

I Application

The DCH is a twin screw pump, with hygienic design, suitable for use in the food, dairy, beverage and cosmetic industries.

The flow is uniform and in an axial direction, so there are no changes of volume or physical properties of the product. Therefore, it is an ideal pump for handling shear-sensitive fluids.

It has a high suction lift capability with very low NPSH values.

It is capable of pumping liquids with high viscosity, but also with low viscosity, so it can be used as a CIP-supply pump.

The design ensures a fully cleanability and drainability.

I Design and features

The DCH pumps are available in two versions: close coupled and bare shaft construction. Having a three part design (suction casing, discharge casing and separate flange) to dismantle the pieces more easily, and designed according to the EHEDG recommendations. The mechanical seals have a hygienic design and when required, other materials can be used.

I Technical specifications

Materials:

Parts in contact with the product	AISI 316L
Bearing support	AISI 316
Gear Housing	Aluminium
Gaskets in contact with the product	EPDM

Mechanical seal:

Rotary part	Silicon carbide (SiC)
Stationary part	Silicon carbide (SiC)
Gasket	EPDM

Surface finish:

Internal	Ra<0,8 µm
External	Matt

Connections	DIN 11851
-------------	-----------

Operating limits:

Maximum flow	87 m ³ /h	383 US GPM
Maximum differential pressure	18 bar	261 PSI
Maximum working pressure	20 bar	290 PSI
Temperature range	-20 °C to +120 °C	-4 °F to 248 °F
Temperature SIP, max. 30 min	+140 °C	284 °F
Maximum speed	3000 rpm	3000 rpm



I Technical specifications

	Max. flow	Max. diff. pressure	Max. speed	Max. solid size
	m ³ /h	bar	rpm	mm
DCH 1A1	9	16	3000	7
DCH 1A2	13,5	16	3000	10
DCH 2A1	15,5	16	2800	9
DCH 2A2	23,5	16	2800	14
DCH 3A1	23,5	18	2400	10
DCH 3A2	35	18	2400	17
DCH 4A1	57	18	2400	14
DCH 4A2	87	18	2400	24

I Motor

Triphasic induction motor with B5 flange and B3 legs, in compliance with the IEC standards,
Efficiency class according to EC regulation, IP 55 protection and F-class insulation.

3 phases, 50 Hz, 230 V Δ / 400 V Y, ≤ 4 kW

3 phases, 50 Hz, 400 V Δ / 690 V Y, ≥ 5,5 kW

I Options

Mechanical seals: TuC/TuC .

Knife-edge single mechanical seals.

Double mechanical seals.

Gaskets: FPM, HNBR, FFKM.

Heating chamber.

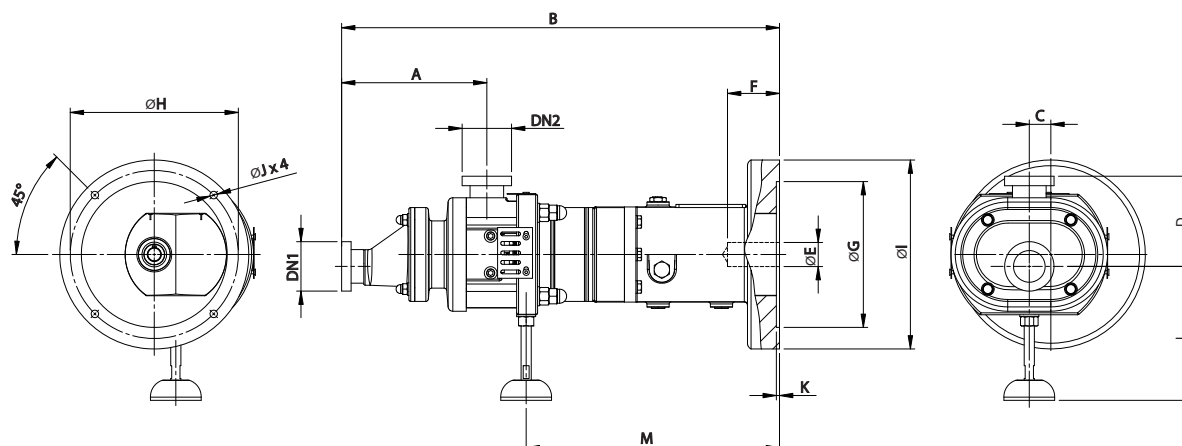
Bareshaft version.

Different types of connections.

ATEX certification.



I Dimensions



Type	Motor IEC	DN1	DN2	A	B	C	D	E	F	G	H	I	J	K	L	M	kg
DCH 1A1	90				619			24	52	130	165	248	M10			366	46
	100/112	40	40	184	619	28	122	28	62	180	215	248	15	5	210-230	366	46
DCH 1A2	132				651			38	82	230	265	298	16			398	51
DCH 2A1	100/112				668			28	62	180	215	260	M14			376	89
	132	50	50	228	690	34	143	38	82	230	265	298	M14	5	237-247	338	93
DCH 2A2	160				720			42	112	250	300	348	M16			428	97
DCH 3A1	132				864			38	82	230	265	348	M14	5		504	147
	160	65	65	273		45	170	42	112			348	M16		255-275		151
DCH 3A2					882					250	300			6		522	
	180							48	112			348	M16				151

