

Customer pos. no.: PU ME 81 A/B  
 Purchase order date: 05.08.2009  
 Your P/O no.: B09M0162  
 Qty.: 2

Number: 9971596556-044

Pos-Nr.: 000400

Date: 28.08.2009

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**Centr. pump with non-clogging imp.  
 KWP K 80-403**

**Operating Data**

Flow rate	143	m <sup>3</sup> /h	Pumped product	water
min. required	28,3	m <sup>3</sup> /h	-"	5000ppm iron oxid fines
Discharge head	30,5	m	Operating temperature t/o	65 °C
Pump NPSH	2,8	m	Density (t/o)	1,005 kg/dm <sup>3</sup>
Inlet pressure	0,1	bar	Viscosity (t/o)	1 mm <sup>2</sup> /s
Outlet pressure	3,11	bar	Power input of pump (P2)	17,1 kW
Allow. dischrp pressure (t/o)	10	bar	Design speed	1465 1/min
Efficiency	69,8	%		

**Design**

Number of vanes	5	Shaft seal	Stuffing box I
Impeller diameter	324 mm	Installation drawing	W221387
Impeller outlet width	16	Code product side	Ramie fibre/PTFE
Suct. nozzle DN	100 mm	Sealing liquid quantity	3 l/min
Position	axial	Sealing liquid pressure	2,7 bar
Disch. nozzle DN	80 mm	Bearing bracket	P05AX
PN / Standard	ASME/Class 150		
Position	top !		
Drilled	RF drilled		
Explosion protection to ATEX	no		

**Accessories, Drive**

Drive	Electric motor	Coupling	Eupex
Make	KSB EFF1	Type / Size	N-H / 140
Supplied by	Driver supplied by KSB	Spacer	140 mm
Type of construction	B3	Baseplate	8S
Motor size	200L		
Nominal voltage	400/690V		
Frequency	50 Hz		
Rated power P2	30 kW		
Thermal class	F		
Type of protection	IP55		
Thermal motor protection	3		

Oil for first filling

**Data sheet**



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**Materials**

Volute casing	NORIHARD	Pump shaft	C45 + N
Suc. side wear plate	NORIHARD	Shaft protecting sleeve	1.4122 HV500
Dis. side wear plate	NORIHARD	Coupling	JL1040
Shaft seal housing	JL1040	Coupling guard	Steel
Impeller	NORIHARD	Baseplate	ST
		Anchor bolts	ST verzkt.

**Coating, Packing, Nameplates**

Coating	Std.coatg.,top coat syn.enamel	Packaging	seaworthy Packing
Finish coat	RAL 5002, ultramarine blue	Plates	english

**Documentation, Certificates**

Documentation (Quantity) 5

Qty./language	Customer
Documentation	5 English
Material certific.	5 English
Packed with the pump	1 English
Product tests	5 English

PROD.TESTS /INSPECT. 3.1B to EN10204 consisting of

*1 non-witnessed, *2 witnessed	
Hydrostatic press. test of cpl. pump set / test 15,0 bar,	
Water at 20 oC, test duration 15 min	*1
Performance test ISO 9906/2A, 5 points	*1
Final inspection	*2

MAT. CERTIFICATES 2.2 to EN 10204 consisting of:

Part No.	Description	Material	Certificate No.
101	Pump casing	NORIHARD	13
163	Discharge cover	NORIHARD	13
230	Impeller	NORIHARD	13
210	Shaft	C45+N	4
524	Shaft prot. sleeve	1.4122 HV500	19