

96 G^oCPKN-C1 100-200 ft\ bY; Y }i gYŁ

Chemical pump to EN 22858/ISO 2858/ISO 5199

Operating data

Requested flow rate	Á	Actual flow rate	199.97 m ³ /h
Requested developed head	Á	Actual developed head	42.49 m
Pumped medium	Beer wort without further specification Materials are not affected by chemical and mech. substances	Efficiency	79.5 %
Fluid temperature	20.0 °C	Power absorbed	32.54 kW
Fluid density	1118 kg/m ³	Pump speed of rotation	2955 rpm
Fluid viscosity	1.00 mm ² /s	NPSH required	6.06 m
Requested inlet pressure	0.00 bar.g	Permissible operating pressure	16.00 bar.g
Mass flow rate	62.10 kg/s	Discharge pressure	4.66 bar.g
Max. power on curve	36.91 kW	Min. allow. flow rate	21.47 m ³ /h
		Min. allow. mass flow rate	6.67 kg/s
		Shutoff head	48.73 m

Execution

Pump without drive group accessories		Type	MG1G6
Pump standard	ISO 5199	Material code	Q1Q1EGG
Design	Baseplate mounted, long coupled	Sealing plan	A Single acting mechanical seal (A casing cover, taper bore)
Orientation	Horizontal	Seal chamber design	Conical seal chamber (A- cover)
Shaft execution	dry	Wear ring type	Without wear rings
Suction nominal dia.	DN 125	Impeller diameter	188.0 mm
Suction nominal pressure	PN 16	Direction rotation from drive	Clockwise
Suction position	axial	Bearing bracket construction	Reinforced (heavy)
Discharge nominal dia.	DN 100	Bearing bracket size	UP03
Discharge nominal pressure	PN 16	Bearing seal	Lip seal
Pump discharge position	top (0°/360°)	Bearing type	Anti-friction bearings
Flange standard	EN 1092-1	Lubrication type	Oil
Shaft seal	Single acting mechanical seal	Lubrication monitoring	Constant level oiler
Manufacturer	Burgmann	Colour	Ultramarine blue (RAL 5002) KSB-blue

Driver, accessories

Driver type	Electric motor	Frequency	50 Hz
Drive supplied by	without motor	Number of poles	2
Motor size	200L		

Materials C1

Volute casing (102)	Stainless steel 1.4408	Seal cover (471)	Stainless steel 1.4571
Casing cover (161)	Stainless steel 1.4408	Casing wear ring (502.1)	Stainless steel 1.4408
Shaft (210)	Tempered steel C45+N	Shaft protecting sleeve (524)	Stainless steel 1.4571
Impeller (230)	Stainless steel 1.4408	Joint ring (411.10)	Thermoplastic PTFE-GF25
Bearing bracket lantern (344)	Grey cast iron JL 1040	Joint ring (411.31)	CrNi steel/carbon CRNI- GRAFIT 1F

EBS CPKN-C1 100-200 (ohne Gehäuse!)

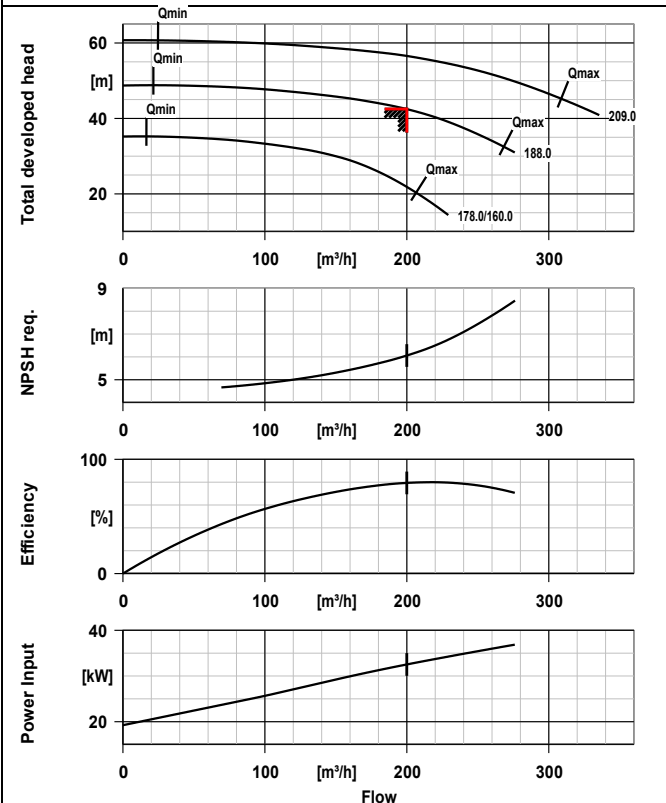
Chemical pump to EN 22858/ISO 2858/ISO 5199

Auxiliary connections

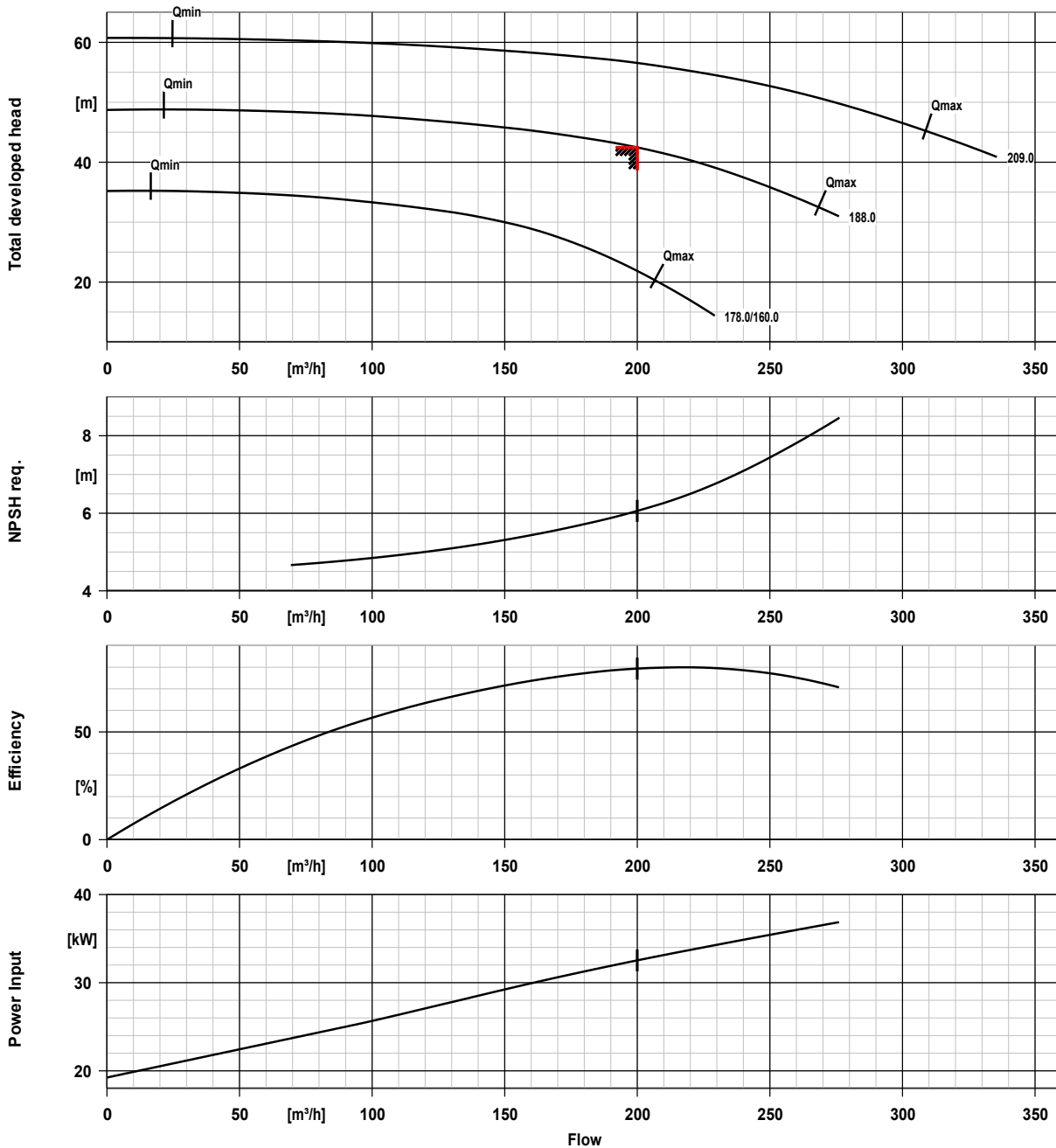
6B Auxiliary piping nominal size	G 3/8	6B Shutoff device	without
6B Connection to pump	none		

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Execution Pump without drive group accessories Pump standard ISO 5199 Design Baseplate mounted, long coupled Orientation Horizontal Shaft execution dry Suction nominal dia. DN 125 Discharge nominal dia. DN 100 Discharge nominal pressure PN 16 Flange standard EN 1092-1 Shaft seal Single acting mechanical seal Material code Q1Q1EGG Seal chamber design Conical seal chamber (A-cover) Impeller diameter 188.0 mm Direction rotation from drive Clockwise Lubrication monitoring Constant level oiler Colour Ultramarine blue (RAL 5002) KSB-blue		Materials C1 Volute casing (102) Stainless steel 1.4408 Casing cover (161) Stainless steel 1.4408 Shaft (210) Tempered steel C45+N Impeller (230) Stainless steel 1.4408	
		Operating data Pumped medium Beer wort without further specification Materials are not affected by chemical and mech. substances Actual flow rate 199.97 m³/h Actual developed head 42.49 m Efficiency 79.5 % Pump speed of rotation 2955 rpm	
		Driver, accessories Driver type Electric motor Frequency 50 Hz	



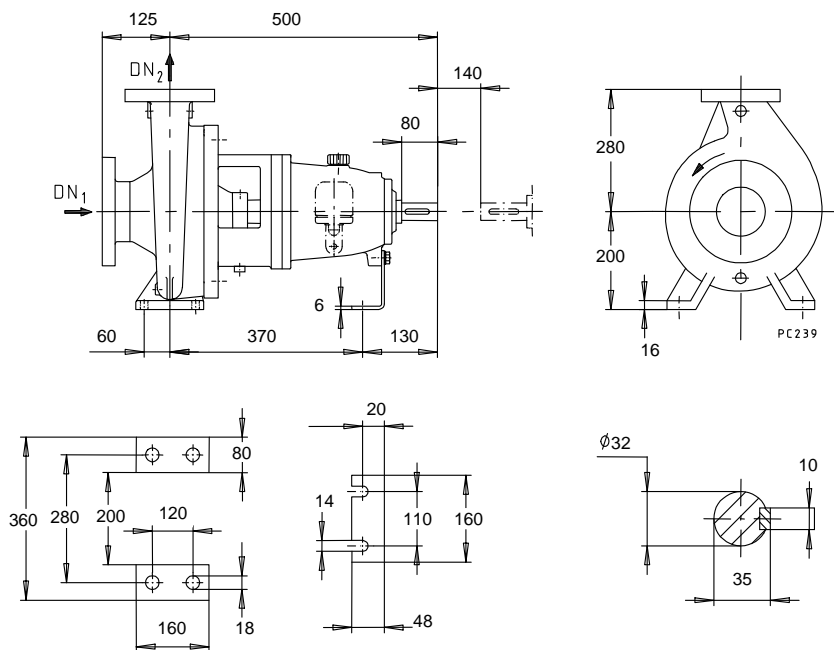
EBS CPKN-C1 100-200 (ohne Gehäuse!)
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Curve data

Speed of rotation	2955 rpm	Efficiency	79.5 %
Fluid density	1118 kg/m^3	Power absorbed	32.54 kW
Viscosity	1.00 mm^2/s	NPSH required	6.06 m
Flow rate	199.97 m^3/h	Curve number	K2721.452/382
Total developed head	42.49 m	Impeller diameter	188.0 mm

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Drawing is not to scale

Motor

Not in scope of supply
 Motor manufacturer KSB
 Motor size 200L
 Motor power 37.00 kW
 Speed of rotation 2955 rpm
 Position of terminal box

Connections

DN1 DN 125
 DN2 DN 100/EN 1092-1
 Pressure rating PN 16

Weight net

Pump 100 kg
 Total 100 kg

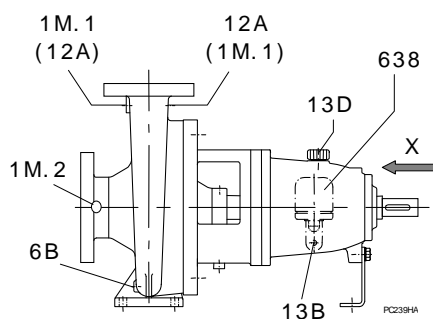
Connect pipes without stress or strain!

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

12A Circulation out	G 1/4	Drilled and plugged.
13B Oil drain	G 1/4	Drilled and plugged.
638 Constant level oiler	Rp 1/4	Supplied unassembled with main equipment, to be installed by customer in acc. with operating instructions
13D Refill / venting	Dia. 20	Closed with venting plug
1M1 Pressure gauge connection		Not executed
1M2 Pressure gauge connection		Not executed
6B Pumped liquid drain	G 3/8	Drilled and plugged.