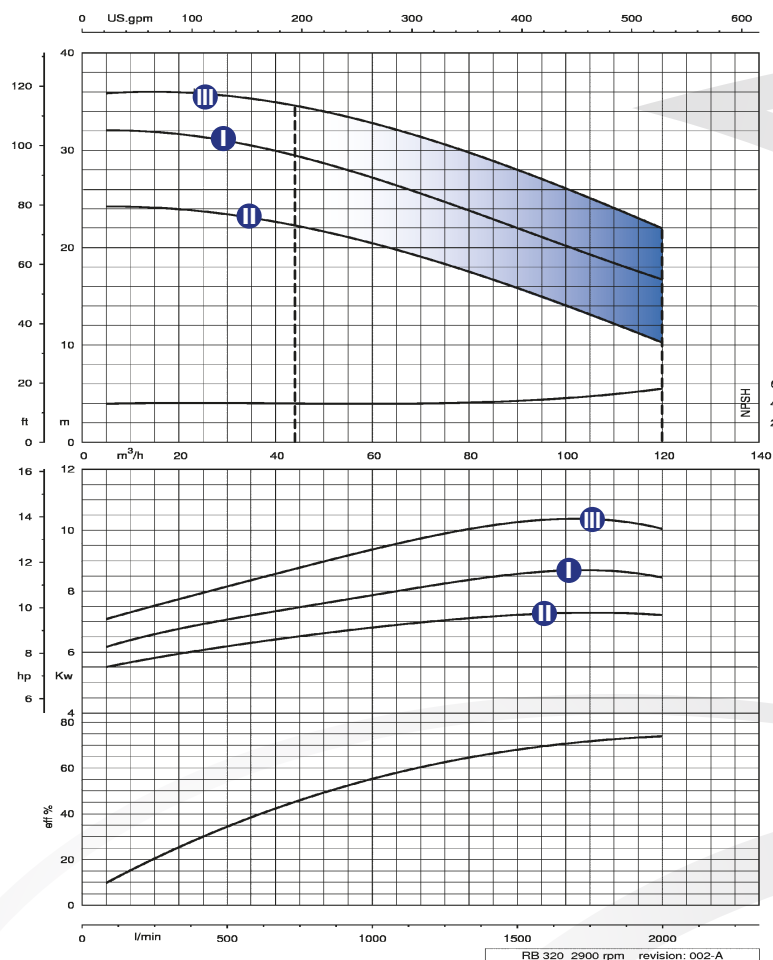


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB320

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

I RB320A

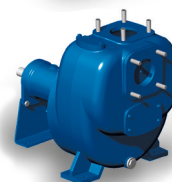
II RB320B

III RB320C

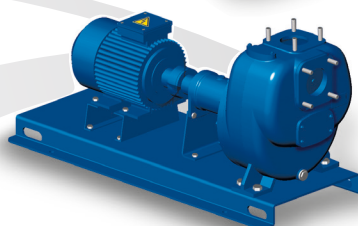
Performances are subjected to variations based on NPSH available.



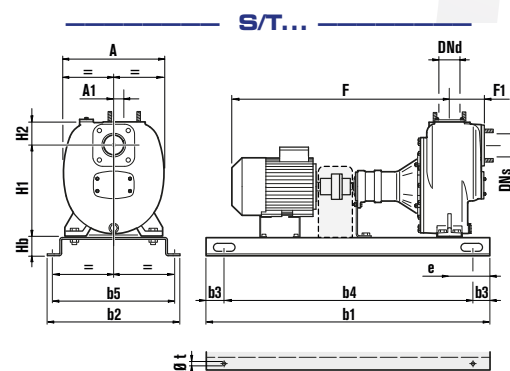
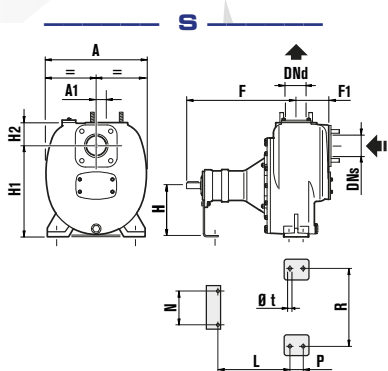
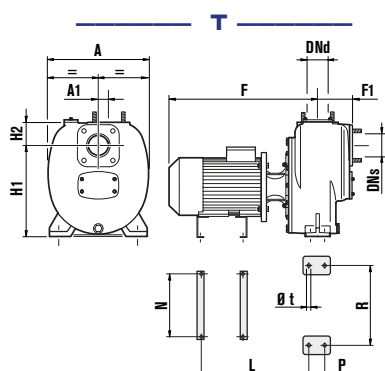
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB320AGT	80	80	347	65							570	163		326	104		400	250	112	280	14
RB320BGT	80	80	347	65							570	163		326	100		400	250	112	280	14
RB320OGT	80	80	347	65							634	163		326	104		400	250	112	280	14
RB320A / B / O GS	80	80	347	65							443	163	180	326	104		261	152	112	280	14
RB320AGS/T92	80	80	347	65	1120	490	190	740	440	90	443	163		326	104	80					18
RB320BGS/T72	80	80	347	65	1120	490	190	740	440	90	443	163		326	104	80					18
RB320OGS/T112	80	80	347	65	1120	490	190	740	440	90	443	163		326	104	80					18

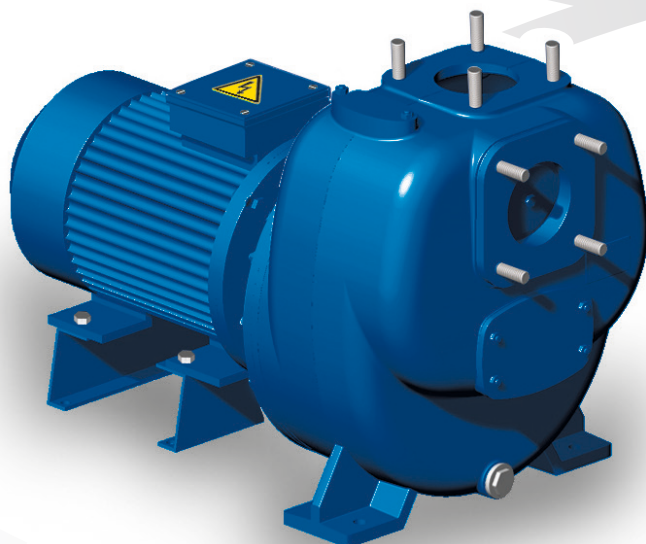
All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB325

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB325B	RB325A	RB3250
PUMP			
RPM	2900	2900	2900
P MAX (kW)	15	18.5	22
Q MAX (m³/h)	120	120	120
H MAX (m)	43	51	56
Ø Inlet/outlet (mm) Inlet / outlet	80 / 80	80 / 80	80 / 80
Ø Impeller (mm) - N. blades	216 - 3	230 - 3	246 - 3
Ø Seal (mm)	45	45	45
Free solids passage MAX size (mm)	30 x 15	30 x 15	30 x 15

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	160M - 2900 - 2	160L - 2900 - 2	180M - 2900 - 2
Voltage (V) - Power (kW)	400 - 15	400 - 18.5	400 - 22
Priming time from 4 m depth (s)	37	30	45
Nominal Current (A)	28.1	35	41
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

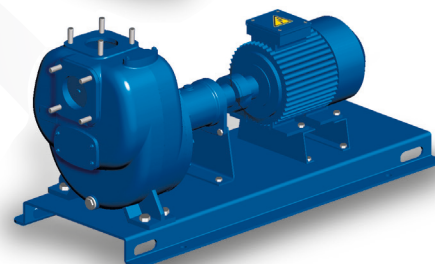
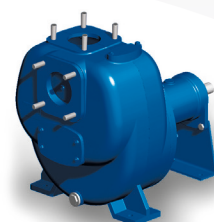
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)			
T: Monobloc (kg)	132		
S: Bare shaft pump (kg)	135	135	135
S/T...: Complete pump assembly (kg)	311	326	356

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

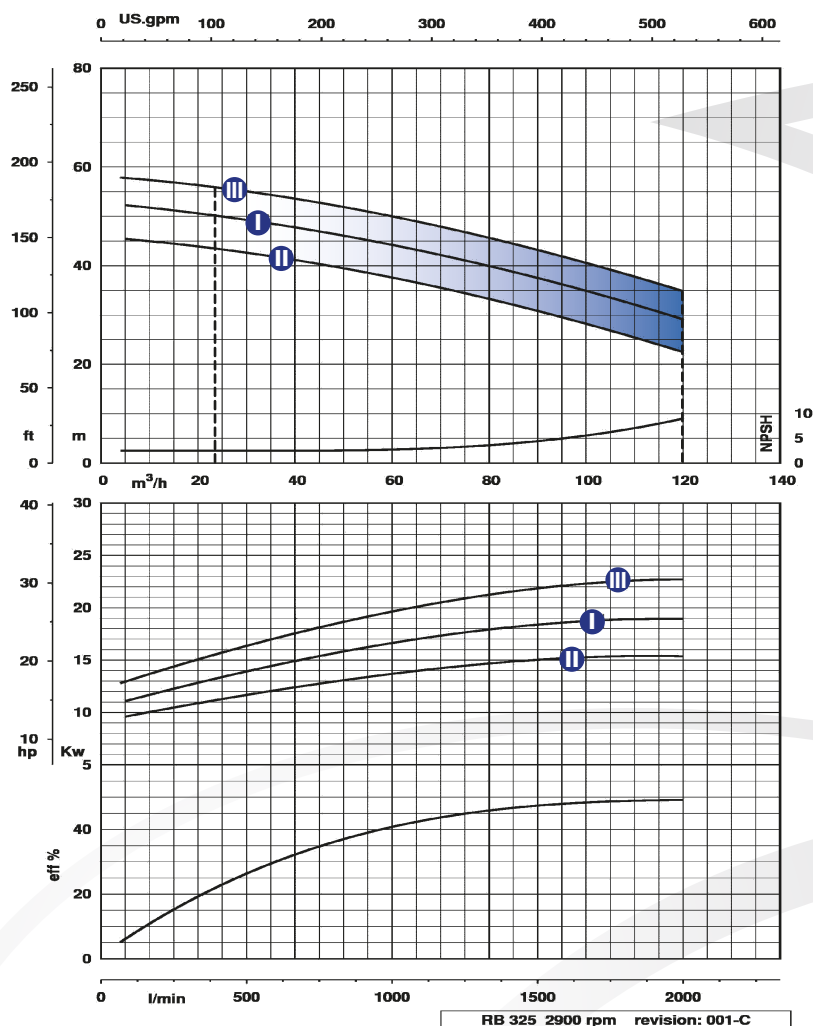


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB325

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

I RB325A

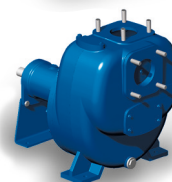
II RB325B

III RB3250

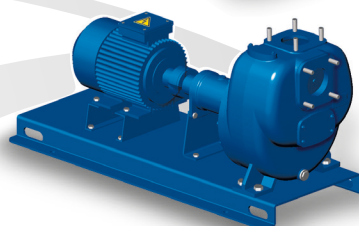
Performances are subjected to variations based on NPSH available.



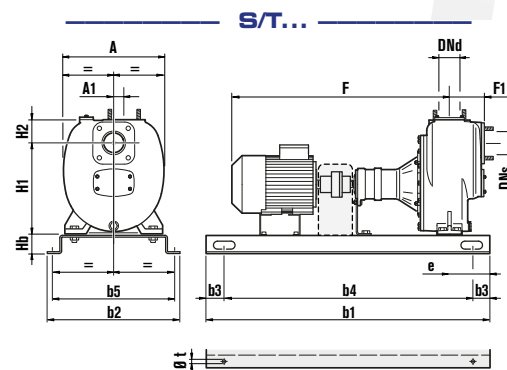
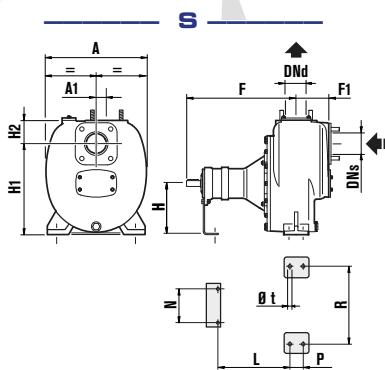
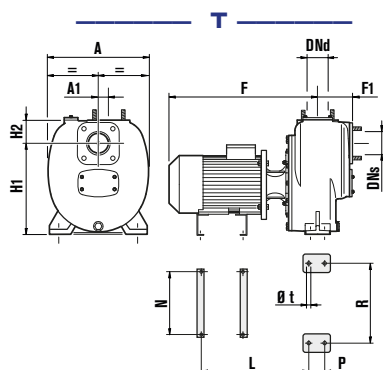
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB325BGT	80	80	437	65							535	163		405	100		353	270	112	320	14
RB325A / B / O GS	80	80	437	65							532	163	225	405	100		317	202	112	320	14
RB325AGS/T182	80	80	437	65	1120	540	205	840	490	100	532	163		405	100	80					20
RB325BGS/T152	80	80	437	65	1120	540	205	840	490	100	532	163		405	100	80					20
RB3250GS/T222	80	80	437	65	1120	540	205	840	490	100	532	163		405	100	80					20

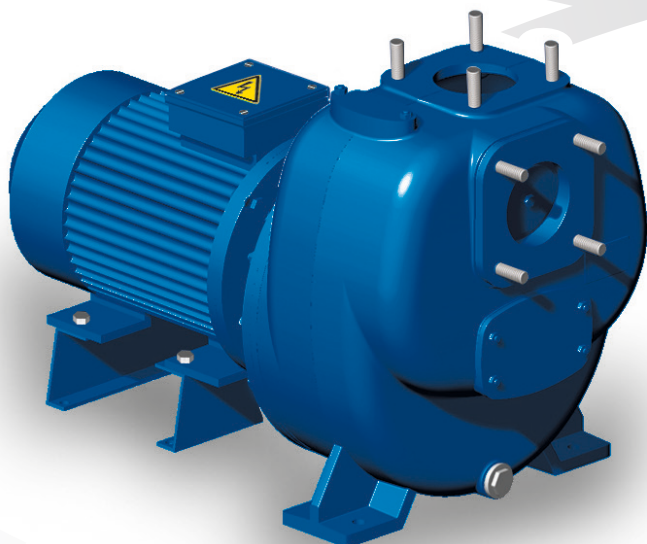
All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB325 L

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB325B L *	RB325A L *
PUMP		
RPM	1450	1450
P MAX (kW)	4	5.5
Q MAX (m³/h)	100	120
H MAX (m)	14	20
Ø Inlet/outlet (mm) Inlet / outlet	80 / 80	80 / 80
Ø Impeller (mm) - N. blades	218 - 3	250 - 3
Ø Seal (mm)	32	32
Free solids passage MAX size (mm)	40 x 15	40 x 15

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	112M - 1450 - 4	132S - 1450 - 4
Voltage (V) - Power (kW)	400 - 4	400 - 5.5
Priming time from 4 m depth (s)	37	45
Nominal Current (A)	8.1	11.2
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

PUMP SET UP AVAILABLE

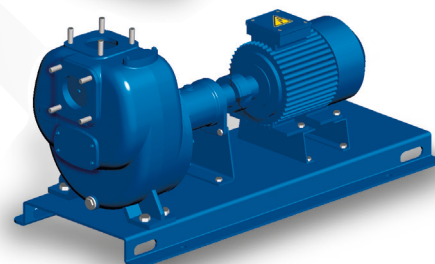
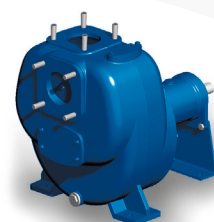
Possible coupling versions (total weight)		
T4: Monobloc (kg)	132	144
S4: Bare shaft pump (kg)	107	107
S4 / T...: Complete pump assembly (kg)	193	210

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

* Low speed version

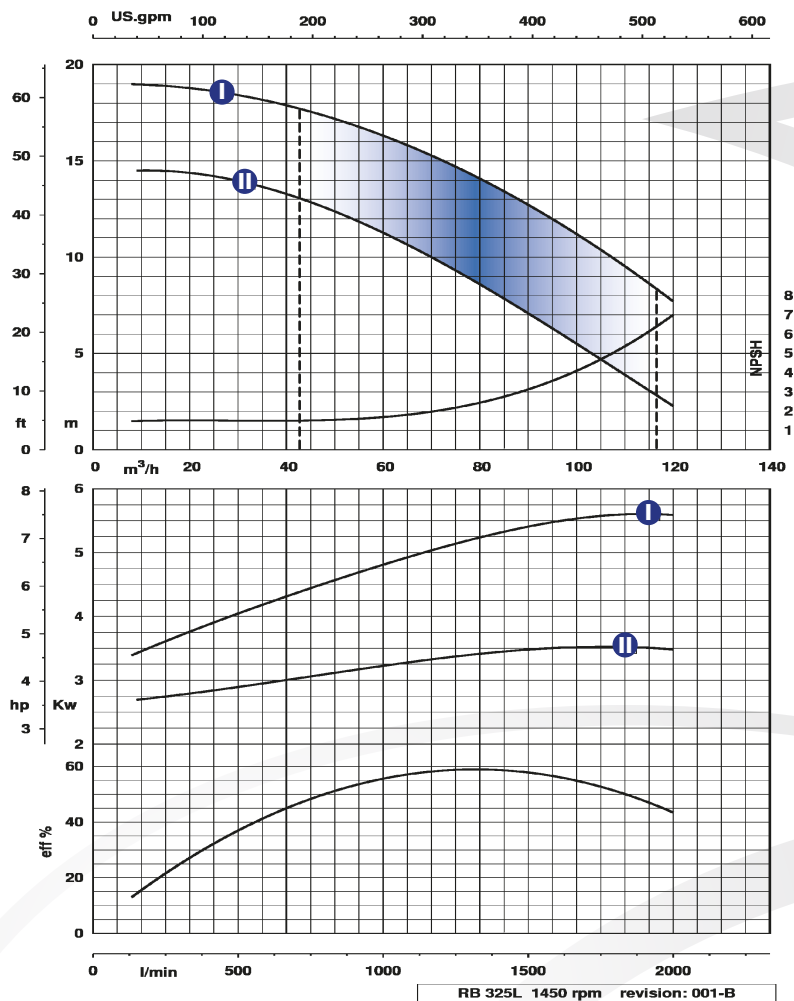


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB325 L

ROBUSTA
Hydraulic System

VIESSE
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PUMP PERFORMANCE RANGE

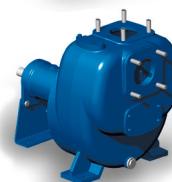
I **RB325A**

II **RB325B**

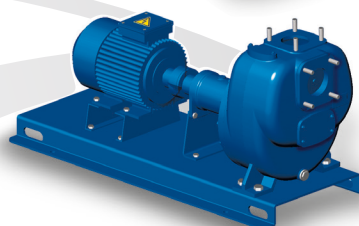
Performances are subjected to variations based on NPSH available.



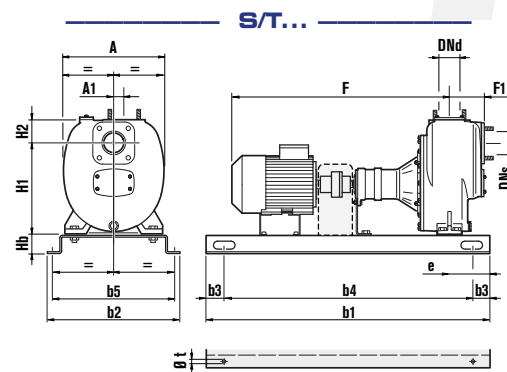
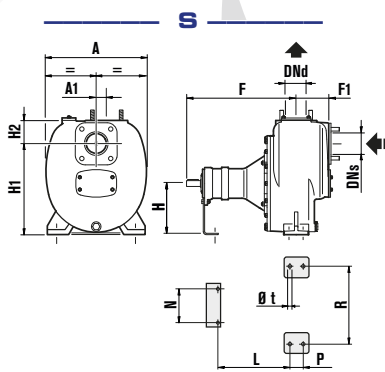
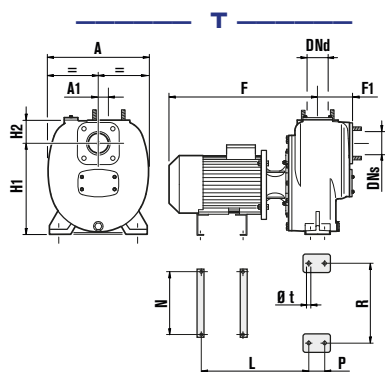
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB325AGT4	80	80	437	65							579	163		405	100		372	270	112	320	14
RB325BGT4	80	80	437	65							535	163		405	100		353	270	112	320	14
RB325A / B GS4	80	80	437	65							451	163	225	405	100		270	154	112	320	14
RB325AGS4/T54	80	80	437	65	1120	540	205	840	490	100	451	163		405	100	80					20
RB325BGS4/T44	80	80	437	65	1120	540	205	840	490	100	451	163		405	100	80					20

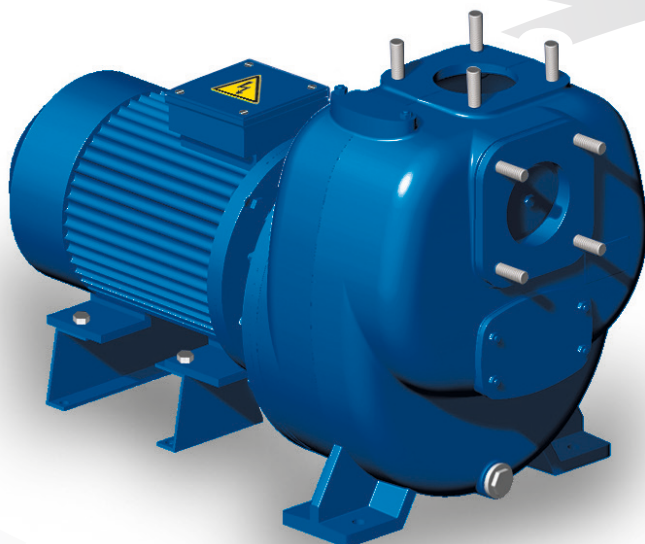
All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB416

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code **RB416A**

PUMP

RPM	2900
P MAX (kW)	11
Q MAX (m³/h)	180
H MAX (m)	27
Ø Inlet/outlet (mm) Inlet / outlet	100 / 100
Ø Impeller (mm) - N. blades	160 - 3
Ø Seal (mm)	35
Free solids passage MAX size (mm)	50 x 30

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	160M - 2900 - 2
Voltage (V) - Power (kW)	400 - 11
Priming time from 4 m depth (s)	25
Nominal Current (A)	21.9
Frequency (Hz)	50
Construction version/position	B3 / B14 (B34)
Protection	IP55

PUMP SET UP AVAILABLE

Possible coupling versions (total weight)	
T: Monobloc (kg)	168

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

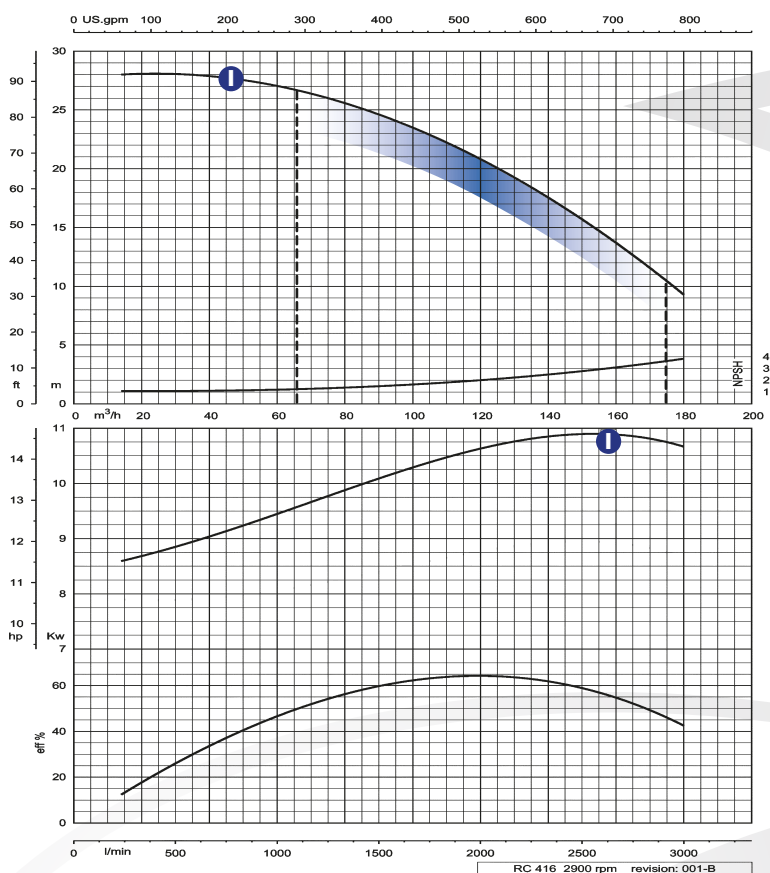


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB416

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



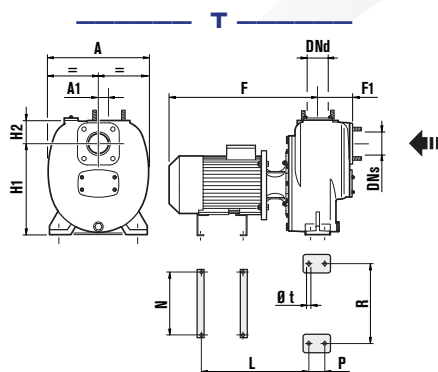
PUMP PERFORMANCE RANGE

I RB416A

Performances are subjected to variations based on NPSH available.



T
MONOBLOC



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB416AGT	125	100	334	45							727	86		181	227		358	254		201	13

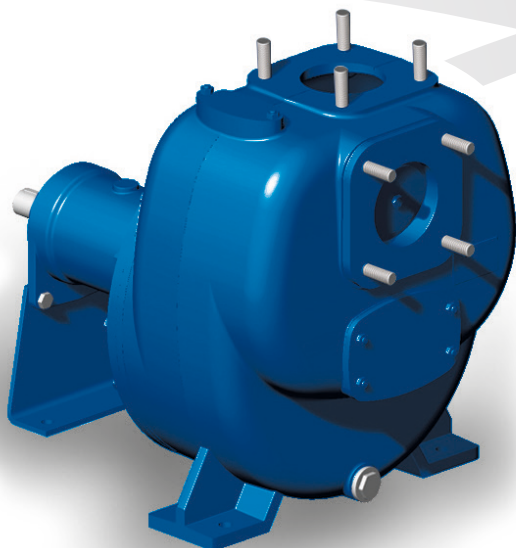
All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB425

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Permanent grease lubricated ball bearings.

VERSIONS

Code	RB425B	RB425A	RB425O
PUMP			
RPM	2900	2900	2900
P MAX (kW)	22	30	37
Q MAX (m³/h)	180	180	180
H MAX (m)	53	62	66
Ø Inlet/outlet (mm) Inlet / outlet	100 / 100	100 / 100	100 / 100
Ø Impeller (mm) - N. blades	220 - 3	240 - 3	250 - 3
Ø Seal (mm)	45	45	45
Free solids passage MAX size (mm)	50 x 24	50 x 24	50 x 24

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	180M - 2900 - 2	200L - 2900 - 2	200L - 2900 - 2
Voltage (V) - Power (kW)	400 - 22	400 - 30	400 - 37
Priming time from 4 m depth (s)	45	40	43
Nominal Current (A)	41	55	67
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

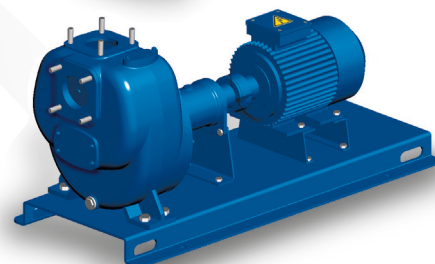
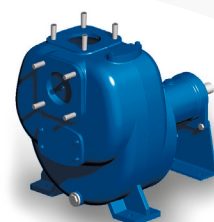
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)			
S: Bare shaft pump (kg)	134	134	134
S/T...: Complete pump assembly (kg)	362	414	440

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

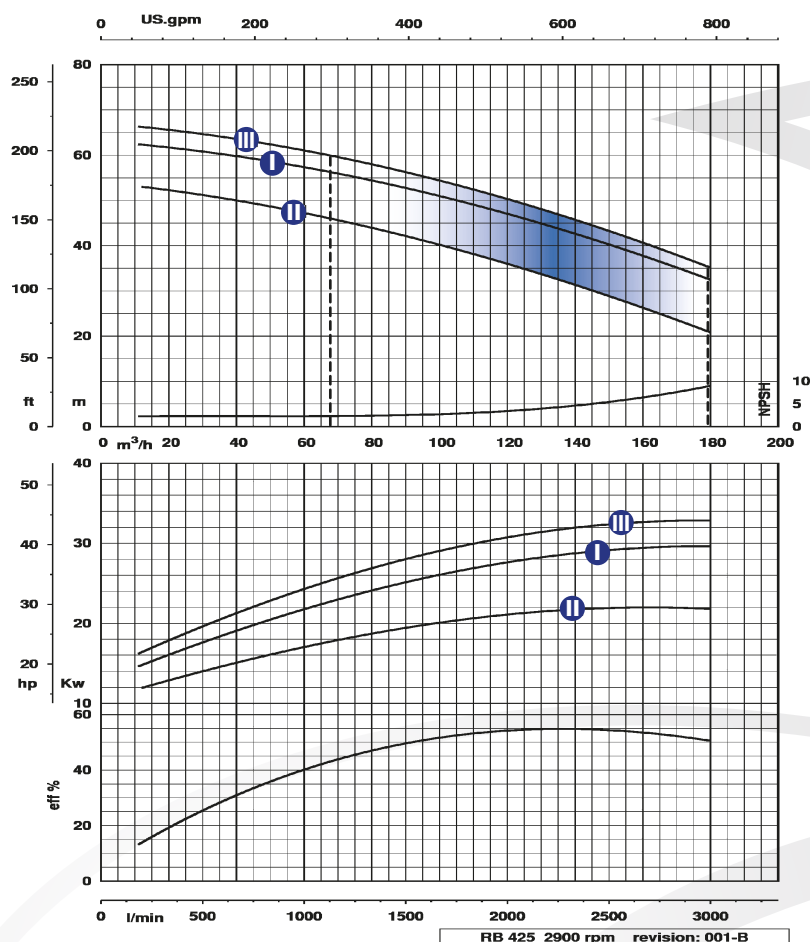


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB425

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



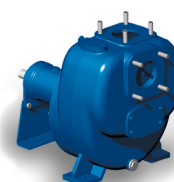
PUMP PERFORMANCE RANGE

I RB425A

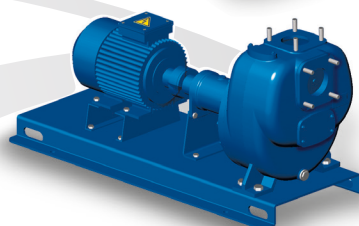
II RB425B

III RB4250

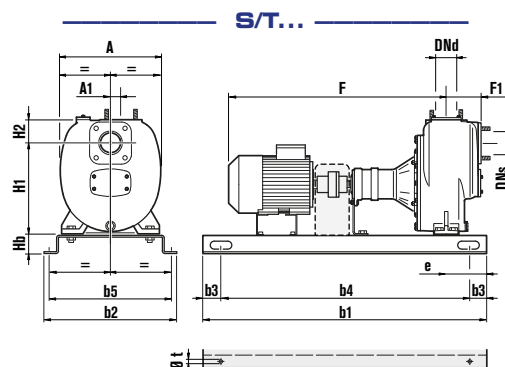
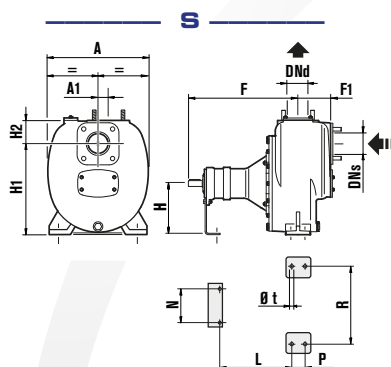
Performances are subjected to variations based on NPSH available.



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB425A / B / O GS	100	100	442	46							562	103	225	400	102		384	202	56	350	16
RB425AGS/T302	100	100	442	46	1250	540	205	840	490	100	562	153		400	102	80					20
RB425BGS/T222	100	100	442	46	1250	540	205	840	490	100	562	153		400	102	80					20
RB4250GS/T372	100	100	442	46	1250	540	205	840	490	100	562	153		400	102	80					20

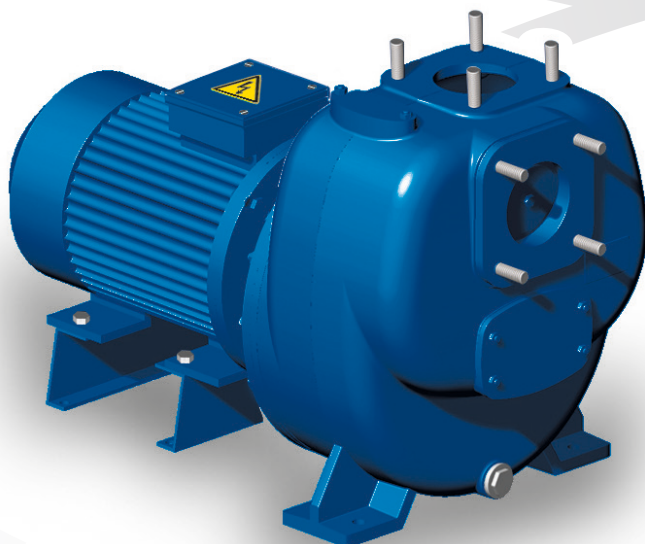
All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB425 L

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB425B L*	RB425A L*
PUMP		
RPM	1450	1450
P MAX (kW)	5.5	7.5
Q MAX (m³/h)	170	180
H MAX (m)	16	20
Ø Inlet/outlet (mm) Inlet / outlet	100 / 100	100 / 100
Ø Impeller (mm) - N. blades	225 - 3	250 - 3
Ø Seal (mm)	32	32
Free solids passage MAX size (mm)	55 x 50	55 x 50

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132S - 1450 - 4	132M - 1450 - 4
Voltage (V) - Power (kW)	400 - 5.5	400 - 7.5
Priming time from 4 m depth (s)	50	41
Nominal Current (A)	11.2	15.3
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

PUMP SET UP AVAILABLE

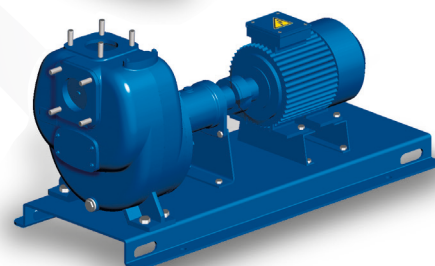
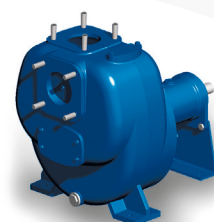
Possible coupling versions (total weight)		
T4: Monobloc (kg)	141	146
S4: Bare shaft pump (kg)	106	106
S4 / T...: Complete pump assembly (kg)	201	210

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

* Low speed version

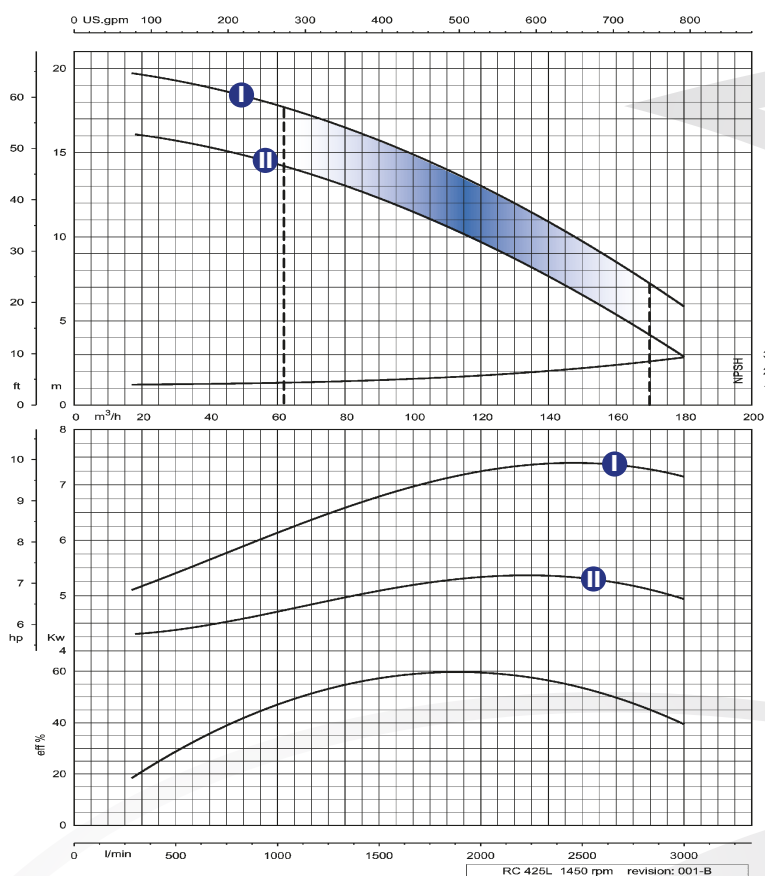


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB425 L

ROBUSTA
Hydraulic System

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PUMP PERFORMANCE RANGE

I RB425A

II RB425B

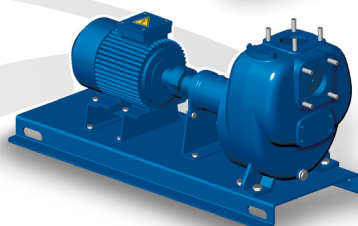
Performances are subjected to variations based on NPSH available.



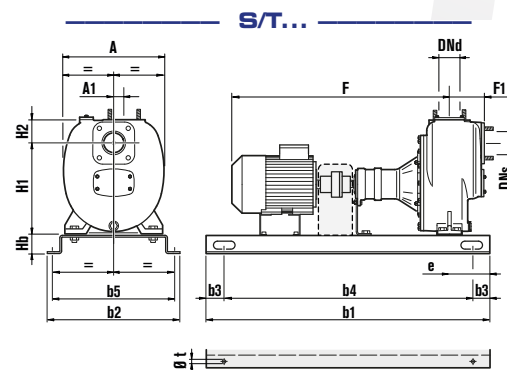
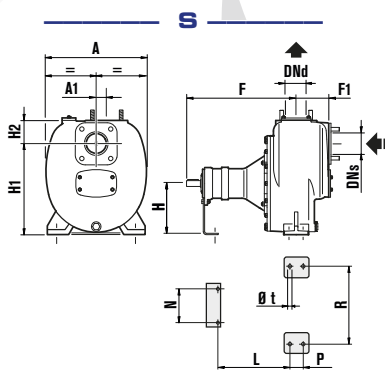
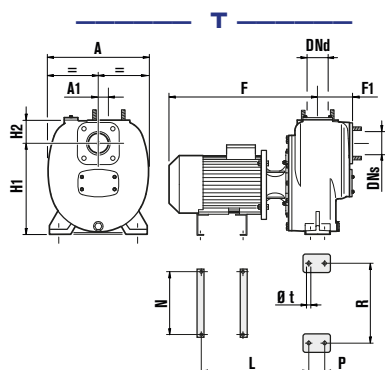
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB425AGT4	100	100	442	46							652	153		400	102		476	270	56	350	16
RB425BGT4	100	100	442	46							612	153		400	102		476	270	56	350	16
RB425A / B / O GS4	100	100	442	46							481	153	225	400	102		336	154	56	350	16
RB425AGS4/T74	100	100	442	46	1250	540	205	840	490	100	481	153		400	102	80					20
RB425BGS4/T54	100	100	442	46	1250	540	205	840	490	100	481	153		400	102	80					20

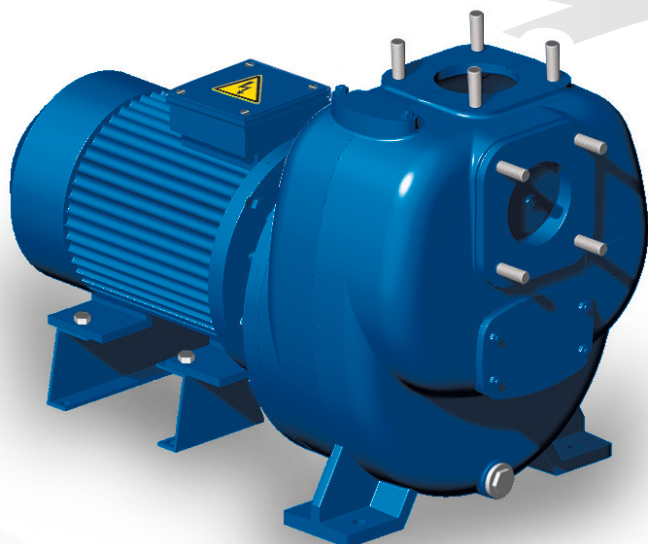
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SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB431

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



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The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB431B	RB431A
PUMP		
RPM	1450	1450
P MAX (kW)	11	15
Q MAX (m³/h)	200	200
H MAX (m)	26	32
Ø Inlet/outlet (mm) Inlet / outlet	100 / 100	100 / 100
Ø Impeller (mm) - N. blades	280 - 3	313 - 3
Ø Seal (mm)	45	45
Free solids passage MAX size (mm)	50 x 50	50 x 50

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	160M - 1450 - 4	160L - 1450 - 4
Voltage (V) - Power (kW)	400 - 11	400 - 15
Priming time from 4 m depth (s)	45	50
Nominal Current (A)	22	29
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

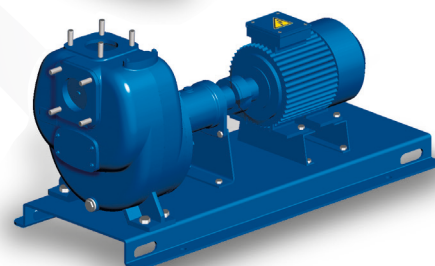
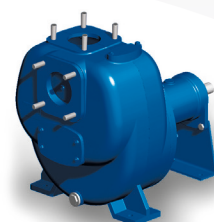
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
T4: Monobloc (kg)	275	280
S4: Bare shaft pump (kg)	177	177
S4 / T...: Complete pump assembly (kg)	410	410

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

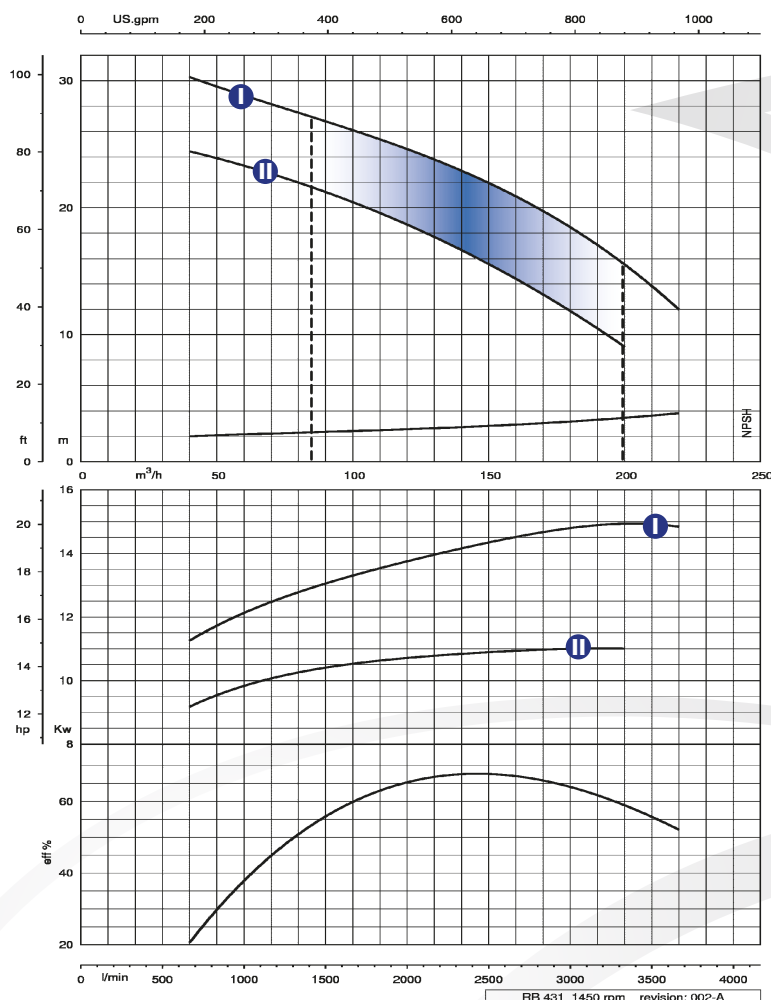


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB431

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

I RB431A

II RB431B

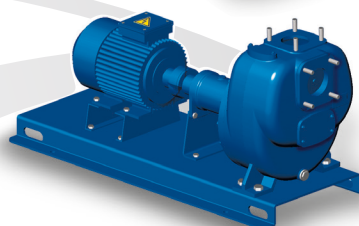
Performances are subjected to variations based on NPSH available.



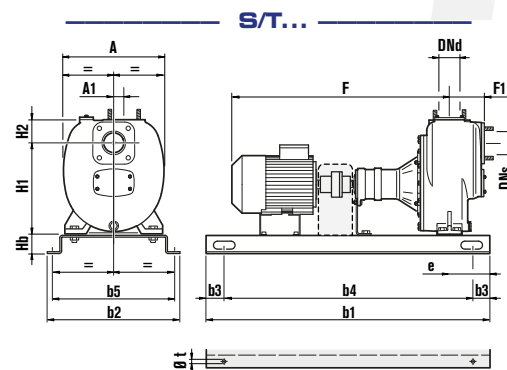
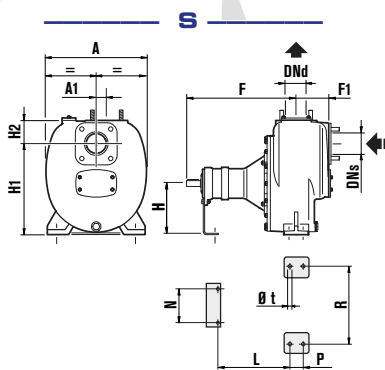
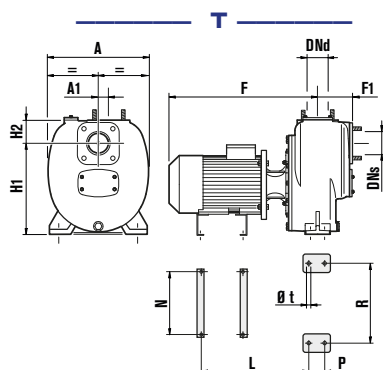
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB431A / B GT4	100	100	582	130							850	169		510	105		597	320	102	468	18
RB431A / B GS4	100	100	582	130							610	169	300	510	105		392	203	102	468	18
RB431AGS4/T154	100	100	582	130	1500	720	250	900	680	75	570	169		510	105	55					20
RB431BGS4/T114	100	100	582	130	1500	720	250	900	680	75	570	169		510	105	55					20

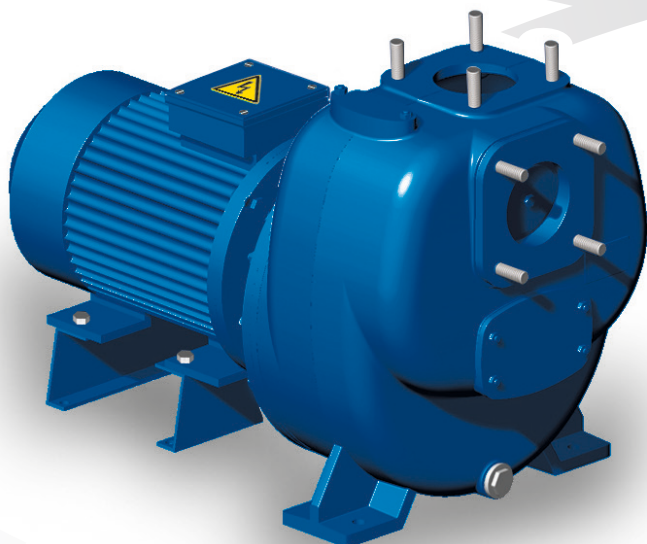
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SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB625

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RB625B	RB625A
PUMP		
RPM	1450	1450
P MAX (kW)	9	11
Q MAX (m³/h)	300	350
H MAX (m)	15	17
Ø Inlet/outlet (mm) Inlet / outlet	150 / 150	150 / 150
Ø Impeller (mm) - N. blades	230 - 3	250 - 3
Ø Seal (mm)	45	45
Free solids passage MAX size (mm)	73 x 50	73 x 50

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132L - 1450 - 4	160M - 1450 - 4
Voltage (V) - Power (kW)	400 - 9.2	400 - 11
Priming time from 4 m depth (s)	71	59
Nominal Current (A)	18	22
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

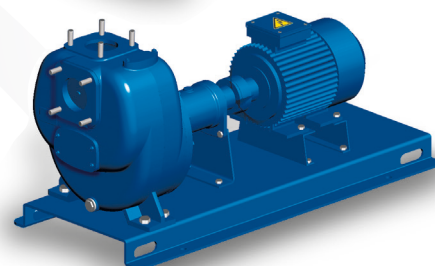
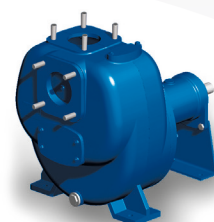
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
T4: Monobloc (kg)		274
S4: Bare shaft pump (kg)	186	186
S4 / T...: Complete pump assembly (kg)	360	365

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

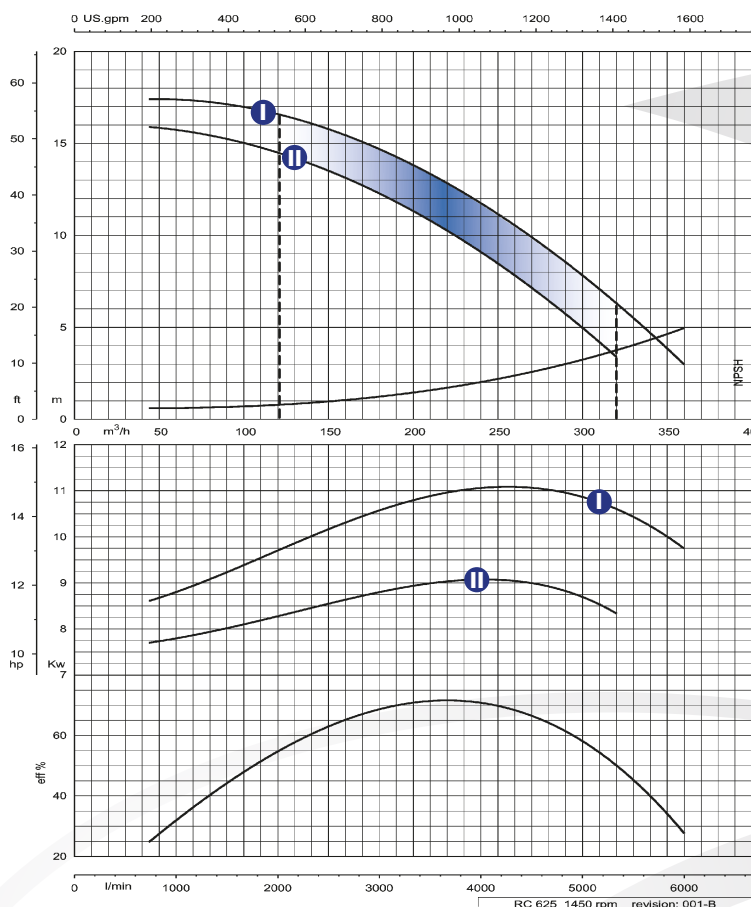


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB625

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

I RB625A

II RB625B

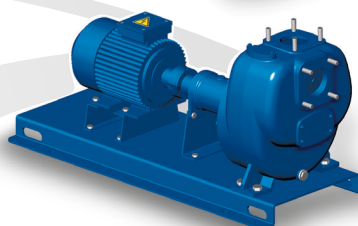
Performances are subjected to variations based on NPSH available.



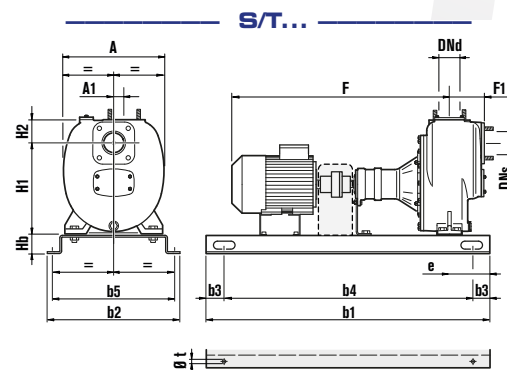
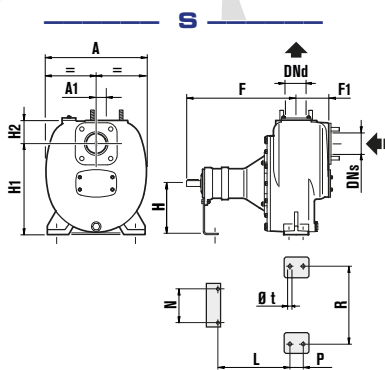
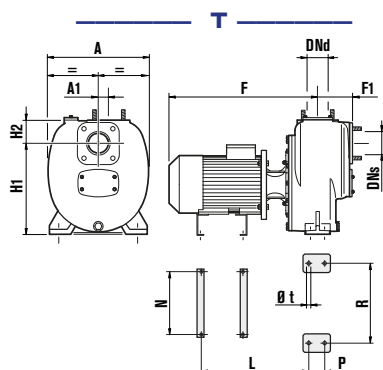
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB625AGT4	150	150	512	70							829	188		450	131		612	320	50	360	18
RB625A / B GS4	150	150	512	70							631	188	260	450	131		451	203	50	360	18
RB625AGS4/T114	150	150	512	70	1250	540	205	840	490	90	631	182		450	131	80					20
RB625BGS4/T94	150	150	512	70	1250	540	205	840	490	90	631	182		450	131	80					20

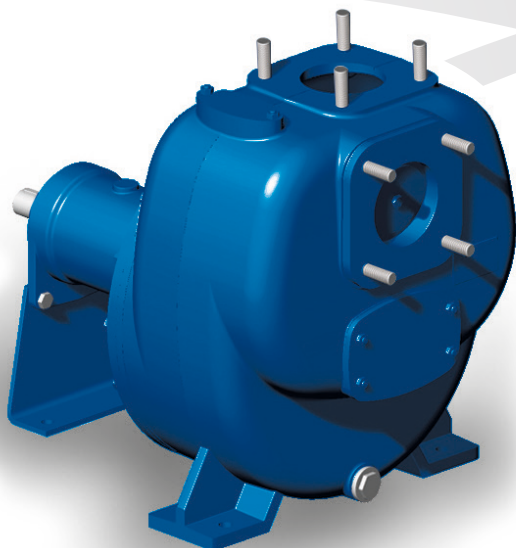
All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB831

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self-priming centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Oil bath lubricated ball bearings.

VERSIONS

Code	RB831B	RB831A	RB8310
PUMP			
RPM	1450	1450	1450
P MAX (kW)	22	30	37
Q MAX (m³/h)	550	550	550
H MAX (m)	22	26	28
Ø Inlet/outlet (mm) Inlet / outlet	200 / 200	200 / 200	200 / 200
Ø Impeller (mm) - N. blades	270 - 3	300 - 3	315 - 3
Ø Seal (mm)	55	55	55
Free solids passage MAX size (mm)	75 x 78	75 x 78	75 x 78

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	180L - 1450 - 4	200L - 1450 - 4	225S - 1450 - 4
Voltage (V) - Power (kW)	400 - 22	400 - 30	400 - 37
Priming time from 4 m depth (s)	55	50	45
Nominal Current (A)	40	57	70
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

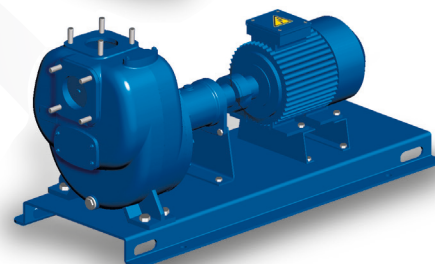
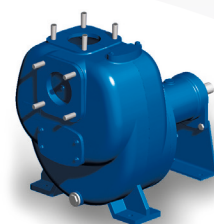
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)			
S4: Bare shaft pump (kg)	354	354	350
S4 / T...: Complete pump assembly (kg)	924	987	1000

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

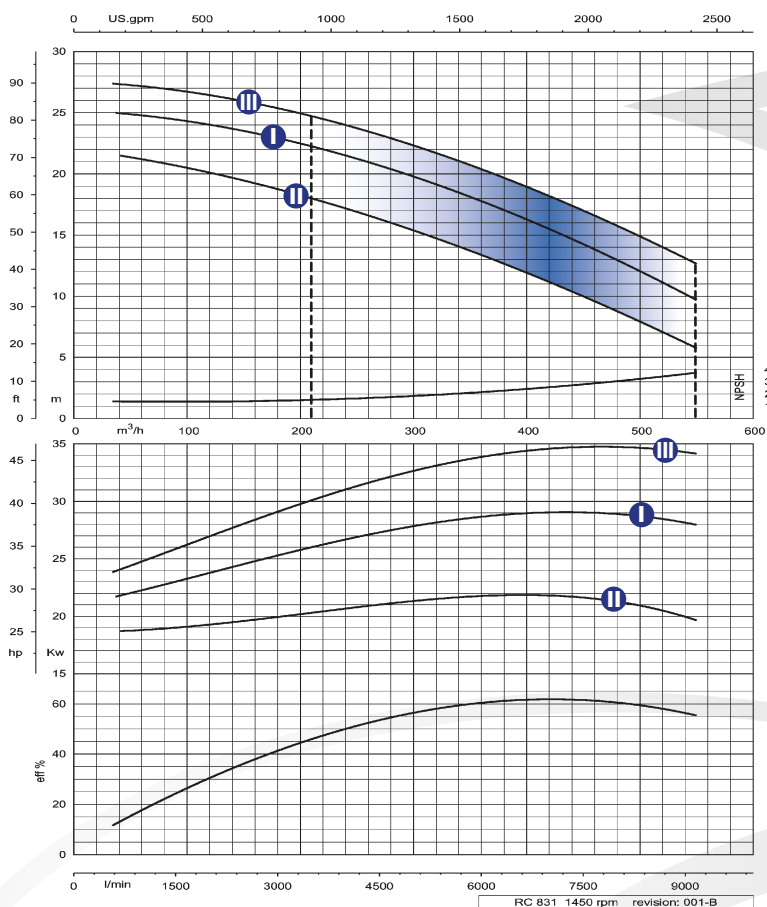


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB831

ROBUSTA
Hydraulic System

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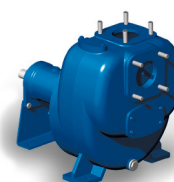
PUMP PERFORMANCE RANGE

I RB831A

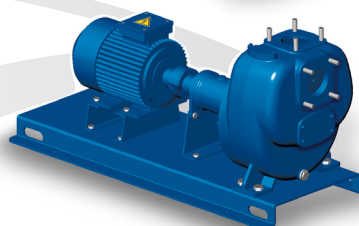
II RB831B

III RB8310

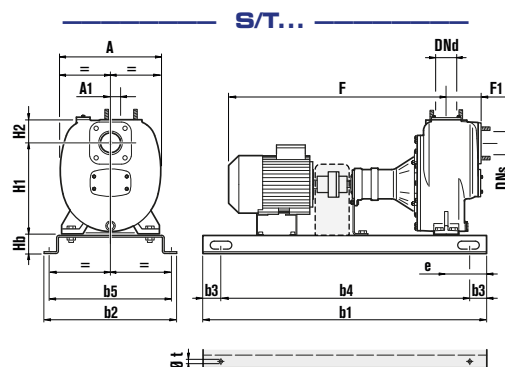
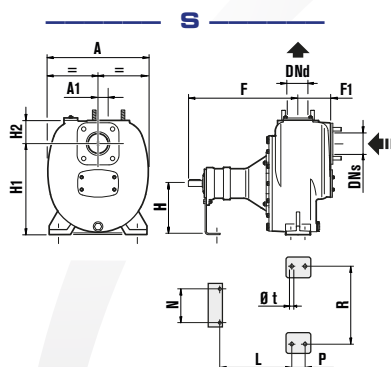
Performances are subjected to variations based on NPSH available.



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB831A / B / O GS4	200	200	690	137							749	255	370	550	180		456	240	140	410	20
RB831AGS/T304	200	200	690	137	1900	800	200	1300	750	120	749	255		550	180	55					20
RB831BGS/T224	200	200	690	137	1900	800	200	1300	750	120	749	255		550	180	55					20
RB831OGS/T374	200	200	690	137	1900	800	200	1300	750	120	749	255		550	180	55					20

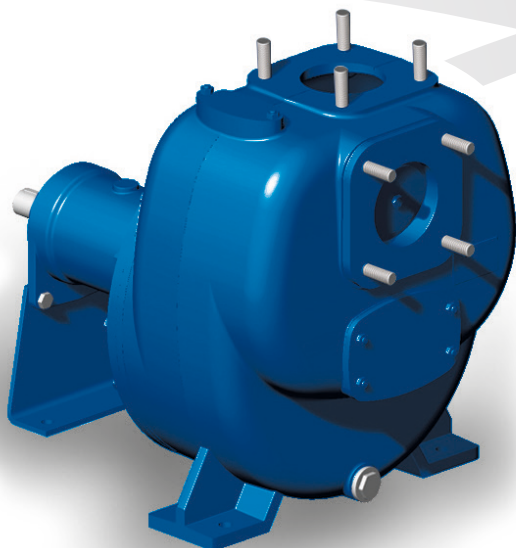
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SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB1031

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



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FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Oil bath lubricated ball bearings.

VERSIONS

Code	RB1031B	RB1031A
PUMP		
RPM	1450	1450
P MAX (kW)	30	37
Q MAX (m³/h)	700	700
H MAX (m)	19	21
Ø Inlet/outlet (mm) Inlet / outlet	250 / 250	250 / 250
Ø Impeller (mm) - N. blades	275 - 2	300 - 2
Ø Seal (mm)	55	55
Free solids passage MAX size (mm)	85 x 85	85 x 85

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	200L - 1450 - 4	225S - 1450 - 4
Voltage (V) - Power (kW)	400 - 30	400 - 37
Priming time from 4 m depth (s)	75	65
Nominal Current (A)	57	70
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

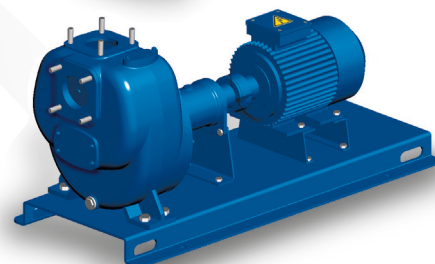
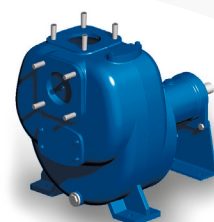
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
S4: Bare shaft pump (kg)	520	520
S4 / T...: Complete pump assembly (kg)	1287	1300

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

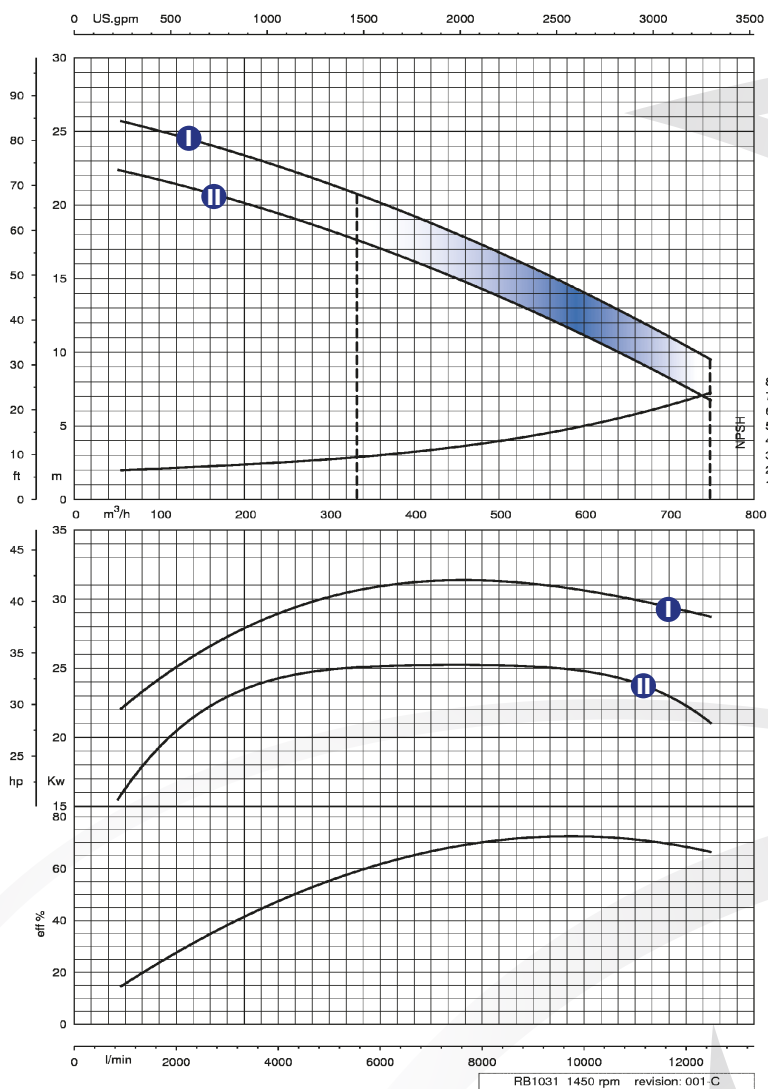


SELF-PRIMING CENTRIFUGAL ELECTRIC PUMPS

RB1031

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA

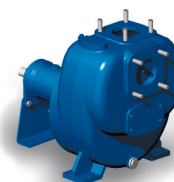


PUMP PERFORMANCE RANGE

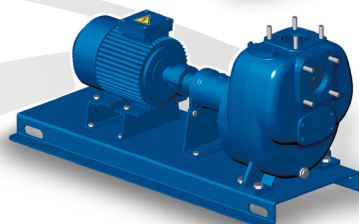
I RB1031A

II RB1031B

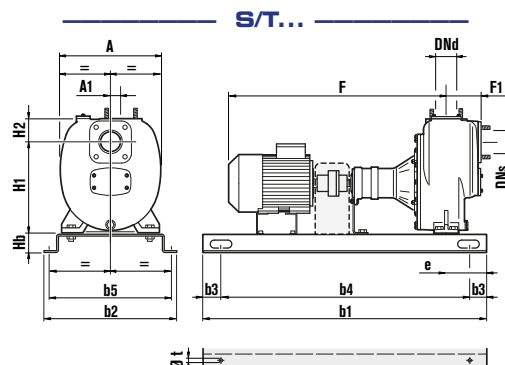
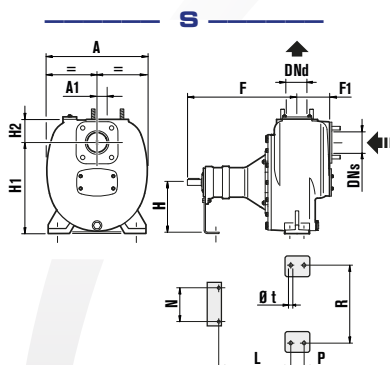
Performances are subjected to variations based on NPSH available.



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	A1	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RB1031A / B GS4	250	250	792	240							749	370	370	630	230	595	240			440	22
RB1031AGS/T374	250	250	792	240	1900	800	200	1500	750	225	749	370		630	230	55					20
RB1031BGS/T304	250	250	792	240	1900	800	200	1500	750	225	749	370		630	230	55					20

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

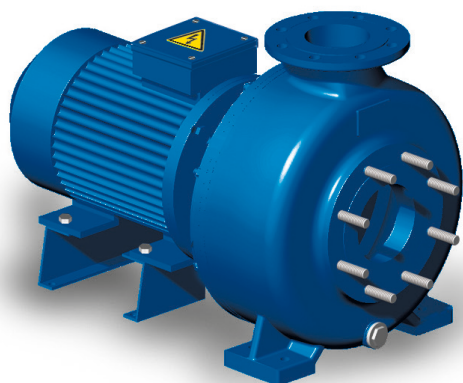
RC



SELECTION

TYPE	CODE	PORTS	POWER	FLOW m³/h													
2900 RPM					10	20	30	45	50	60	80	90	100	120	160	180	
RC216	RC216B...	65 x 50	3.0	MANOMETRIC HEAD m	24	22	17	6									
	RC216A...		4.0		30	28	23	12									
RC220	RC220B...		5.5		36	34	32	26	24								
	RC220A...		7.5		46	45	43	39	37								
RC316	RC316B...	100 x 80	4.0				19	17	16	14	9	7					
	RC316A...		5.5				23	20	19	17	13	10					
	RC316O...		7.5				28	26	25	23	18	15					
RC320	RC320B...		7.5				25	24	23	22	20	18	16	12			
	RC320A...		9.0				30	29	28	27	25	23	21	17			
	RC320O...		11.0				36	35	35	34	32	31	29	26			
RC325	RC325B...		15.0				43	41	40	38	35	33	30	25			
	RC325A...		18.5				50	48	47	45	42	40	37	32			
	RC325O...		22.0				55	54	53	51	47	45	43	38			
RC425	RC425B...	125 x 100	22.0						49	48	45	43	41	37	29	23	
	RC425A...		30.0						59	58	55	54	52	49	40	35	
	RC425O...		37.0						62	61	59	57	55	52	42	37	

TYPE	CODE	PORTS	POWER	FLOW m³/h													
1450 RPM					20	40	60	80	100	120	150	180	200	250	300	350	
RC325	RC325B...4	100 x 80	4.0	MANOMETRIC HEAD m	15	14	13	11	9	6							
	RC325A...4		5.5		19	19	18	16	14	12							
RC425	RC425B...4	125 x 100	5.5				14	13	11	10	6	3					
	RC425A...4		7.5				18	17	15	13	10	6					
RC625	RC625B...4	200 x 150	9.0						15	14	13	13	11	8	5		
	RC625A...4		11.0						17	17	16	15	14	11	8	4	



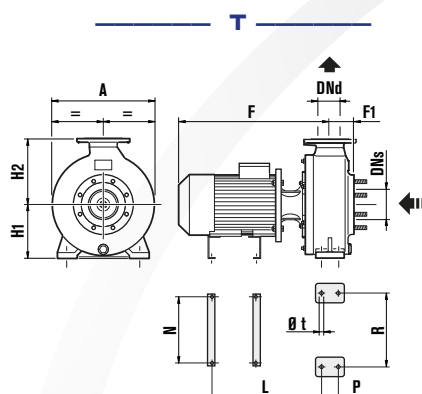
TECHNICAL DATA

CODE	PORTS	RPM	MAX. SOLID	Ø IMPELLER	Ø SEAL	POWER	VOLT	NOMIN. CURRENT		
	mm	rpm	mm	mm	mm	kW	V	A		
RC216B..	65 x 50	2900	25x22	140	25	3.0	400	5.1		
RC216A..				158		4.0		8.1		
RC220B..			40x30	175		5.5		10.5		
RC220A..				196		7.5		14.3		
RC320B..	100 x 80		40x35	162	32	7.5		14.3		
RC320A..				178		9.0		18		
RC3200..				188		11.0 ⁽¹⁾		21.9		
RC325B..			30x15	216	45	15.0		28.1		
RC325A..	230			18.5		35				
RC3250..	246			22.0		41				
RC425B..	125 x 100		50x24	220	45	22.0		41		
RC425A..				240		30.0		55		
RC4250..				250		37.0		67		
RC325B..4	100 x 80		1450	40x15	218	32		4.0		8.1
RC325A..4					250			5.5		11.2
RC425B..4	55x50	225			5.5	11.2				
RC425A..4		250			7.5	15.3				
RC625B..4	200 x 150	73x50		230	45	9.0	18			
RC625A..4				250		11.0	22			

(1) For monobloc RC3200GT version, motor casing is in special size 132.

OVERALL DIMENSIONS

T = MONOBLOC

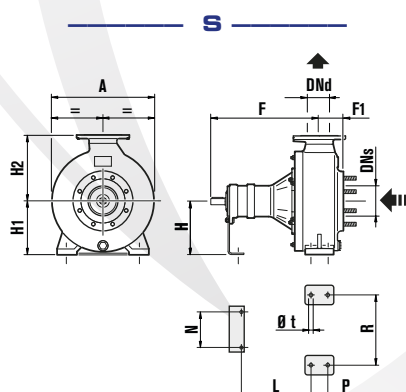


DIMENSIONS mm	DNs	DNd	A	F	F1	H1	H2	L	N	P	R	Ø t
RC216AGT	65	50	289	464	54	150	182	179	190	70	212	14
RC216BGT	65	50	289	455	54	150	182	172	160	70	212	14
RC220A / B GT	65	50	315	582	67	160	194	265	216	70	200	14
RC320AGT	100	80	351	570	92	180	252	223	216	112	280	14
RC320BGT	100	80	351	570	92	180	252	223	216	112	280	14
RC3200GT	100	80	351	635	92	180	252	223	216	112	280	14
RC325BGT	100	80	437	535	94	225	280	220	190	112	315	14
RC325AGT4 ¹	100	80	437	579	94	225	280	232	216	112	315	14
RC325BGT4 ¹	100	80	437	535	94	225	280	220	190	112	315	14
RC425AGT4 ¹	125	100	424	584	103	225	277	267	216	60	300	16
RC425BGT4 ¹	125	100	424	584	103	225	277	267	216	60	300	16
RC625AGT4	200	150	508	755	129	260	371	528	320	80	360	18

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

¹ (1450 RPM)

S = BARE SHAFT PUMP



DIMENSIONS mm	DNs	DNd	A	F	F1	H	H1	H2	L	N	P	R	Ø t
RC216A / B GS	65	50	289	331	54	150	150	182	194	103	70	212	14
RC220A / B GS	65	50	315	455	67	160	160	194	303	152	70	200	14
RC320A / B / O GS	100	80	351	443	92	180	180	252	261	152	112	280	14
RC325A / B / O GS	100	80	437	532	96	225	225	282	317	202	113	320	14
RC325A / B GS4 ¹	100	80	437	452	94	225	225	280	270	154	112	315	14
RC425A / B / O GS	125	100	424	538	103	225	225	277	354	202	60	300	16
RC425A / B GS ¹	125	100	424	457	103		225	277	305	154	60	300	16
RC625A / B GS4	200	150	508	557	129	260	260	371	367	203	80	360	18

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

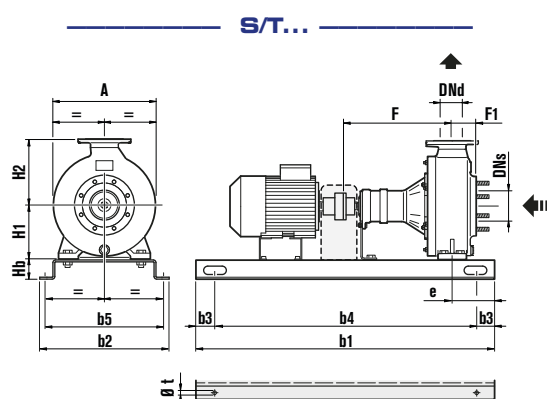
¹ (1450 RPM)

ELECTRIC CENTRIFUGAL PUMPS

RC

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



S/T... = BASE-FRAME AND COUPLING

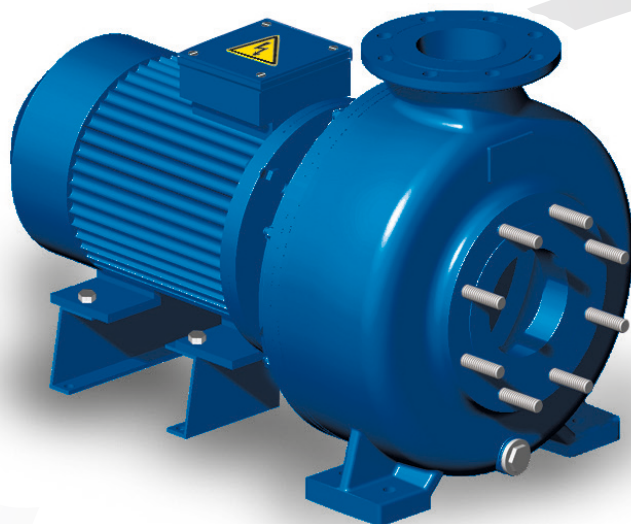
DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H1	H2	Hb	Ø t
RC216AGS/T42	65	50	289	800	360	130	540	320	70	331	54	150	182	60	17
RC216BGS/T32	65	50	289	800	360	130	540	320	70	331	54	150	182	60	17
RC220AGS/T72	65	50	315	1000	450	170	660	400	60	455	67	160	194	80	17
RC220BGS/T52	65	50	315	1000	450	170	660	400	60	455	67	160	194	80	17
RC320AGS/T92	100	80	351	1000	450	170	660	400	75	347	92	180	252	80	18
RC320BGS/T72	100	80	351	1000	450	170	660	400	75	347	92	180	252	80	18
RC320OGS/T112	100	80	351	1000	450	170	660	400	75	347	92	180	252	80	18
RC325AGS/T182	100	80	437	1250	540	205	840	490	100	437	94	225	280	80	20
RC325BGS/T152	100	80	437	1250	540	205	840	490	100	437	94	225	280	80	20
RC325OGS/T222	100	80	437	1250	540	205	840	490	100	437	94	225	280	80	20
RC325AGS4/T54 ¹	100	80	437	1250	540	205	840	490	100	452	94	225	280	80	20
RC325BGS4/T44 ¹	100	80	437	1250	540	205	840	490	100	452	94	225	280	80	20
RC425AGS/T302	125	100	424	1250	540	205	840	490	100	538	103	225	277	80	20
RC425BGS/T222	125	100	424	1250	540	205	840	490	100	538	103	225	277	80	20
RC425OGS/T372	125	100	424	1250	540	205	840	490	100	538	103	225	277	80	20
RC425AGS4/T74 ¹	125	100	424	1250	540	205	840	490	100	457	103	225	277	80	20
RC425BGS4/T54 ¹	125	100	424	1250	540	205	840	490	100	457	103	225	277	80	20

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

¹ (1450 RPM)

ELECTRIC CENTRIFUGAL PUMPS

RC216



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability.

The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RC216B	RC216A
PUMP		
RPM	2900	2900
P MAX (kW)	3	4
Q MAX (m³/h)	45	45
H MAX (m)	24	30
Ø Inlet/outlet (mm) Inlet / outlet	65 / 50	65 / 50
Ø Impeller (mm) - N. blades	140 - 3	158 - 3
Ø Seal (mm)	25	25
Free solids passage MAX size (mm)	25 x 22	25 x 22

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	100L - 2900 - 2	112M - 2900 - 2
Voltage (V)	400	400
Power (kW)	3	4
Nominal Current (A)	5.1	8.1
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

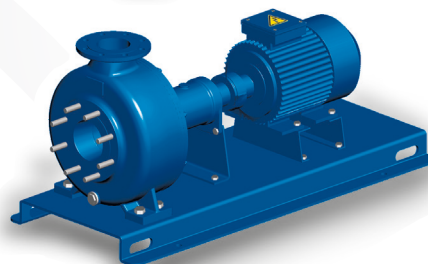
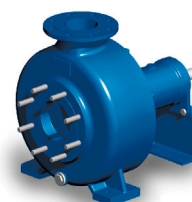
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
T: Monobloc (kg)	49	52
S: Bare shaft pump (kg)	31	31
S/T...: Complete pump assembly (kg)	77	80

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

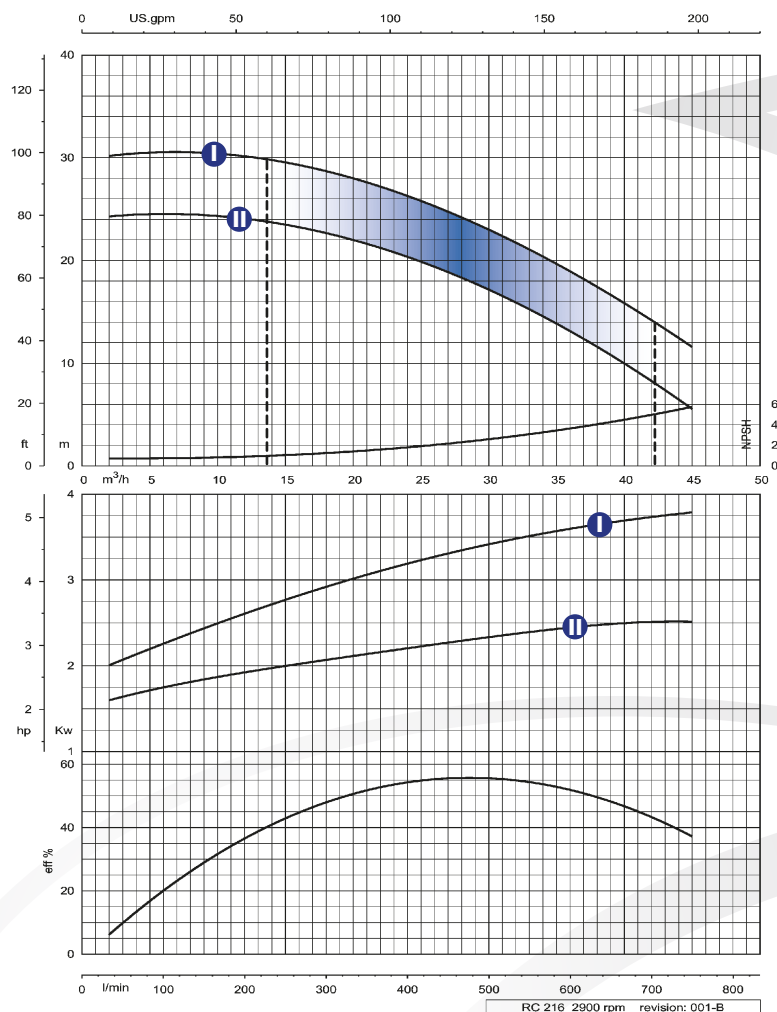


ELECTRIC CENTRIFUGAL PUMPS

RC216

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

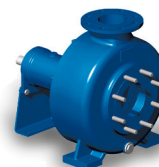
I RC216A

II RC216B

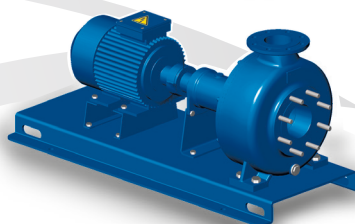
Performances are subjected to variations based on NPSH available.



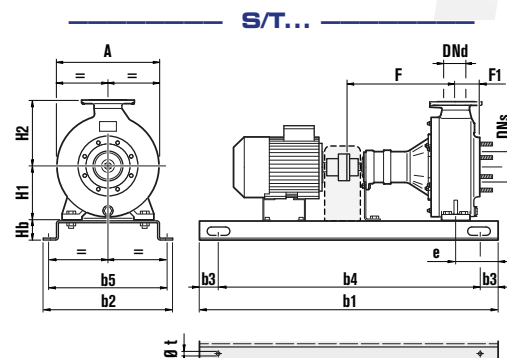
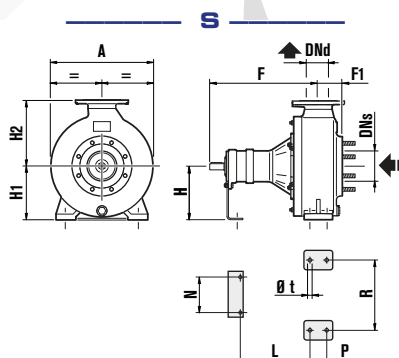
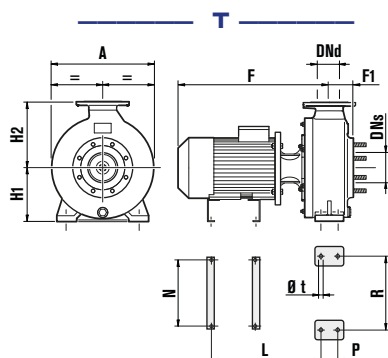
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING

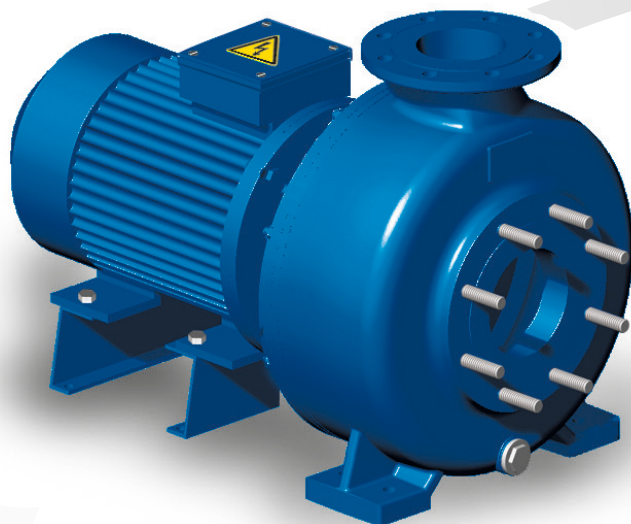


DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC216AGT	65	50	289							464	54		150	182		179	190	70	212	14
RC216BGT	65	50	289							455	54		150	182		172	160	70	212	14
RC216A / B GS	65	50	289							331	54	150	150	182		194	103	70	212	14
RC216AGS/T42	65	50	289	800	360	130	540	320	70	331	54		150	182	60					17
RC216BGS/T32	65	50	289	800	360	130	540	320	70	331	54		150	182	60					17

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

RC220



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RC220B	RC220A
PUMP		
RPM	2900	2900
P MAX (kW)	5.5	7.5
Q MAX (m³/h)	50	50
H MAX (m)	36	46
Ø Inlet/outlet (mm) Inlet / outlet	65 / 50	65 / 50
Ø Impeller (mm) - N. blades	175 - 2	196 - 2
Ø Seal (mm)	32	32
Free solids passage MAX size (mm)	40 x 30	40 x 30

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132S - 2900 - 2	132S - 2900 - 2
Voltage (V)	400	400
Power (kW)	5.5	7.5
Nominal Current (A)	10.5	14.3
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

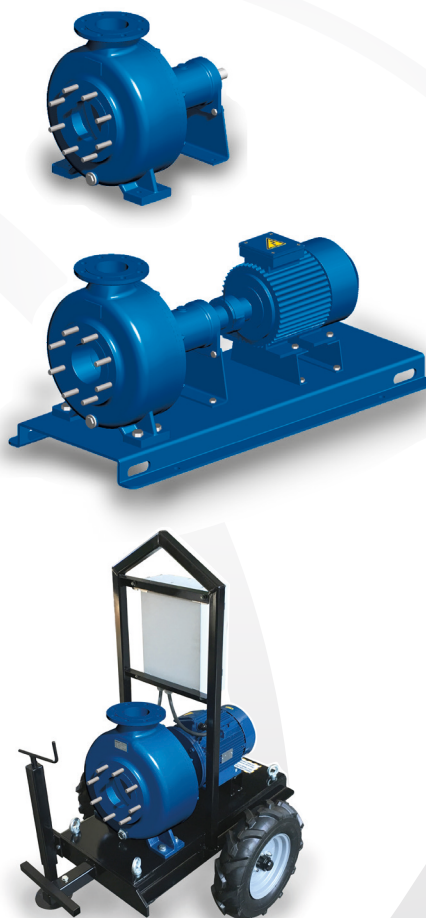
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
T: Monobloc (kg)	79	84
S: Bare shaft pump (kg)	59	59
S/T...: Complete pump assembly (kg)	136	141

STANDARD MATERIAL OF CONSTRUCTION

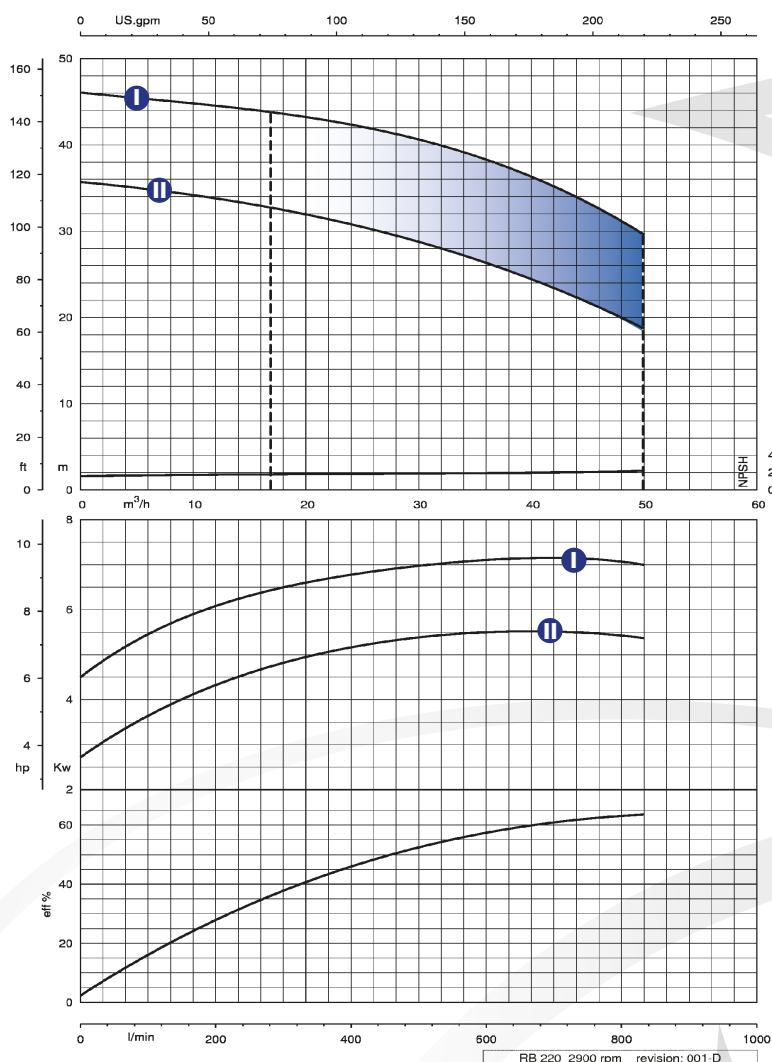
Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.



ELECTRIC CENTRIFUGAL PUMPS

RC220



PUMP PERFORMANCE RANGE

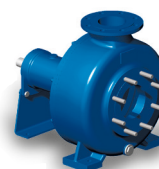
I RC220A

II RC220B

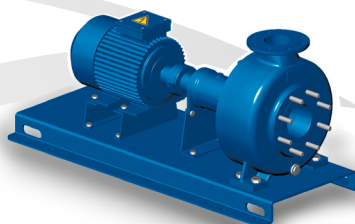
Performances are subjected to variations based on NPSH available.



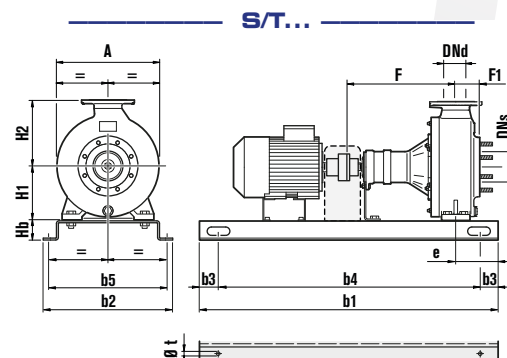
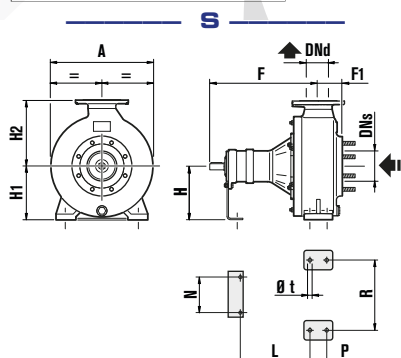
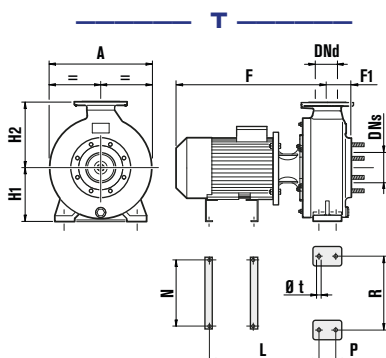
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING

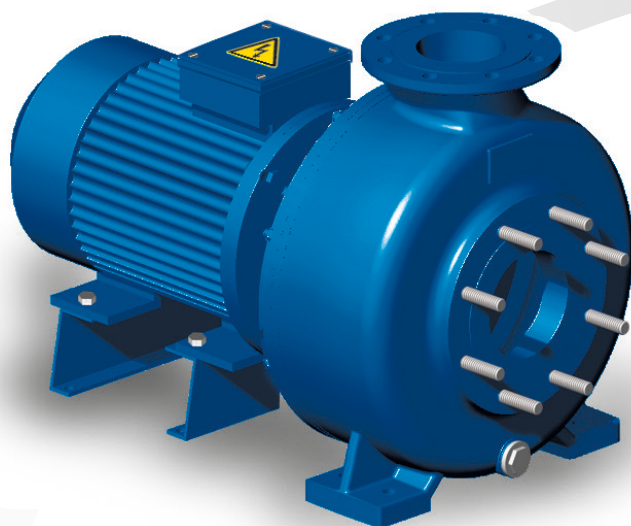


DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC220A / B GT	65	50	315							582	67		160	194		265	216	70	200	14
RC220A / B GS	65	50	315							455	67	160	160	194		303	152	70	200	14
RC220AGS/T72	65	50	315	1000	450	170	660	400	60	455	67		160	194	80					17
RC220BGS/T52	65	50	315	1000	450	170	660	400	60	455	67		160	194	80					17

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

RC320



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RC320B	RC320A	RC3200
PUMP			
RPM	2900	2900	2900
P MAX (kW)	7.5	9	11
Q MAX (m³/h)	120	120	120
H MAX (m)	25	32	36
Ø Inlet/outlet (mm) Inlet / outlet	100 / 80	100 / 80	100 / 80
Ø Impeller (mm) - N. blades	162 - 3	178 - 3	188 - 3
Ø Seal (mm)	32	32	32
Free solids passage MAX size (mm)	40 x 35	40 x 35	40 x 35

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132S - 2900 - 2	132M - 2900 - 2	160M* - 2900 - 2
Voltage (V)	400	400	400
Power (kW)	7.5	9	11
Nominal Current (A)	14.3	18	21.9
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

PUMP SET UP AVAILABLE

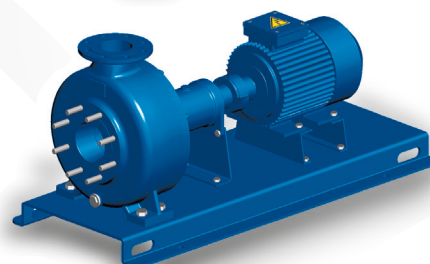
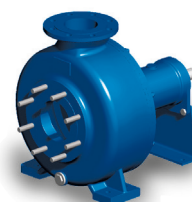
Possible coupling versions (total weight)			
T: Monobloc (kg)	95	100	110
S: Bare shaft pump (kg)	75	75	75
S/T...: Complete pump assembly (kg)	155	160	217

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

* For monobloc version RC3200GT
Motor in downsized frame 132

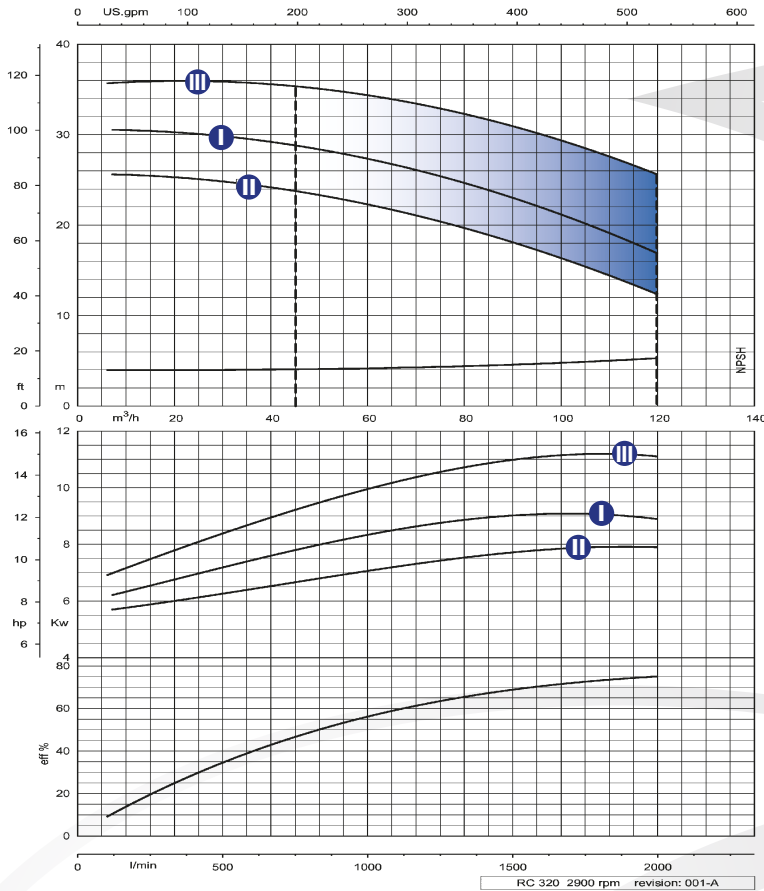


ELECTRIC CENTRIFUGAL PUMPS

RC320



POMPE • ITALIA



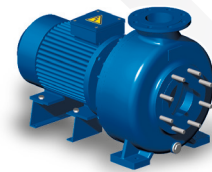
PUMP PERFORMANCE RANGE

I RC320A

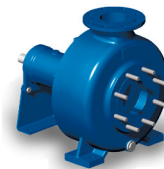
II RC320B

III RC320O

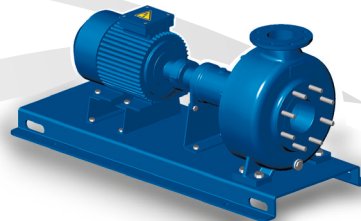
Performances are subjected to variations based on NPSH available.



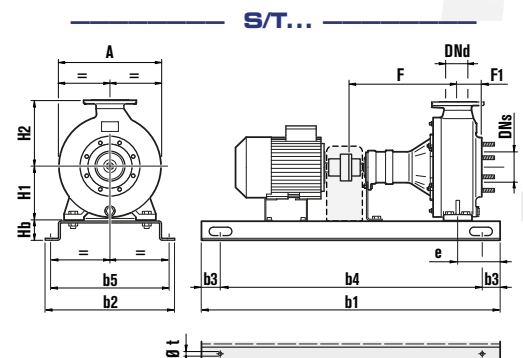
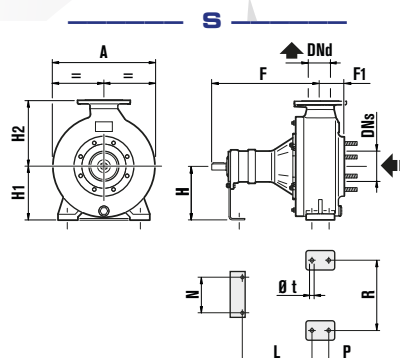
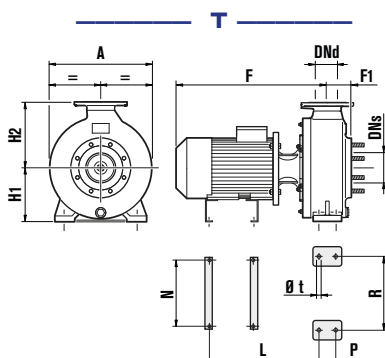
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING

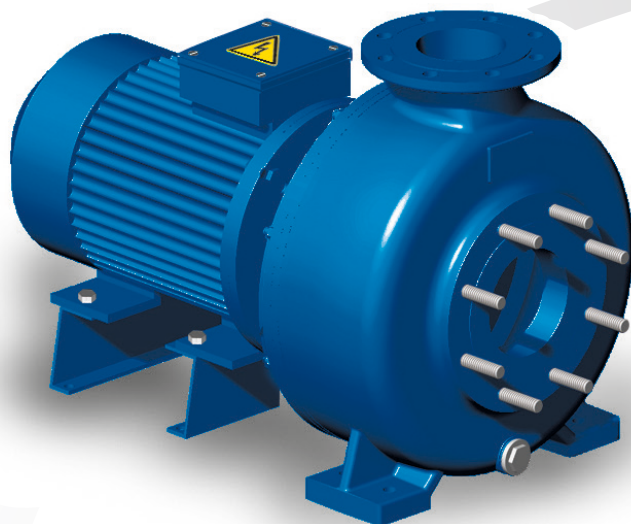


DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC320AGT	100	80	351							570	92		180	252		223	216	112	280	14
RC320BGT	100	80	351							570	92		180	252		223	216	112	280	14
RC320OGT	100	80	351							635	92		180	252		223	216	112	280	14
RC320A / B / O GS	100	80	351							443	92	180	180	252		261	152	112	280	14
RC320AGS/T92	100	80	351	1000	450	170	660	400	75	347	92		180	252	80					18
RC320BGS/T72	100	80	351	1000	450	170	660	400	75	347	92		180	252	80					18
RC320OGS/T112	100	80	351	1000	450	170	660	400	75	347	92		180	252	80					18

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

RC325



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability.
The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RC325B	RC325A	RC325O
PUMP			
RPM	2900	2900	2900
P MAX (kW)	15	18.5	22
Q MAX (m³/h)	120	120	120
H MAX (m)	43	51	56
Ø Inlet/outlet (mm) Inlet / outlet	100 / 80	100 / 80	100 / 80
Ø Impeller (mm) - N. blades	216 - 3	230 - 3	246 - 3
Ø Seal (mm)	45	45	45
Free solids passage MAX size (mm)	30 x 15	30 x 15	30 x 15

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	160M - 2900 - 2	160L - 2900 - 2	180M - 2900 - 2
Voltage (V)	400	400	400
Power (kW)	15	18.5	22
Nominal Current (A)	28.1	35	41
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

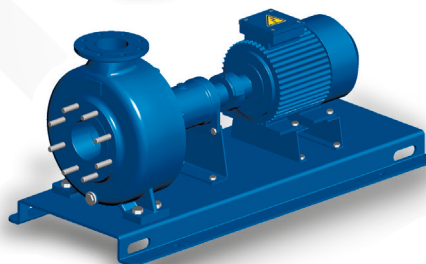
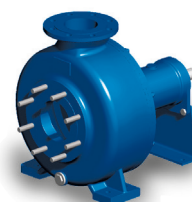
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)			
T: Monobloc (kg)	109		
S: Bare shaft pump (kg)	126	126	126
S/T...: Complete pump assembly (kg)	227	242	272

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armoured volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

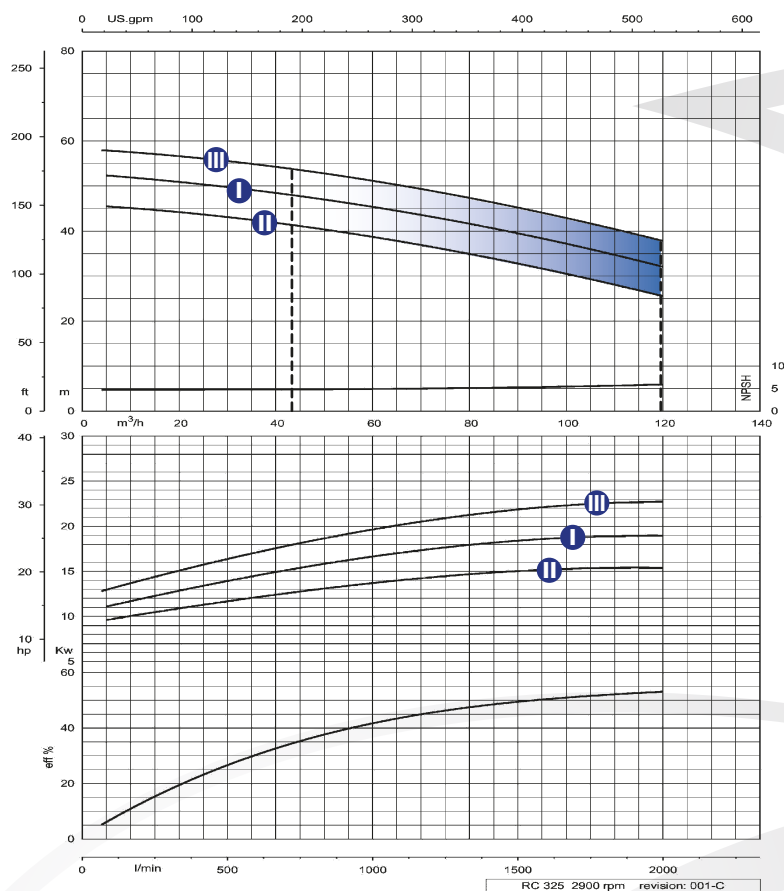


ELECTRIC CENTRIFUGAL PUMPS

RC325

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

I RC325A

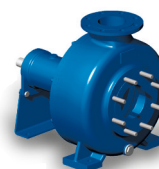
II RC325B

III RC3250

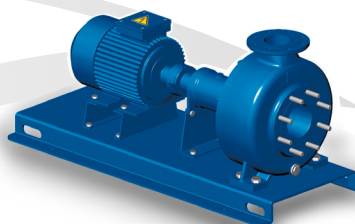
Performances are subjected to variations based on NPSH available.



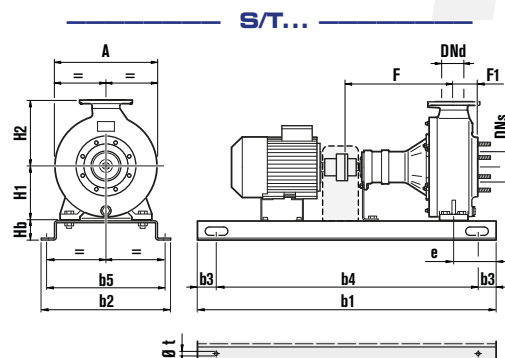
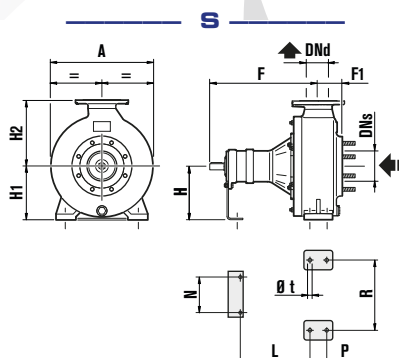
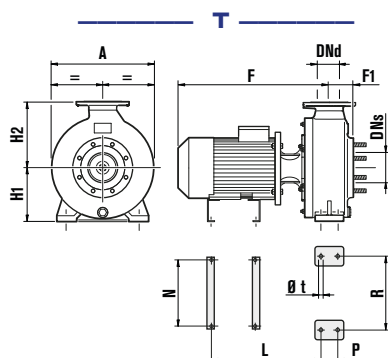
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING

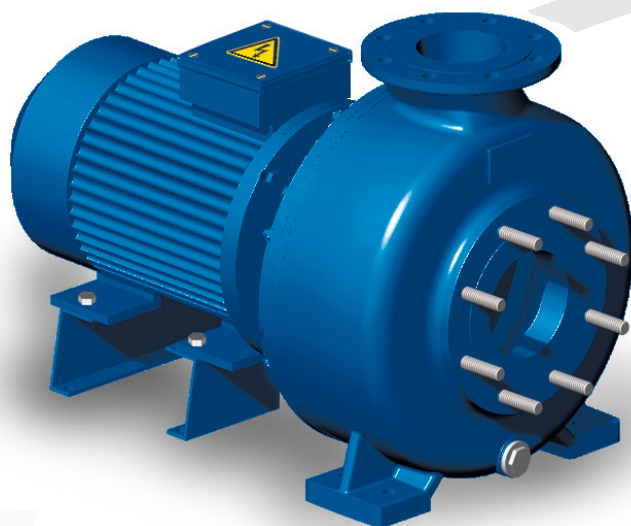


DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC325BGT	100	80	437							535	94		225	280		220	190	112	315	14
RC325A / B / O GS	100	80	437							532	96	225	225	282		317	202	113	320	14
RC325AGS/T182	100	80	437	1250	540	205	840	490	100	437	94		225	280	80					20
RC325BGS/T152	100	80	437	1250	540	205	840	490	100	437	94		225	280	80					20
RC3250GS/T222	100	80	437	1250	540	205	840	490	100	437	94		225	280	80					20

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

RC325 L



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RC325B L*	RC325A L*
PUMP		
RPM	1450	1450
P MAX (kW)	4	5.5
Q MAX (m³/h)	100	120
H MAX (m)	14	20
Ø Inlet/outlet (mm) Inlet / outlet	100 / 80	100 / 80
Ø Impeller (mm) - N. blades	218 - 3	250 - 3
Ø Seal (mm)	32	32
Free solids passage MAX size (mm)	40 x 15	40 x 15

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	112M - 1450 - 4	132S - 1450 - 4
Voltage (V)	400	400
Power (kW)	4	5.5
Nominal Current (A)	8.1	11.2
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

PUMP SET UP AVAILABLE

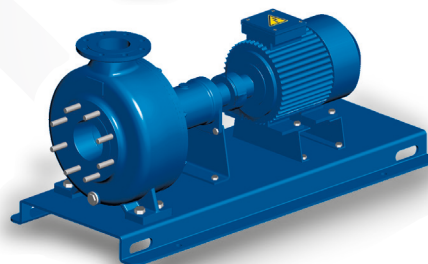
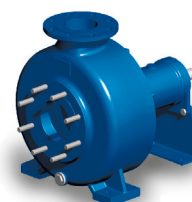
Possible coupling versions (total weight)		
T4: Monobloc (kg)	109	121
S4: Bare shaft pump (kg)	94	94
S4/T...: Complete pump assembly (kg)	184	201

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

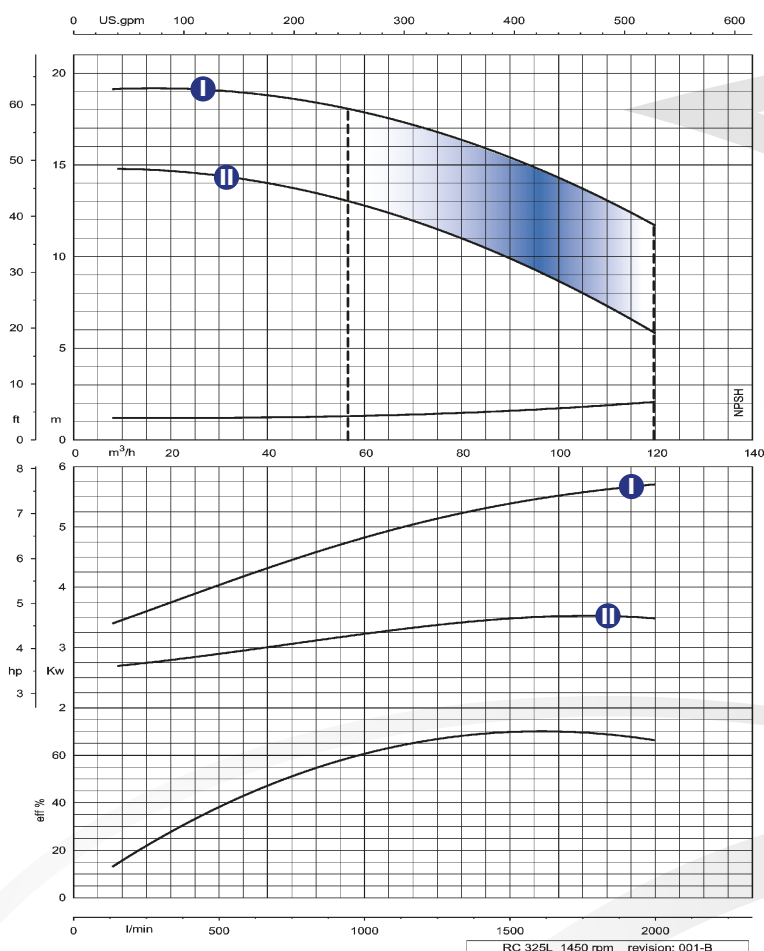
Special metallurgies available on demand.

* Low speed version



ELECTRIC CENTRIFUGAL PUMPS

RC325 L



PUMP PERFORMANCE RANGE

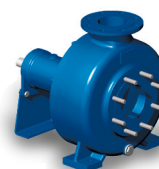
I RC325LA

II RC325LB

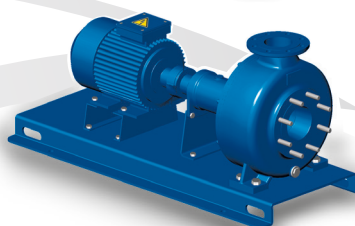
Performances are subjected to variations based on NPSH available.



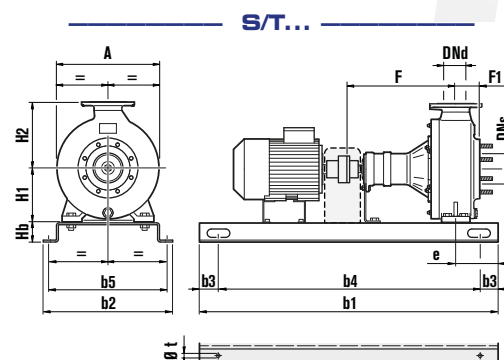
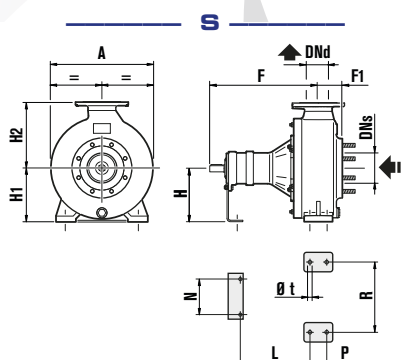
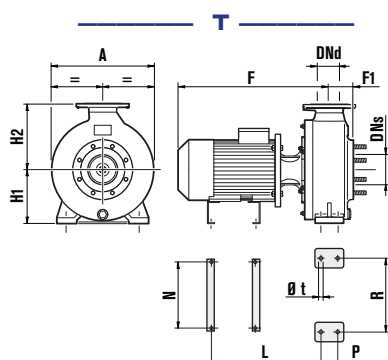
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING

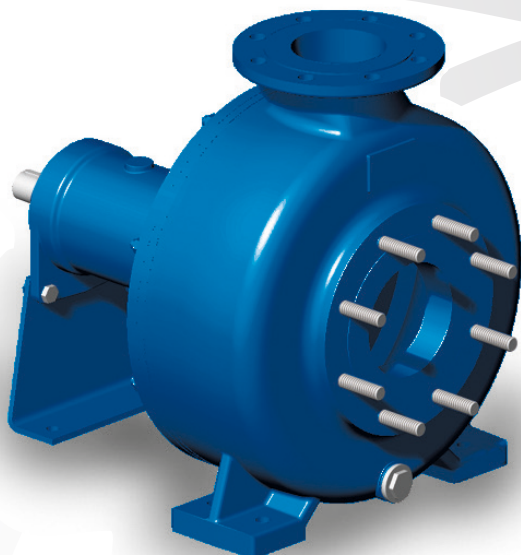


DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC325AGT4	100	80	437							579	94		225	280		232	216	112	315	14
RC325BGT4	100	80	437							535	94		225	280		220	190	112	315	14
RC325A / B GS4	100	80	437							452	94	225	225	280		270	154	112	315	14
RC325AGS4/T54	100	80	437	1250	540	205	840	490	100	452	94		225	280	80					20
RC325BGS4/T44	100	80	437	1250	540	205	840	490	100	452	94		225	280	80					20

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

RC425



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability.
The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Permanent grease lubricated ball bearings.

VERSIONS

Code	RC425B	RC425A	RC4250
PUMP			
RPM	2900	2900	2900
P MAX (kW)	22	30	37
Q MAX (m³/h)	180	180	180
H MAX (m)	53	62	66
Ø Inlet/outlet (mm) Inlet / outlet	125 / 100	125 / 100	125 / 100
Ø Impeller (mm) - N. blades	220 - 3	240 - 3	250 - 3
Ø Seal (mm)	45	45	45
Free solids passage MAX size (mm)	50 x 24	50 x 24	50 x 24

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	180M - 2900 - 2	200L - 2900 - 2	200L - 2900 - 2
Voltage (V)	400	400	400
Power (kW)	22	30	37
Nominal Current (A)	41	55	67
Frequency (Hz)	50	50	50
Construction version/position	B3 / B5	B3 / B5	B3 / B5
Protection	IP55	IP55	IP55

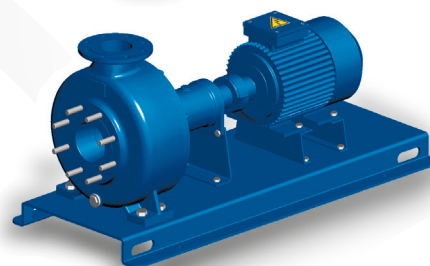
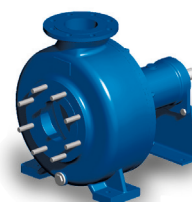
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)			
S: Bare shaft pump (kg)	115	115	115
S/T...: Complete pump assembly (kg)	355	407	433

STANDARD MATERIAL OF CONSTRUCTION

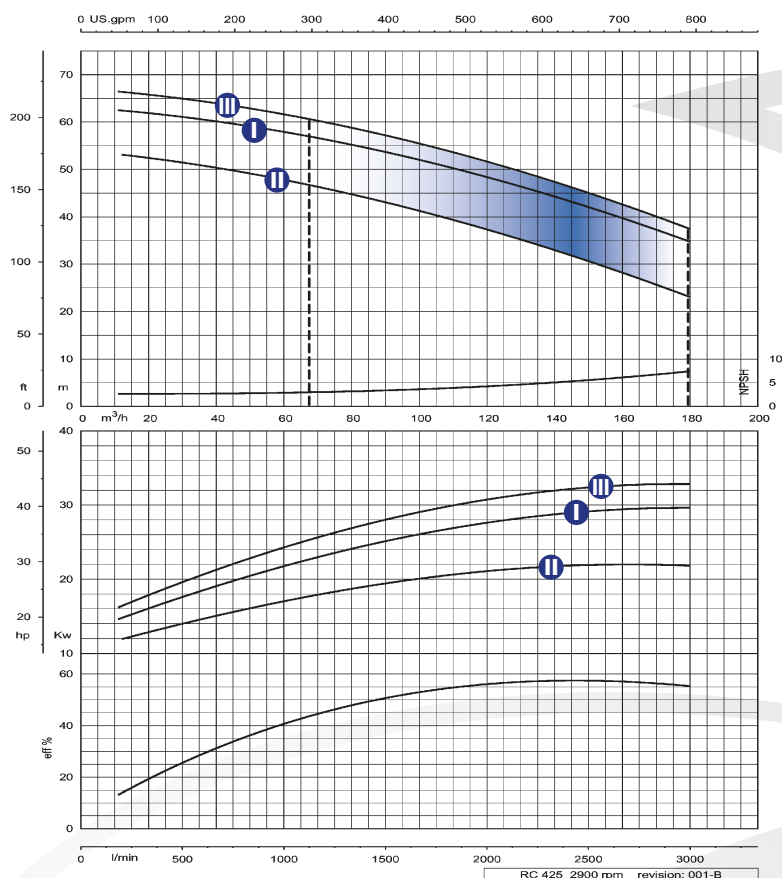
Pump body	Cast Iron GJL250
Armoured volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.



ELECTRIC CENTRIFUGAL PUMPS

RC425



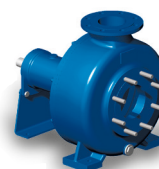
PUMP PERFORMANCE RANGE

I RC425A

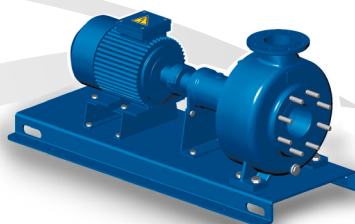
II RC425B

III RC4250

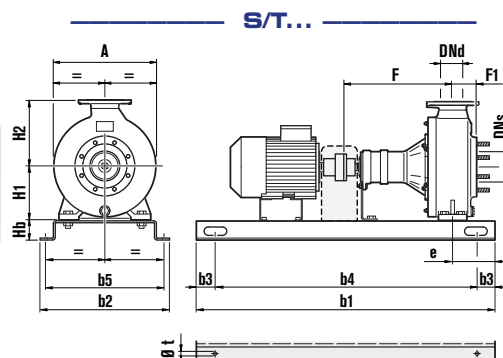
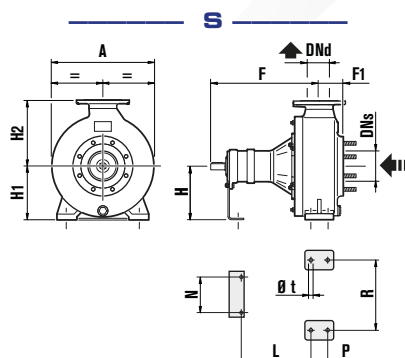
Performances are subjected to variations based on NPSH available.



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING

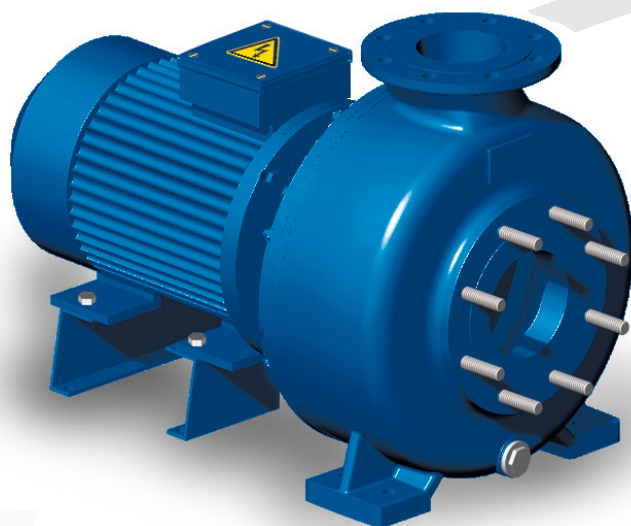


DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC425A / B / O GS	125	100	424							538	103	225	225	277		354	202	60	300	16
RC425AGS/T302	125	100	424	1250	540	205	840	490	100	538	103		225	277	80					20
RC425BGS/T222	125	100	424	1250	540	205	840	490	100	538	103		225	277	80					20
RC4250GS/T372	125	100	424	1250	540	205	840	490	100	538	103		225	277	80					20

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

RC425 L



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RC425B L*	RC425A L*
PUMP		
RPM	1450	1450
P MAX (kW)	5.5	7.5
Q MAX (m³/h)	170	180
H MAX (m)	16	20
Ø Inlet/outlet (mm) Inlet / outlet	125 / 100	125 / 100
Ø Impeller (mm) - N. blades	225 - 3	250 - 3
Ø Seal (mm)	32	32
Free solids passage MAX size (mm)	55 x 50	55 x 50

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132S - 1450 - 4	132M - 1450 - 4
Voltage (V)	400	400
Power (kW)	5.5	7.5
Nominal Current (A)	11.2	15.3
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

PUMP SET UP AVAILABLE

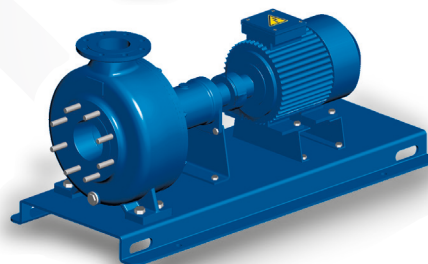
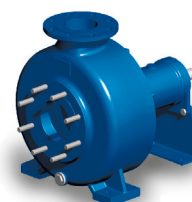
Possible coupling versions (total weight)		
T4: Monobloc (kg)	126	131
S4: Bare shaft pump (kg)	96	96
S4/T...: Complete pump assembly (kg)	193	203

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

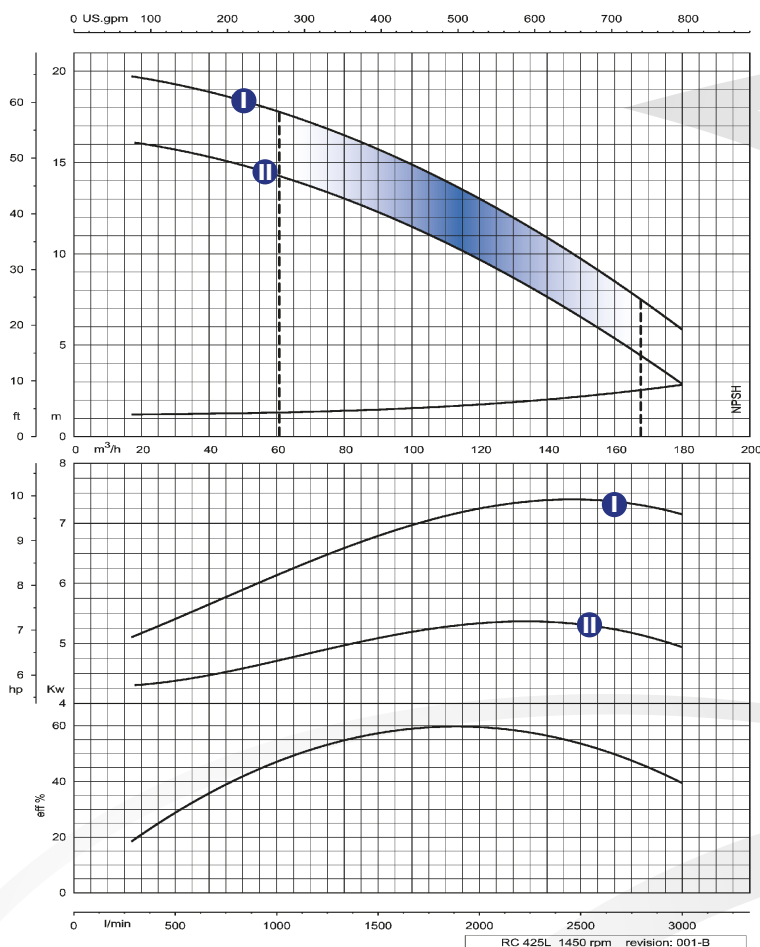
Special metallurgies available on demand.

* Low speed version



ELECTRIC CENTRIFUGAL PUMPS

RC425 L



PUMP PERFORMANCE RANGE

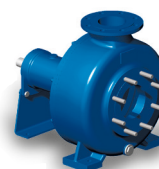
I RC425A

II RC425B

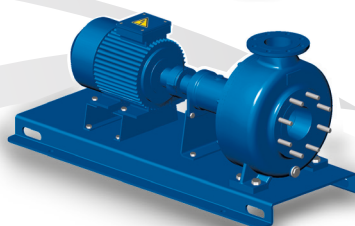
Performances are subjected to variations based on NPSH available.



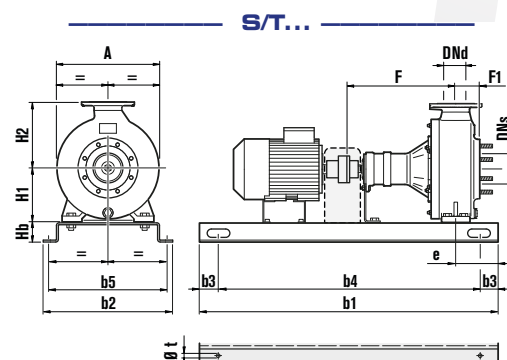
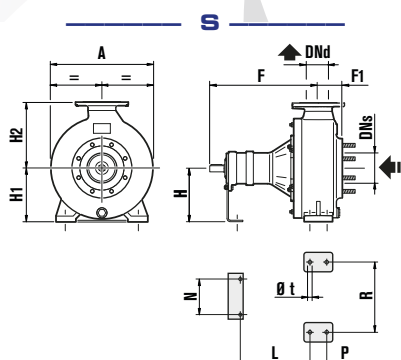
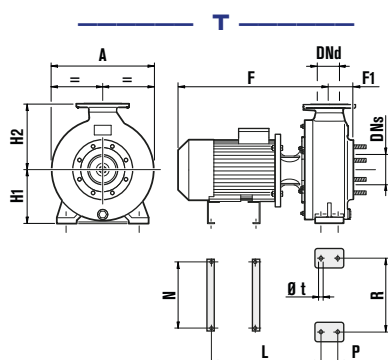
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING

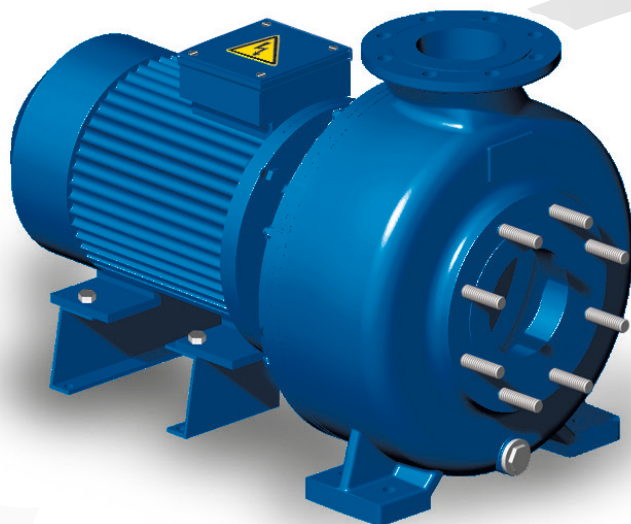


DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC425AGT4	125	100	424							584	103	225	277	267	216	60	300	16		
RC425BGT4	125	100	424							584	103	225	277	267	216	60	300	16		
RC425A / B GS	125	100	424							457	103	225	277	305	154	60	300	16		
RC425AGS4/T74	125	100	424	1250	540	205	840	490	100	457	103	225	277	80						20
RC425BGS4/T54	125	100	424	1250	540	205	840	490	100	457	103	225	277	80						20

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

ELECTRIC CENTRIFUGAL PUMPS

RC625



The centrifugal pumps "Robusta" are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability.
The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Spheroidal cast iron impeller, designed with open-blade shape.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.

VERSIONS

Code	RC625B	RC625A
PUMP		
RPM	1450	1450
P MAX (kW)	9	11
Q MAX (m³/h)	300	350
H MAX (m)	15	17
Ø Inlet/outlet (mm) Inlet / outlet	200 / 150	200 / 150
Ø Impeller (mm) - N. blades	230 - 3	250 - 3
Ø Seal (mm)	45	45
Free solids passage MAX size (mm)	73 x 50	73 x 50

ELECTRIC SURFACE NORMALIZED MOTOR

IEC size - RPM - Poles	132L - 1450 - 4	160M - 1450 - 4
Voltage (V)	400	400
Power (kW)	9	11
Nominal Current (A)	18	22
Frequency (Hz)	50	50
Construction version/position	B3 / B5	B3 / B5
Protection	IP55	IP55

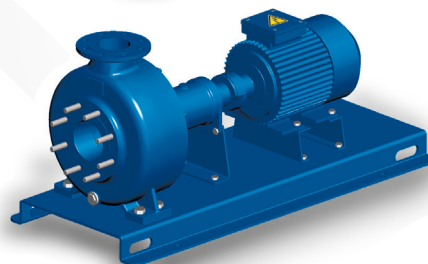
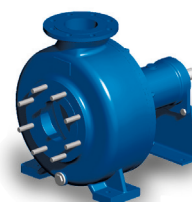
PUMP SET UP AVAILABLE

Possible coupling versions (total weight)		
T4: Monobloc (kg)		255
S4: Bare shaft pump (kg)	165	165
S4/T...: Complete pump assembly (kg)	360	360

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

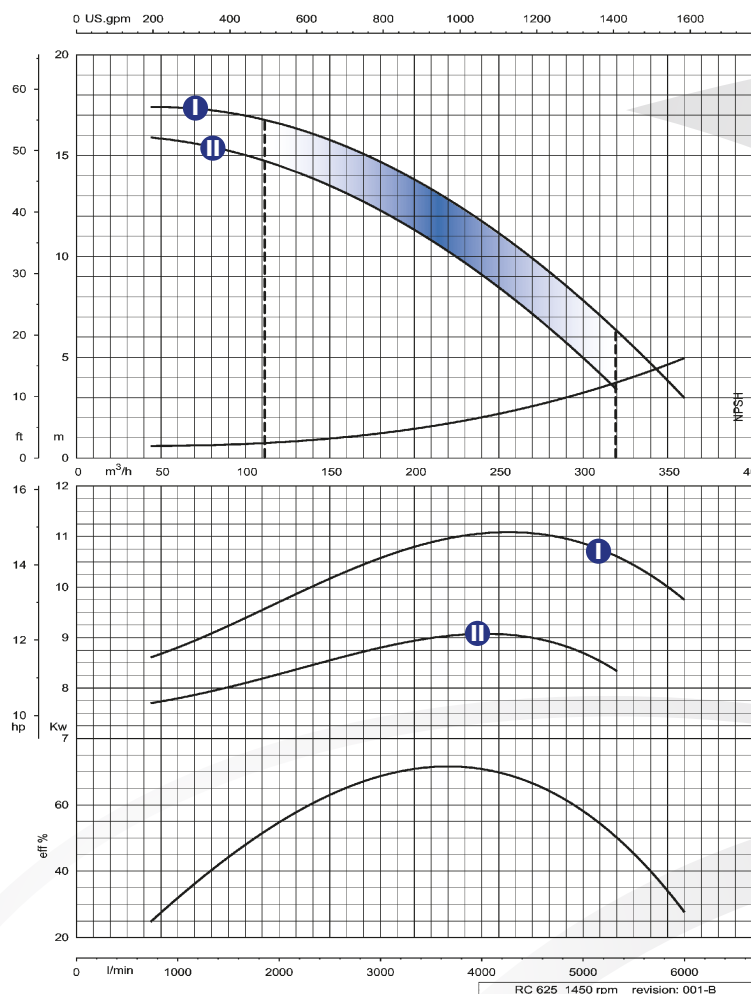


ELECTRIC CENTRIFUGAL PUMPS

RC625

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PUMP PERFORMANCE RANGE

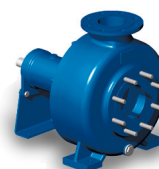
I RC625A

II RC625B

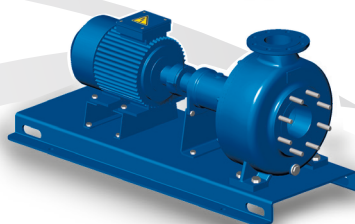
Performances are subjected to variations based on NPSH available.



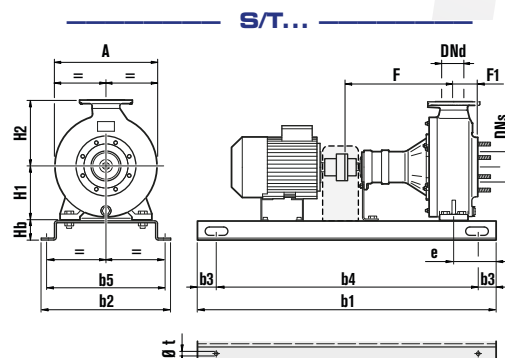
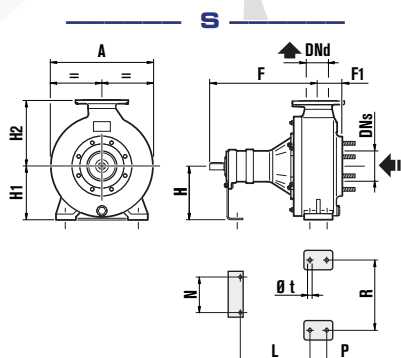
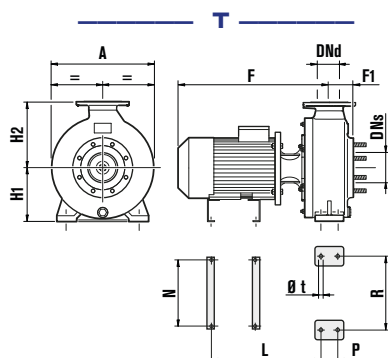
T
MONOBLOC



S
BARE SHAFT PUMP



S/T...
BASE-FRAME
AND COUPLING



DIMENSIONS mm	DNs	DNd	A	b1	b2	b3	b4	b5	e	F	F1	H	H1	H2	Hb	L	N	P	R	Ø t
RC625AGT4	200	150	508							755	129		260	371		528	320	80	360	18
RC625A / B GS4	200	150	508							557	129	260	260	371		367	203	80	360	18
RC625AGS4/T114	200	150	508	1400	610	230	940	550	164	557	129		260	371	100					20
RC625BGS4/T94	200	150	508	1400	610	230	940	550	164	557	129		260	371	100					20

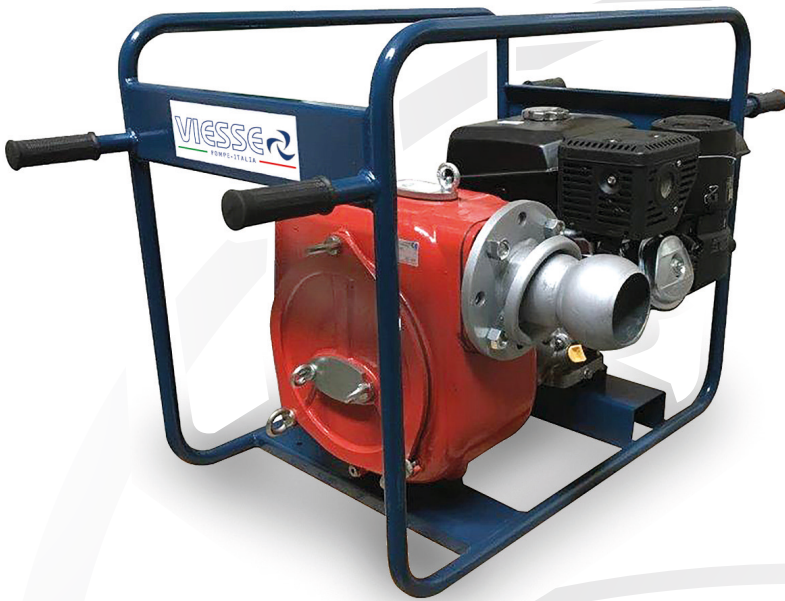
All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF PRIMING ENGINE DRIVEN PUMPS

RB - EASY

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EASY series engine-driven pumps, are light and in Aluminium construction, available in patrol engine of several brands type.

Are designed for emergency situations in case of dewatering slurry water in small basins up to around 1.000 m³.

The main EASY series feature is the possibility to be inspected, cleaned and maintained with an extreme simpleness even on the same working spot

Two small inspection hatches (2) placed on the upper and front pump side can be easily opened without the need of any tools and allows the complete internal pump body view

A great wide opening (1), as well, easy to disassemble without any tools, allows the extraction of the internal pump component, volute included, as to easily carry out a deep and complete cleaning.

Eventually, by mean of few standard tool, it is easily possible to replace all worn out pump parts: volute, impeller and mechanical seal. Moreover, the in-line position of the suction and delivery ports has facilitated this feature.

In case of emergency.

The pump self-priming system is given by air jabbering in the pump body and, thanks to the particular casing interaction with the volute, it is quick and reliable.

Pump standard construction is anticorodal aluminium which is suitable for marine applications, the pump Volute and impeller are in abrasion resistant tempered aluminium.

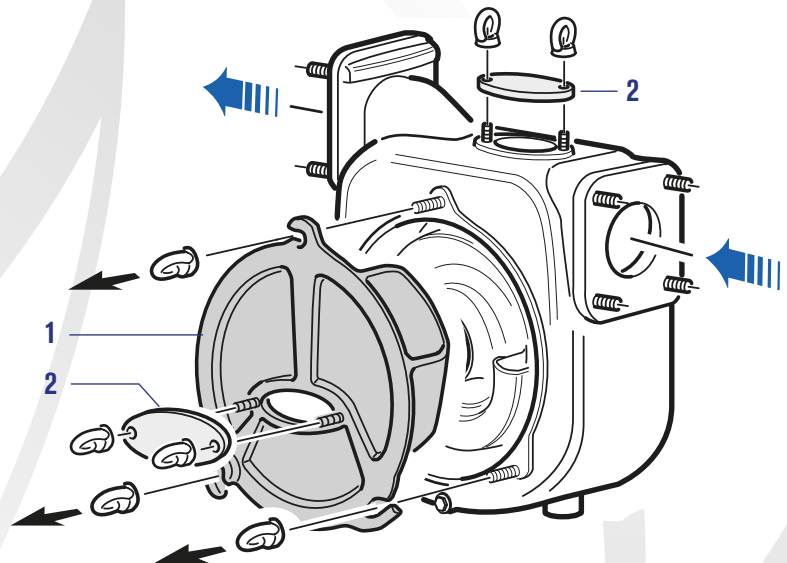
Inspection window opening without the need of any tools or pipeline disconnection.

The internal Volute is easily replaceable.

Pump on tubular frame with patrol engine.

FEATURES

- ✓ Self-priming centrifugal engine-driven pumps suitable for pumping sewage, slurry and liquids, containing abrasive materials.
- ✓ Made in Anticorodal Aluminium construction, suitable for marine applications and with modular body design.
- ✓ Armored Volute assembled without any internal screws, interchangeable, made in tempered aluminium and abrasion resistant.
- ✓ Open blades impeller in Aluminium material of construction, abrasion resistant with wide solids passage.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Normalized flanged inlets/outlets.
- ✓ Wide inspection window for internal deep cleaning and maintenance.
- ✓ Wide hatches for internal inspection.
- ✓ Motor with built in tank and pump, are assembled on a light tubular base frame, equipped with lifting handles for transportation.



SELF PRIMING ENGINE DRIVEN PUMPS

RB - EASY

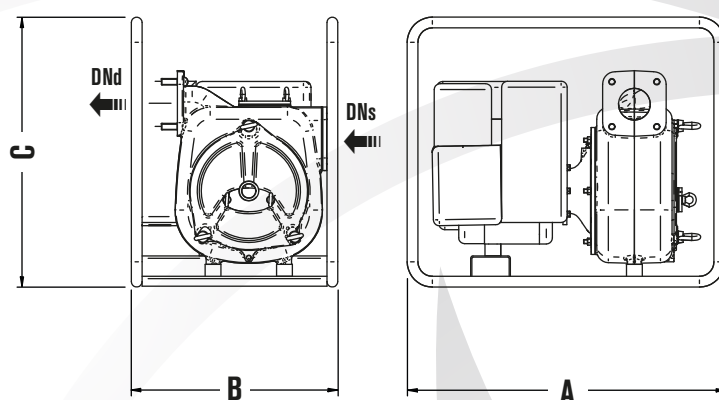
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SELECTION

TYPE	CODE	PORTS	SOLIDS	MOTOR		RPM	POW.	STARTING	FLOW m³/h					
		mm	mm				kW		MANOM. HEAD m	20	40	60	80	100
RB316	RB316BALKH39+G	80 3"	27x34	Lombardini Kohler	CH390	3000	5.4	A ¹		22	18	14	9	
	RB316AALKH44+G				CH440	3400	8.8	A		32.5	29	25	19	12
										40	60	90	120	150
RB416	RB416BALKH44+G	100 4"	50x30	Lombardini Kohler	CH440	3000	8.3	A		22	21	18	14	8.5

¹ A = Starting system: recoil



DIMENSIONS mm - WEIGHT						
	DNs	DNd	A	B	C	kg
RB316A+G	80	80	800	600	700	80
RB316B+G	80	80	800	600	700	70
RB416B+G	100	100	800	600	700	85

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF PRIMING ENGINE DRIVEN PUMPS

RB

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+T



+TT

For construction or continuous works.

Its particular pump body's design allows the self-priming without the need for pre-filling of liquid in the pipes and avoiding the need of a foot valve installation.

The pump self-priming system is given by air jabbing in the pump body and, thanks to the particular casing interaction with the Volute, it is quick and reliable.

FEATURES

- ✓ Self-priming centrifugal engine-driven pumps suitable for pumping sewage, slurry and liquids, containing abrasive materials.
- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal and interchangeable, volute, made in abrasion resistant nodular cast iron.
- ✓ Open-blade nodular cast iron impeller with large solids passage.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Normalized flanged inlets/outlets.
- ✓ Wide hatches for internal inspection.
- ✓ Diesel engine motor generously oversized, assembled on light manually-driven trailer (+T) or with heavy type trailer (+TT), with built-in tank.

SELF PRIMING ENGINE DRIVEN PUMPS

RB - RW

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All Robusta engine-driven pumps can be assembled on road approved trailers and all technical characteristics and pump performances are kept the same.

To size the most suitable trailers, please refer to the table chart accordingly, where it is listed the most common possible pump-trailer selection, including accessories.

In case it is mentioned two different sizes, the first one is relative to the engine-driven pump complete with standard accessories (6 m length suction pipe along with a 10 m delivery flexible hose), the second one, it is advised in case of many accessories transportation.



SELF PRIMING ENGINE DRIVEN PUMPS

RB



SELECTION

TYPE	CODE	PORTS	SOLIDS	MOTOR	RPM	POW.	STARTING	FLOW m³/h					
		mm	mm			kW		MANOMETRIC HEAD m	10	20	30	40	50
RB216	RB216BGLD35+T	50 2"	25x22	Lombardini 15LD350	3600	5.2	A ²		37	34	29	21	11
	RB216AGLD44+T			Lombardini 15LD440	3400	7.2	A		41	39	33	25	15
RB220	RB220BGLD50+T		40x30	Lombardini 15LD500	3200	8	A		42	41	39	34	25
	RB220AGLD33+TE			Lombardini 25LD330-2	3200	10	E		55	53	52	48	41
RB316	RB316BGLD35+T	80 3"	35x25	Lombardini 15LD350	3000	4.5	A		20	40	60	80	100
	RB316AGLD44+T			Lombardini 15LD440	3200	6.5	A		21	18	14	8	3
	RB320		RB320BGLD50+T	40x35	Lombardini 15LD500	2800	7.5		A	29	26	21	15
RB320AGLD42+TE			Lombardini 25LD425-2		3000	11.5	E ¹		23	33	19	16	10
RB325	RB325AGS/LD62+TE		30x15	Lombardini 9LD626-2	2800	21	E		32	31	28	25	21
	RB325OGS/LDW16+TE			Lombardini LDW1603	3000	29.5	E		40	60	80	100	140
	RB416	RB416BGLD33+TE	100 4"	50x30	Lombardini 25LD330-2	2800	8.7		E	44	41	37	30
RB416AGLD42+TE		Lombardini 25LD425-2			2900	11	E		58	54	50	45	27
RB425		RB425BGS/LDW14+TE			100 4"	50x24	Lombardini LDW1404		2800	21	E	60	90
	RB425AGS/Y388+TE	Yanmar 3TNV88	2700	26			E		26.5	24	19.5	14	4.5
	RB425AGS/Y488+TE	Yanmar 4TNV88	2900	34			E		21	18	14	8	-
RB425	RB425BGS/LDW14+TE	100 4"	50x24	Lombardini LDW1404	2800	21	E	60	90	120	150	200	
	RB425AGS/Y388+TE			Yanmar 3TNV88	2700	26	E	40	36	30	21	19	
	RB425AGS/Y488+TE			Yanmar 4TNV88	2900	34	E	43	39	33	26	12	
RB425	RB425BGS/LDW14+TE	100 4"	50x24	Lombardini LDW1404	2800	21	E	51	46	40	33	20	
	RB425AGS/Y388+TE			Yanmar 3TNV88	2700	26	E						
	RB425AGS/Y488+TE			Yanmar 4TNV88	2900	34	E						

¹ E = Starting system: electric

² A = Starting system: recoil

SELF PRIMING ENGINE DRIVEN PUMPS

RB



SELECTION

TYPE	CODE	PORTS	SOLIDS	MOTOR	RPM	POW.	STARTING	FLOW m³/h					
		mm	mm			kW		MANOMETRIC HEAD m	60	90	120	150	180
RB325	RB325BGLD47+TT	80	45x40	Lonbardini 12LD477-2	2000	12	E ¹		24.5	20	15	8	
	RB325AGLD62+TT	3"		Lonbardini 9LD625-2	1800	14.5	E		27	23	18	17	
RB425	RB425BGLD62+TT	100 4"	73x30	Lonbardini 9LD625-2	1800	12.5	E		60	90	120	150	180
	RB425AGY388+TT			Yanmar 3TNV88	2000	21	E		22	20	17	13	8
	RB425AGY488+TT			Yanmar 4TNV88	2200	28	E		37	34	25	18	10
RB431	RB431BGY488+TT	100 4"	50x50	Yanmar 4TNV88	1800	25	E		35	30	25	18	10
	RB431AGY498+TT			Yanmar 4TNV98T	1800	43	E		60	90	120	150	180
	RB431AGY49N+TT ²			Yanmar 4TNV98NS	2000	46	E		37	35	32	29	25
RB625	RB625BGLD62+TT	150 6"	73x50	Lonbardini 9LD625-2	1500	9.5	E		45	42	40	37	33
	RB625BGYN388+TT			Yanmar 3TNV88	1800	21	E		56	53	50	48	44
	RB625AGYN488+TT			Yanmar 4TNV88	1800	25	E		100	150	200	250	300
	RB625AGYN498N+TT ²			Yanmar 4TNV98NS	2000	37	E		16	14	11	9	5
RB831	RB831BGY49N+TT ²	200 8"	78x75	Yanmar 4TNV98NS	1700	41	E		23	22	19	16	12
	RB831BGY498+TT			Yanmar 4TNV98T	1800	43	E		26	25	23	20	17
	RB831AGN4S0+TT			FPT - N45MSSX00.50	1900	65	E		33	31	29	27	23
	RB831AGN6M2+TT			FPT - N67MNTX20.00	2000	100	E		100	200	300	400	500
RB1031	RB1031AGY498+TT	250 10"	85x85	Yanmar 4TNV98T	1500	43	E		28	26	22	18	14
	RB1031BGY49N+TT ²			Yanmar 4TNV98NS	1600	39	E		32	29	26	22	16
	RB1031BGN4S0+TT			FPT - N45MSSX00.50	1900	65	E	42	40	36	32	27	
	RB1031AGN4T2+TT			FPT - N45MSSX00.50	1900	79	E	46	44	41	37	32	
									300	400	500	600	700
									23	20	17	13	8
									23	20	17	13	8
									35	32	28	24	19
									40	36	33	29	24

¹ E = Starting system: electric

² A = Starting system: recoil

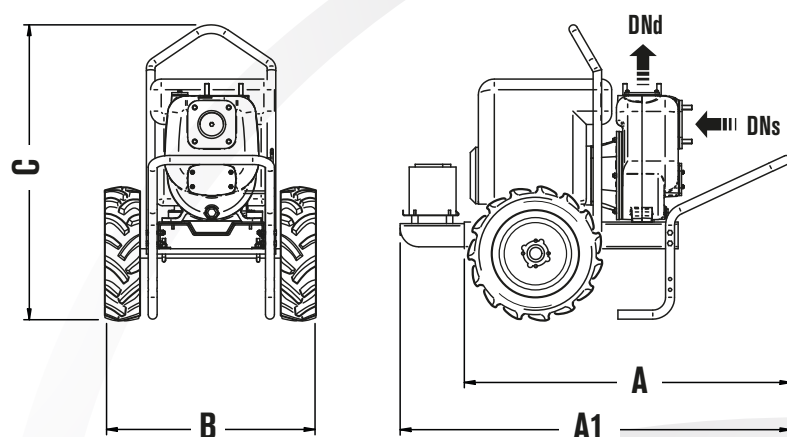
SELF PRIMING ENGINE DRIVEN PUMPS

RB

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Hydraulic System

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DIMENSIONS

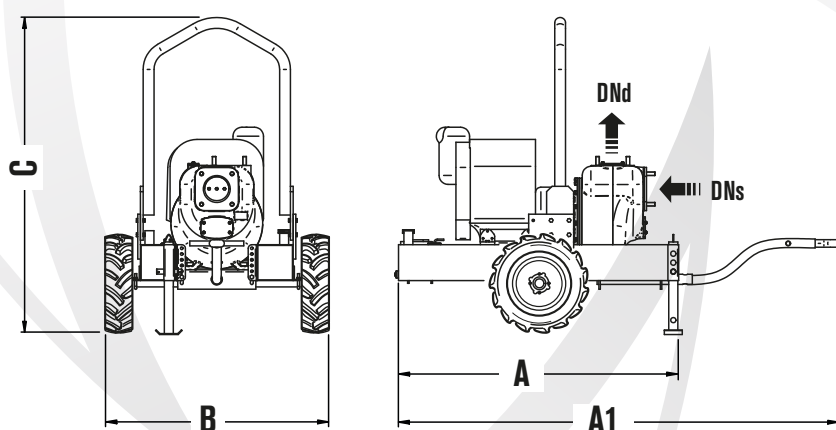


+T

DIMENSIONS mm

	DNs	DNd	A	A1	B	C
RB216+T	50	50	1000	770	585	1000
RB220+T	50	50	1430	1200	820	1100
RB316+T	80	80	860	830	590	1000
RB320+T	80	80	1430	1200	820	1100
RB325+T	80	80	1600	-	960	1100
RB425+T	100	100	1430	-	820	1100
RB425+T	100	100	1600	-	960	1100

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



+TT

DIMENSIONS mm

	DNs	DNd	A	A1	B	C
RB325+TT	80	80	160	280	140	150
RB425+TT	100	100	160	280	140	150
RB431+TT	100	100	160	280	140	150
RB625+TT	150	150	160	280	140	150
RB831+TT	200	200	220	340	160	160
RB1031+TT	250	250	220	340	160	160

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SELF PRIMING ENGINE DRIVEN PUMPS

RB

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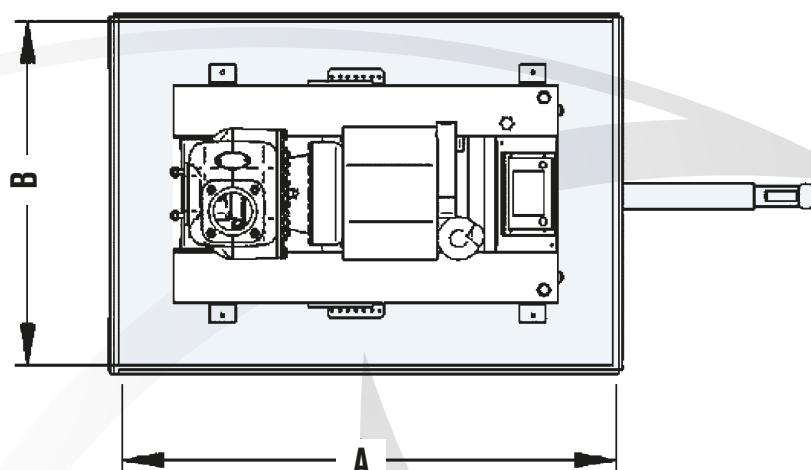
SELECTION

TYPE	CODE	PORTS	SOLIDS	MOTOR	RPM	POW.	STARTING	RECOMMENDED TRAILER
		mm	mm		N.	kW		TYPE
RB316	"EASY"	80	27x34	Any type ³				A
RB416	"EASY"	100	50x30	Any type ³				A
	RB416AGLD42+TE			Lombardini 25LD425-2	2900	11	E ¹	A - B
RB425	RB425BGLD62+TT	4"	73x30	Lombardini 9LD625-2	1800	12.5	E	D - E
	RB425AGY388+TT			Yanmar 3TNV88	2000	21	E	C - D
RB625	RB625BGLD62+TT	150	75x45	Lombardini 9LD625-2	1500	9.5	E	D - E
	RB625BGYN388+TT	6"		Yanmar 3TNV88	1800	21	E	C - D
RB831	RB831BGY49N+TT ²	200	78x75	Yanmar 4TNV98NS	1700	43	E	F - G
RB1031	RB1031AGY498+TT	250	85x85	Yanmar 4TNV98T	1500	43	E	G

¹ E = Starting system: electric

² For Extra-UE countries only

³ Check for previous selections



TOTAL WEIGHT - CAPACITY - DIMENSIONS

TYPE	TOTAL WEIGHT	PAYLOAD	NUMBER OF AXLES	TRAILER FRAME DIMENSIONS
	kg	kg	n.	A x B mm
A	600	400	1	1700 x 1400
B	750	600	1	2000 x 1000
C	950	750	1	2200 x 1250
D	1200	950	1	2500 x 1250
E	1500	1200	2	2500 x 1250
F	2000	1600	2	3000 x 1750
G	2500	2100	2	3000 x 1750

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VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW

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Hydraulic System

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For deep and long suction needs.

A vacuum pump is incorporated to the self-priming pump, which device, automatically separate and take out the air coming from the suction.

The main application suitability is found in case of long suction pipes installations or in wellpoints groundworks (water lowering).

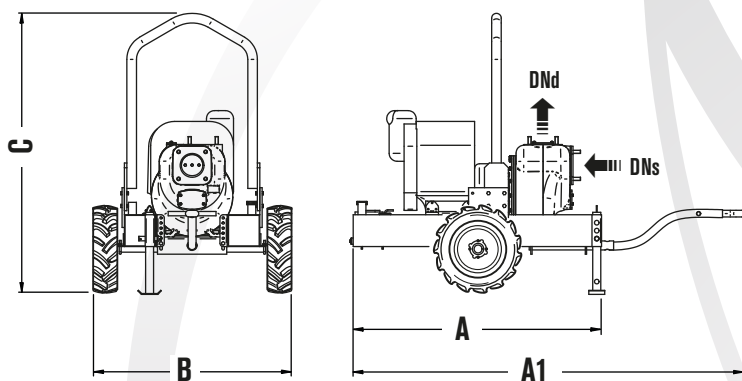
FEATURES

- ✓ Self-priming vacuum-assisted pump with volumetric depressor.
- ✓ Quick and safe priming in any conditions, even with long and deep suction.
- ✓ EN-JL1030 cast iron construction according to UNI EN 1561.
- ✓ Closing disk and armored volute are screw-less and interchangeable.
- ✓ Open-blade nodular cast iron impeller with large solids passage.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Normalized flanged inlets/outlets.
- ✓ Wide hatches for internal inspection.
- ✓ Heavy trailer slow speed type, suitable for manually driven or by any earth-moving equipments. Large built in fuel tank for longer working time.

SELECTION

TYPE	CODE	PORTS	SOLIDS	MOTOR	RPM	POW.	STARTING	FLOW m³/h					
		mm	mm			kW		MANOMETRIC HEAD m	30	60	90	120	150
RW425	RW425BGS4/LD62+TT	100 4"	73x30	Lombardini 9LD625-2	1800	12.5	E ¹		24	23	20	17	13
	RW425AGS4/Y388+TT			Yanmar 3TNV88	2000	21	E		30	28	26	22	18
	RW425AGS4/Y488+TT			Yanmar 4TNV88	2200	28	E		36	35	32	28	24
RW625	RW625BGS4/LD62+TT	150 6"	75x50	Lombardini 9LD625-2	1500	9.5	E		100	200	250	300	350
	RW625BGS4/YN388+TT			Yanmar 3TNV88	1800	21	E		16	11	9	5	
	RW625AGS4/YN488+TT			Yanmar 4TNV88	1800	25	E		23	20	16	12	18
	RW625AGS4/YN498N+TT ²			Yanmar 4TNV88	1800	25	E		26	23	20	17	14
				Yanmar 4TNV98NS	2000	17	E		33	29	27	23	20
RW831	RW831BGY49N+TT ²	200 9"	78x75	Yanmar 4TNV98NS	1700	41	E		100	200	300	400	500
	RW831BGY498+TT			Yanmar 4TNV98T	1800	43	E		28	26	22	18	14
	RW831AGN4S0+TT			FPT - N67MNTX20.00	1900	65	E		32	29	26	21	17
RW1031	RW1031AGS4/Y498+TT	250 10"	85x85	Yanmar 4TNV98T	1500	43	Elett.		42	40	36	32	27
	RW1031BGS4/Y49N+TT ²			Yanmar 4TNV98NS	1600	39	Elett.	100	200	300	400	500	
	RW1031BGS4/N4S0+TT			FPT - N45MSSX00.50	1900	65	Elett.	28	26	23	20	17	
	RW1031AGS4/N4T2+TT			FPT - N45MSTX20.50	1900	79	Elett.	40	38	35	32	28	

¹ E = Starting system: electric

² Stage 2 Motor, not allowed for UE markets


DIMENSIONS mm

	DNs	DNd	A	A1	B	C
RW425+TT	100	100	220	340	160	160
RW625+TT	150	150	220	340	160	160
RW831+TT	200	200	220	340	160	160
RW1031+TT	250	250	220	340	160	180

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.

SELF PRIMING ENGINE DRIVEN PUMPS

RB216

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB216BGLD35+T	RB216AGLD44+T
PUMP		
RPM	3600	3400
P MAX pump (kW)	5.2	7.2
Q MAX (m³/h)	50	50
H MAX (m)	36	41
Ø Inlet/outlet DN (mm - ")	50 (2")	50 (2")
Ø Impeller (mm)	140	158
Free solids passage MAX size (mm)	25 x 22	25 x 22
ENGINE DRIVEN		
Brand	Lombardini 15LD350	Lombardini 15LD440
N. cylinders	1	1
Displacement (cc)	349	442
Motor power - MAX (kW)	5.5	8.1
Cooling	Air	Air
Fuel	Diesel	Diesel
Starting system	Recoil *	Recoil *
PUMP SET UP AVAILABLE		
Coupling versions	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	4.3	5.0
Total weight version +T (kg) **	90	102
Base frame (+B)	✓	✓
Trailer (+T) simple version manually-driven	✓	✓

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armoured volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged rapid coupling



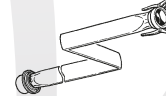
90° bend



Suction hose with coupling and strainer



Delivery flexible hose with couplings



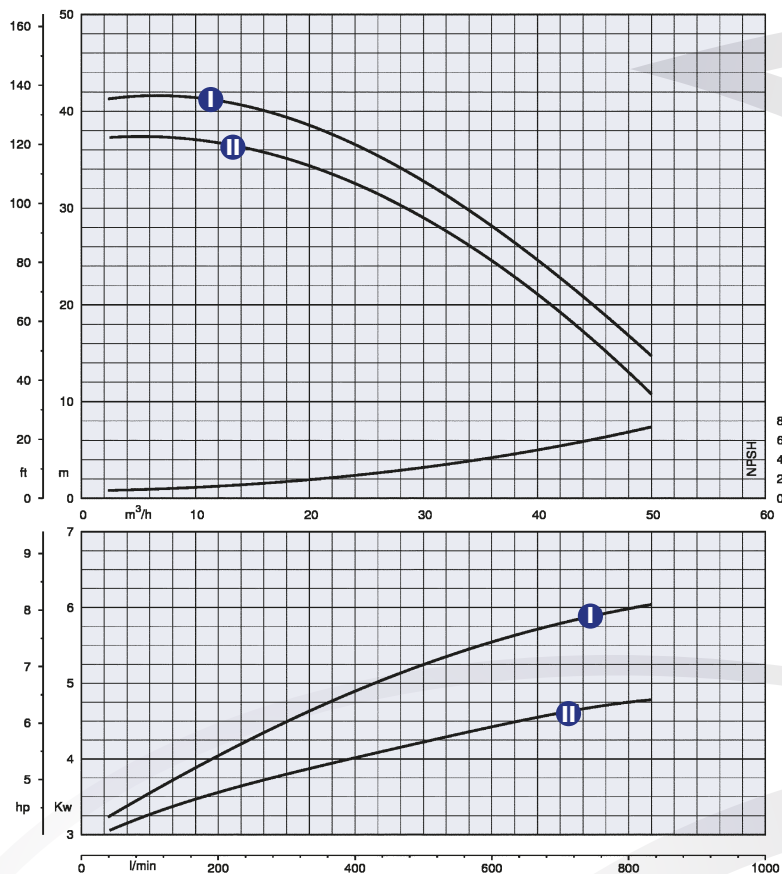
* Version with electric start available on trolley (+TE) - Version with electric start available on base frame (+BE)
** Empty tank.

SELF PRIMING ENGINE DRIVEN PUMPS

RB216

ROBUSTA
Hydraulic System

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RB 216 revision: 17-06-20

PUMP PERFORMANCE RANGE

I RB216AGLD44+T

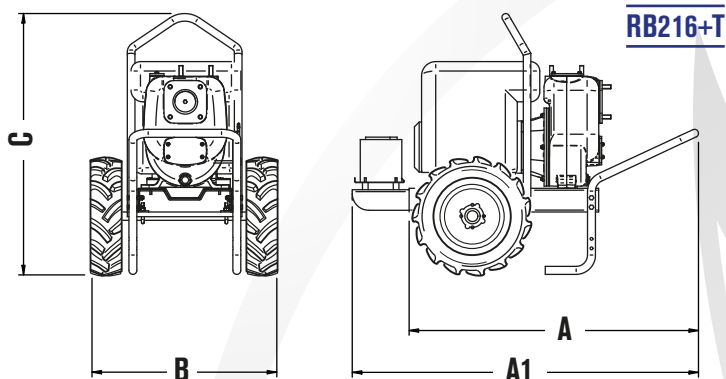
II RB216BGLD35+T

Performances are subjected to variations based on NPSH available.

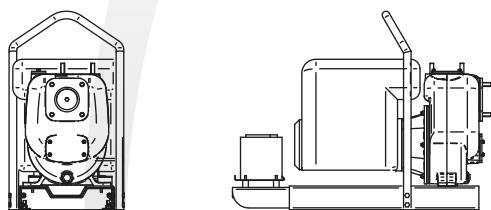
DIMENSIONS mm

	A	A1	B	C
Version +T	1000	770	585	1000

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



RB216+B



SELF PRIMING ENGINE DRIVEN PUMPS

RB220

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB220BGLD50+T	RB220AGLD33+TE
PUMP		
RPM	3200	3200
P MAX pump (kW)	8	10
Q MAX (m³/h)	50	50
H MAX (m)	44	55
Ø Inlet/outlet DN (mm - ")	50 (2")	50 (2")
Ø Impeller (mm)	170	192
Free solids passage MAX size (mm)	40 x 30	40 x 30
ENGINE DRIVEN		
Brand	Lombardini 15LD500	Lombardini 25LD330-2
N. cylinders	1	2
Displacement (cc)	505	654
Motor power - MAX (kW)	8.8	12
Cooling	Air	Air
Fuel	Diesel	Diesel
Starting system	Recoil *	Electric
PUMP SET UP AVAILABLE		
Coupling versions	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	5.0	4.0
Total weight version +T (kg) **	110	130
Base frame (+B)	✓	✓
Trailer (+T) simple version manually-driven	✓	✓

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged rapid coupling



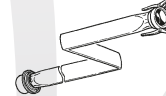
90° bend



Suction hose with coupling and strainer



Delivery flexible hose with couplings



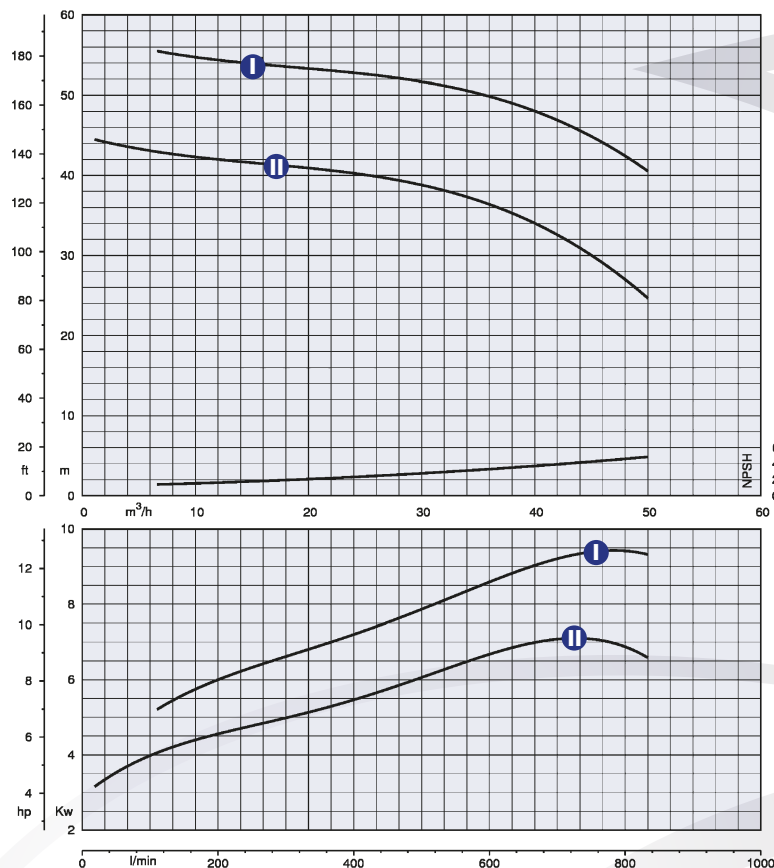
* Version with electric start available on trolley (+TE) - Version with electric start available on base frame (+BE)
** Empty tank.

SELF PRIMING ENGINE DRIVEN PUMPS

RB220

ROBUSTA
Hydraulic System

VIESSE
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RB 220 revision: 17-06-20

PUMP PERFORMANCE RANGE

I **RB220AGLD33+TE**

II **RB220BGLD50+T**

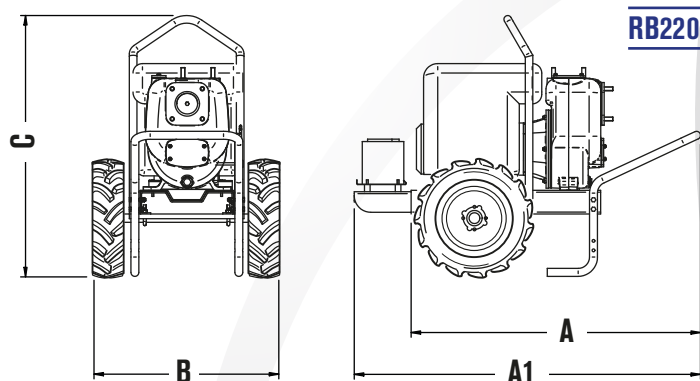
Performances are subjected to variations based on NPSH available.

RB220+T

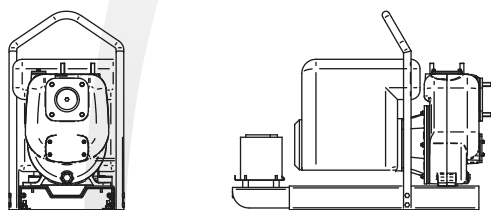
DIMENSIONS mm

	A	A1	B	C
Version +T	1430	1200	820	1100

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



RB220+B



SELF PRIMING ENGINE DRIVEN PUMPS

RB316 EASY

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ Made in Anticorodal Aluminium construction, suitable for marine applications and with modular body design.
- ✓ Armored Volute assembled without any internal screws, it is interchangeable, made in tempered aluminium and abrasion resistant.
- ✓ Open blades impeller in Aluminium material of construction, abrasion resistant with wide solids passage.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Normalized flanged inlets/outlets
- ✓ Wide inspection window for internal deep cleaning and maintenance.
- ✓ Wide hatches for internal inspection.
- ✓ Motor with built in tank and pump, are assembled on a light tubular base frame, equipped with lifting handles for transportation.

VERSIONS

Code	RB316BALKH39+G	RB316AALKH44+G
PUMP		
RPM	3000	3400
P MAX pump (kW)	5.4	8.8
Q MAX (m³/h)	95	100
H MAX (m)	23	34
Ø Inlet/outlet DN (mm - ")	80 (3")	80 (3")
Ø Impeller (mm)	138	146
Free solids passage MAX size (mm)	27 x 34	27 x 34
ENGINE DRIVEN		
Brand	Lombardini - Kohler CH390	Lombardini - Kohler CH440
N. cylinders	1	1
Displacement (cc)	277	429
Motor power - MAX (kW)	7.1	10.5
Cooling	Air	Air
Fuel	Petrol	Petrol
Starting system	Recoil	Recoil
PUMP SET UP AVAILABLE		
Coupling versions	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	7	7
Total weight (kg) **	70	80
Tubular light weight carrying frame	✓	✓

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Anticorodal Aluminium
Armored volute	Self-hardening Aluminium
Open-blade impeller	Self-hardening Aluminium
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

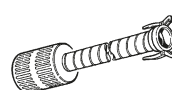
Special metallurgies available on demand.

OPTIONAL ACCESSORIES

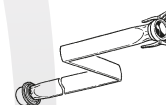
Flanged
rapid coupling



Suction hose with
coupling and strainer



Delivery flexible hose
with couplings

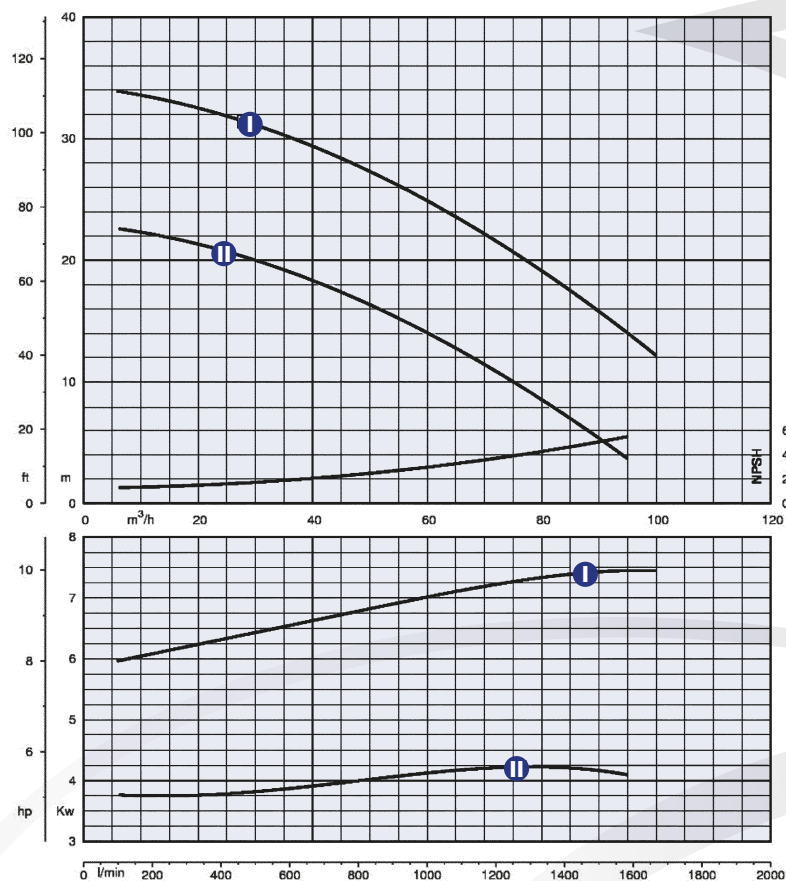


SELF PRIMING ENGINE DRIVEN PUMPS

RB316 EASY

ROBUSTA
Hydraulic System

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RB 316 revision: 11-04-07

PUMP PERFORMANCE RANGE

I RB316AALKH44+G

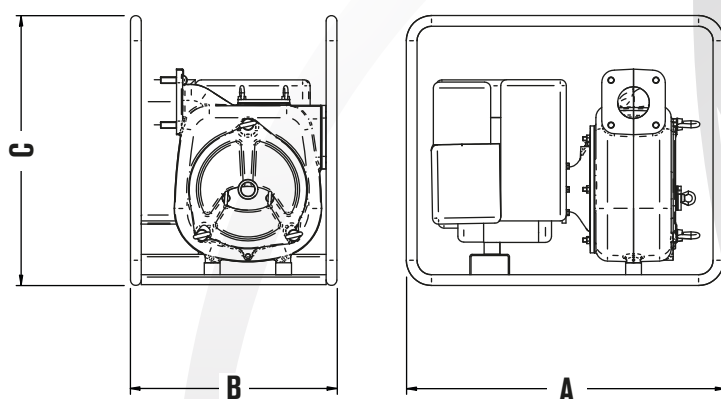
II RB316BALKH39+G

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	B	C
Version +G	800	600	700

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB316

ROBUSTA
Hydraulic System

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The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB316BGLD35+T	RB316AGLD44+T
PUMP		
RPM	3000	3200
P MAX pump (kW)	4.5	6.5
Q MAX (m³/h)	100	100
H MAX (m)	23	30
Ø Inlet/outlet DN (mm - ")	80 (3")	80 (3")
Ø Impeller (mm)	138	146
Free solids passage MAX size (mm)	35 x 25	35 x 25
ENGINE DRIVEN		
Brand	Lombardini 15LD350	Lombardini 15LD440
N. cylinders	1	1
Displacement (cc)	349	442
Motor power - MAX (kW)	5.5	8.1
Cooling	Air	Air
Fuel	Diesel	Diesel
Starting system	Recoil *	Recoil *
PUMP SET UP AVAILABLE		
Coupling versions	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	4.3	5.0
Total weight version +T (kg) **	130	125
Base frame (+B)	✓	✓
Trailer (+T) simple version manually-driven	✓	✓

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged rapid coupling



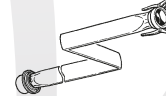
90° bend



Suction hose with coupling and strainer



Delivery flexible hose with couplings



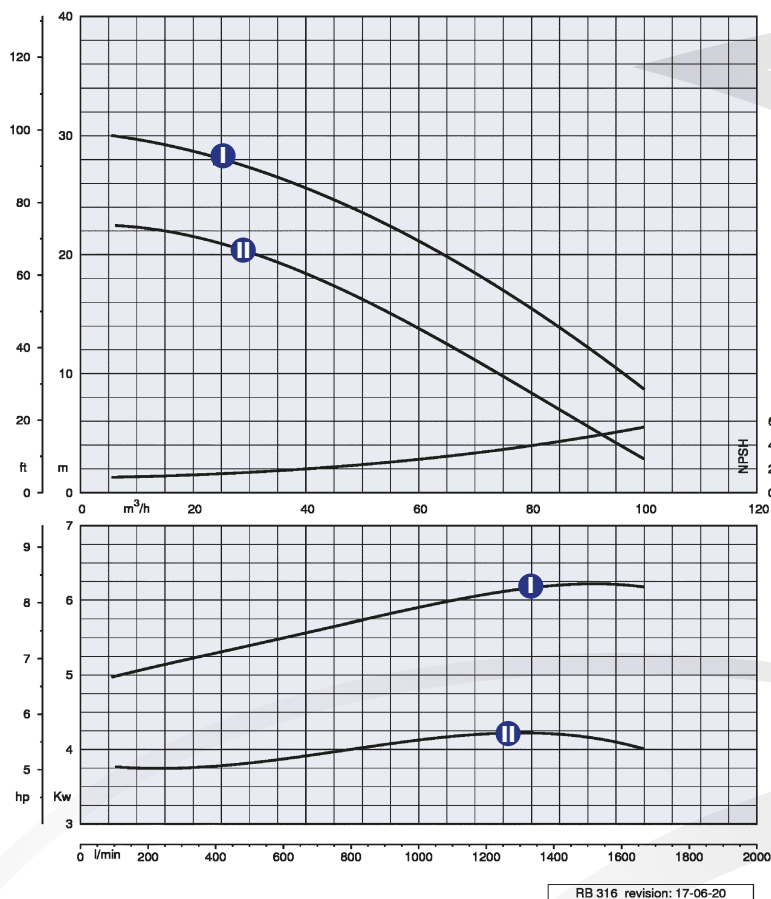
* Version with electric start available on trolley (+TE) - Version with electric start available on base frame (+BE)
** Empty tank.

SELF PRIMING ENGINE DRIVEN PUMPS

RB316

ROBUSTA
Hydraulic System

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PUMP PERFORMANCE RANGE

I RB316AGLD44+T

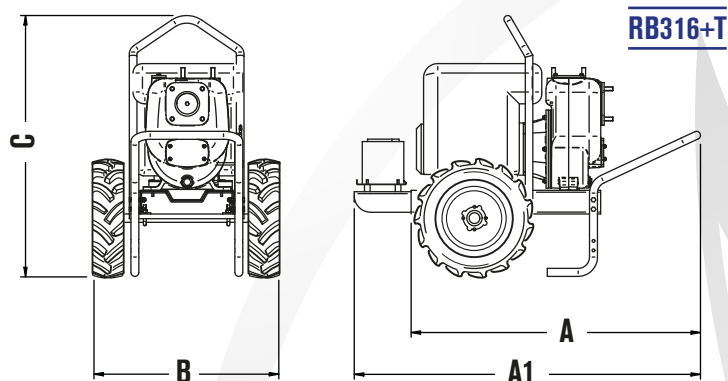
II RB316BGLD35+T

Performances are subjected to variations based on NPSH available.

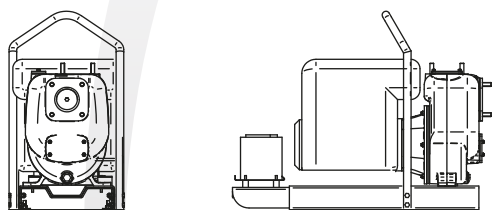
DIMENSIONS mm

	A	A1	B	C
Version +T	860	830	590	1000

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



RB316+T



RB316+B

SELF PRIMING ENGINE DRIVEN PUMPS

RB320

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB320BGLD50+T	RB320AGLD42+TE
PUMP		
RPM	2800	3000
P MAX pump (kW)	7.5	11.5
Q MAX (m³/h)	110	120
H MAX (m)	24	33
Ø Inlet/outlet DN (mm - ")	80 (3")	80 (3")
Ø Impeller (mm)	162	178
Free solids passage MAX size (mm)	40 x 35	40 x 35
ENGINE DRIVEN		
Brand	Lombardini 15LD500	Lombardini 25LD425-2
N. cylinders	1	2
Displacement (cc)	505	654
Motor power - MAX (kW)	8.8	14
Cooling	Air	Air
Fuel	Diesel	Diesel
Starting system	Recoil *	Electric
PUMP SET UP AVAILABLE		
Coupling versions	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	5.0	4.0
Total weight version +T (kg) **	140	170
Base frame (+B)	✓	✓
Trailer (+T) simple version manually-driven	✓	✓

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged rapid coupling



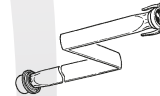
90° bend



Suction hose with coupling and strainer



Delivery flexible hose with couplings



* Version with electric start available on trolley (+TE) - Version with electric start available on base frame (+BE)

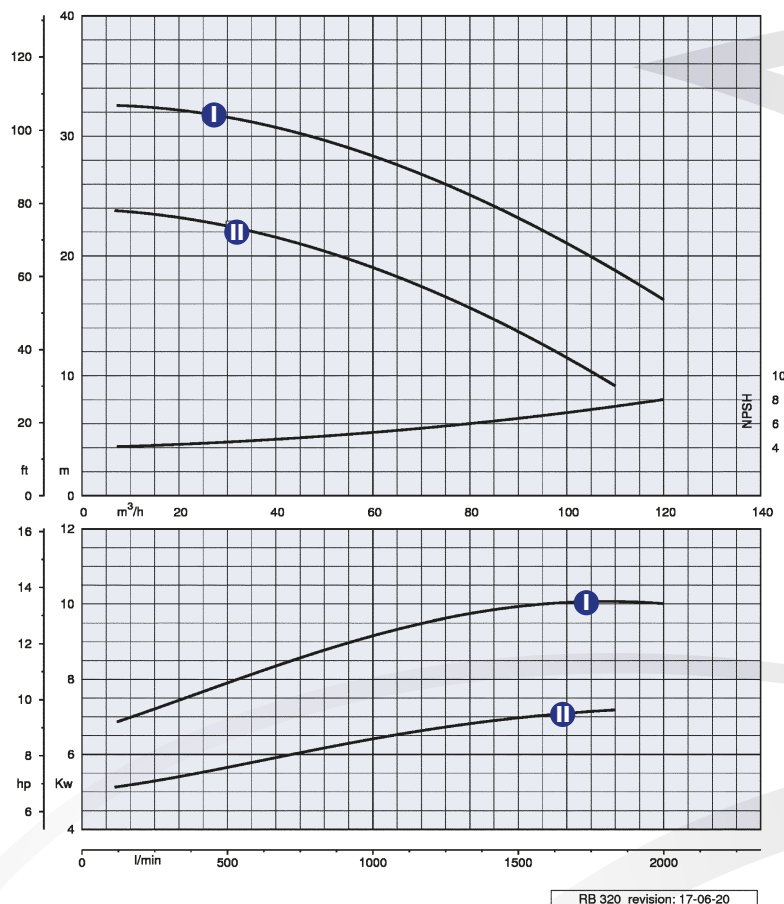
** Empty tank.

SELF PRIMING ENGINE DRIVEN PUMPS

RB320

ROBUSTA
Hydraulic System

VIESSE
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PUMP PERFORMANCE RANGE

I RB320AGLD42+TE

II RB320BGLD50+T

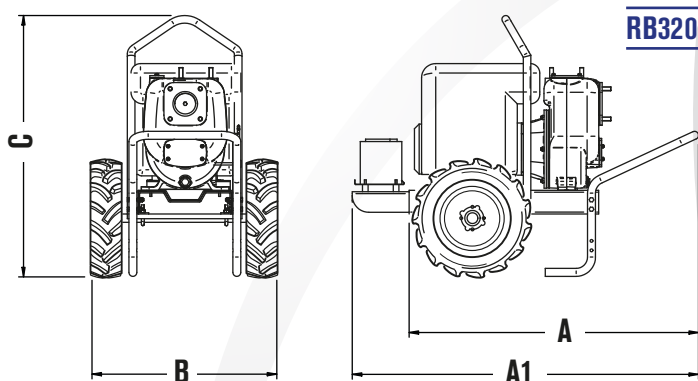
Performances are subjected to variations based on NPSH available.

RB320+T

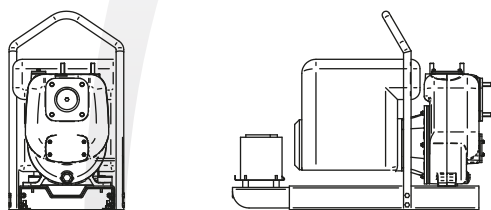
DIMENSIONS mm

	A	A1	B	C
Version +T	1430	1200	820	1100

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



RB320+B



SELF PRIMING ENGINE DRIVEN PUMPS

RB325

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB325AGS/LD62+TE	RB3250GS/LDW16+TE
PUMP		
RPM	2800	3000
P MAX pump (kW)	21	29.5
Q MAX (m³/h)	140	140
H MAX (m)	54	65
Ø Inlet/outlet DN (mm - ")	80 (3")	80 (3")
Ø Impeller (mm)	230	246
Free solids passage MAX size (mm)	30 x 15	30 x 15
ENGINE DRIVEN		
Brand	Lombardini 9LD626-2	Lombardini LDW1603
N. cylinders	2	3
Displacement (cc)	1248	1649
Motor power - MAX (kW)	21	30
Cooling	Air	Air
Fuel	Diesel	Diesel
Starting system	Electric *	Electric *
PUMP SET UP AVAILABLE		
Coupling versions	Flexible joint	Flexible joint
Tank capacity (L)	10	10
Total weight version +TE (kg) **	360	400
Base frame (+B)	✓	✓
Trailer (+T) simple version manually-driven	✓	✓

* Version with electric start available on base frame (+BE)

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged rapid coupling



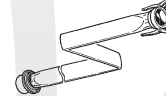
90° bend



Suction hose with coupling and strainer



Delivery flexible hose with couplings

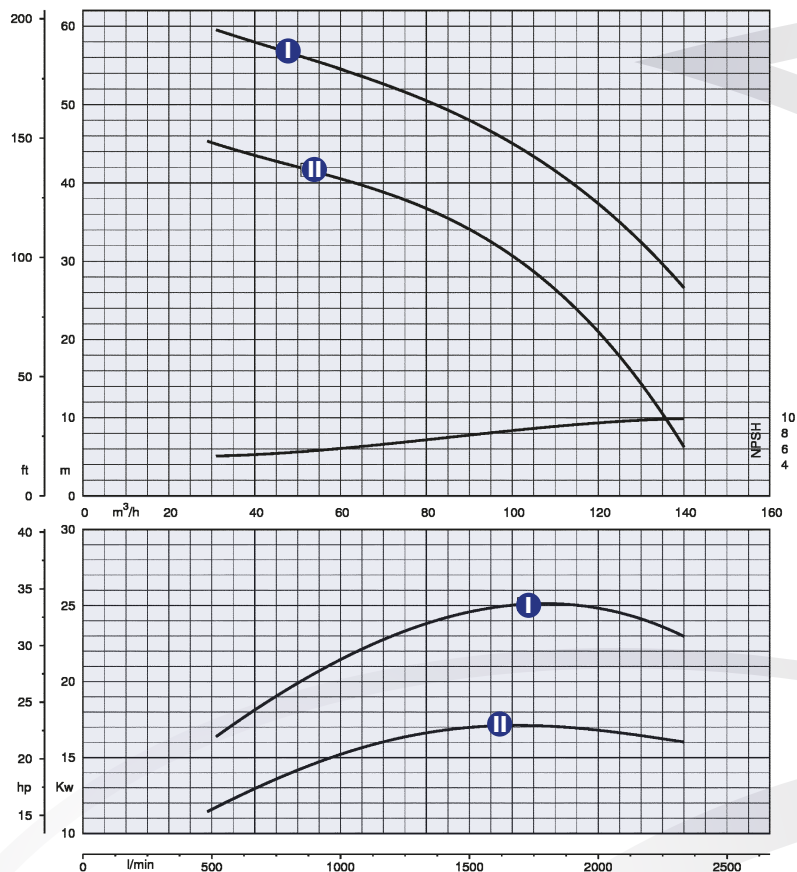


SELF PRIMING ENGINE DRIVEN PUMPS

RB325

ROBUSTA
Hydraulic System

VIESSE
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RB 325 revision: 17-06-20

PUMP PERFORMANCE RANGE

I RB3250GS/LDW16+TE

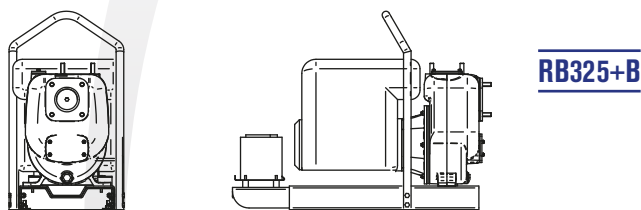
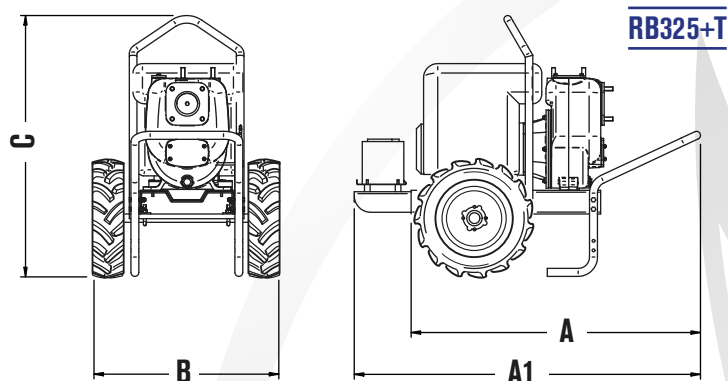
II RB325AGS/LD62+TE

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +T	1600	-	960	1100

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB325 L*

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB325BGLD47+TT	RB325AGLD62+TT
PUMP		
RPM	2000	1800
P MAX pump (kW)	12	14.5
Q MAX (m³/h)	150	150
H MAX (m)	28	30
Ø Inlet/outlet DN (mm - ")	80 (3")	80 (3")
Ø Impeller (mm)	218	250
Free solids passage MAX size (mm)	45 x 40	45 x 40
ENGINE DRIVEN		
Brand	Lombardini 12LD477-2	Lombardini 9LD625-2
N. cylinders	2	2
Displacement (cc)	954	1248
Motor power - MAX (kW)	17	21
Cooling	Air	Air
Fuel	Diesel	Diesel
Starting system	Electric	Electric
PUMP SET UP AVAILABLE		
Coupling versions	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	120	120
Total weight version +TT (kg) **	270	300
Base frame with tank (+BT)	✓	✓
Tank trailer (+TT)	✓	✓
heavy type manually-driven		

* Low speed version

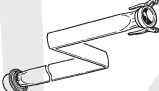
** Empty tank

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

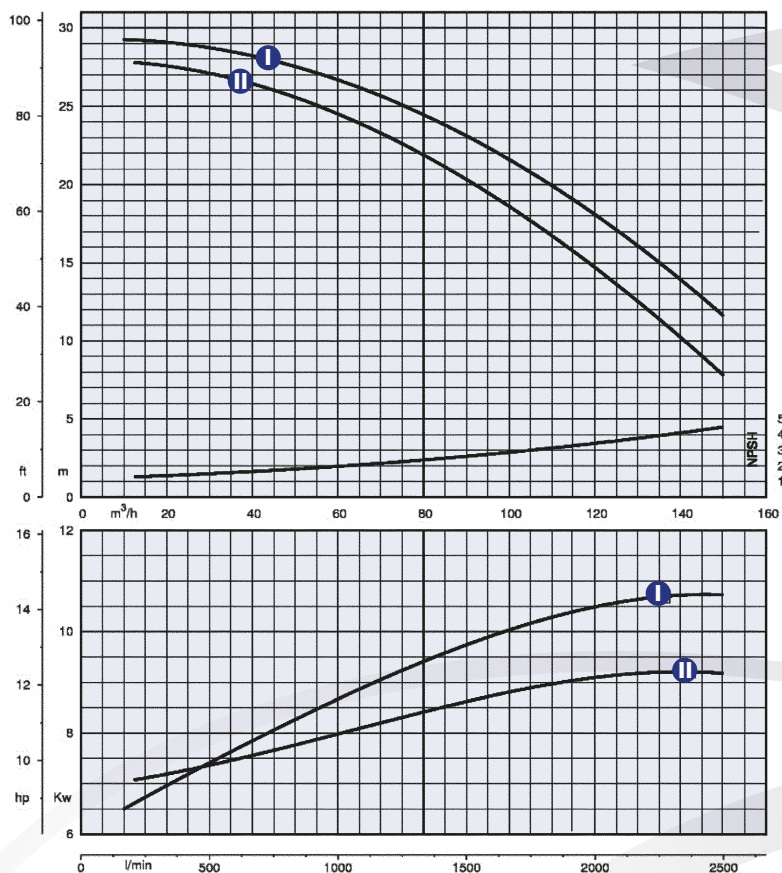
Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

SELF PRIMING ENGINE DRIVEN PUMPS

RB325 L

ROBUSTA
Hydraulic System

VIESSE
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RB 325L revision: 11-04-07

PUMP PERFORMANCE RANGE

I RB325AGLD62+TT

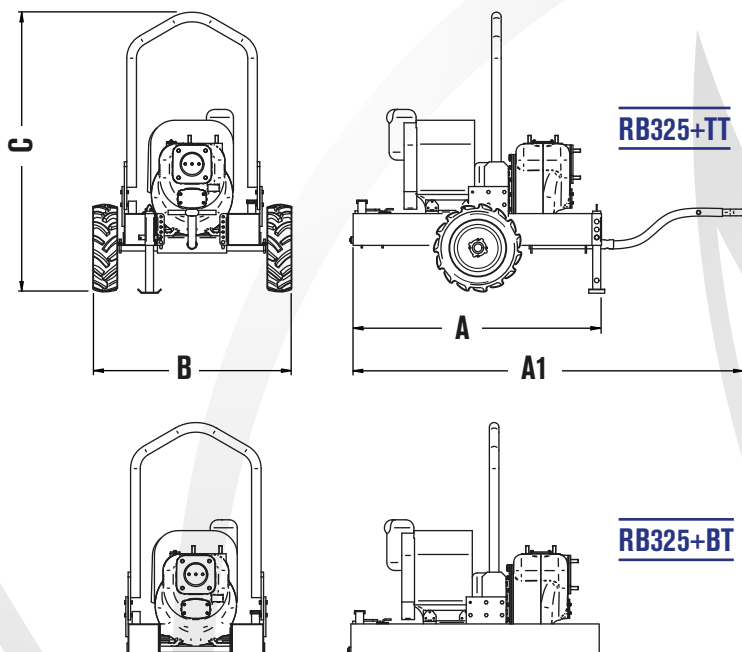
II RB325BGLD47+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	160	280	140	150

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB416 EASY

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ Made in Anticorodal Aluminium construction, suitable for marine applications and with modular body design.
- ✓ Armored Volute assembled without any internal screws, it is interchangeable, made in tempered aluminium and abrasion resistant.
- ✓ Open blades impeller in Aluminium material of construction, abrasion resistant with wide solids passage.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Normalized flanged inlets/outlets
- ✓ Wide inspection window for internal deep cleaning and maintenance.
- ✓ Wide hatches for internal inspection.
- ✓ Motor with built in tank and pump, are assembled on a light tubular base frame, equipped with lifting handles for transportation.

VERSIONS

Code

RB416BALKH44+G

PUMP

RPM	3000
P MAX pump (kW)	8.3
Q MAX (m³/h)	160
H MAX (m)	24
Ø Inlet/outlet DN (mm - ")	100 (4")
Ø Impeller (mm)	148
Free solids passage MAX size (mm)	50 x 30

ENGINE DRIVEN

Brand	Lombardini - Kohler CH440
N. cylinders	1
Displacement (cc)	429
Motor power - MAX (kW)	10.5
Cooling	Air
Fuel	Petrol
Starting system	Recoil

PUMP SET UP AVAILABLE

Coupling versions	Direct / Monobloc
Tank capacity (L)	7.0
Total weight (kg) **	85
Tubular light weight carrying frame	✓

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Anticorodal Aluminium
Armored volute	Self-hardening Aluminium
Open-blade impeller	Self-hardening Aluminium
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

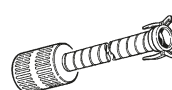
Special metallurgies available on demand.

OPTIONAL ACCESSORIES

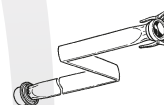
Flanged
rapid coupling



Suction hose with
coupling and strainer



Delivery flexible hose
with couplings

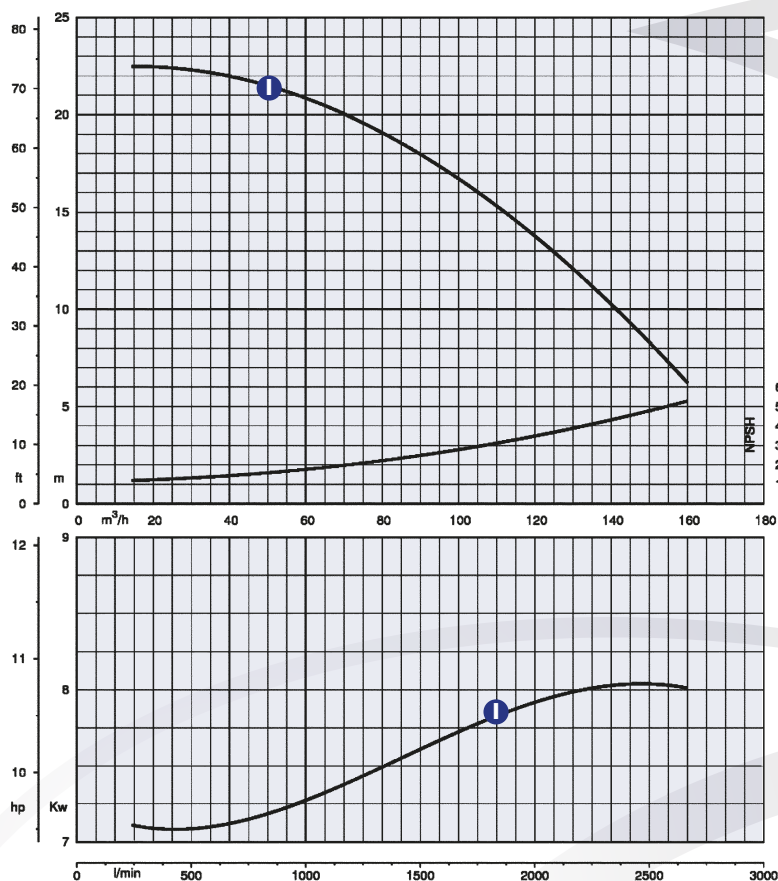


SELF PRIMING ENGINE DRIVEN PUMPS

RB416 EASY

ROBUSTA
Hydraulic System

VIESSE 
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RB 416 revision: 11-04-07

PUMP PERFORMANCE RANGE

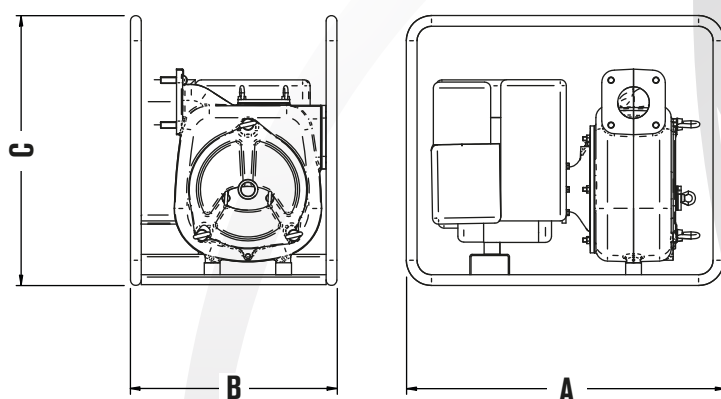
I RB416BALKH44+G

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	B	C
Version +G	800	600	700

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.s



SELF PRIMING ENGINE DRIVEN PUMPS

RB416

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB416BGLD33+TE	RB416AGLD42+TE
PUMP		
RPM	2800	2900
P MAX pump (kW)	8.7	11
Q MAX (m³/h)	160	180
H MAX (m)	23	27
Ø Inlet/outlet DN (mm - ")	100 (4")	100 (4")
Ø Impeller (mm)	148	160
Free solids passage MAX size (mm)	50 x 30	50 x 30
ENGINE DRIVEN		
Brand	Lombardini 25LD330-2	Lombardini 25LD425-2
N. cylinders	2	2
Displacement (cc)	654	654
Motor power - MAX (kW)	12	14
Cooling	Air	Air
Fuel	Diesel	Diesel
Starting system	Electric *	Electric *
PUMP SET UP AVAILABLE		
Coupling versions	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	4	4
Total weight version +T (kg) **	200	205
Base frame (+B)	✓	✓
Trailer (+T) simple version manually-driven	✓	✓

* Version with electric start available on base frame (+BE)

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged rapid coupling



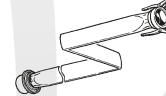
90° bend



Suction hose with coupling and strainer



Delivery flexible hose with couplings

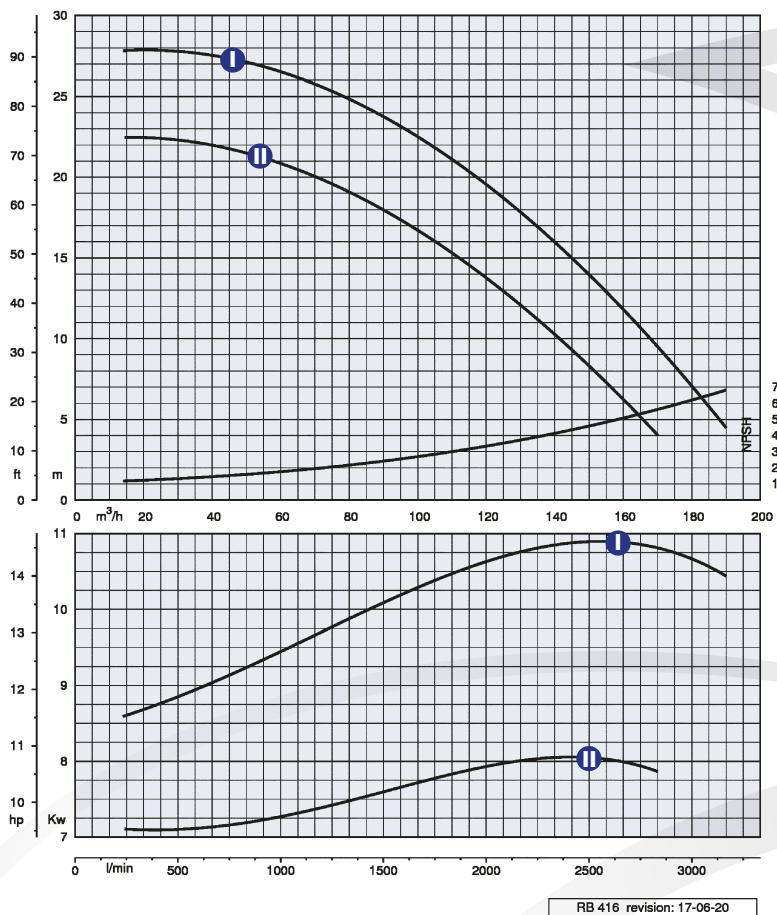


SELF PRIMING ENGINE DRIVEN PUMPS

RB416

ROBUSTA
Hydraulic System

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PUMP PERFORMANCE RANGE

I RB416AGLD42+TE

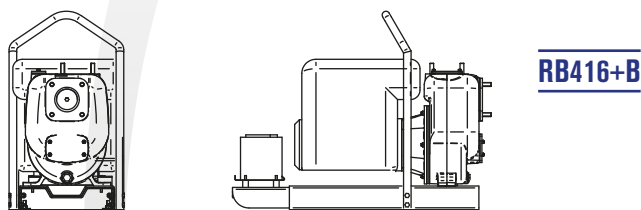
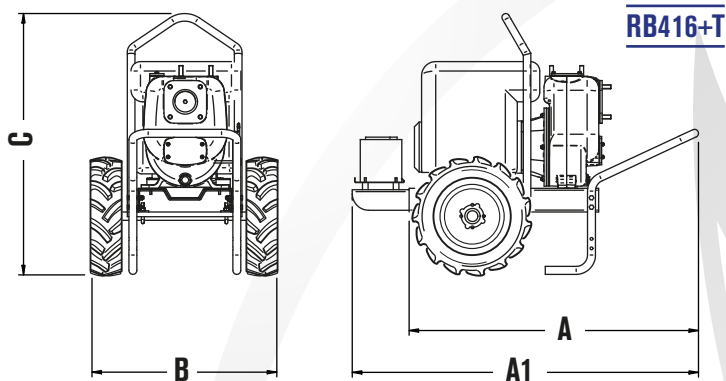
II RB416BGLD33+TE

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +T	1430	-	820	1100

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB425

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB425BGS/LDW14+TT	RB425AGS/Y388+TT	RB425AGS/Y488+TT
PUMP			
RPM	2800	2700	2900
P MAX pump (kW)	21	26	34
Q MAX (m³/h)	200	200	200
H MAX (m)	47	50	58
Ø Inlet/outlet DN (mm - ")	100 (4")	100 (4")	100 (4")
Ø Impeller (mm)	220	240	240
Free solids passage MAX size (mm)	50 x 24	50 x 24	50 x 24

ENGINE DRIVEN

Brand	Lombardini LDW1404	Yanmar 3TNV88	Yanmar 4TNV88
N. cylinders	4	3	4
Displacement (cc)	1372	1642	2190
Motor power - MAX (kW)	26	28.2	35
Cooling	Water	Water	Water
Fuel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Flexible joint	Flexible joint	Flexible joint
Tank capacity (L)	120	120	120
Total weight version +TT (kg) **	450	480	500
Base frame with tank (+BT)	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓
heavy type manually-driven			

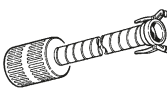
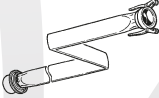
** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

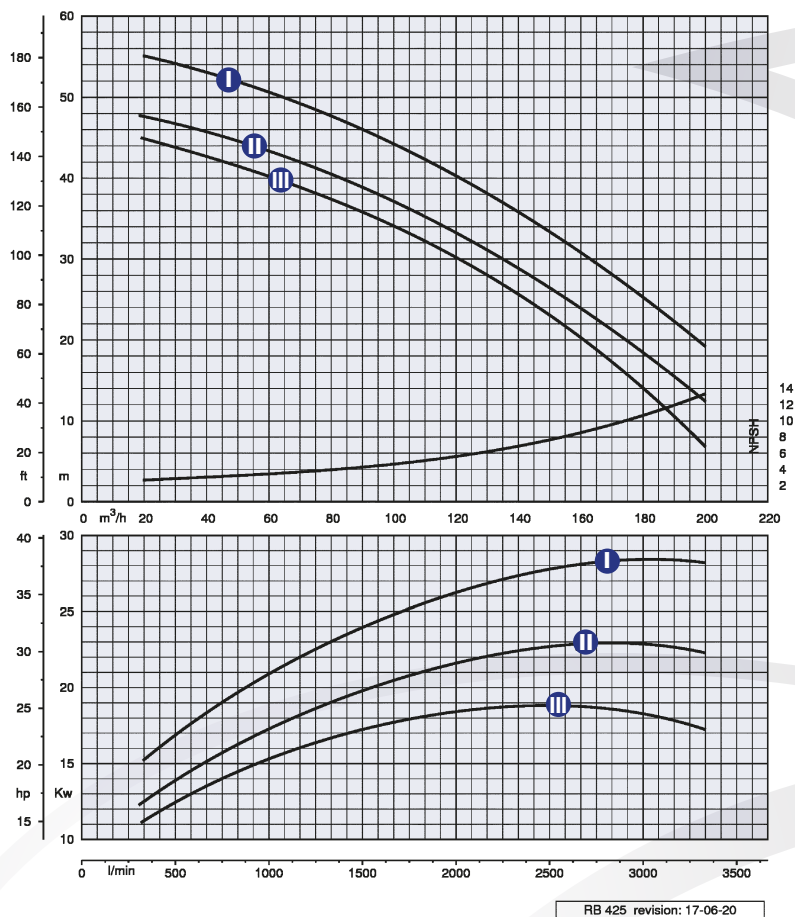
Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

SELF PRIMING ENGINE DRIVEN PUMPS

RB425

ROBUSTA
Hydraulic System

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PUMP PERFORMANCE RANGE

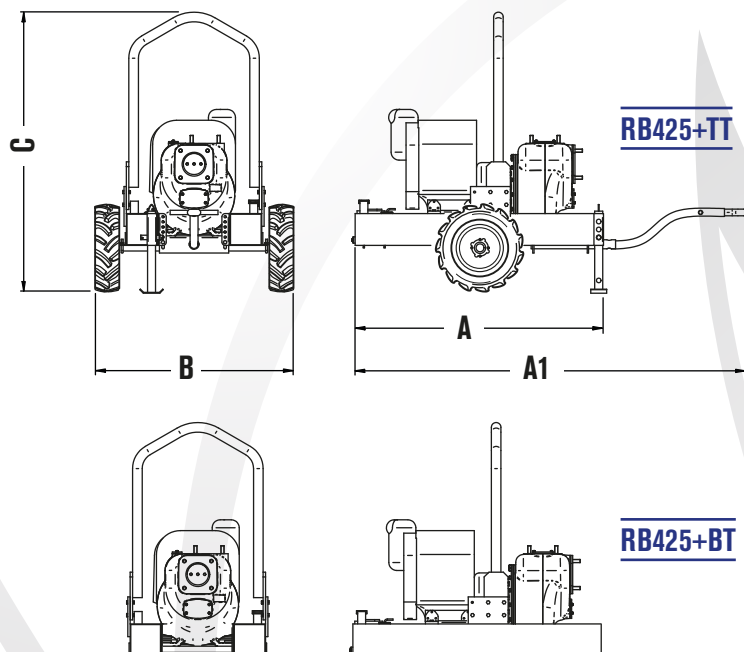
- I RB425AGS/Y488+TT
- II RB425AGS/Y388+TT
- III RB425BGS/LDW14+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	160	280	140	150

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB425 L*

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB425BGLD62+TT	RB425AGY388+TT	RB425AGY488+TT
PUMP			
RPM	1800	2000	2200
P MAX pump (kW)	12.5	21	28
Q MAX (m³/h)	200	200	200
H MAX (m)	25	40	48
Ø Inlet/outlet DN (mm - ")	100 (4")	100 (4")	100 (4")
Ø Impeller (mm)	225	250	250
Free solids passage MAX size (mm)	73 x 30	73 x 30	73 x 30

* Low speed version

ENGINE DRIVEN

Brand	Lombardini 9LD625-2	Yanmar 3TNV88	Yanmar 4TNV88
N. cylinders	2	3	4
Displacement (cc)	1248	1642	2190
Motor power - MAX (kW)	21	28.2	35
Cooling	Air	Water	Water
Fuel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	120	120	120
Total weight version +TT (kg) **	400	480	500
Base frame with tank (+BT)	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓
heavy type manually-driven			

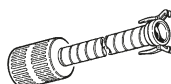
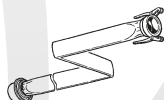
** Empty tank

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

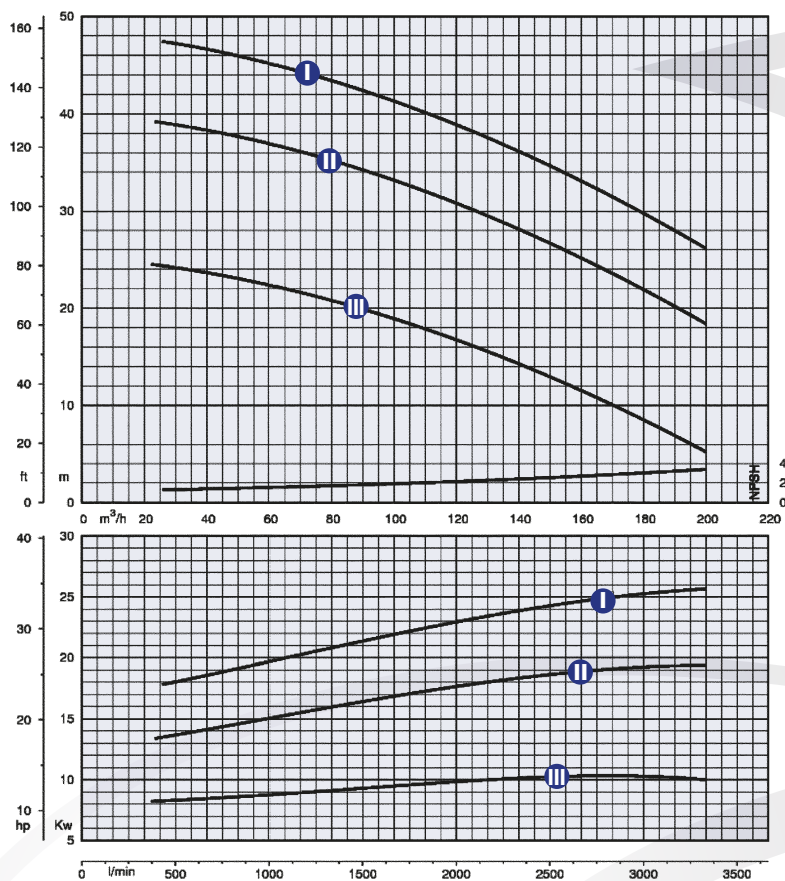
Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

SELF PRIMING ENGINE DRIVEN PUMPS

RB425 L

ROBUSTA
Hydraulic System

VIESSE
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RB 425L revision: 11-04-07

PUMP PERFORMANCE RANGE

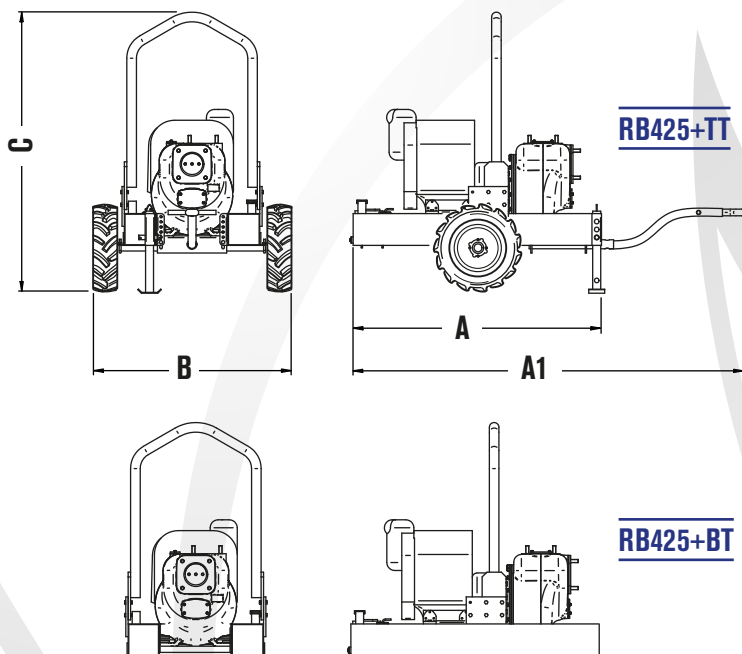
- I RB425AGY488+TT
- II RB425AGY388+TT
- III RB425BGLD62+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	160	280	140	150

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB431

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB431BGY488+TT	RB431AGY498+TT	RB431AGY49N+TT
PUMP			
RPM	1800	1800	2000
P MAX pump (kW)	25	43	46
Q MAX (m³/h)	220	230	230
H MAX (m)	47	56	60
Ø Inlet/outlet DN (mm - ")	100 (4")	100 (4")	100 (4")
Ø Impeller (mm)	284	315	315
Free solids passage MAX size (mm)	50 x 50	50 x 50	50 x 50

ENGINE DRIVEN

Brand	Yanmar 4TNV88	Yanmar 4TNV98T	Yanmar 4TNV98NS*
N. cylinders	4	4	4
Displacement (cc)	2190	3319	3319
Motor power - MAX (kW)	35	49.7	52
Cooling	Water	Water	Water
Fuel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	120	120	120
Total weight version +TT (kg) **	580	630	580
Base frame with tank (+BT)	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓
heavy type manually-driven			

* Stage 2 Motor, not allowed for UE markets

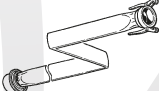
** Empty tank

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

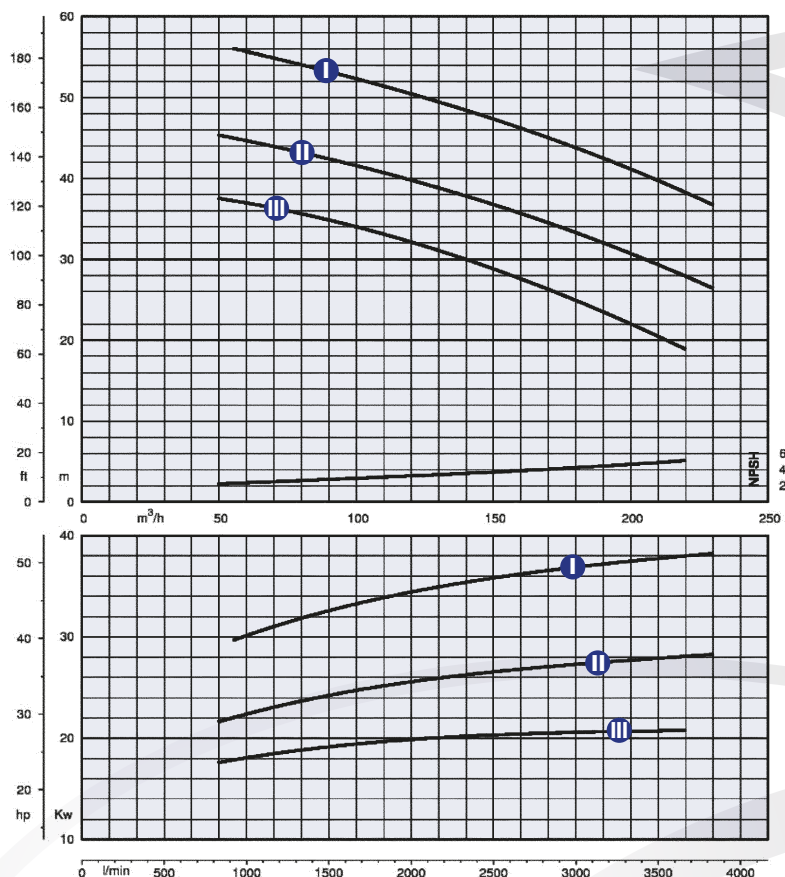
Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

SELF PRIMING ENGINE DRIVEN PUMPS

RB431

ROBUSTA
Hydraulic System

VIESSE
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RB 431 revision: 11-04-07

PUMP PERFORMANCE RANGE

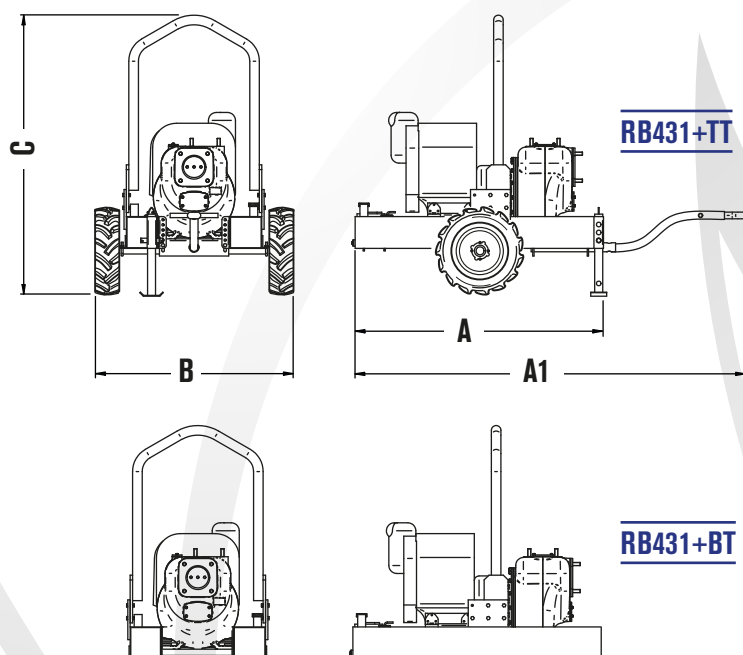
- I RB431AGY49N+TT
- II RB431AGY498+TT
- III RB431BGY488+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	160	280	140	150

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB625

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB625BGLD62+TT	RB625BGYN388+TT	RB625AGYN488+TT	RB625AGYN49N+TT
PUMP				
RPM	1500	1800	1800	2000
P MAX pump (kW)	9.5	21	25	37
Q MAX (m³/h)	330	370	400	400
H MAX (m)	17	25	27	33
Ø Inlet/outlet DN (mm - ")	150 (6")	150 (6")	150 (6")	150 (6")
Ø Impeller (mm)	230	230	250	250
Free solids passage MAX size (mm) 73 x 50		73 x 50	73 x 50	73 x 50

ENGINE DRIVEN

Brand	Lombardini 9LD626-2	Yanmar 3TNV88	Yanmar 4TNV88	Yanmar 4TNV98NS*
N. cylinders	2	3	4	4
Displacement (cc)	1248	1642	2190	3319
Motor power - MAX (kW)	21	28.2	35	52
Cooling	Air	Water	Water	Water
Fuel	Diesel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	120	120	120	120
Total weight version +TT (kg) **	500	560	580	680
Base frame with tank (+BT)	✓	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓	✓
heavy type manually-driven				

* Stage 2 Motor, not allowed for UE markets

** Empty tank

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

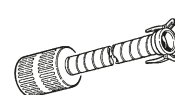
Flanged
rapid coupling



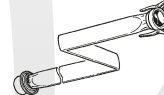
90° bend



Suction hose with
coupling and strainer



Delivery flexible hose
with couplings

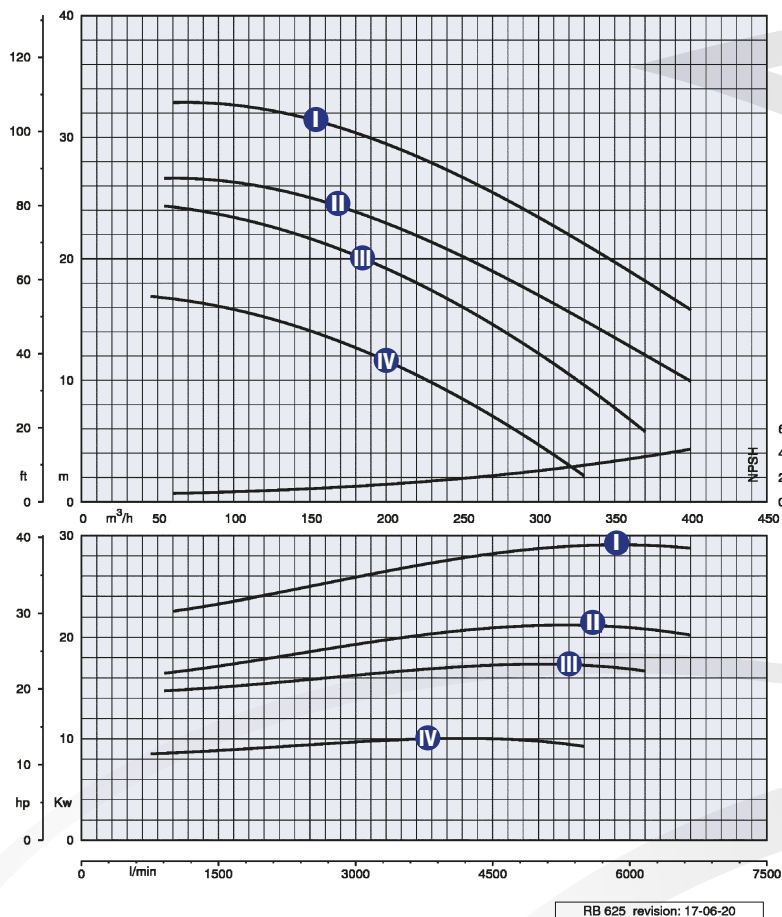


SELF PRIMING ENGINE DRIVEN PUMPS

RB625

ROBUSTA
Hydraulic System

VIESSE 
POMPE • ITALIA



PUMP PERFORMANCE RANGE

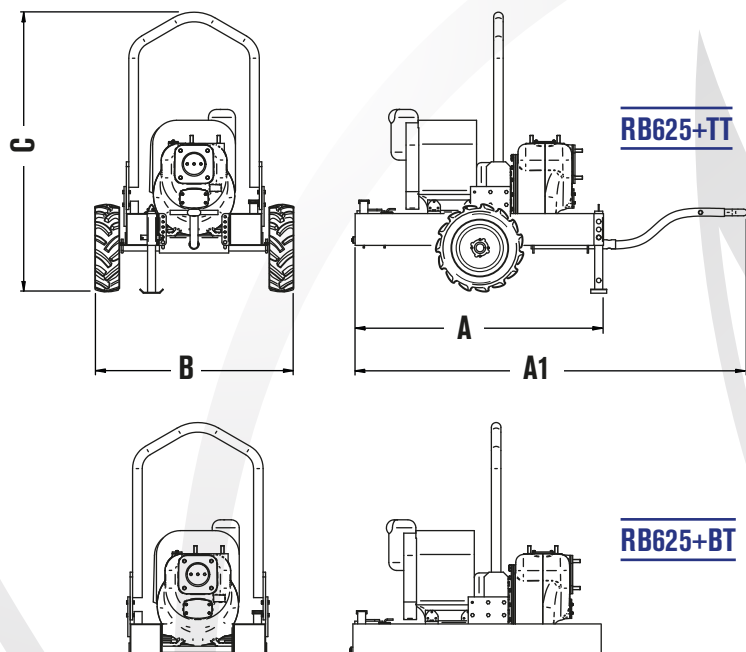
- I RB625AGYN49N+TT
- II RB625AGYN488+TT
- III RB625BGIN388+TT
- IV RB625BGLD62+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	160	280	140	150

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB831

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB831BGY49N+TT	RB831BGY498+TT	RB831AGN4S0+TT	RB831AGN6M2+TT
PUMP				
RPM	1700	1800	1900	2000
P MAX pump (kW)	41	43	65	100
Q MAX (m³/h)	600	650	750	750
H MAX (m)	30	34	43	47
Ø Inlet/outlet DN (mm - ")	200 (8")	200 (8")	200 (8")	200 (8")
Ø Impeller (mm)	270	270	300	300
Free solids passage MAX size (mm)	78 x 75	78 x 75	78 x 75	78 x 75

ENGINE DRIVEN

	Yanmar 4TNV98NS*	Yanmar 4TNV98T	FPT N45MSSX00.50	FPT N67MNTX20.00
Brand	Yanmar 4TNV98NS*	Yanmar 4TNV98T	FPT N45MSSX00.50	FPT N67MNTX20.00
N. cylinders	4	4	4	6
Displacement (cc)	3319	3319	4500	6700
Motor power - MAX (kW)	52	49.7	74	129
Cooling	Water	Water	Water	Water
Fuel	Diesel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	650	650	650	650
Total weight version +TT (kg) **	920	920	970	1100
Base frame with tank (+BT)	✓	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓	✓
heavy type manually-driven				

* Stage 2 Motor, not allowed for UE markets

** Empty tank

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armoured volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged
rapid coupling



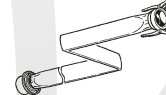
90° bend



Suction hose with
coupling and strainer



Delivery flexible hose
with couplings

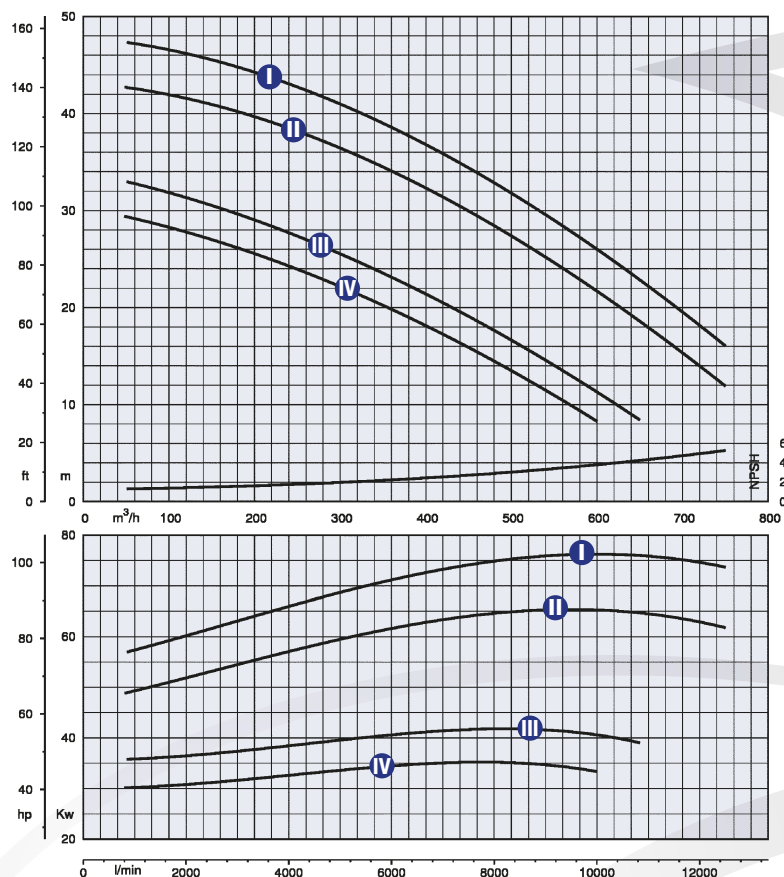


SELF PRIMING ENGINE DRIVEN PUMPS

RB831

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



RB 831 revision: 17-06-20

PUMP PERFORMANCE RANGE

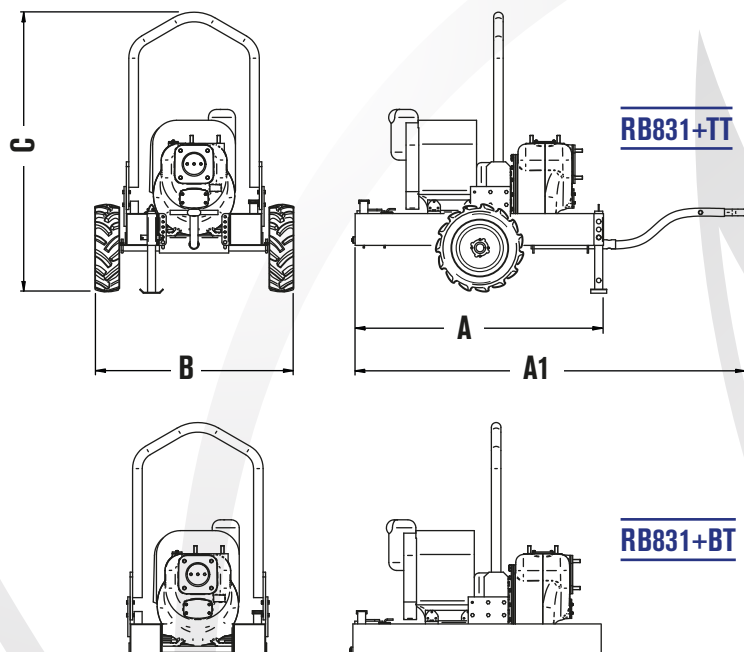
- I RB831AGN6M2+TT
- II RB831AGN4S0+TT
- III RB831BGY498+TT
- IV RB831BGY49N+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	220	340	160	160

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



SELF PRIMING ENGINE DRIVEN PUMPS

RB1031



The self priming pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors.

The open-blade double-curvature impeller, unique across the world, ensures a superior priming ability voiding the need of a foot valve installation. The high thickness of the pump body and of the impeller blades, allow the handling of more abrasive fluids and large passage of solids.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RB1031AGY498+TT	RB1031BGY49N+TT	RB1031BGN4S0+TT	RB1031AGN4T2+TT
PUMP				
RPM	1500	1600	1900	1900
P MAX pump (kW)	43	39	65	79
Q MAX (m³/h)	750	750	900	900
H MAX (m)	30	30	42	45
Ø Inlet/outlet DN (mm - ")	250 (10")	250 (10")	250 (10")	250 (10")
Ø Impeller (mm)	300	280	280	300
Free solids passage MAX size (mm) 85 x 85		85 x 85	85 x 85	85 x 85

ENGINE DRIVEN

Brand	Yanmar 4TNV98T	Yanmar 4TNV98NS*	FPT N45MSSX00.50	FPT N45MSTX20.50
N. cylinders	4	4	4	4
Displacement (cc)	3319	3319	4500	4500
Motor power - MAX (kW)	52	49.7	74	93
Cooling	Water	Water	Water	Water
Fuel	Diesel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc
Capacità serbatoio (L)	650	650	650	650
Total weight version +TT (kg) **	950	950	1030	1050
Base frame with tank (+BT)	✓	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓	✓
heavy type manually-driven				

* Stage 2 Motor, not allowed for UE markets

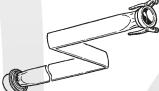
** Empty tank

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

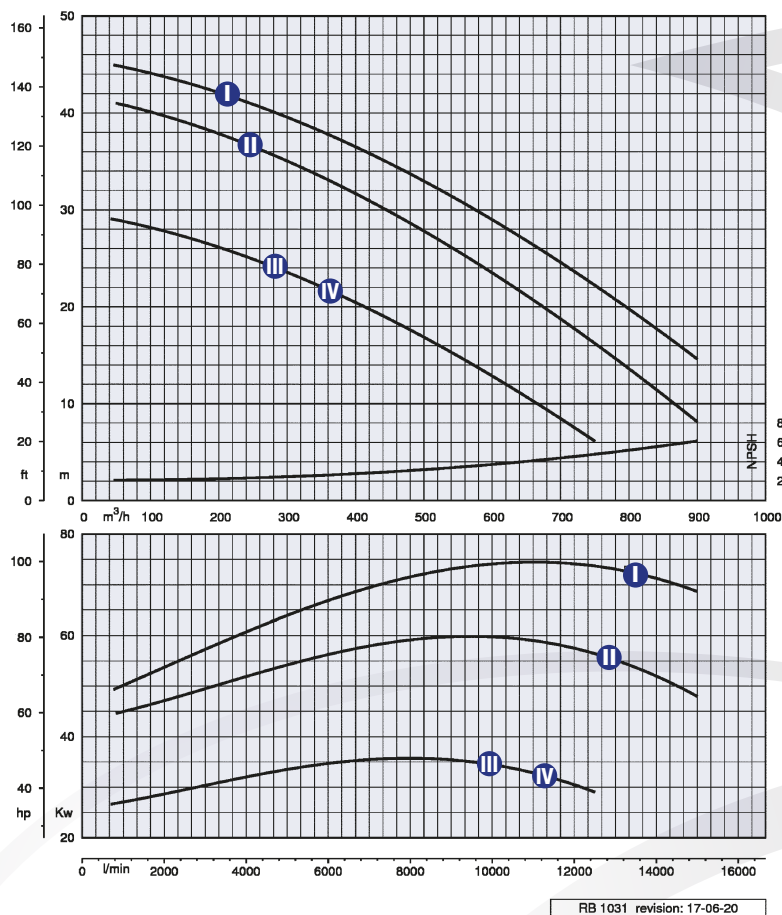
Special metallurgies available on demand.

OPTIONAL ACCESSORIES

Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

SELF PRIMING ENGINE DRIVEN PUMPS

RB1031



PUMP PERFORMANCE RANGE

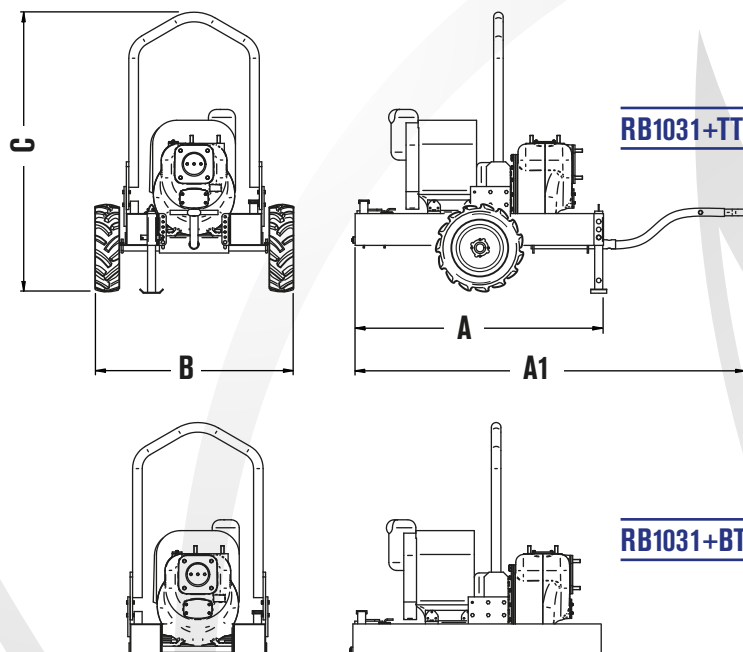
- I RB1031AGN4T2+TT
- II RB1031BGN4S0+TT
- III RB1031BGY49N+TT
- IV RB1031AGY498+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	220	340	160	160

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW425

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The vacuum-assisted pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. Unique in the whole world, the opened blades, double curved impeller, grants an high hydraulic efficiency. The high thickness of the casing and of the impeller blades, allow the pumping of more abrasive fluids and larger passage of solids. The great priming capacity of the vacuum device, is making, this unit, particularly suitable for wellpoint systems, having a fast and continuous priming.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.
- ✓ Permanent grease lubricated ball bearings.

VERSIONS

Code	RW425BGS4/LD62+TT	RW425AGS4/Y388+TT	RW425AGS4/Y488+TT
PUMP			
RPM	1800	2000	2200
P MAX pump (kW)	12.5	21	28
Q MAX (m³/h)	200	200	200
H MAX (m)	25	30	37
Ø Inlet/outlet DN (mm - ")	100 (4")	100 (4")	100 (4")
Ø Impeller (mm)	225	250	250
Free solids passage MAX size (mm)	73 x 30	73 x 30	73 x 30
Vacuum device capacity (Nm³/h)	75	75	75

ENGINE DRIVEN

Brand	Lombardini 9LD625-2	Yanmar 3TNV88	Yanmar 4TNV88
N. cylinders	2	3	4
Displacement (cc)	1248	1642	2190
Motor power - MAX (kW)	21	28.2	35
Cooling	Air	Water	Water
Fuel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric

PUMP SET UP AVAILABLE

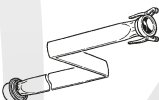
Coupling versions	Flexible joint	Flexible joint	Flexible joint
Tank capacity (L)	650	650	650
Total weight version +TT (kg) **	500	580	620
Base frame with tank (+BT)	✓	✓	✓
Tank trailer (+TT) heavy type manually-driven	✓	✓	✓

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

OPTIONAL ACCESSORIES

Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

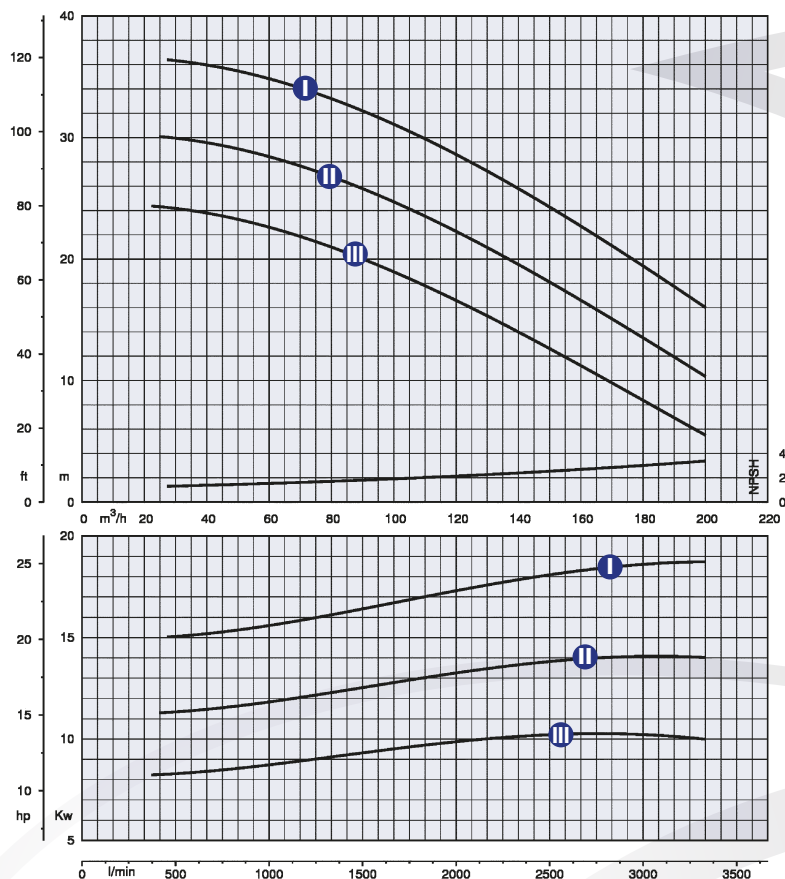
Special metallurgies available on demand.

VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW425

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



RB 425 revision: 17-06-20

PUMP PERFORMANCE RANGE

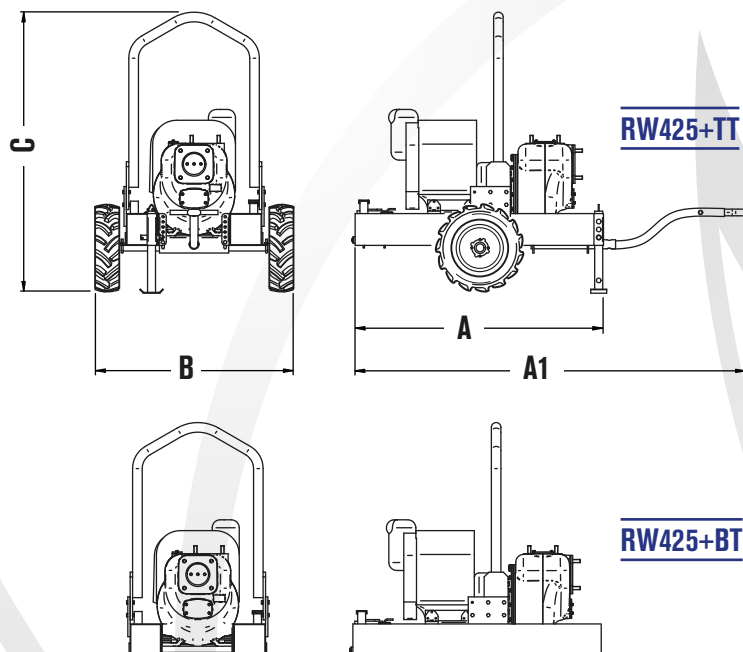
- I RW425AGS4/Y488+TT
- II RW425AGS4/Y388+TT
- III RW425BGS4/LD62+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	220	340	160	160

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW625

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



The vacuum-assisted pumps "Robusta", are designed to comply to the hardest and heavy duty applications, such as: building, emergency and industrial sectors. Unique in the whole world, the opened blades, double curved impeller, grants an high hydraulic efficiency. The high thickness of the casing and of the impeller blades, allow the pumping of more abrasive fluids and larger passage of solids. The great priming capacity of the vacuum device, is making, this unit, particularly suitable for wellpoint systems, having a fast and continuous priming.

FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.
- ✓ Permanent grease lubricated ball bearings.

VERSIONS

Code	RW625BGS4/LD62+TT	RW625BGS4/YN388+TT	RW625AGS4/YN488+TT	RW625AGS4/YN498N+TT
PUMP				
RPM	1500	1800	1800	2000
P MAX pump (kW)	9.5	21	25	17
Q MAX (m³/h)	330	370	400	380
H MAX (m)	17	25	27	33
Ø Inlet/outlet DN (mm - ")	150 (6")	150 (6")	150 (6")	150 (6")
Ø Impeller (mm)	230	230	250	250
Free solids passage MAX size (mm)	73 x 50	73 x 50	73 x 50	73 x 50
Vacuum device capacity (Nm³/h)	75	75	75	75

ENGINE DRIVEN

Brand	Lombardini 9LD626-2	Yanmar 3TNV88	Yanmar 4TNV88	Yanmar 4TNV98NS*
N. cylinders	2	3	4	4
Displacement (cc)	1248	1642	2190	3319
Motor power - MAX (kW)	21	28.2	35	52
Cooling	Air	Water	Water	Water
Fuel	Diesel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Flexible joint	Flexible joint	Flexible joint	Flexible joint
Tank capacity (L)	650	650	650	650
Total weight version +TT (kg) **	700	760	780	780
Base frame with tank (+BT)	✓	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓	✓
heavy type manually-driven				

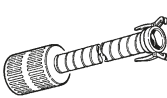
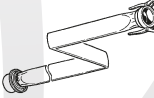
* Stage 2 Motor, not allowed for UE markets

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

OPTIONAL ACCESSORIES

Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

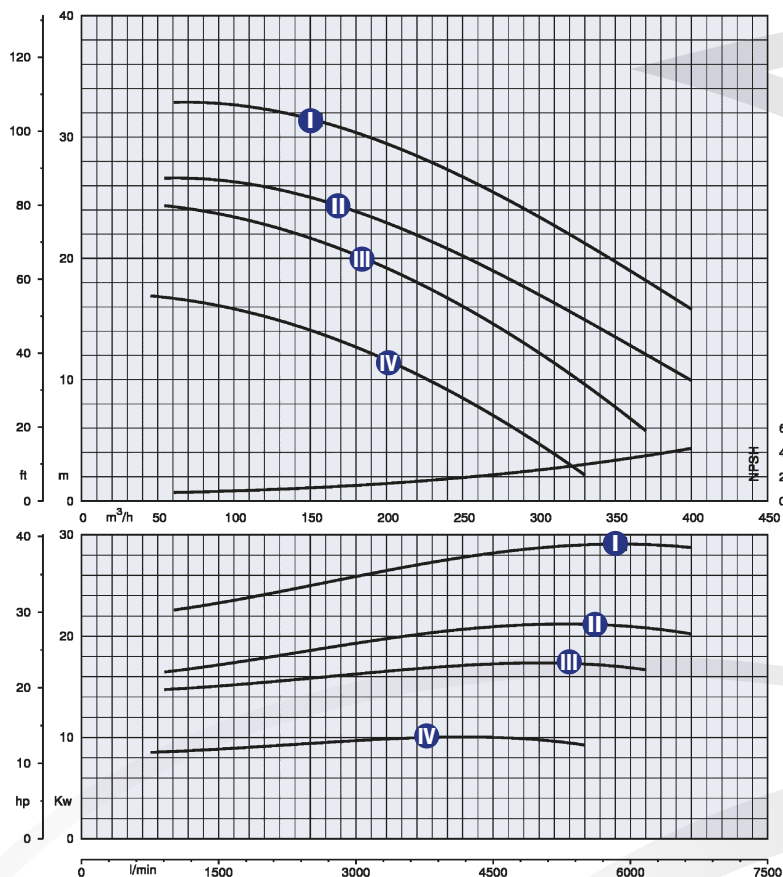
Special metallurgies available on demand.

VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW625

ROBUSTA
Hydraulic System

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RB 625 revision: 17-06-20

PUMP PERFORMANCE RANGE

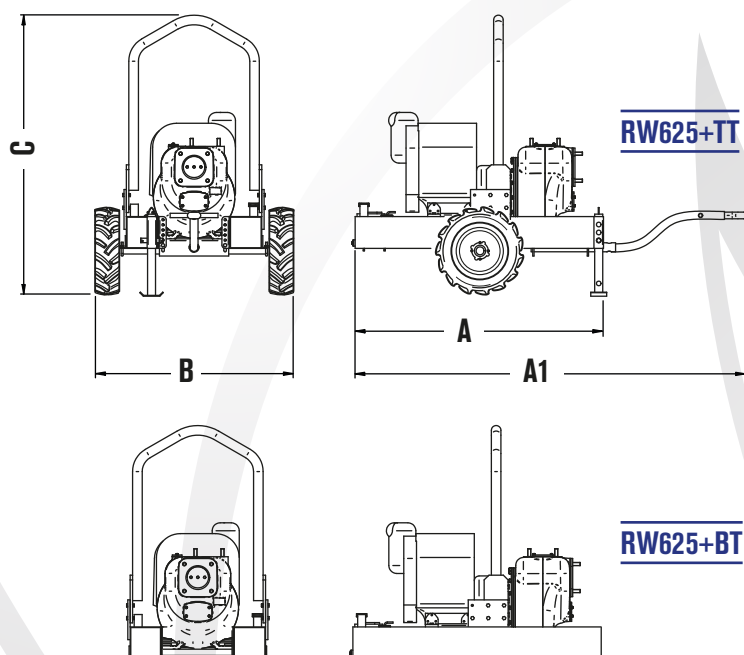
- I** RW625AGS4/YN498N+TT
- II** RW625AGS4/YN488+TT
- III** RW625BGS4/YN388+TT
- IV** RW625BGS4/LD62+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	220	340	160	160

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW831

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



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FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.

VERSIONS

Code	RW831BGY49N+TT	RW831BGY498+TT	RW831AGN4S0+TT
PUMP			
RPM	1700	1800	1900
P MAX pump (kW)	41	43	65
Q MAX (m³/h)	600	650	750
H MAX (m)	30	34	43
Ø Inlet/outlet DN (mm - ")	200 (8")	200 (8")	200 (8")
Ø Impeller (mm)	270	270	300
Free solids passage MAX size (mm)	78 x 75	78 x 75	78 x 75
Vacuum device capacity (Nm³/h)	75	75	75

ENGINE DRIVEN

Brand	Yanmar 4TNV98NS*	Yanmar 4TNV98T	FPT N45MSSX00.50
N. cylinders	4	4	4
Displacement (cc)	3319	3319	4500
Motor power - MAX (kW)	49.7	52	74
Cooling	Water	Water	Water
Fuel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Direct / Monobloc	Direct / Monobloc	Direct / Monobloc
Tank capacity (L)	650	650	650
Total weight version +TT (kg) **	1100	1100	1150
Base frame with tank (+BT)	✓	✓	✓
Tank trailer (+TT) heavy type manually-driven	✓	✓	✓

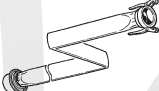
* Stage 2 Motor, not allowed for UE markets

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

OPTIONAL ACCESSORIES

Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

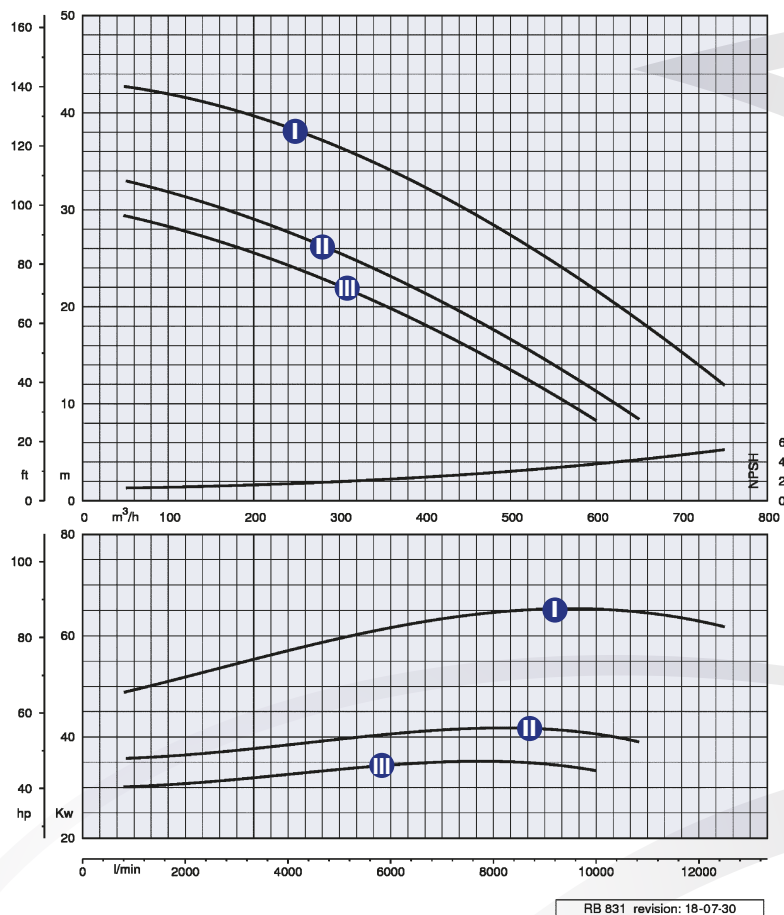
Special metallurgies available on demand.

VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW831

ROBUSTA
Hydraulic System

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PUMP PERFORMANCE RANGE

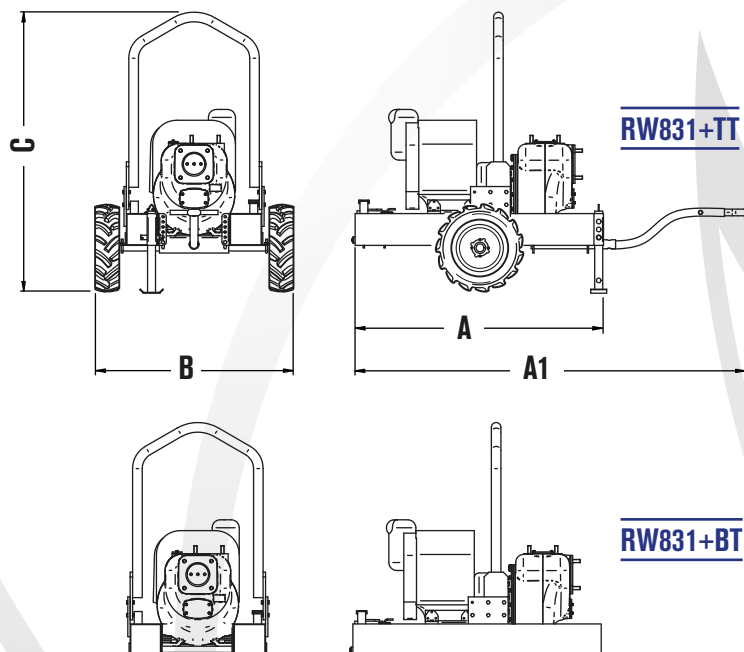
- I RW831AGN4S0+TT
- II RW831BGY498+TT
- III RW831BGY49N+TT

Performances are subjected to variations based on NPSH available.

DIMENSIONS mm

	A	A1	B	C
Version +TT	220	340	160	160

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VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW1031

ROBUSTA
Hydraulic System

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FEATURES

- ✓ EN-JL1030 cast iron construction according to UNI EN 1561 with modular body.
- ✓ Replaceable screw-less armoured internal volute in EN-JS1030 nodular cast iron according to UNI EN 1563.
- ✓ Mechanical seal in high resistance hard metal.
- ✓ Large-size inspection hatches to facilitate cleaning and inspection.
- ✓ Standardised EN1092-1:2003 flanged inlet and outlet with built in threaded rod.
- ✓ Rapid self-priming up to 8 meters in vertical position.
- ✓ Oil bath lubricated ball bearings.

VERSIONS

Code **RW1031AGS4/Y498+TT** **RW1031BGS4/Y49N+TT** **RW1031BGS4/N4S0+TT** **RW1031AGS4/N4T2+TT**

PUMP

RPM	1500	1600	1900	1900
P MAX pump (kW)	43	39	65	79
Q MAX (m³/h)	750	750	900	900
H MAX (m)	30	30	42	45
Ø Inlet/outlet DN (mm - ")	250 (10")	250 (10")	250 (10")	250 (10")
Ø Impeller (mm)	300	280	280	300
Free solids passage MAX size (mm)	85 x 85	85 x 85	85 x 85	85 x 85
Vacuum device capacity (Nm³/h)	75	75	75	75

ENGINE DRIVEN

Brand	Yanmar 4TNV98T	Yanmar 4TNV98NS*	FPT N45MSSX00.50	FPT N45MSTX20.50
N. cylinders	4	4	4	4
Displacement (cc)	3319	3319	4500	4500
Motor power - MAX (kW)	52	49.7	74	93
Cooling	Water	Water	Water	Water
Fuel	Diesel	Diesel	Diesel	Diesel
Starting system	Electric	Electric	Electric	Electric

PUMP SET UP AVAILABLE

Coupling versions	Flexible joint	Flexible joint	Flexible joint	Flexible joint
Tank capacity (L)	650	650	650	650
Total weight version +TT (kg) **	1200	1200	1350	1380
Base frame with tank (+BT)	✓	✓	✓	✓
Tank trailer (+TT)	✓	✓	✓	✓
heavy type manually-driven				

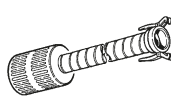
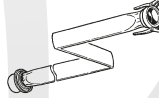
* Stage 2 Motor, not allowed for UE markets

** Empty tank.

STANDARD MATERIAL OF CONSTRUCTION

Pump body	Cast Iron GJL250
Armored volute	Nodular cast iron GJS400
Open-blade impeller	Nodular cast iron GJS400
Mechanical Seal	Silicon Carbide / Viton®
Shaft	Steel C40
Elastomers	Nitrile

OPTIONAL ACCESSORIES

Flanged rapid coupling	90° bend	Suction hose with coupling and strainer	Delivery flexible hose with couplings
			

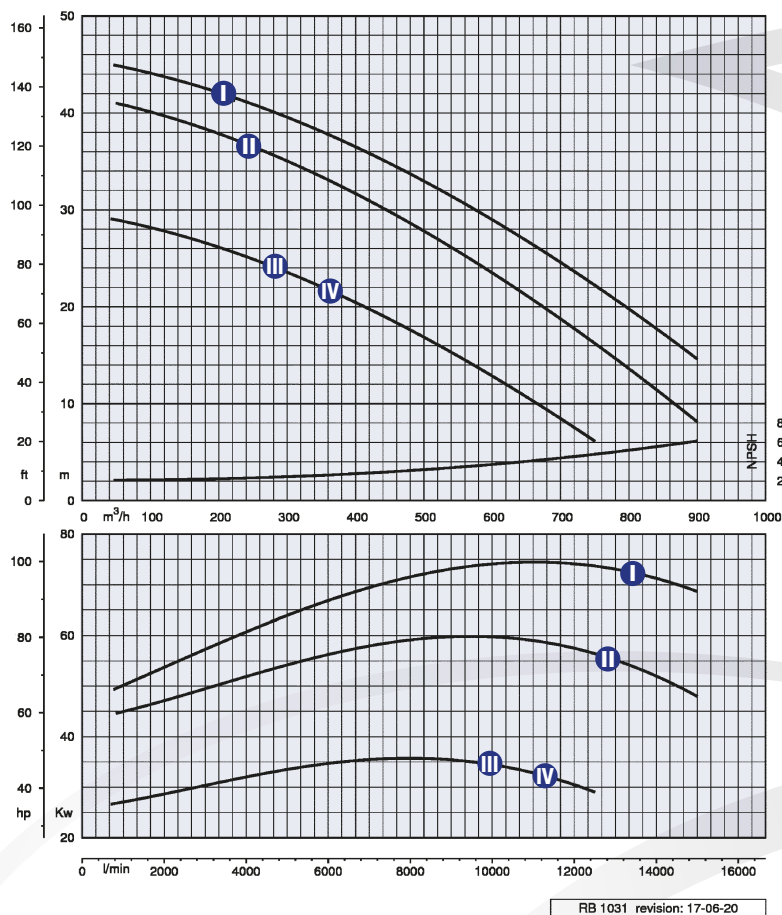
Special metallurgies available on demand.

VACUUM-ASSISTED SELF PRIMING ENGINE DRIVEN PUMPS

RW1031

ROBUSTA
Hydraulic System

VIESSE
POMPE • ITALIA



PUMP PERFORMANCE RANGE

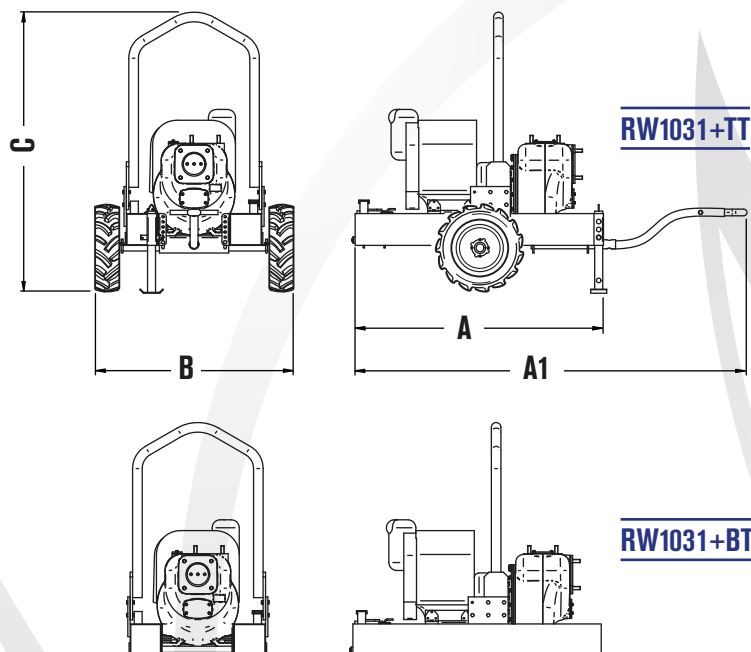
- I RW1031AGS4/N4T2+TT
- II RW1031BGS4/N4S0+TT
- III RW1031BGS4/Y49N+TT
- IV RW1031AGS4/Y498 +TT

Performances are subjected to variations based on NPSH available.

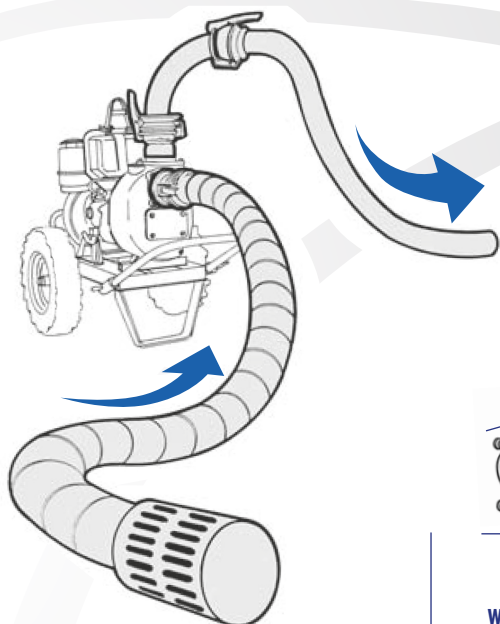
DIMENSIONS mm

	A	A1	B	C
Version +TT	220	340	160	180

All dimensions and data a.m. reported are indicative, not binding and subjected to modifications without notice.



STANDARD ACCESSORIES

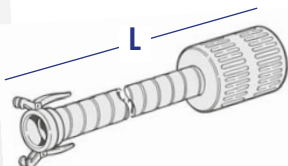


Suction PVC hose with F coupling and strainer. L = 6 m

CODE	Ø mm
TUAA50X6S+F	50
TUAA80X6S+F	80
TUAA100X6S+F	100
TUAA150X6S+F	150

Suction dredging rubberized hose with F coupling and strainer. L = 2 m

CODE	Ø mm
TUAA150X2S+F	150
TUAA200X2S+F	200
TUAA250X2S+F	250
TUAA300X2S+F	300

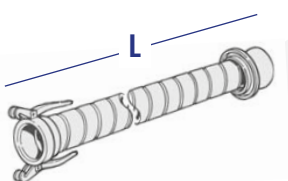


Suction PVC hose with M/F couplings. L = 6 m

CODE	Ø mm
TUAA40X6SMF	40
TUAA50X6SMF	50
TUAA80X6SMF	80
TUAA100X6SMF	100
TUAA150X6SMF	150

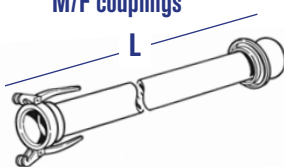
Suction dredging rubberized hose with M/F couplings. L = 2 m

CODE	Ø mm
TUAA150X2SMF	150
TUAA200X2SMF	200
TUAA250X2SMF	250
TUAA300X2SMF	300

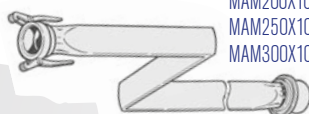


Galvanized steel pipe with M/F couplings

Available from 80 to 300 mm diameter, L from 2 to 6 m.



Flat hose with M/F couplings 10 metres lenght



CODE	Ø mm
TMAM50X10SMF	50
MAM80X10SMF	80
MAM100X10SMF	100
MAM150X10SMF	150
MAM200X10SMF	200
MAM250X10SMF	250
MAM300X10SMF	300

Male union coupling for pipe or flat hose



CODE	Ø mm
BOM48SFX42	40 (48)
BOM50SFX50L	50 (48)
BOM80SFX80L	80
BOM100SFX100	100
BOM150SFX150L	150
BOM200SFX200	200
BOM250SFX250	250
BOM300SFX300	300
BOF300SFX300	300

Female union coupling for pipe or flat hose



CODE	Ø mm
BOF48SFX42	40 (48)
BOF50SFX50SL	50 (48)
BOF80SFX80L	80
BOF100SFX100L	100
BOF150SFX150L	150
BOF200SFX200L	200
BOF250SFX250	250
BOF300SFX300	300

M flanged coupling



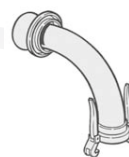
CODE	Ø mm
RSM50X48-16	50 (48)
RSM80X80-16	80
RSM100X100-16	100
RSM150X150-16	150
RSM200X200-16	200
RSM250X250-10	250
RSM300X300-10	300

Gasket for female union coupling



CODE	Ø mm
GGSS50	40-50 (48)
GGSS80	80
GGSS100	100
GGSS150	150
GGSS200	200
GGSS250	250
GGSS300	300

90° elbow with couplings



CODE	Ø mm
CUMF90X48	40-50 (48)
CUMF90X80	80
CUMF90X100	100
CUMF90X150	150
CUMF90X200	200
CUMF90X250	250
CUMF90X300	300

45° elbow with couplings



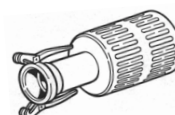
CODE	Ø mm
CUMF45X48	40-50 (48)
CUMF45X80	80
CUMF45X100	100
CUMF45X150	150
CUMF45X200	200
CUMF45X250	250
CUMF45X300	300

Foot strainer



CODE	Ø mm
F50L	50
F80L	80
F100L	100
F150L	150
F200L	200
F250L	250
F300L	300

Foot strainer with F coupling



CODE	Ø mm
F50F	40-50 (48)
F80F	80
F100F	100
F150F	150
F200F	200
F250F	250
F300F	300



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