

Multitec D 125/6-10.1 10.167**Operating data**

Requested flow rate	200.15 m³/h	Actual flow rate	200.15 m³/h
Requested developed head	152.00 m	Actual developed head	152.02 m
Pumped medium	Water	Efficiency	77.6 %
	Clean water	Power absorbed	106.57 kW
Pumped medium details	Not containing chemical and mechanical substances which affect the materials	Pump speed of rotation	1492 rpm
Solids content max. 50 ppm		NPSH required	2.35 m
Max. ambient air temperature	20.0 °C	Permissible operating pressure	40.00 bar.g
Min. ambient air temperature	20.0 °C	Discharge press.	14.88 bar.g
Fluid temperature	20.0 °C	Shutoff head	202.28 m
Fluid density	998 kg/m³	Shutoff pressure	19.80 bar.g
Fluid viscosity	1.00 mm²/s	Minimum allowable flow for continuous operation	63.22 m³/h
Vapour pressure	0.02 bar.a	Minimum flow for stable curve	63.22 m³/h
Suction pressure max.	0.00 bar.g	Min. mass flow for stable curve	17.53 kg/s
Mass flow rate	55.49 kg/s	Max. allow. flow rate	234.82 m³/h
Max. power on curve	114.54 kW	Max. allow. mass flow	65.10 kg/s
Min. allow. flow for short term operation	45.16 m³/h	Design	Single system 1 x 100 % Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Min. allow. mass flow for continuous operation	17.53 kg/s		
Min. allow. mass flow short term operation	12.52 kg/s		

Design

Variant	D	Shaft seal code	167
Stage number	6	Sealing plan	E Single acting mechanical (external circulation)
Balance drum	with piston	Pumped liquid without abrasive solids	
Design	Baseplate mounted, long-coupled	Seal chamber design	Standard seal chamber
Orientation	Horizontal	Wear ring	Casing wear ring
Suction nominal dia.	DN 150	Impeller diameter	301.0 mm
Suction nominal pressure	PN 16	Minimum impeller diameter	274.0 mm
Suction position	90° (right)	Full impeller diameter	305.0 mm
Suction flange drilled according to standard	EN 1092-2	Free passage size	20 mm
Discharge nominal dia.	DN 125	Direction of rotation from drive	Anticlockwise
Discharge nominal pressure	PN 40	Bearing bracket construction	Standard (normal) two-sided
Discharge position	top (0°/360°)	Bearing bracket size	125
Discharge flange drilled according to standard	EN 1092-2	Bearing seal	Lip seal
Shaft seal	Single acting mechanical seal	Bearing type	Anti-friction bearings
Shaft seal manufacturer	KSB	Lubrication type	Oil
Shaft seal type	5B	Lubrication monitoring	Constant level oiler
Material code	BQ1EGG	Temperature sensor PT100 mts	Without
		Color	Ultramarine blue (RAL 5002) KSB-blue

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Coupling Manufacturer	Flender	Rated voltage	400 V
Coupling type	EupeX N	Rated power P2	132.00 kW
Nominal size	200	Available reserve	23.86 %
Coupling guard type	Lightweight, not treadproof (ZN79)	Rated current	238.0 A
Guard size	H254	Starting current ratio	7.3
Guard material	Galvanised steel ST TZN	Insulation class	F to IEC 34-1
Baseplate type	Steel baseplate for Multitec	Motor enclosure	IP55
Baseplate size	GP13	Cos phi at 4/4 load	0.83
Driver type	Electric motor	Motor efficiency at 4/4 load	96.4 %
Drive standard mech.	IEC	Temperature sensor	3 PTC resistors
Model (make)	KSB-Motor	Terminal box position	0°/360° (top)
Drive supplied by	Standard motor supplied by KSB - mounted by KSB		Viewed from the drive
Motor const. type	B3	Motor winding	400 / 690 V
Motor size	315M	Number of poles	4
Efficiency class	Efficiency class IE4 acc. to IEC60034-30-1	Connection mode	Delta
Motor speed	1492 rpm	Motor cooling method	Surface cooling
Frequency	50 Hz	Motor material	Grey cast iron GG/CAST IRON
		Motor noise pressure level	71 dBA
		Motor data can vary from type plate information. Motor data describes KSB's choice functional specification and is used for pump selection.	
		EAC Approval	Yes

Materials 10

Notes		Bearing housing (350)	Grey cast iron EN-GJL-250
General criteria for a water analysis: pH-value ≥ 6.5 ; chloride content (Cl) ≤ 250 mg/kg. Chlorine (Cl ₂) ≤ 0.6 mg/kg.		O-Ring (412)	EPDM 80
Suction casing (106)	Grey cast iron EN-GJL-250	Shaft seal housing (441)	Grey cast iron EN-GJL-250
Discharge casing (107)	Grey cast iron EN-GJL-250	Casing wear ring (502.1)	Grey cast iron EN-GJL-250
Stage casing (108)	Grey cast iron EN-GJL-250	Casing wear ring (502.2)	Grey cast iron EN-GJL-250
Diffuser (171)	Grey cast iron EN-GJL-250	Shaft sleeve (523)	Chrome steel 1.4057+QT800
Shaft (210)	Tempered steel C45+N	Bush (540)	Grey cast iron EN-GJL-250
Impeller (230)	Grey cast iron EN-GJL-250	Piston (59-4)	Chrome steel
Impeller, suction stage (231)	Grey cast iron EN-GJL-250		1.4021QT700+SR
		Tie bolt (905)	42CrMo4

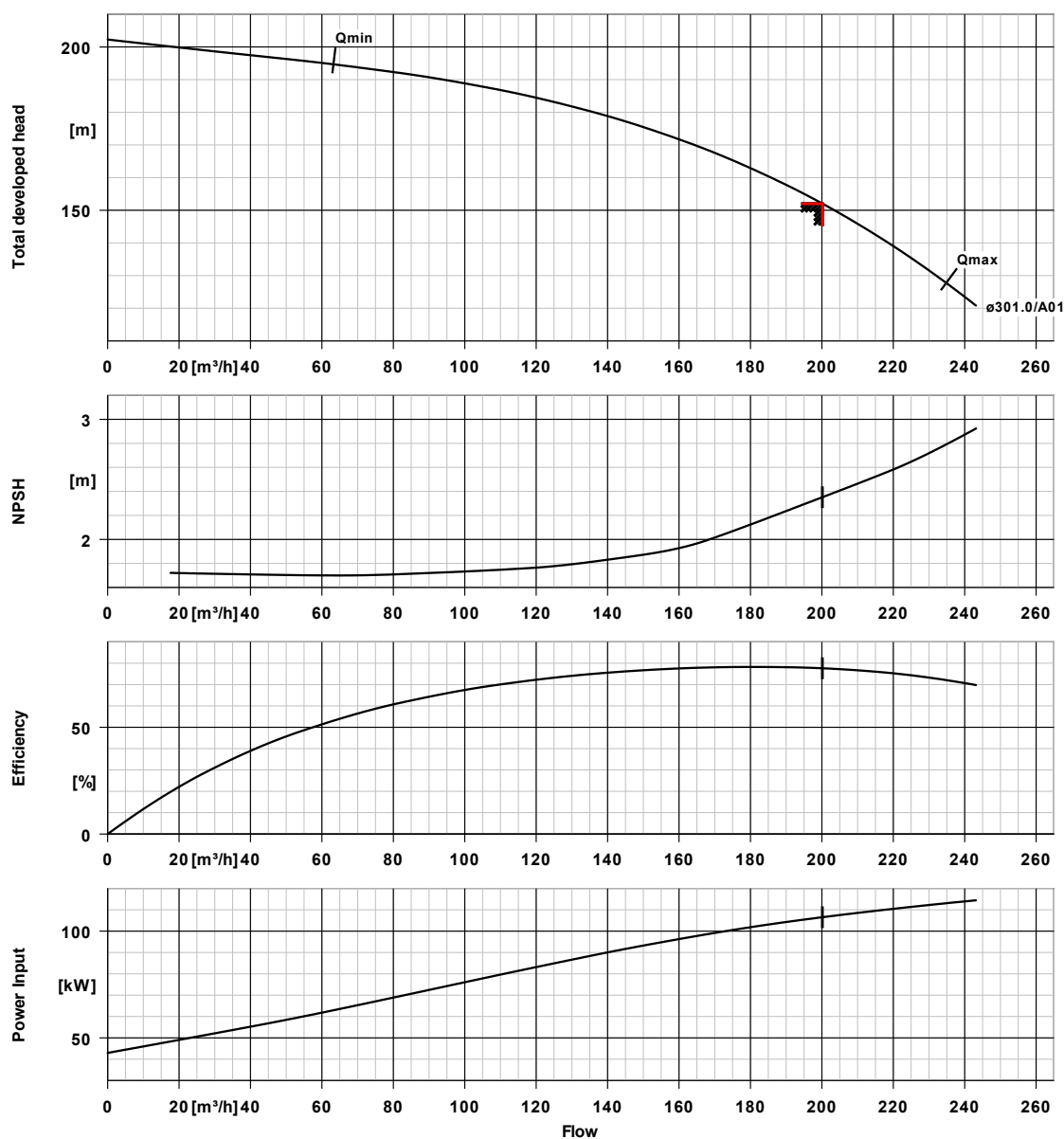
Packaging

Packaging category	A0 Packing acc. to KSB choice	Packaging for transport	Truck
Packaging for storage	Indoor	Storage must not exceed 3 months. For outdoor storage cover the packed or unpacked pump (set) and accessories with waterproof material.	

Nameplates

Nameplates language	International
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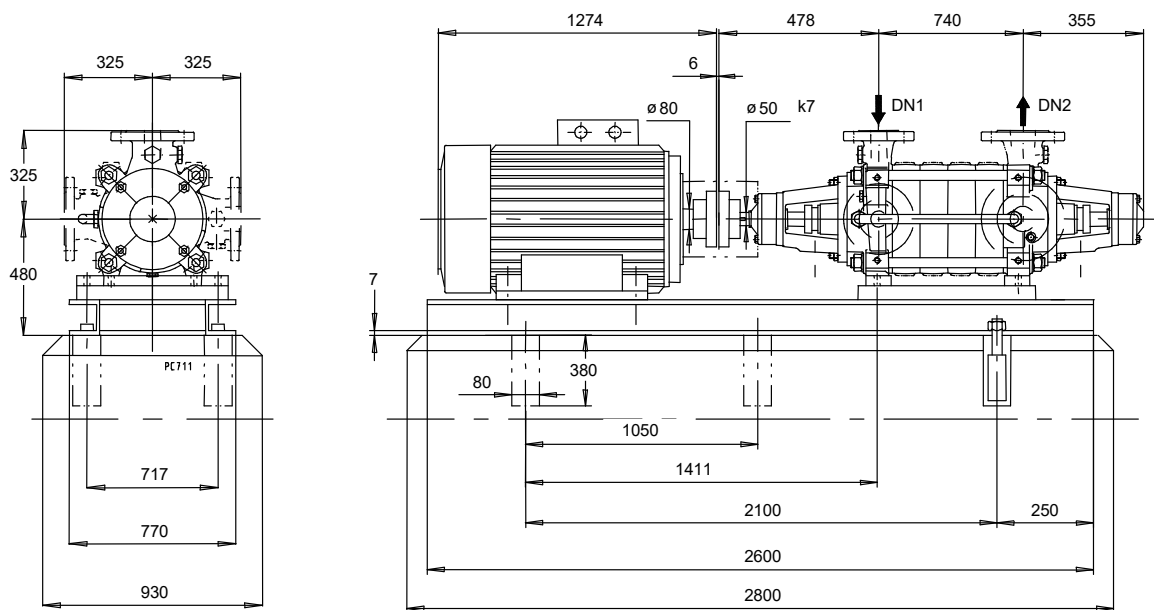
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Curve data

Speed of rotation	1492 rpm	Efficiency	77.6 %
Fluid density	998 kg/m ³	Power absorbed	106.57 kW
Viscosity	1.00 mm ² /s	NPSHR	2.35 m
Flow rate	200.15 m ³ /h	Curve number	1777.407541/10 GG/2
Requested flow rate	200.15 m ³ /h	Impeller diameter	301.0 mm
Total developed head	152.02 m	Acceptance standard	Tolerances to ISO 9906
Requested developed head	152.00 m		Class 3B; below 10 kW
			acc. to paragraph 4.4.2

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Drawing is not to scale

Dimensions in mm

Motor (not included)

Motor manufacturer	KSB-Motor
Motor size	315M
Motor power	132.00 kW
Number of poles	4
Speed of rotation	1492 rpm
Position of terminal box	0°/360° (top) Viewed from the drive

Baseplate (not included)

Design	Steel baseplate for Multitec
Size	GP13
Leakage drain baseplate (8B)	Rp1, Without
Baseplate drain piping execution	Without
Foundation bolts	M20x320 (required but not scope of supply)

Connections

Suction nominal size DN1	DN 150 / EN 1092-2
Discharge nominal size DN2	DN 125 / EN 1092-2
Nominal pressure suct.	PN 16
Rated pressure disch.	PN 40

Coupling (not included)

Coupling manufacturer	Flender
Coupling type	Eupex N
Coupling size	200
Spacer	0.0 mm

Weight net

Pump	753 kg
Baseplate	
Coupling	
Coupling guard	
Motor	
Total	

Connect pipes without stress or strain!

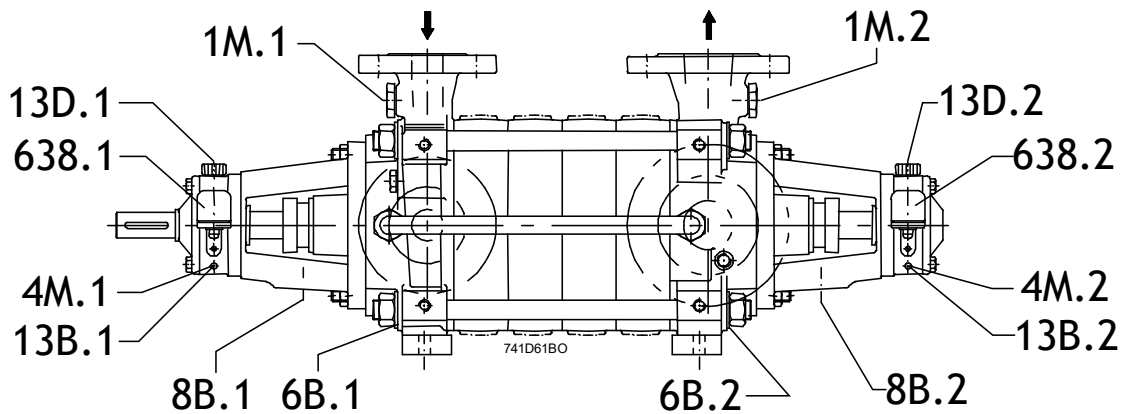
Dimensional tolerances for shaft axis height:
 Dimensions without tolerances, middle tolerances to:
 Connection dimensions for pumps:
 Dimensions without tolerances - welded parts:
 Dimensions without tolerances - gray cast iron parts:

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

For auxiliary connections see separate drawing.

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Connections

1M.1 Pressure gauge connection	G 1/2	Drilled and plugged.
1M.2 Pressure gauge connection	G 1/2	Drilled and plugged.
4M.1 Temperature gauge connection (Suction side)	Rp 1/2	Drilled and plugged.
4M.2 Temperature gauge connection (Pressure side)	Rp 1/2	Drilled and plugged.
6B.1 Pumped liquid drain	G 1/2	Drilled and plugged.
6B.2 Pumped liquid drain	G 1/2	Drilled and plugged.
8B.1 Leakage drain	Rp 3/8	Drilled
8B.2 Leakage drain	Rp 3/8	Drilled
13B.1 Oil drain	Rp 1/4	Drilled and plugged.
13B.2 Oil drain	Rp 1/4	Drilled and plugged.
13D.1 Refill / venting	Rp 1/2	Closed with venting plug
13D.2 Refill / venting	Rp 1/2	Closed with venting plug
638 Constant level oiler	Rp 1/4	Mounted at the factory