

## Data sheet



Customer item no.: Lot 2  
Communication dated: 22/01/2026  
Doc. no.: ACC  
Quantity: 4

Number: ES 8004019024  
Item no.: 200  
Date: 22/01/2026  
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**KRTF 80-253/152UEC1-S**

Version no.: 1

### Operating data

|                          |                                                                              |                        |                                                                      |
|--------------------------|------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------|
| Requested flow rate      | 40.00 m <sup>3</sup> /h                                                      | Actual flow rate       | 40.45 m <sup>3</sup> /h                                              |
| Requested developed head | 35.00 m                                                                      | Actual developed head  | 35.79 m                                                              |
| Pumped medium            | Wastewater, municipal untreated                                              | Efficiency             | 38.0 %                                                               |
| Pumped medium details    | Not containing chemical and mechanical substances which affect the materials | Power absorbed         | 10.67 kW                                                             |
| Ambient air temperature  | 20.0 °C                                                                      | Pump speed of rotation | 2950 rpm                                                             |
| Fluid temperature        | 40.0 °C                                                                      | Shutoff head           | 40.07 m                                                              |
| Fluid density            | 1028 kg/m <sup>3</sup>                                                       | Max. power on curve    | 17.96 kW                                                             |
| Fluid viscosity          | 0.66 mm <sup>2</sup> /s                                                      | Design                 | Single system 1 x 100 %                                              |
| Overall efficiency       | 33.7 %                                                                       | Performance test       | No                                                                   |
|                          |                                                                              |                        | Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2 |

### Design

|                                                 |                                                        |                                  |                                     |
|-------------------------------------------------|--------------------------------------------------------|----------------------------------|-------------------------------------|
| Design                                          | Close-coupled submersible                              | Type                             | MG                                  |
| Orientation                                     | Vertical                                               | Material code                    | SIC/SIC/NBR                         |
| Suction flange pump drilled according to(DN1)   | unmachined                                             | Impeller type                    | Free flow (vortex) impeller (F-max) |
| Discharge flange pump drilled according to(DN2) | DN 80 / PN 10 / Drilled according to EN 1092-2         | Impeller diameter                | 170.0 mm                            |
| Shaft seal                                      | 2 mech. seals in tandem arrangement with oil reservoir | Free passage size                | 76 mm                               |
| Shaft seal manufacturer                         | KSB                                                    | Direction of rotation from drive | Clockwise                           |

### Driver, accessories

|                              |                      |                        |                            |
|------------------------------|----------------------|------------------------|----------------------------|
| Driver type                  | Electric motor       | Motor winding          | 400 / 690 V                |
| Model (make)                 | KSB                  | Number of poles        | 2                          |
| Motor const. type            | KSB Sub. motor       | Starting mode          | Direct/Star-delta possible |
| Frequency                    | 50 Hz                | Connection mode        | Delta                      |
| Rated voltage                | 400 V                | Motor cooling method   | Surface cooling            |
| Rated power P2               | 15.00 kW             | Motor version          | U                          |
| Available reserve            | 40.57 %              | Cable design           | Rubber hose                |
| Rated current                | 27.7 A               | Cable entry            | Sealed along entire length |
| Starting current ratio       | 9                    | Power cable            | S1BN8-F 12G2.5             |
| Insulation class             | H according IEC 34-1 | Number of power cables | 1                          |
| Motor enclosure              | IP68                 | Moisture sensor        | With                       |
| Cos phi at 4/4 load          | 0.88                 | Cable length           | 10.00 m                    |
| Motor efficiency at 4/4 load | 88.7 %               |                        |                            |
| Temperature sensor           | Bimetal switch 2x    |                        |                            |

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### Materials C1

|                       |                                |                     |                                |
|-----------------------|--------------------------------|---------------------|--------------------------------|
| Pump casing (101)     | GX2CRNIMOCUN25-6-3-3<br>1.4517 | O-Ring (412)        | Nitrile rubber NBR             |
| Discharge cover (163) | GX2CRNIMOCUN25-6-3-3<br>1.4517 | Motor housing (811) | GX2CRNIMOCUN25-6-3-3<br>1.4517 |
| Shaft (210)           | Duplex stainless steel 1.4462  | Motor cable (824)   | Chloroprene rubber             |
| Impeller (230)        | GX2CRNIMOCUN25-6-3-3<br>1.4517 | Screw (900)         | CrNiMo steel A4                |
| Bearing bracket (330) | GX2CRNIMOCUN25-6-3-3<br>1.4517 |                     |                                |

### Packaging

|                       |                                  |                         |       |
|-----------------------|----------------------------------|-------------------------|-------|
| Packaging category    | A0 Packing acc. to KSB<br>choice | Packaging for transport | Truck |
| Packaging for storage | Indoor                           |                         |       |

### Nameplates

|                     |               |                     |      |
|---------------------|---------------|---------------------|------|
| Nameplates language | International | Duplicate nameplate | With |
|---------------------|---------------|---------------------|------|

### Installation parts

|                    |                                                                                                                                  |              |               |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|
| Installation type  | stationary 2 guide rail                                                                                                          | Type         | Rope          |
| Scope of supply    | Pump with installation parts<br>For guide rail arrangements,<br>the guide rails are not<br>included in KSB's scope of<br>supply. | Material     | Polypropylene |
|                    |                                                                                                                                  | Length       | 5.00 m        |
|                    |                                                                                                                                  | Max. load    | 200 kg        |
|                    |                                                                                                                                  | Lifting Bail | With          |
| Installation depth | 4.50 m                                                                                                                           |              |               |
| Material concept   | C1                                                                                                                               |              |               |

### Duckfoot bend

|                                   |                                |
|-----------------------------------|--------------------------------|
| Size                              | DN 80                          |
| Flange design                     | EN                             |
| Duckfoot bend size (DN2 /<br>DN3) | DN80 Drilled according to EN   |
| Material                          | GX2CRNIMOCUN25-6-3-3<br>1.4517 |
| Mounting type                     | Composite anchor bolts         |
| Foundation rail                   | Without                        |

### Claw

|        |          |
|--------|----------|
| Design | Straight |
| Size   | DN 80    |

### Lifting chain / -rope

## Performance curve

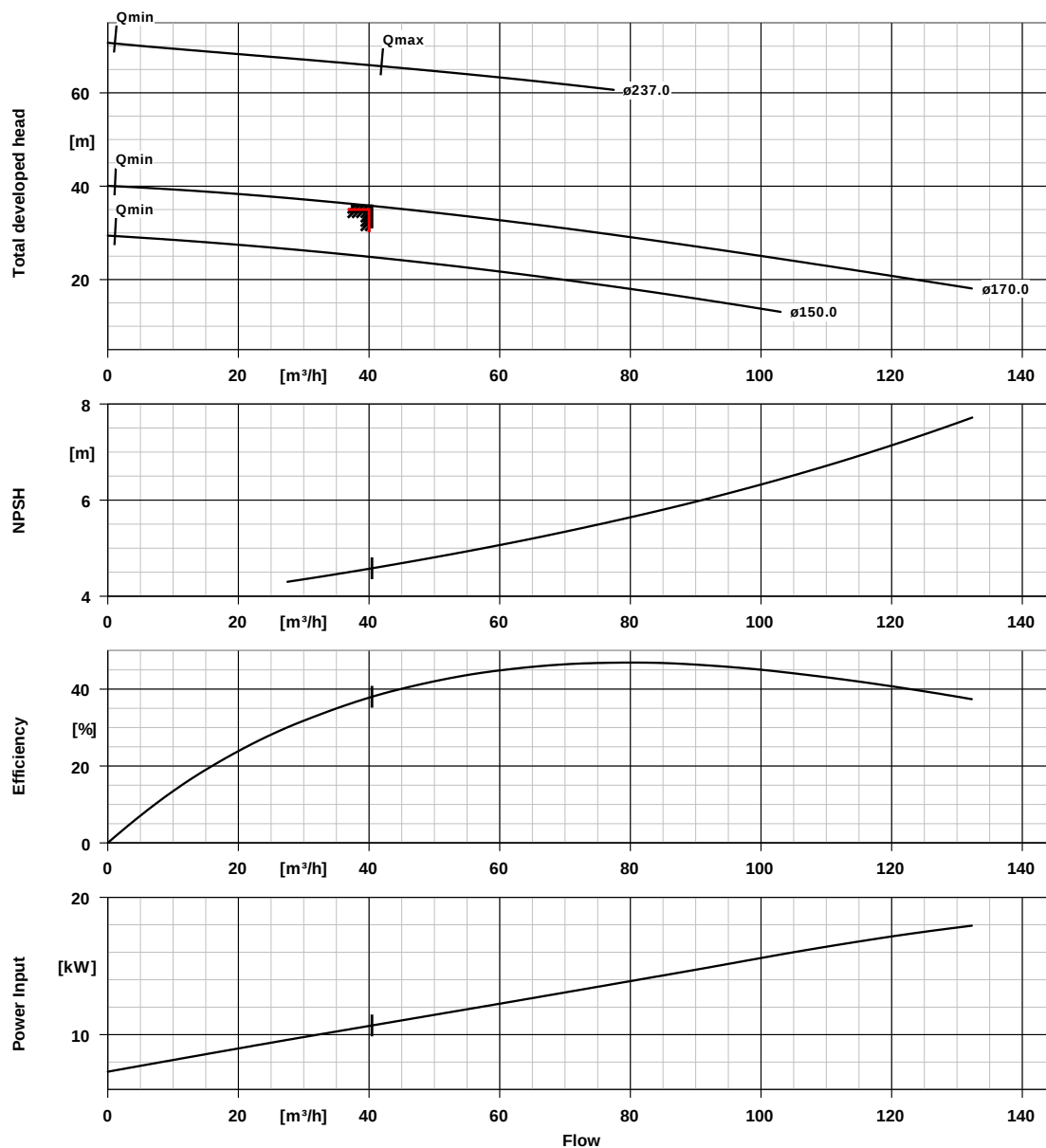


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### Curve data

Speed of rotation 2950 rpm  
Fluid density 1028 kg/m<sup>3</sup>  
Viscosity 0.66 mm<sup>2</sup>/s  
Flow rate 40.45 m<sup>3</sup>/h  
Requested flow rate 40.00 m<sup>3</sup>/h  
Total developed head 35.79 m  
Requested developed head 35.00 m

Efficiency 38.0 %  
Power absorbed 10.67 kW  
NPSH 3% 4.58 m  
Curve number K43398/1  
Effective impeller diameter 170.0 mm  
Acceptance standard Tolerances to ISO 9906  
Class 3B; below 10 kW  
acc. to paragraph 4.4.2

## Installation plan

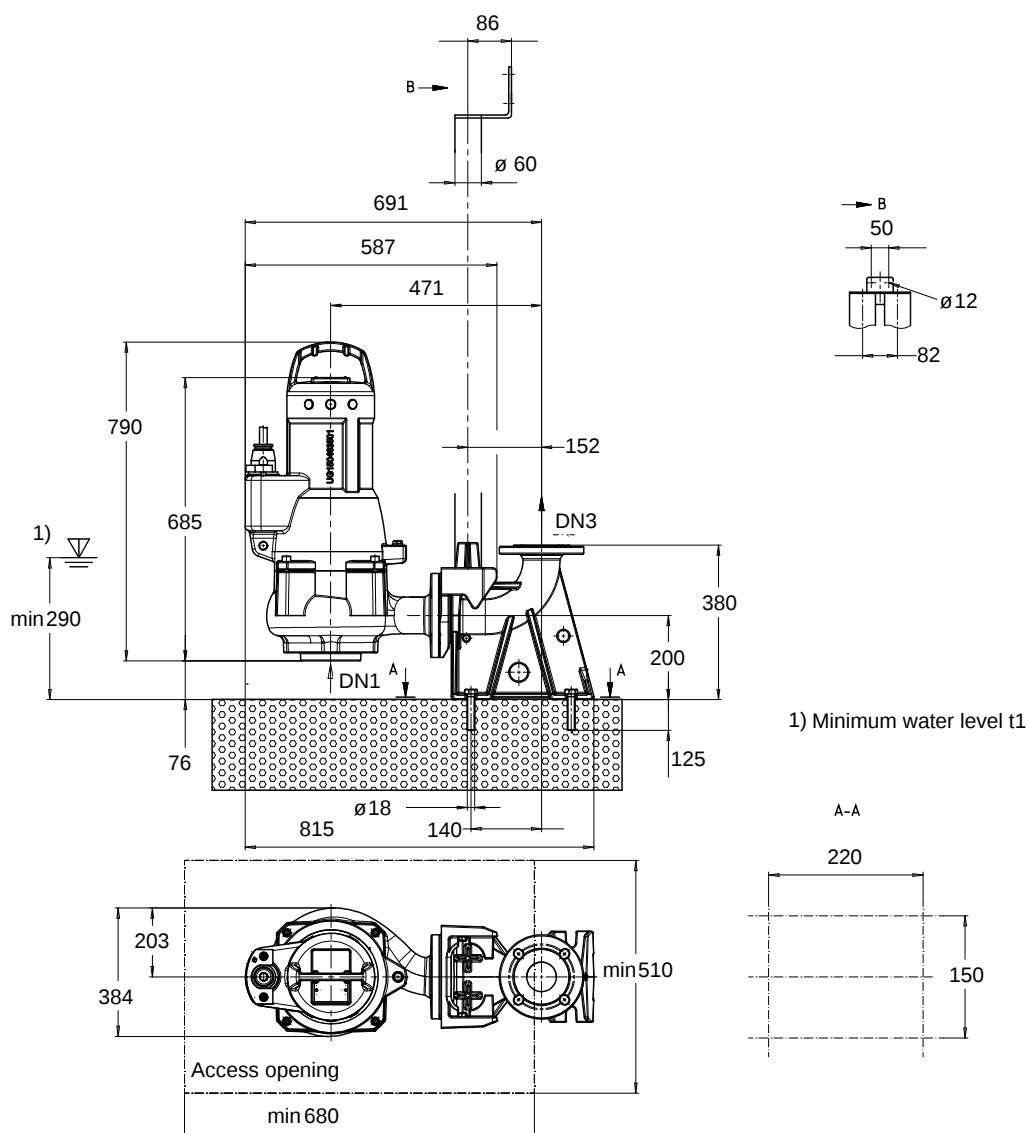


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*Drawing is not to scale*

*Dimensions in mm*

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### Motor

|                    |          |
|--------------------|----------|
| Motor manufacturer | KSB      |
| Motor size         | 15E      |
| Motor power        | 15.00 kW |
| Number of poles    | 2        |
| Speed of rotation  | 2929 rpm |

### Connections

|                                                |                               |
|------------------------------------------------|-------------------------------|
| Suction flange pump drilled according to (DN1) | unmachined                    |
| Duckfoot bend size (DN2 / DN3)                 | DN 80 Drilled according to EN |

### Weight net

|                           |        |
|---------------------------|--------|
| Pump, Motor, Cable , Claw | 193 kg |
| Duckfoot bend             | 35 kg  |
| Total                     | 228 kg |

**For auxiliary connections see separate drawing.**

### Connect pipes without stress or strain!

Dimensional tolerances for shaft axis height: DIN 747  
Dimensions without tolerances, middle tolerances to:  
Connection dimensions for pumps:  
Dimensions without tolerances - welded parts:  
Dimensions without tolerances - gray cast iron parts:  
Dimensions without tolerances - stainless steel parts:

ISO 2768-m  
EN735  
ISO 13920-B  
ISO 8062-CT11  
ISO 8062-CT12