

MovitecVC115/08-08AA16CSB5VW

Multistage high pressure immersion centrifugal pump

Operating data

Pumped medium	Water Clean water Not containing chemical and mechanical substances which affect the materials	Actual flow rate	17.81 m ³ /h
Ambient air temperature	20.0 °C	Actual developed head	88.69 m
Fluid temperature	20.0 °C	Efficiency	67.7 %
Fluid density	998 kg/m ³	Power absorbed	6.35 kW
Fluid viscosity	1.00 mm ² /s	Pump speed of rotation	2944 rpm
Suction pressure max.	0.00 bar.g	NPSH required	2.18 m
		Permissible operating pressure	25.00 bar.g
		Discharge press.	8.68 bar.g
Mass flow rate	4.94 kg/s	Min. allow. mass flow for continuous stable operation	0.50 kg/s
Max. power on curve	6.63 kW	Max. allow. mass flow	6.13 kg/s
Min. allow. flow for continuous stable operation	1.80 m ³ /h	Design	Single system 1 x 100 % Tolerances to ISO 9906 Class 3B; below 10 kW acc. to paragraph 4.4.2
Shutoff head	120.06 m		

Design

Pump standard	High-pressure multistage immersion execution	Type	RMG-CT
Design	Close-coupled	Material code	U3U3VGG
Orientation	Vertical	Shaft seal code	16
Suction position	axial	Sealing plan	CI Cartridge single-acting mechanical seal(internal circulation)
Discharge nominal dia.	G 2		
Discharge nominal pressure	PN 25	A liquid free of solids is assumed	
Discharge position	radial	Seal chamber design	Standard seal chamber
Discharge flange drilled according to standard	EN ISO 228-1	Contact guard	With
Shaft seal	Single acting mechanical seal	Impeller diameter	110.0 mm
Manufacturer	DP	Direction of rotation from drive	Clockwise
		Color	Ultramarine blue (RAL 5002) KSB-blue

Driver, accessories

Driver type	Electric motor	Motor enclosure	IP55
Drive standard mech.	IEC	Cos phi at 4/4 load	0.90
Model (make)	KSB (DMW)	Motor efficiency at 4/4 load	90.1 %
Drive supplied by	Standard motor supplied by KSB - mounted by KSB	Temperature sensor	3 PTC resistors
Motor const. type	V1	Terminal box position	90° (right) Viewed from the drive
Motor size	132M	Motor winding	400 / 690 V
Efficiency class	Efficiency class IE3 acc. to IEC60034-30-1	Number of poles	2
Motor speed	2943 rpm	Fixed bearing reinforced	axial
Frequency	50 Hz	Connection mode	Delta
Rated voltage	400 V	Motor cooling method	Surface cooling
Rated power P2	7.50 kW	Motor material	Aluminium
Available reserve	35.44 %	Frequency inverter operation allowed	FI allowed
Rated current	13.4 A	Motor noise pressure level	68 dBa
Starting current ratio	8		
Insulation class	F to IEC 34-1		

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Materials VC

Notes

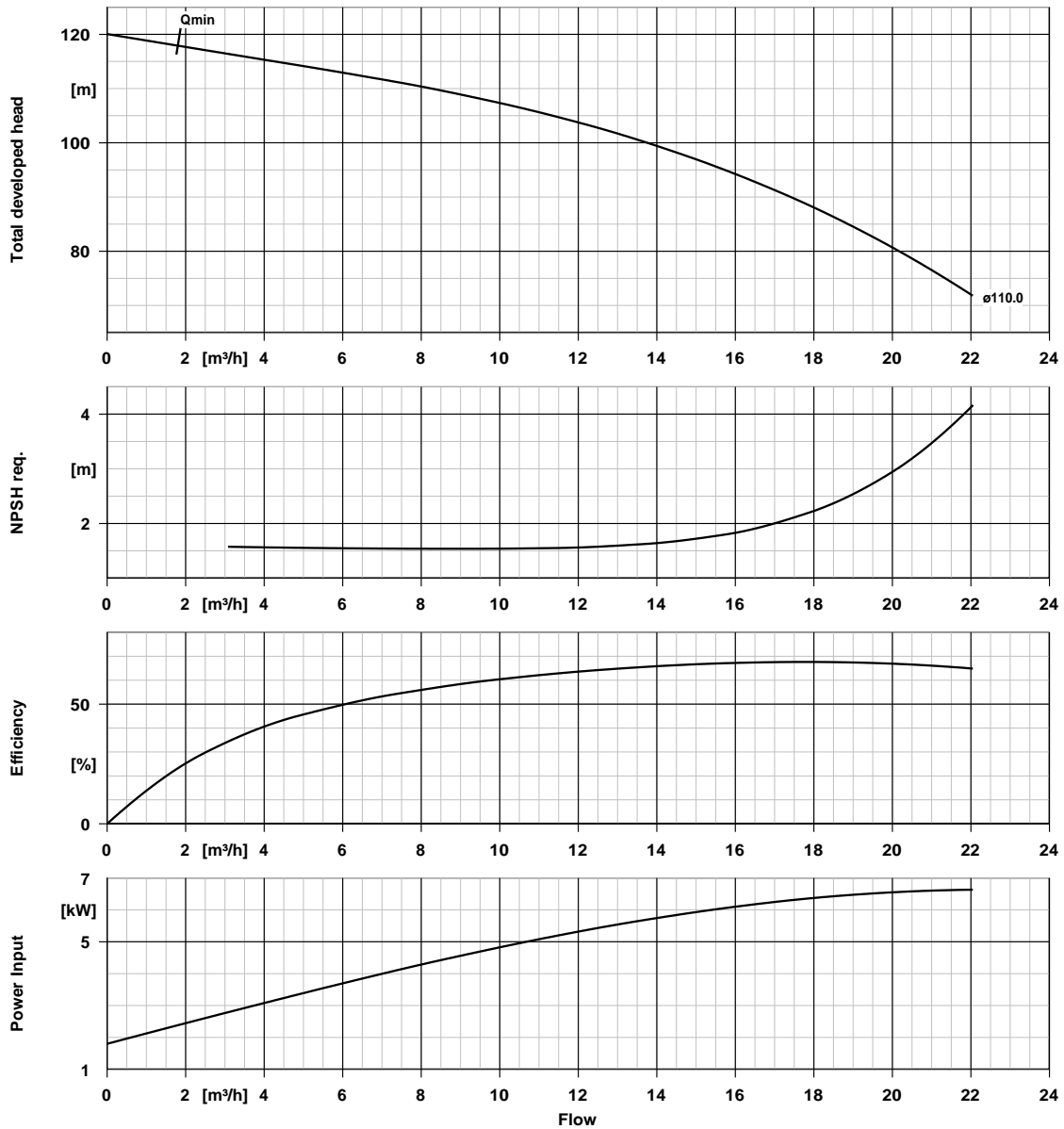
General criteria for a water analysis: pH-value ≥ 7 ; chloride content (Cl) ≤ 250 mg/kg. Chlorine (Cl₂) ≤ 0.6 mg/kg.

Suction casing (106)	Grey cast iron EN-GJL-250
Stage casing (108)	Stainless steel 1.4301
Shaft (210)	Chrome steel 1.4057+QT800
Impeller (230)	Stainless steel 1.4301
Motor stool (341)	Grey cast iron EN-GJL-250

O-Ring (412)
Seal cover (471)
Bearing sleeve (529)
Screwed plug (903)
Tie bolt (905)
Nut (920)

Fluor caoutchouc FPM
Stainless Steel 1.4308
Tungsten Carbide
Stainless steel 1.4301
Chrome steel 1.4057+QT800
Stainless steel 1.4301

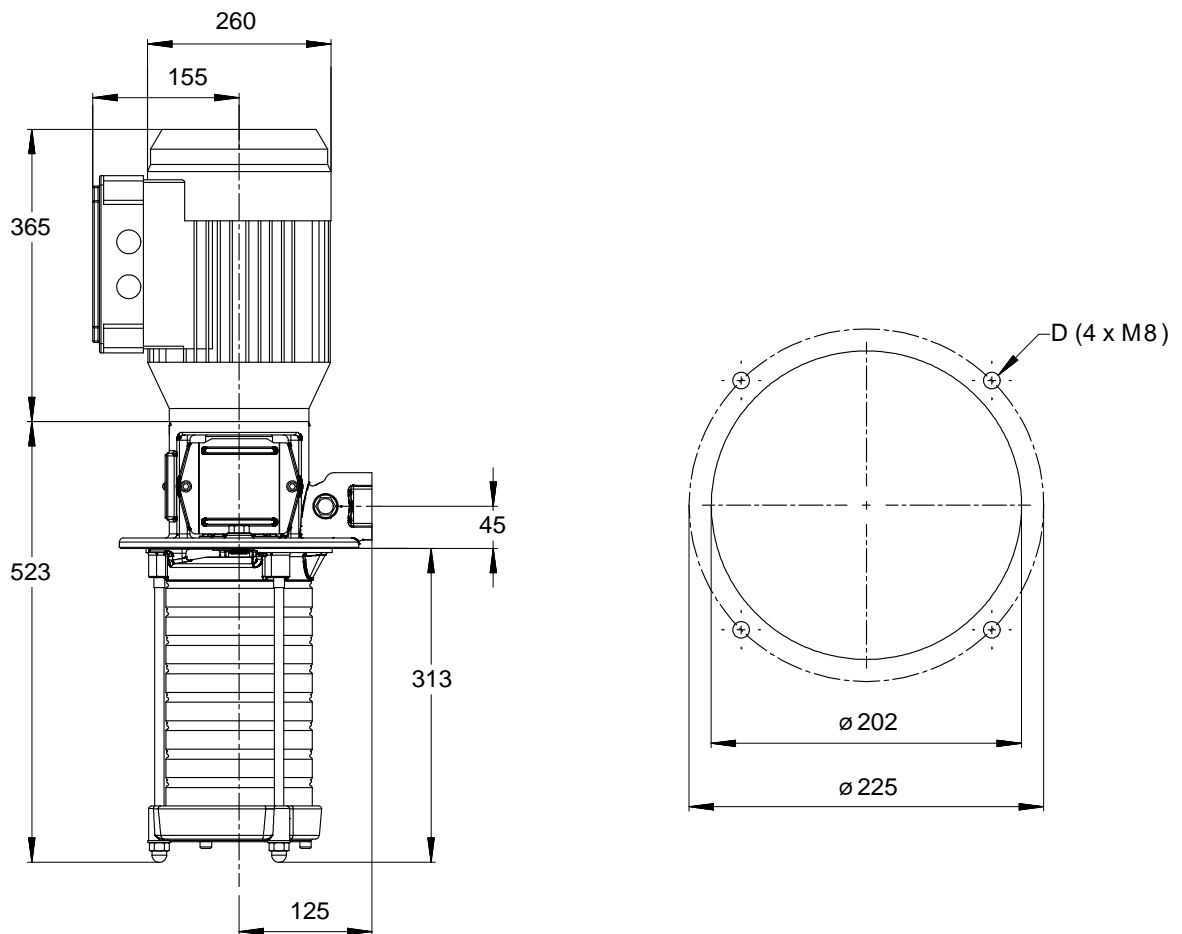
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Curve data

Speed of rotation	2944 rpm	Power absorbed	6.35 kW
Fluid density	998 kg/m³	NPSH required	2.18 m
Viscosity	1.00 mm²/s	Curve number	Mov15TNG2900
Flow rate	17.81 m³/h	Effective impeller diameter	110.0 mm
Total developed head	88.69 m	Acceptance standard	Tolerances to ISO 9906
Efficiency	67.7 %		Class 3B; below 10 kW
			acc. to paragraph 4.4.2

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Drawing is not to scale

Dimensions in mm

Motor

Motor manufacturer	KSB (DMW)
Motor size	132M
Motor power	7.50 kW
Number of poles	2
Speed of rotation	2943 rpm
Position of terminal box	90° (right)
Thrust bearing housing	Viewed from the drive
	No

Connections

Discharge nominal size DN2	G 2 / EN ISO 228-1
Rated pressure disch.	PN 25

Weight net

Pump	45 kg
Motor	46 kg
Total	91 kg

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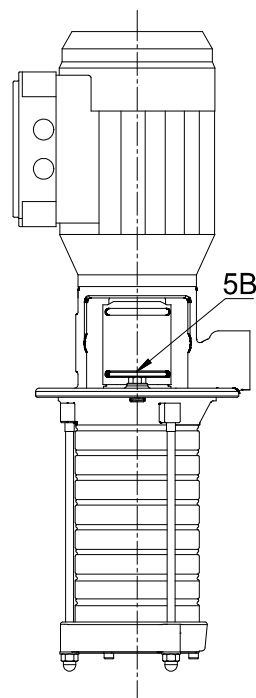
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Connect pipes without stress or strain!

**For auxiliary connections see
separate drawing.**

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Connections

5B venting

Closed with venting plug