



HYGINOX SEN-15 CENTRIFUGAL PUMP (1 - 2 HP)

FOR CRAFT FOOD AND BEVERAGE INDUSTRIES

PUMPS

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HOSES

-

HEAT EXCHANGERS

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FLOW METERS

-

GASKETS

-

VALVES

-

FITTINGS

-

THERMOMETERS

-

PORTABLE SYSTEMS

-

AND MORE



Hyginox SEN is our line of internally sealed, close-coupled centrifugal pumps. These pumps are perfect for brewing and brewers, providing increased seal life-time 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

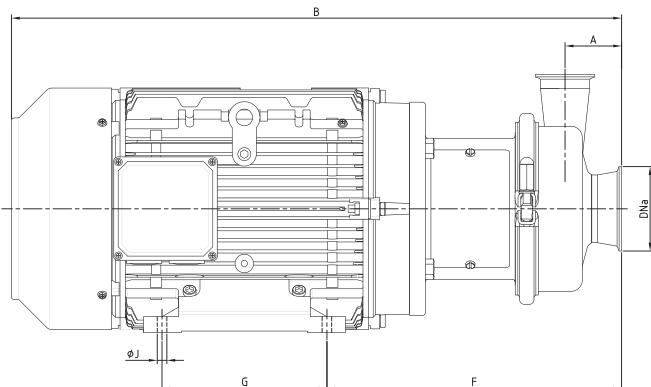
The design of the Hyginox SEN seal makes it both balanced and hygienic, with a stationary part made of carbon and a rotary part made of silicon carbide, with EPDM gaskets. The entire mechanical seal can also be provided in silicon carbide, and the gaskets FPM. Pump components in contact with food are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

FEATURES

- Mechanical seal: C/SiC or SiC/SiC.
- Gaskets: EPDM and FPM
- Stainless steel motor.
- Nema High Efficiency motors up to 2 HP.

Horsepower

Horsepower	Max Flow Rate	Max Head
1	50 GPM	45ft
1 1/2	60 GPM	60ft
2	70 GPM	70ft



Technical Specifications

Materials

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

Mechanical seal

Rotary Seal:	Silicon carbide (SiC)
Stationary Seal:	Carbon (C) EPDM
External surface finish:	Bright polish
Internal surface finish:	Ra<0,8 µm
Connections:	1 1/2" x 1 1/2" CLAMP

Motor:	S.S Premium Efficiency Nema C Face
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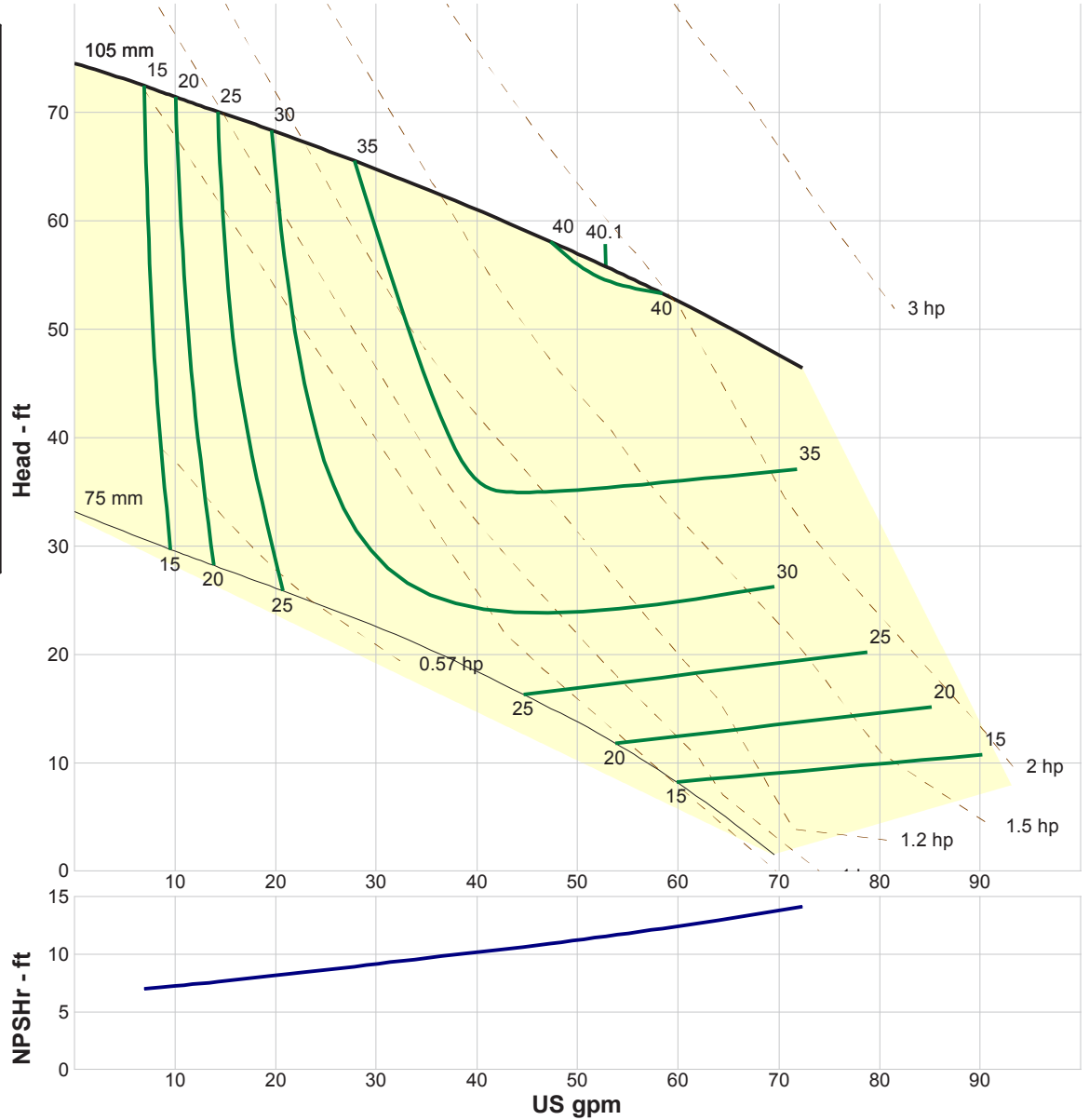
Operating limits

Nominal pressure:	10 bar 145 PSI
Temperature range:	14 °F to 248 °F 284 °F (SIP, max. 30 min.)

Maximum flow:	100 m ³ /h 70US GPM
Maximum differential head:	21 m 70 ft
Maximum speed:	3500 rpm



---- Data Point ----	
Flow:	69.7 US gpm
Head:	47.7 ft
Eff:	37%
Power:	2.25 hp
NPSHr:	13.8 ft
---- Design Curve ----	
Shutoff head:	74.5 ft
Shutoff dP:	32.3 psi
Min flow:	---
BEP:	40% @ 52.8 US gpm
NOL power:	2.31 hp @ 72.3 US gpm
-- Max Curve --	
Max power:	2.31 hp @ 72.3 US gpm



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
69.4	3600	47.8	37	2.24	13.7
57.8	3600	53.6	40	1.95	12.2
46.2	3600	58.5	40	1.71	10.8
34.7	3600	63	38	1.46	9.66
23.1	3600	67.1	32	1.21	8.48