

Cond. I, II & III are Process - IV is CIP @ 60 gpm

## STSC 70-40

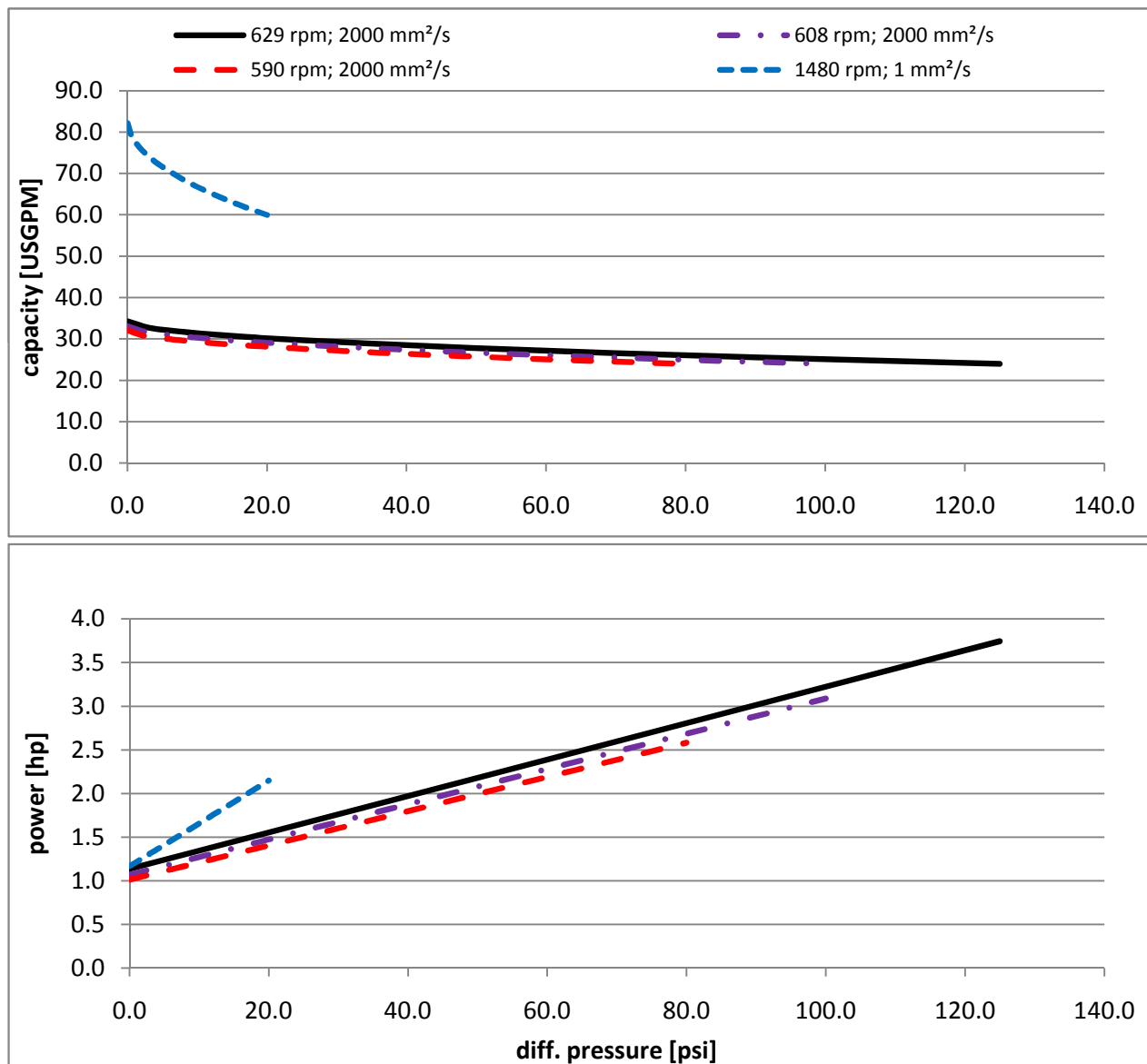
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LOCATION:  
ENQUIRY NO:  
PROJECT TITLE:  
MEDIUM:  
TAG NO(S).:  
QUOTATION/ORDER NO.:

	I	II	II	IV	V	VI
speed [rpm]	629	608	590	1480		
diff. pressure [psi]	125	100	80	20		
kinem. viscosity [mm <sup>2</sup> /s]	2000	2000	2000	1		
capacity [USGPM]	24.0	24.0	24.0	60.0		
power [hp]	3.7	3.1	2.6	2.2		
operating torque [lbf*ft]	31.3	26.7	23.0	7.6		
total efficiency [%]	46.7	45.2	43.3	32.5		
mech./hydr. efficiency [%]	69.7	65.4	60.7	45.7		
volumetric efficiency [%]	67.0	69.2	71.3	71.2		
NPSHr [ft]	5.58	5.55	5.52	5.91		
noise level [dB(A)]	66.4	66.0	65.7	69.8		
max. diff. pressure [psi]	174.0	174.0	174.0	174.0		
max. speed [rpm]	1171	1171	1171	3600		

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date: 11/3/2010  
Hyghspin\_2.0

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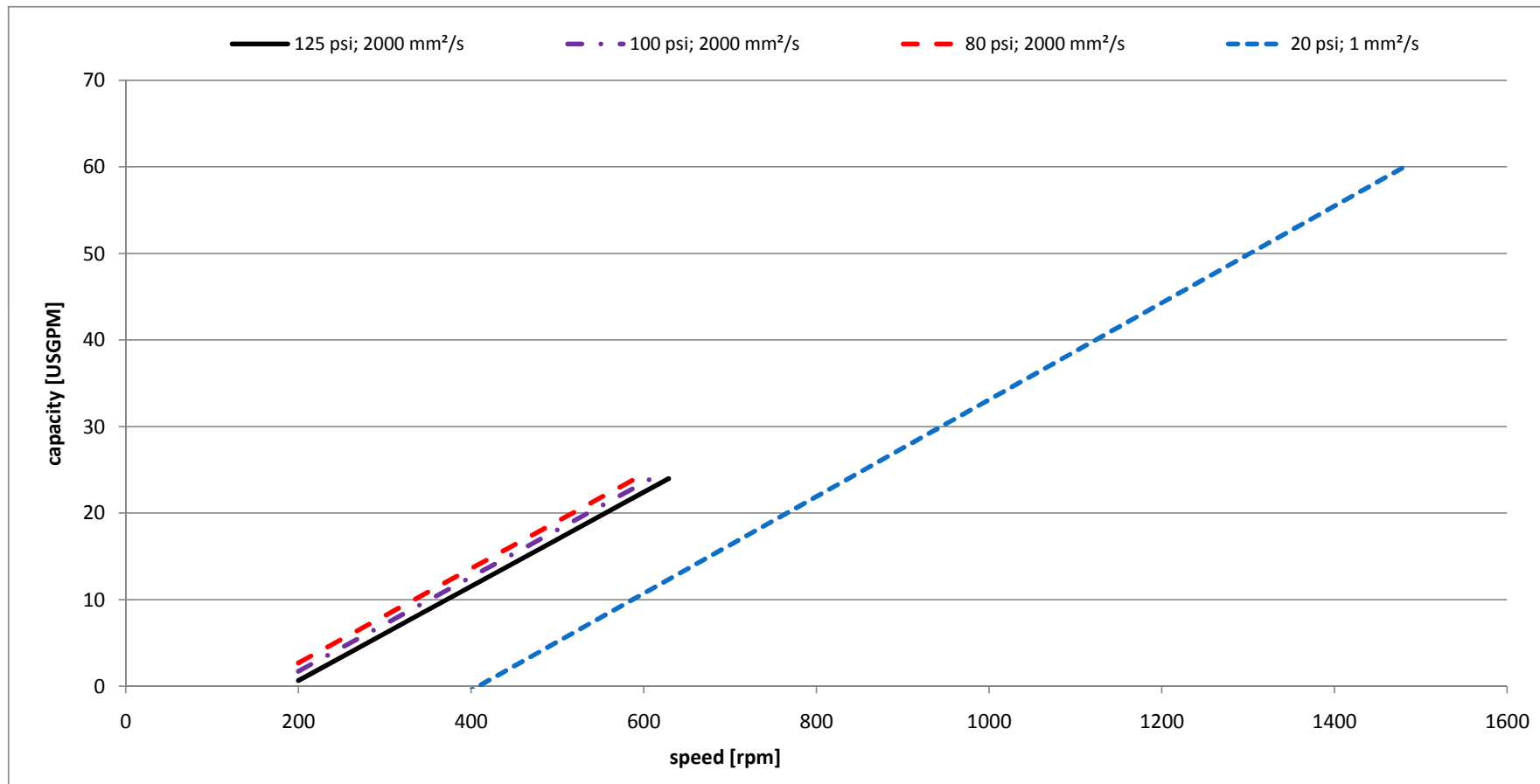
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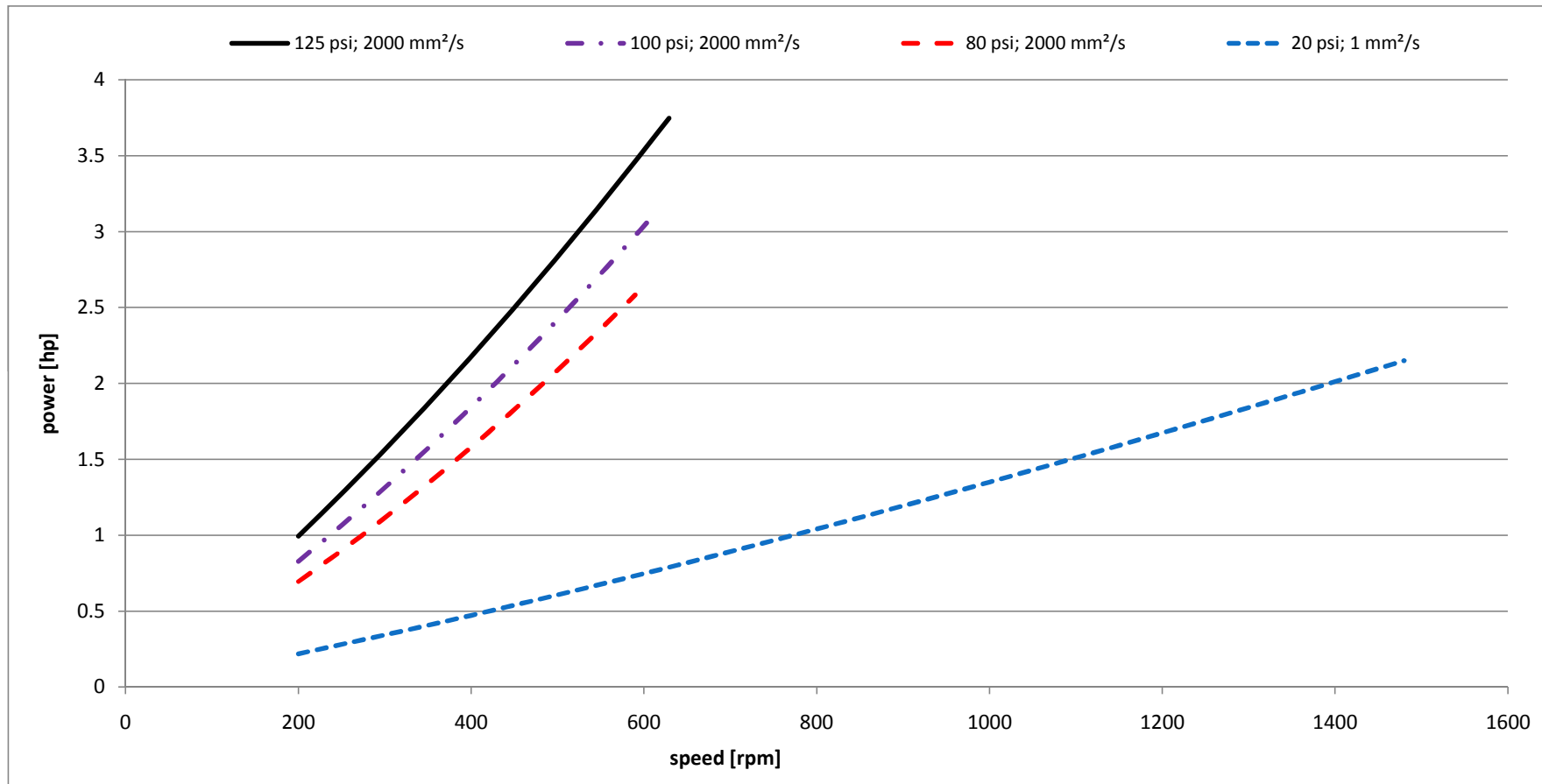
**AXIFLOW**   
**TECHNOLOGIES, INC.**

A Division of Process Integrated Technologies Inc.  
1955 Vaughn Road  
Kennesaw, GA 30144



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date: 11/3/2010

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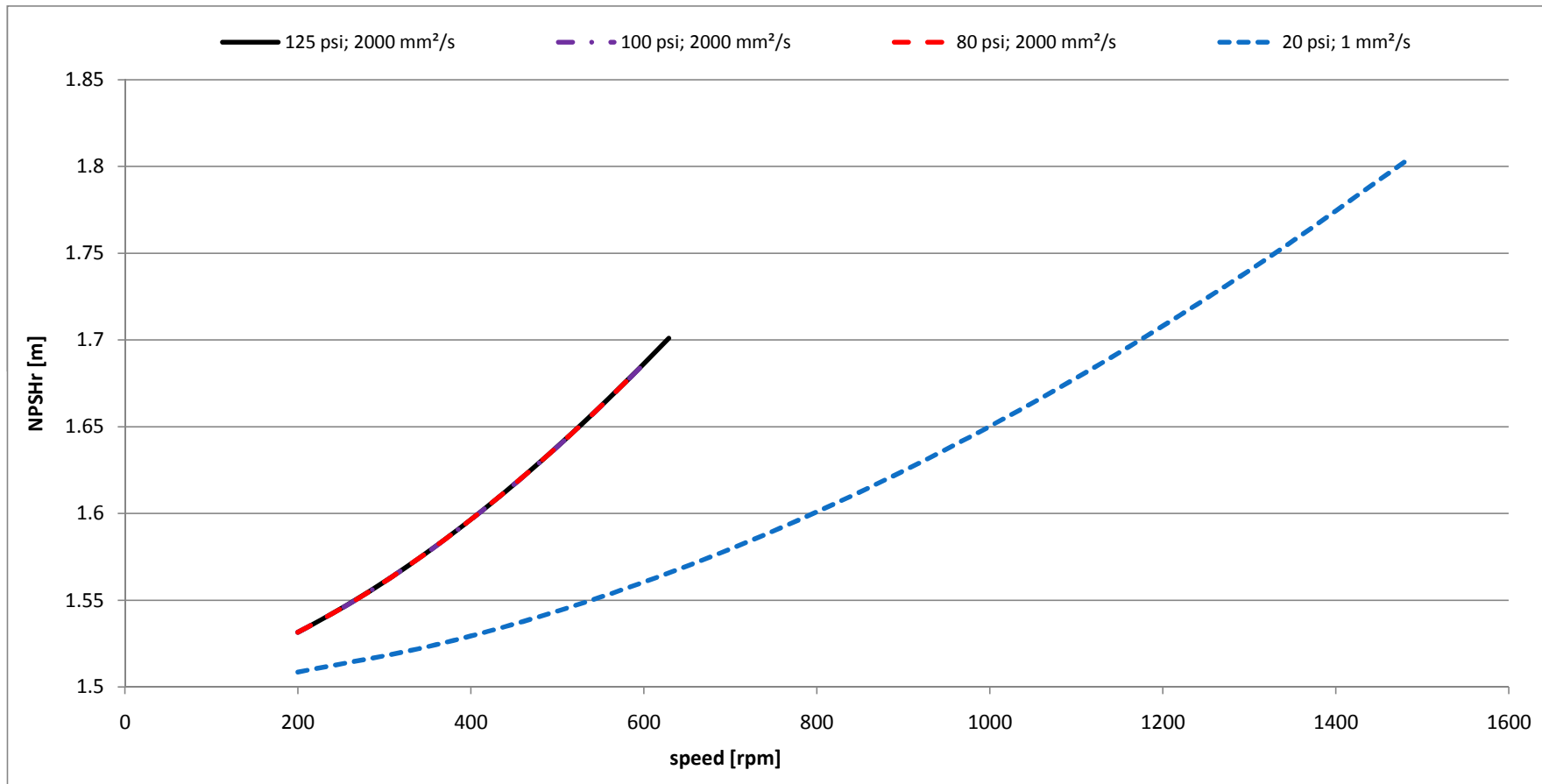


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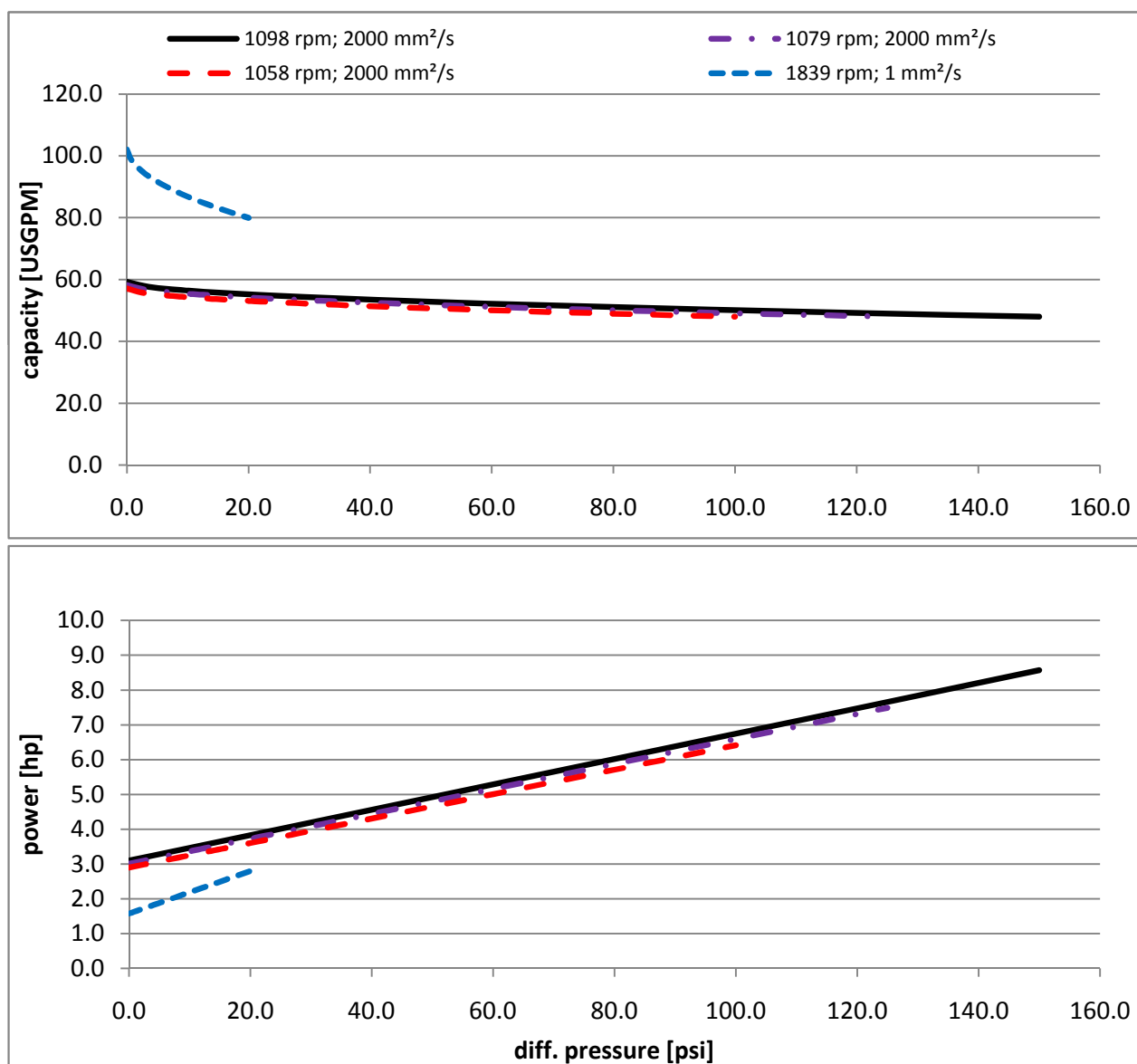
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	I	II	II	IV	V	VI
speed [rpm]	1098	1079	1058	1839		
diff. pressure [psi]	150	125	100	20		
kinem. viscosity [mm <sup>2</sup> /s]	2000	2000	2000	1		
capacity [USGPM]	48.0	48.0	48.0	80.0		
power [hp]	8.6	7.5	6.4	2.8		
operating torque [lbf*ft]	41.0	36.4	31.8	8.0		
total efficiency [%]	49.0	46.7	43.6	33.4		
mech./hydr. efficiency [%]	63.8	59.8	54.8	43.7		
volumetric efficiency [%]	76.8	78.1	79.6	76.4		
NPSHr [ft]	6.56	6.51	6.46	6.39		
noise level [dB(A)]	69.5	69.2	68.9	71.1		
max. diff. pressure [psi]	174.0	174.0	174.0	174.0		
max. speed [rpm]	1171	1171	1171	3600		

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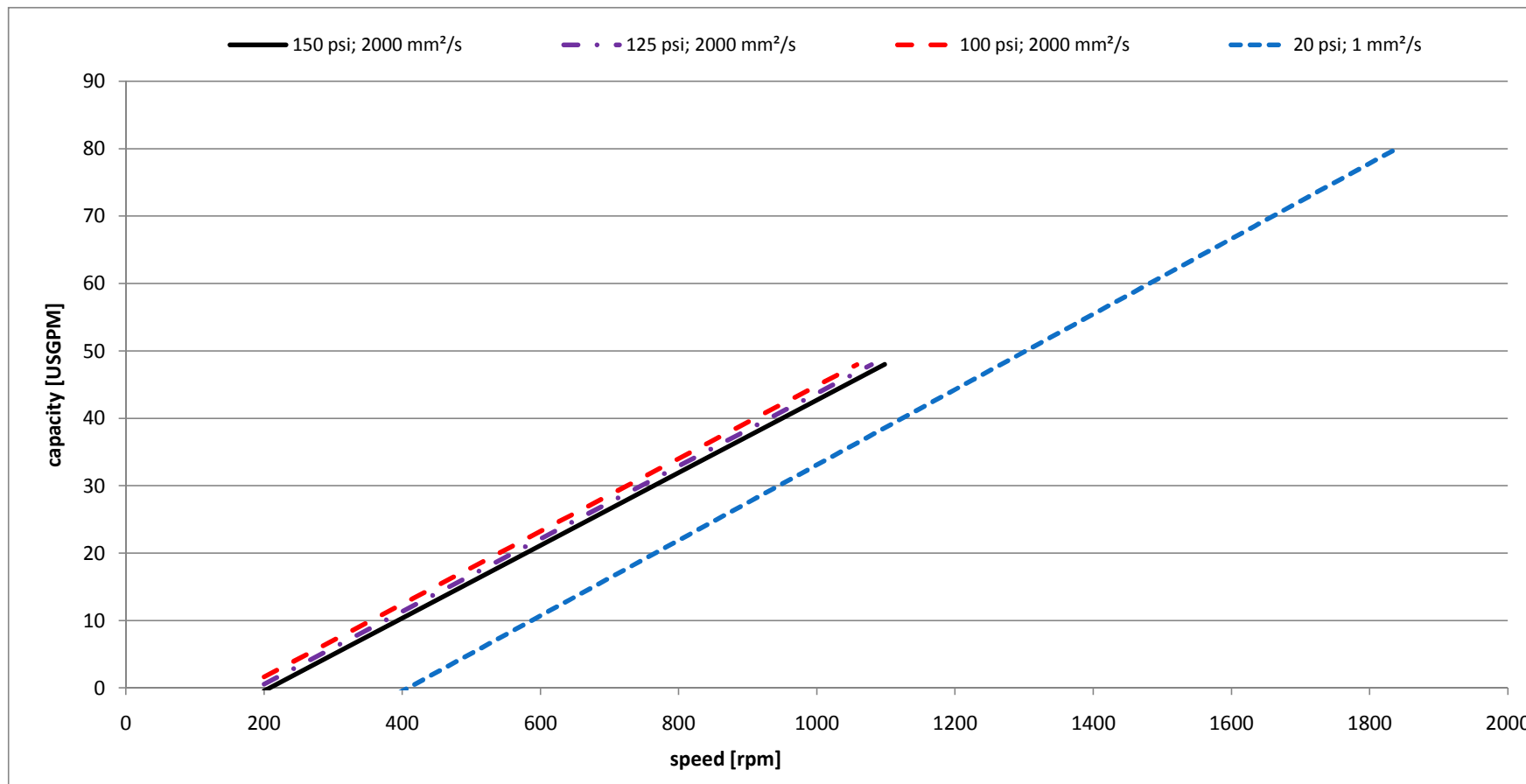


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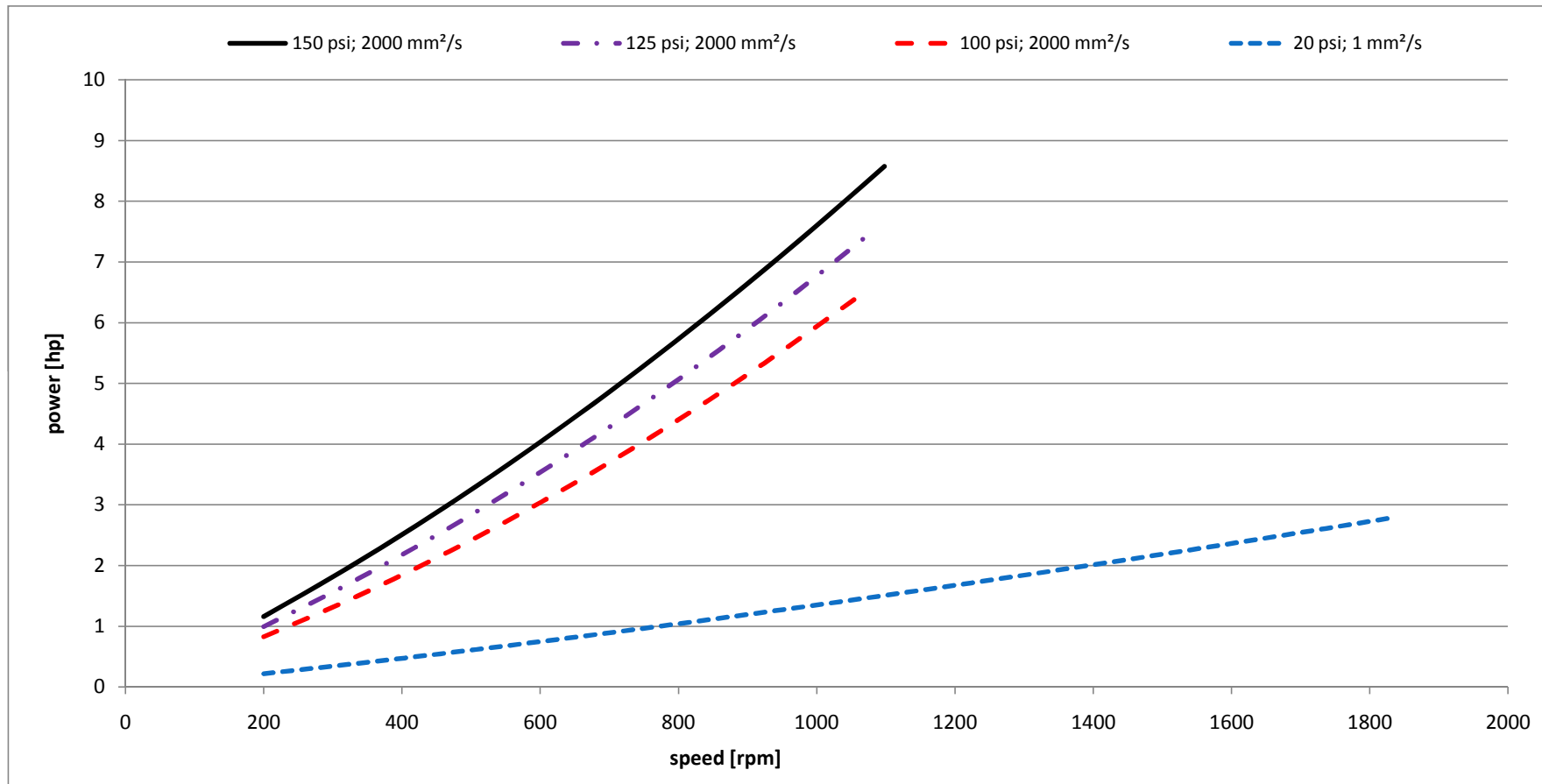
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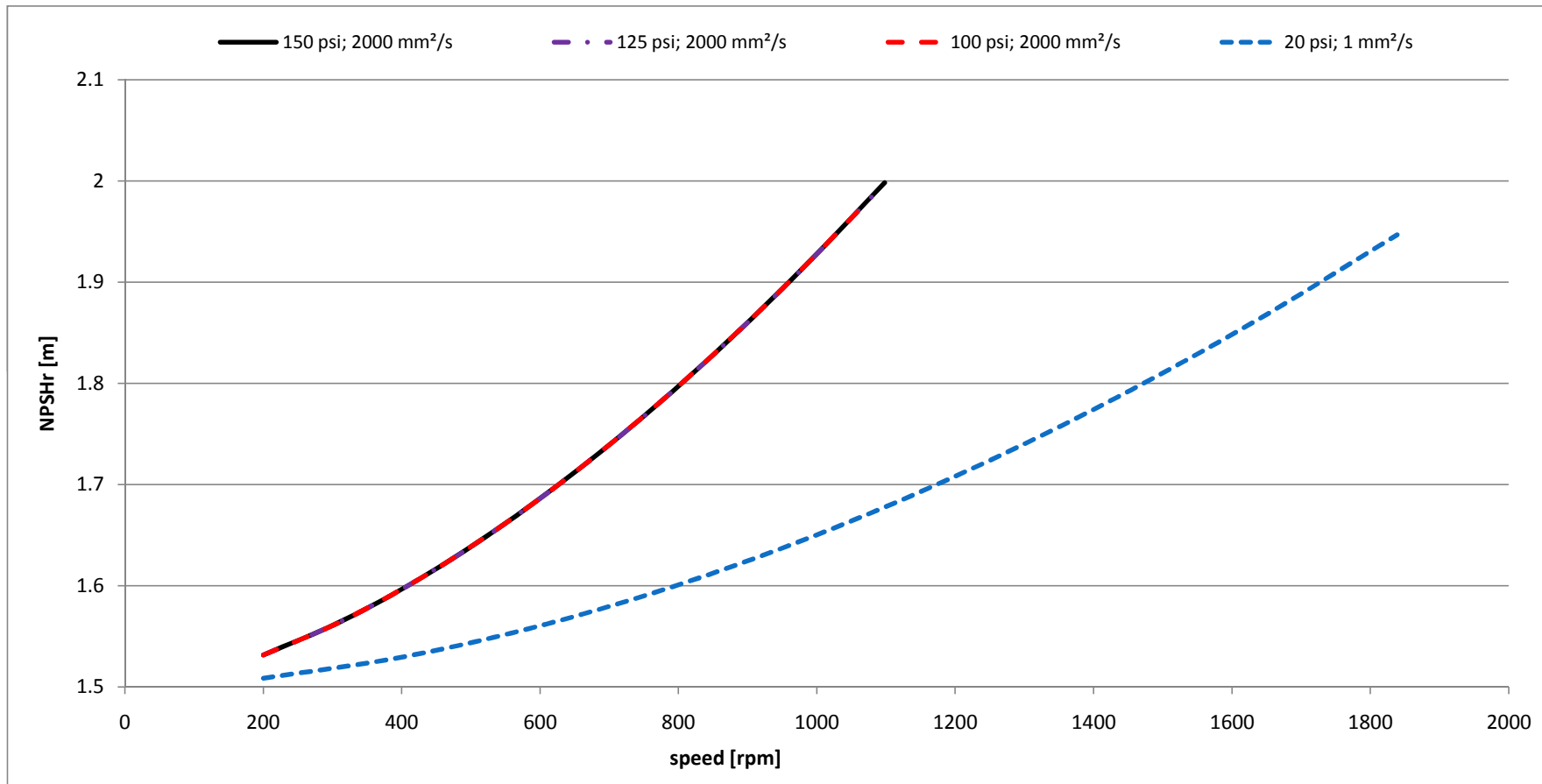


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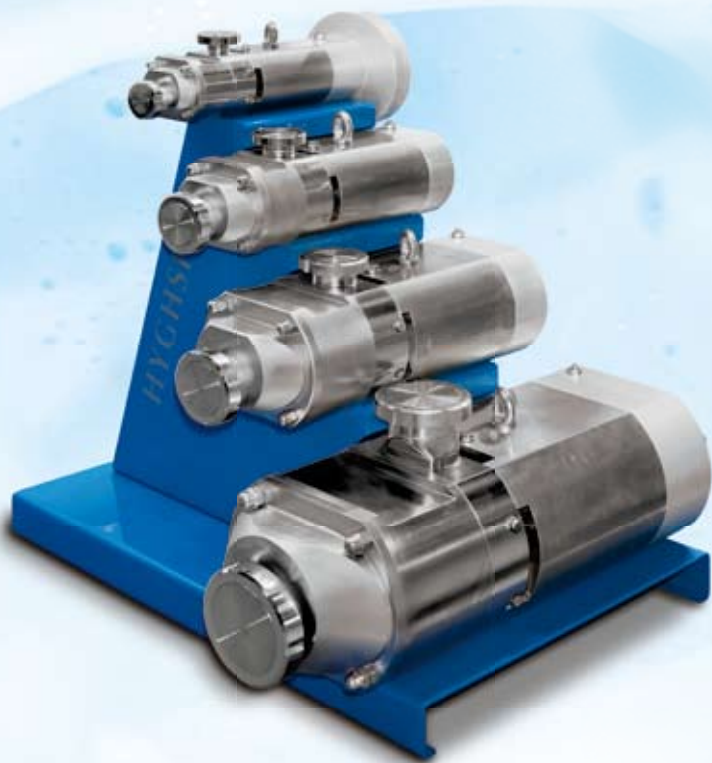
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# AXIFLOW

## Screw Spindle Pumps – Hygienic, high-performance, gentle treatment.



- ➔ Pumping of aqueous and highly viscous media
- ➔ High suction capacity
- ➔ Handling of product and CIP media with only one pump
- ➔ Gentle treatment
- ➔ Abrasion-free





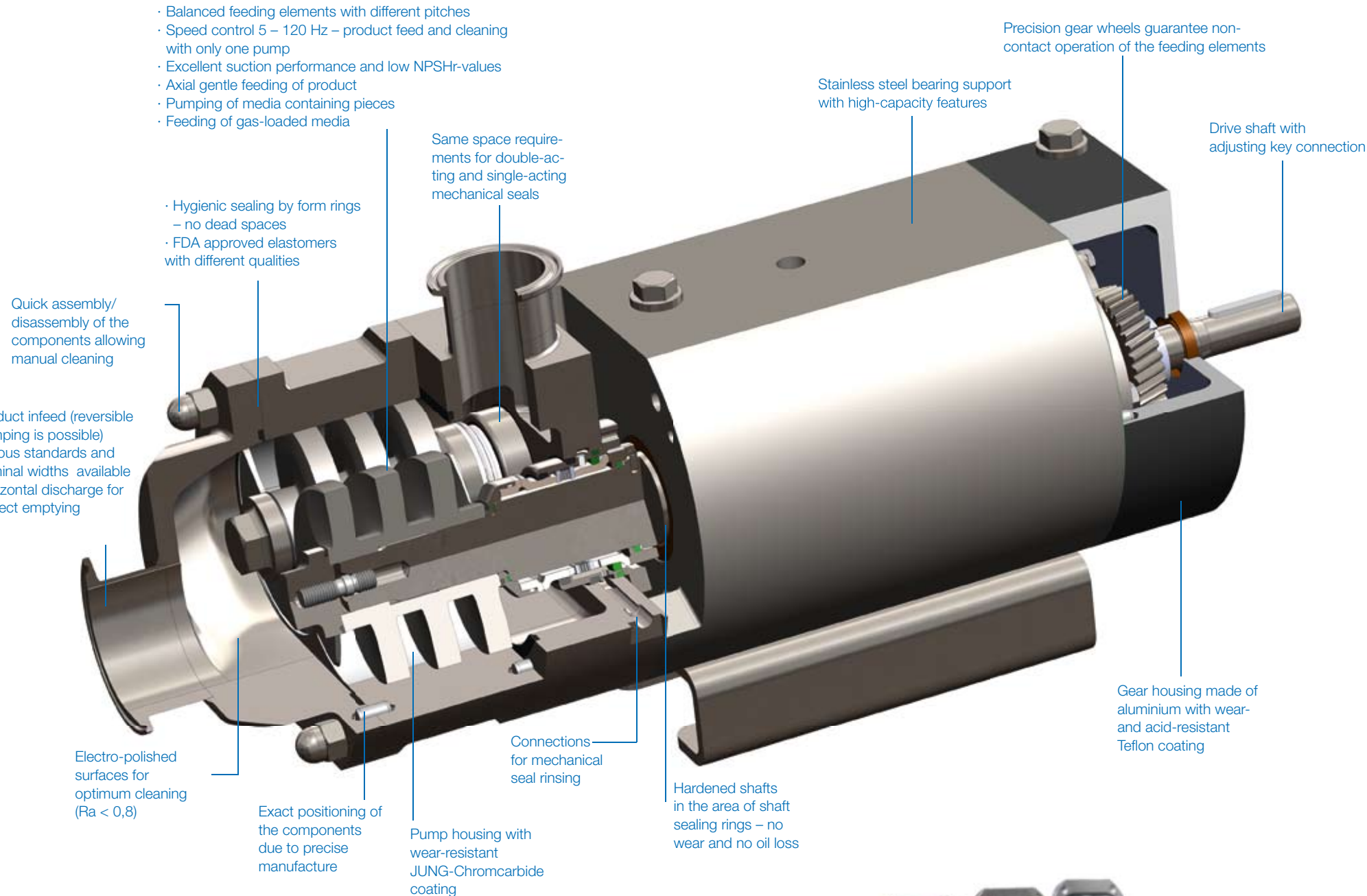
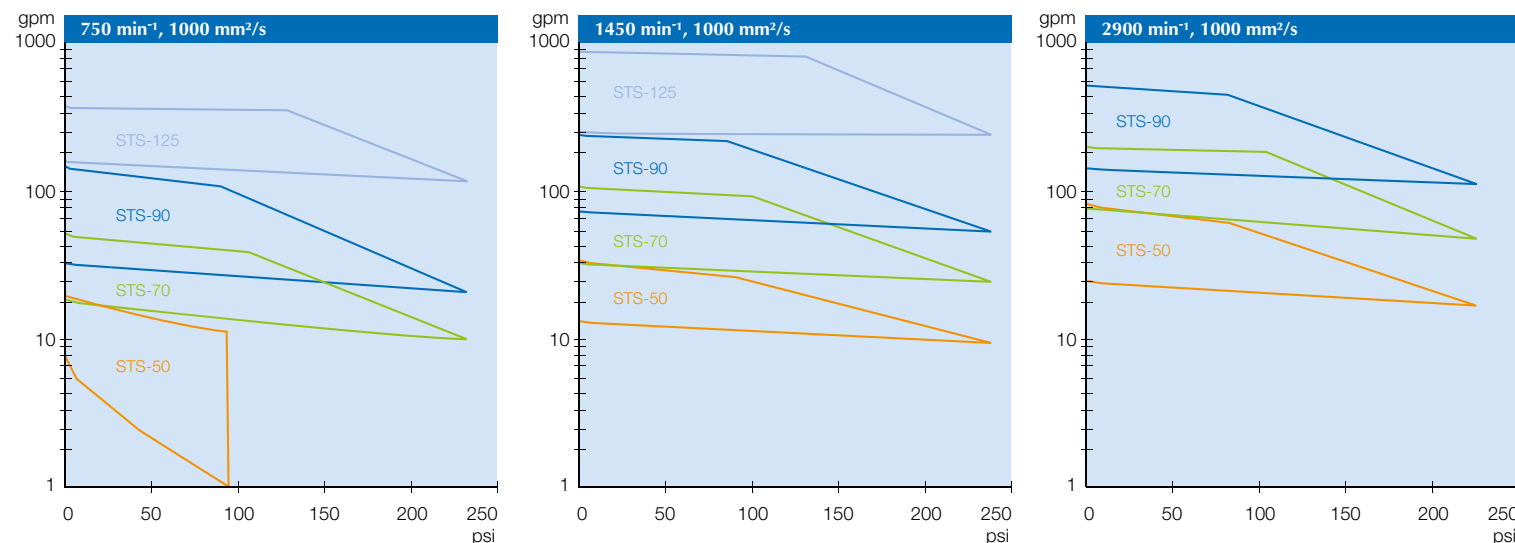
# Development, Manufacture, Assembly.

The series AXIFLOW was developed in Germany under the name HYGHSPIN for highest demands with regard to precision and hygiene: AXIFLOW complies with the quality requirements for the food and beverage industry and is also optimally suitable for many appliances in the chemical and pharmaceutical industry. Our own production site offers flexibility and is certified as per ISO 9001:2008.

## Characteristics.

- Pumping of aqueous and highly viscous media
- High suction performance
- Product and CIP with only one pump
- Pumping of fibrous media and products containing pieces
- Gentle treatment
- Abrasion-free – no contact between the feeding elements
- Supply rates up to 900 gpm
- EHEDG certified
- Simple assembly and disassembly
- Technical advisory service and optimization for all fields of application
- GOST R-certification
- 3A

## Outputs



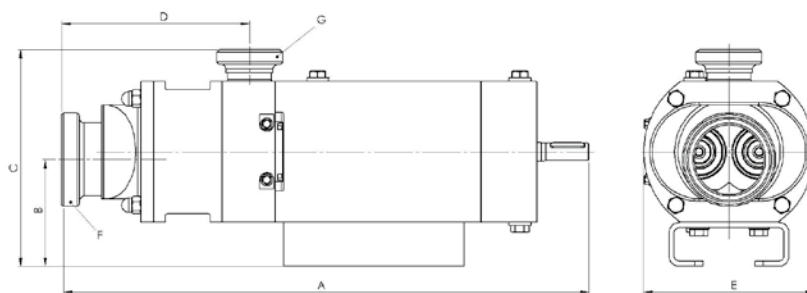
\* This pump is assembled in the U.S.A. with precision parts manufactured in Germany by Jung Process Systems GmbH

## One pump for numerous industries.

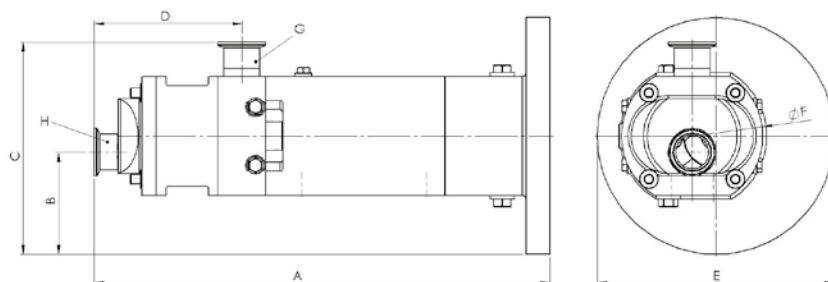
- Beverage industry
- Breweries
- Delicatessen industry
- Bakery products
- Confectionery
- Dairies and the milk industry
- Butchers
- Cosmetics and pharmacy

# Technical Data.

## Overview of the individual pump sizes.



Type	Capacity	Max. diam. of solid matter Ø	Dimensions (mm)					Connection flange	cover	weight
			A	B	C	D	E			
STS-70	0,44 – 132 gpm	1 – 1/16"	615	124	252	219	199	2" or DN50	2" or DN50 3" or DN80	65 kg
STS-90	4,4 – 352 gpm	1 – 1/8"	723	146	342	275	259	3" or DN80	3" or DN80 4" or DN100	128 kg
STS-125	44 – 900 gpm	1 – 5/8"	1004	212	491	280	249	4" or DN100	4" or DN100 6" or DN150	365 kg



Type	Capacity	Max. diam. of solid matter Ø	Dimensions (mm)						Connection flange	cover	weight
			A	B	C	D	E	F			
STSC-50	0,15 – 66 gpm	9/16"	495	108	224	156	250	149	1½" or DN40	1½" or DN40 2" or DN50	37 kg
STSC-70	0,44 – 132 gpm	1 – 1/16"	650	200	295	209	350	199	2" or DN50	2" or DN50 3" or DN80	68 kg
STSC-90	4,4 – 352 gpm	1 – 1/8"	785	148	334	275	350	259	2,5" or DN65	3" or DN80 4" or DN100	150 kg



## Overview.

### Performance features

Capacity	0,15 – 900 gpm
Differential pressure	230 Psi, optional 360 Psi
Suction capacity	NPSHr up to 0,5 m
Viscosity	0,5 – 1.000.000 cSt
Product temperature	14°F – 266°F, with oil cooler 320°F
Cleaning temperature	284°F
Sterilization temperature	up to 293°F
Product-contact parts made of	1.4404 with 3.1 certificate (other materials upon request)
Elastomers	HNBR and FDA approved (other elastomers upon request)