

Data sheet



Customer pos. no.: PU ME 45 A/B/C
Purchase order date: 2009-08-10
Your P/O no.: B09M0170
Quantity: 3,000

Number: 9971598635 - 044
Line: 001500
Date: 2009-08-26
Page: 75 / 82

Etanorm RGC1 300-360

Volute casing pump in back pull-out design

Version no.: 9

Operating data

Requested flow rate	1176.00 m ³ /h	Actual flow rate	1210.33 m ³ /h
Requested developed head	20.00 m	Actual developed head	21.18 m
Pumped medium	Water Clean water Materials are not affected by chemical and mech. substances	Efficiency	81.3 %
Fluid temperature	65.0 °C	Power absorbed	84.28 kW
Fluid density	980 kg/m ³	Pump speed of rotation	1488 rpm
Fluid viscosity	0.45 mm ² /s	NPSH required	7.07 m
Suction pressure max.	0.10 bar.g	Permissible operating pressure	10.00 bar.g
Suction pressure min.	0.10 bar.g	Discharge press.	2.14 bar.g
NPSH available	8.86 m	Max. power on curve	84.56 kW
Mass flow rate	329.64 kg/s	Min. allow. flow rate	348.99 m ³ /h
		Min. allow. mass flow rate	95.05 kg/s
		Shutoff head	31.56 m

Design

Pump standard	EN 733	Sealing plan	P1 Gland packing, internal sealing liquid (Na)
Design	Baseplate mounted, long-coupled	A liquid free of solids is assumed	
Orientation	Horizontal	Seal chamber design	Standard seal chamber
Suction nominal dia.	DN 300	Calculated for inlet pressure	0.10 bar.g
Suction nominal pressure	PN 10	Contact guard	with
Suction position	axial	Wear ring	Casing wear ring
Connection standard suction	EN 1092-2	Impeller diameter	320.0 mm
Discharge nominal dia.	DN 300	Direction of rotation from drive	Clockwise
Discharge nominal pressure	PN 10	Bearing bracket construction	Standard (normal)
Pump discharge position	top (0°/360°)	Bearing bracket size	WE65
Connection standard discharge	EN 1092-2	Bearing seal	Lip seal
Shaft seal	Gland packing	Bearing type	Anti-friction bearings
Manufacturer	KSB	Lubrication type	Oil
Type	RT-P	Lubrication monitoring	Constant level oiler
Material code	RT/P	Color	Ultramarine blue (RAL 5002) KSB-blue

Data sheet



Customer pos. no.: PU ME 45 A/B/C
Purchase order date: 2009-08-10
Your P/O no.: B09M0170
Quantity: 3,000

Number: 9971598635 - 044
Line: 001500
Date: 2009-08-26
Page: 76 / 82

Etanorm RGC1 300-360

Version no.: 9

Volute casing pump in back pull-out design

Driver, accessories

Manufacturer	Flender	Motor size	315M
Coupling type	Eupex NH	Frequency	50 Hz
Nominal size	200	Operating voltage	400 V
Spacer length	250.0 mm	Rated power P2	132.00 kW
Coupling guard type	Lightweight, not treadproof (ZN79)	Rated current	235.0 A
Guard size	B254	Starting current ratio	6.8
Guard material	Galvanised steel ST TZN	Insulation class	F to IEC 34-1
Baseplate type	Etanorm R baseplate	Motor enclosure	IP55
Baseplate size	E8	Cos phi at 4/4 load	0.85
Baseplate fixing	Foundation bolts galvanized steel	Temperature sensor	3 PTC resistors
Driver type	Electric motor	Standstill heater	with
Model (make)	Siemens	Motor winding	400 / 690 V
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Number of poles	4
Motor const. type	B3	Connection mode	Delta
		Motor cooling method	Surface cooling
		Motor material	Grey cast iron GG/CAST IRON

Materials GC1

Volute casing (102)	Grey cast iron JL 1040	Joint ring (411)	DPAF Sealing plate asbestos-free
Casing cover material (161)	Grey cast iron JL 1040	Casing wear ring (502.1)	Grey cast iron JL 1040
Shaft (210)	Tempered steel C45+N	Shaft sleeve (523)	Chrome steel 1.4122+QT750
Impeller (230)	Stainless steel 1.4408	Shaft protecting sleeve (524)	Chrome steel 1.4122+QT750

Packaging

Packaging for transport	Ship	Packaging for country	Germany
Packaging for storage	Outdoor	Packaging category	B1 Wooden or plywood case, cover provided with polypropylene cellular sheet, outdoor storage up to 3 months

Nameplates

Nameplates language	English	Mount customer spec. nameplate	Without
---------------------	---------	--------------------------------	---------

Certifications

Hydrostatic pressure test with water

Range	Complete pump with shaft seal
Test pressure	15.00 bar.g
Certificate	Inspection cert. 3.1 to EN 10204
Test time	10.0 min

Hydraulic performance test

Test participation	Without customer
Acceptance standard	ISO 9906 class 2, annex A
Quantity meas. points Q-H	5

Quantity meas. points NPSH	0
Certificate	Inspection cert. 3.1 to EN 10204
Test participation	Without customer
Quantity without customer	3
Quantity with customer	0
Bearing temperature test	No

Material tests for Volute casing, casing cover, shaft, impeller (etanormr)

Certificate	Test report 2.2 to EN 10204
-------------	-----------------------------