

## Data sheet



Customer item no.:  
Communication dated: 14/03/2016  
Doc. no.: Quick quote  
Quantity: 1

Number: ES 4200523  
Item no.: 100  
Date: 14/03/2016  
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### KRTK 200-401/954UNG-P

Version no.: 1

#### Operating data

Requested flow rate	700.00 m <sup>3</sup> /h	Actual flow rate	700.00 m <sup>3</sup> /h
Requested developed head	30.00 m	Actual developed head	30.00 m
Pumped medium	Water Clean water Not containing chemical and mechanical substances which affect the materials	Efficiency	80.7 %
Ambient air temperature	20.0 °C	Power absorbed	70.80 kW
Fluid temperature	20.0 °C	Pump speed of rotation	1481 rpm
Fluid density	998 kg/m <sup>3</sup>	Shutoff head	48.23 m
Fluid viscosity	1.00 mm <sup>2</sup> /s	Design	Single system 1 x 100 %
Max. power on curve	79.43 kW	Performance test	No
			Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2

#### Design

Design	Close-coupled submersible	Impeller type	Multivane radial flow impeller (K)
Orientation	Vertical	Wear ring	Casing wear ring
Suction flange pump according to(DN1)	unmachined	Impeller diameter	351.0 mm
Discharge flange pump according to(DN2)	DN 200 / PN 10 / Drilled according to EN 1092-2	Free passage size	80.0 mm
Shaft seal	2 mech. seals in tandem arrangement with oil reservoir	Direction of rotation from drive	Clockwise
Manufacturer	KSB	Temperature sensor PT100	With
Type	MG	inboard	
Material code	SIC/SIC/NBR	Color	Ultramarine blue (RAL 5002) KSB-blue

#### Driver, accessories

Driver type	Electric motor	Number of poles	4
Model (make)	KSB	Starting mode	Direct/Star-delta possible
Motor const. type	KSB Sub. motor	Connection mode	Delta
Frequency	50 Hz	Motor cooling method	Surface cooling
Rated voltage	400 V	Motor version	U
Rated power P2	95.00 kW	Cable design	Rubber hose
Available reserve	34.17 %	Cable entry	Sealed along entire length
Rated current	186.0 A	Power cable	S1BN8-F 4G25
Starting current ratio	6.3	Number of power cables	2
Insulation class	H according IEC 34-1	Control cable	S1BN8-F 10G1.5
Motor enclosure	IP68	Number of control cables	1
Cos phi at 4/4 load	0.81	Moisture sensor	With
Motor efficiency at 4/4 load	91.3 %	Cable length	10.00 m
Temperature sensor	Bimetal switch 2x		
Motor winding	400 / 690 V		

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### Materials G

Notes		O-Ring (412)	Nitrile rubber NBR
General criteria for a water analysis: pH-value $\geq 7$ ; chloride content (Cl) $\leq 250$ mg/kg. Chlorine (Cl <sub>2</sub> ) $\leq 0.6$ mg/kg.		Casing wear ring (502.1)	Grey cast iron EN-GJL-250
Pump casing (101)	Grey cast iron EN-GJL-250	Shaft protecting sleeve (524)	Chrome steel 1.4021+QT800
Discharge cover (163)	Grey cast iron EN-GJL-250	Motor housing (811)	Grey cast iron EN-GJL-250
Shaft (210)	Chrome steel 1.4021+QT800	Motor cable (824)	Chloroprene rubber
Impeller (230)	Grey cast iron EN-GJL-250	Screw (900)	CrNiMo steel A4
Bearing bracket (330)	Grey cast iron EN-GJL-250		

### Packaging

Packaging category	B1 Wooden or plywood case, cover provided with polypropylene cellular sheet, outdoor storage up to 3 months	Packaging for storage	Indoor
Packaging for transport	Truck	Outdoor storage at -40°C to +50°C for up to 3 months. Packet must be covered. No corrosion protection, only transport protection.	
IPPC Standard ISPM 15	Yes		

### Nameplates

Nameplates language	International	Duplicate nameplate	With
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### Installation parts

Installation type	Portable
Scope of supply	Pump with installation parts
Installation depth	4.50 m
Material concept	G
Foot	
Size	
Foot type	Single feet
Material	

### Lifting chain / -rope

Type	Chain
Material	CrNiMo steel 1.4404
Length	5.00 m
Max. load	1250 kg

# Performance curve

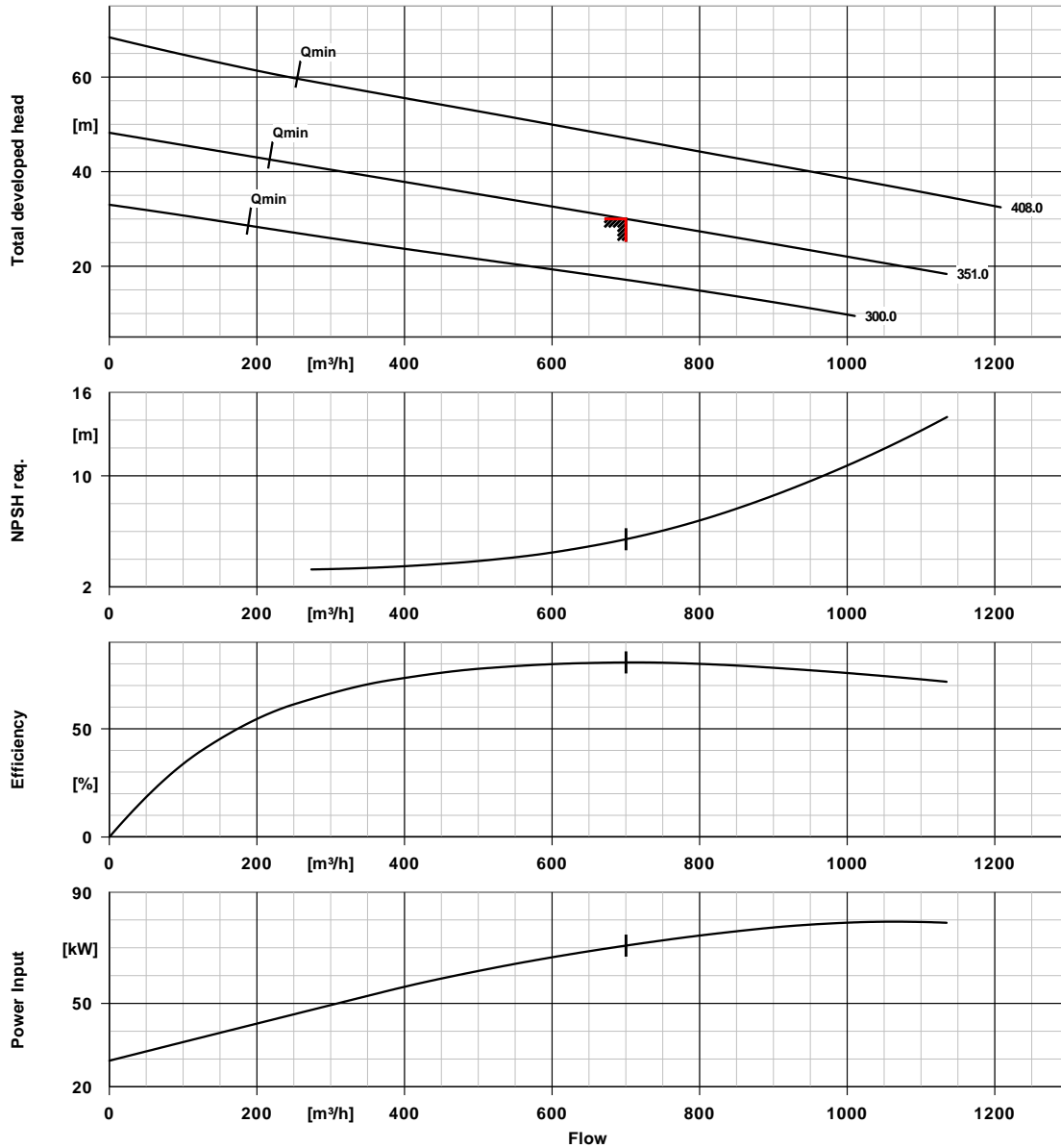


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### Curve data

Speed of rotation	1481 rpm	Efficiency	80.7 %
Fluid density	998 kg/m³	Power absorbed	70.80 kW
Viscosity	1.00 mm²/s	NPSH required	5.44 m
Flow rate	700.00 m³/h	Curve number	K43009s
Requested flow rate	700.00 m³/h	Effective impeller diameter	351.0 mm
Total developed head	30.00 m	Acceptance standard	Tolerances to ISO 9906
Requested developed head	30.00 m		Class 3B; below 10 kW
			acc. to paragraph 4.4.2

# Installation plan

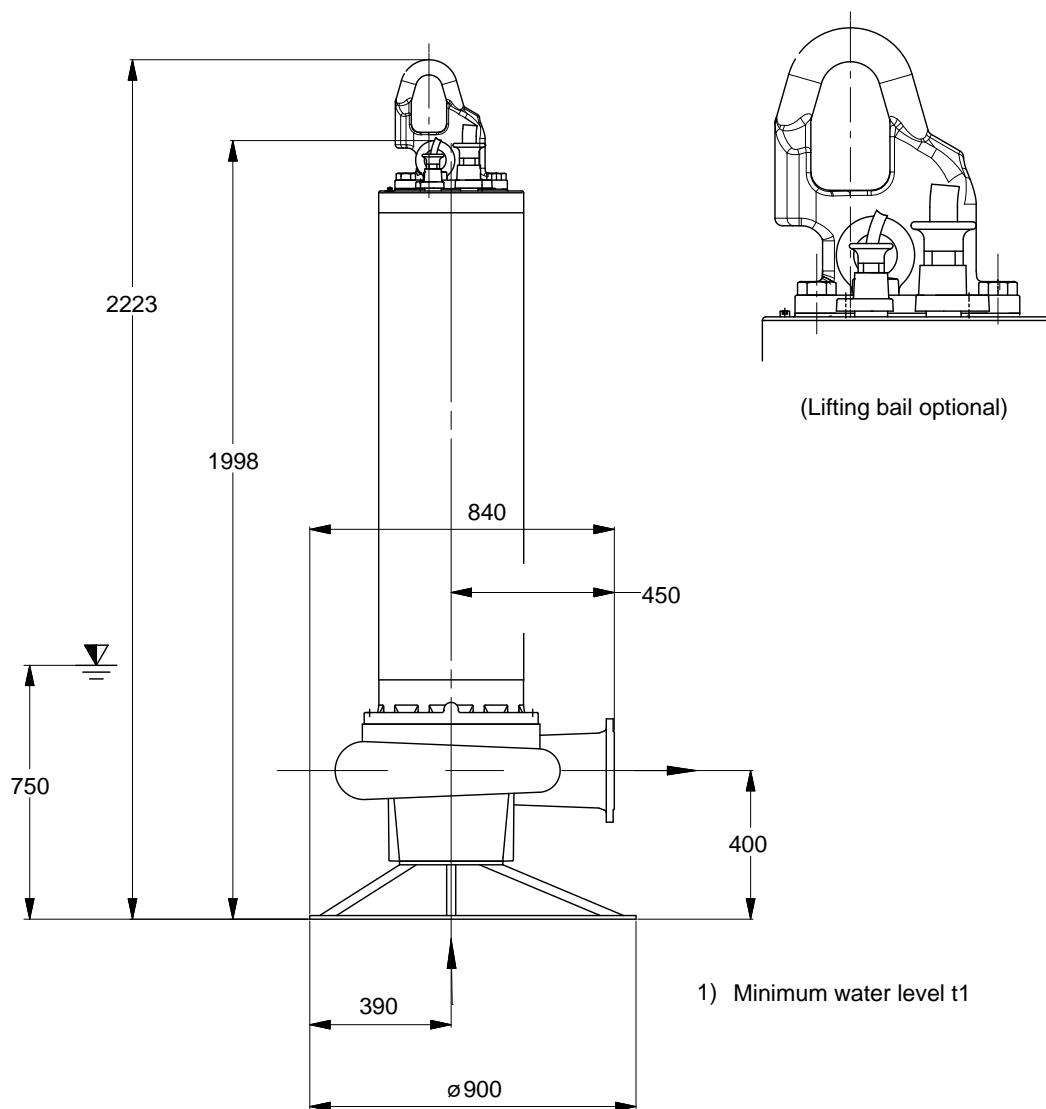


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*Drawing is not to scale*

*Dimensions in mm*

**Motor**

Motor manufacturer	KSB
Motor size	95N
Motor power	95.00 kW
Number of poles	4
Speed of rotation	1475 rpm

**Connections**

Suction flange pump	unmachined
according to(DN1)	
Discharge flange pump	DN 200 / PN 10 / Drilled
according to(DN2)	according to EN 1092-2

**Weight net**

Pump, Motor, Cable	1144 kg
Claw / Foot	33 kg
Total	1177 kg

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### **Connect pipes without stress or strain!**

Dimensional tolerances for shaft axis height:  
Dimensions without tolerances, middle tolerances to:  
Connection dimensions for pumps:  
Dimensions without tolerances - welded parts:  
Dimensions without tolerances - gray cast iron parts:

DIN 747  
ISO 2768-m  
EN735  
ISO 13920-B  
ISO 8062-CT9

**For auxiliary connections see  
separate drawing.**