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VA 200-150-350 5504GDBQ82LECCO OA

Vitacast - Hygienic centrifugal pump

Operating data

Actual flow rate 299.81 m³/h Requested flow rate Requested developed head Actual developed head 29.96 m Pumped medium + Брага Efficiency 65.5 % 42.94 kW Power absorbed Pumped medium details Not containing chemical and Pump speed of rotation 1484 rpm mechanical substances which NPSH required 2.64 m affect the materials Permissible operating 10.00 bar.g Max. ambient air temperature 20.0 °C pressure Min. ambient air temperature 20.0 °C Discharge press. 3.38 bar.g Fluid temperature 32.0 °C 1150 kg/m³ Shutoff head 31.76 m Fluid density Fluid viscosity 30.00 mm²/s Min. allow. flow for continuous 42.42 m³/h Suction pressure max. 0.00 bar.g stable operation Mass flow rate 95.77 kg/s Min. allow. mass flow for 13.55 kg/s Max. power on curve continuous stable operation 49.30 kW Max. allow. mass flow 165.22 kg/s Viscosity factor CQ 0.99746512 Design Single system 1 x 100 % Viscosity factor CE 0.95016218 Viscosity factor CH 0.99804554

Design



according to standard

The pump conforms to the regulations of EGV 1935/2004. Design Baseplate mounted, long-

	coupieu
Orientation	Horizontal
Suction nominal dia.	DN 200
Suction nominal pressure	PN 10
Suction position	axial
Connection standard	EN1092-1
Discharge nominal dia.	DN 150
Discharge norminal pressure	PN 10
Discharge position	top (0°/360°)
Discharge flange drilled	EN1092-1

Counter Flange Nο Shaft seal Double-acting mechanical seal

Roten Shaft seal manufacturer Shaft seal type Uniten 5 Mechanical Seal Form Unbalanced Direction of rotation Clockwise Spring Shrouding open

Material code Manufacturer atm. side Type atm. side Material code atm. side Shaft seal code Sealing plan

Seal chamber design Impeller diameter Free passage size Direction of rotation from drive Clockwise Silicon free pump assembly Bearing bracket construction Bearing bracket size Bearing type Lubrication type Lubrication monitoring Support or motor foot Motor shroud Surface finish wetted parts

Roten 7K **BGEGG** Q82 DB double acting mechanical seal (back to back) Standard seal chamber 328.0 mm 24 mm Yes Close-coupled Anti-friction bearings Constant level oiler

BQ1EGG

None

Without

3.2 µm



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Driver, accessories (nicht im Lieferumfang enthalten!/not included!)

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Coupling Manufacturer	Samiflex	Rated voltage	400 V
Coupling type	SCA	Rated power P2	55.00 kW
Nominal size	A4	Available reserve	28.07 %
Coupling guard trac	Lightweight not treadproof	Rated current	103.6 A
Coupling guard type	Lightweight, not treadproof	Starting current ratio	7.9
Guard size	(ZN79) 4	Insulation class	F to IEC 34-1
Guard size Guard material	Stainless steel 1.4301	Motor enclosure	IP55
Guaru matemai	Stairness steer 1.4301	Cos phi at 4/4 load	0.86
Baseplate type	Welded steel	Motor efficiency at 4/4 load	94.6 %
Baseplate size	17-SS	Temperature sensor	3 PTC resistors
Baseplate Material	Stainless steel 1.4301	Terminal box position	0°/360° (top)
Baseplate drain piping			Viewed from the drive
material		Motor winding	400 / 690 V
Deiverstan	Electric vector	Number of poles	4
Driver type	Electric motor	Connection mode	Delta
Drive standard mech.	IEC	Motor cooling method	Surface cooling
Model (make)	KSB-Motor	Motor material	Grey cast iron GG/CAST IRON
Drive supplied by	Standard motor supplied by	Frequency inverter operation	VFD-suitability only in
Motor const. type	KSB - mounted by KSB B3	allowed	connection with KSB
Motor size	250M		PumpDrive
····	Efficiency class IE3 acc. to	Motor noise pressure level	69 dBa
Efficiency class	IEC60034-30-1	Motor data can vary from type p	
Motor speed	1484 rpm	describes KSB's choice functional specification and is used	
Frequency	50 Hz	for pump selection.	
Frequency	30 112	EAC Approval	Yes
Materials C			
Circular casing (103)	Stainless steel 1.4409	Taper locking ring (515)	Stainless steel 1.4301
Discharge cover (163)	Stainless steel 1.4409	Cover plate (68-3)	Stainless steel 1.4301
Shaft (210)	CrNiMo steel 1.4404	Motor shroud (683)	Without
Impeller (230)	Stainless steel 1.4409	Impeller nut (922)	CrNiMo steel 1.4404
O-Ring (412)	EPDM 70 FDA		-
Paul auto			
Packaging			

Packaging for transport	Truck	IPPC Standard ISPM 15	Yes
Packaging for storage	Indoor	Packaging category	A7 Wooden crate

Nameplates

Nameplates language International

Auxiliary connections

6B Pumped liquid drain	G 3/8, Not executed	638 Constant level oiler	G 1/4, Mounted at the factory
6B Position	None	13D Refill / venting	G 1/4, Closed with venting
10E/10A Sealing liquid in/out	G 1/4, Extension pipe closed		plug
24E/24A Quench liquid in/out	G 1/4, Not executed	13B Oil drain	G 1/4, Drilled and plugged.



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Order documentation

The following documents will be supplied with the order: Manufacturer's or conformity declaration General arrangement drawing Auxiliary connection plan Technical data sheet

Separate operating manual driver

Dimension sheet driver Performance curve Operating manual

Languages Procedure for unsupported

languages

Russian, English Supply the document in English instead

Coating

A1 to KSB AN 1897 KSB coating code Free from dirt, grease, rust Surface preparation Primer Hydro primer, water based

Final coating

Polycondensate/acrylatepolymer combination, water

soluble

Color Gentian blue (RAL 5010)

Total film thickness approx.

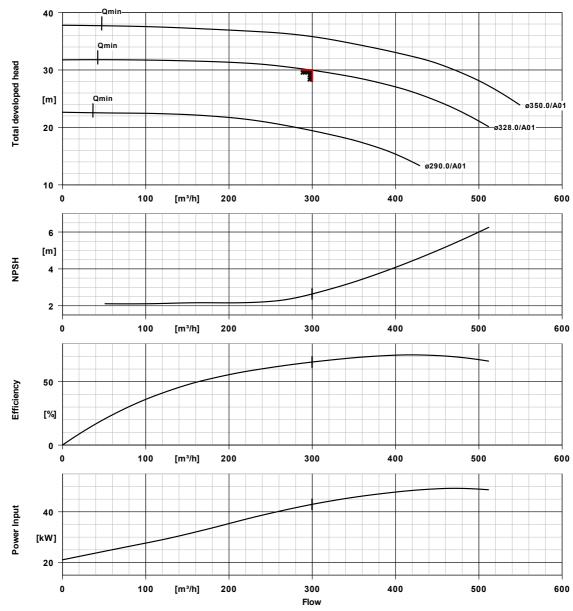
100 µm



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Curve data

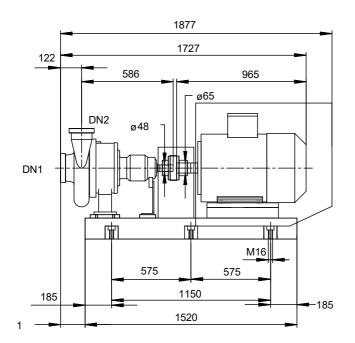
1484 rpm	Requested developed head	30.00 m
1150 kg/m³	Efficiency	65.5 %
30.00 mm ² /s	Power absorbed	42.94 kW
299.81 m³/h	NPSH required	2.64 m
300.00 m³/h	Curve number	VA-150350-1450
29.96 m	Effective impeller diameter	328.0 mm
	1150 kg/m ³ 30.00 mm ² /s 299.81 m ³ /h 300.00 m ³ /h	1150 kg/m³ Efficiency 30.00 mm²/s Power absorbed 299.81 m³/h NPSH required 300.00 m³/h Curve number

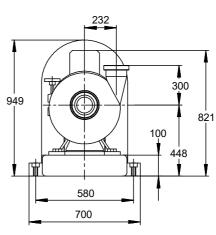


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Drawing is not to scale Dimensions in mm

Motor (nicht im Lieferumfang enthalten!/not included!) Connections

Motor manufacturer KSB-Motor Motor size 250M Motor power 55.00 kW Number of poles

Speed of rotation 1484 rpm Position of terminal box 0°/360° (top)

Viewed from the drive

Baseplate

Welded steel Design 17-SS Size Material Stainless steel 1.4301 Leakage drain baseplate Rp1, Without (8B)

Baseplate drain piping

execution Foundation bolts (required but not scope of

supply)

Without

Suction nominal size DN1 DN 200 / EN1092-1 Discharge nominal size DN2 DN 150 / EN1092-1 Nominal pressure suct. PN 10 Rated pressure disch. PN 10

Coupling

Coupling manufacturer Samiflex SCA Coupling type A4 Coupling size Spacer 0.0 mm

Weight net

177 kg Pump Baseplate 150 kg Coupling 13 kg Coupling guard 1 kg

Total 340 kg

Connect pipes without stress or strain!

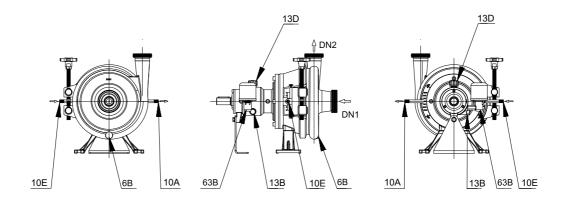
For auxiliary connections see separate drawing.



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Connections

6B Pumped liquid drain	G 3/8	Not executed
10E/10A Sealing liquid in/out	G 1/4	Extension pipe closed
24E/24A Quench liquid in/out	G 1/4	Not executed
638 Constant level oiler	G 1/4	Mounted at the factory
13D Refill / venting	G 1/4	Closed with venting plug
13B Oil drain	G 1/4	Drilled and plugged.