

PROLAC HCPN

Centrifugal Pump



APPLICATION

Due to the choice of materials and its design, PROLAC HCPN is appropriate for applications requiring a high level of hygiene, it offers gentle handling of the product and resistance to chemical agents. It is particularly suitable as main process pump in the dairy, beverage, pharmaceutical and cosmetic industries.

DESIGN AND FEATURES

PROLAC HCPN is a range of close-coupled centrifugal pumps with hygienic design, compact and highly efficient. It is made of a cold-formed stainless steel casing, impeller, mechanical seal, pump cover, lantern and shaft, connected to the motor shaft by mechanical compression.

The pump is especially designed for CIP/SIP without disassembly according to the EHEDG recommendations.

The pump is authorized to carry 3-A symbol.

Note: Consult the options of the pumps authorized to carry 3-A symbol.

MECHANICAL SEAL

The PROLAC HCPN pump is provided with an internal single mechanical seal. The seal is balanced and has a hygienic design. As standard, the stationary part is in carbon and the rotary part is in silicon carbide, the gaskets are in EPDM. However, when required, other material can be used.

There is also an option of assembly of a double mechanical seal made of two identical seals. It helps to upgrade a pump with single seal to double seal and simplifies the management of necessary spare parts as the seal is the same.

TECHNICAL SPECIFICATIONS

Materials

Parts in contact with the product	1.4404 (AISI 316L)
Other steel parts	1.4301 (AISI 304)
Gaskets in contact with the product	EPDM



Mechanical seal

Rotary part	Silicon carbide (SiC)
Stationary part	Carbon (C)
Seals	EPDM

Surface finish

Internal	Bright polish Ra ≤ 0,8 µm
External	Matt

Connections

CLAMP-OD (ASME BPE / DIN 32676 serie C)

Operating limits

Nominal pressure	1600 kPa (16 bar)	232 PSI
Working temperature	-10°C a 120°C	14° a 248°F
Temperature, maximum time SIP cleaning	140°C during 30 min	284°F
Maximum flow	220 m³/h	968 US GPM
Maximum differential head	140 m	459 ft
Maximum speed	3600 rpm	

MOTOR

NEMA Premium Efficiency three-phase induction motor, C-face and foot mounted.

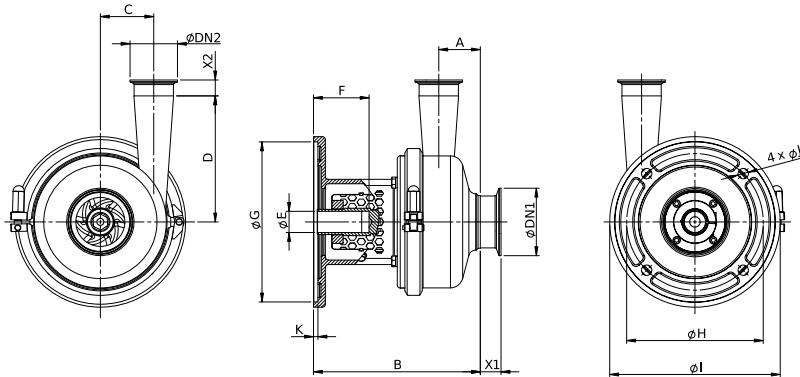
OPTIONS

- Pump casing with drain port.
- Pump casing with heating chamber.
- Different types of connections.
- Mechanical seal: SiC/SiC or TuC/SiC.
- Double mechanical seal.
- Gaskets: FPM or FFKM.
- Motor with other voltages, frequencies, mechanical protections, efficiencies.
- Height adjustable hygienic design legs.
- Trolley and/or control panel.

OPTIONS FOR THE 3-A SYMBOL

- Connections: CLAMP-DIN (DIN 32676 series A), DIN 11864.
- Sealing: single mechanical seal.
- Mechanical seal materials: C/SiC and SiC/SiC.
- O-rings: EPDM and FPM.
- Drain: vertical Clamp-OD.

DIMENSIONS



Pump	DN1	DN2	DIN 11864		CLAMP OD	
			X ₁	X ₂	X ₁	X ₂
HCP 40-110						
HCP 40-150	2"	1½"	0,91	0,91	0,89	0,87
HCP 40-205						
HCP 50-150						
HCP 50-190	2½"	2"	1,06	0,91	1,02	0,79
HCP 50-260						
HCP 65-175						
HCP 65-215	3"	2½"	1,06	1,06	0,98	0,98
HCP 65-250						
HCP 80-175						
HCP 80-205	4"	3"	1,18	1,06	1,18	1,57
HCP 80-240						

Dimensions in inches

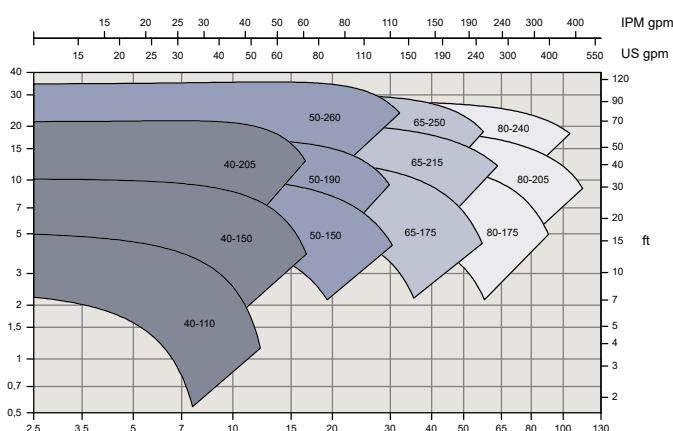
Pump	Motor	DN1	DN2	A	B	C	D	E	F	G	H	I	ØJ	K	kg		
HCPN 40-110	56C	2"	1½"	1,54	7,24	2,09	5,12	0,63	1,89	4,50	5,87	6,61	0,43	0,16	9		
	143/145TC							0,88	2,24						9		
HCPN 40-150	56C	2"	1½"	1,83	7,44	2,99	5,51	0,63	1,89	4,50	5,87	6,61	0,43	0,16	12		
	143/145TC							0,88	2,24						12		
	182/184TC							8,82		1,13	2,76	8,50	7,25	9,06	0,55	0,24	14
HCPN 40-205	182/184TC	2"	1½"	1,77	8,82	4,29	6,89	1,13	2,76	8,50	7,25	9,06	0,55	0,24	21		
	213/215TC							9,61		1,38	3,39				21		
	254/256TC								4,02	22							
HCPN 50-150	56C	2½"	2"	2,20	7,48	2,83	6,69	0,63	1,89	4,50	5,87	6,61	0,43	0,16	12		
	143/145TC							0,88	2,24						12		
	182/184TC							8,86		1,13	2,76	8,50	7,25	9,06	0,55	0,24	14
	213/215TC								3,39	14							
HCPN 50-190	182/184TC	2½"	2"	2,32	8,94	4,13	8,27	1,13	2,76	8,50	7,25	9,06	0,55	0,24	21		
	213/215TC							9,72		1,38	3,39				21		
	254/256TC								4,02	22							
HCPN 50-260	213/215TC	2½"	2"	2,83	10,4	5,83	9,84	1,38	3,39	8,50	7,25	9,06	0,55	0,24	36		
	254/256TC							11,1		1,63	4,02				37		
	284/286TSC							10,2		1,63	3,27	10,5	9,0	11,0	37		
	324/326TSC							10,4		1,88	3,74	12,5	11,0	13,9	41		
HCPN 65-175	213/215TC	3"	2½"	2,83	10,1	3,86	7,87	1,38	3,39	8,50	7,25	9,06	0,55	0,24	24		
	254/256TC							10,9		1,63	4,02				25		

Dimensions in inches

Pump	Motor	DN1	DN2	A	B	C	D	E	F	G	H	I	ØJ	K	kg
HCPN 65-215	213/215TC				10,3			1,38	3,39	8,50	7,25	9,06			29
	254/256TC	3"	2½"	3,03	11,1	4,72	9,45	1,63	4,02			9,84	0,55		30
	284/286TSC				10,1			1,63	3,27	10,5	9,0	11,0		0,24	30
	324/326TSC				10,3			1,88	3,74	12,5	11,0	13,9	0,71		34
HCPN 65-250	213/215TC				10,4			1,38	3,39	8,50	7,25	9,06			35
	254/256TC	3"	2½"	77,5	11,2	5,67	11,0	1,63	4,02			9,84	0,55		37
	284/286TSC				10,2			1,63	3,27	10,5	9,0	11,0			37
	324/326/364TSC				10,4			1,88	3,74	12,5	11,0	13,9	0,71		40
HCPN 80-175	213/215TC				10,3			1,38	3,39	8,50	7,25	9,06			24
	254/256TC	4"	3"	79	11,1	3,58	7,28	1,63	4,02			9,84	0,55	0,24	24
	284/286TSC				10,1			1,63	3,27	10,5	9,0	11,0			24
HCPN 80-205	213/215TC				10,5			1,38	3,39	8,50	7,25	9,06			29
	254/256TC	4"	3"	81	11,3	4,45	8,66	1,63	4,02			9,84	0,55		29
	284/286TSC				10,3			1,63	3,27	10,5	9,0	11,0			29
	324/326/364TSC				10,5			1,88	3,74	12,5	11,0	13,9	0,71		33
HCPN 80-240	213/25TC				10,8			1,38	3,39	8,50	7,25	9,06			36
	254/256TC				11,6			1,63	4,02			9,84	0,55		37
	284/286TSC	4"	3"	86	10,6	5,43	10,8	1,63	3,27	10,5	9,0	11,0		0,24	37
	324/326/364/365TSC							1,88	3,74			12,5	11,0	13,9	0,71
	405TSC							2,13	4,25						41

Dimensions in inches

1750 rpm



3500 rpm

