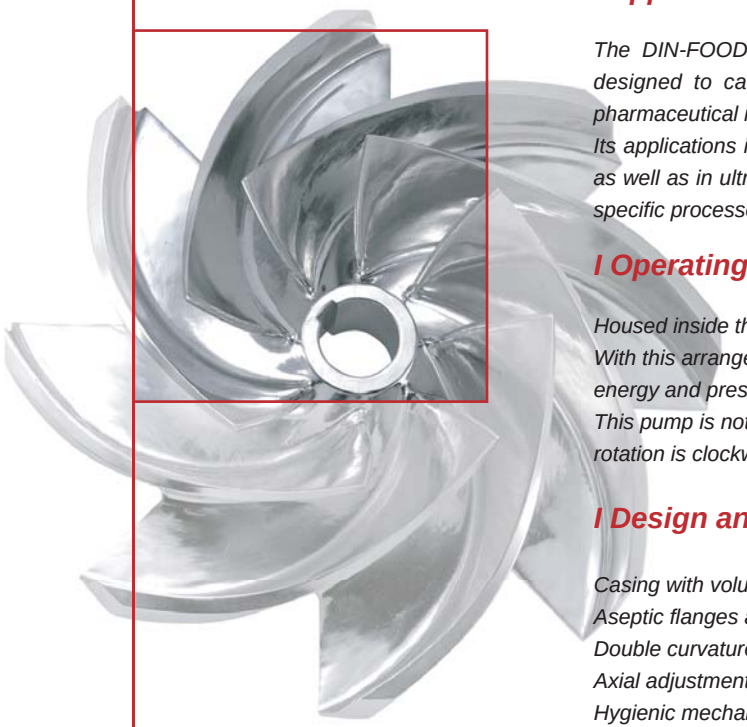
Hygienic DIN Centrifugal Pump

DIN-FOOD



I 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.

I 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.

I 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 3A and EHEDG standards.
IEC B3 motors (B35 close-coupled constructions), IP 55, F-class insulation.

Aseptic connections DIN 11864-2

Hygienic mechanical seal

I Materials

Parts in contact with pumped media	*AISI 316L*
Lantern and bearing support	*CF8 / GG-22*
Gaskets (standard)	*EPDM according to FDA 177.2600*
Mechanical seal (standard)	*SiC/C/EPDM*
Inside surface finish	*Ra ≤ 0.8*
Outside surface finish	*Satin finish*

I Options

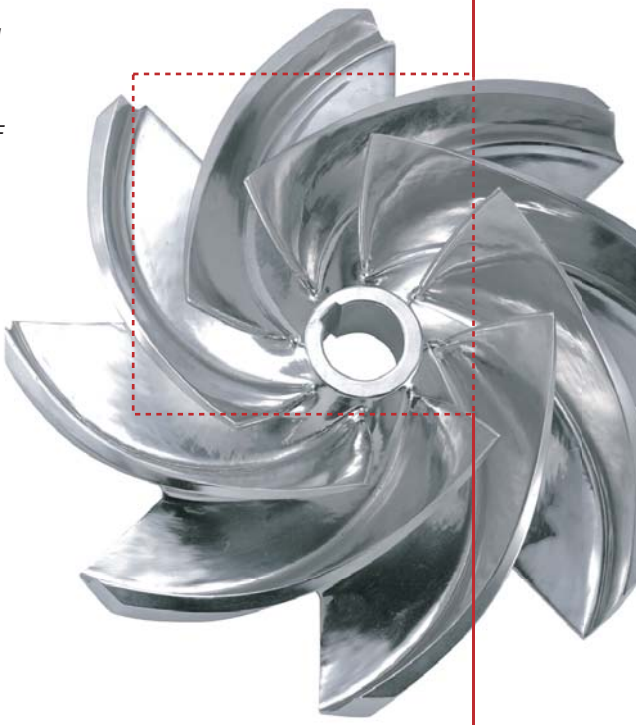
Close-coupled construction for models 250.
Mechanical seal in SiC/SiC for abrasive materials.
Tandem type mechanical seal and pressurized double mehcanical seal.
Gaskets: FPM (Viton®) and PTFE.
Industrial finish (DIN-TEX).
Motor shroud.
Motors with additional protection.
Stainless steel base plate.
ATEX version available.

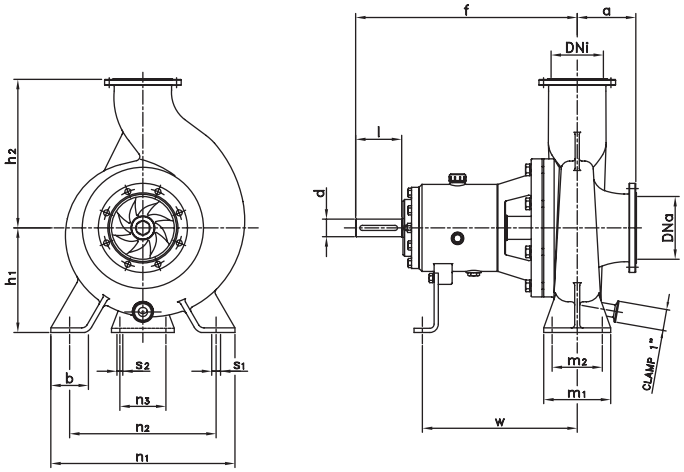
CERTIFIED EHEDG TYPE EL JUNE 2004

SOURCE OF SOLUTIONS

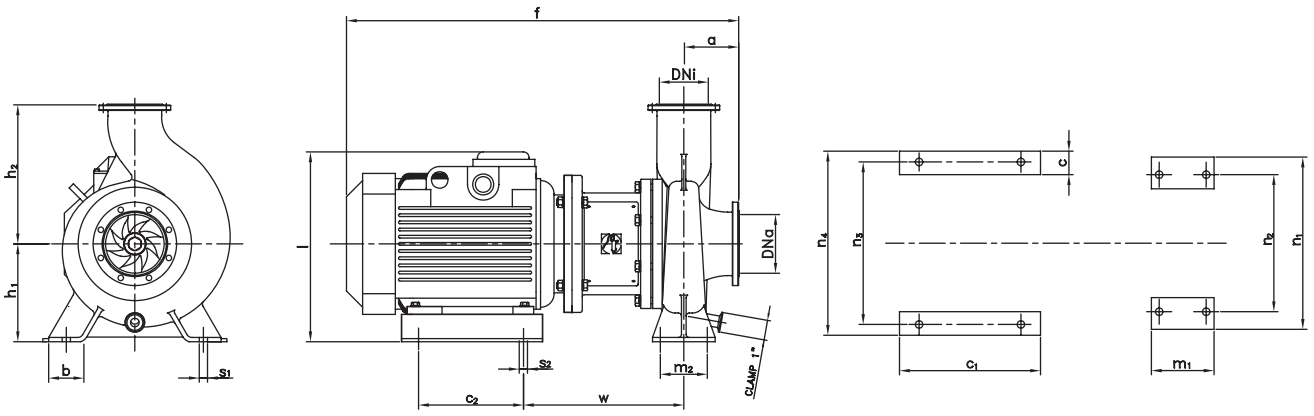
I Technical specifications

Max.flow	1000 m³/h	4403 US GPM
Max.differential height	90 mwc	295 ft
Max.operating pressure	16 bar	232 PSI
Max.working temperature	-10 ºC to +120 ºC (EPDM)	14 ºF to 248 ºF
	+140 ºC (SIP, max. 30 min)	284 ºF
Max.speed	1800 rpm	
	3600 rpm (model 125-100-250/2)	





PUMP TYPE	DNa	DNi	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	125	100	42	110	121	522	250	316	90	160	120	440	350	110	18	14	363
125-100-315						510	280	352				490	400				350
125-100-400					130		330	402	100	200	150	550	450		23		
150-125-250	150	125	42	110	128	530	250	355	90	160	120	440	350	110	18	14	370
150-125-315					137	518	280	372		200	150	490	400		23		358
150-125-400					140		330	422	100			550	450				
200-150-250	200	150	42	110	142	537	250	375	90	200	150	440	350	110	23	14	378
200-150-315			48		153	670	280	402				490	400	140		18	500
200-150-400						667	330	452	100			550	450				498



PUMP TYPE	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	250	316	90	68	360	260	460	160	120	440	350	415	470	18	18	342
	180				930							475									367
150-125-250	160	150	125	128	865		355					460									349
	180				945							475									374
200-150-250	180	200	150	142	965		375						200	150					23		381
	200				1005	340		68	88	400	305	585	210		600	545	545	600		23	384