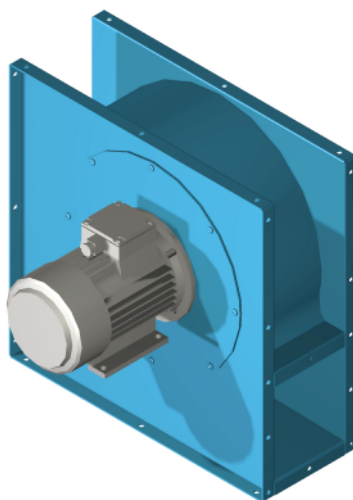




WENTYLATORY ODŚRODKOWE

TYP
LSV/MSV/HSV



ZASTOSOWANIE

Wentylatory odśrodkowe dzielą się na trzy główne grupy: nisko-, średnio-, i wysokociśnieniowe.

KONSTRUKCJA

Konstrukcja oparta jest na się na trzech głównych grupach, nisko-, średnio-, i wysokociśnieniowych.

Konstrukcja i kształt wirnika napędzanego wentylatora jest uzależniony od jego zastosowania, uwarunkowanego wymaganą objętością powietrza i spadkiem ciśnienia.

Wirniki dzielą się na cztery główne grupy. W celu realizacji specyfikacji klientów, dostępne są również rozwiązania na specjalne zamówienie, takie jak model odporny na iskierzenie.

WYKONANIE

LSV i MSV są produkowane z odpornego na wodę morską aluminium i malowane.

Wykonanie ze stali nierdzewnej / AISI 316 lub na życzenie ze stali cynkowanej lub malowanej.

Wirnik wykonany jest z aluminium odpornego na działanie soli i amoniaku, o aerodynamicznym kształcie i wyważeniu. W czterech głównych grupach:

Typ B: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wypukłe

Typ F: łopatki odchylone w kierunku obrotu wentylatora, koło 'Sciroccio'

Typ Z: łopatki odchylone w kierunku przeciwnym do obrotu wentylatora, wklęsłe samoczyszczące

Typ R: łopatki promieniste/promieniowe, do wentylatora transportowego

Przepustowość powietrza waha się od 1000 do 240 000 m³/n.

SILNIK ELEKTRYCZNY

Wentylatory są zwykle dostarczane ze standardowym indukcyjnymi klatkowymi silnikami elektrycznymi. Są również dostępne z silnikami elektrycznymi innego typu, jak silniki przeciwwybuchowe lub 2-biegowe

AKCESORIA

- Amortyzatory drgań
- Elastyczne połączenia wlot/wylot
- Cokół silnika (wymagany w przypadku ciężkich silników)
- Wlot kołnierzowy
- Przeciwołnierz wlot/wylot
- Kratka ochronna wlot/wylot
- Rama fundamentowa (tylko w przypadku wykonania z napędem pasowym)
- Właz inspekcyjny
- Wykonanie przeciwwybuchowe z osłoną przeciwwiskrową

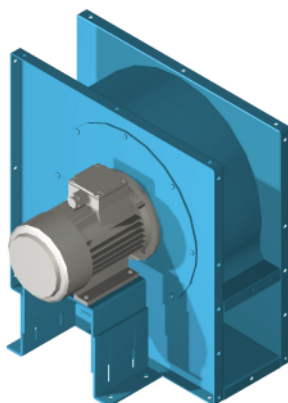
KONSTRUKCJE SPECJALNE

- Wykonanie z napędem pasowym

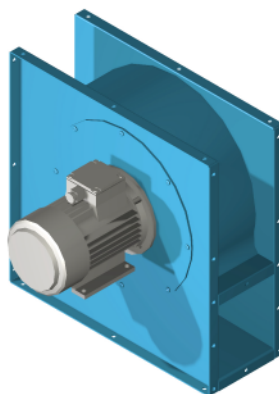


CENTRIFUGAL FANS

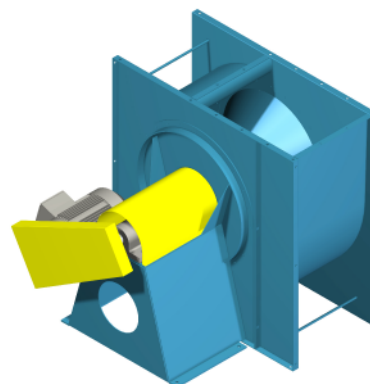
LSV - B1



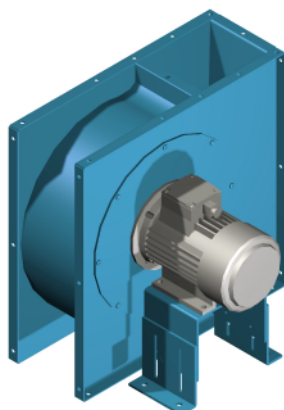
LSV - B1



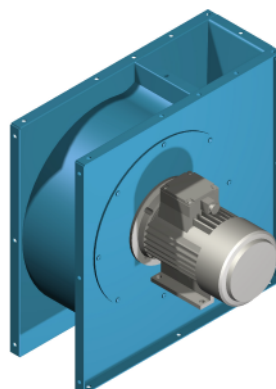
LSV - B3



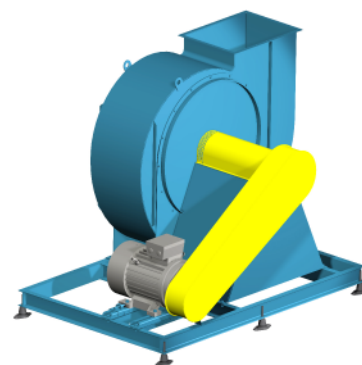
MSV - B1



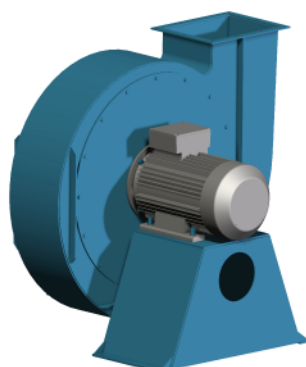
MSV - B1



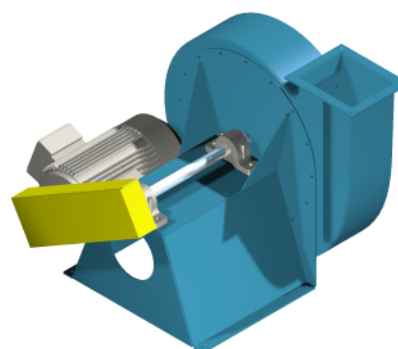
MSV - B2



HSV - B1



HSV - B3



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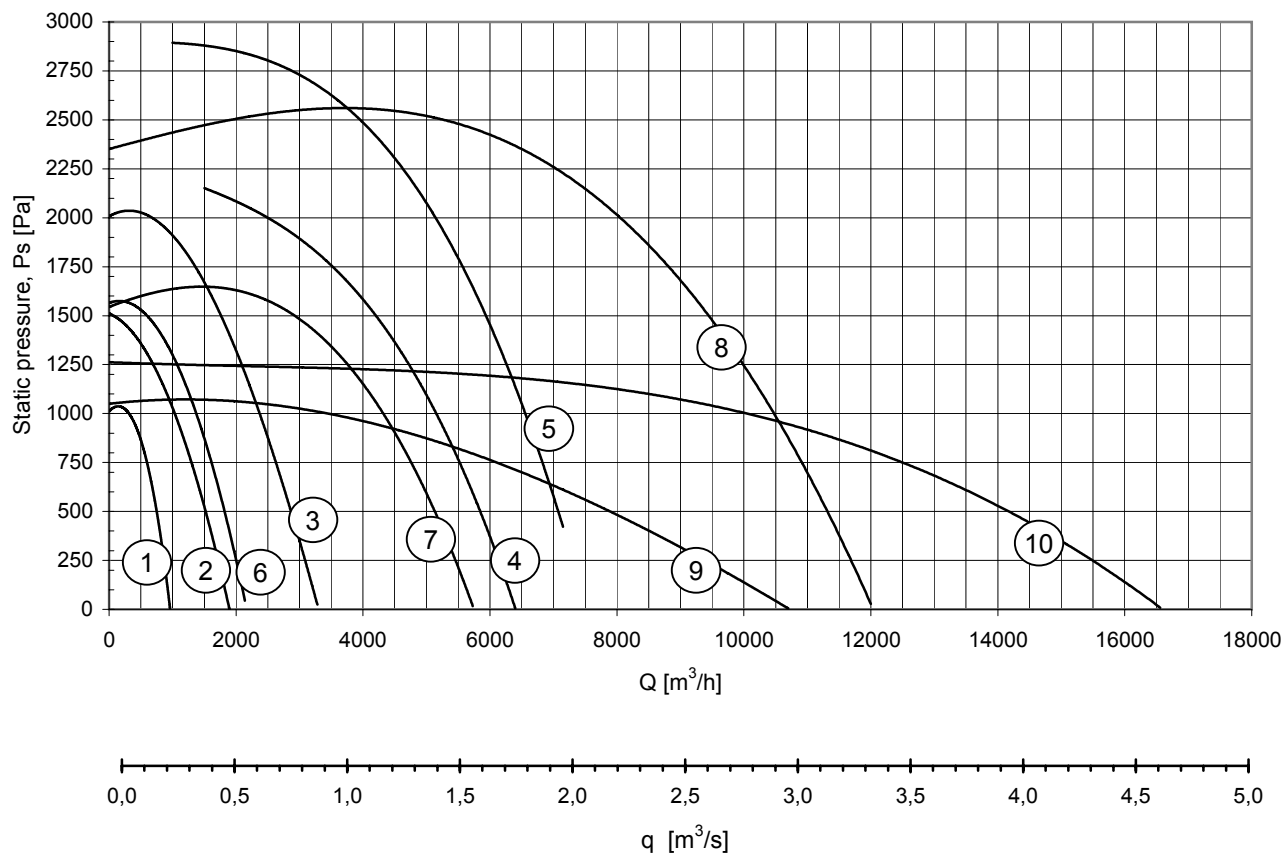


CENTRIFUGAL FANS

selection curves

(50Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (400V)	Current [A] (230V)
1	MSV 125 B1	2900	0,34	70	71M02K	0,37	1,05	1,9
2	MSV 160 B1	2900	0,58	75	80M02K	0,86	1,85	3,35
3	MSV 200 B1	2900	1,18	79	90S02	1,5	3,5	6,1
4	MSV 250 B1	2900	3,4	85	112M02	4	8,2	14,2
5	MSV 315 B1	2900	5,5	88	132S02K	5,5	11,7	19,6
6	LSV 250 B1	2900	0,88	75	80M02	1,1	2,55	4,4
7	LSV 315 B1	2900	1,92	81	90L02	2,2	4,8	8,4
8	LSV 400 B1	2900	7,5	88	132S02	7,5	15	25,5
9	LSV 500 B1	1450	2,4	76	100L04	3	7	12
10	LSV 600 B1	1450	3,8	81	112M04	4	9,3	16

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LSV and MSV

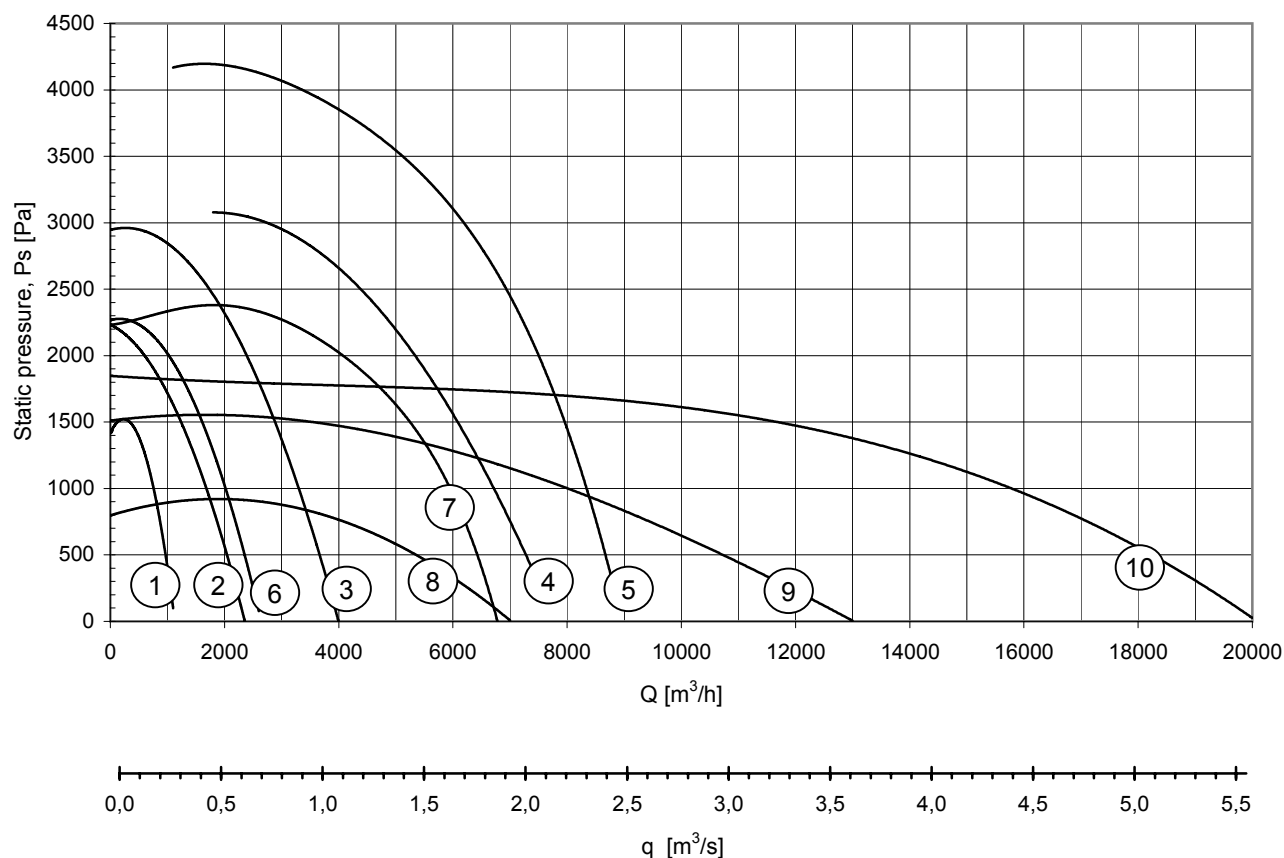


CENTRIFUGAL FANS

selection curves

(60Hz)

LSV and MSV



Curve	Fan	rpm	Fan power cons. [kW]	Sound press. [dBA] 1m	Motor	Motor power [kW]	Current [A] (440V)
1	MSV 125 B1	3500	0,58	75	71M02	0,63	1,4
2	MSV 160 B1	3500	1,02	80	80M02	1,3	2,5
3	MSV 200 B1	3500	2,08	83	90L02	2,55	4,8
4	MSV 250 B1	3500	6,1	89	112M02	6,3	11
5	MSV 315 B1	3500	9,6	93	132M02	12,6	20,6
6	LSV 250 B1	3500	1,55	82	90S02	1,75	3,4
7	LSV 315 B1	3500	3,4	85	100L02	3,45	6,3
8	LSV 400 B1	1750	1,55	72	90L04	1,75	3,6
9	LSV 500 B1	1750	4,2	79	112M04	4,6	8,8
10	LSV 600 B1	1750	6,7	84	132M04	8,6	16

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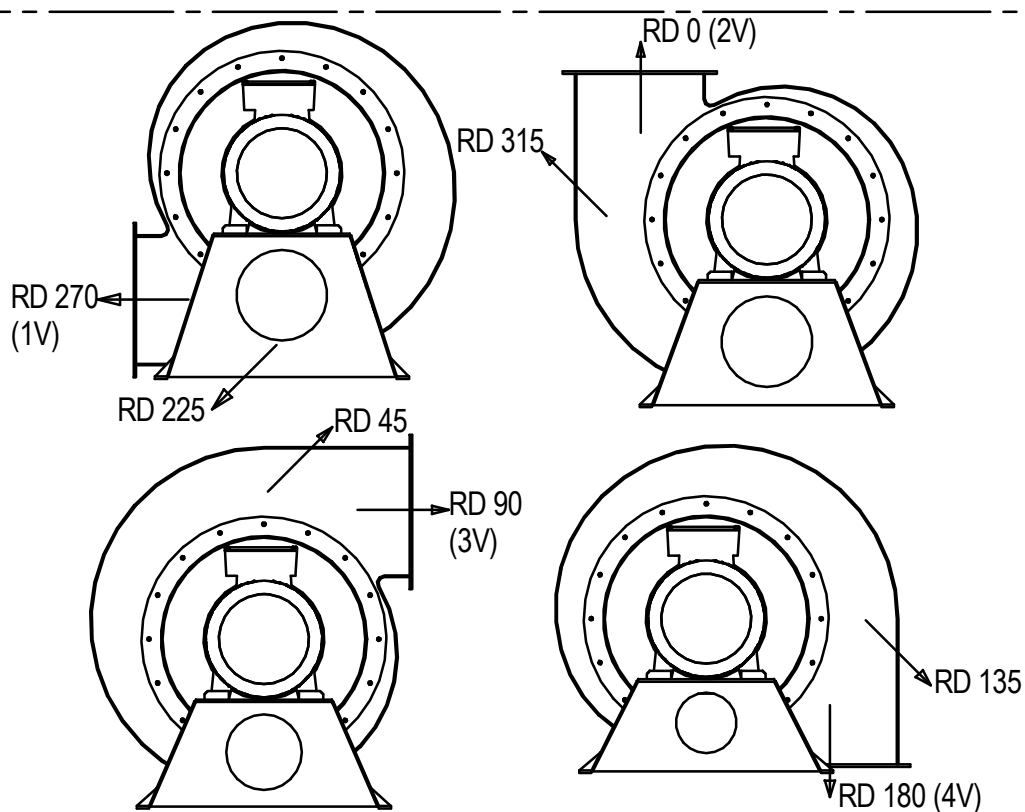
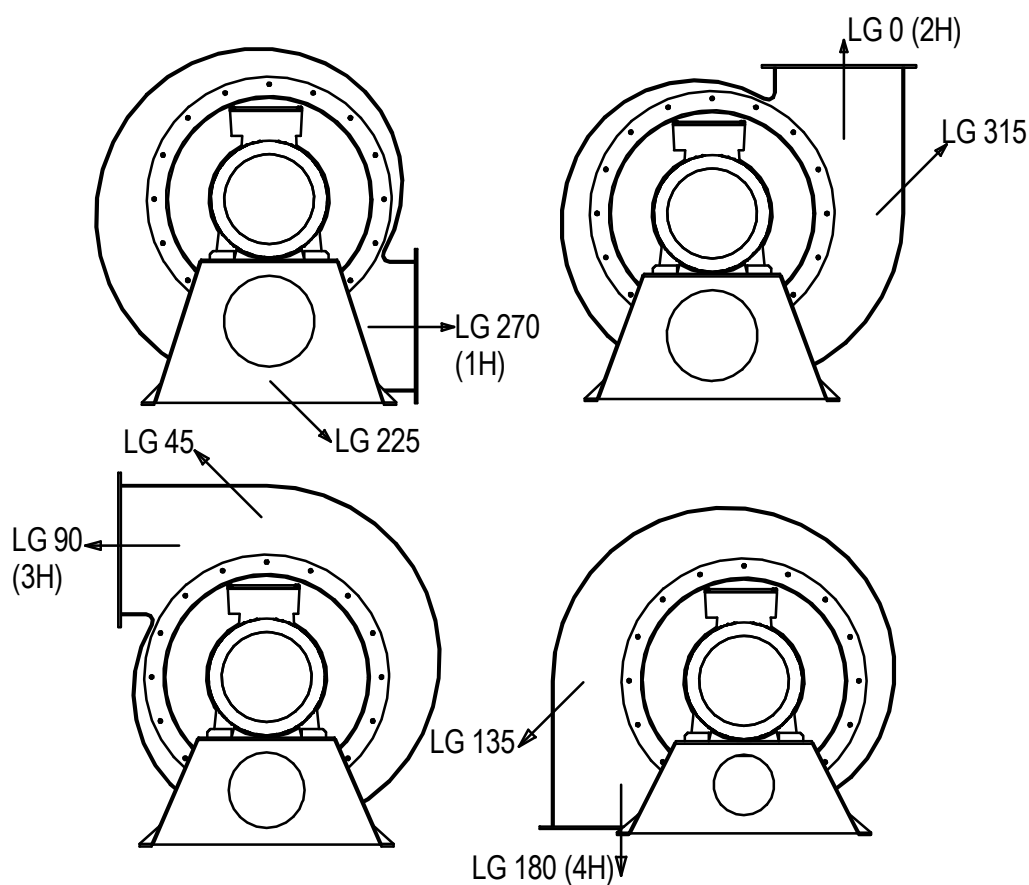


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LSV and MSV



MOUNTING POSITIONS IN ACCORDANCE TO EUROVENT CENTRIFUGAL FANS



06.12.00

F. Østro
4-2013-1



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Centrifugal Fans

Explanation of Fan Model Number

Fan model number is stated in the following way: Centrifugal Fan model MSV 160 B1.

MSV	160	B	1
figure no 1-3	Figure no 4-6	7	8

1. - 3. figure:

LSV : Low pressure centrifugal fan
MSV : Medium pressure centrifugal fan
HSV, HZV, HRV : High pressure centrifugal fan

4. -6. figure:

The size of the fan.

The numbers refers to nominal diameter (mm) on the fan's suction flange.

8.figure

- 1: Direct driven. impeller mounted on motor shaft
- 2: Belt driven. motor placed alongside the fan
- 3: Belt driven. motor mounted on the fan, belt screened



SOUND POWER LEVELS (SWL) CALC. NYBORG CENTRIFUGAL FANS

FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1450	B12x300x80	80	72	70	62	62	57	54	52	57
LSV 250 B	2900	B12x300x80	90	93	85	84	76	75	71	67	75
LSV 315 B	1450	B12x350x100	84	76	74	66	66	61	58	56	61
LSV 315 B	2900	B12x350x100	96	99	91	90	82	81	77	73	81
LSV 400 B	1450	B6x450x100	92	84	82	74	74	69	66	64	70
LSV 500 B	1450	B7x550x125	98	90	88	80	80	75	72	70	76
LSV 600 B	1450	B7x650x140	103	95	93	85	85	80	77	75	81
MSV 125 B	2900	B9x250x50	85	88	80	79	71	70	66	62	70
MSV 160 B	2900	B12x300x60	89	92	84	83	75	74	70	66	75
MSV 200 B	1450	B12x350x70	83	75	73	65	66	60	57	55	60
MSV 200 B	2900	B12x350x70	97	100	92	91	83	82	78	74	79
MSV 250 B	1450	B12x400x80	88	80	78	70	70	65	63	60	65
MSV 250 B	2900	B12x400x80	100	103	95	94	86	85	81	77	85
MSV 315 B	1450	B12x450x90	91	83	81	73	73	68	65	63	69
MSV 315 B	2900	B12x450x90	103	106	98	97	89	88	84	80	88

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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SOUND POWER LEVELS (SWL) CALC. NYBORG CENTRIFUGAL FANS

FAN DATA			dB values at centre Hz								Theor
FAN MODEL	Rpm	Impeller	63	125	250	500	1000	2000	4000	8000	dBA
LSV 250 B	1750	B12x300x80	82	76	74	67	65	61	58	55	61
LSV 250 B	3500	B12x300x80	95	98	93	90	84	81	77	74	82
LSV 315 B	1750	B12x350x100	85	79	77	70	68	64	61	58	64
LSV 315 B	3500	B12x350x100	98	101	96	93	87	84	80	77	85
LSV 400 B	1750	B6x450x100	93	87	85	78	76	72	69	66	72
LSV 500 B	1750	B7x550x125	99	93	91	84	82	78	75	72	79
LSV 600 B	1750	B7x650x140	104	98	96	89	87	83	80	77	84
MSV 125 B	3500	B9x250x50	89	92	87	84	78	75	71	68	75
MSV 160 B	3500	B12x300x60	94	97	92	89	83	80	76	63	80
MSV 200 B	1750	B12x350x70	84	78	76	69	67	63	60	57	63
MSV 200 B	3500	B12x350x70	97	100	95	93	86	83	79	76	83
MSV 250 B	1750	B12x400x80	90	84	82	75	73	69	66	63	70
MSV 250 B	3500	B12x400x80	102	105	100	97	91	88	84	81	89
MSV 315 B	1750	B12x450x90	94	88	86	79	77	73	70	67	73
MSV 315 B	3500	B12x450x90	106	109	104	101	95	92	88	85	93

- Sound power levels in dB. ref. 10^{-12} W, internal values in fan openings.
- dBA values applies to 1 m. distance based on a theoretical free field environment.
- The sound power level values above are only intended as a guide, and may be used for calculations for sound pressure levels. (heard by the human ear).



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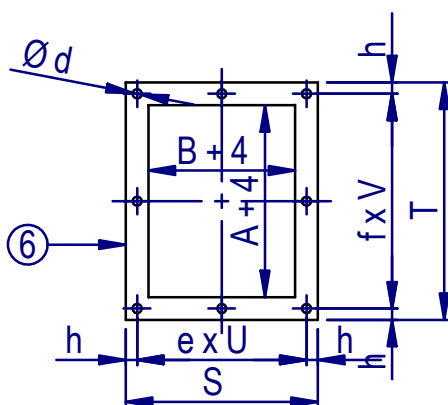
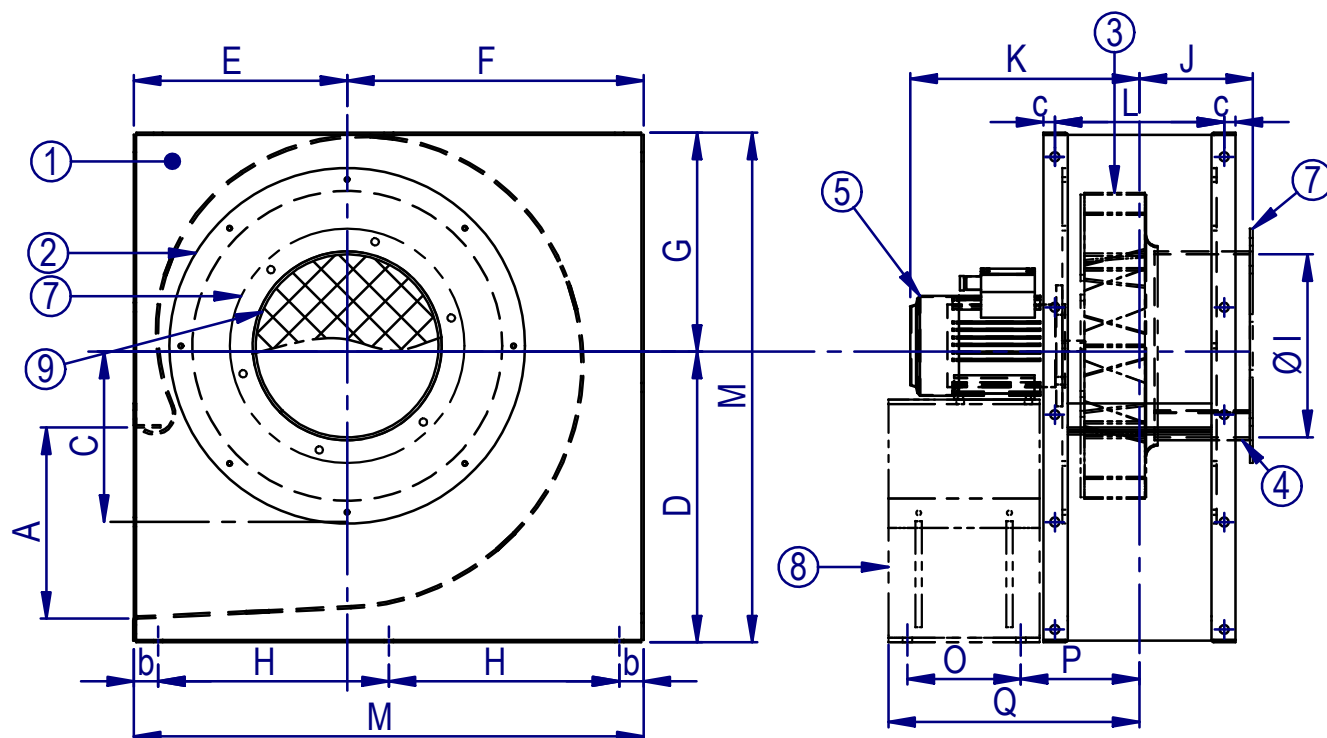


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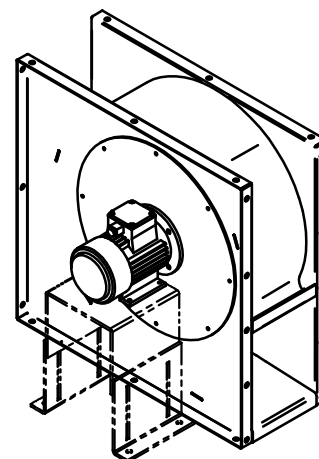
MEDIUM PRESS. CENTRIFUGAL FAN Dimension Drawing

MSV - B1



	Contra flange, Inlet	option
	Contra flange, Outlet	option
9	Wire guard, Inlet	option
8	Motor pedestall	Required for heavy motor.
7	Flange inlet	option
6	Flange outlet	
5	El. motor	
4	Conn.piece,collar in	
3	Impeller	
2	Inlet cone	
1	Fan housing	
Item	Description	Remarks

Material: Alum.5052 (Option:AISI 316L)



Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	Weight [kg] ex cl. motor
125	130	110	140	229	180	244	195	190	80		134	424	6,5
160	156	125	170	277	227	277	227	225	100		154	504	10,5
200	188	160	204	327	272	307	252	262,5	125		189	579	12,5
250	250	190	233	392	282	392	282	305	145		224	674	17,5
315	296	253	250	433	353	413	333	350	175		289	766	23,5
	b	c	d	e	f	h	U	V	S	T	O	P	Q
125	22	10	9,5	1	1	10	134	154	154	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	32	15	12	2	3	15	144,5	110	319	360			

4-2243

4/8-05
K.Klokk



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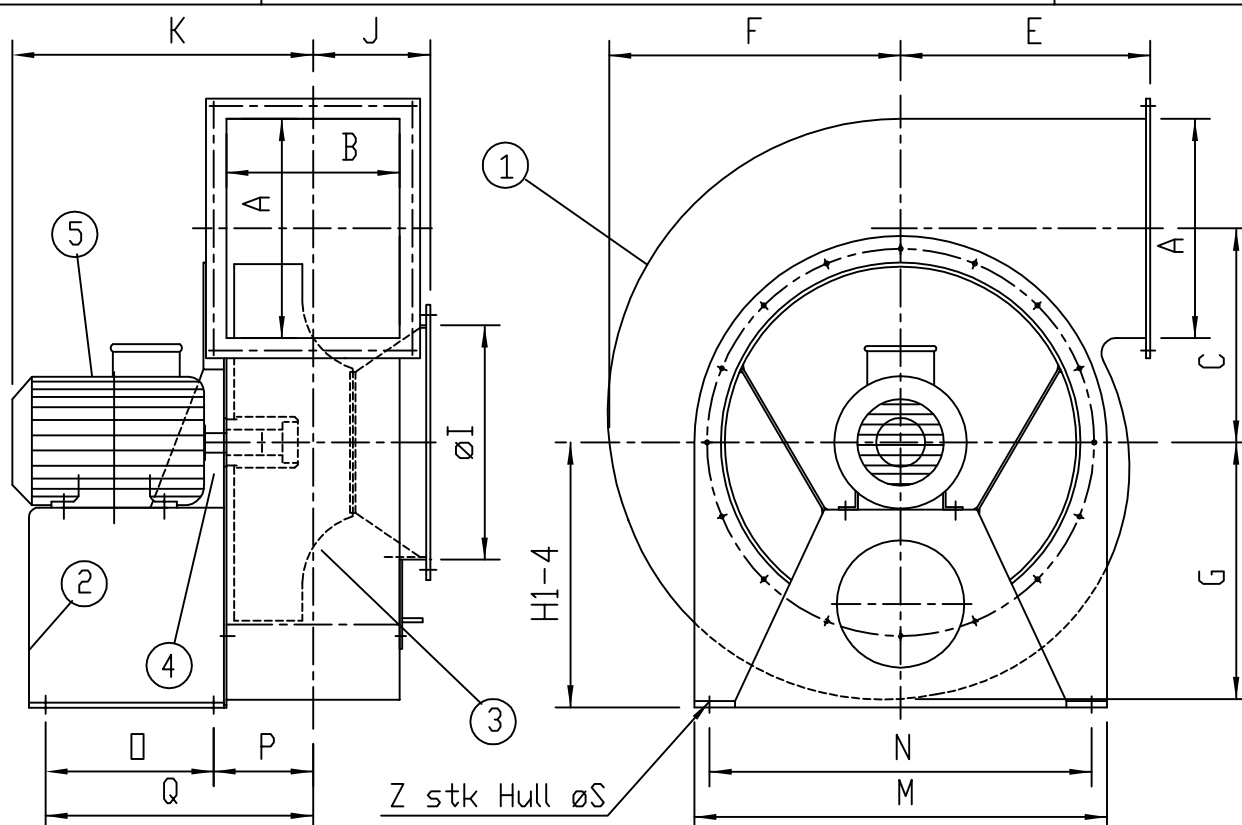
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MSV - B1



MEDIUM PRESSURE CENTR. FAN DIRECT DRIVEN DESIGN

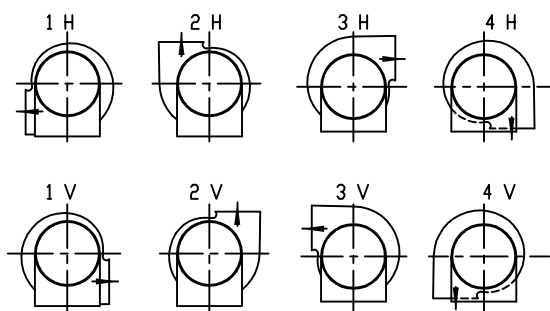
MSV-B1



SIZE no 1ø	A	B	C	E	F	G	H1	H2	H3	H4	J	K	M	N	□	P	Q	Z	S
350	350	270	320	380	425	380	550	450	400	450	190		630	580		170		4	14
400	370	290	370	440	505	450	600	550	500	400	210		700	650		175		4	16
450	430	340	420	490	575	510	680	620	560	430	230		810	750		195		4	16
500	460	370	460	520	630	540	750	650	600	470	250		900	800		230		4	16
600	530	410	530	600	730	630	850	775	680	550	280		1000	900		250		4	22
700	690	490	630	700	860	750	1050	910	800	650	330		1200	1120		290		4	22
800	790	570	720	800	1000	870	1200	1050	900		360		1400						

MOUNTING POSITIONS

TO BE SEEN AGAINST INLET



- ① FAN HOUSING
Matl.: St. 37
- ② MOTOR PEDESTAL.
Matl.: St. 37
- ③ FAN IMPELLER, BACKWARD CURVED BLADES
Matl.: St. 37
- ④ GASKET ASSEMBLY
- ⑤ EL. MOTOR
kW: Rpm: V: Hz:

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MSV-B1



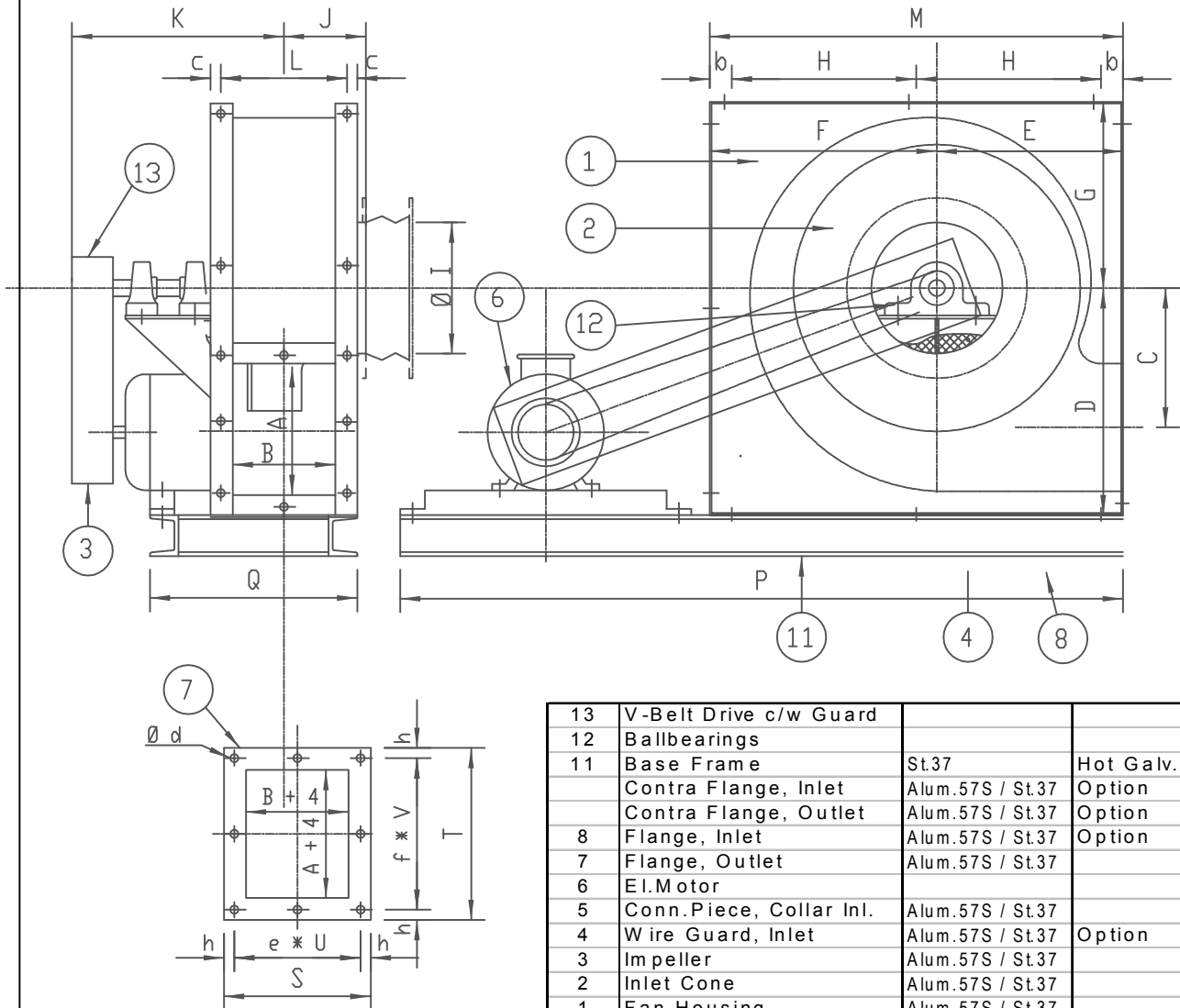
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV - B2

Bearing Pedestal



13	V-Belt Drive c/w Guard		
12	Ballbearings		
11	Base Frame	St.37	Hot Galv.
	Contra Flange, Inlet	Alum.57S / St.37	Option
	Contra Flange, Outlet	Alum.57S / St.37	Option
8	Flange, Inlet	Alum.57S / St.37	Option
7	Flange, Outlet	Alum.57S / St.37	
6	El. Motor		
5	Conn. Piece, Collar Inl.	Alum.57S / St.37	
4	Wire Guard, Inlet	Alum.57S / St.37	Option
3	Impeller	Alum.57S / St.37	
2	Inlet Cone	Alum.57S / St.37	
1	Fan Housing	Alum.57S / St.37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
125	130	100	140	229	180	244	195	370	75		124	424	
160	156	125	170	277	227	277	227	225	100		154	504	
200	188	160	204	327	272	307	252	262,5	125		189	579	
250	250	190	233	392	282	392	282	305	145		224	674	
315	296	253	250	433	353	413	333	350	175		289	766	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
125	22	10	9,5	1	1	10	124	154	144	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	33	15	12	2	3	15	144,5	110	319	360			

Date : 08/12-95

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Drawn : R.Berge



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MSV - B2

Medium Pressure
Centrifugal Fan



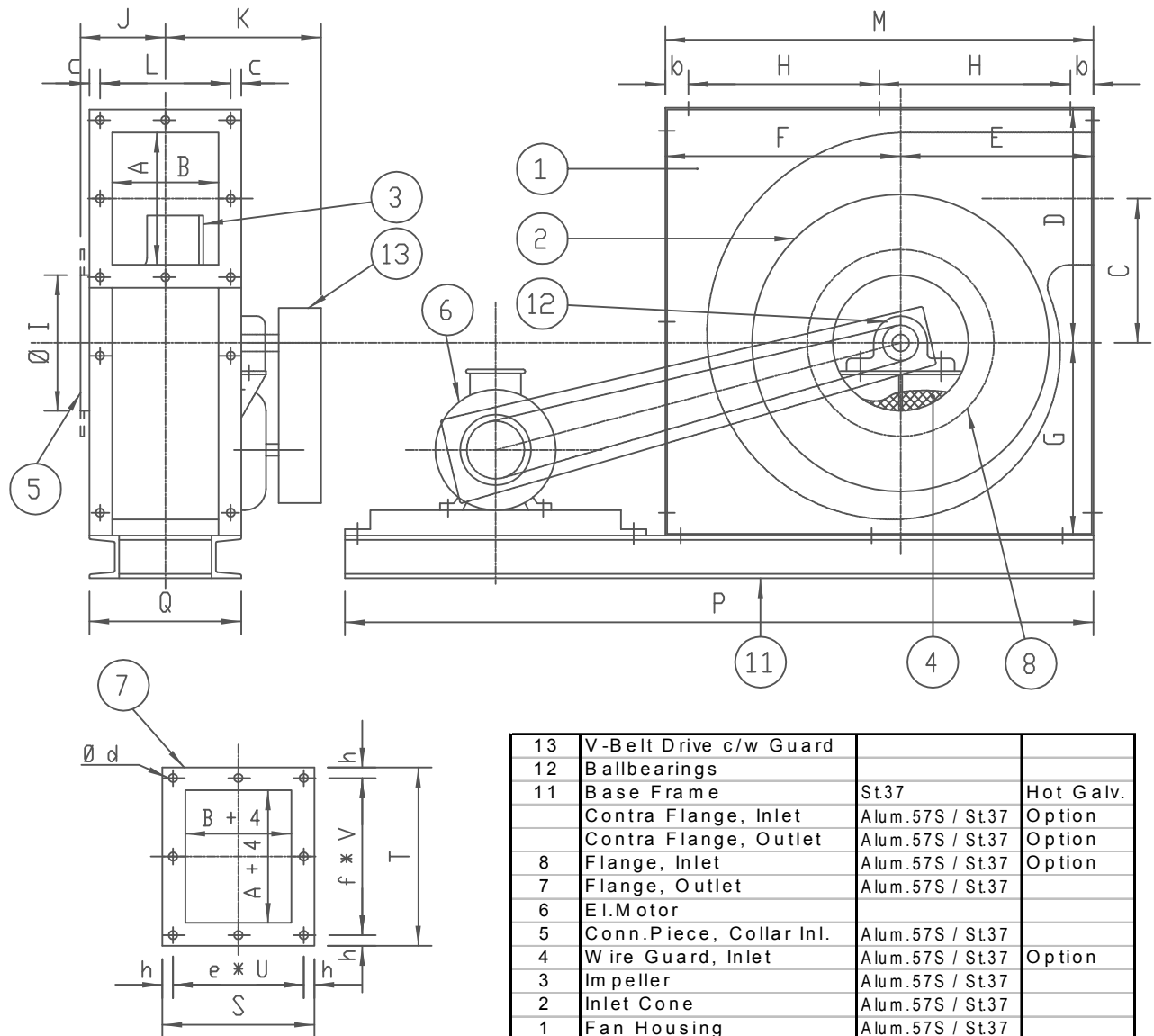
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV - B2

Bearings in
Inlet Cone



13	V-Belt Drive c/w Guard		
12	Ballbearings		
11	Base Frame	St.37	Hot Galv.
	Contra Flange, Inlet	Alum.57S / St.37	Option
	Contra Flange, Outlet	Alum.57S / St.37	Option
8	Flange, Inlet	Alum.57S / St.37	Option
7	Flange, Outlet	Alum.57S / St.37	
6	El.Motor		
5	Conn.Piece, Collar Inl.	Alum.57S / St.37	
4	Wire Guard, Inlet	Alum.57S / St.37	Option
3	Impeller	Alum.57S / St.37	
2	Inlet Cone	Alum.57S / St.37	
1	Fan Housing	Alum.57S / St.37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
125	130	100	140	229	180	244	195	370	75		124	424	
160	156	125	170	277	227	277	227	225	100		154	504	
200	188	160	204	327	272	307	252	262,5	125		189	579	
250	250	190	233	392	282	392	282	305	145		224	674	
315	296	253	250	433	353	413	333	350	175		289	766	
	b	c	d	e	f	h	U	V	S	T	O	P	Q
125	22	10	9,5	1	1	10	124	154	144	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	33	15	12	2	3	15	144,5	110	319	360			

Date : 08/12-95

4-1136-m

Drawn : R.Berge



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MSV - B2

Medium Pressure
Centrifugal Fan

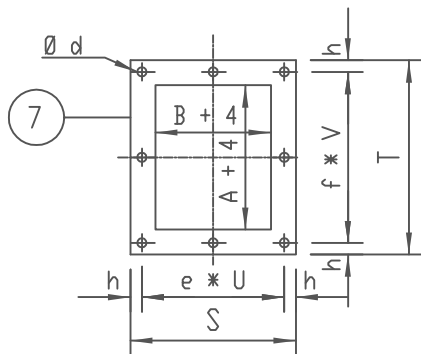
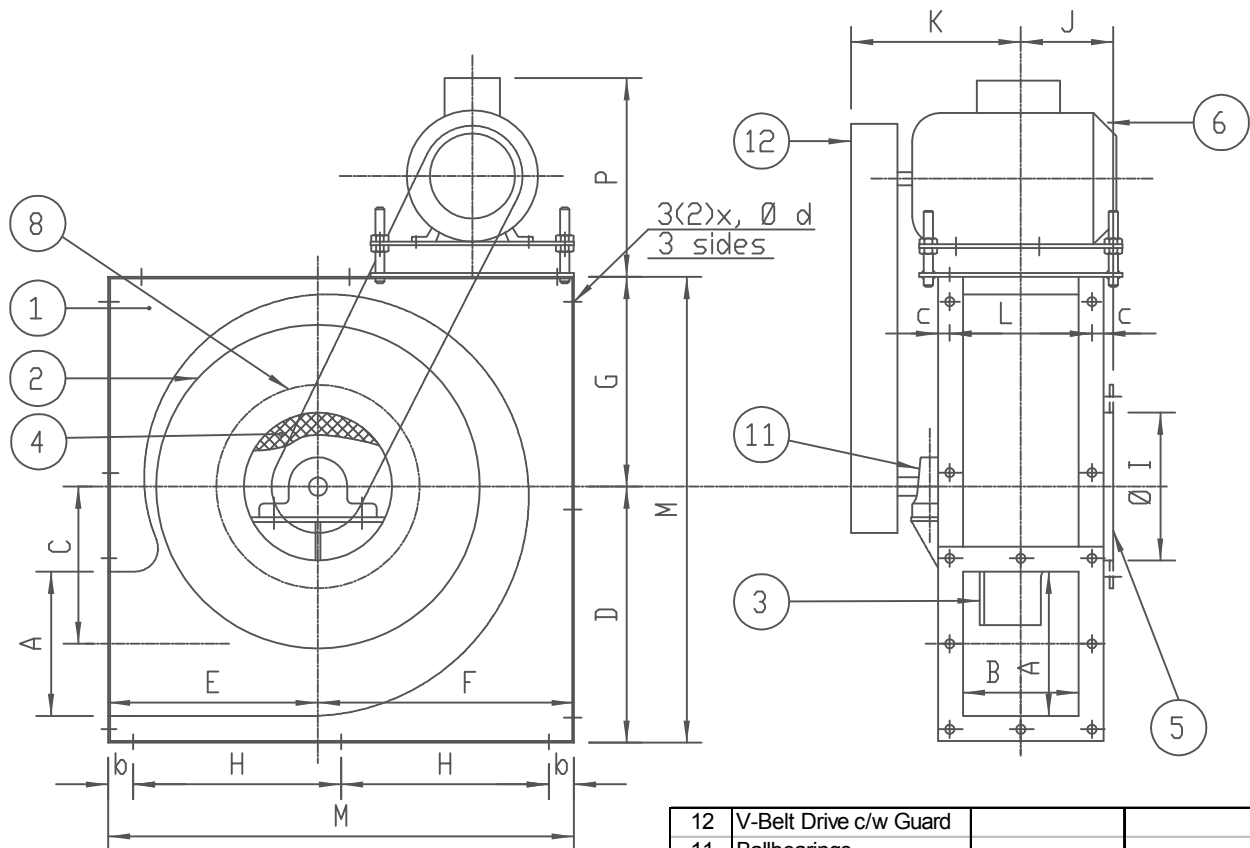


MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design Dimension Drawing

MSV - B3

Motor on
Fan Housing



12	V-Belt Drive c/w Guard		
11	Ballbearings		
	Contra Flange, Inlet	Alum.57S / St.37	Option
	Contra Flange, Outlet	Alum.57S / St.37	Option
8	Flange, Inlet	Alum.57S / St.37	Option
7	Flange, Outlet	Alum.57S / St.37	
6	El.Motor		
5	Conn.Piece, Collar Inl.	Alum.57S / St.37	
4	Wire Guard, Inlet	Alum.57S / St.37	Option
3	Impeller	Alum.57S / St.37	
2	Inlet Cone	Alum.57S / St.37	
1	Fan Housing	Alum.57S / St.37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	
125	130	100	140	229	180	244	195	370	75		124	424	
160	156	125	170	277	227	277	227	225	100		154	504	
200	188	160	204	327	272	307	252	262,5	125		189	579	
250	250	190	233	392	282	392	282	305	145		224	674	
315	296	253	250	433	353	413	333	350	175		289	766	
	b	c	d	e	f	h	U	V	S	T		P	
125	22	10	9,5	1	1	10	124	154	144	174			
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210			
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242			
250	32	15	12	2	2	15	112	142	254	314			
315	33	15	12	2	3	15	144,5	110	319	360			

Date :11/12-95

4-1138-m

Drawn :R.Berge



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MSV - B3

Medium Pressure
Centrifugal Fan



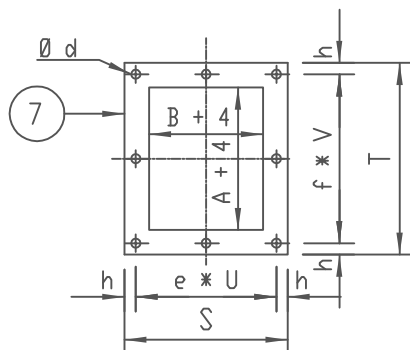
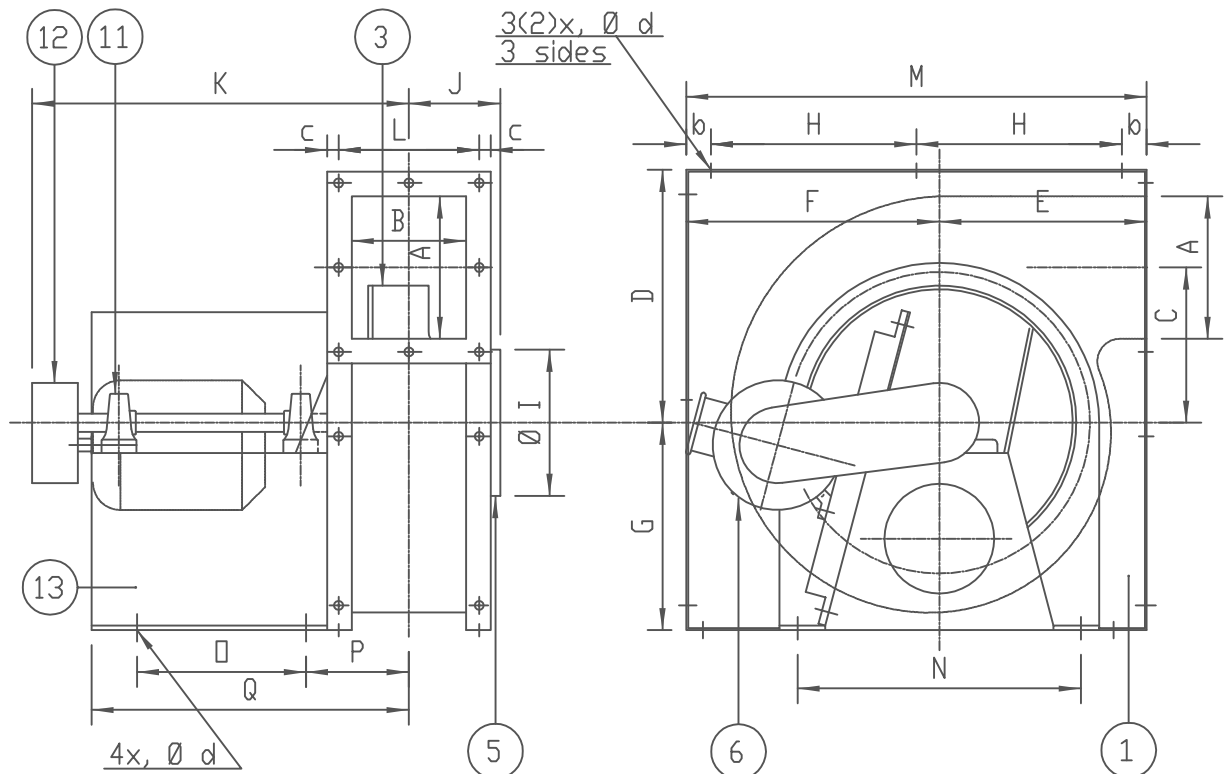
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV - B3

Motor-/Bearing
Pedestal



13	Motor/Bearing Pedestal	St37	
12	V-Belt Drive c/w Guard		
11	Ballbearings		
	Contra Flange, Inlet	Alum.57S / St37	Option
	Contra Flange, Outlet	Alum.57S / St37	Option
	Flange, Inlet	Alum.57S / St37	Option
7	Flange, Outlet	Alum.57S / St37	
6	El.Motor		
5	Conn.Piece, Collar Inl.	Alum.57S / St37	
	Wire Guard, Inlet	Alum.57S / St37	Option
3	Impeller	Alum.57S / St37	
2	Inlet Cone	Alum.57S / St37	
1	Fan Housing	Alum.57S / St37	
Item	Description	Material	Remarks

Fan Size Ø I	A	B	C	D	E	F	G	H	J	K	L	M	N		
125	130	100	140	229	180	244	195	370	75		124	424			
160	156	125	170	277	227	277	227	225	100		154	504			
200	188	160	204	327	272	307	252	262,5	125		189	579			
250	250	190	233	392	282	392	282	305	145		224	674			
315	296	253	250	433	353	413	333	350	175		289	766			
	b	c	d	e	f	h	U	V	S	T					
125	22	10	9,5	1	1	10	124	154	144	174					
160	27	12,5	9,5	2	2	12,5	77	92,5	179	210					
200	27	12,5	9,5	2	2	12,5	94,5	108,5	214	242					
250	32	15	12	2	2	15	112	142	254	314					
315	33	15	12	2	3	15	144,5	110	319	360					

Date : 11/12-95

4-1137-m

Drawn : R.Berge



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MSV - B3

Medium Pressure
Centrifugal Fan



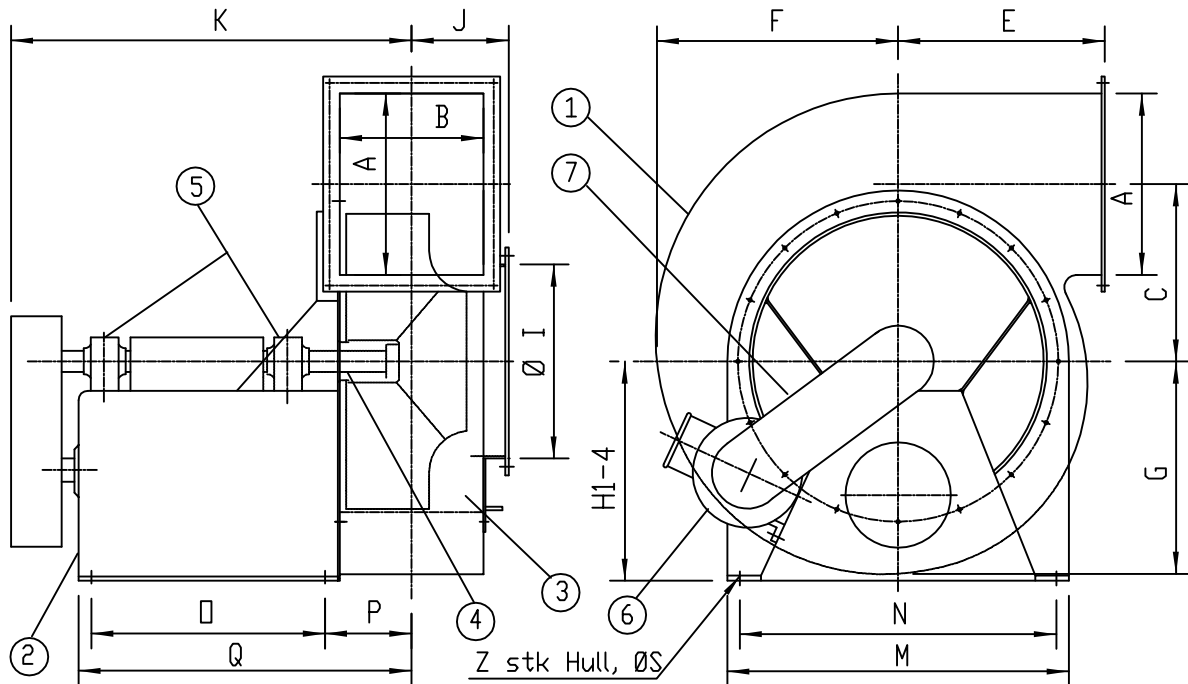
MEDIUM PRESSURE CENTRIFUGAL FAN

Belt Drive Design

Dimension Drawing

MSV-B3

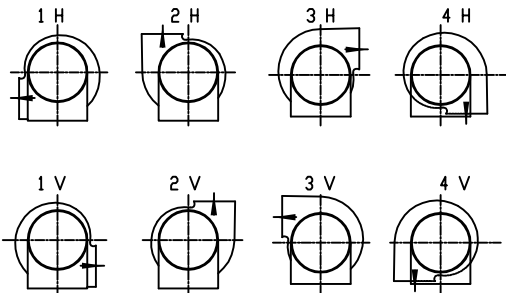
Motor-/Bearing
Pedestal



SIZE Ø I	A	B	C	E	F	G	H1	H2	H3	H4	J	K	M	N	Ø	P	Q	Z	S
350	350	270	320	380	425	380	550	450	400	450	190		630	580		170		4	14
400	370	290	370	440	505	450	600	550	500	400	210		700	650		175		4	16
450	420	330	420	490	575	510	680	620	560	430	230		810	750		195		4	16
500	460	370	460	520	630	540	750	650	600	470	250		900	800		230		4	16
600	530	410	530	600	730	630	850	775	680	550	280		1000	900		250		4	22
700	690	490	630	700	860	750	1050	910	800	650	330		1200	1120		290		4	22

MOUNTING POSITIONS

To be seen against the inlet



- ① FAN HOUSING
Matl.: St. 37
- ② MOTOR PEDESTAL.
Matl.: St. 37
- ③ FAN IMPELLER
Matl.: St. 37
- ④ SHAFT SEAL OR GASKET ASSEMBLY
If applicable
- ⑤ 2 pcs. BEARINGS
- ⑥ El. Motor:
kW: Rpm: V: Hz:
- ⑦ V-Belt Transmission c/w Belt Drive

24.06.97

M.Berge

msvb3af



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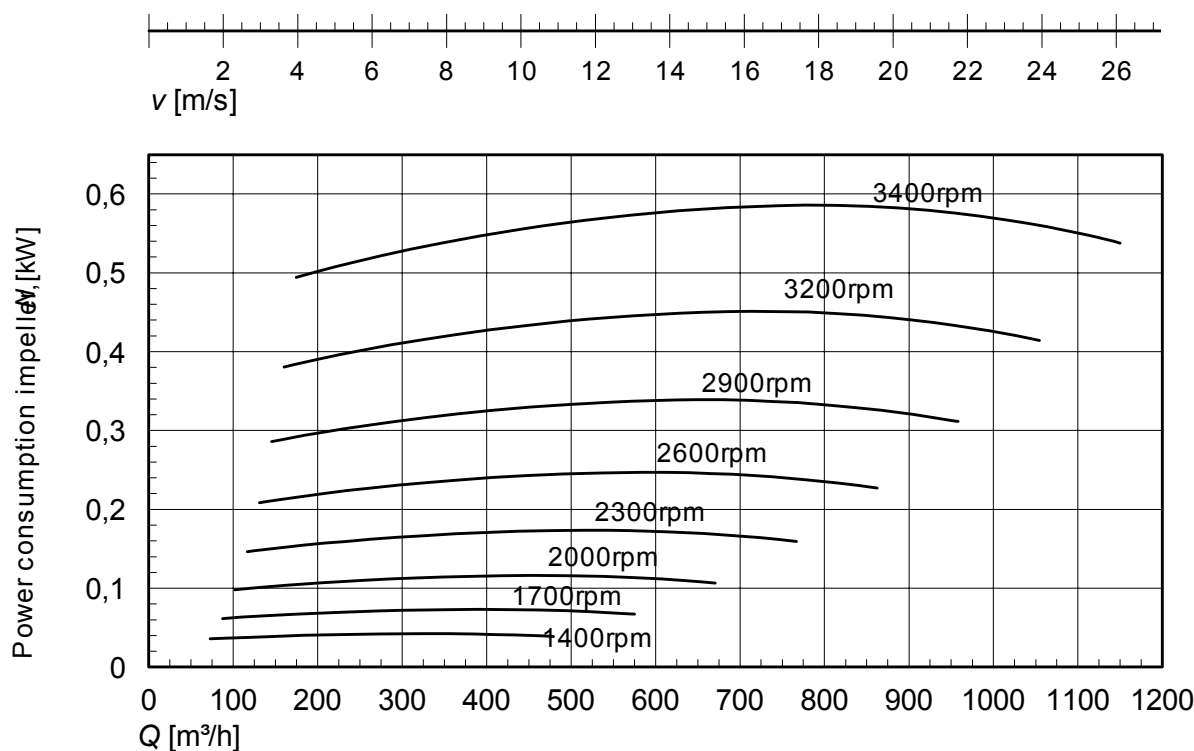
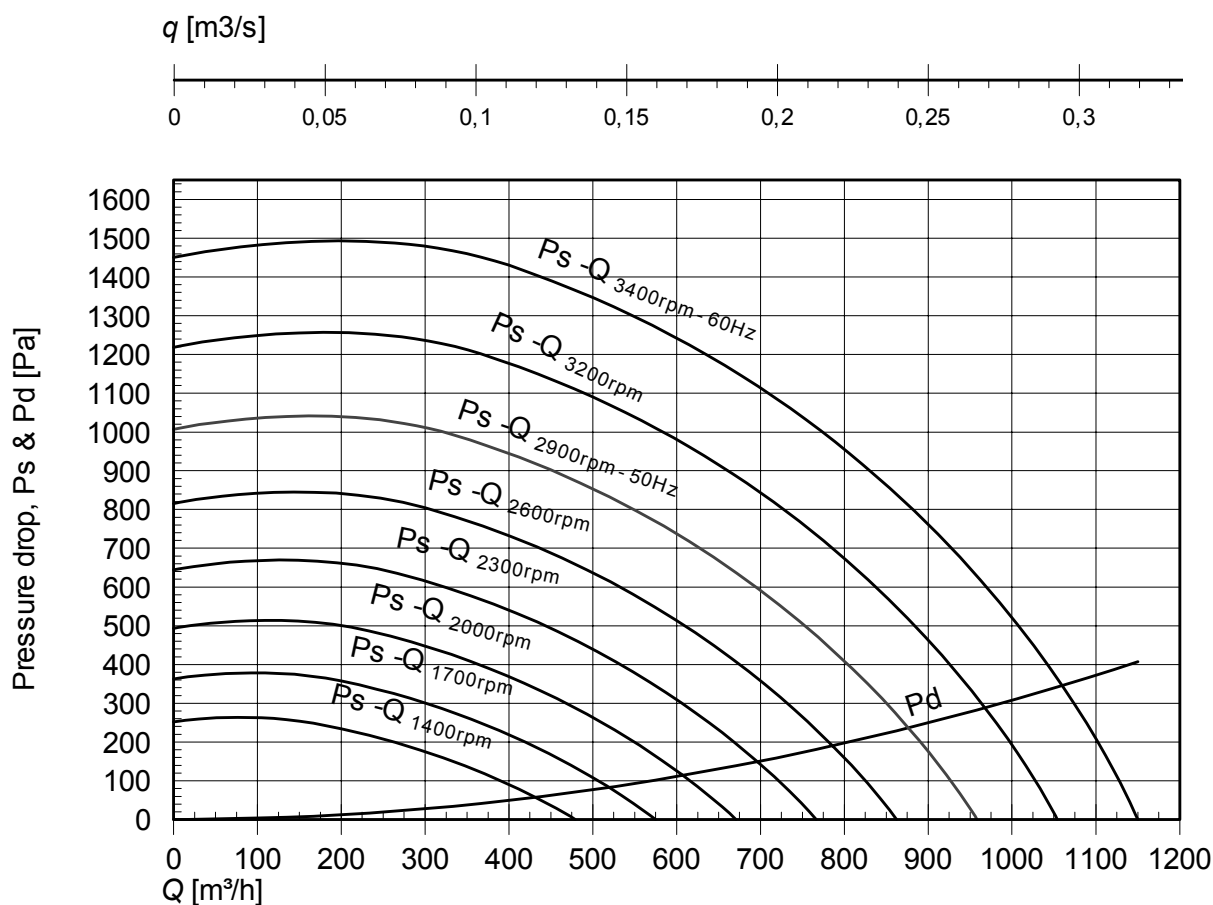
MSV-B3



MEDIUM PRESSURE CENTR. FAN PERFORMANCE DATA

MSV 125 B

Imp: B9x250x70



Nyborg10-24



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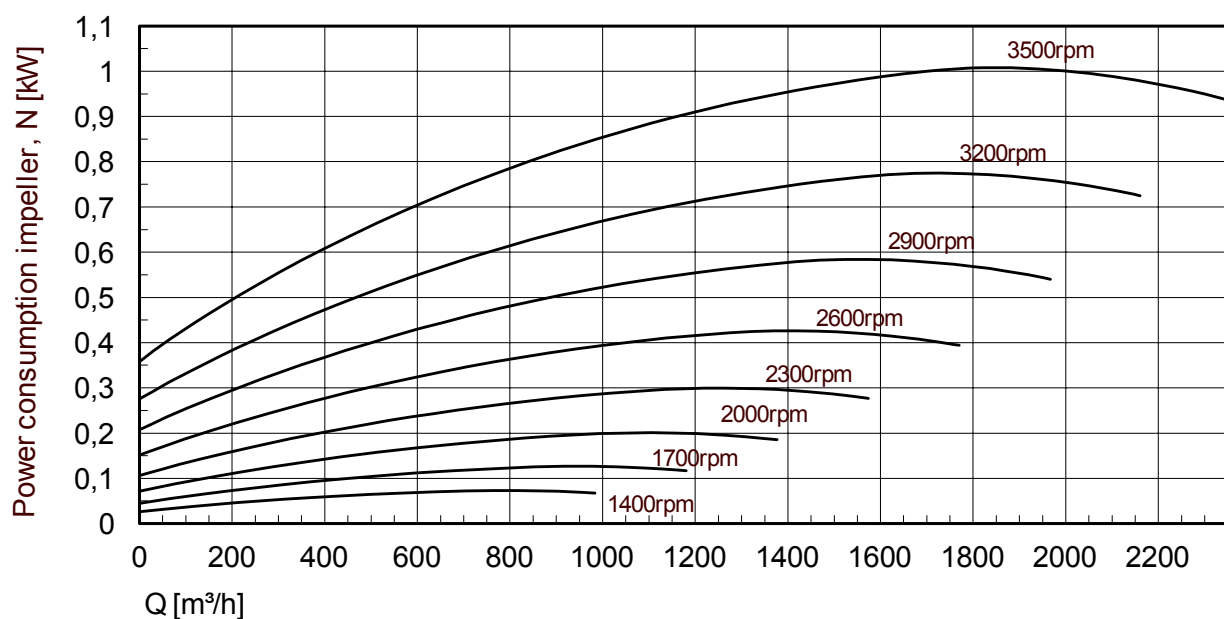
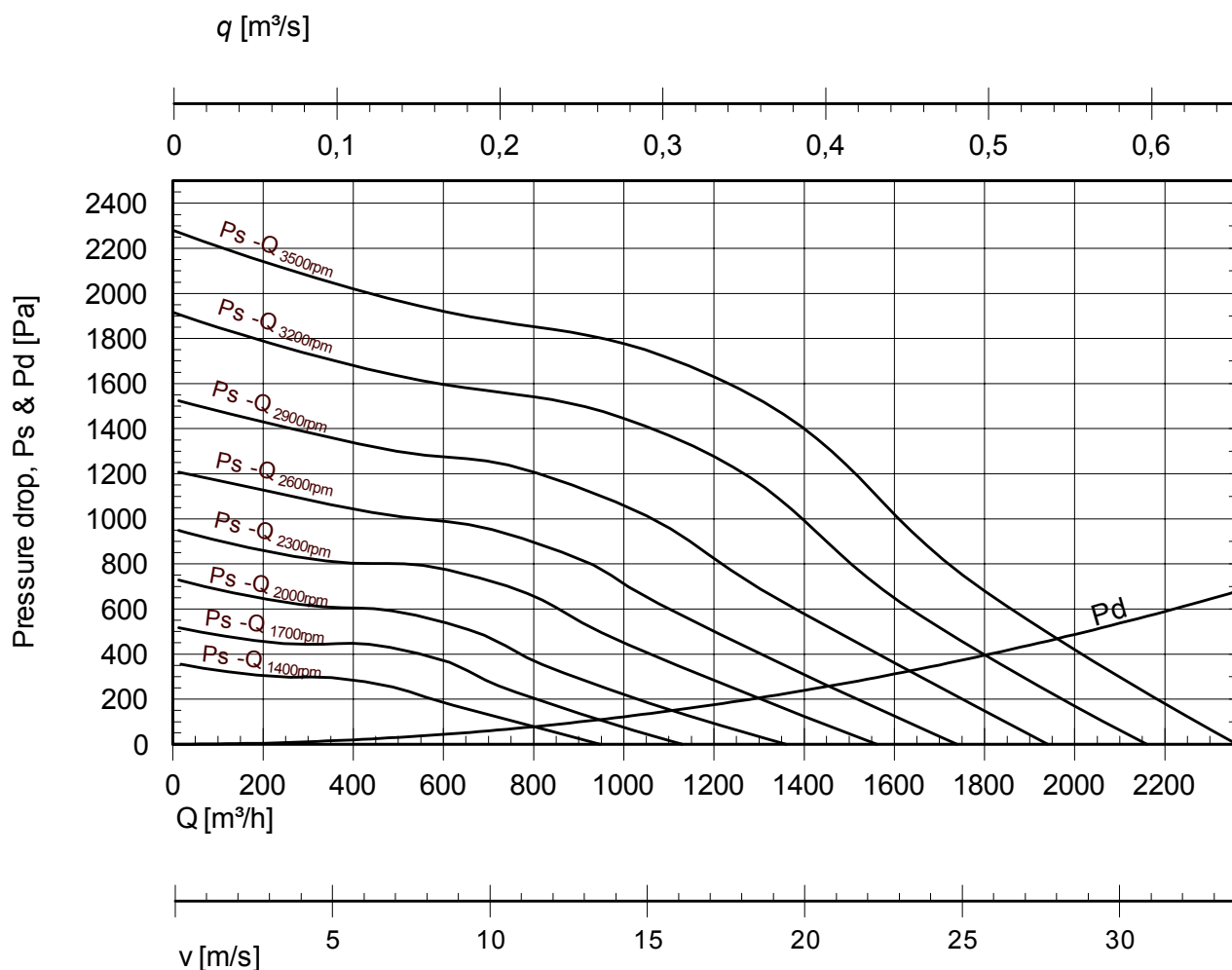
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MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 160 B

Imp: B12x300x60



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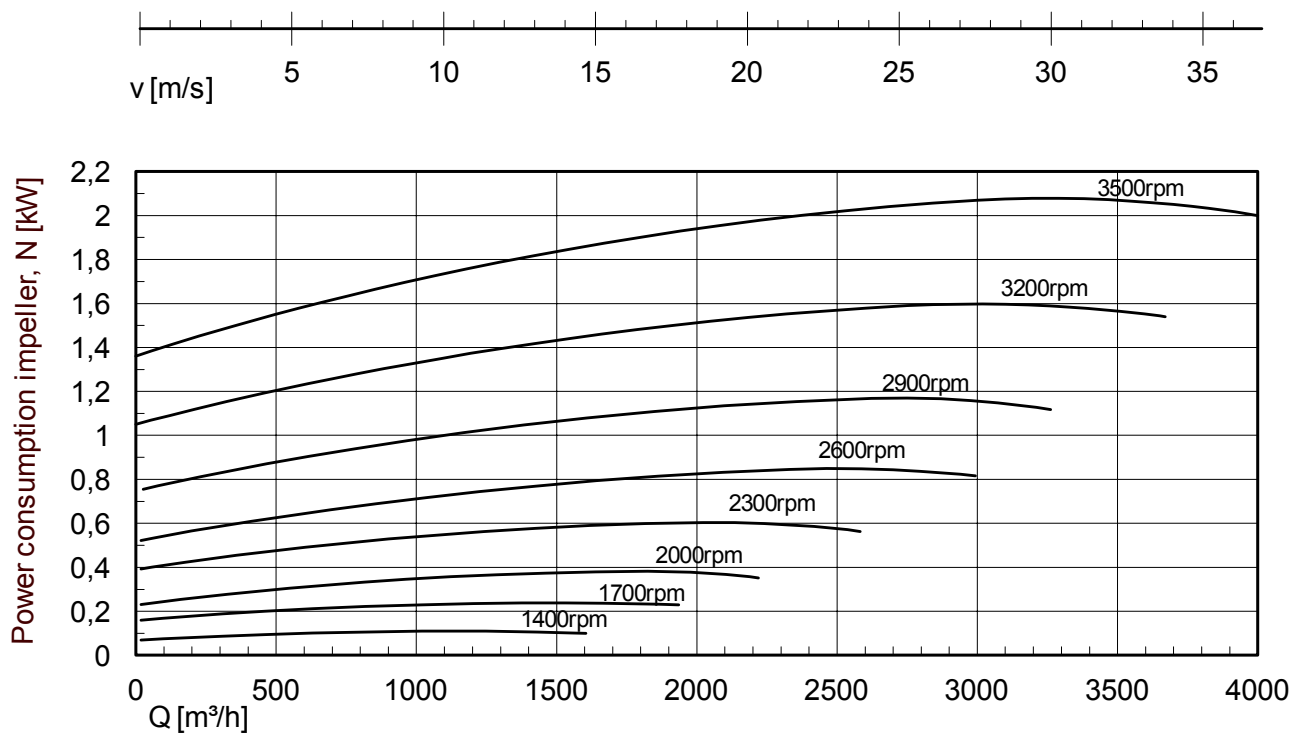
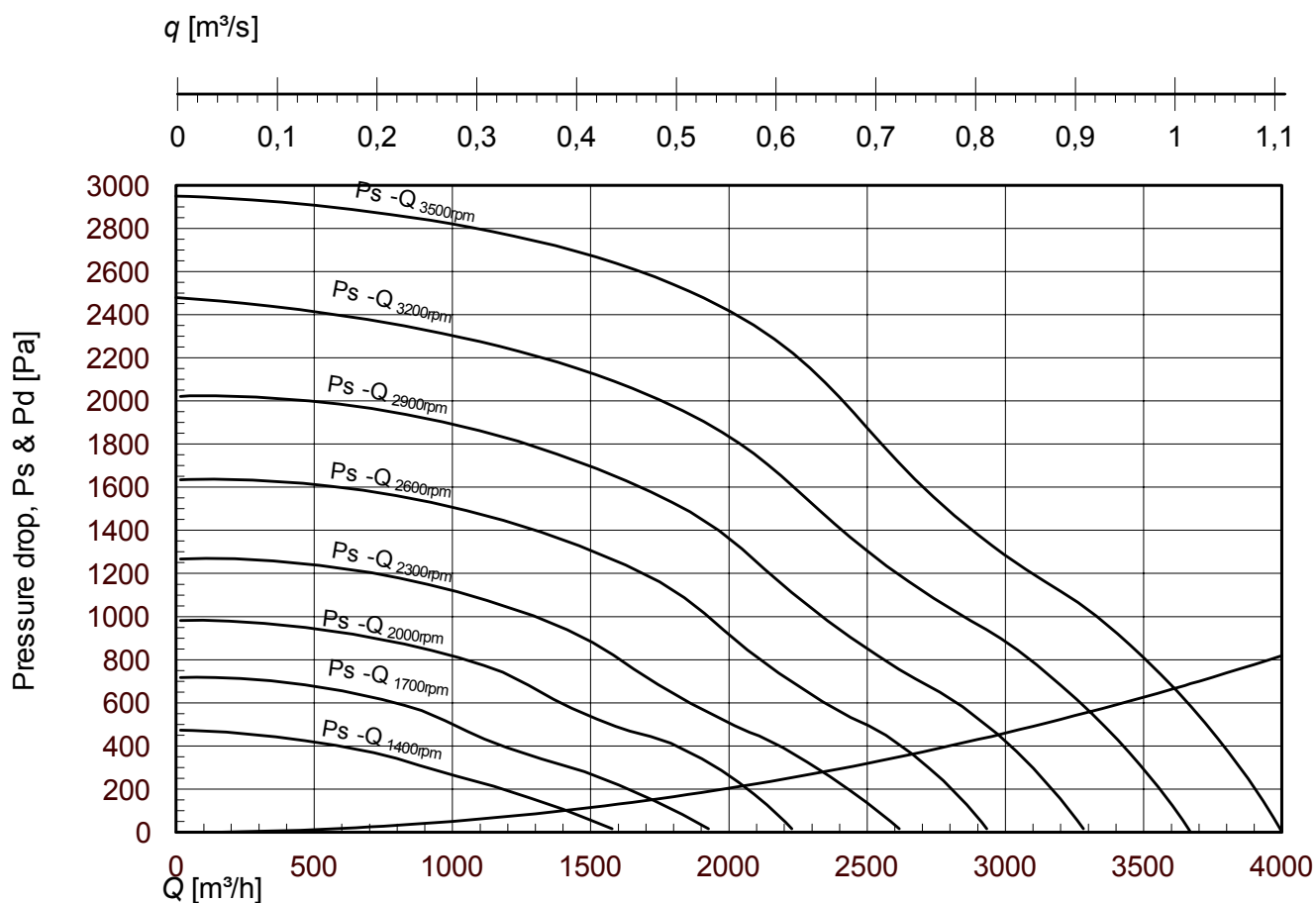
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MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

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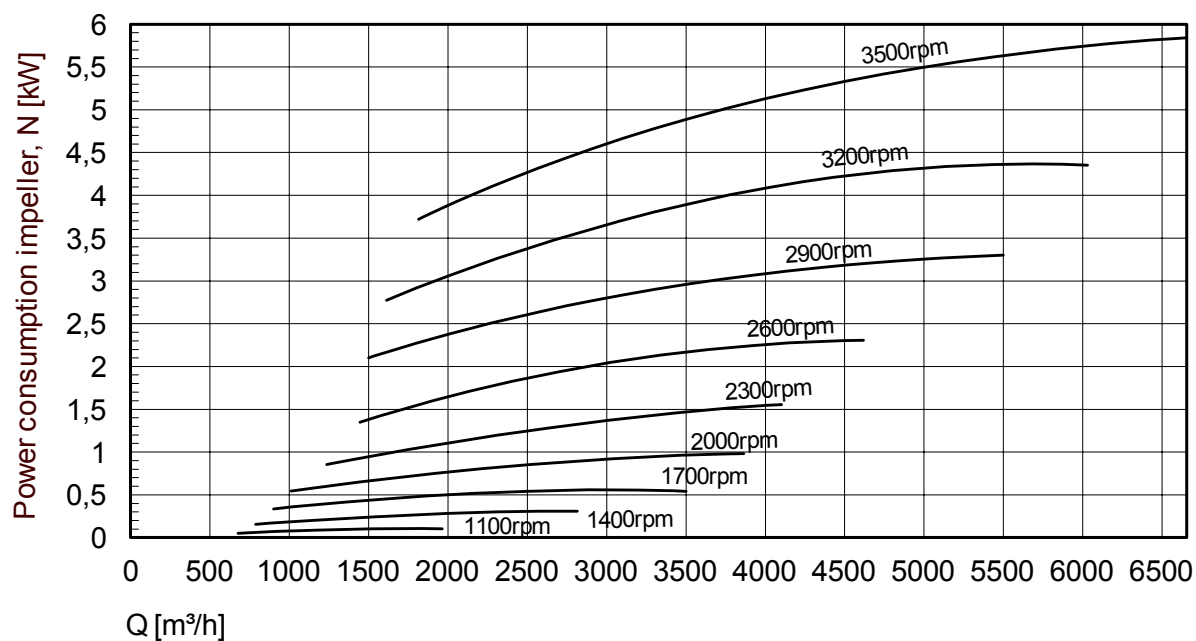
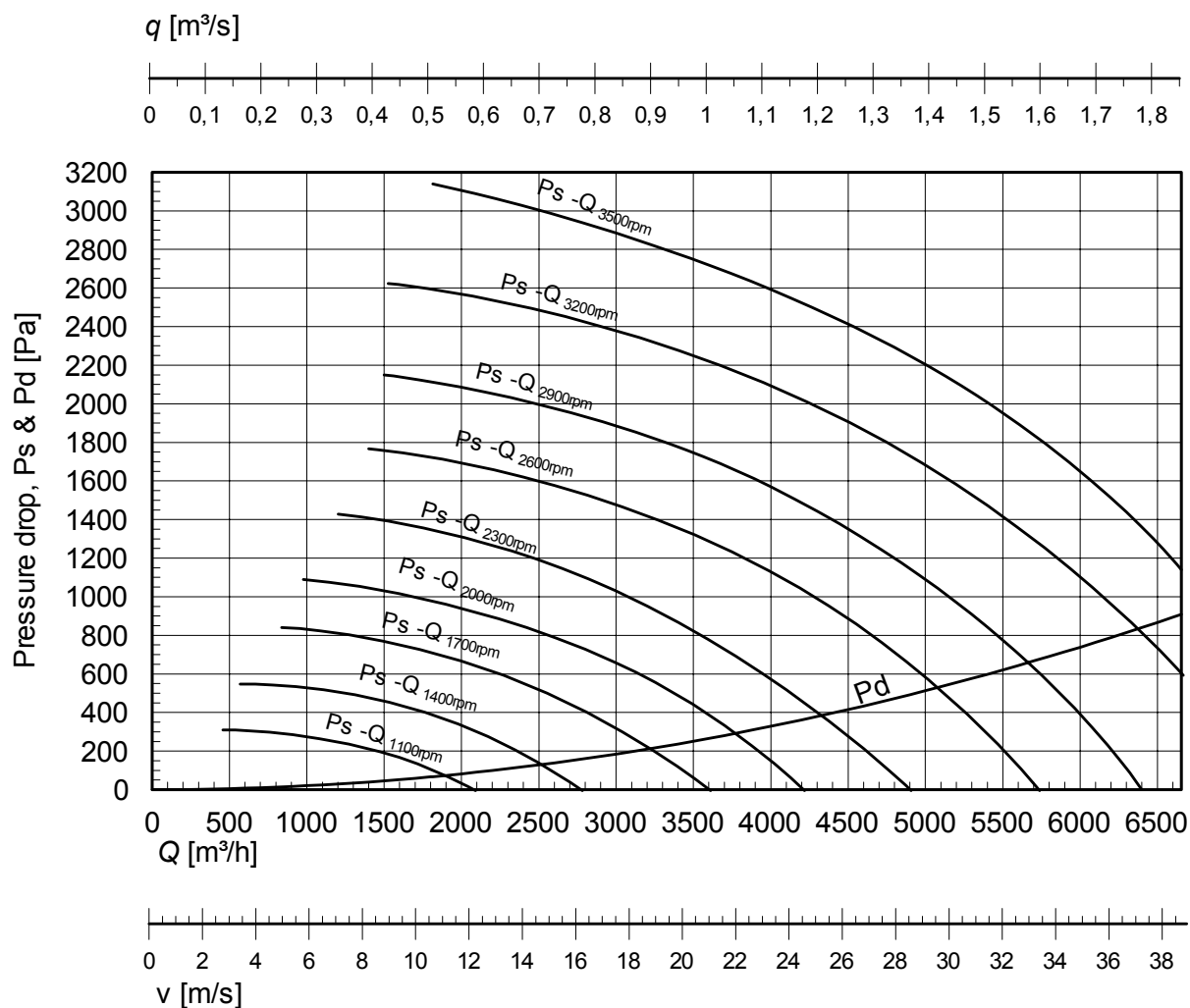




MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 250 B

Imp: B12x400x80



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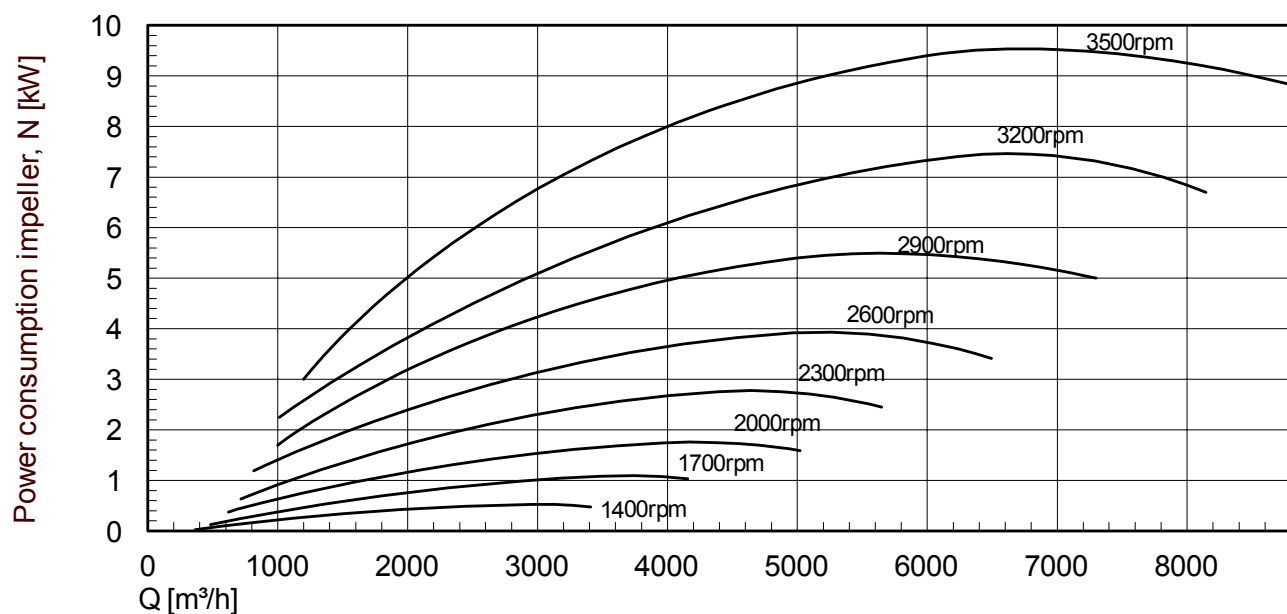
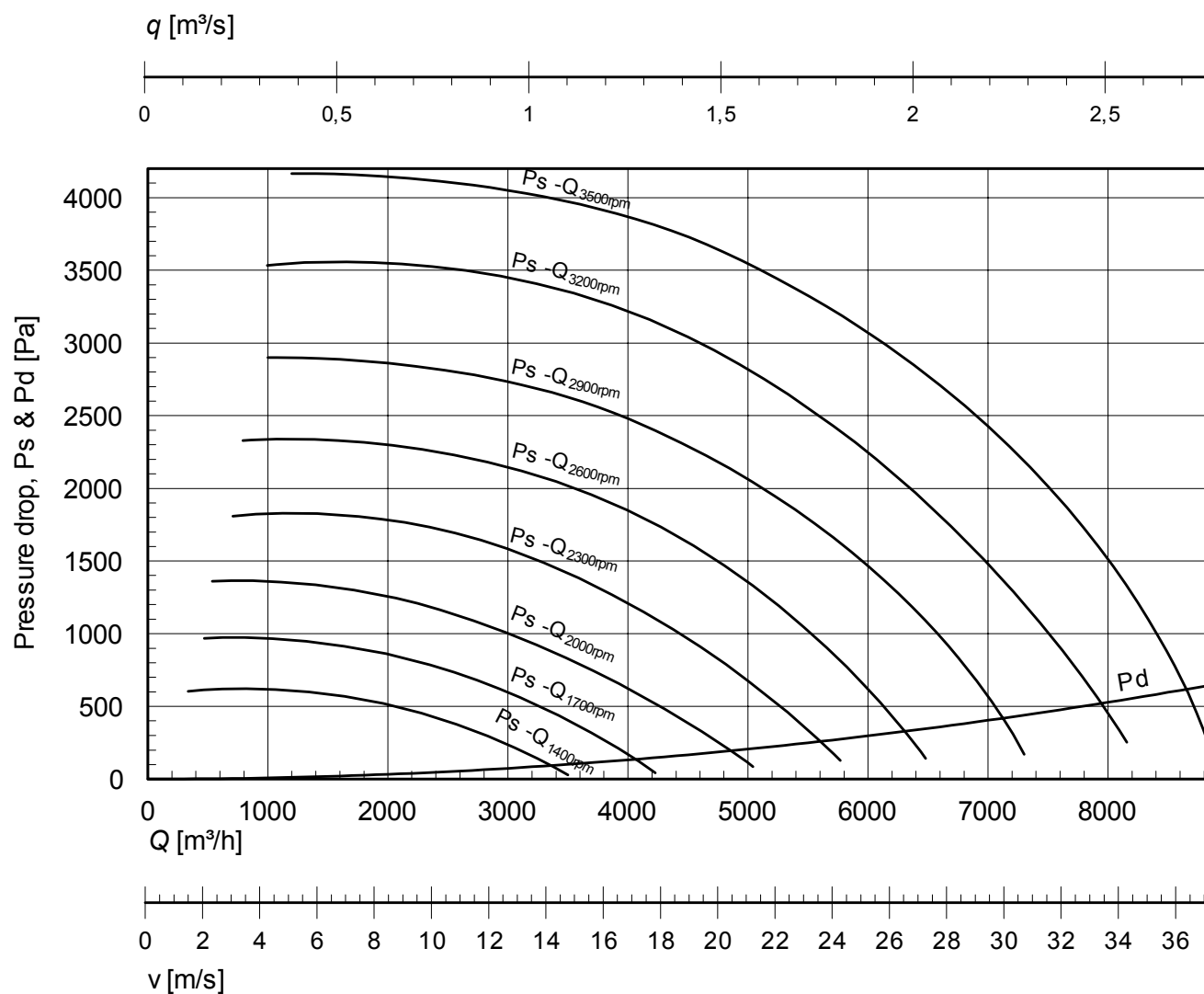
MSV 250 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 315 B

Imp: B12x450x90



Nyborg10.prs/6



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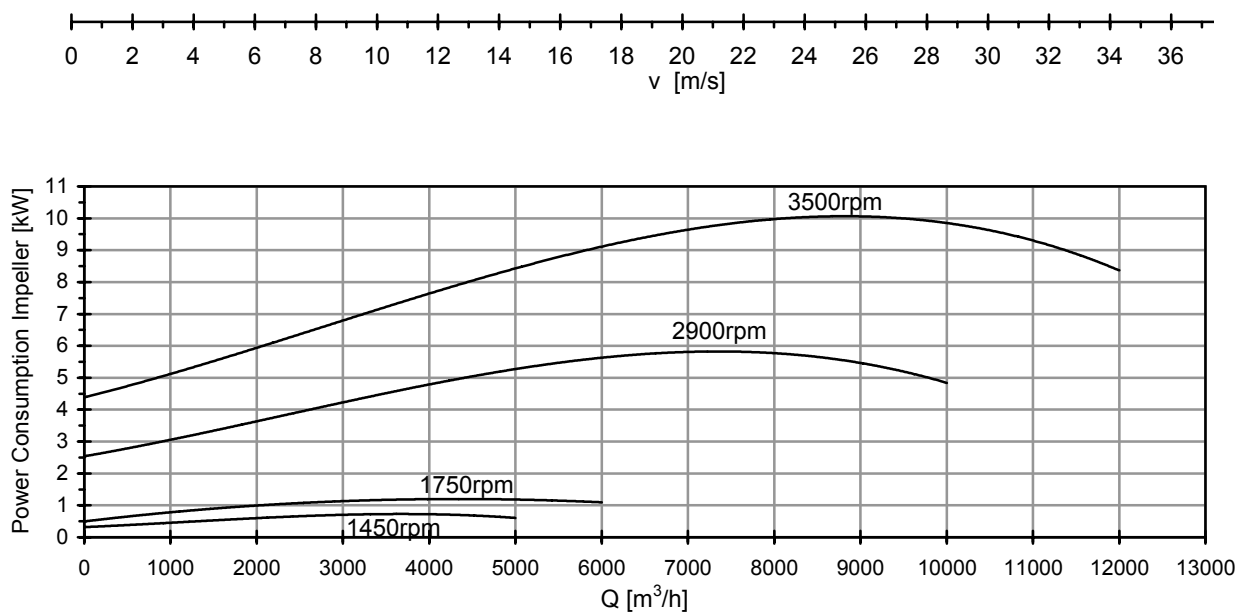
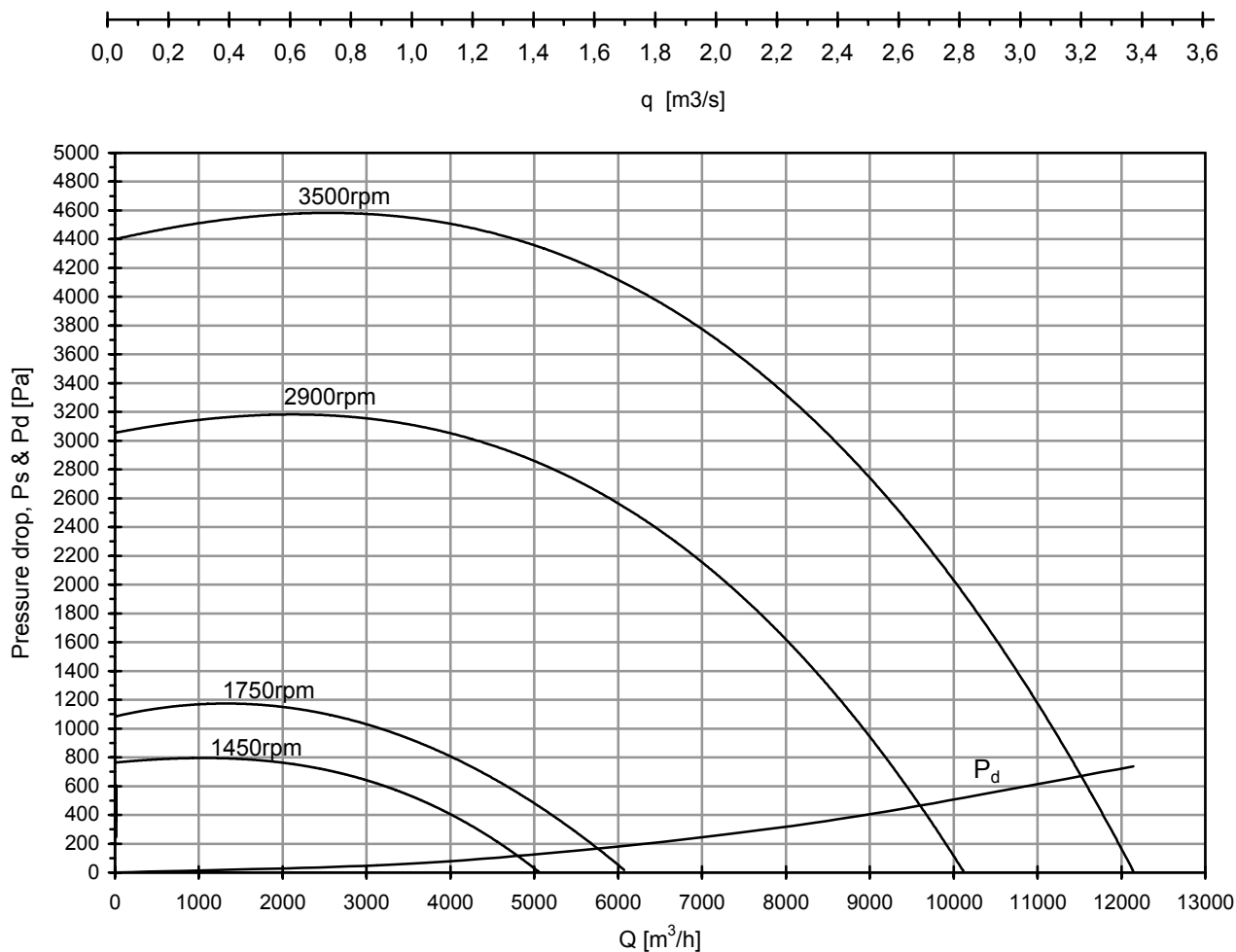
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NYBORG MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 350 B

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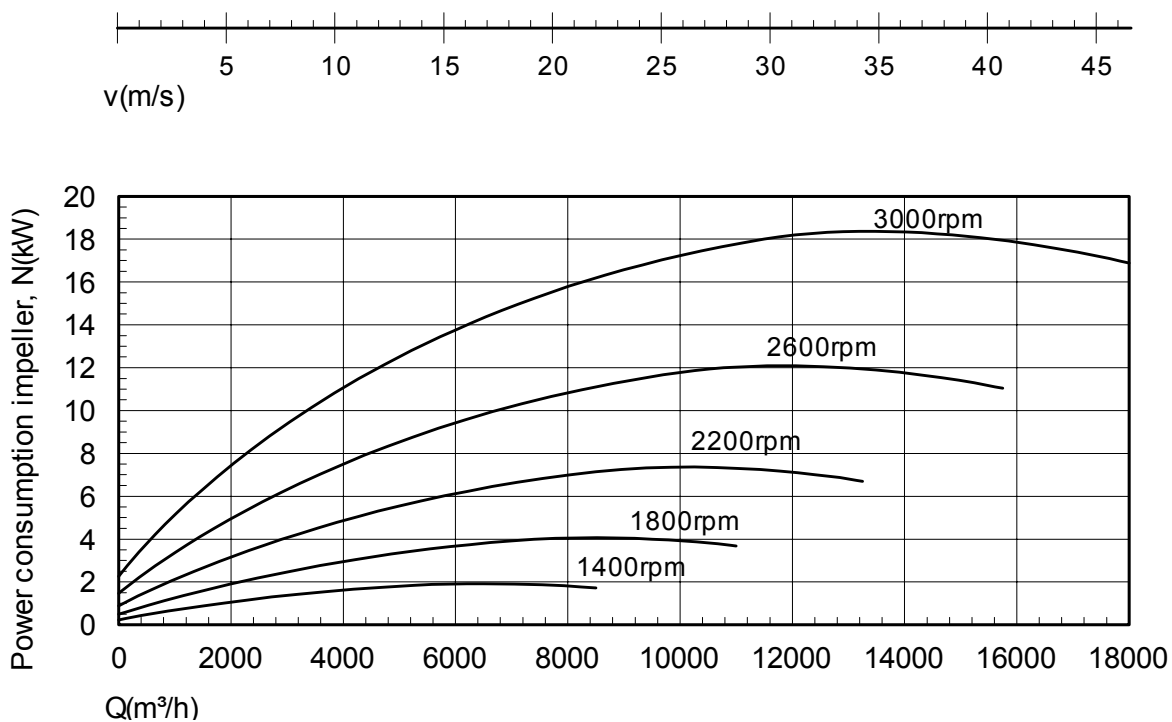
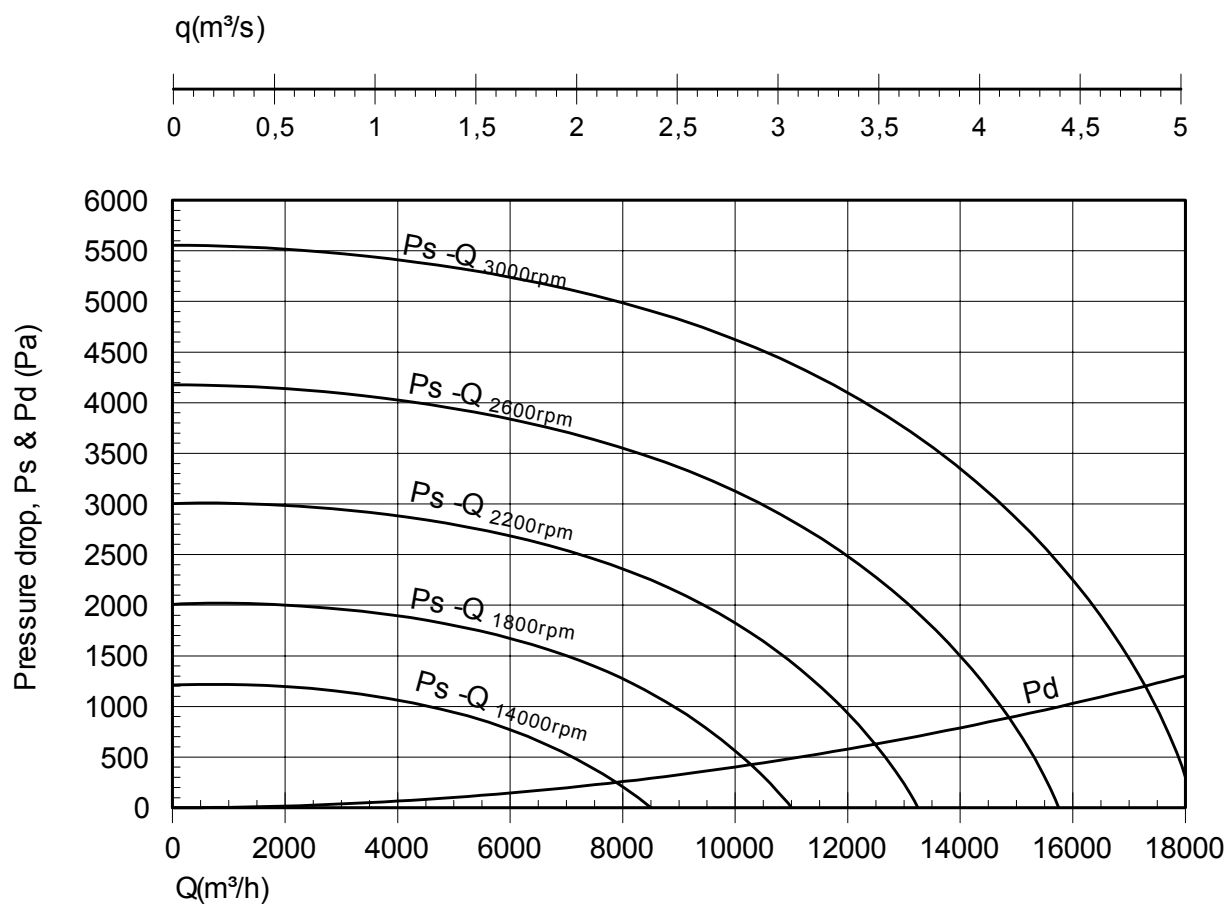




MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 400 B

Imp: B12x620x95



Nyborg14.prs/1



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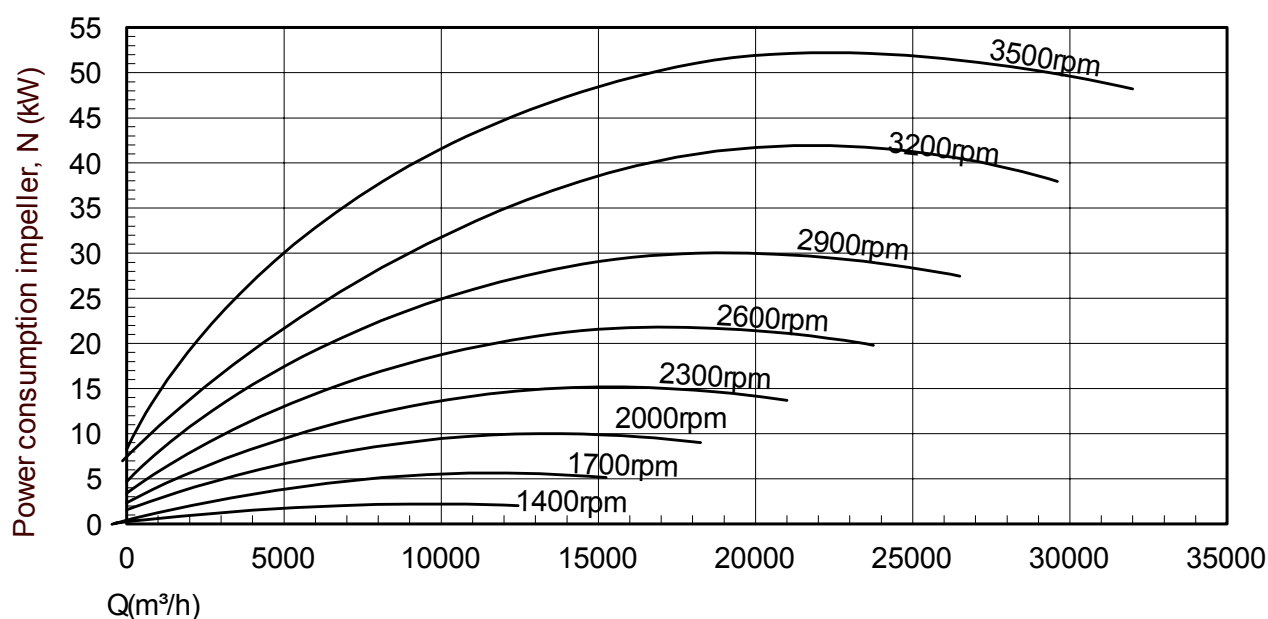
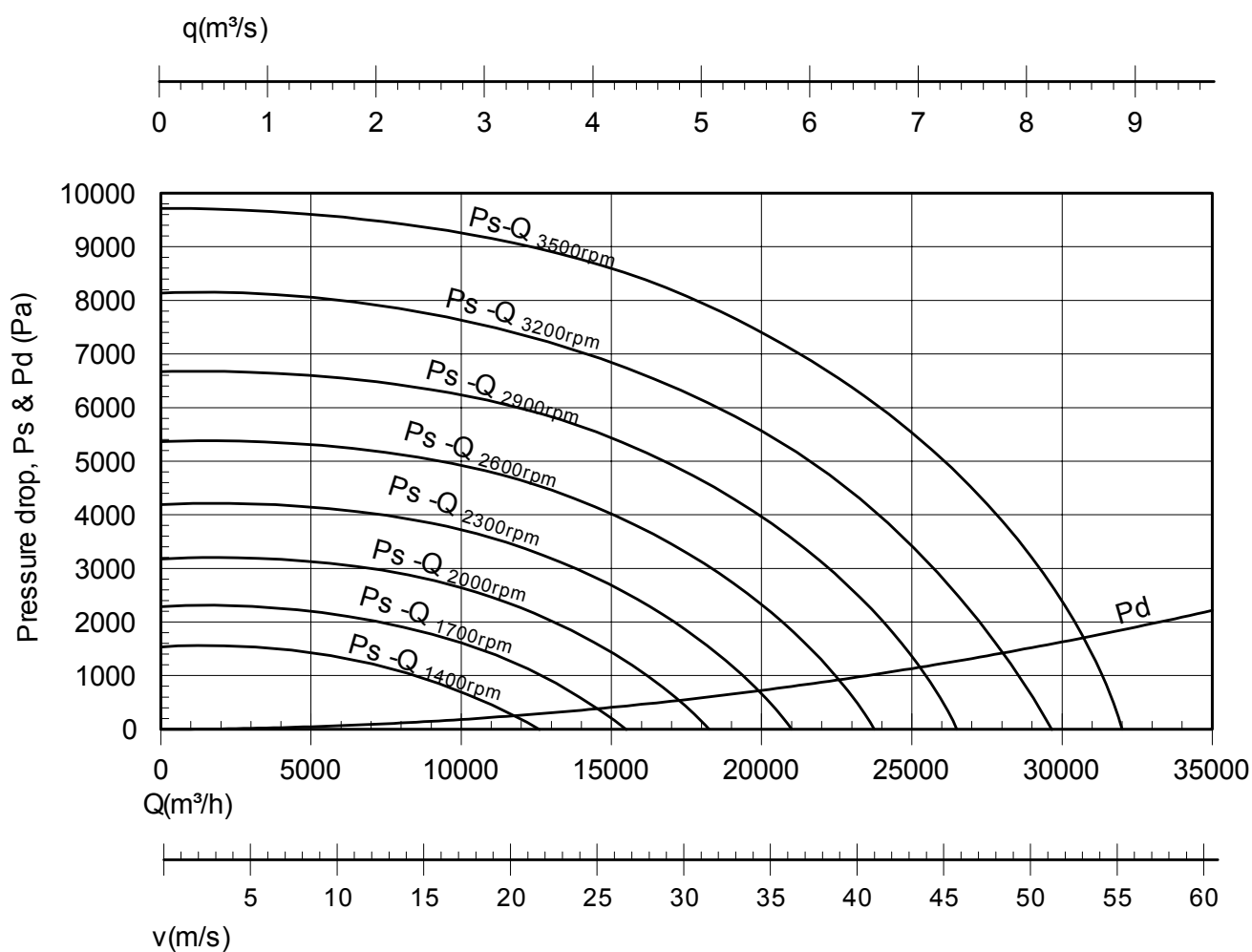
MSV 400 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 450 B

Imp: B16x680x110



Nyborg15.prs/3



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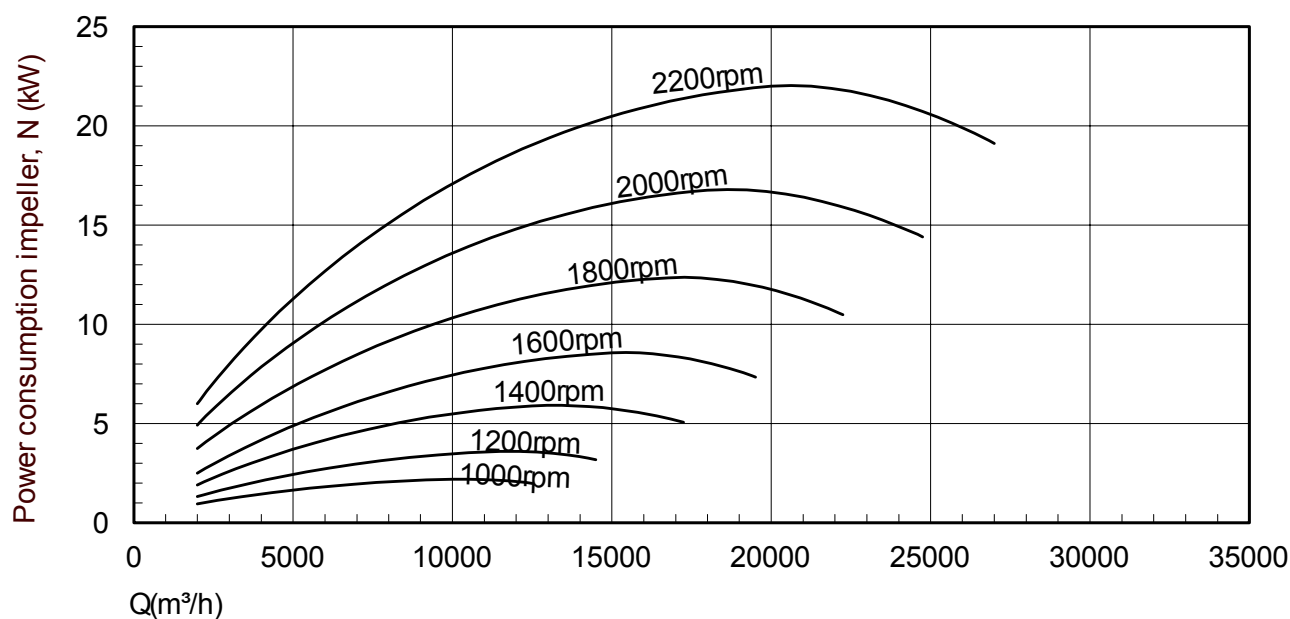
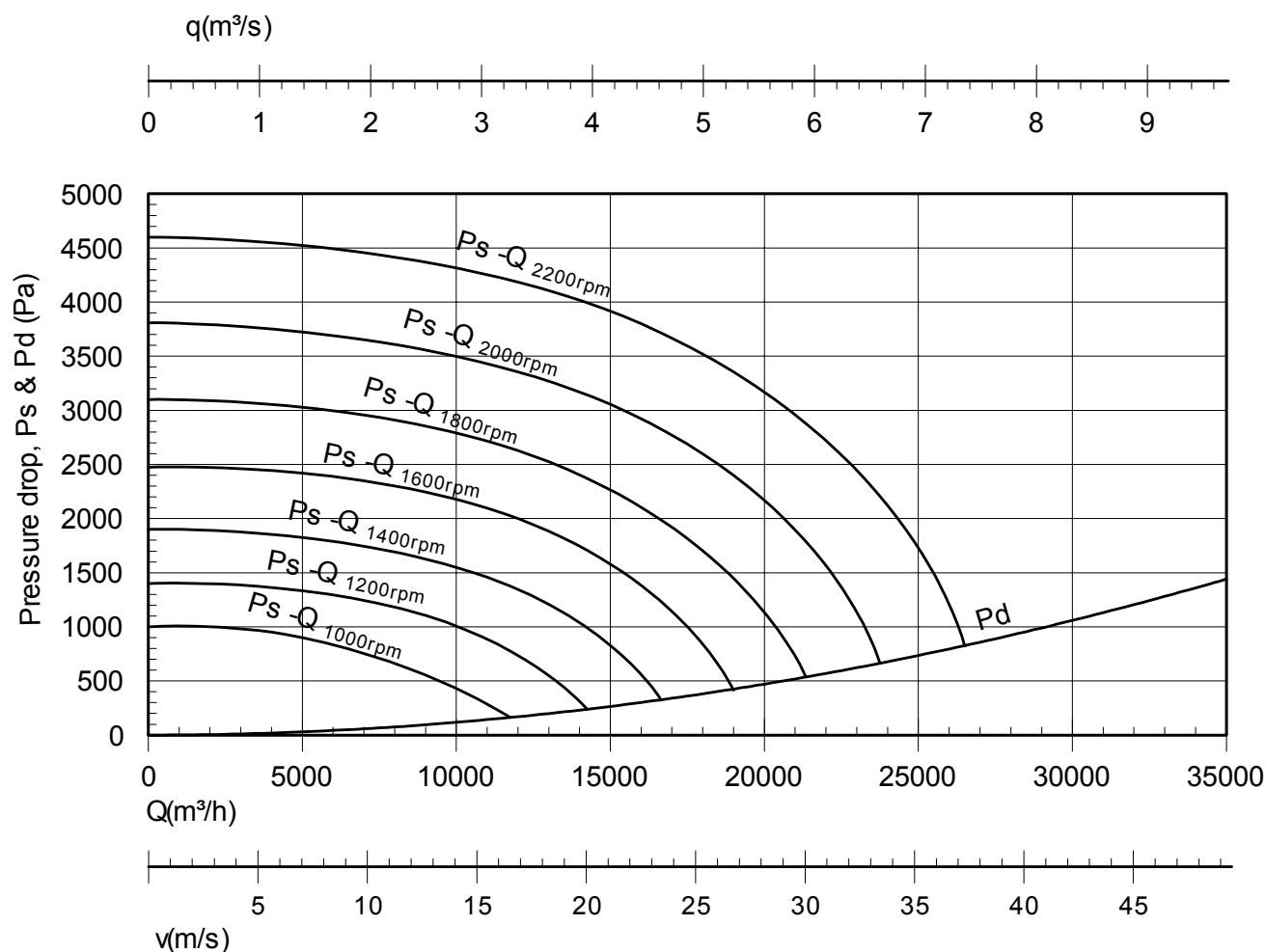
MSV 450 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 500 B

Imp: B12x750x120



Nyborg15.prs/12



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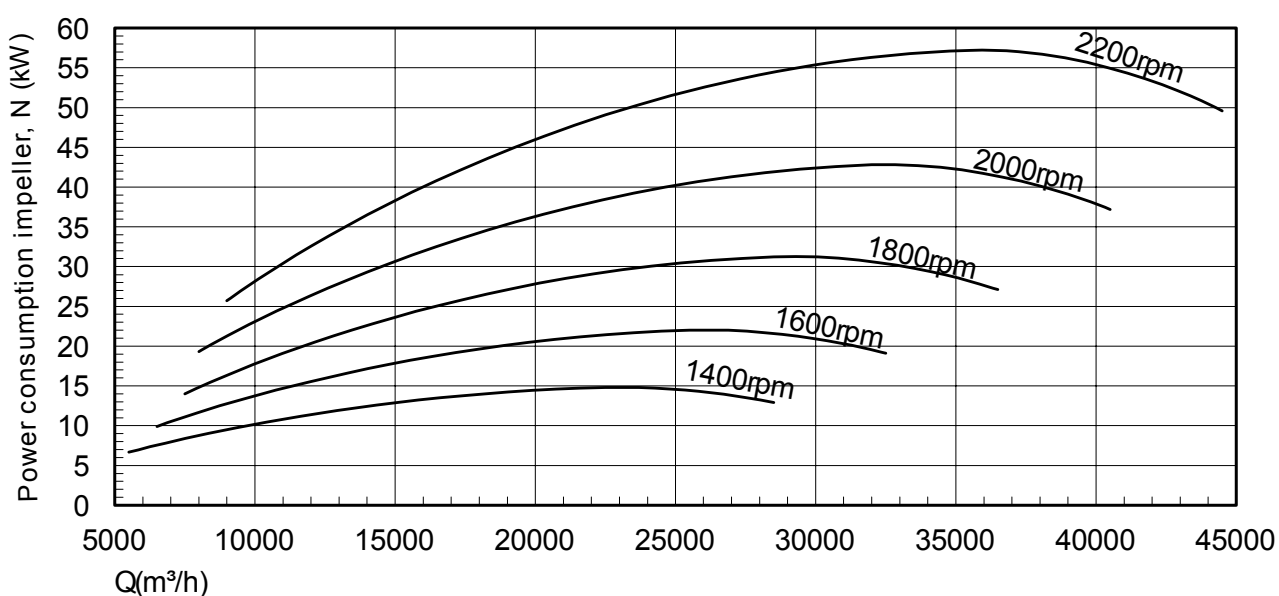
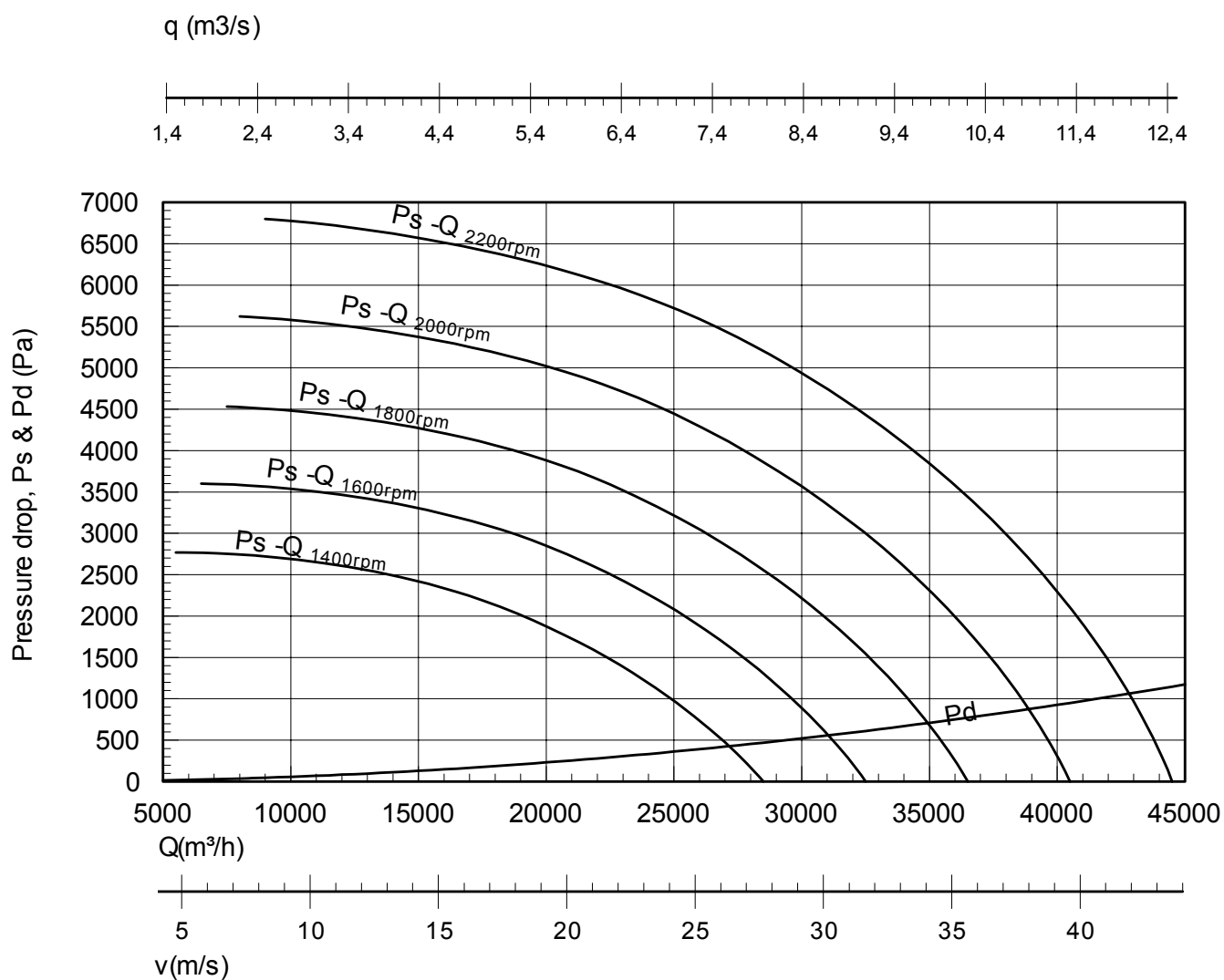
MSV 500 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 600 B

Imp: B12x880x150



Nyborg14.prs/2



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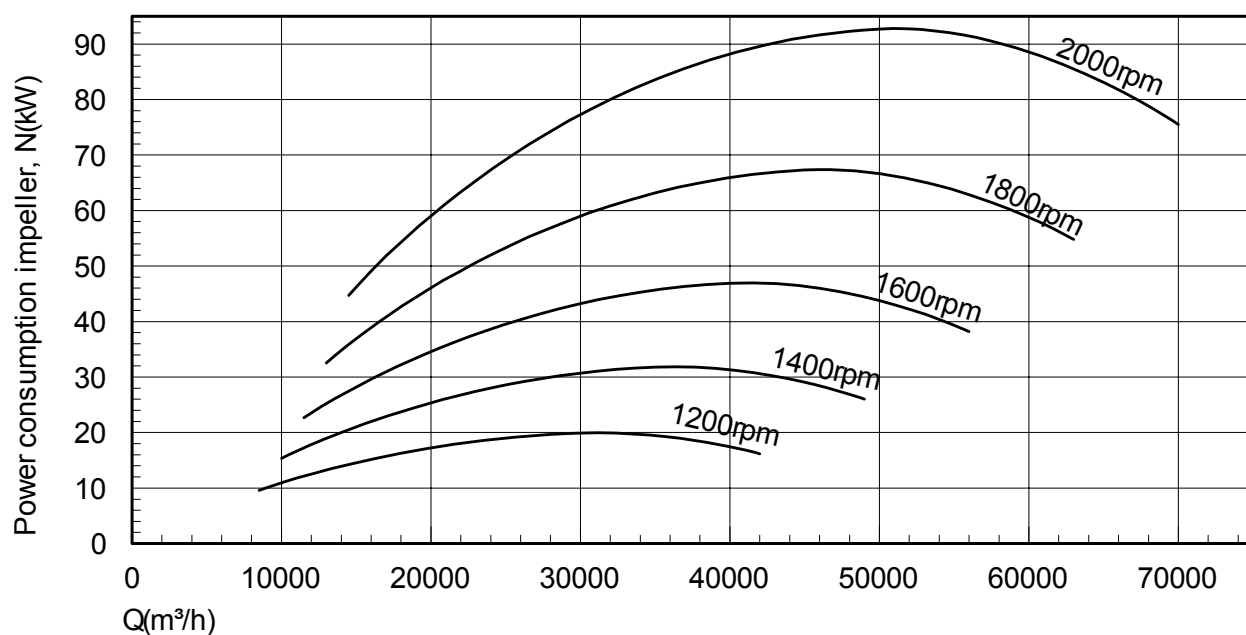
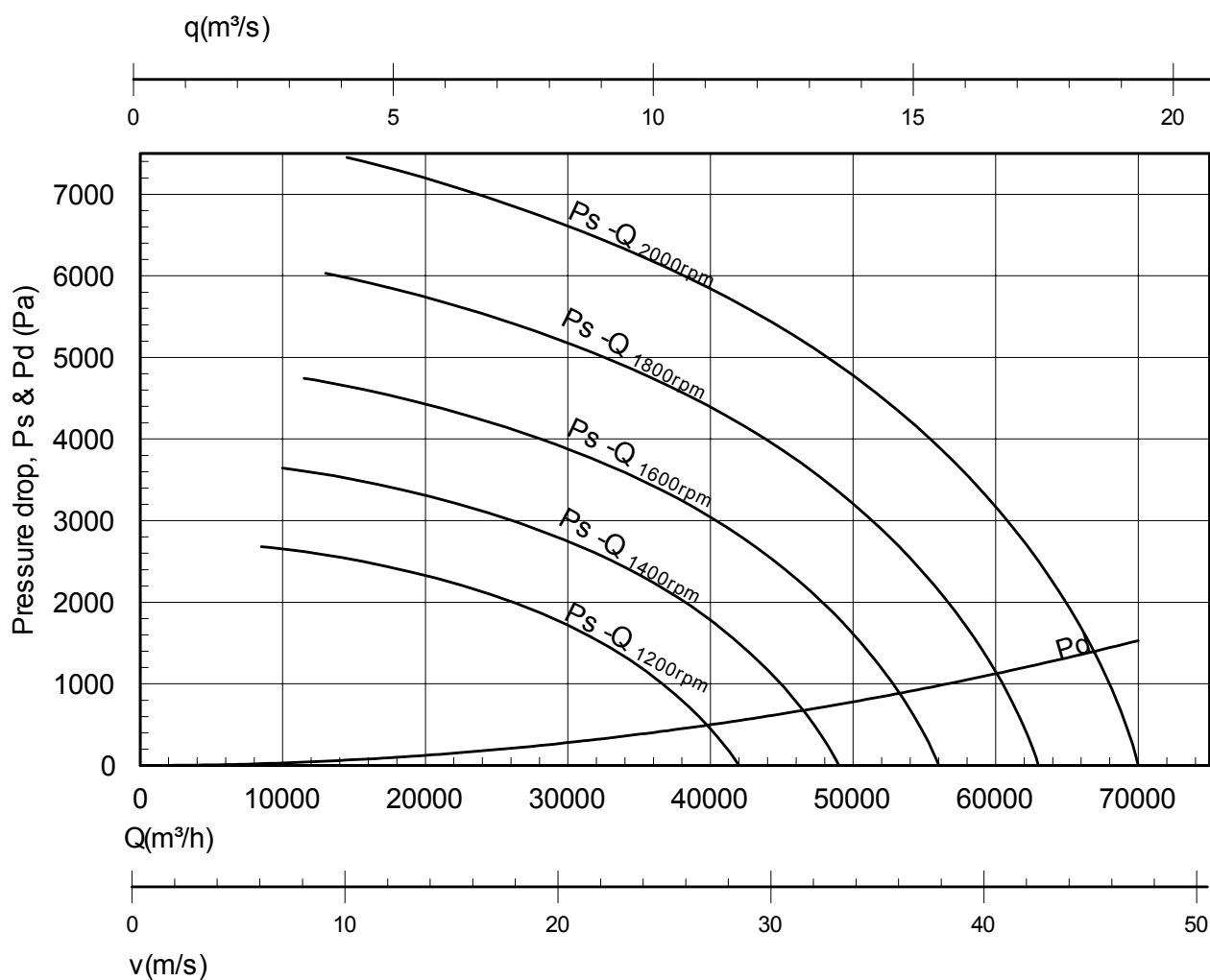
MSV 600 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 700 B

Imp: B12x1050x170



Nyborg14.prs/5



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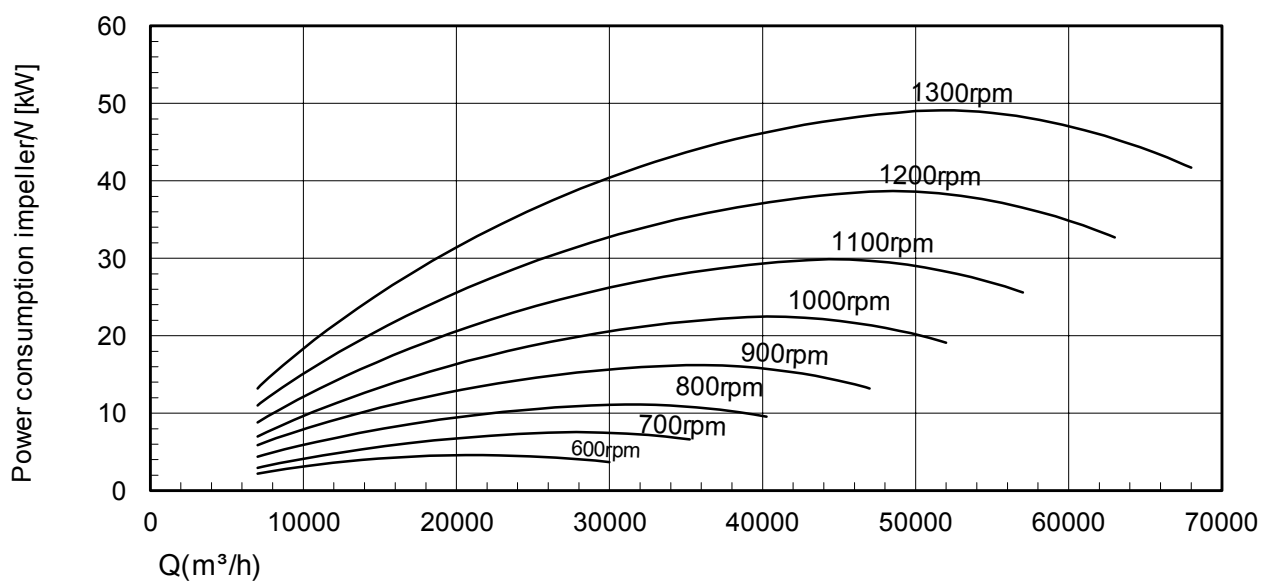
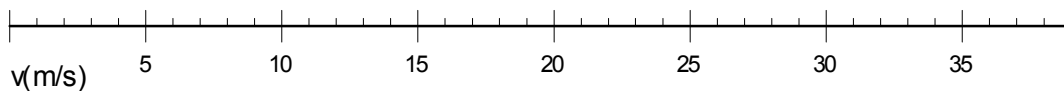
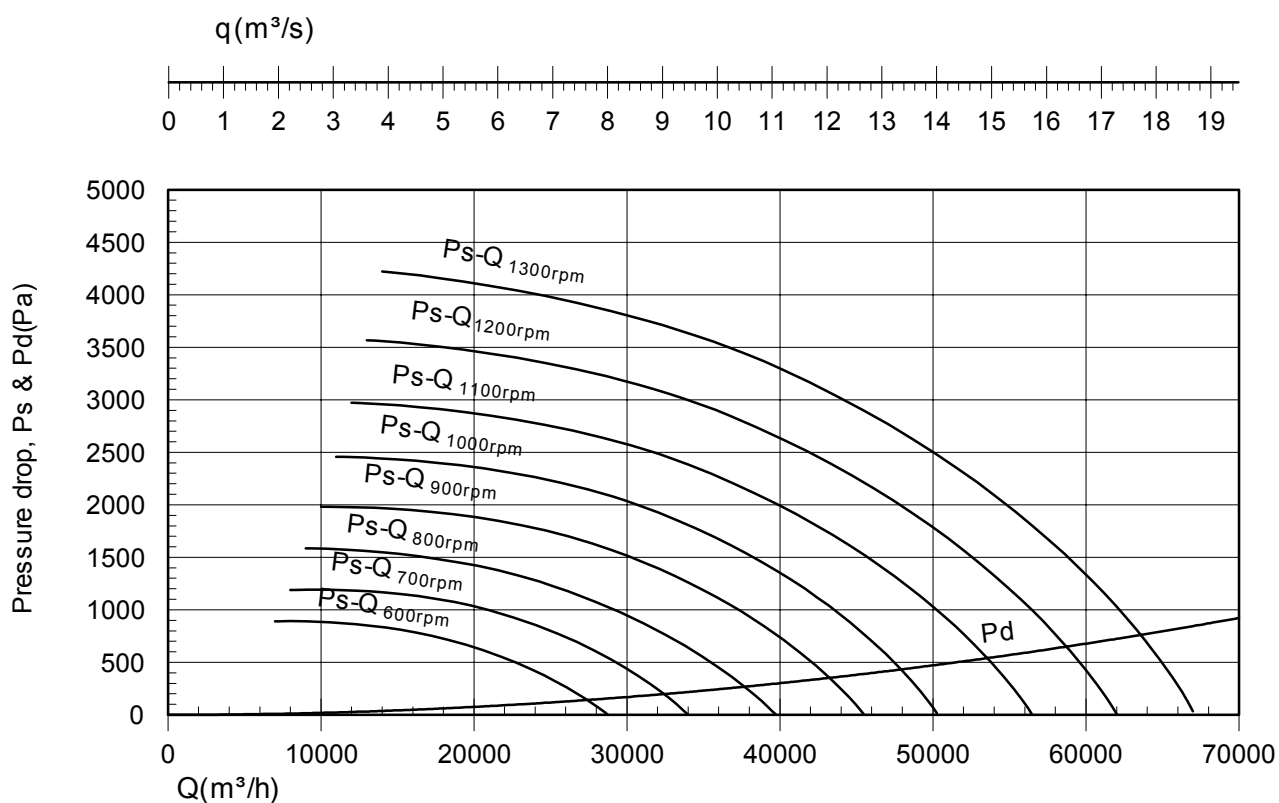
MSV 700 B



MEDIUM PRESSURE CENTR. FAN PERFORMANCE DATA

MSV 800 B

Imp: B16x1200x190



Nyborg20-12



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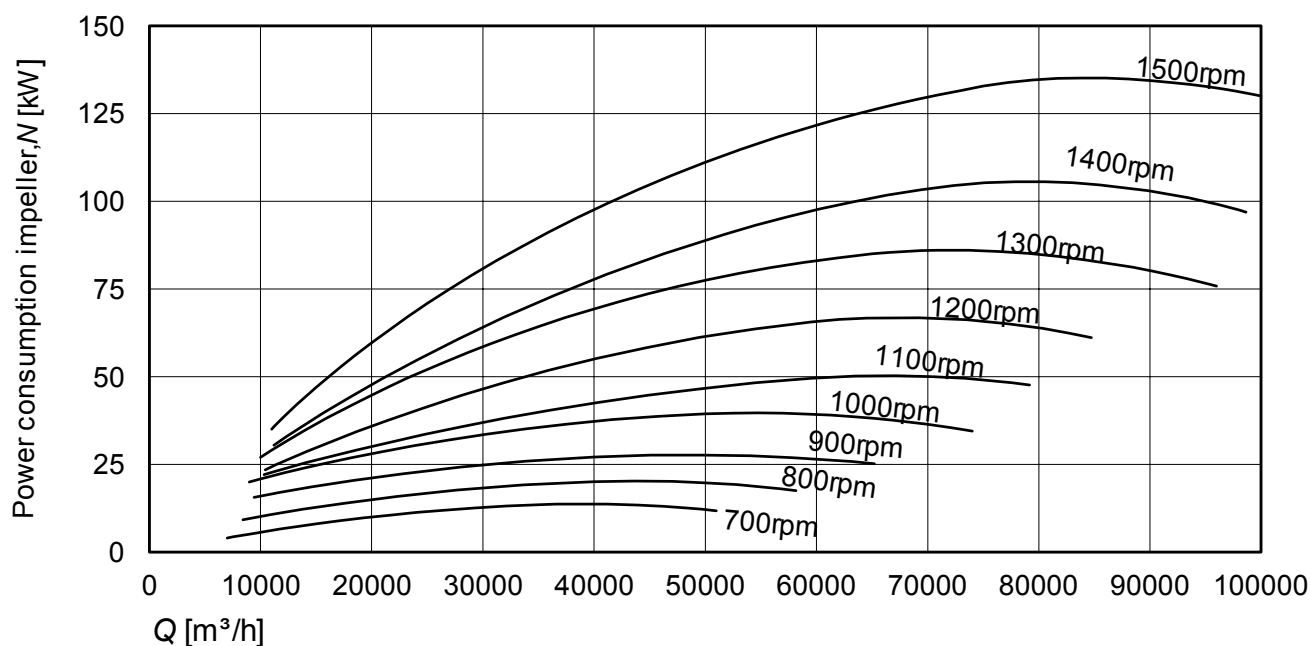
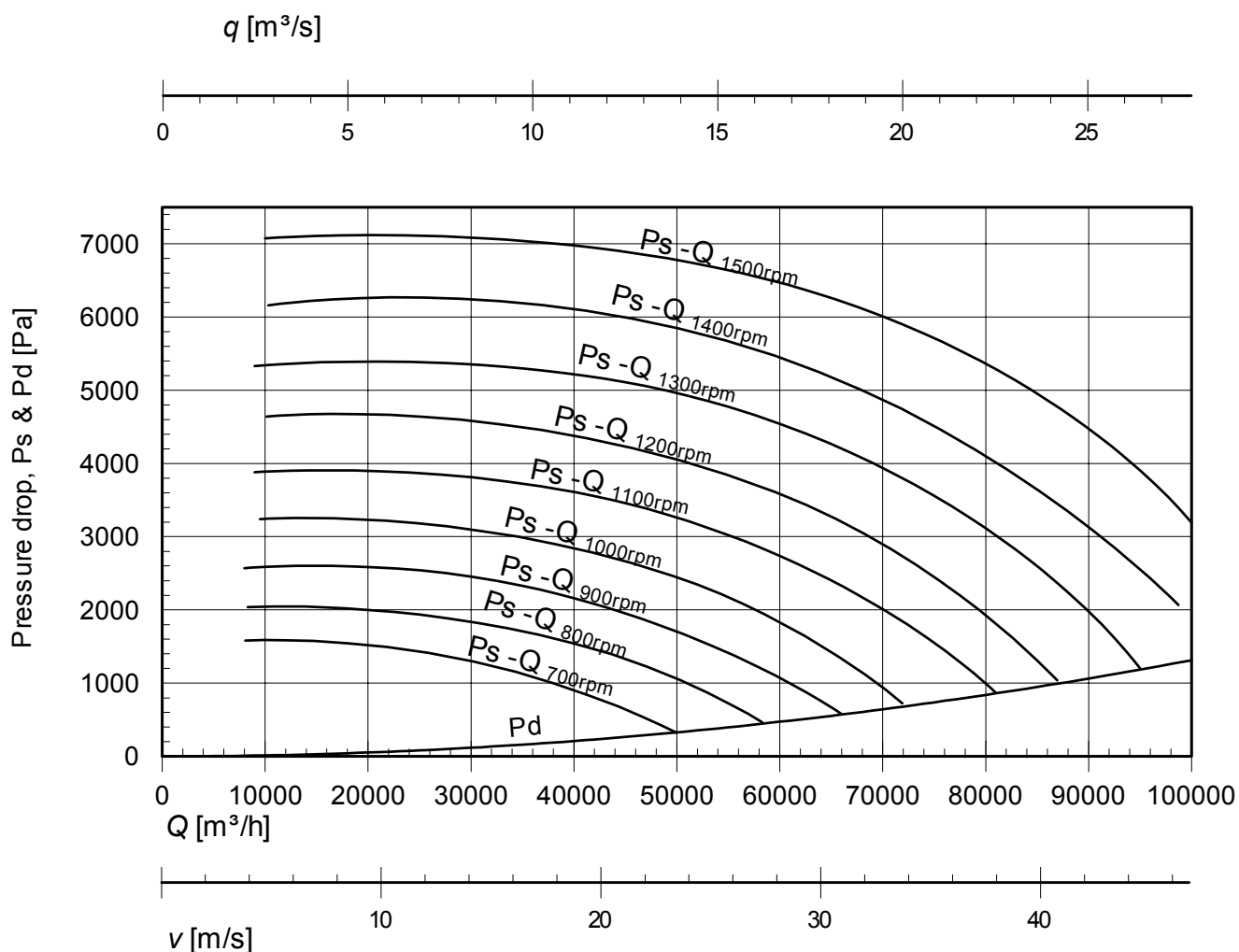
MSV 800 B



MEDIUM PRESS. CENTR. FAN PERFORMANCE DATA

MSV 900 B

Imp: B16x1350x220



Nyborg12.prs/10



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MSV 900 B



PAINTING SPECIFICATION ALUMINIUM FANS

Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Washing	-	Aluminate (acid)	Alu-Nor
2	Cleaning	-	Water	-

Painting : Color RAL 5012

Step No	Description	Thickness	Type	Manufacturer
1	Primer	30 my	Joton Washprimer	Jotun
2	Topcoat	40 my	Jotun Ultra Topcoat	Jotun

GALVANIZE SPECIFICATION STEEL FANS

Surface preparation:

Step No	Description	Thickness	Type	Manufacturer
1	Cleaning	-	Nitric acid	-
2	Galvanizing	80my	Zn	-