

DIN-FOOD

Hygienic DIN Centrifugal Pump



APPLICATIONS

The DIN-FOOD pump is a hygienic high capacity centrifugal pump (up to 1000 m³/h) designed to cater for an unfulfilled need in the food-processing and chemical and pharmaceutical industries.

Its applications include processes in the brewing, dairy and beverage industries in general, as well as in ultra-filtering processes. It can also be used in the textile industry and in some specific processes in the chemical, cosmetics and pharmaceutical industries.

OPERATING PRINCIPLES

Housed inside the casing, the impeller rotates in conjunction with the pump shaft. With this arrangement, the impeller blades convey energy to the fluid in the form of kinetic energy and pressure energy.

This pump is not reversible by a simple reversal of the direction of rotation. The direction of rotation is clockwise when the pump is viewed from the rear side of the motor.

DESIGN AND FEATURES

Casing with volute manufactured with 8 mm cold-formed plate.

Aseptic flanges according to DIN 11864-2.

Double curvature impeller with blades on the rear side to reduce the axial thrust.

Axial adjustment of the impeller (bare shaft version).

Hygienic mechanical seal.

Fully drainable pump.

Designed according to the EHEDG standards.

IEC B3 motors (B35 close-coupled constructions), IP 55, F-class insulation.

MATERIALS

Parts in contact with pumped media	1.4404 (AISI 316L)
Lantern and bearing support	CF8 / GG-22
Gaskets	EPDM
Mechanical seal	SiC/C/EPDM
Inside surface finish	Ra ≤ 0.8 µm
Outside surface finish	matt

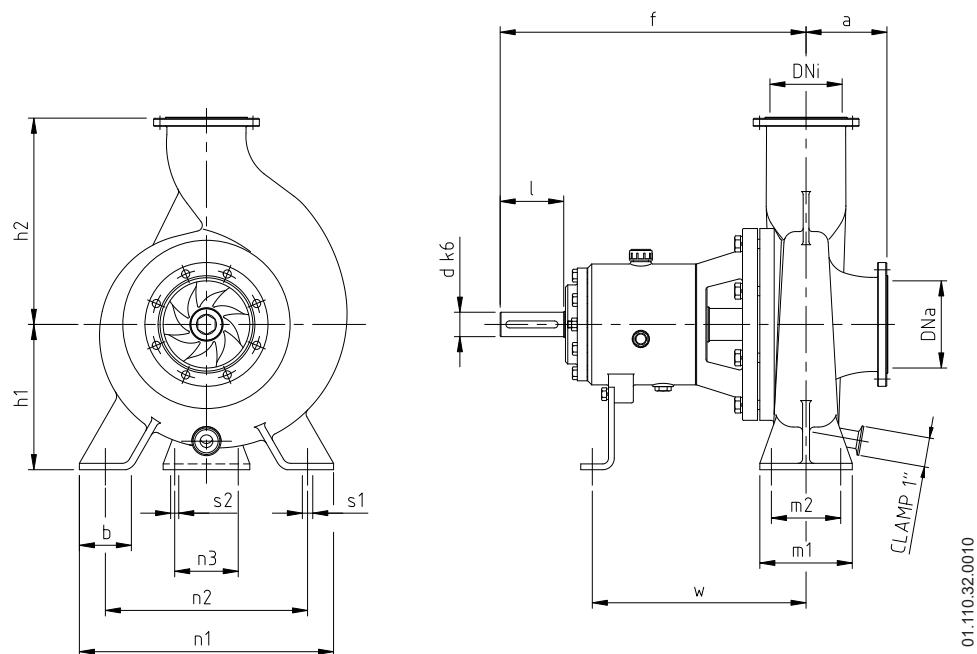
OPTIONS

Close-coupled construction for models 250.
 Mechanical seal in SiC/SiC for abrasive materials.
 Tandem type mechanical seal and pressurized double mechanical seal.
 Gaskets: FPM.
 Motor shroud.
 Motors with additional protection.
 Stainless steel base plate.
 ATEX version available.

TECHNICAL SPECIFICATIONS

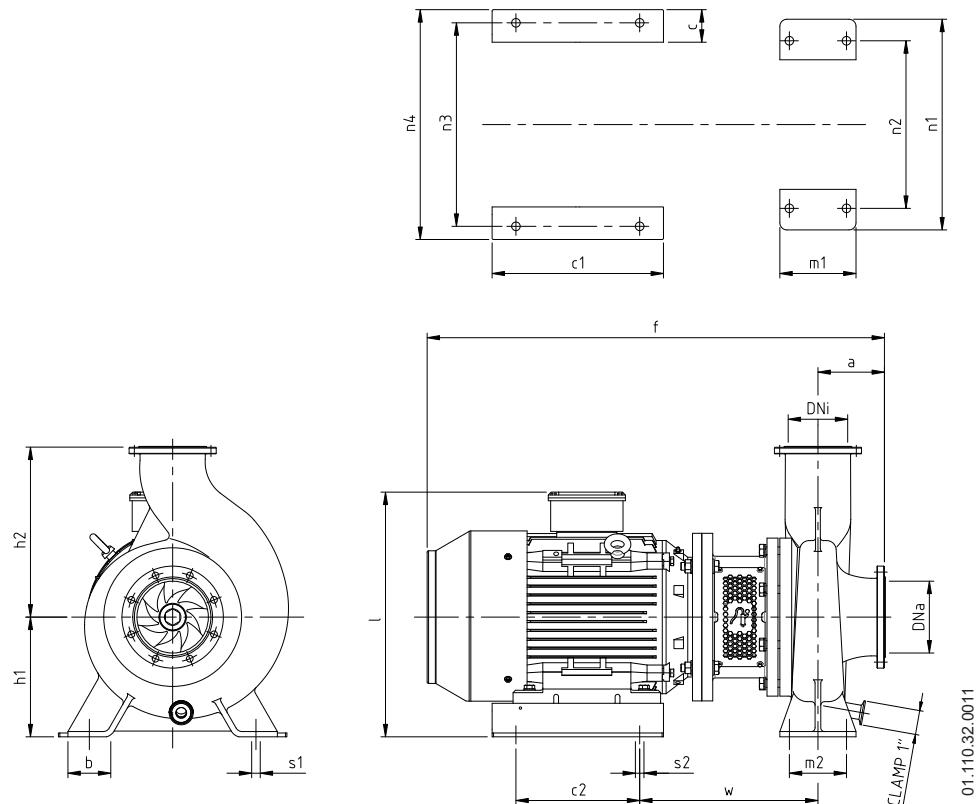
Max.flow	1000 m ³ /h	4403 US GPM
Max.differential head	90 mwc	295 ft
Max.operating pressure	10 bar	145 PSI
Max.working temperature	-10 °C to +120 °C (EPDM) +140 °C (SIP, max. 30 min)	14 °F to 248 °F 284 °F
Max.speed	1750 rpm 3500 rpm (model 125-100-250/2)	

GENERAL DIMENSIONS



Pump	DN _a	DN _i	d	l	a*	f	h ₁	h ₂ *	b	m ₁	m ₂	n ₁	n ₂	n ₃	s ₁	s ₂	w	
125-100-250					121	522	250	316	90	160	120	440	350		18		363	
125-100-315	125	100	42	110		510	280	352	90	160	120	490	400	110	18	14		
125-100-400					130		330	402	100	200	150	550	450		23		350	
150-125-250						128	530	250	355	90	160	120	440	350		18		370
150-125-315	150	125	42	110	137		280	372		200	150	490	400	110	23	14		
150-125-400					140		330	422	100			550	450				358	
200-150-250			42		142	537	250	375	90			440	350	110	14		378	
200-150-315	200	150		110	153	670	280	402	200	150		490	400	140	23	18	500	
200-150-400			48			667	330	452	100			550	450				498	

* tolerance ± 5 mm



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Pump	Motor	DNa	DNi	a^*	f	h_1	h_2^*	b	c	c_1	c_2	l	m_1	m_2	n_1	n_2	n_3	n_4	s_1	s_2	w
125-100-250	160	125	100	121	850							460									342
	180				930		316					475									367
150-125-250	160	150	125	128	865	250		90	68	360	260	460	160	120	440	350	415	470	18	18	349
	180				945		355														374
200-150-250	180	200	150	142	965	375		68	88	400	305	585	200	150	600	545	545	600	23	23	381
	200				1005	340															384

* tolerance ± 5 mm