

IC 012 Centrifugal Pump

Applications

The IC 012 pump is an efficient and economical centrifugal pump, which meets the requirements of the pharmaceutical industries. It provides gentle product treatment and is chemically resistant. IC 012 is available in four sizes.

Standard design

As standard the IC 012 is delivered with a 45° outlet to ensure adequate venting. The IC 012 pump is designed for CIP and SIP with emphasis on large internal radii and cleanable seals. IC 012 is supported on four adjustable legs.

Shaft seals

The IC 012 pump is equipped with either an external single or a flushed shaft seal. Both have stationary seal rings in acid-resistant steel AISI 329 with sealing surface in silicon carbide and rotating seal rings in silicon carbide. The secondary seal of the flushed seal is a long lasting lip seal.

INOXCN



TECHNICAL DATA

Materials

Product wetted steel parts: . . . W. 1.4404 (316L) with material traceability 3.1 acc. to EN10204.

Other steel parts:..... Stainless steel.

Product wetted seals:..... EPDM- USP Class VI, 121°C Chapter 88, and Chapter 87.

Finish:..... Mech Ra ≤ 0.5.

Connections for FSS:

6mm tube/Rp 1/8".

Motor

Foot-flanged motor according to the IEC metric standard, 2 poles = 3000/3600 rpm at 50/60 Hz, IP 55 (with drain hole sealed with labyrinth plug), insulation class F.

Warranty

Extended 3-years warranty on the IC 012 Centrifugal Pump range. The warranty covers all non wear parts on the condition that genuine INOXCN Spare Parts are used.

OPERATING DATA

Pressure

Max. inlet pressure:..... 400 kPa (4 bar).

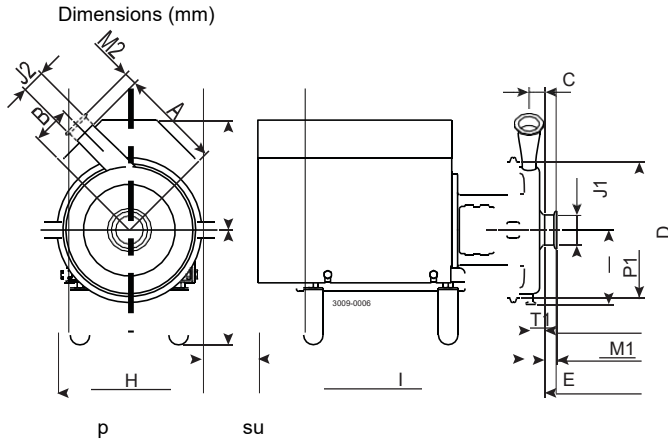
Temperature

Temperature range:..... -10°C to +120°C (EPDM).

Flushed shaft seal (FSS):

Water pressure inlet:..... max. 100 kpa (1 bar).

Water consumption: 0.25 -0.5 l/min.



Pump specific measures

Pump Model	IC 012-1	IC 012-2	IC 012-3	IC 012-4
A	180	200	210	230
B	67	94	121	120
C	28	35	31	27
D	230	227	311	333
E	40	47	44	44
P1	130	150	164	175
T1	21	27	23	21

Motor specific measures

Motor IEC	IEC90	IEC100	IEC112	IEC132	IEC160
Motor kW	1.5/2.2	3.0	4.0	5.5/7.5	11/15/18.5/22
F(max)*	246	256	259	279	307
G	126	137	136	164	208
H	227	278	277	327	377
I	405	469	468	543	651

*Possible to reduce dimension F by min. 15 mm for all pump models. For smaller models it will be possible to reduce dimension F even further.

Motor overview

Pump Model	IC 012-1	IC 012-2	IC 012-3	IC 012-4
Motor range (IEC)	IEC90-IEC112	IEC100-IEC160	IEC132-IEC160	IEC132-IEC160

Dimensional data are based on 2 pole, WEGmotors.

Connections

Pump Model		IC 012-1	IC 012-2	IC 012-3	IC 012-4
Clamp ISO 2037	M1	21	21	21	21
	M2	21	21	21	21
Clamp ASME BPE	M1	13	13	13	29
	M2	13	13	13	13
Clamp for ISO-1127	M1	36	36	48	48
	M2	36	36	36	36
Clamp DIN 32676	M1	21	64	64	64
	M2	21	21	21	21
J1*		51 / 2"	63.5 / 2.5"	76.1 / 3"	76.1 / 3"
J2*		38 / 1.5"	38 / 1.5"	38 / 1.5"	51 / 2"

* Other dimensions available on request.

	TC Clamp	ISO 2037 Clamp
1/2"	12.7	12.7
