Technical Datasheet

Etanorm FXA 200-150-315
ETNF200-150-315-GBAL11A GSHXX0AHB

Operating point 1 Dimensioning operating point

Operating conditions (purchaser requirements)

Target flow rate	
Target head	
Fluid	Water, fire-fighting water
Fluid variant	without further specification 50204
Specified fluid temperature	20 °C
Density Fluid handled	998 kg/m³
Kinematic viscosity Fluid handled	1 mm²/s
Vapour pressure determined	0.02337 bar.a
Minimum inlet pressure required	0 bar.r
Specified ambient temperature	20 °C
Installation altitude above sea level	1,000 m

Operating conditions (performance)

Flow rate	670.08 m³/h
Minimum permissible flow rate	93.09 m³/h
Maximum permissible flow rate	999.12 m³/h
Head	60.01 m
Pressure determined at duty point	5.87367 bar.r
Shut-off head	78.41 m
Efficiency Pump	86.99 %
NPSH required	5.72 m
Maximum power input at duty point	125.69 kW
Maximum power input / curve	139.9 kW
Pump speed	2,200 1/min
Shut-off pressure	7.67394 bar.r

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Design data pump

Scope of supply Pump supplied by KSB	Bare-shaft pump	Minimum permissible fluid temperature	4 °C
Pump standard	EN 733	Maximum permissible fluid temperature	40 °C
Design according to regulation	Sprinkler acc to APSAD R1	Quantity Stages, single-entry	1
Shaft axis position	Horizontal	Casing wear ring design suction-side	Casing wear ring flat
Pump design	Long-coupled (baseplate-mounted)	Casing wear ring design discharge-side	Casing wear ring flat
Pump system design	Single-pump system	Installation chamber Casing cover	Cylindrical (C-type cover)
Pump direction of rotation, viewed from casing side	Counterclockwise	Bearing bracket size / shaft unit	55
Hydraulic impeller diameter	315.2 mm	Bearing bracket design	Medium
Impeller type	Radial, closed, multi-channel	Lubrication type	Grease lubrication
Free passage	26.9 mm	Bearing seal Pump	V-ring
Nut lock for Impeller	Yes	Pump directive	CE

Nozzle connections pump

Nominal diameter Suction nozzle	DN 200	Nominal diameter Discharge nozzle	DN 150
Nominal pressure Suction nozzle	PN 10	Nominal pressure Discharge nozzle	PN 16
Suction nozzle position	Axial	Discharge nozzle position	0 deg
Suction nozzle design acc.to	EN1092-2	Discharge nozzle design acc.to	EN1092-2
Suction flange bolt hole pattern as per standard	EN1092-2	Discharge flange bolt hole pattern as per standard	EN1092-2
Flange facing type Inlet	Raised face (B,RF)		
Flange facing type Outlet	Raised face (B,RF)		

Auxiliary connections pump

6B Fluid Drain	G 1/2 Drilled and plugged	Connection size 13H Oil Monitoring/check, motor-end	Without Without
6D Fluid Filling and venting	G 1/2 Drilled and plugged	Connection size 13H Oil Monitoring/check, pump-end	Without Without
8B Leakage Drain	G 1/2 Drilled		

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Shaft sealing

Shaft seal type	Gland packing, internal barrier fluid (Na) - P1	Shaft seal code	Code 1A
		Shaft seal manufacturer inboard	KSB's choice
Determined pressure Seal chamber	0.45 bar.r		
		Material Shaft seal inboard	RT-P

Materials

Material Volute casing	EN-GJL-250/A48 CL 35B	Material Bolts/Screws Volute casing	8.8
Material Casing cover	EN-GJL-250/A48 CL 35B		
Material Shaft	1.4057+QT800	Material Nut Impeller fastening	(CRNIMO ST INT)
Material Impeller	CC480K DW		
Material Casing wear ring suction-side	JL/LAMELLAR GRAPHITE CAST IRON		
Material Casing wear ring discharge-side	JL/LAMELLAR GRAPHITE CAST IRON		
Material Shaft protecting sleeve	1.4122+QT750		
Material Bearing bracket	EN-GJL-250/A48 CL 35B		
Material Static seal Discharge cover	DPAF DW001		

Driver

Electric motor, asynchronous	No
Drive concept	Combustion engine

Coating

	Aggregate
Primary coating code	A1 to AN1897
Surface preparation	Free from dirt, grease, rust
Properties Primer coat	Hydro dip primer, water-dilutable
Thickness Primer coat	60 µm
Properties Top coat	Acrylate dispersion water-thinned
Thickness Top coat	40 µm
Colour Top coat	RAL3000 Flame Red

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Energy cost and Environmental Impact

Result

Estimated Product Carbon Footprint (cradle-to-gate) (CO2eq) 717 kg
*

* based on product weight and assuming typical material proportions. The conversion rate between product weight and CO2 emissions is based onseve ral life cycle analyses in acc. with ISO 14040 / 44 of sampleproducts fr om the same series. The objective and scope of these LCAs waslimited to the manufacturing phase (cradle-to-gate). With regard toinputs, all mate rials, energy and auxiliary materials were taken intoaccount; with regar d to outputs, emissions, scrap and waste wereconsidered. The influence o f outgoing logistics is not covered. Theinput variables of the analyses cover at least 95% of the total weight.The analysis focuses on the globa l warming potential (EF3.0 ClimateChange – total).

Packaging

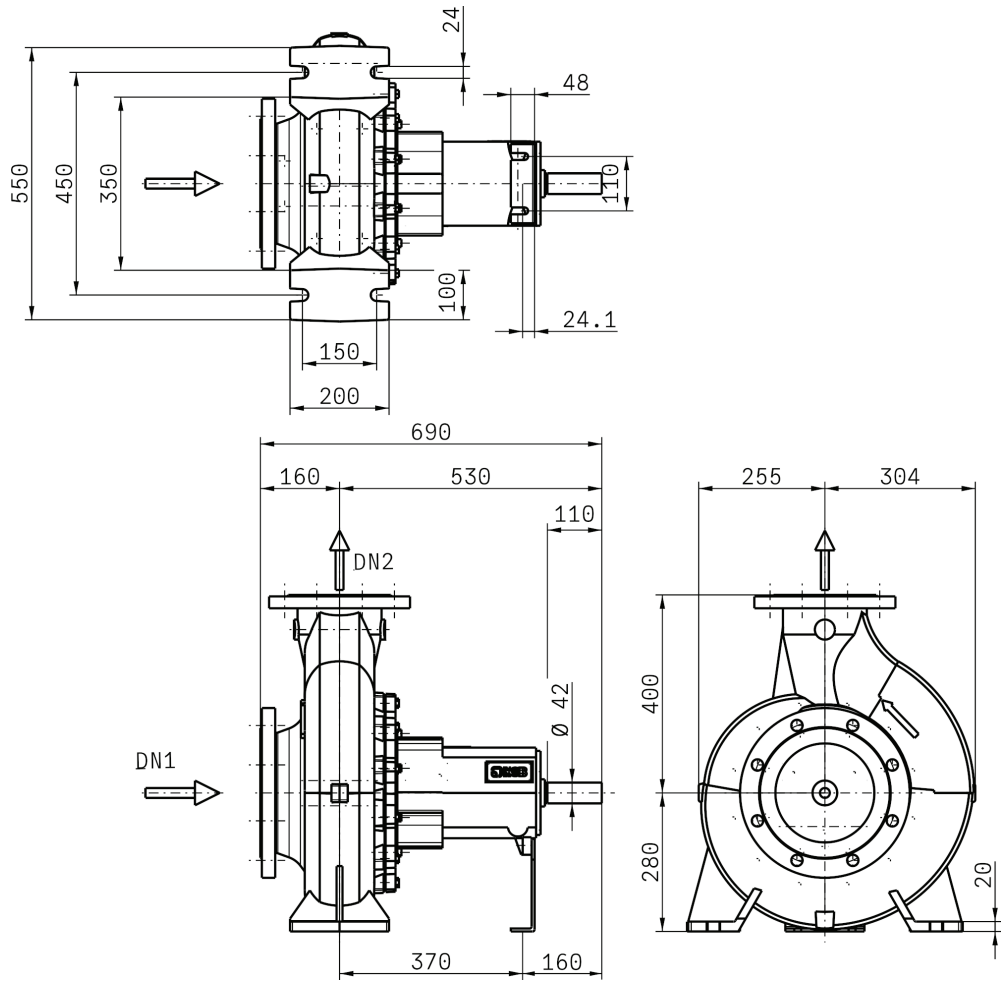
Suitable for transport	Truck transport
Suitable for storage	Indoor storage
Packaging category	KSB's choice (A0)

Product properties

Specification of wetted parts	Manufactured without paint wetting impairment substances

Installation plan

Etanorm FXA 200-150-315
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Drawing is not to scale.

Dimensions are given in mm

Connections

Nominal diameter Suction nozzle	DN 200
Suction flange bolt hole pattern as per standard	EN1092-2
Nominal diameter Discharge nozzle	DN 150
Discharge flange bolt hole pattern as per standard	EN1092-2
Nominal pressure Suction nozzle	PN 10
Nominal pressure Discharge nozzle	PN 16

Installation plan

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Net weight

Total weight Pump	188.6 kg

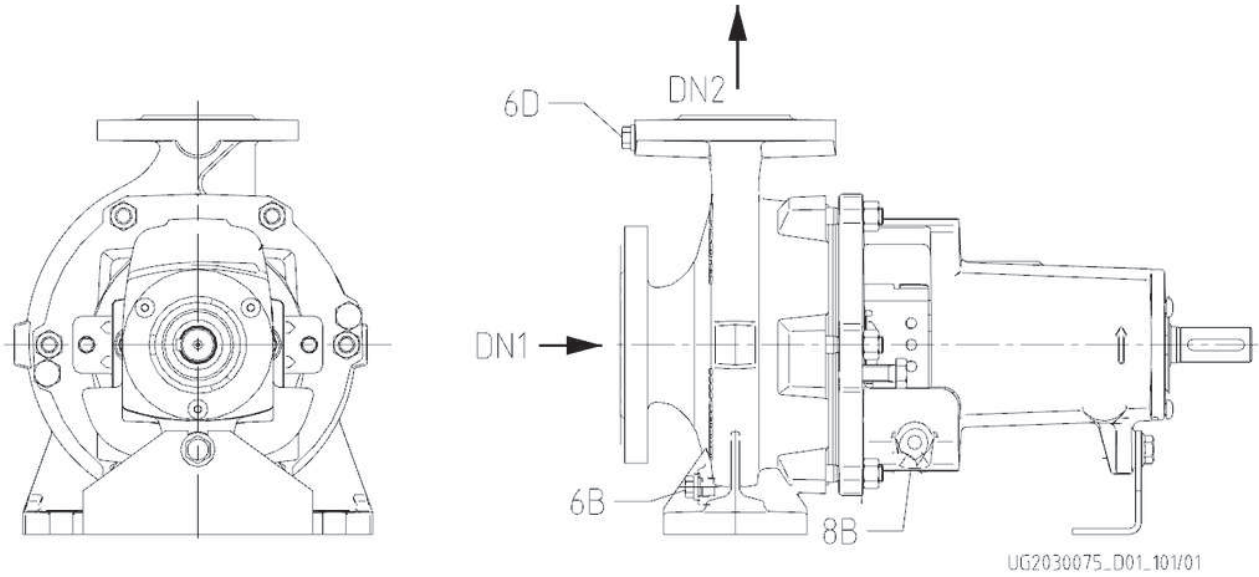
Connect pipelines stress-free

Plan for additional connections see extra drawing

Dimensional tolerances for shaft axis height: DIN 747
Dimensions without tolerances, middle tolerances to: ISO 2768-m
Connection dimensions for pumps: EN735
Dimensions without tolerances - welded parts: ISO 13920-B
Dimensions without tolerances - gray cast iron parts: ISO 8062-CT9

Auxiliary connections pump

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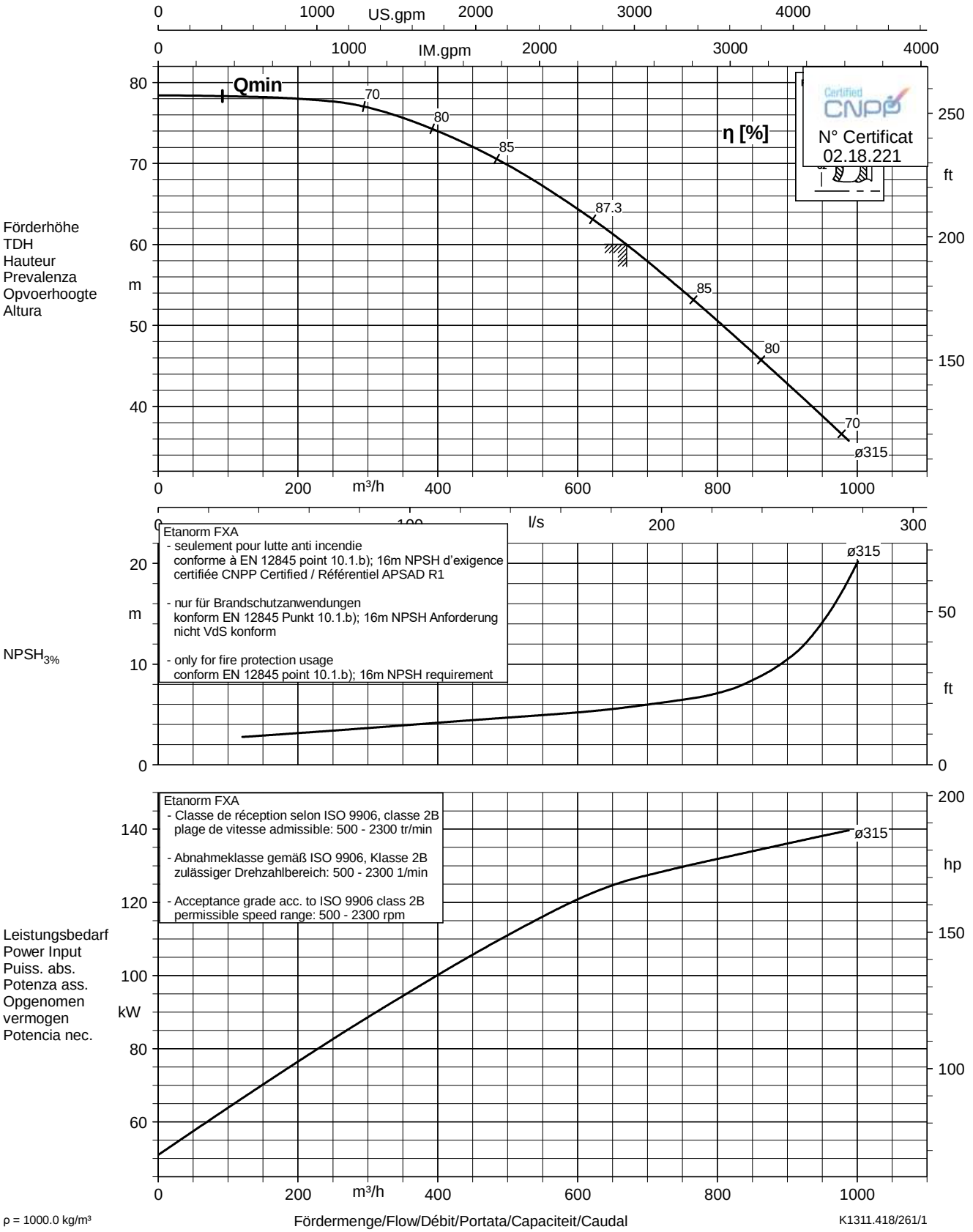


Connections

6B Fluid Drain	G 1/2	Drilled and plugged
6D Fluid Filling and venting	G 1/2	Drilled and plugged
8B Leakage Drain	G 1/2	Drilled

Baureihe-Größe / Type-Size / Modèle	Tipo / Serie / Tipo	Nenndrehzahl / Nom. speed / Vitesse nom.	Velocità di rotazione nom. / Nominaal toerental / Revolutiones nom.	Laufrad-Ø / Impeller Dia. / Diamètre de roue	Ø Girante / Ø Waaier / Ø Rodete
Etanorm FXA 200-150-315		2200 1/min		315.1 mm	
Projekt / Project / Projet	Progetto / Projekt / Proyecto	Angebots-Nr. / Project No. / No. de l'offre	Offerta-No. / Offertenr. / Offerta-No.	Pos.-Nr. / Item No. / No. de pos.	Pos.Nr. / Positienr. / Pos.-Nr.

KSB SE & Co. KGaA
Johann-Klein-Straße 9
67227 Frankenthal



ρ = 1000.0 kg/m³

Fördermenge/Flow/Débit/Portata/Capaciteit/Caudal

K1311.418/261/1

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xx
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