

 ITT ENGINEERED FOR LIFE ITT Bornemann GmbH - Industriestrasse 2 31683 Obernkirchen - Germany Tel.: +49 5724 390 0 Fax. +49 5724 390290		 Bornemann		Performance curve W 9.5zk 89/1					date 05.02.2019 expert D. Blatt project number - reference - revision 000		
Selection											
		PITCH ONLY / normal visc / high flow	PITCH ONLY / normal visc / low flow	PITCH ONLY / high visc / high flow	PITCH ONLY / high visc / low flow	FLUSH OIL MIXTURE / normal visc / high flow	FLUSH OIL MIXTURE / normal visc / low flow	STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / high flow	STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / low flow	MAINT. LFD / low visc / high flow	MAINT. LFD / low visc / low flow
Speed	rpm	1.466	531	1.251	498	1.569	749	1.574	790	1.794	1.265
Differential pressure	bar	18,1	10,3	18,1	10,3	18,1	10,3	13,8	10,3	15,2	10,3
Viscosity	mm²/s	28,8	515	2219	2219	6,8	6,8	1,5	1,5	0,6	0,6
Capacity	m³/h	727	273	727	273	727	273	727	273	510	273
NPSHr	m	2,9	1,9	3,9	2,0	3,0	1,9	2,9	1,9	3,1	2,4
Power consumption	kW	566	128	680	130	580	152	456	159	512	245
Total efficiency	%	65%	61%	54%	60%	63%	51%	61%	49%	42%	32%
Mech. Efficiency	%	80%	73%	57%	67%	83%	87%	81%	87%	91%	91%
Hydr. Efficiency	%	81%	84%	95%	89%	75%	59%	75%	56%	46%	35%
Torque	Nm	3.689	2.305	5.188	2.490	3.533	1.937	2.765	1.920	2.728	1.849

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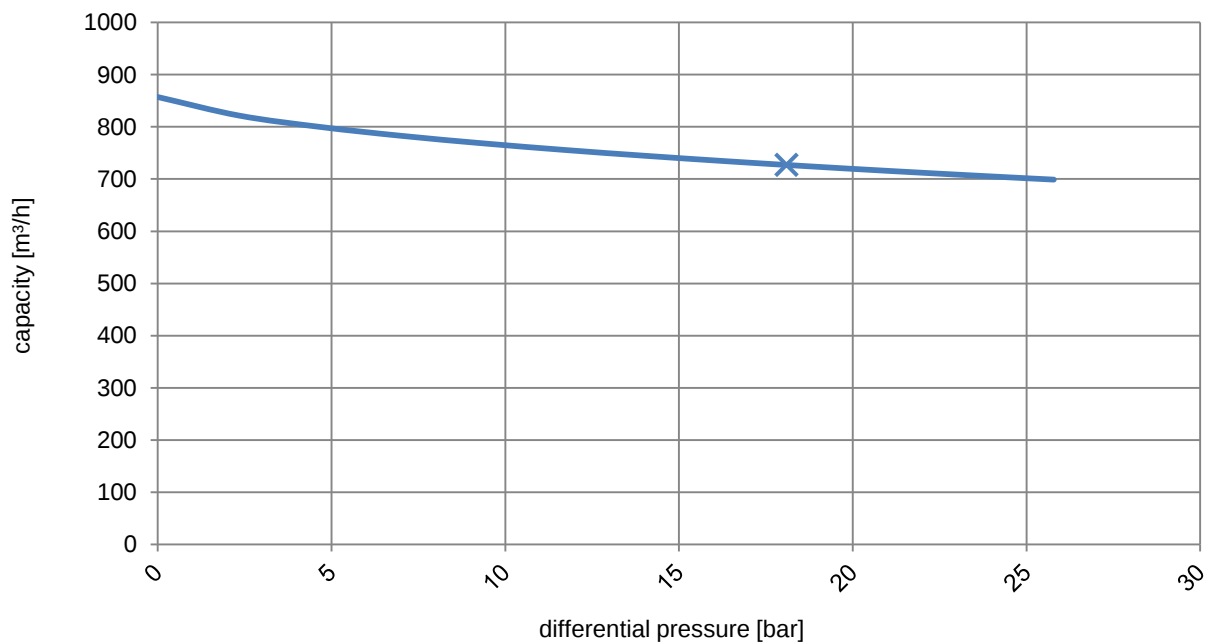
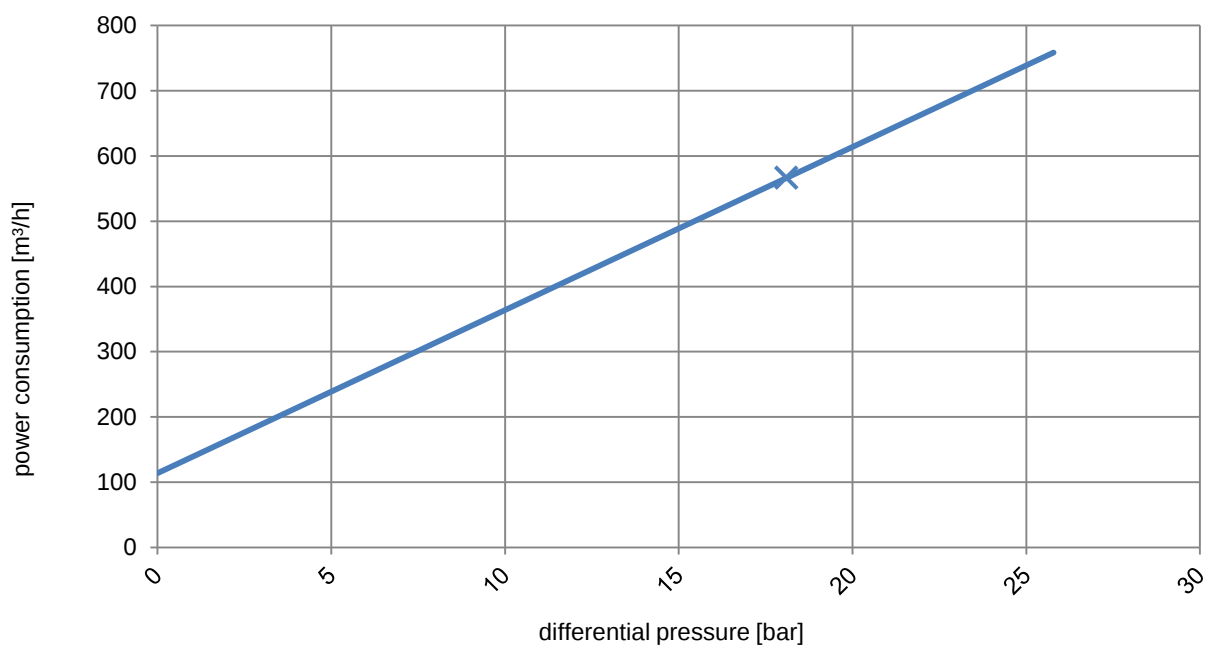
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**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
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revision	000

PITCH ONLY / normal visc / high flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
727	1466	28,8	18,10	566
gpm	rpm	cst	psi	HP
3200	1466	28,8	263	760

Capacity Curve**Absorbed Power Curve**

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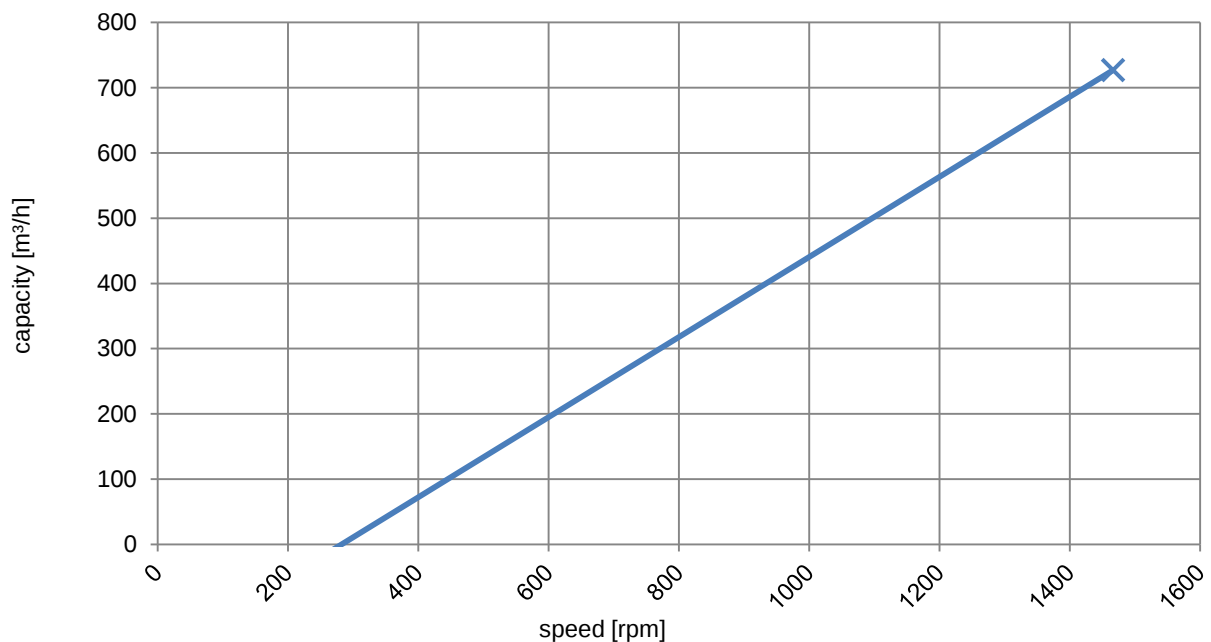
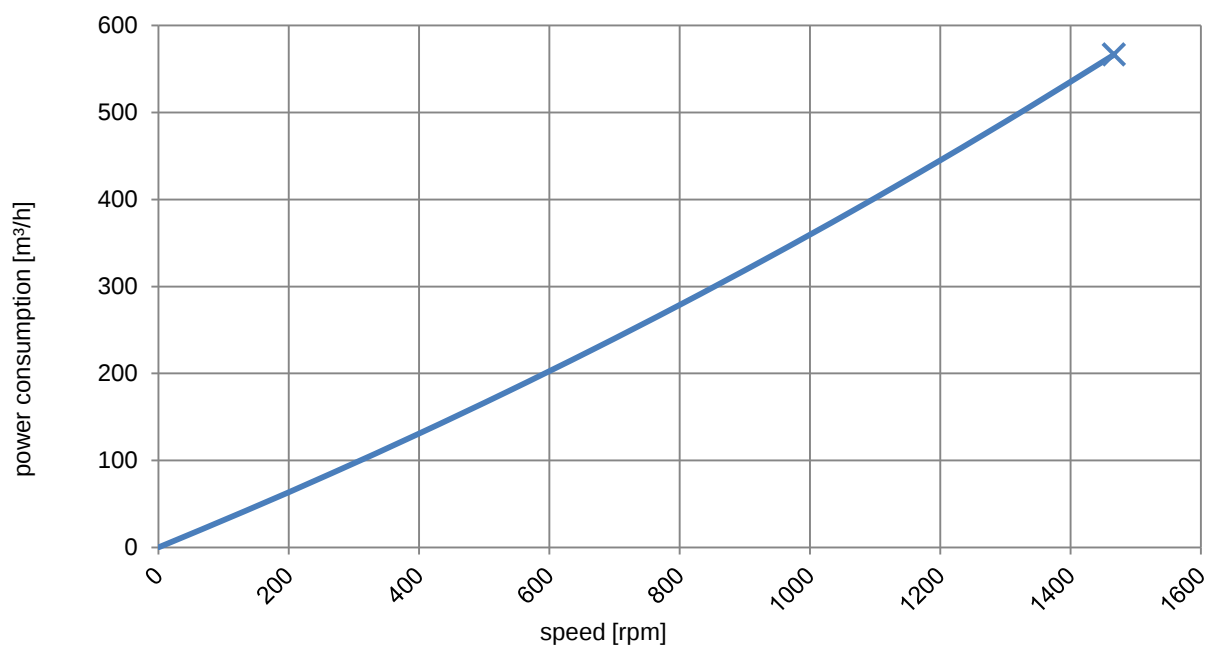
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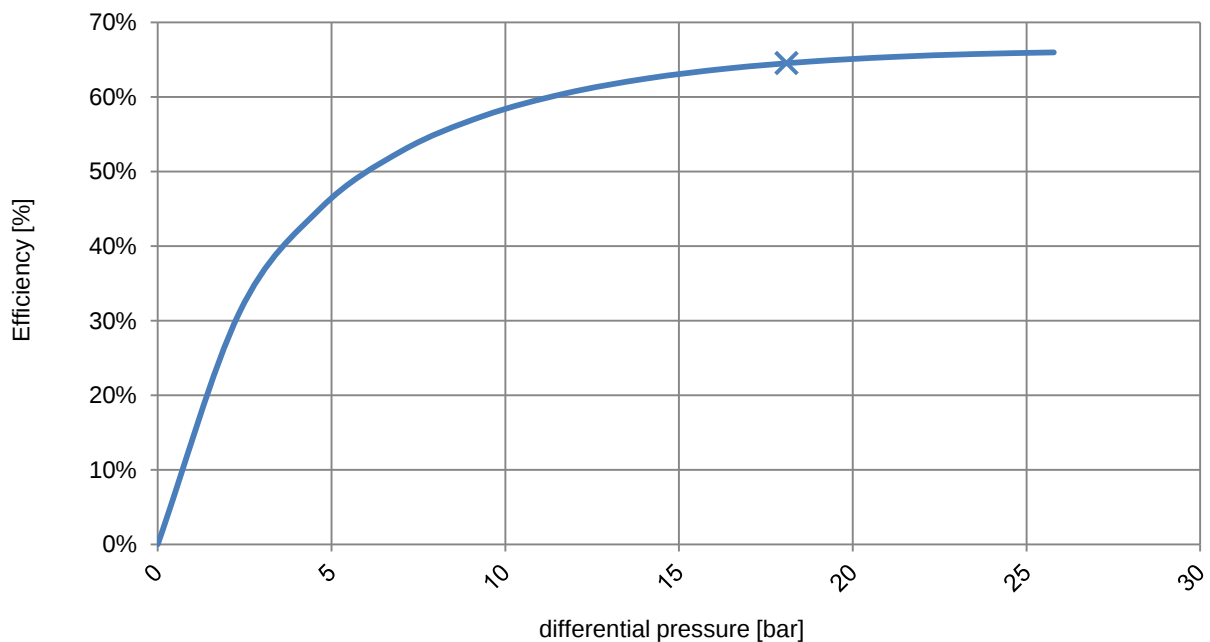
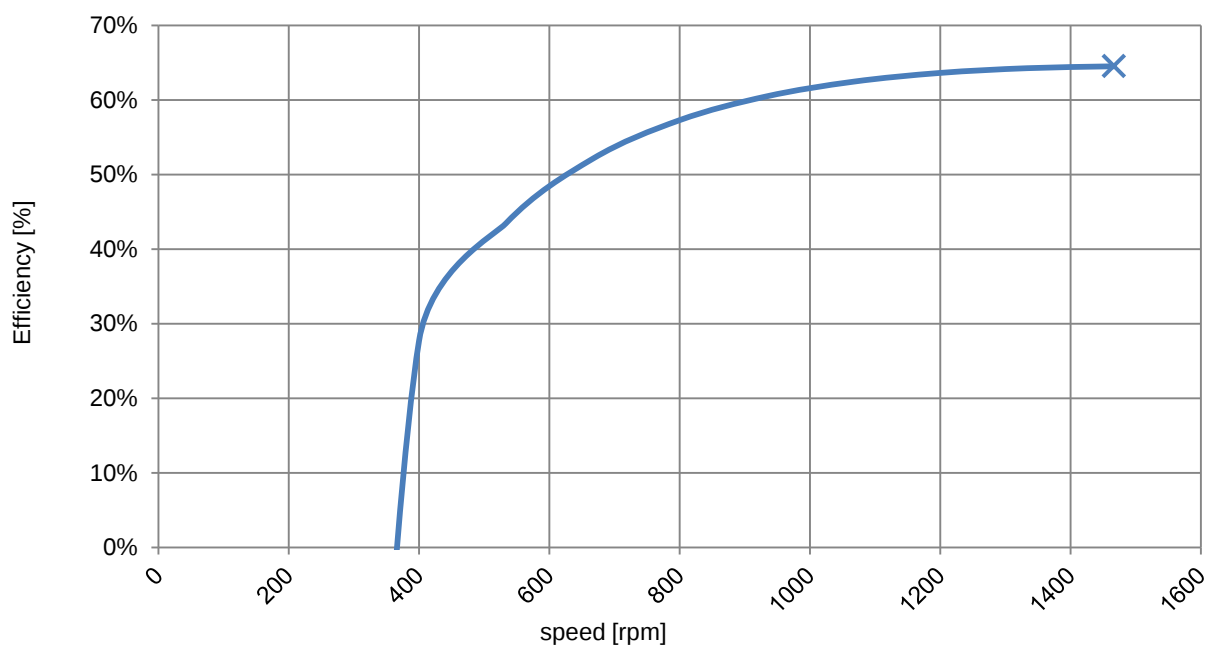
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Efficiency**Efficiency**

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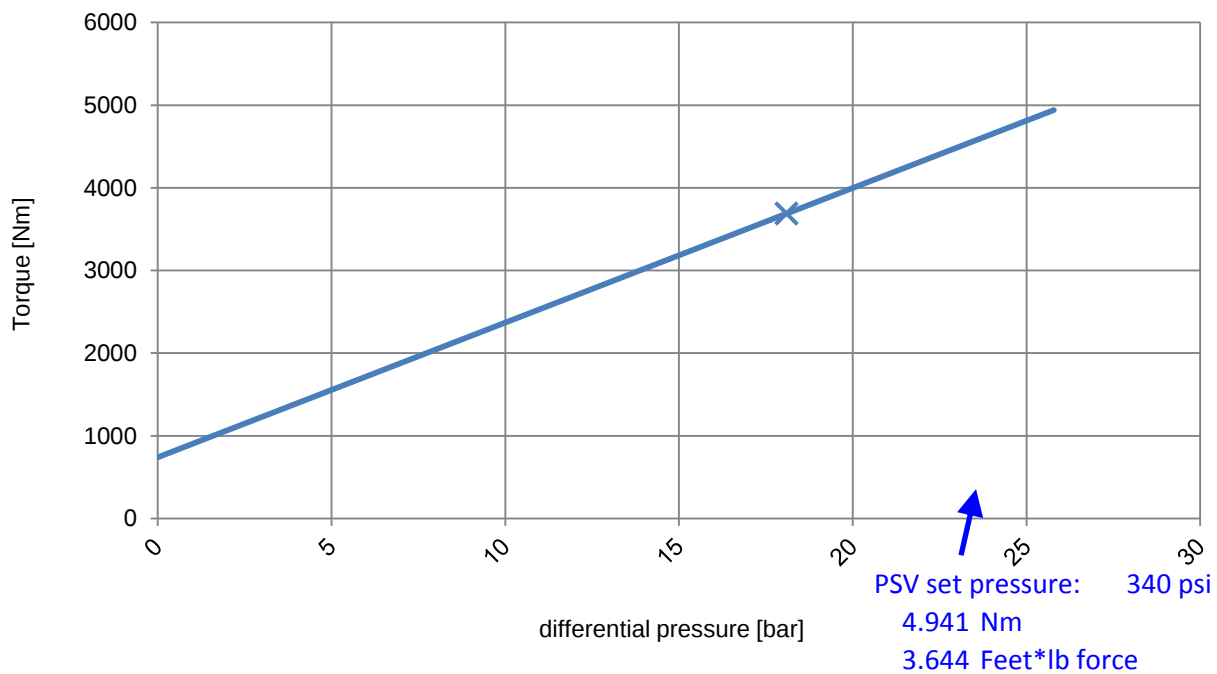
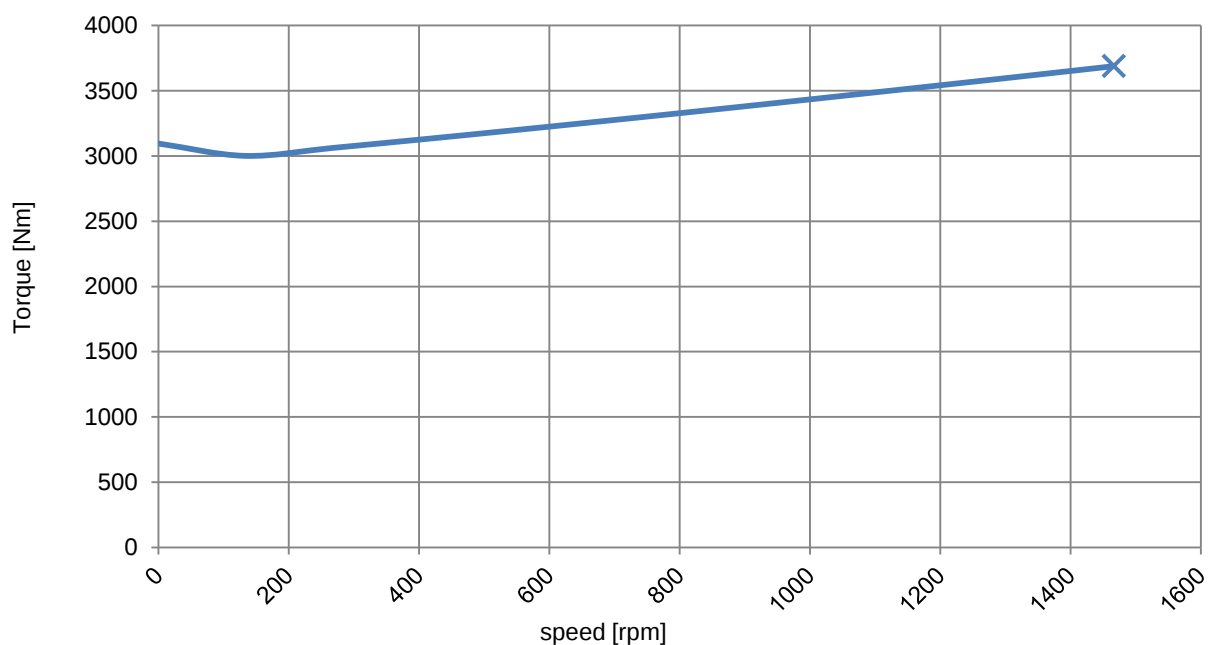
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Torque vs. dp**Torque vs. speed**

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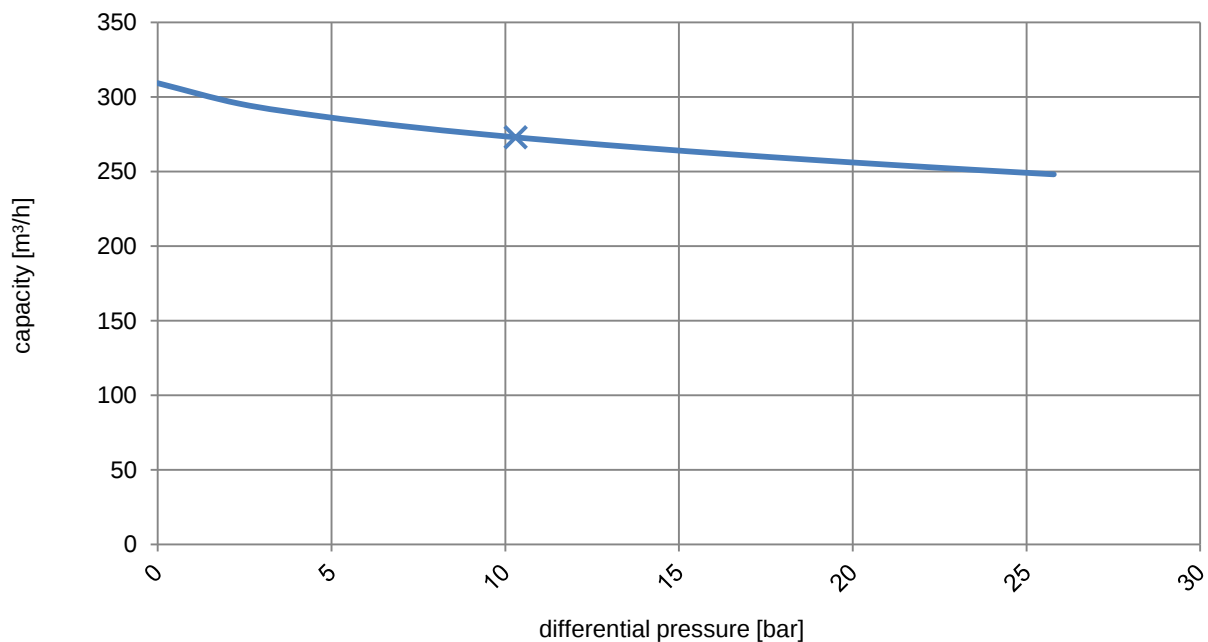
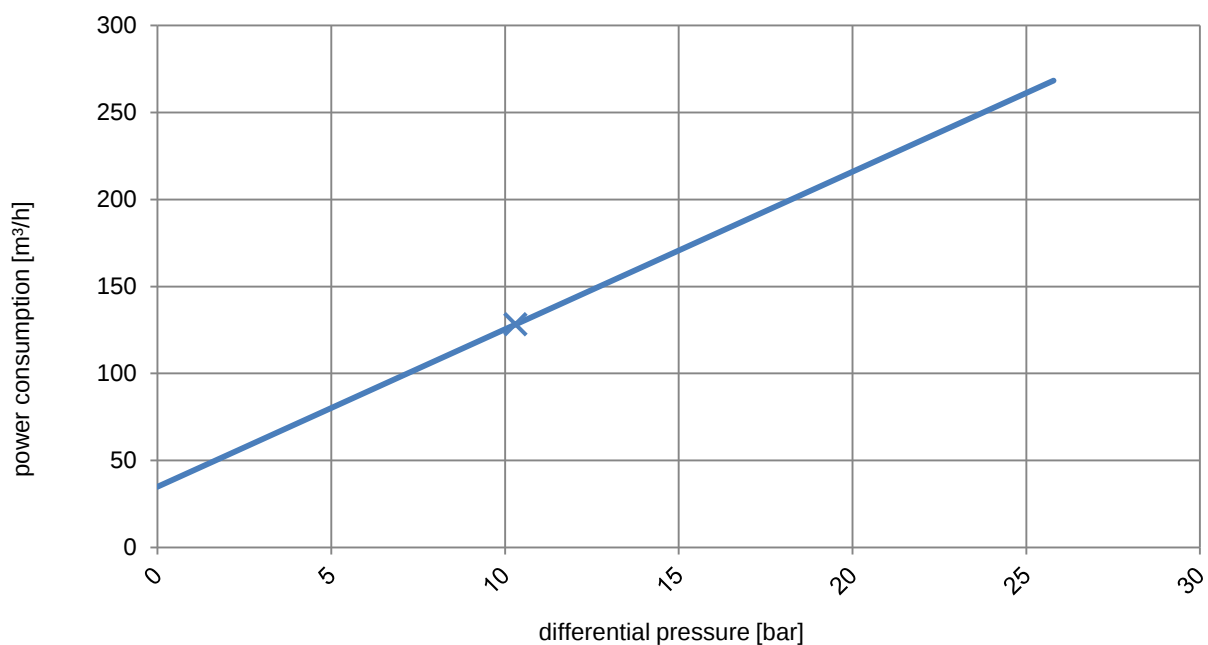
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PITCH ONLY / normal visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	531	515,0	10,30	128
gpm	rpm	cst	psi	HP
1200	531	515,0	149	172

Capacity Curve**Absorbed Power Curve**

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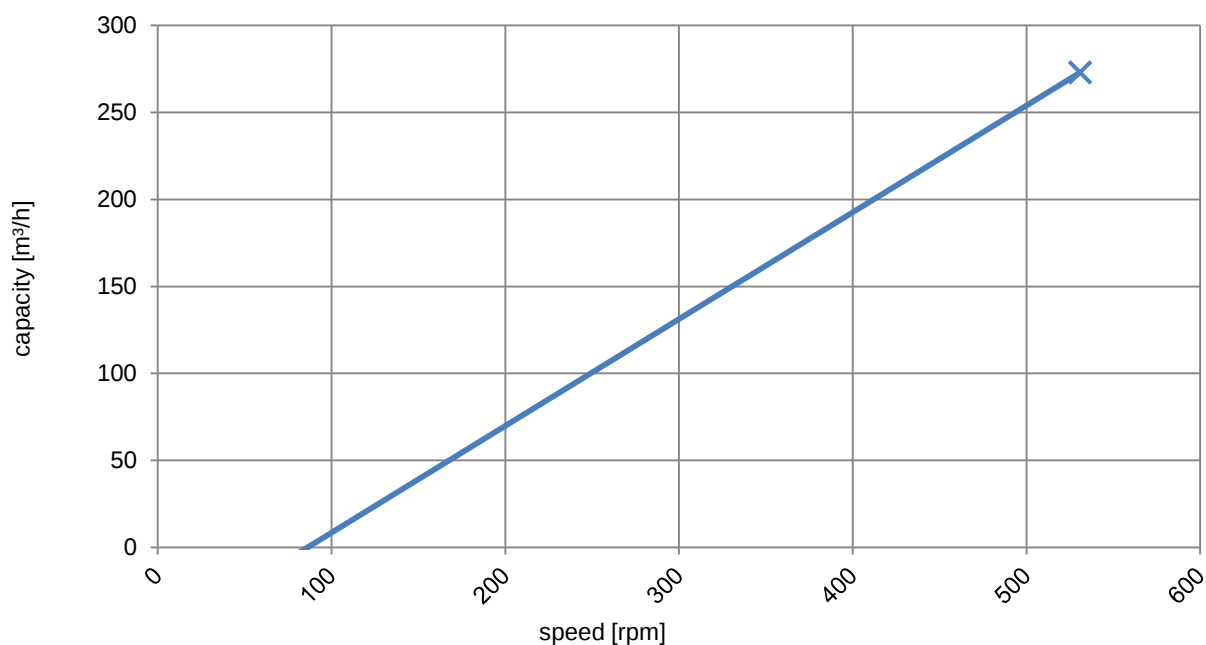
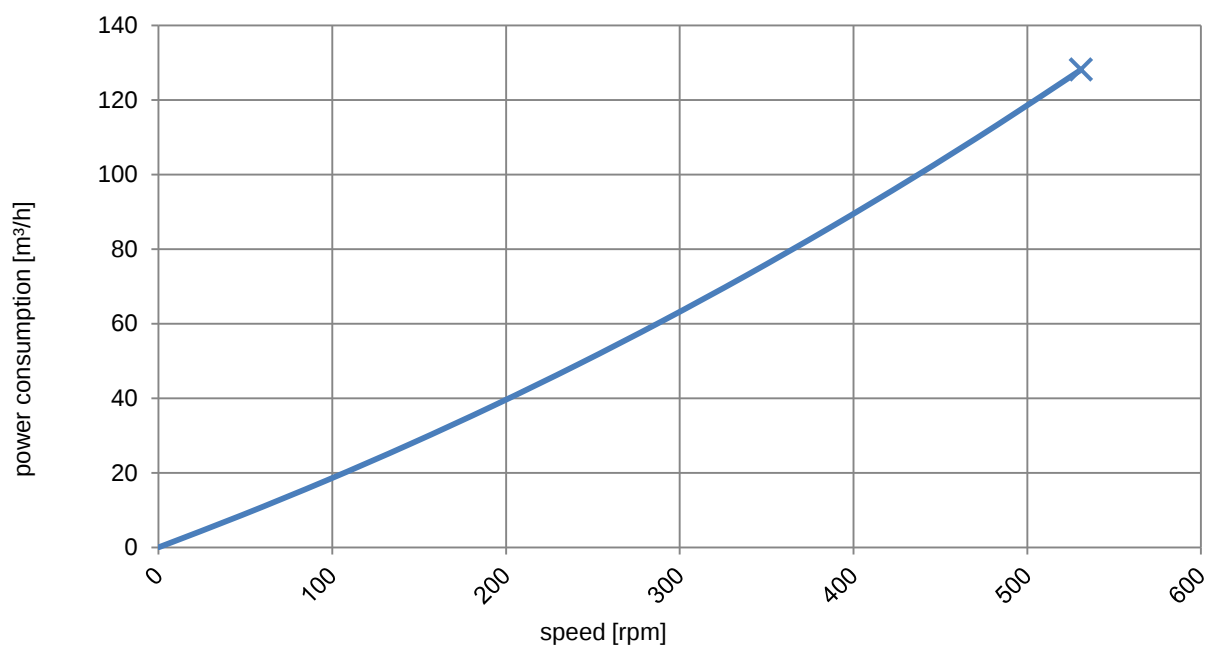
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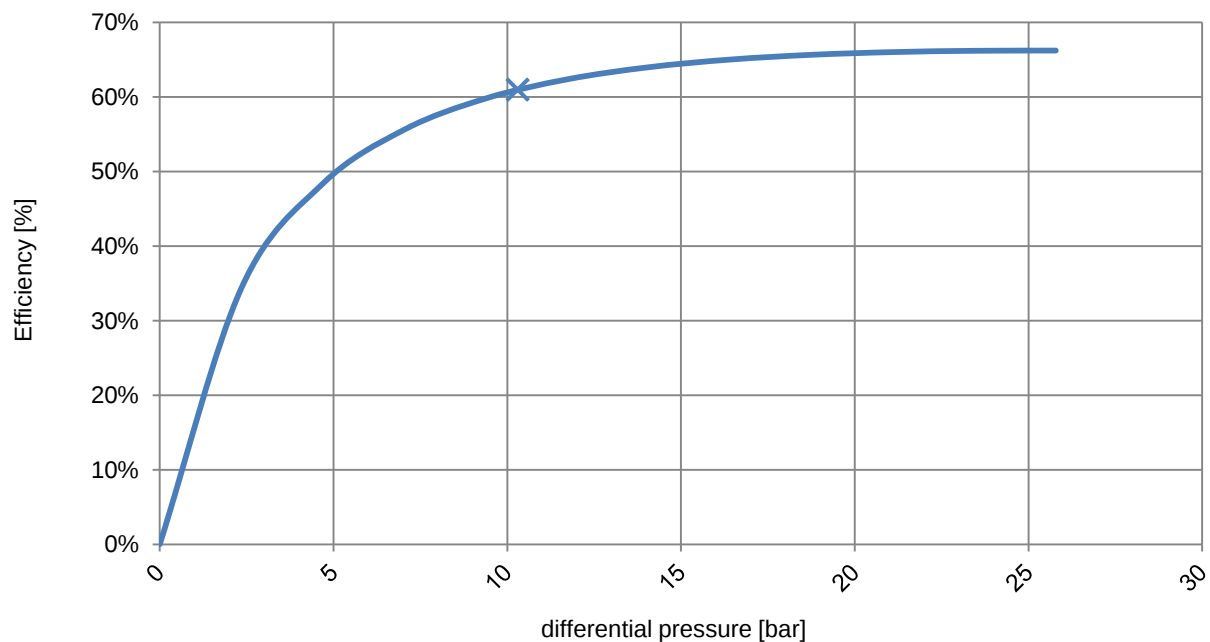
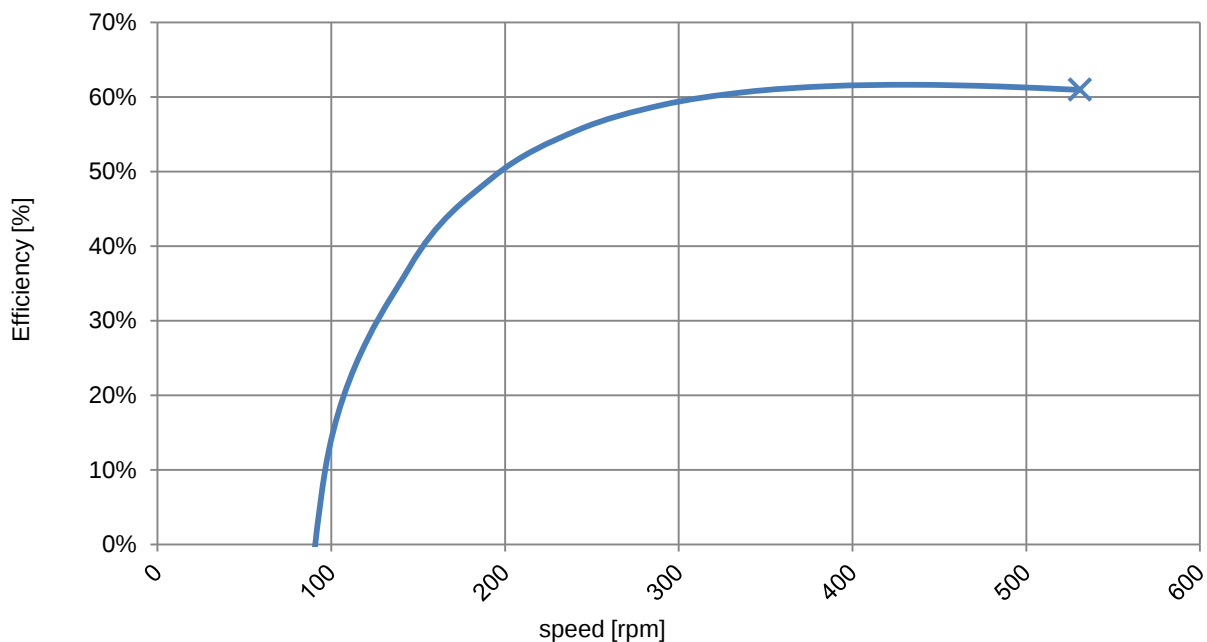
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Efficiency**Efficiency**

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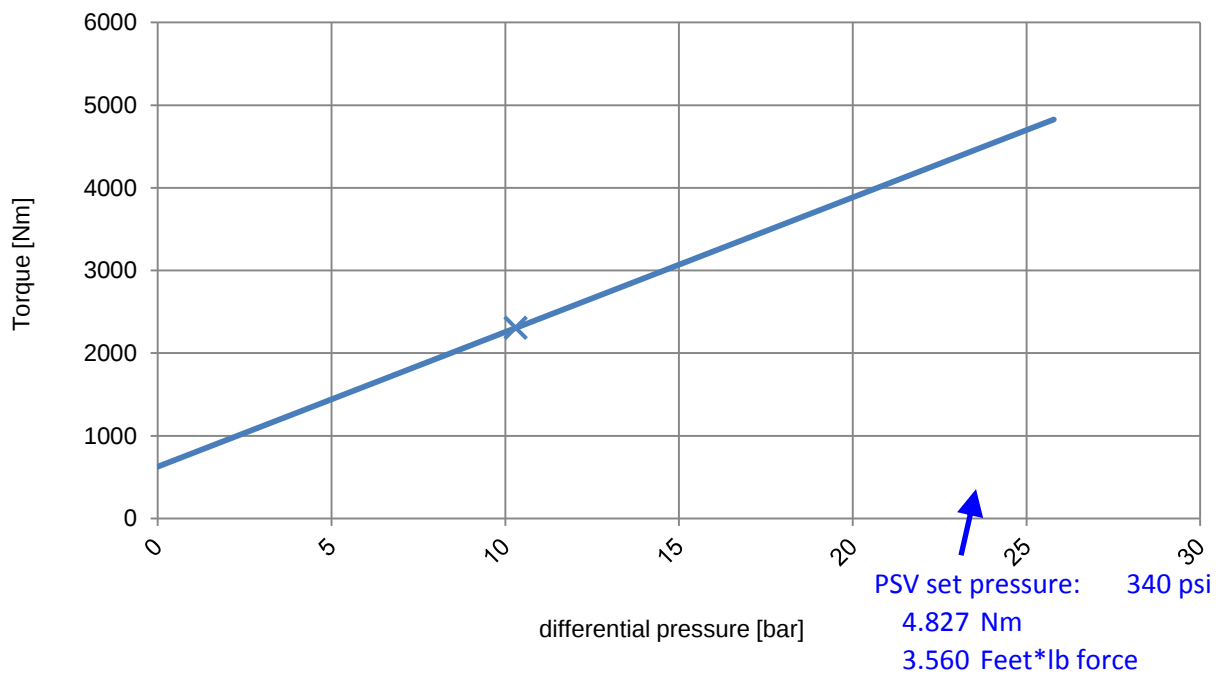
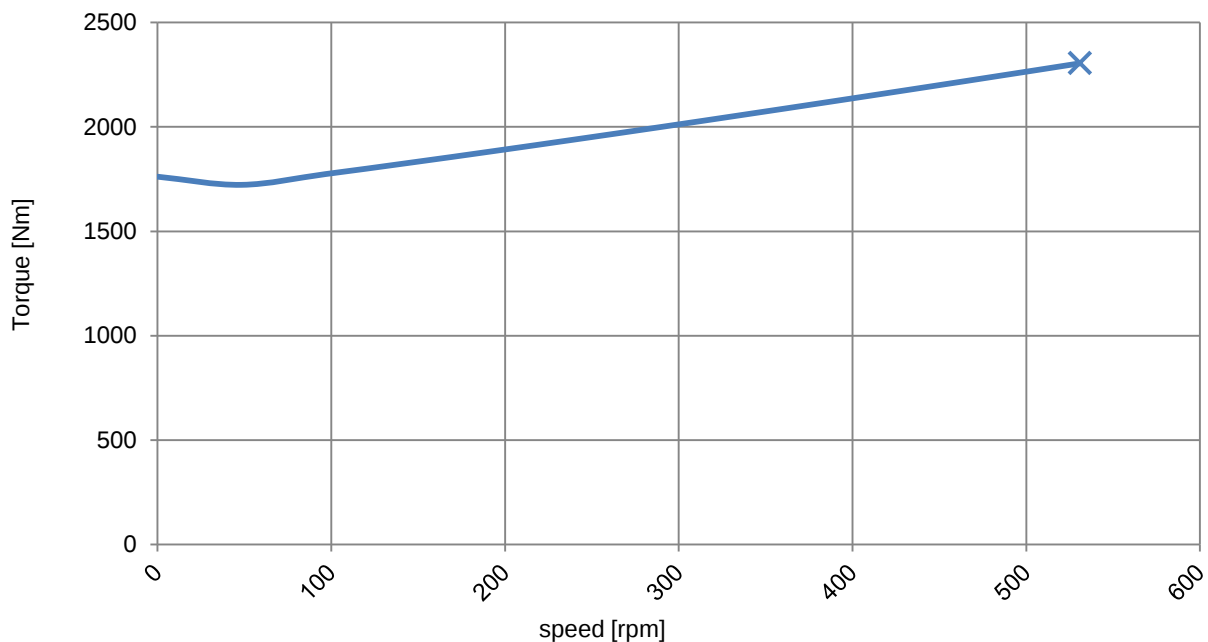
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Torque vs. dp**Torque vs. speed**

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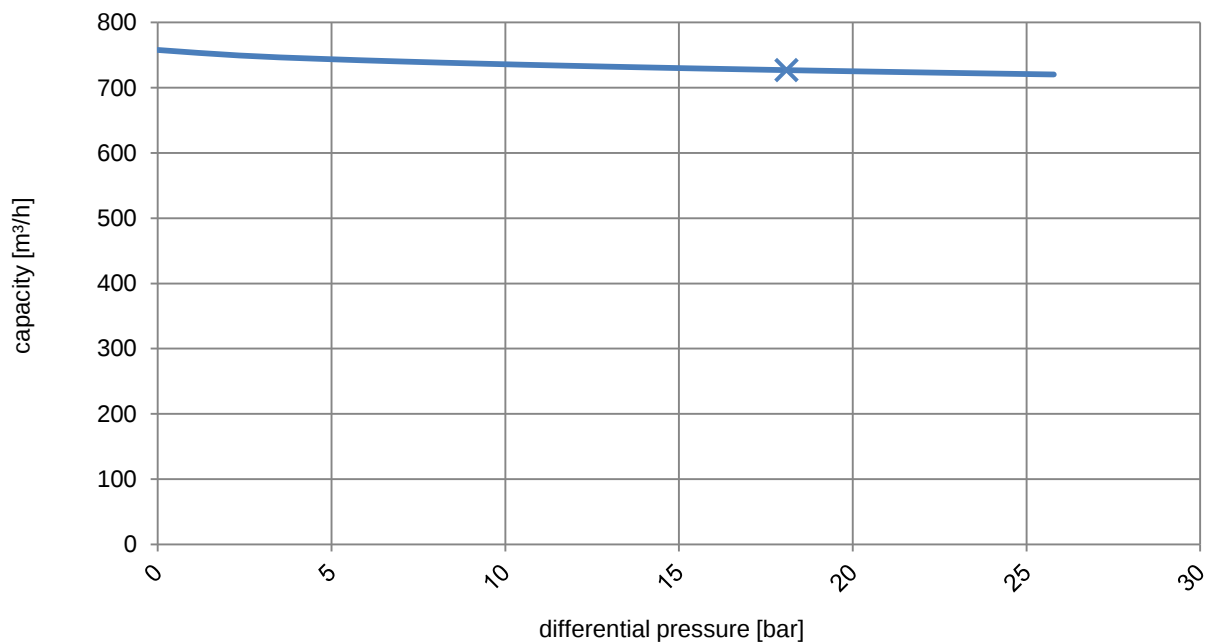
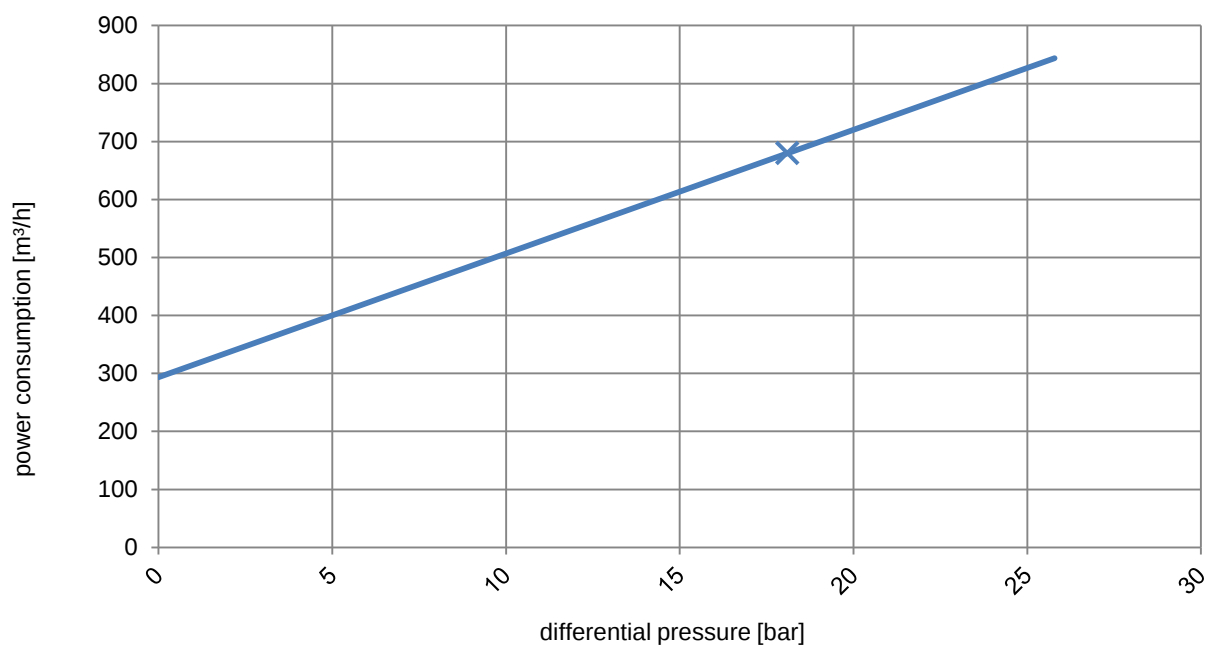
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PITCH ONLY / high visc / high flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
727	1251	2219,0	18,10	680
gpm	rpm	cst	psi	HP
3200	1251	2219,0	263	911

Capacity Curve**Absorbed Power Curve**

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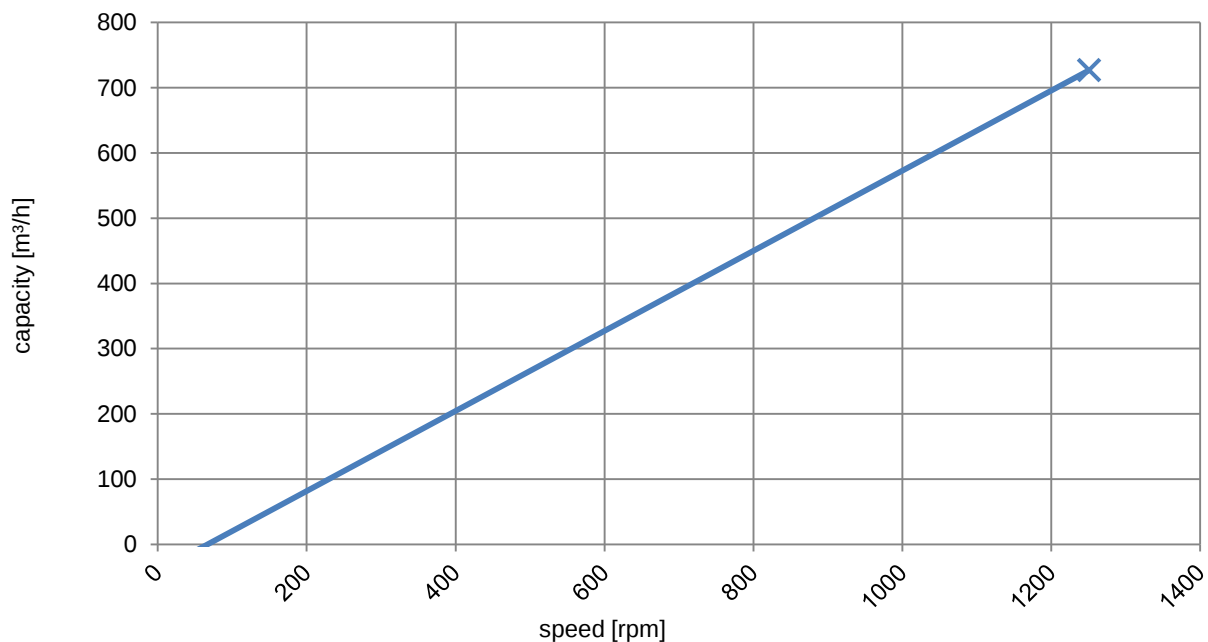
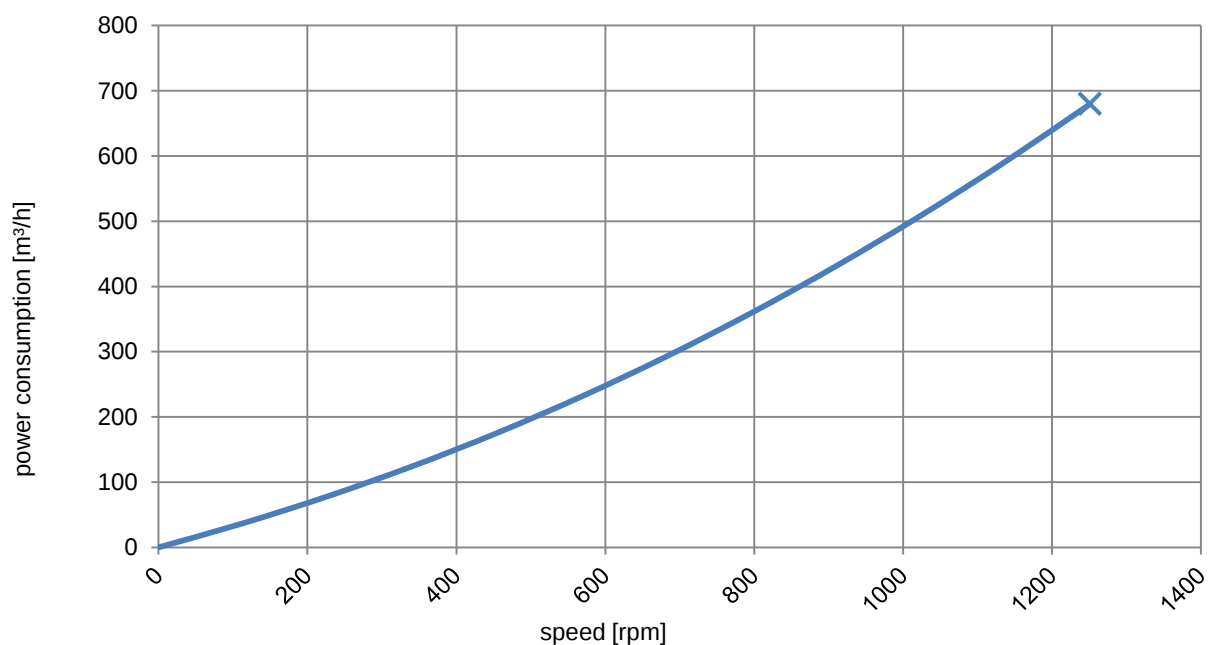
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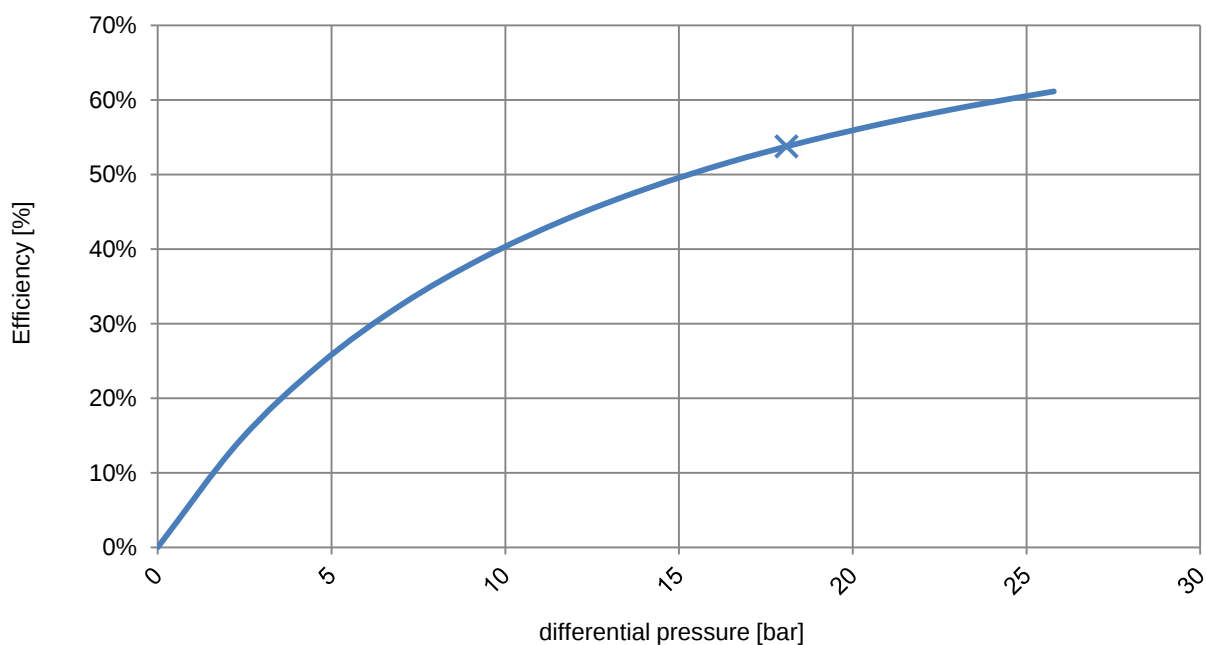
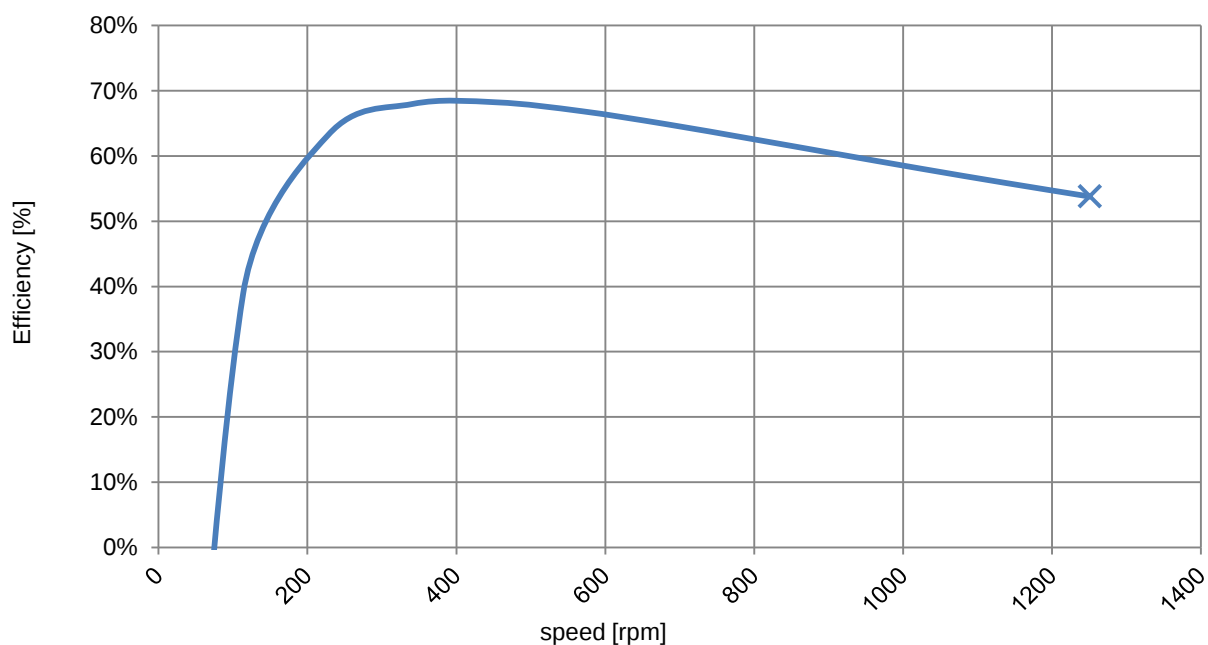
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Efficiency**Efficiency**

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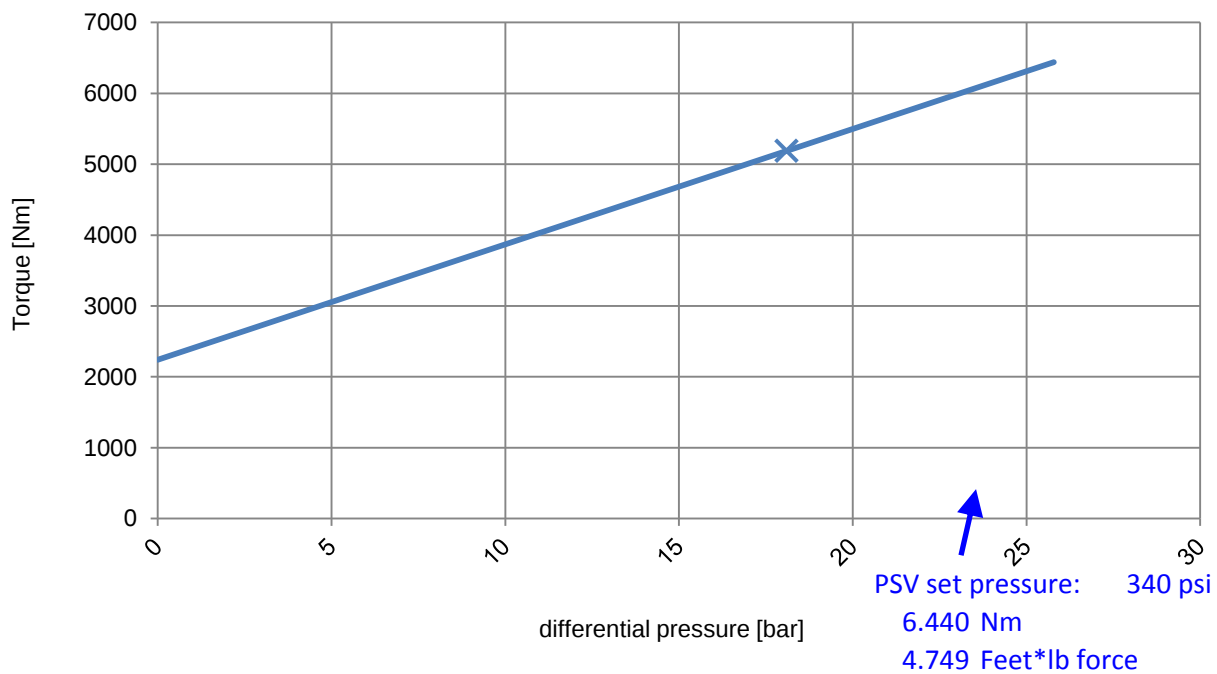
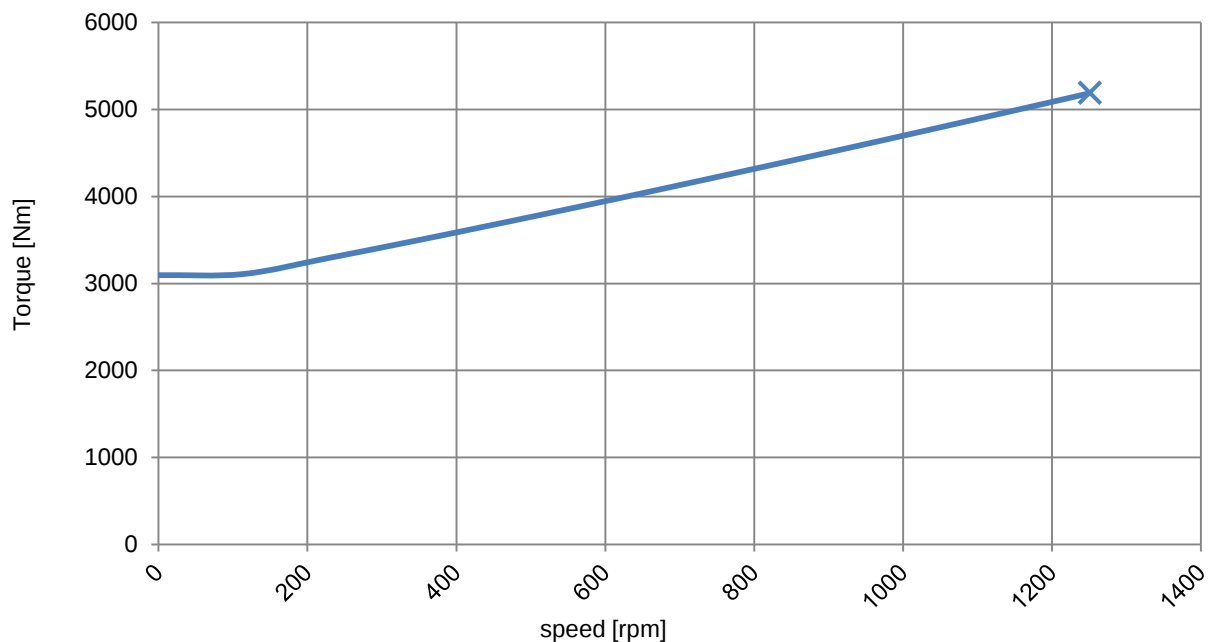
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Torque vs. dp**Torque vs. speed**

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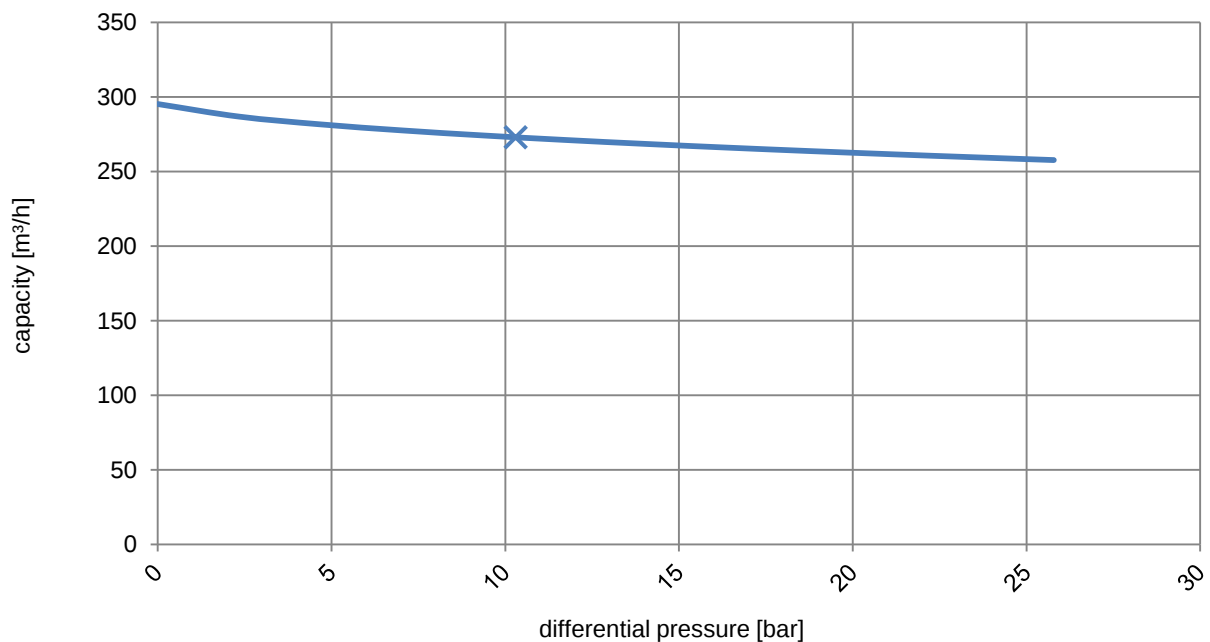
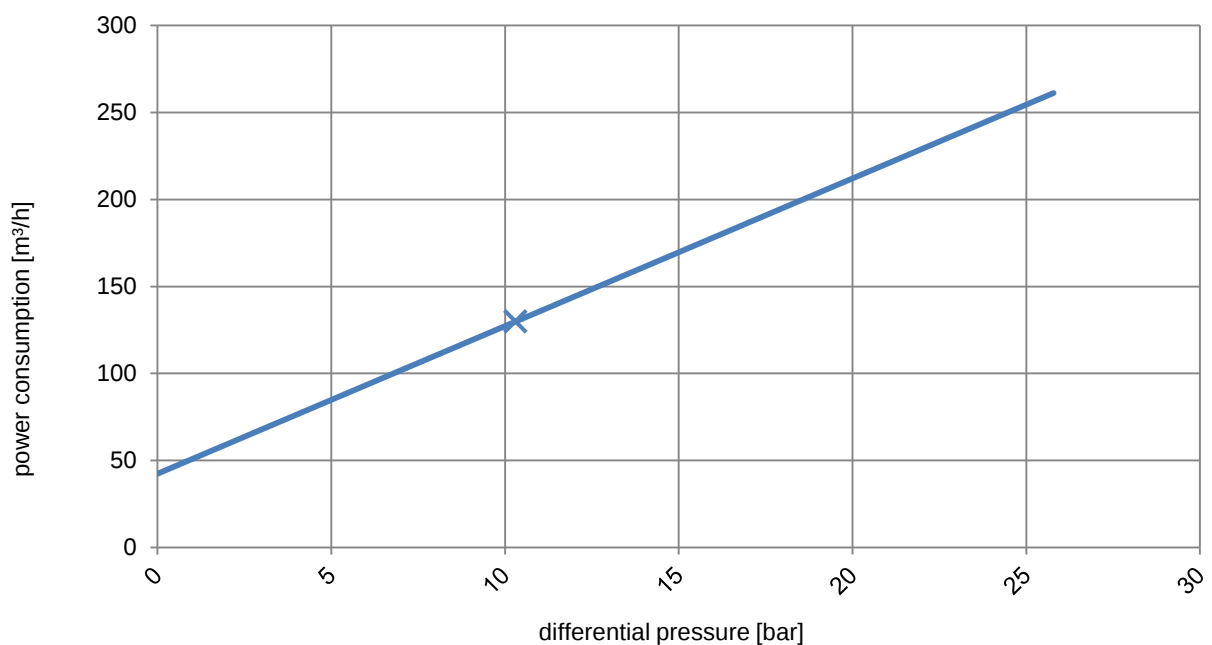
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PITCH ONLY / high visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	498	2219,0	10,30	130
gpm	rpm	cst	psi	HP
1200	498	2219,0	149	174

Capacity Curve**Absorbed Power Curve**

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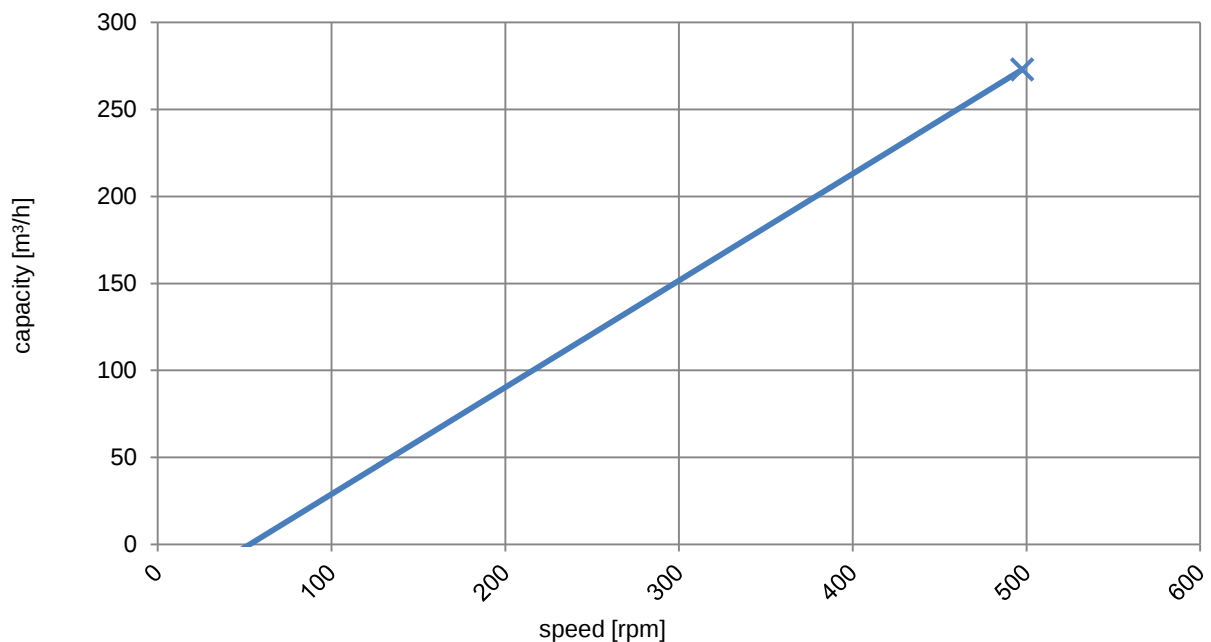
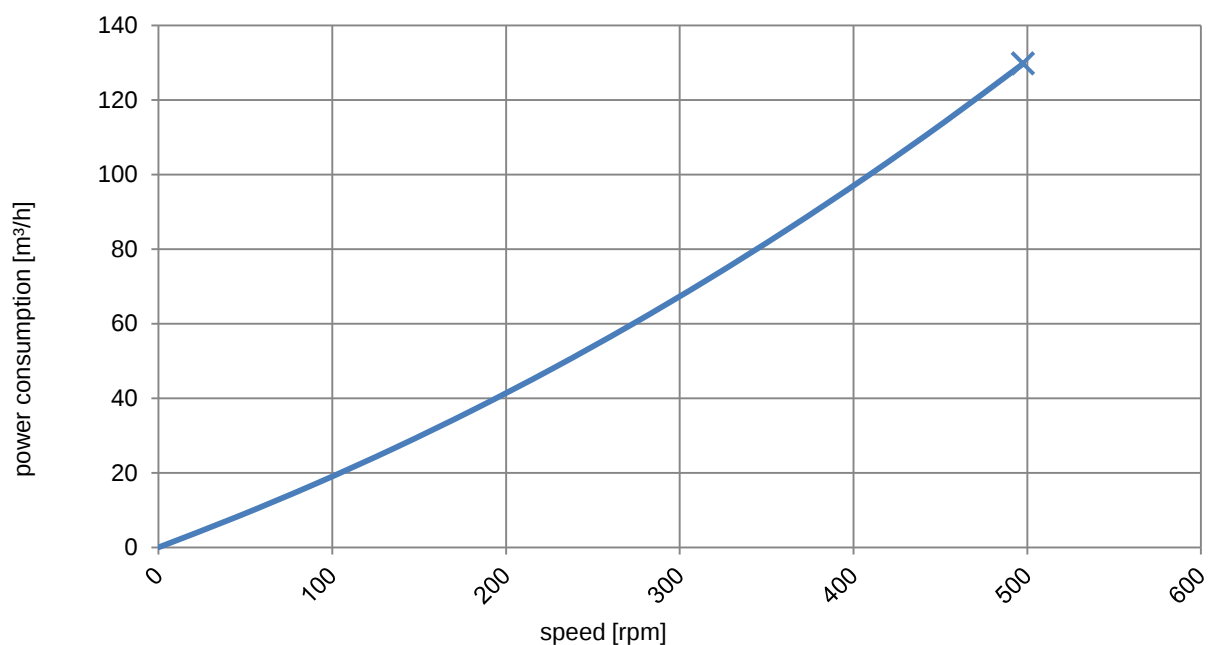
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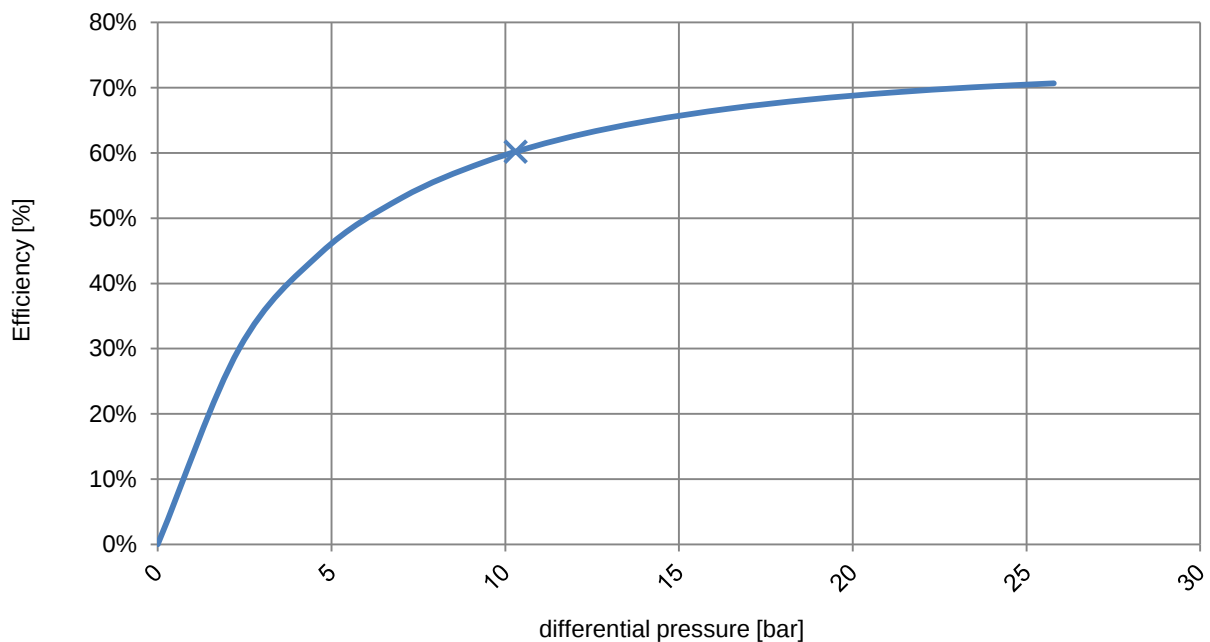
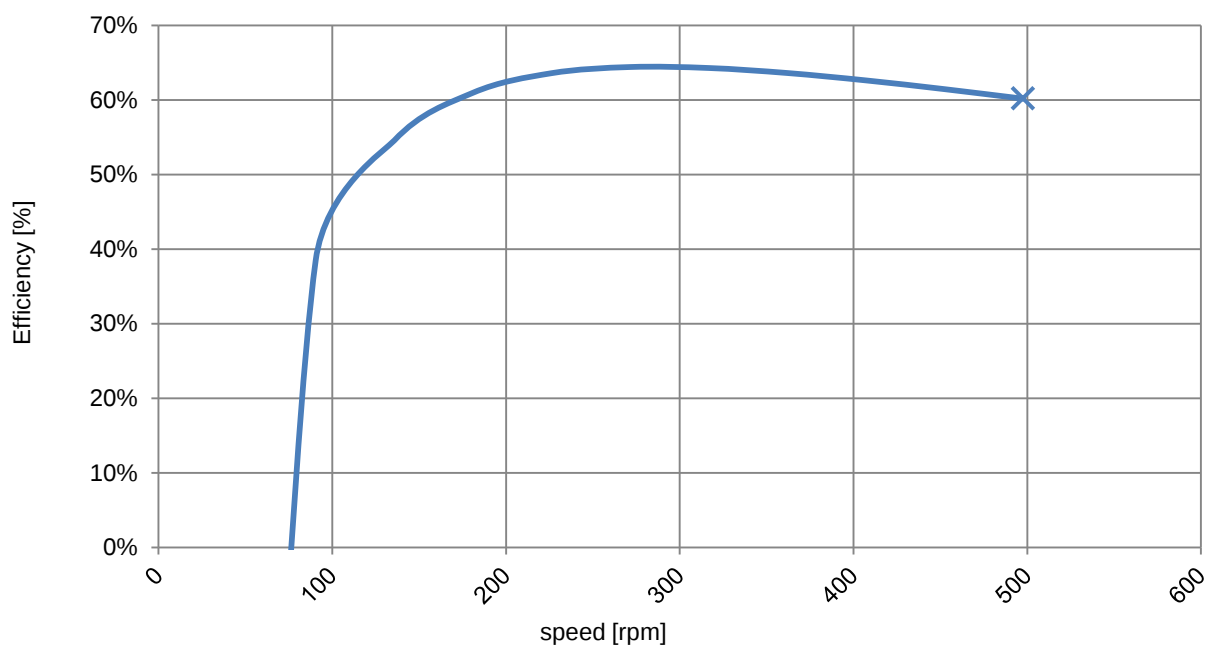
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Efficiency**Efficiency**

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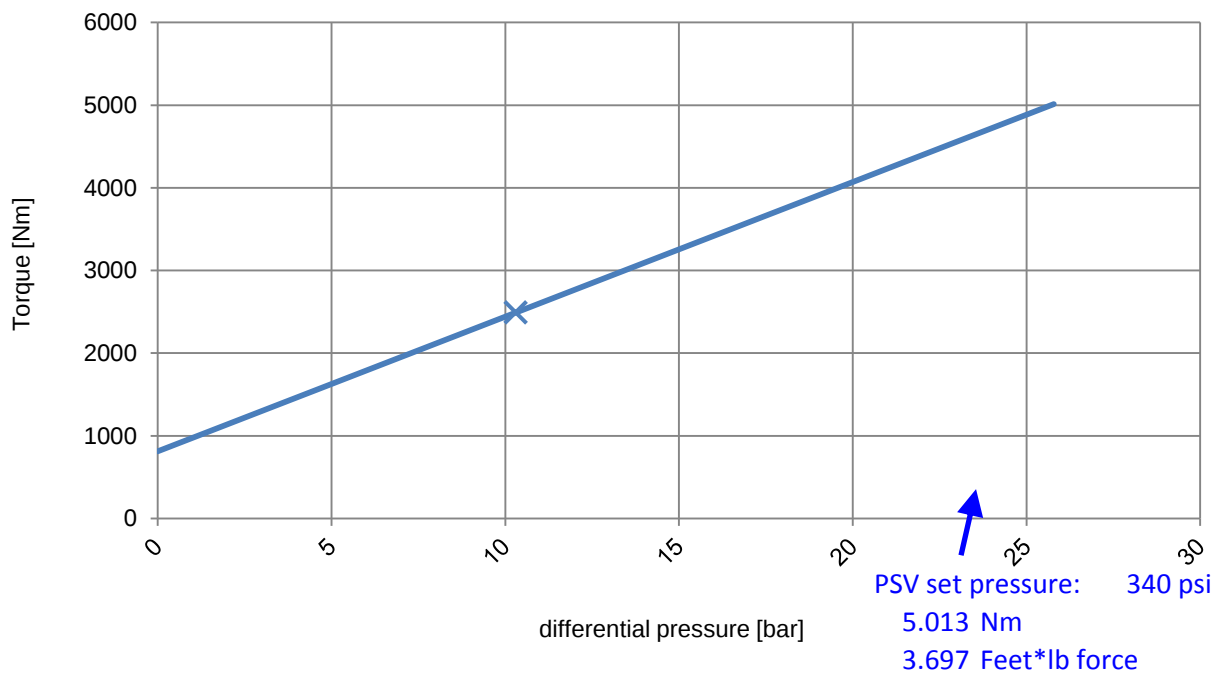
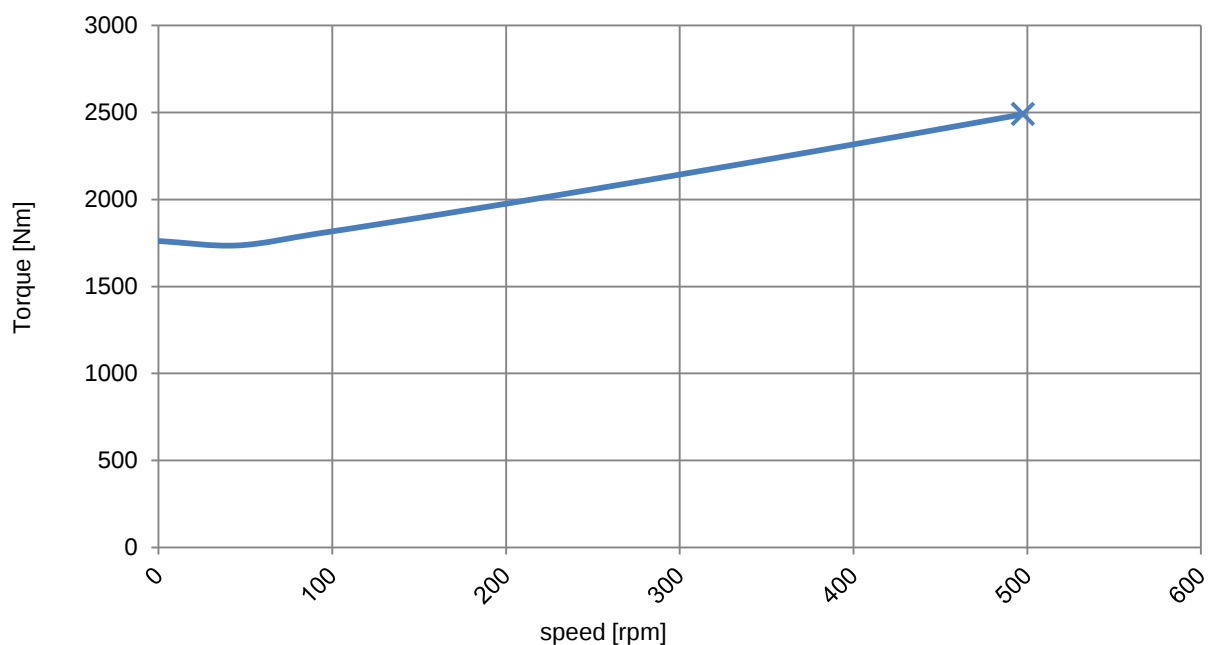
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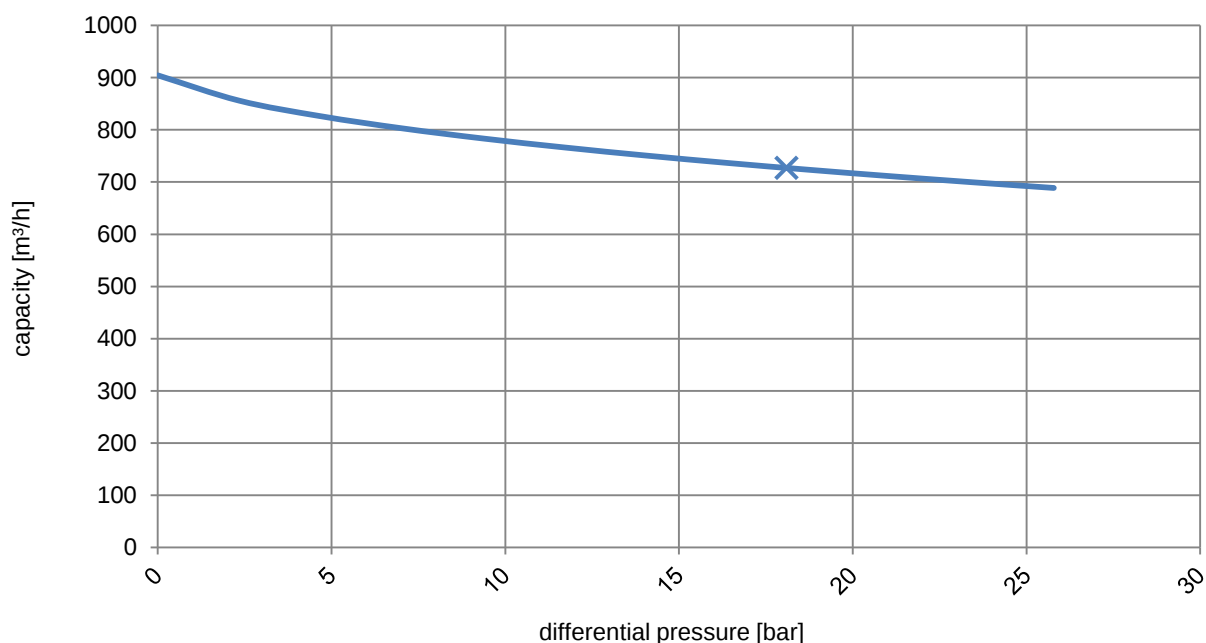
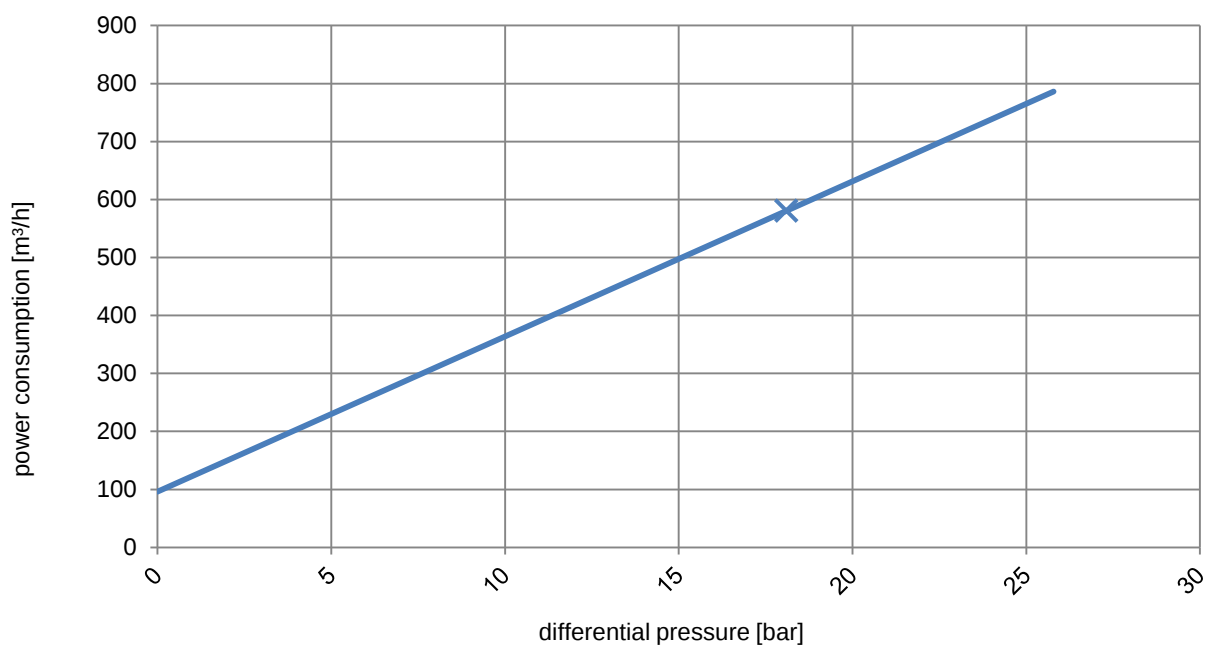
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FLUSH OIL MIXTURE / normal visc / high flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
727	1569	6,8	18,10	580
gpm	rpm	cst	psi	HP
3200	1569	6,8	263	778

Capacity Curve**Absorbed Power Curve**

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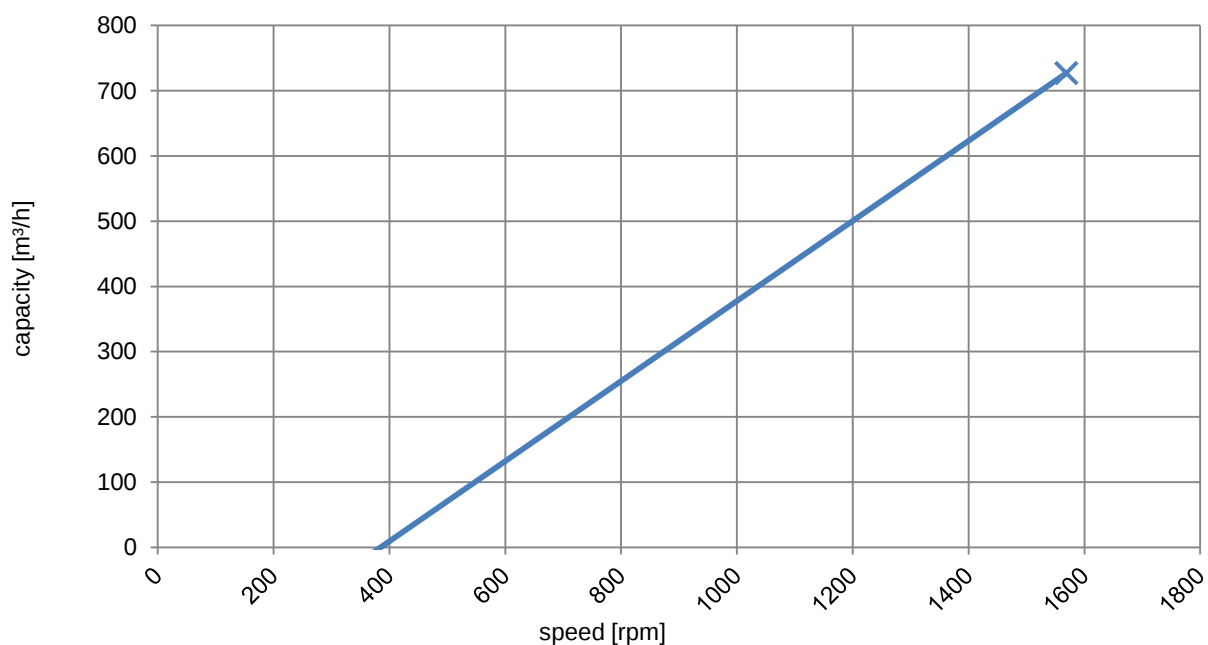
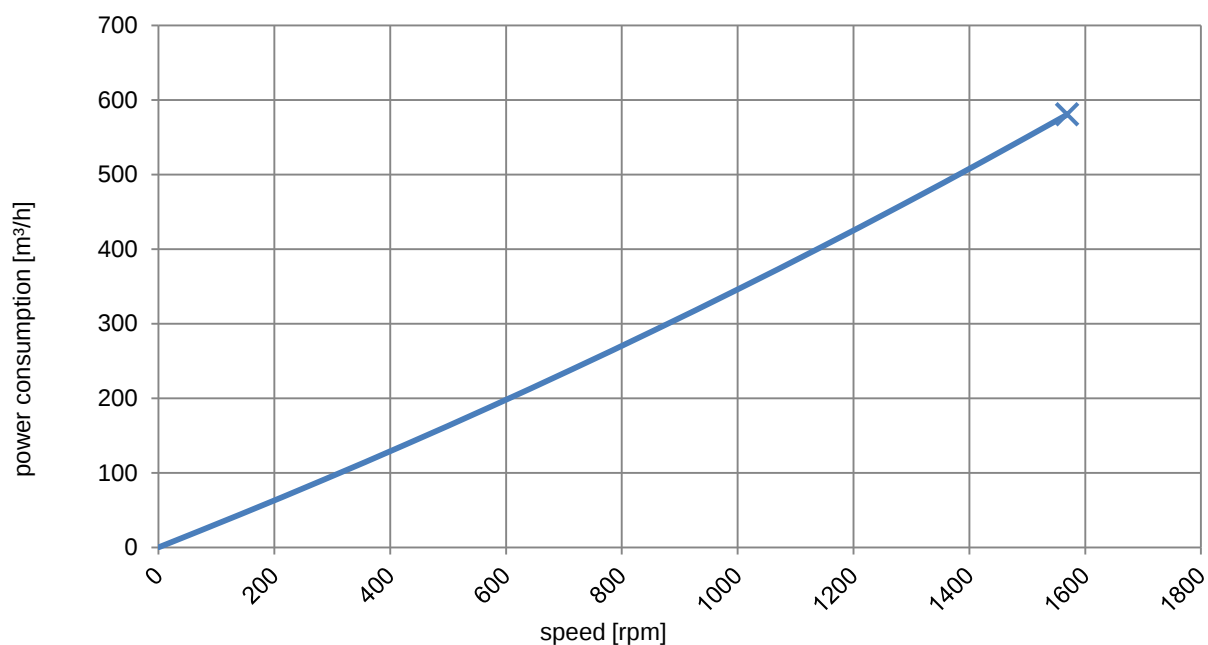
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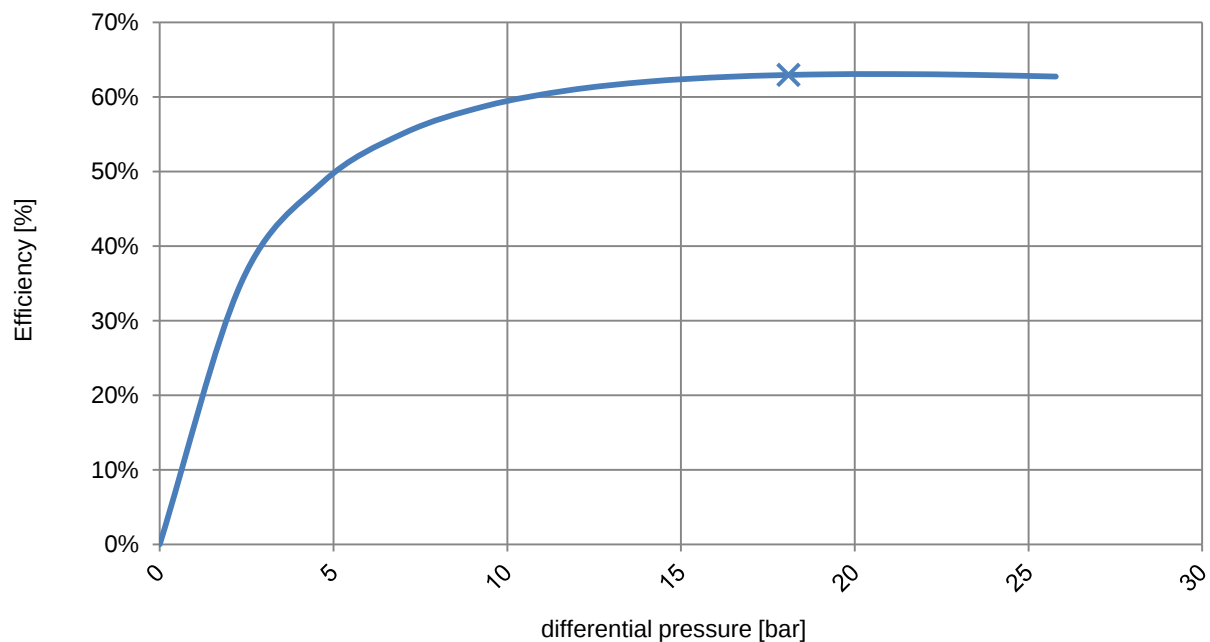
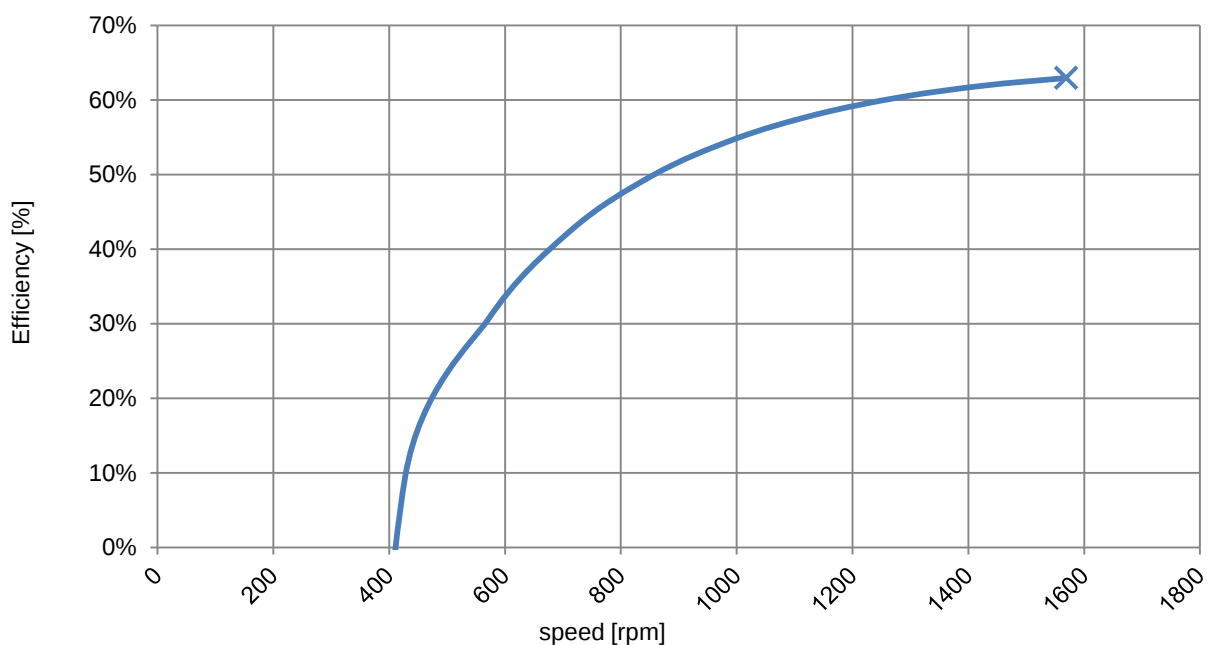
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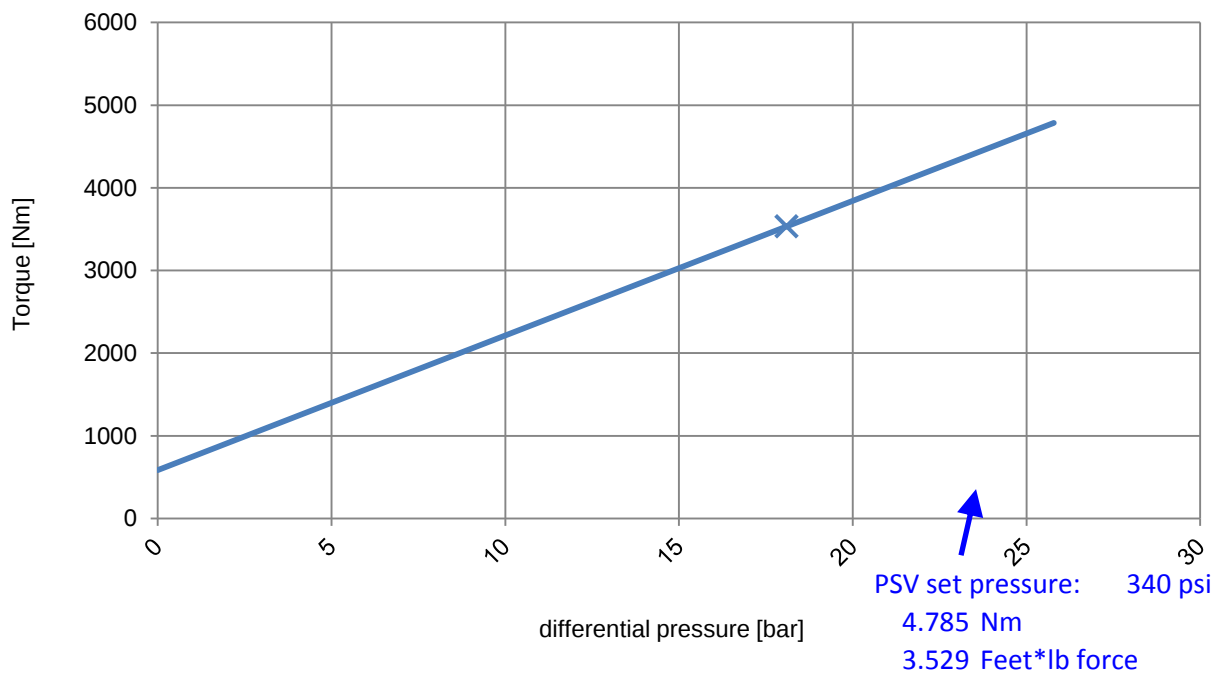
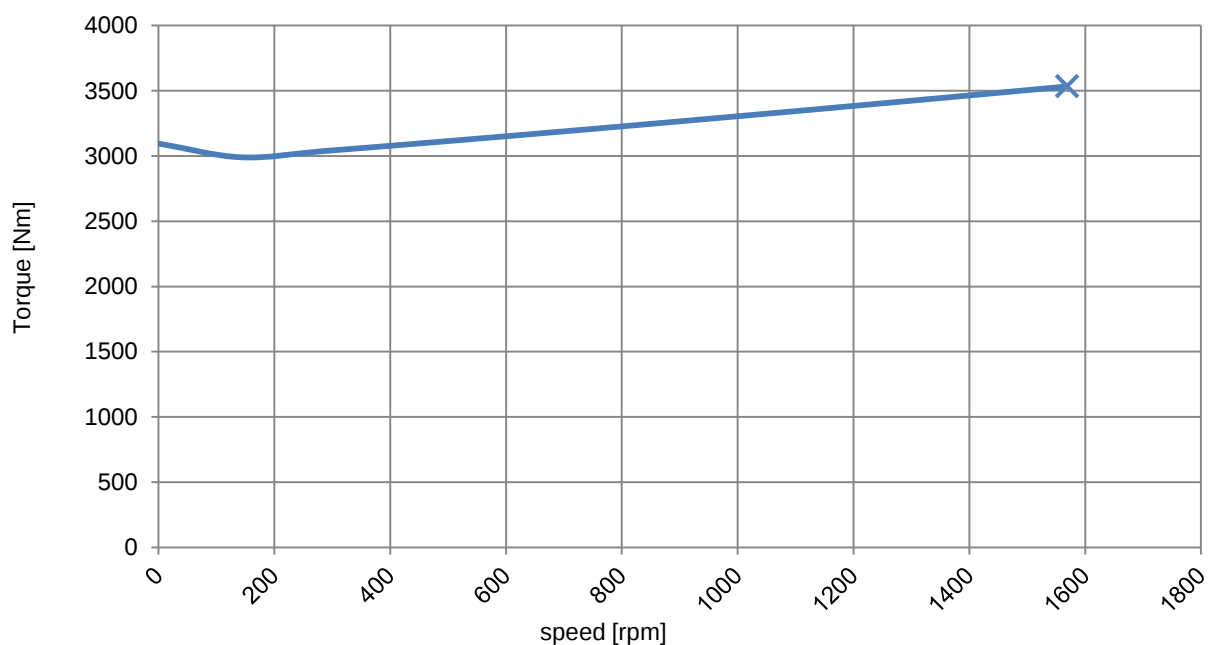
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann**Performance curve
W 9.5zk 89/1

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

FLUSH OIL MIXTURE / normal visc / high flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
727	1569	6,8	18,10	580
gpm	rpm	cst	psi	HP
3200	1569	6,8	263	778

Torque vs. dp**Torque vs. speed**

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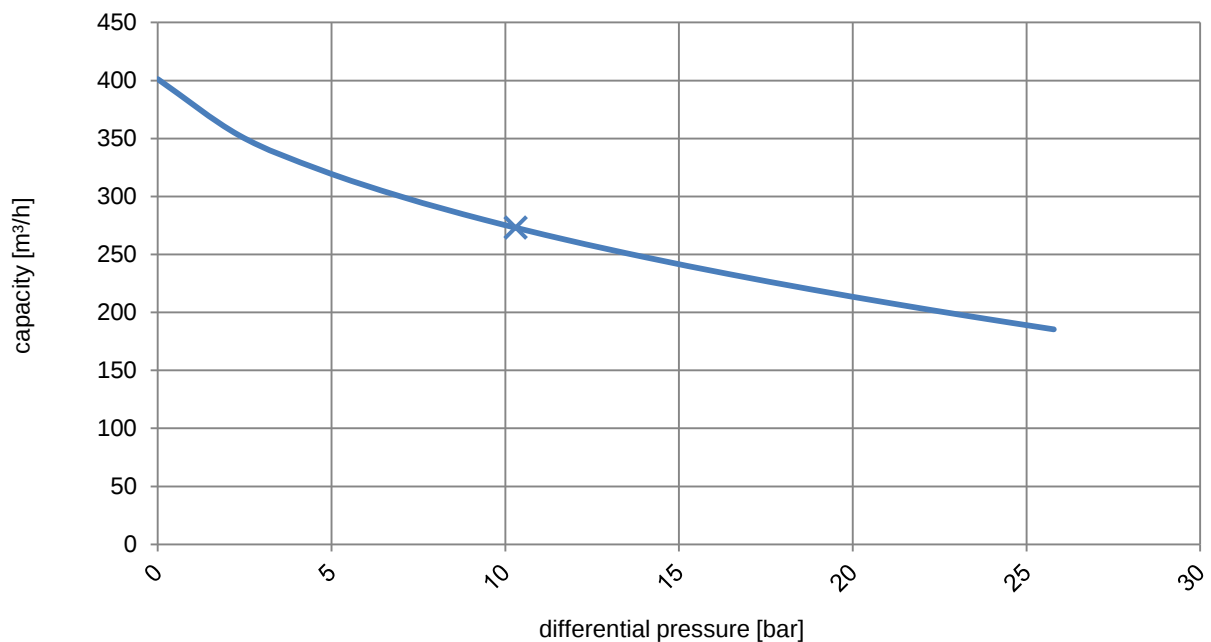
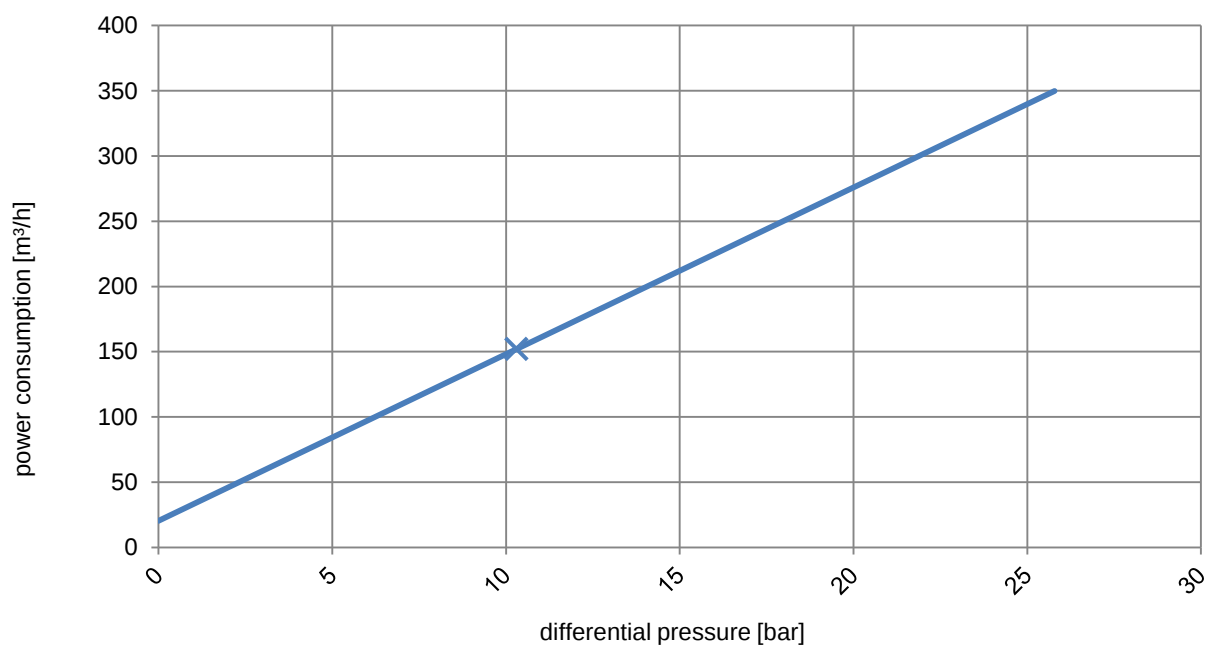
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

FLUSH OIL MIXTURE / normal visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	749	6,8	10,30	152
gpm	rpm	cst	psi	HP
1200	749	6,8	149	204

Capacity Curve**Absorbed Power Curve**

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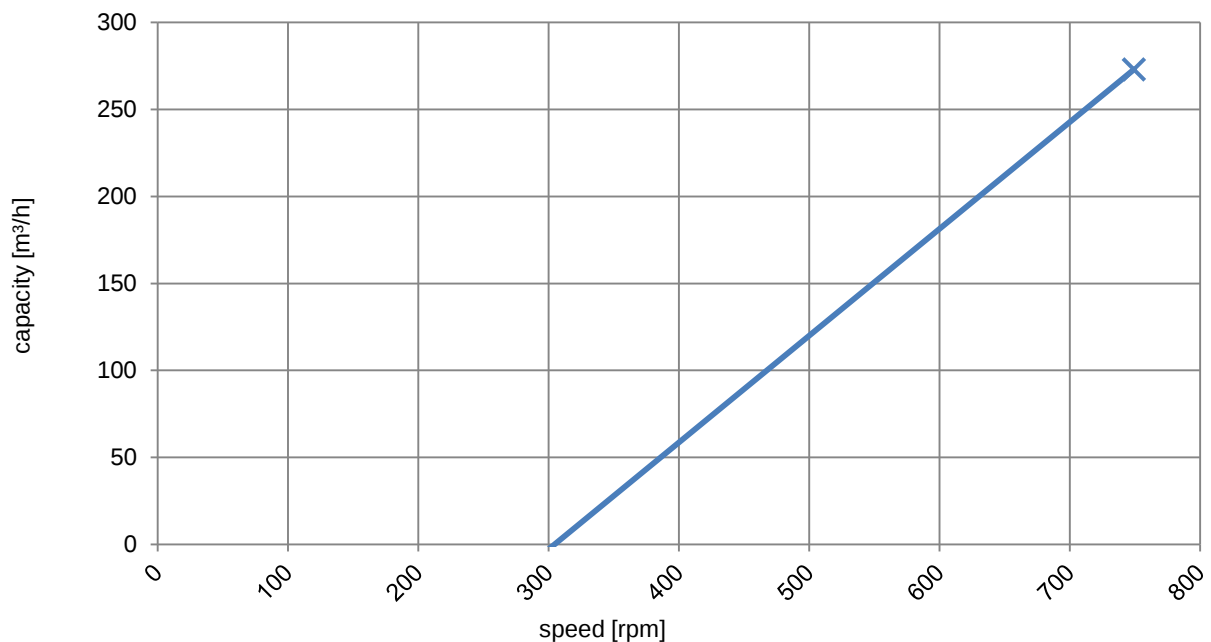
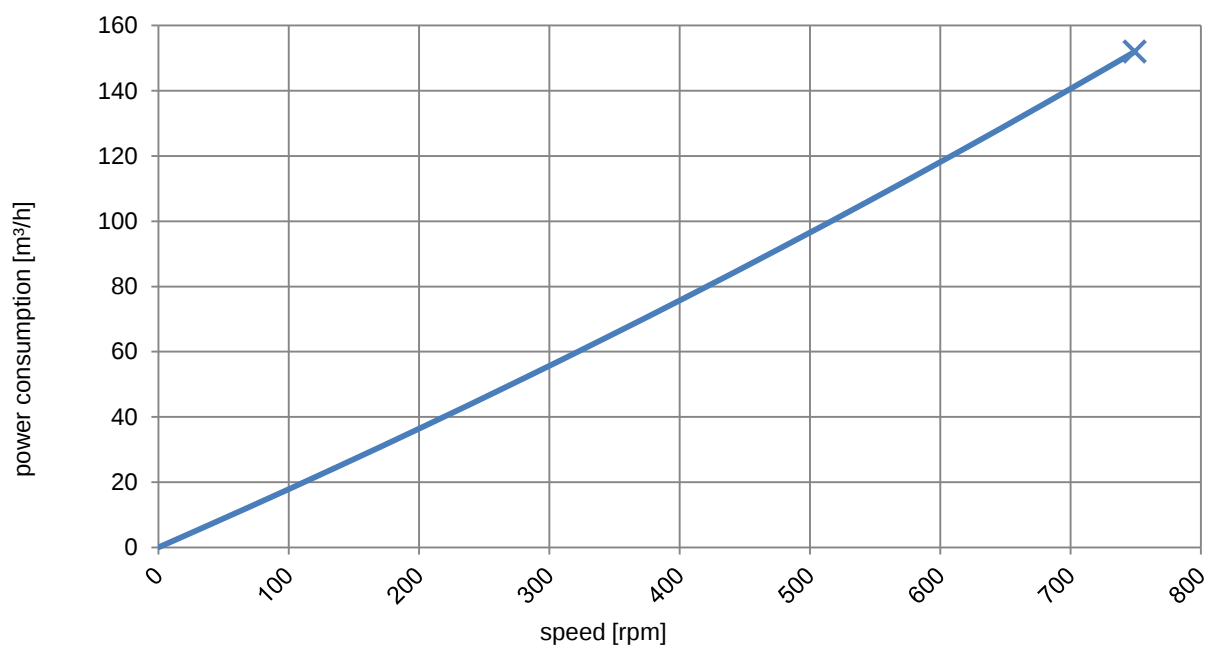
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

FLUSH OIL MIXTURE / normal visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	749	6,8	10,30	152
gpm	rpm	cst	psi	HP
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Capacity Curve**Absorbed Power Curve**

**ITT**

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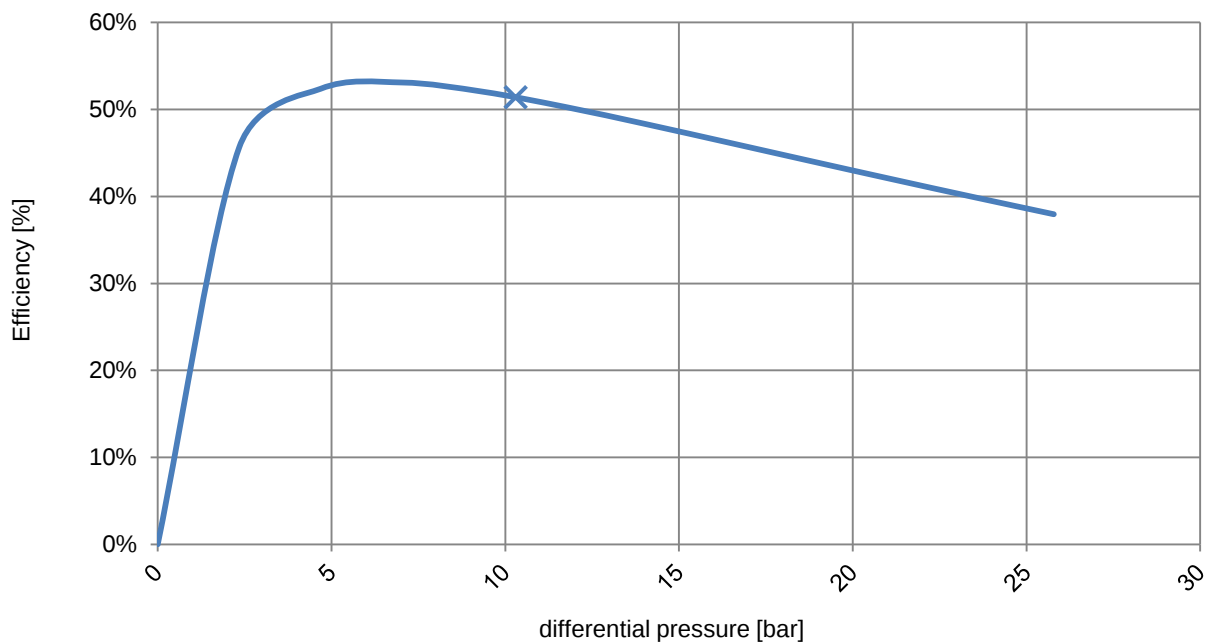
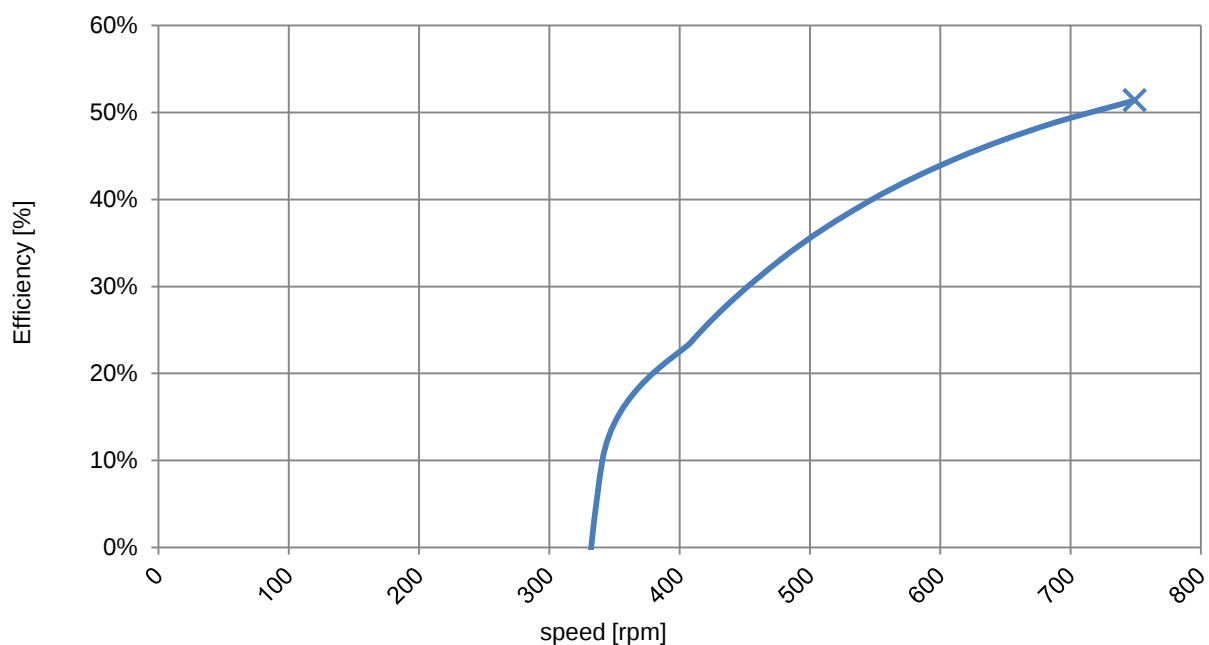
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann**Performance curve
W 9.5zk 89/1

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

FLUSH OIL MIXTURE / normal visc / low flow

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m ³ /h	rpm	cst	bar	kW
273	749	6,8	10,30	152
gpm	rpm	cst	psi	HP
1200	749	6,8	149	204

Efficiency**Efficiency**

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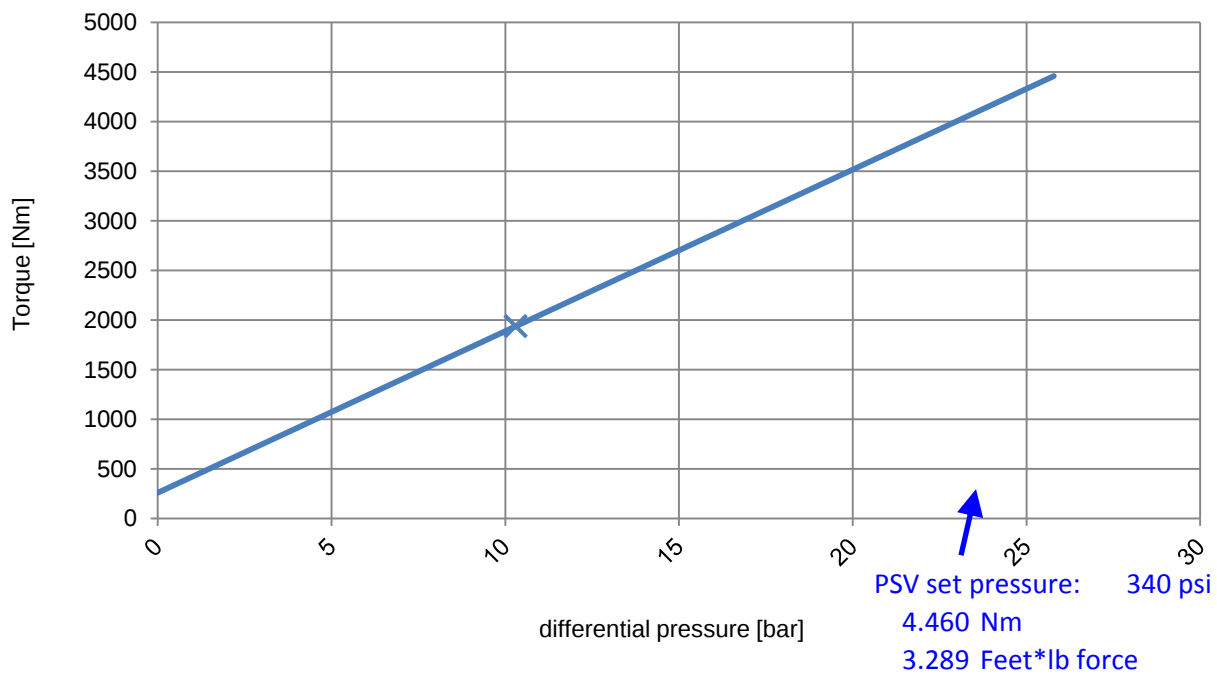
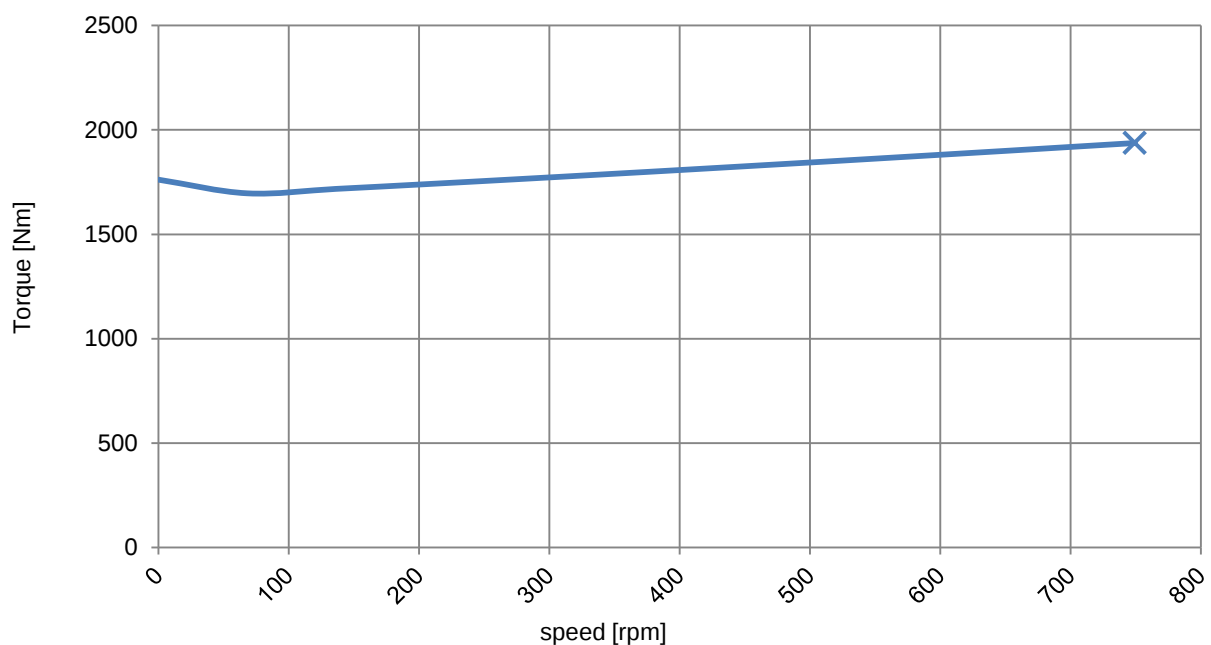
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
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FLUSH OIL MIXTURE / normal visc / low flow

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gpm	rpm	cst	psi	HP
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Torque vs. dp**Torque vs. speed**

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**Bornemann**

Performance curve

W 9.5zk 89/1

date 05.02.2019

expert D. Blatt

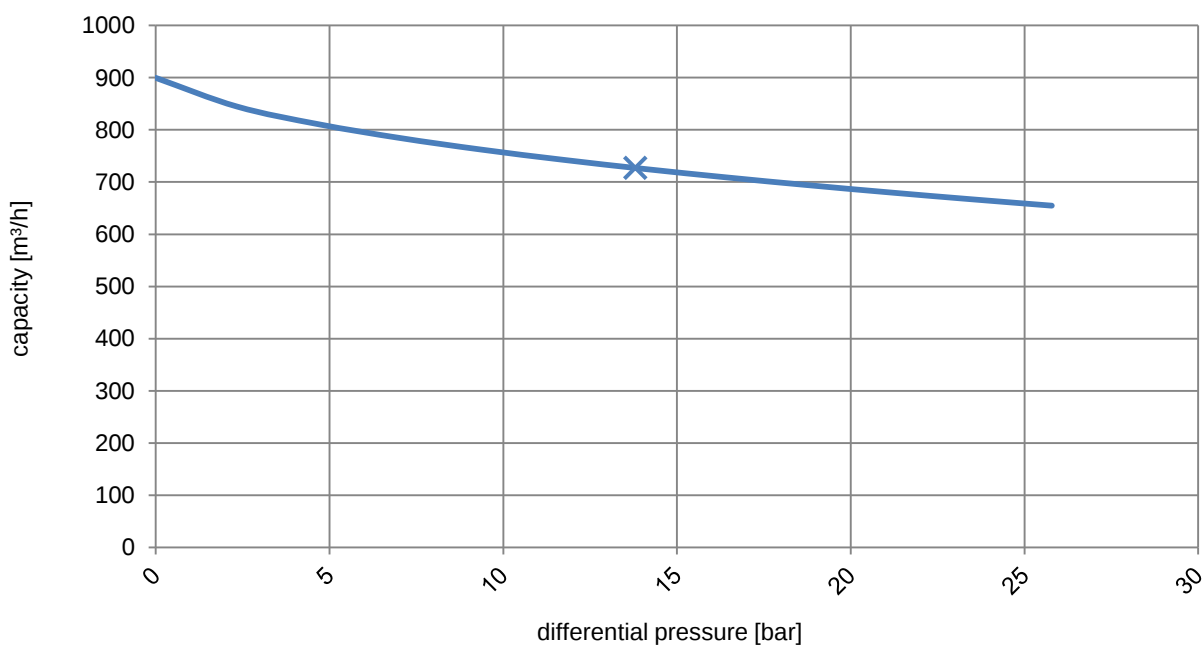
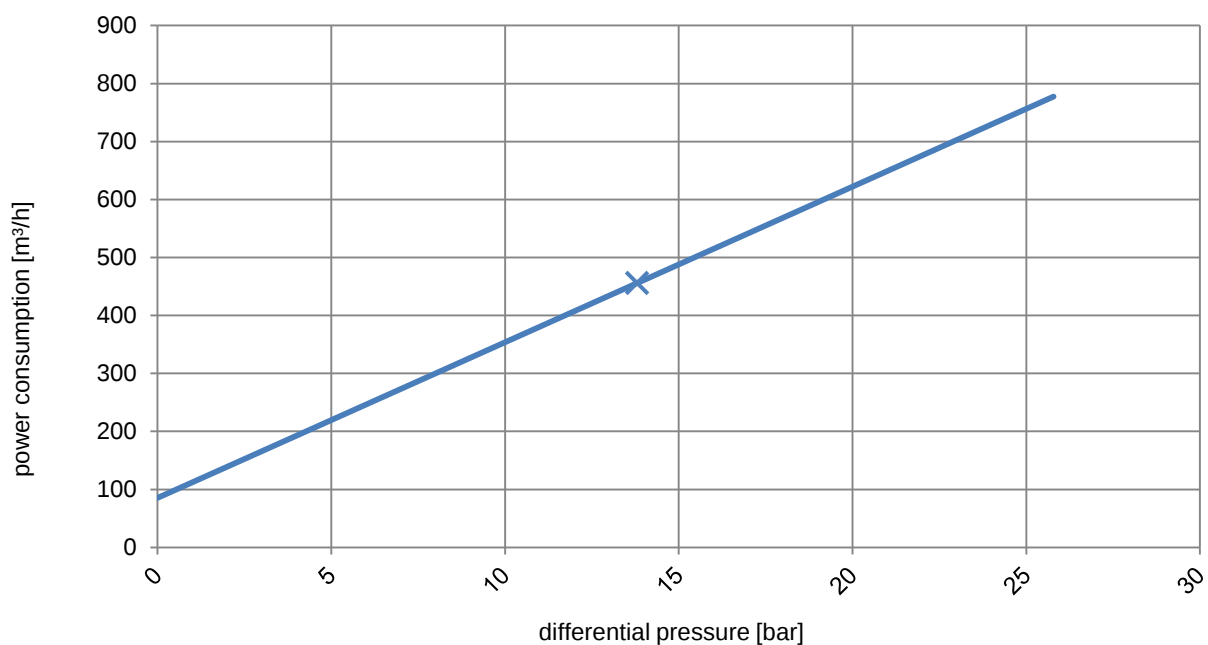
project number -

reference -

revision 000

STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / high flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
727	1574	1,5	13,80	456
gpm	rpm	cst	psi	HP
3200	1574	1,5	200	611

Capacity Curve**Absorbed Power Curve**

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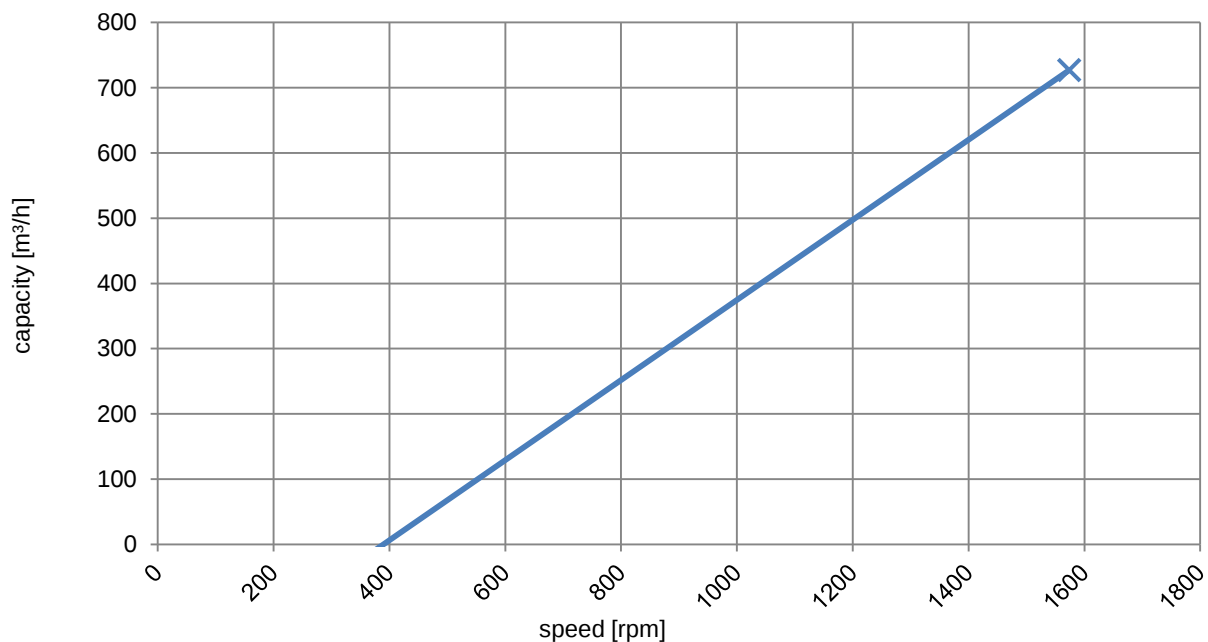
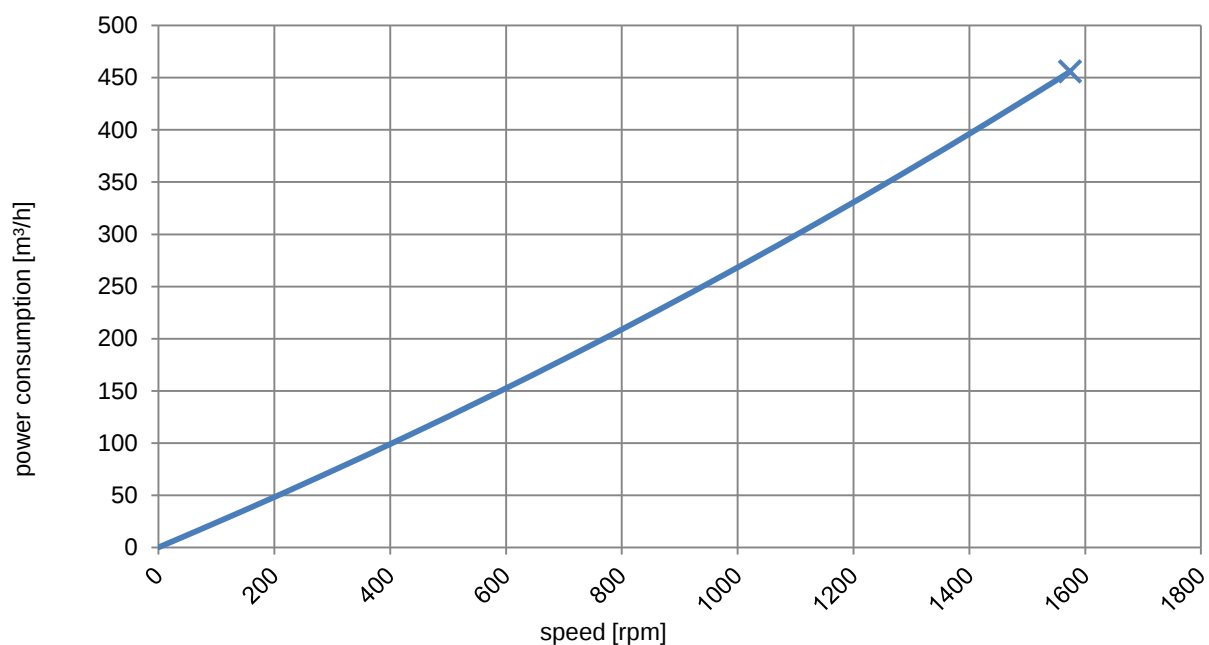
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
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STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / high flow

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m ³ /h	rpm	cst	bar	kW
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Capacity Curve**Absorbed Power Curve**

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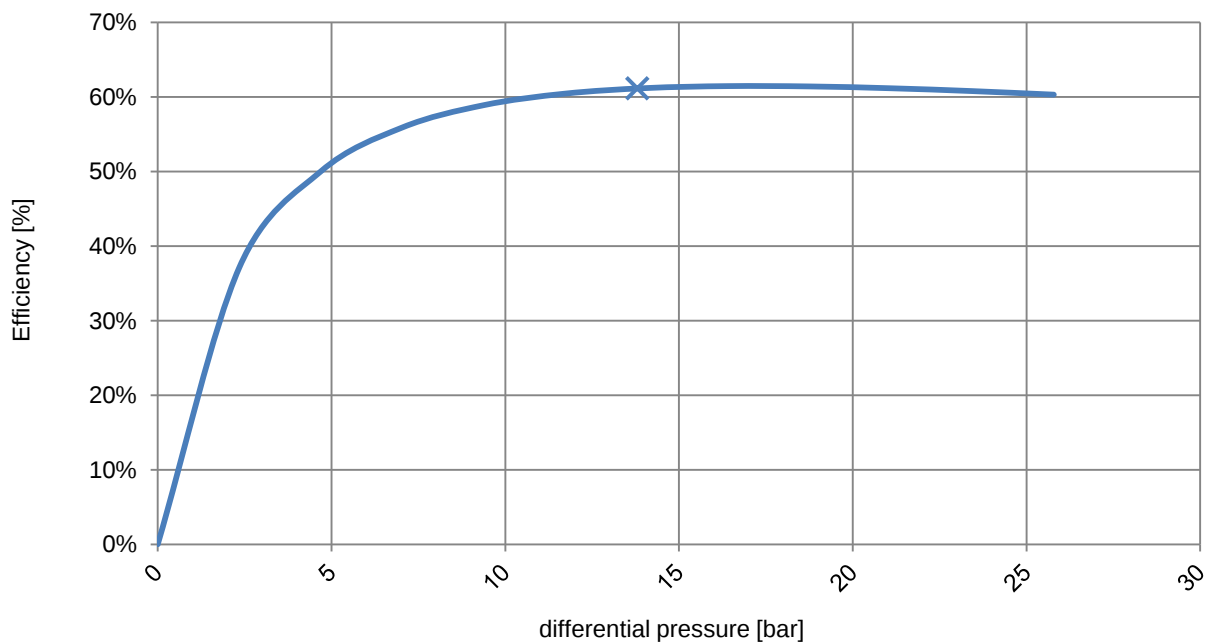
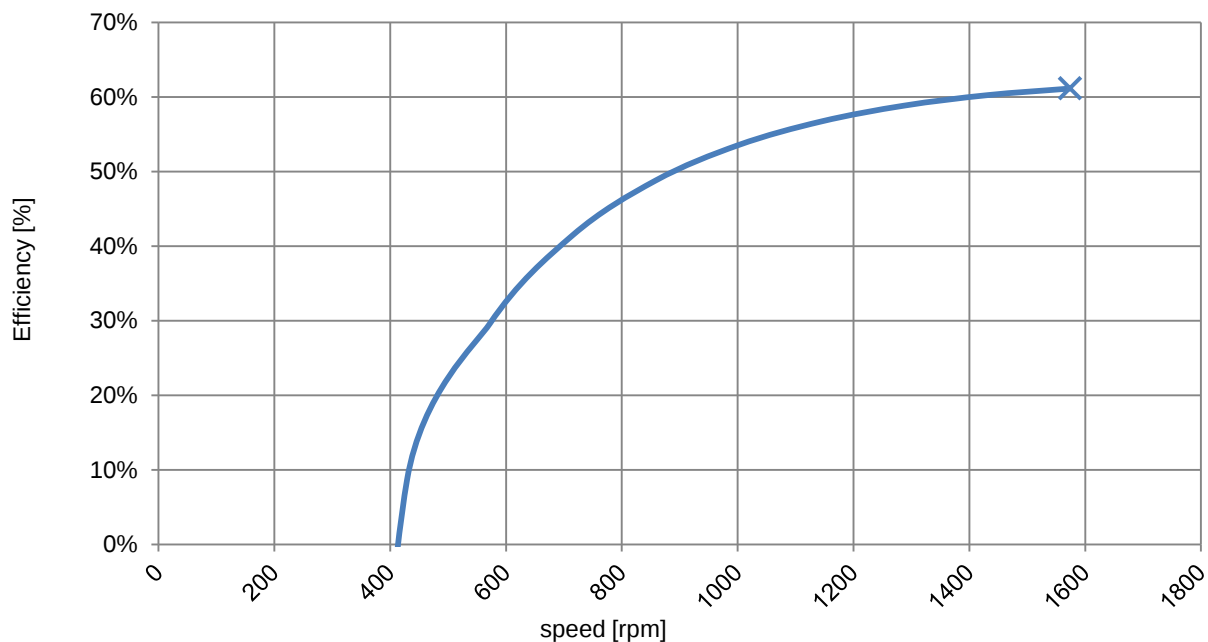
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

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gpm	rpm	cst	psi	HP
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Efficiency**Efficiency**

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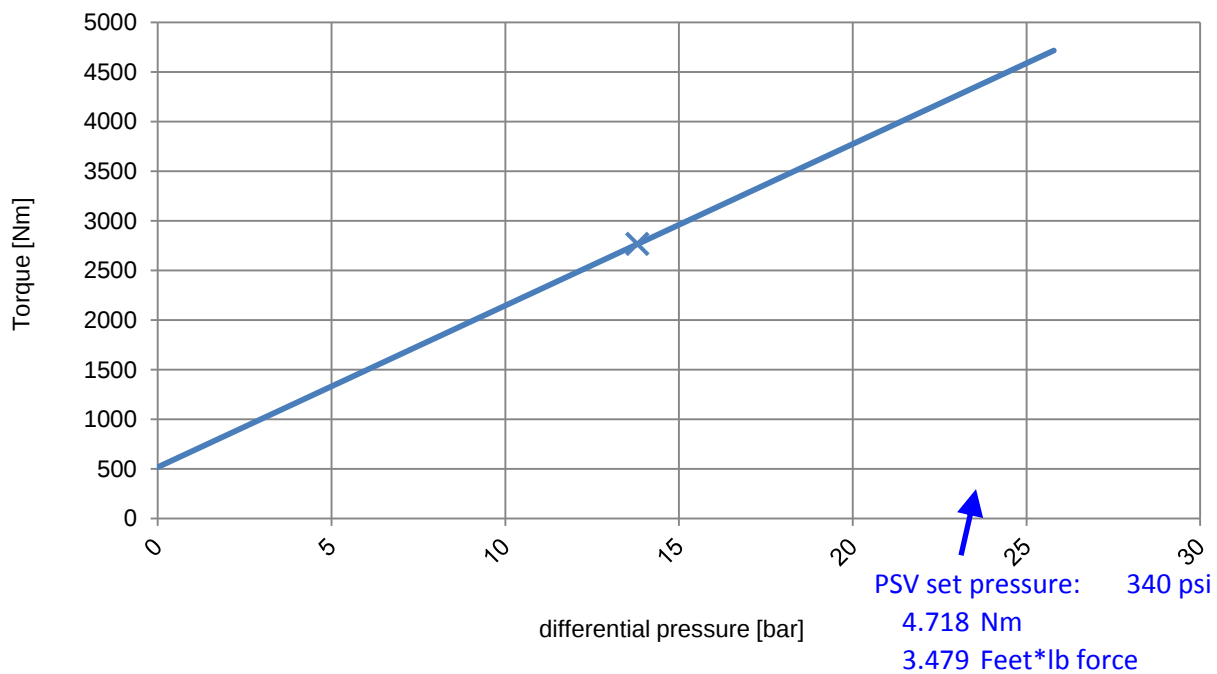
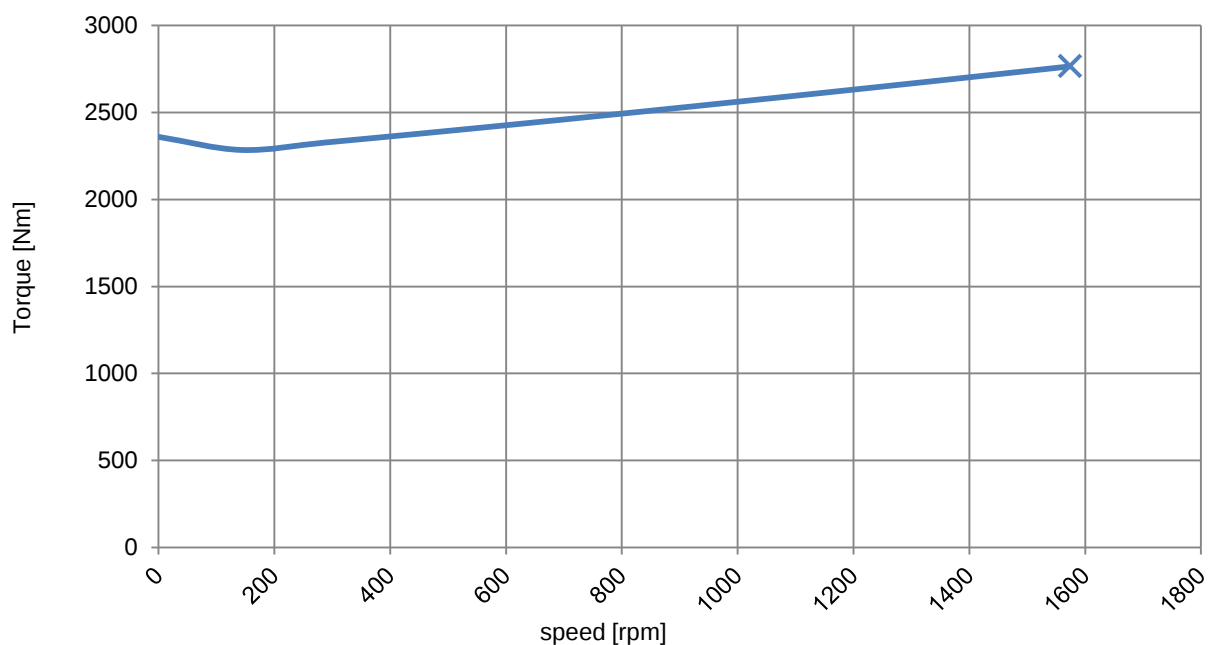
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

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gpm	rpm	cst	psi	HP
3200	1574	1,5	200	611

Torque vs. dp**Torque vs. speed**

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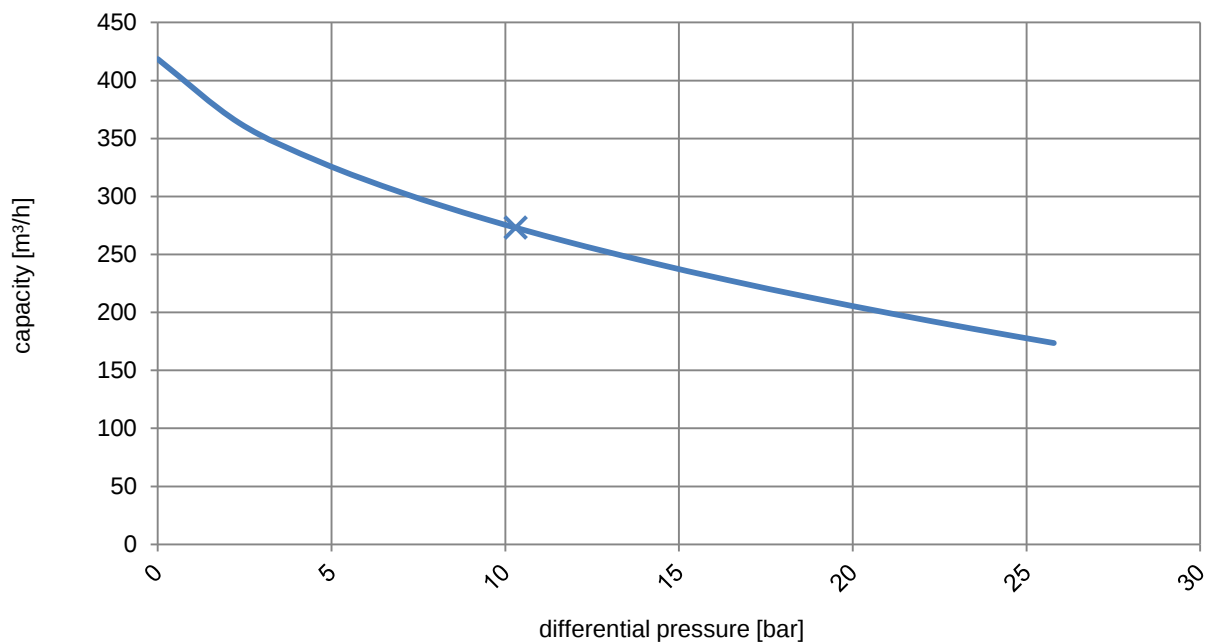
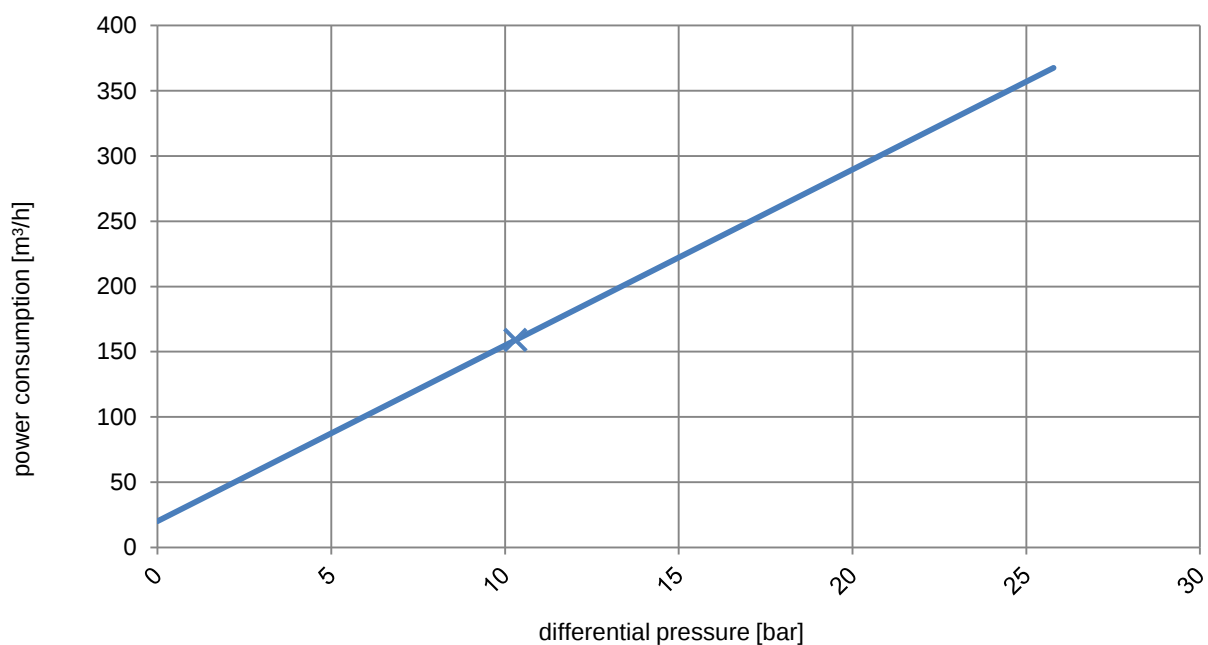
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	790	1,5	10,30	159
gpm	rpm	cst	psi	HP
1200	790	1,5	149	213

Capacity Curve**Absorbed Power Curve**

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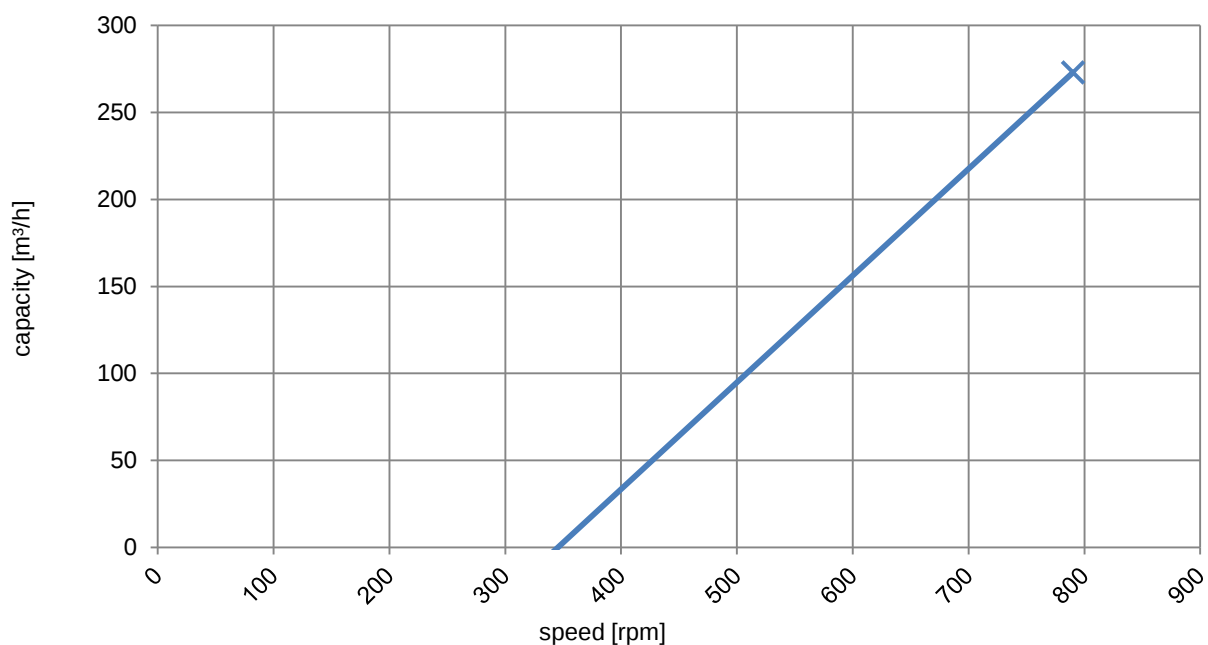
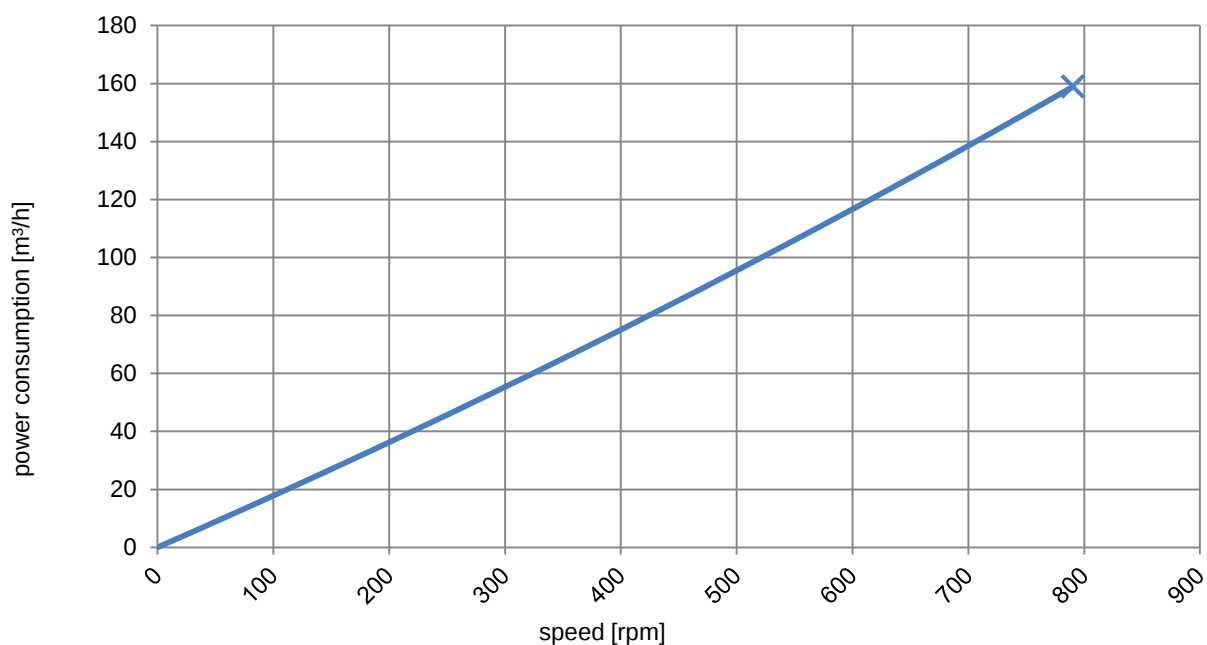
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
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revision	000

STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / low flow

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m ³ /h	rpm	cst	bar	kW
273	790	1,5	10,30	159
gpm	rpm	cst	psi	HP
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Capacity Curve**Absorbed Power Curve**

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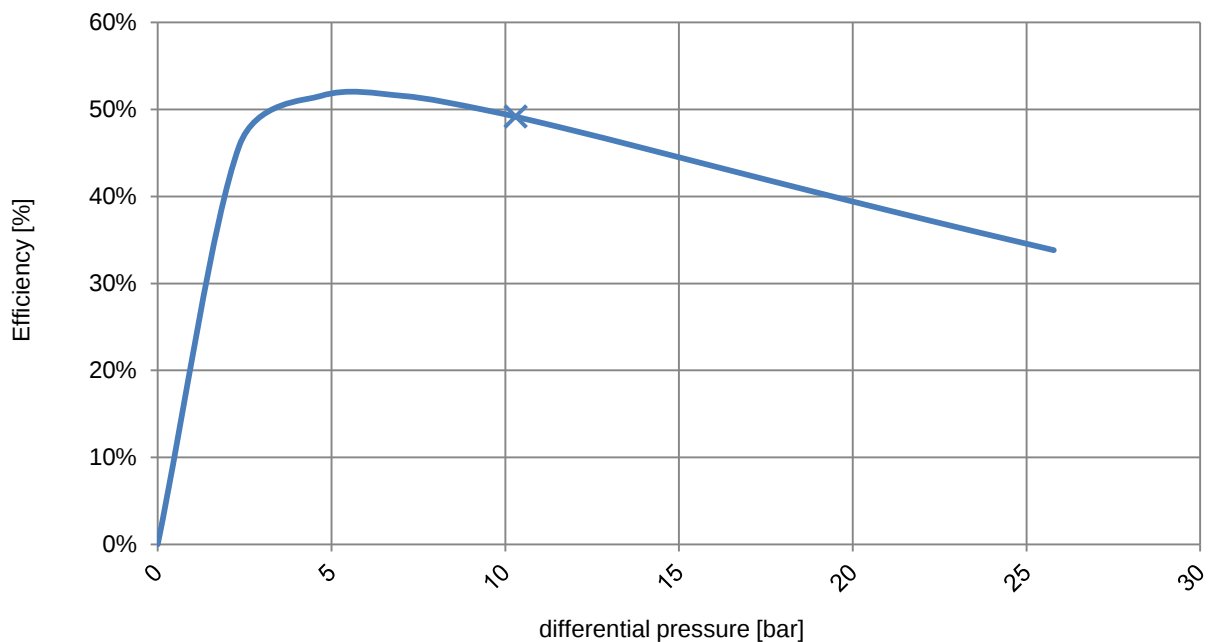
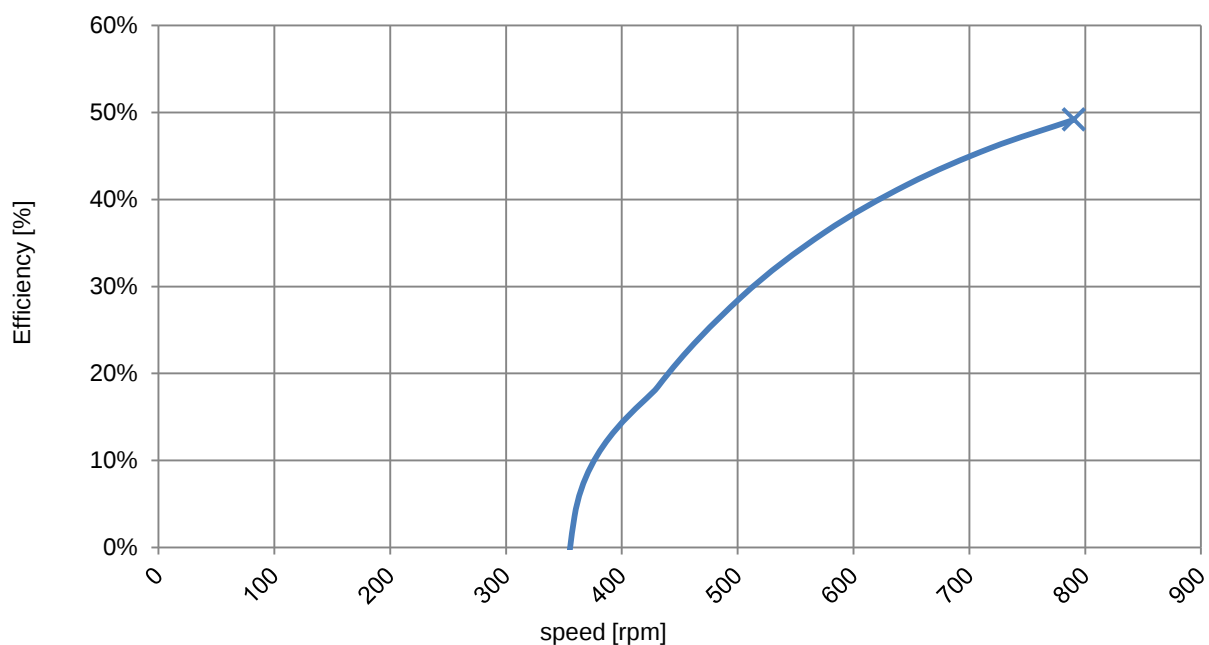
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
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revision	000

STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / low flow

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gpm	rpm	cst	psi	HP
1200	790	1,5	149	213

Efficiency**Efficiency**

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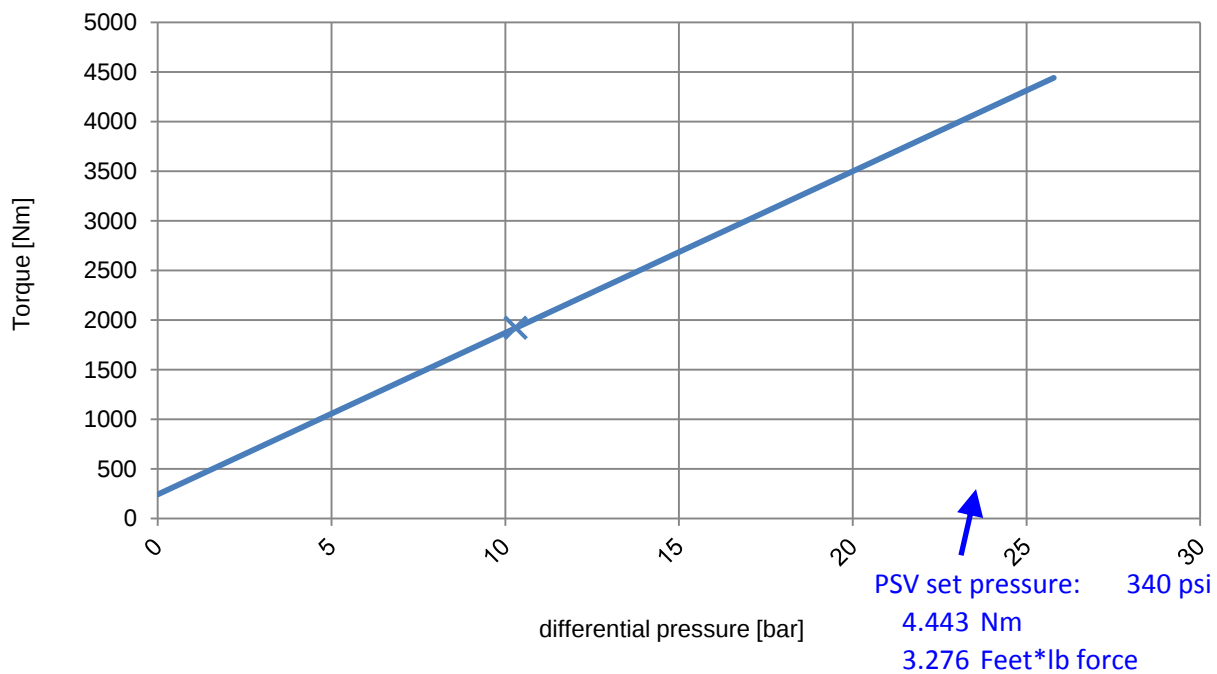
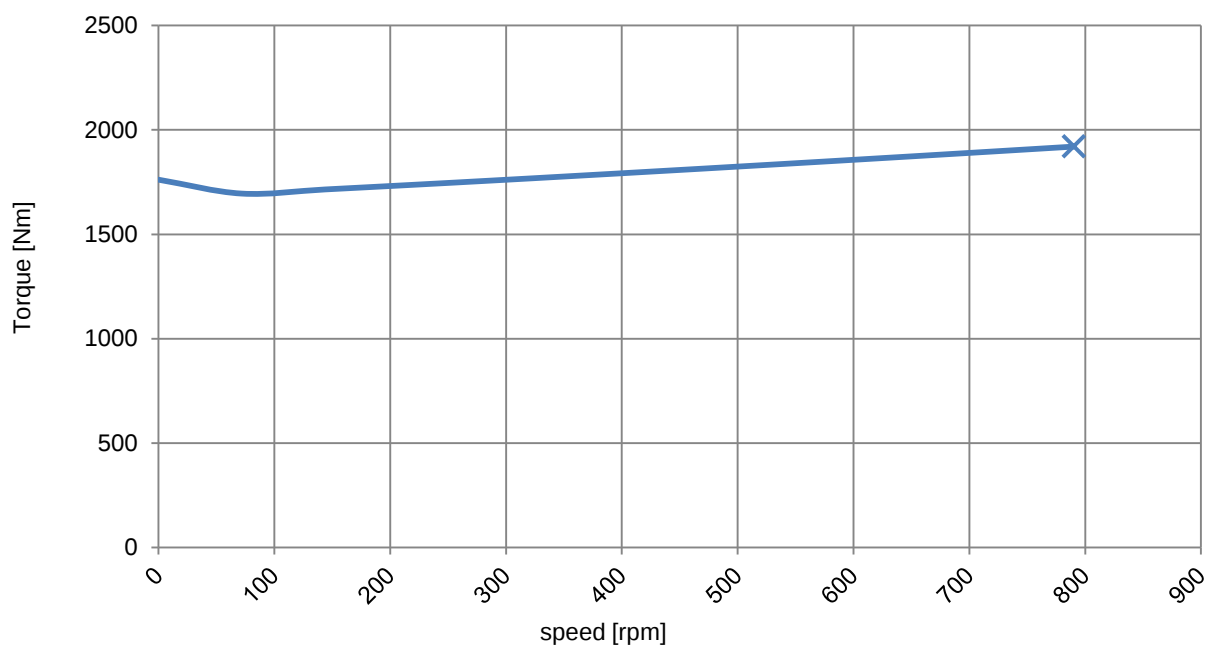
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
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STARTUP + STARTUP DU1 RES. + MAINT. LFD / normal visc / low flow

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Torque vs. dp**Torque vs. speed**

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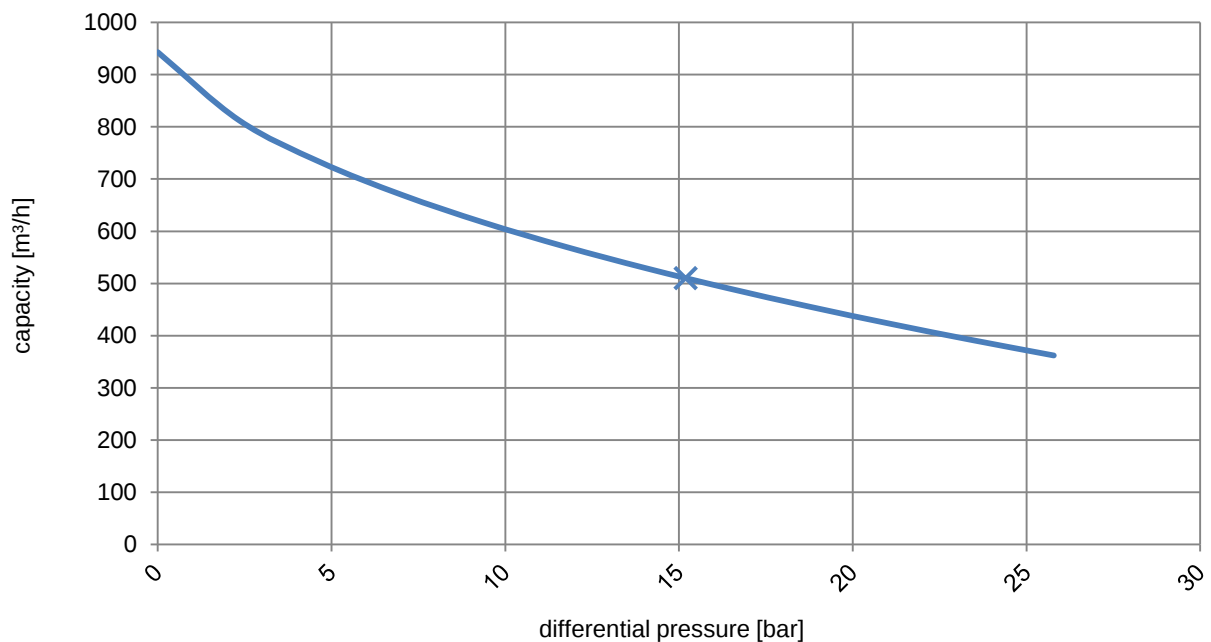
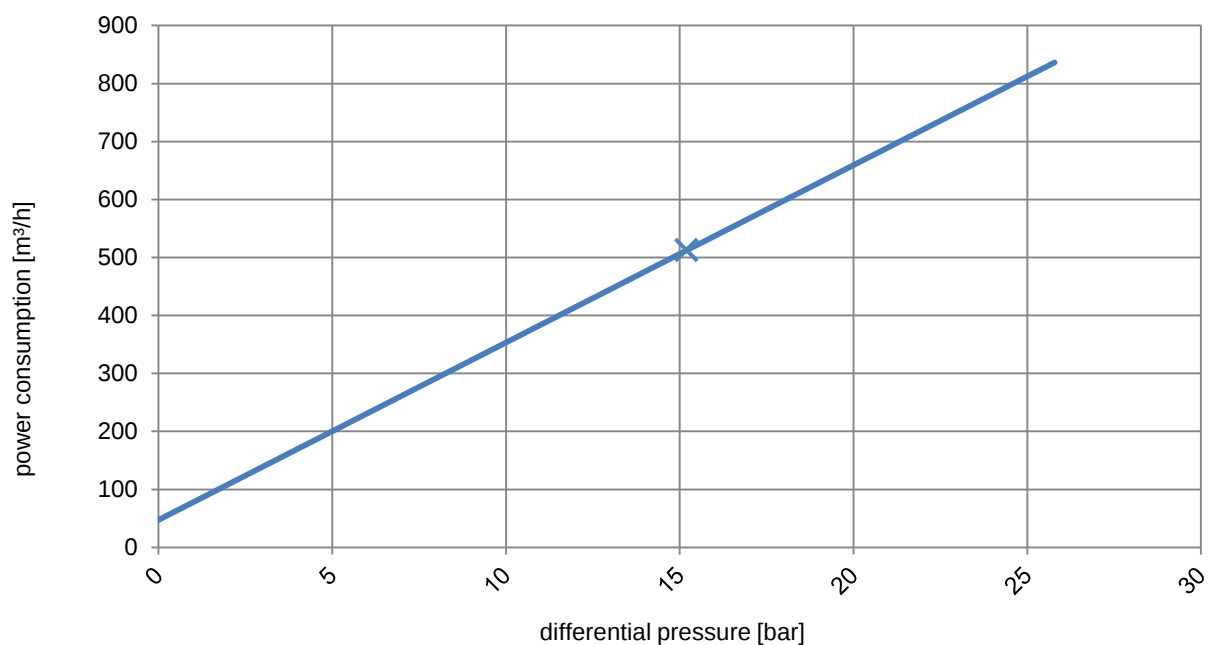
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

MAINT. LFD / low visc / high flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
510	1794	0,6	15,20	512
gpm	rpm	cst	psi	HP
2250	1794	0,6	220	687

Capacity Curve**Absorbed Power Curve**

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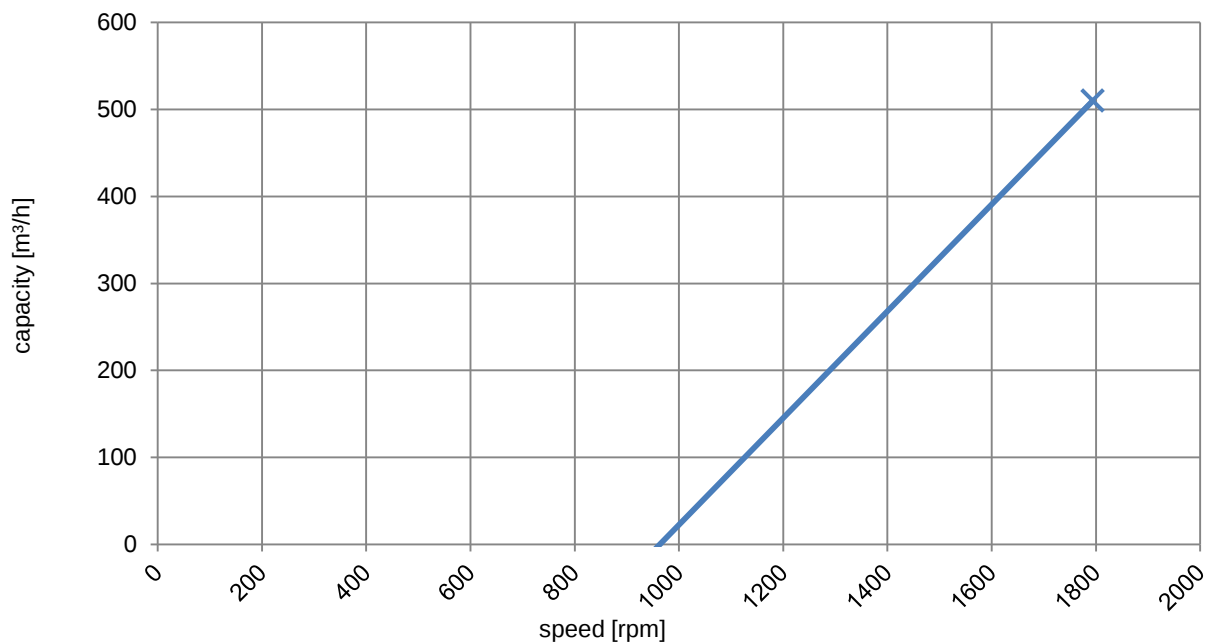
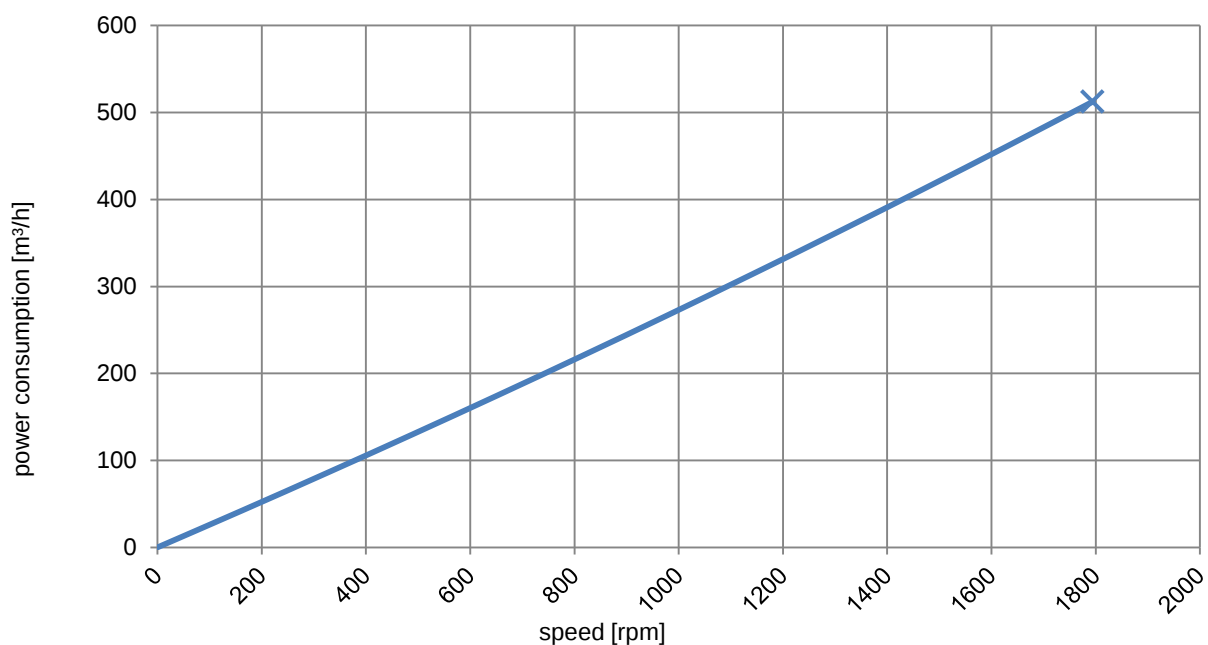
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve**
W 9.5zk 89/1

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

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Capacity Curve**Absorbed Power Curve**

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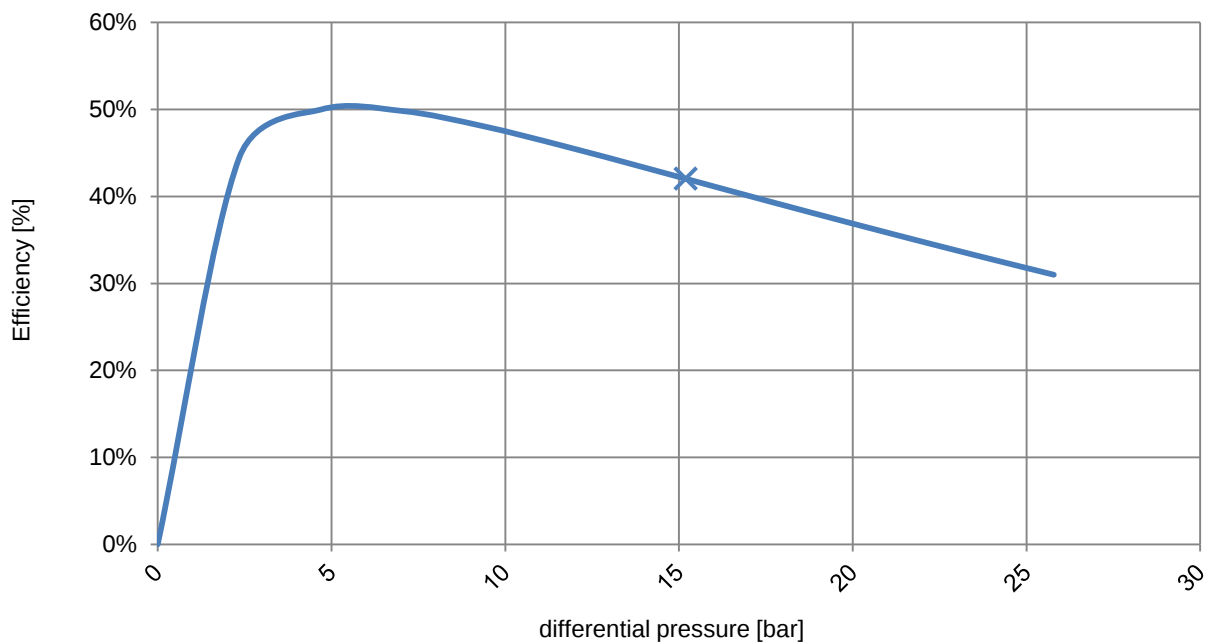
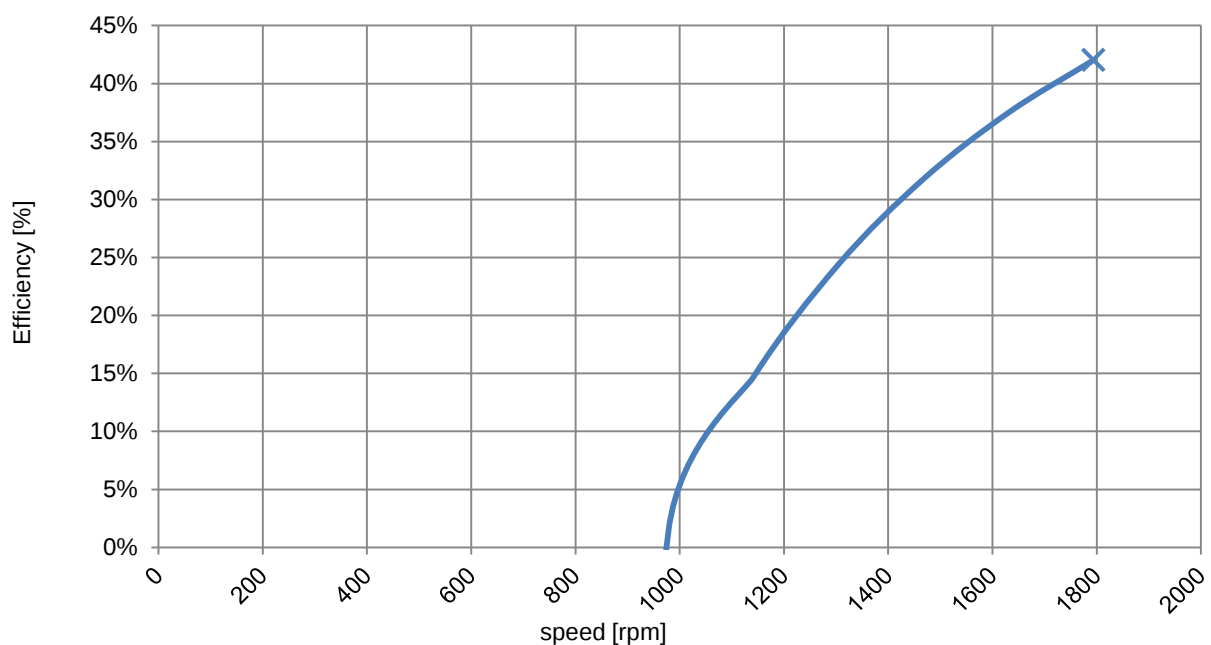
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

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m ³ /h	rpm	cst	bar	kW
510	1794	0,6	15,20	512
gpm	rpm	cst	psi	HP
2250	1794	0,6	220	687

Efficiency**Efficiency**

**ITT**

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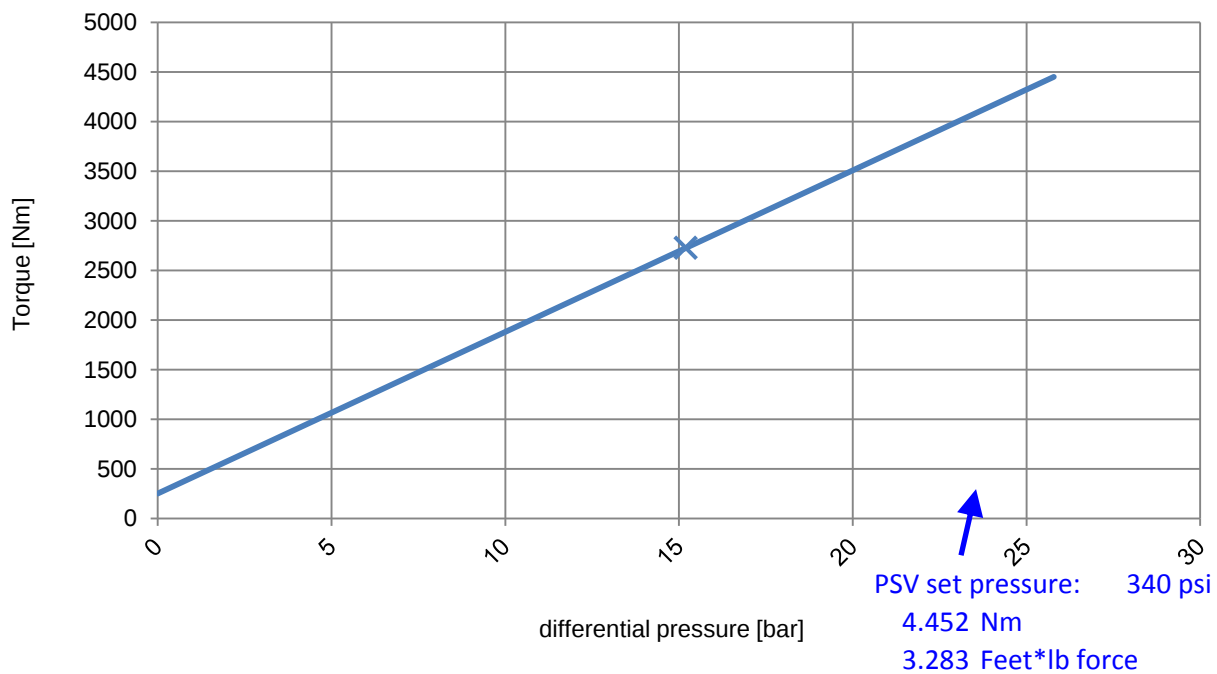
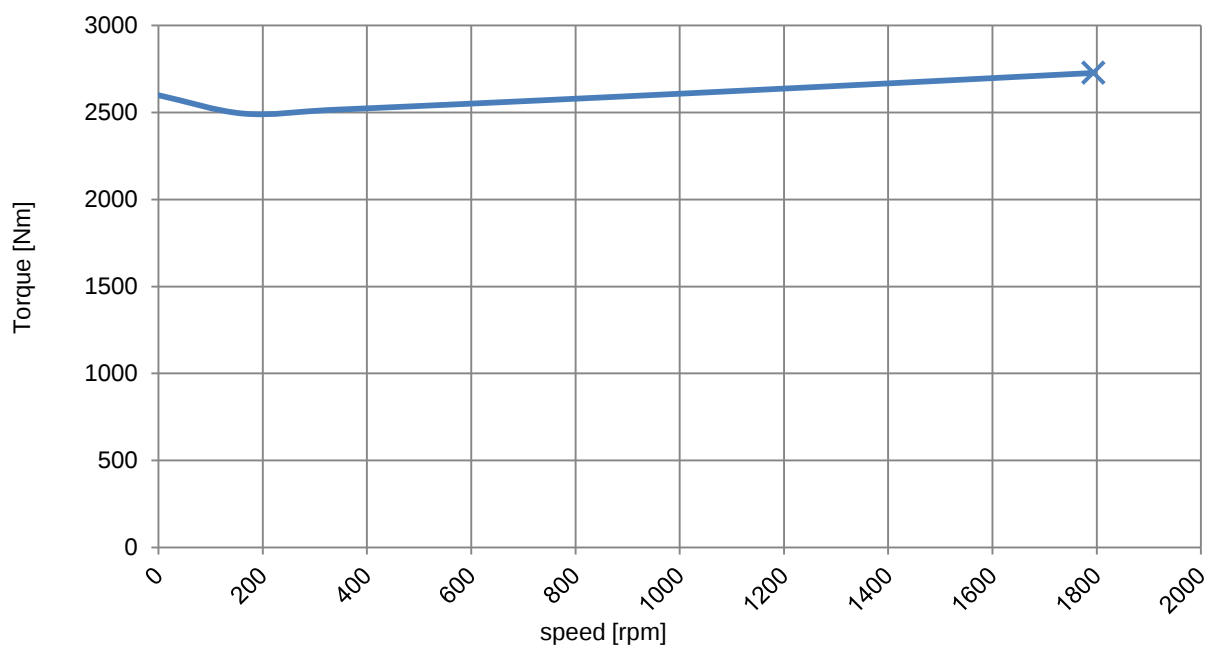
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
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project number	-
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revision	000

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gpm	rpm	cst	psi	HP
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Torque vs. dp**Torque vs. speed**

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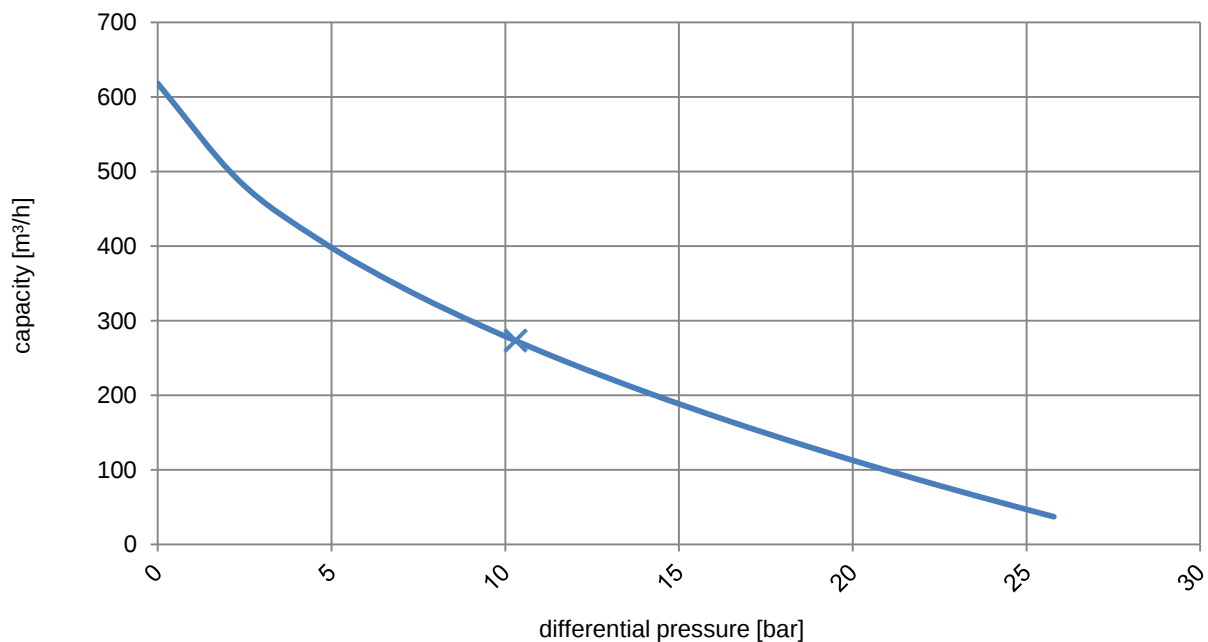
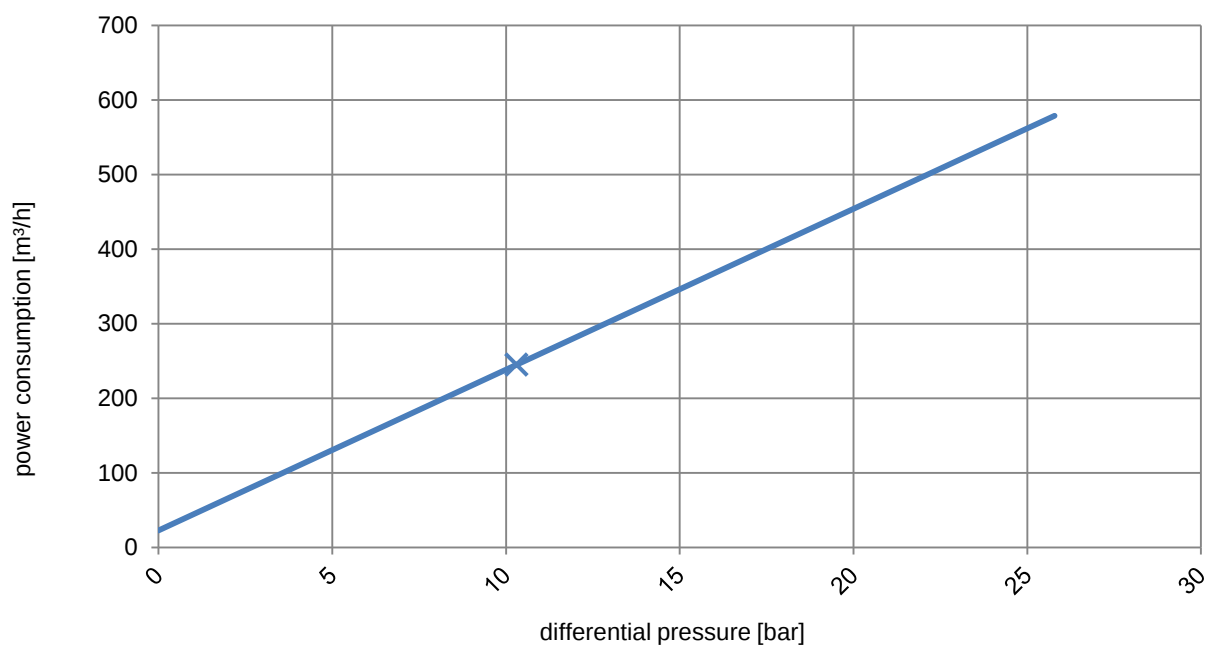
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve**
W 9.5zk 89/1

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

MAINT. LFD / low visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	1265	0,6	10,30	245
gpm	rpm	cst	psi	HP
1200	1265	0,6	149	328

Capacity Curve**Absorbed Power Curve**

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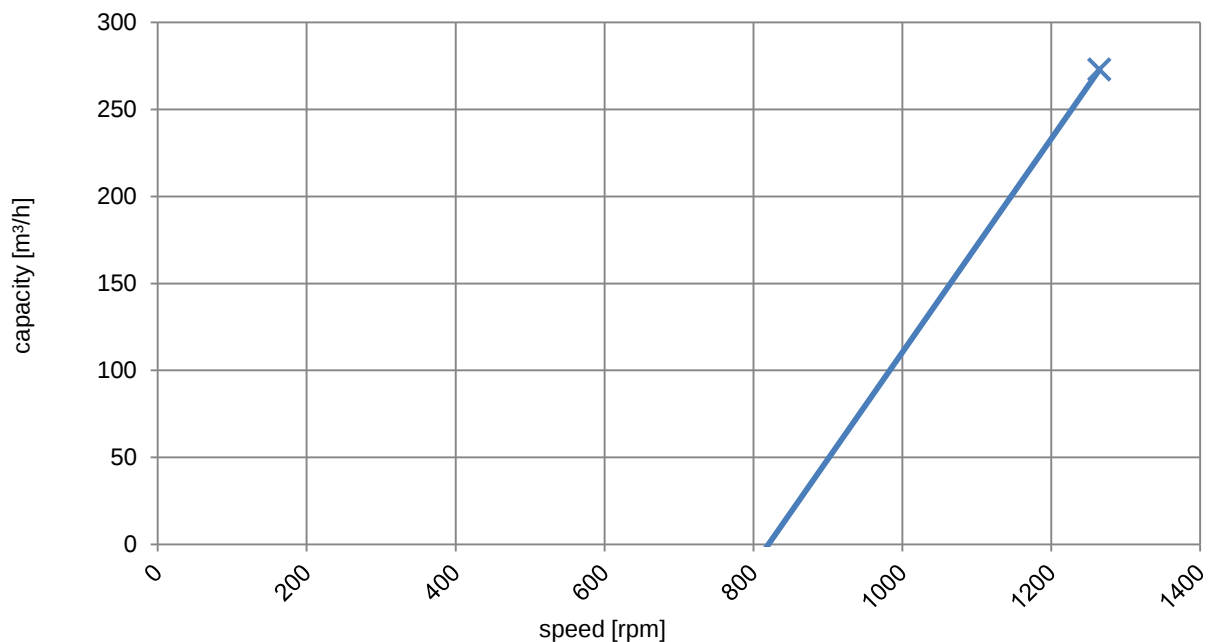
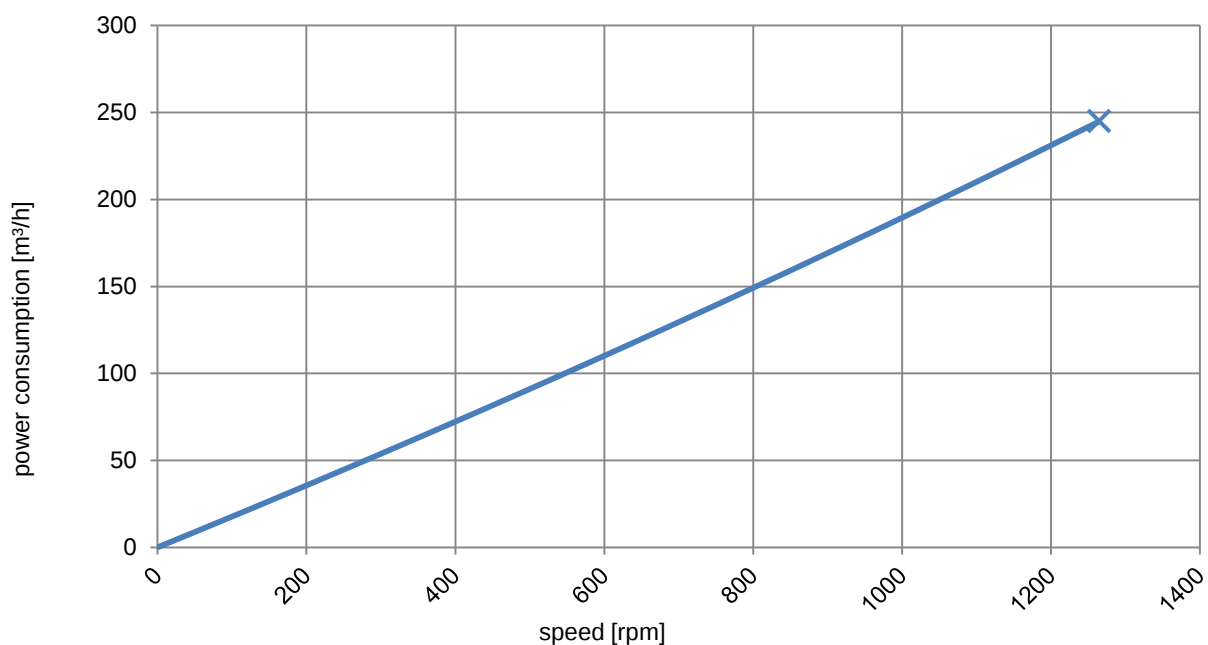
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**B Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

MAINT. LFD / low visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	1265	0,6	10,30	245
gpm	rpm	cst	psi	HP
1200	1265	0,6	149	328

Capacity Curve**Absorbed Power Curve**

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31683 Obernkirchen - Germany

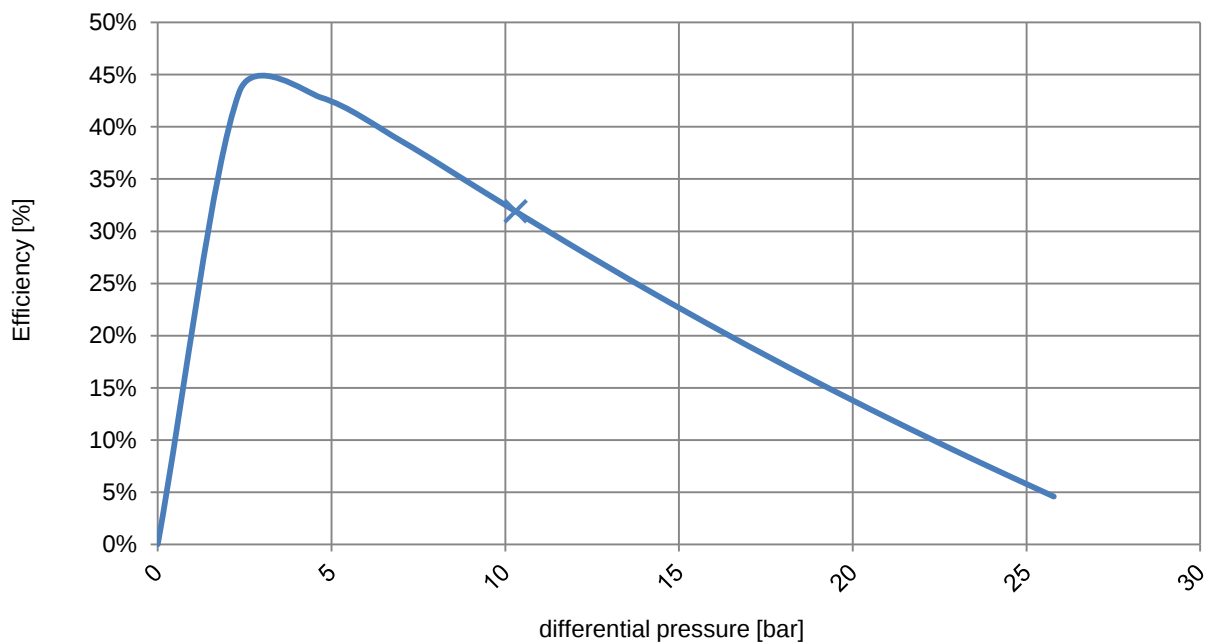
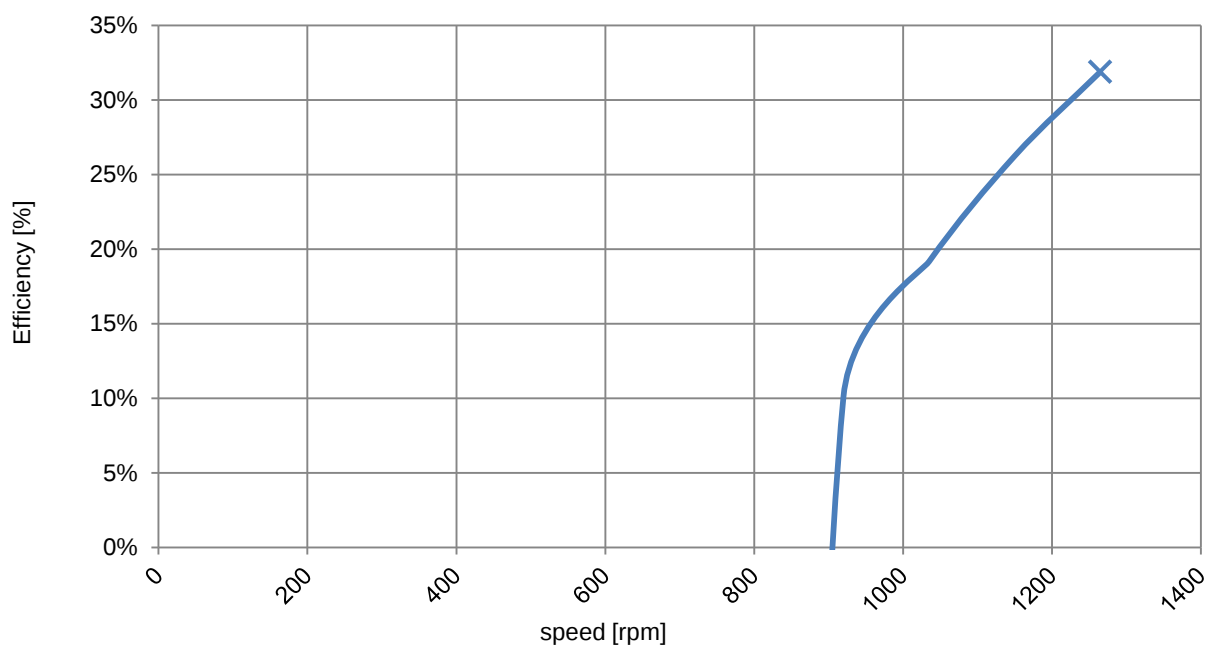
Tel.: +49 5724 390 0 Fax: +49 5724 390290

**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
expert	D. Blatt
project number	-
reference	-
revision	000

MAINT. LFD / low visc / low flow

flow rate	speed	dynamic viscosity	differential pressure	power consumption
m ³ /h	rpm	cst	bar	kW
273	1265	0,6	10,30	245
gpm	rpm	cst	psi	HP
1200	1265	0,6	149	328

Efficiency**Efficiency**

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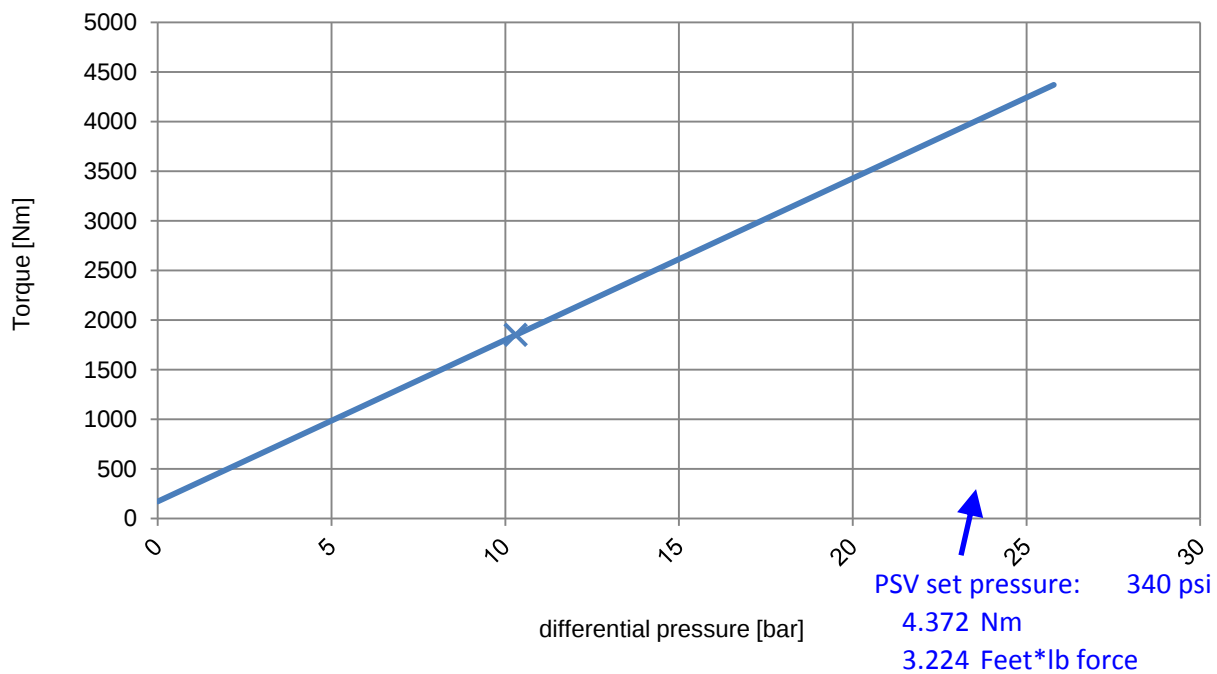
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**Bornemann****Performance curve
W 9.5zk 89/1**

date	05.02.2019
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Torque vs. dp**Torque vs. speed**