



**CPE SYSTEMS  
INCORPORATED**

**PUMPS**

-

**HOSES**

-

**HEAT EXCHANGERS**

-

**FLOW METERS**

-

**GASKETS**

-

**VALVES**

-

**FITTINGS**

-

**THERMOMETERS**

-

**PORTABLE SYSTEMS**

-

**AND MORE**

# HYGINOX SEN-20 CENTRIFUGAL PUMP (3-15 HP)

FOR CRAFT FOOD AND BEVERAGE INDUSTRIES

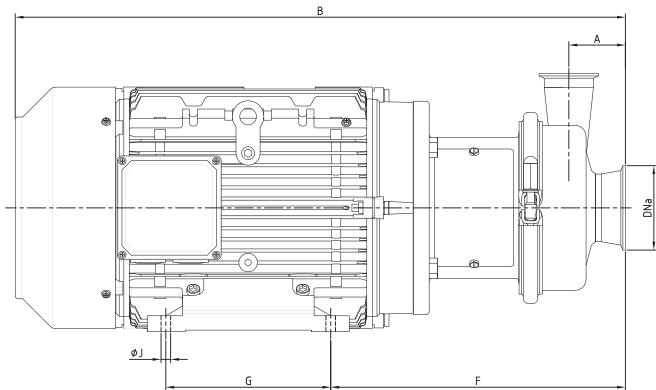


Hyginox SEN is INOXPA's line of internally sealed, close-coupled centrifugal pumps. These pumps are perfect for brewing and brewers, providing increased seal lifetime and decreased maintenance, while still offering the same performance and ease-of-use benefits you would expect from a centrifugal pump. It is designed specifically for the dairy, beverage, and food-processing industries, and is assembled according to NEMA standards.



## DESIGN

The design of the Hyginox SEN seal makes it both balanced and hygienic, with a stationary part made of carbon and a rotary part made of silicon carbide, with EPDM gaskets. The entire mechanical seal can also be provided in silicon carbide, and the gaskets FPM. Pump components in contact with food are polished AISI 316L stainless steel, and the unit is fully food safe.



Horsepower	Max Head	Max Flow
3	80 GPM	125 ft
5	98 GPM	150 ft
7 1/2	120 GPM	160 ft
10	145 GPM	185 ft
15	160 GPM	190 ft

## Technical Specifications

### Materials

Parts in contact with product:	Stainless steel AISI 316L
Other steel parts:	Stainless steel AISI 304
Gaskets in contact with product:	EPDM

### Mechanical seal

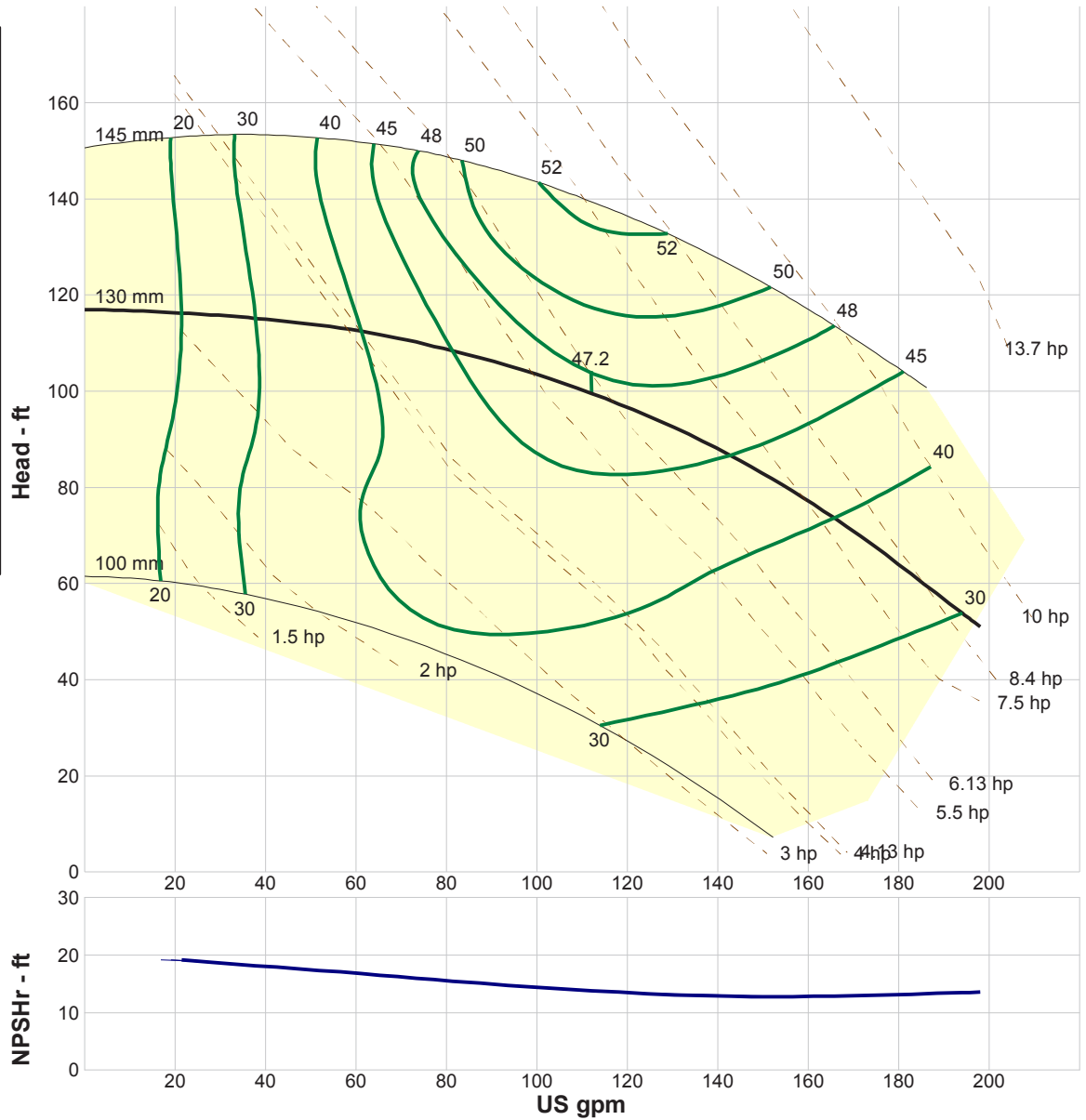
Rotary Seal:	Silicon carbide (SiC)
Stationary Seal:	Carbon (C) Gaskets EPDM
External surface finish:	Bright polish
Internal surface finish:	Ra<0,8 µm
Connections:	CLAMP 2" x 2"
Motor:	S.S Premium Efficiency Nema C Face

### Operating limits

Nominal pressure:	10 bar 145 PSI
Temperature range:	14 °F to 248 °F 284 °F (SIP, max. 30 min.)
Maximum flow:	100 m <sup>3</sup> /h 440 US GPM
Maximum differential head:	95 m 310 ft
Maximum speed:	3500 rpm



---- Data Point ----	
Flow:	174 US gpm
Head:	67.8 ft
Eff:	37%
Power:	8.02 hp
NPSHr:	13.1 ft
---- Design Curve ----	
Shutoff head:	117 ft
Shutoff dP:	50.6 psi
Min flow:	---
BEP:	47% @ 112 US gpm
NOL power:	8.8 hp @ 198 US gpm
-- Max Curve --	
Max power:	11 hp @ 186 US gpm



### Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
190	3600	56.6	31	8.64	13.4
158	3600	78	42	7.45	12.9
126	3600	93.7	46	6.41	13.4
94.8	3600	105	46	5.39	14.8
63.2	3600	112	41	4.4	16.6