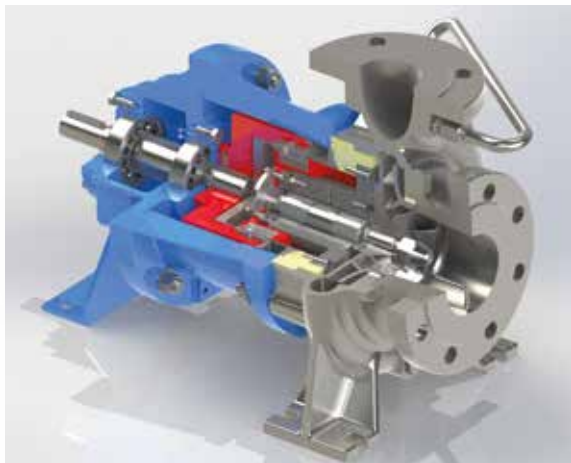


MAGNETICALLY COUPLED STANDARD CHEMICAL PUMPS

acc. to ISO 2858 - DIN 24256

Series MCA



PRODUCT DESCRIPTION

The magnetically coupled standard chemical pumps of the MCA series are centrifugal pumps based on the flow machine principle. Magnetically coupled pumps do not require shaft seals and operate absolutely leak-free. The power transmission from the drive to the hydraulic part of the pumps takes place without contact by means of strong NdFeB or CoSm permanent magnets, whereby the pumped medium is conveyed safely and maintenance-free. The pump series is made of the highest quality materials, such as stainless steel (1.4401), Hastelloy C 276 or titanium. The pumps are designed according to ISO 2858 and DIN 24256 as standard. All pumps of this series meet the highest standards of quality and cost-effectiveness, as well as safety, longevity and environmental compatibility, with a convincing price / performance ratio.

TECHNICAL DATA (STANDARD)

Capacity flow:	min. 4,0 m³/h max. 275 m³/h
Discharge height:	max. 95 mWs
Design pressure:	PN 16 bar
Temperature:	150°C
Viscosity, max.:	250 mPa s
Density, max.:	1,9 kg/dm³

MATERIALS

Housings:	Stainless Steel 1.4401
Bearings:	SiC
Gaskets:	Graphite

DESIGN FEATURES

- **Double slide bearing suspension**
and double axial thrust compensation minimizes axial force and moment load during frequent load changes. Standard SiC plain bearings ensure maximum corrosion resistance with optimum sliding properties (minimal friction losses).

- **The integrated by-pass lubrication**
offers optimal emergency running properties in the event of an accident, such as for dry running or operation against shut-off valves closed on the pressure side. At the same time, the plain bearings are lubricated uniformly everywhere and the temperatures in the plain bearing area are constantly minimized.

- **The dual-back pull-out design**
allows quick replacement of wear parts without having to disconnect the pumps from the piping system.

- **The Quick Change Cartridge System**
offers easy replacement of wearing parts in just a few minutes, without the need for special tools.

- **ATEX versions**

All pumps of the MCA series are available for use in potentially explosive atmospheres.
Type of protection Ex II2G T3-5.

- **Special versions**

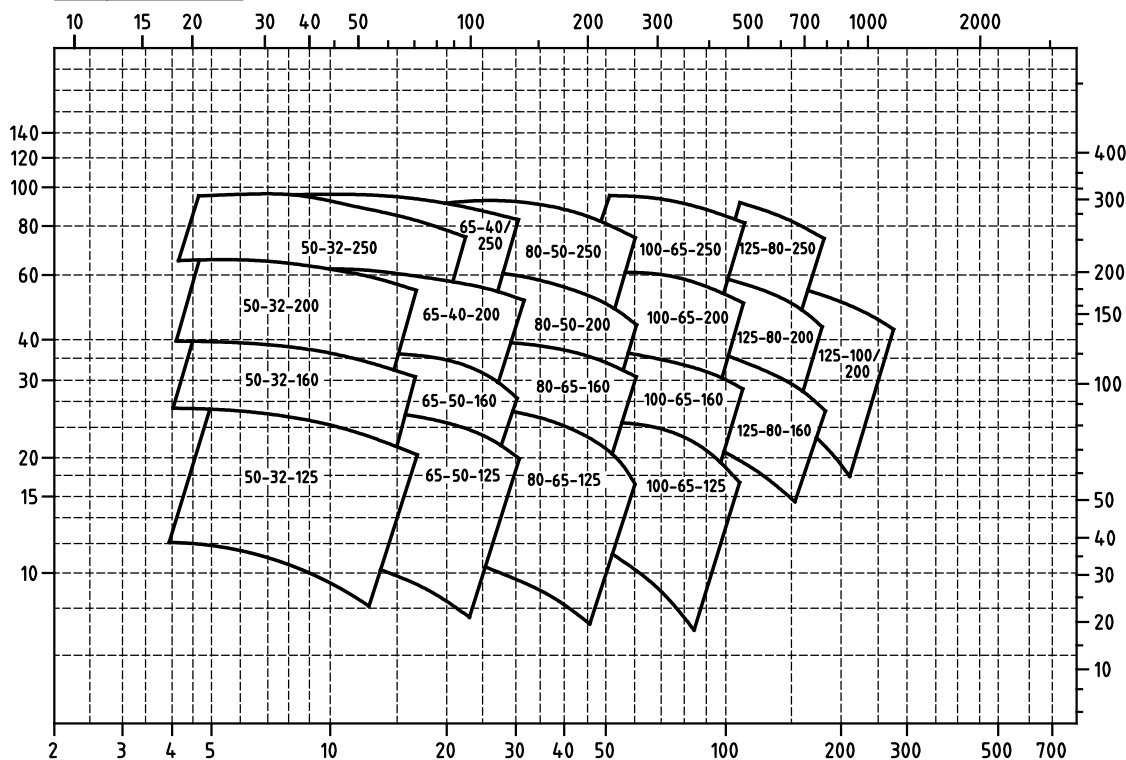
Special versions for high or low temperature applications (-150 °C up to + 350 °C), as well as special pressure stages, are available on request.

- **special materials**

Hastelloy C 276, duplex 22% Cr, titanium

Q (U.S. gpm)

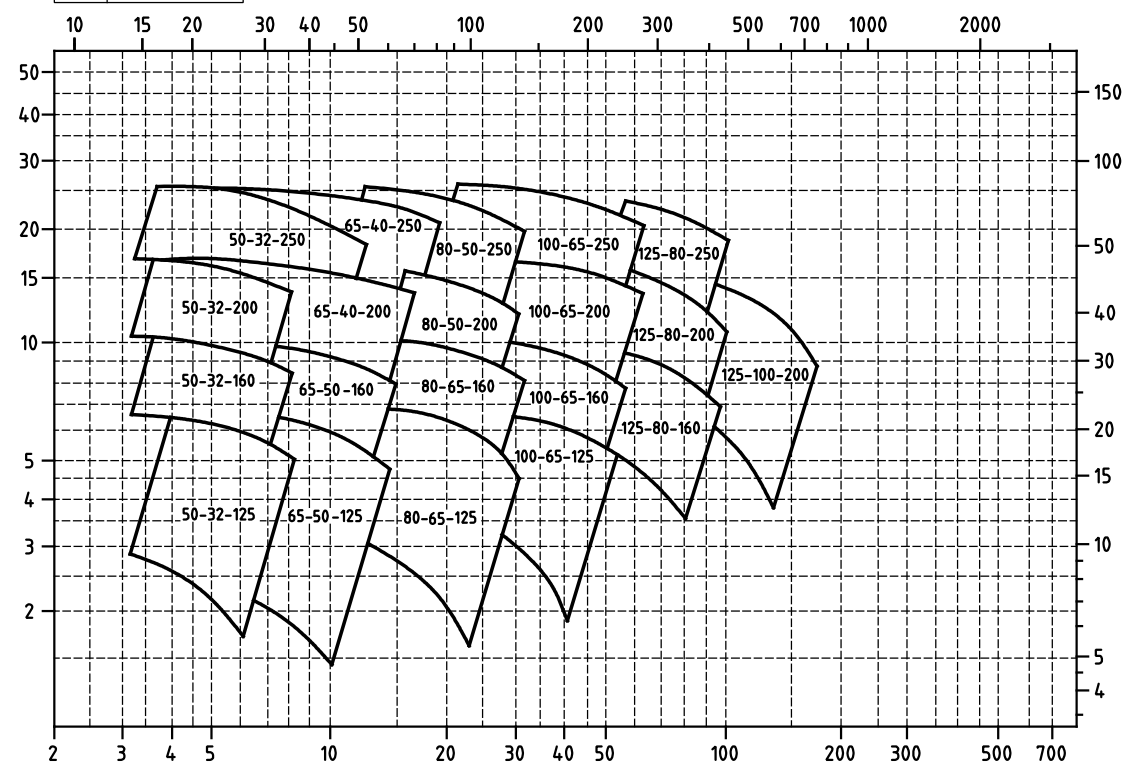
2900 RPM (50Hz)



Q (m³/h)

Q (U.S. gpm)

1450 RPM (50Hz)



Q (m³/h)



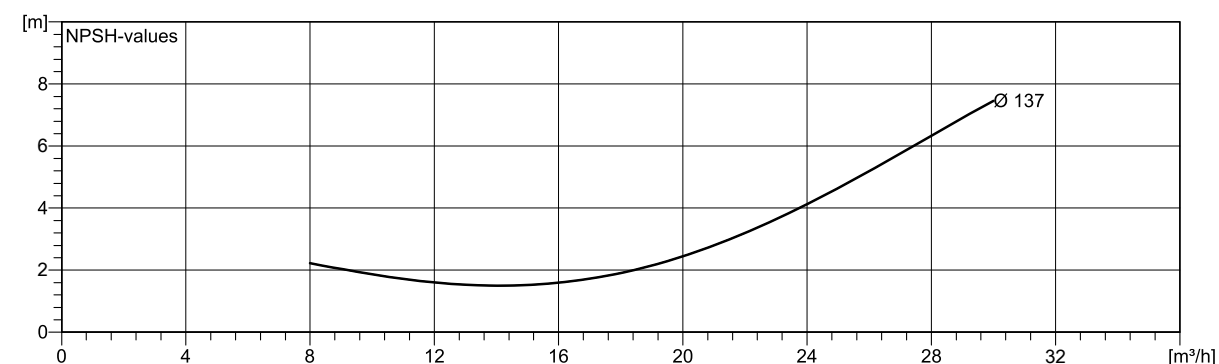
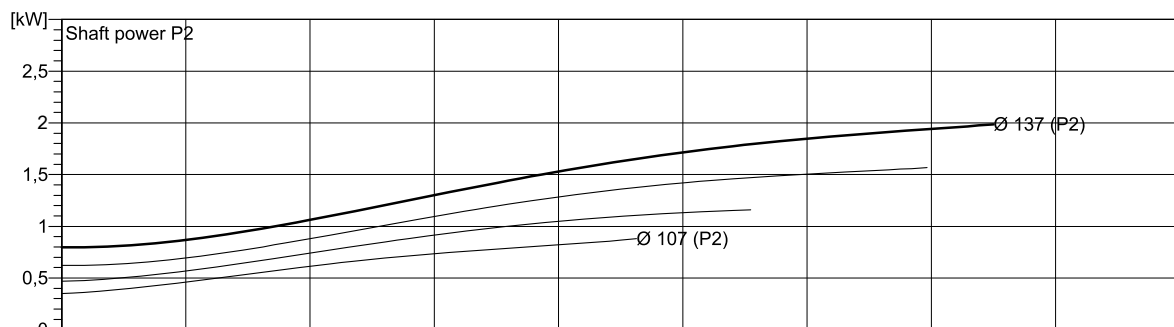
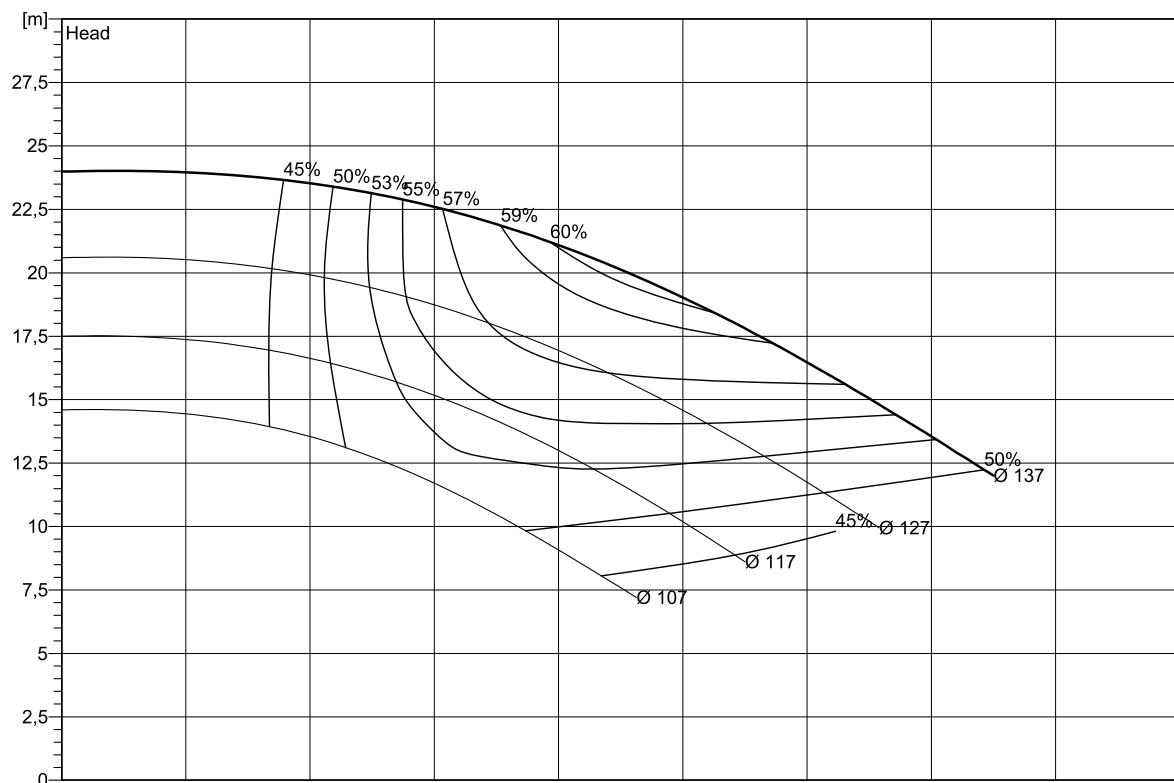
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 Rathenaustraße 2
 D-35394 Gießen
www.march-pumpen.com
info@march-pumpen.com

Baureihe / Series: MCA

Typ / Type: Family Curves

Motor Speed: 2900 / 1450 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 50 PN 16	Discharge nozzle: DN 32 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

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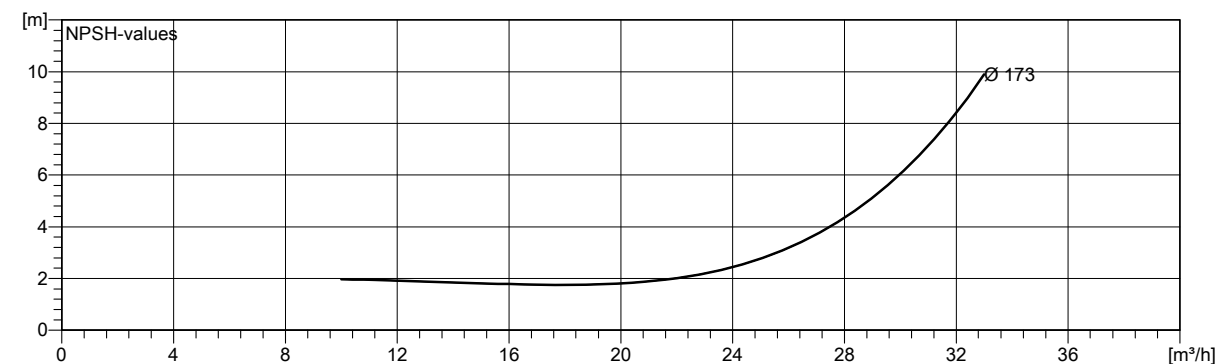
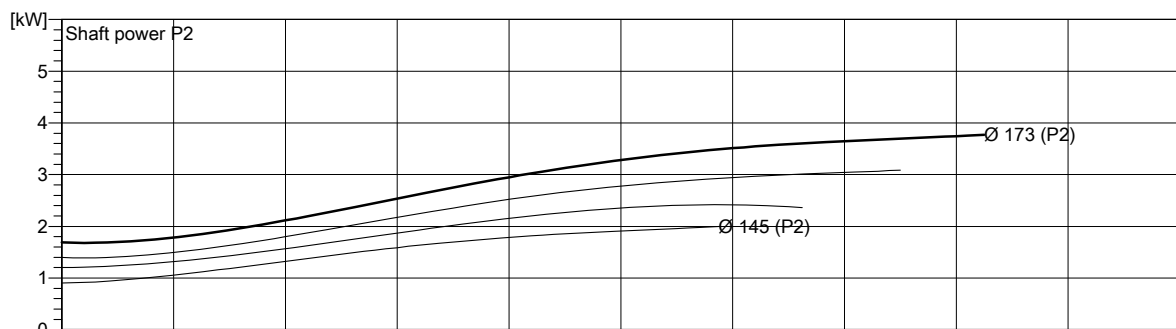
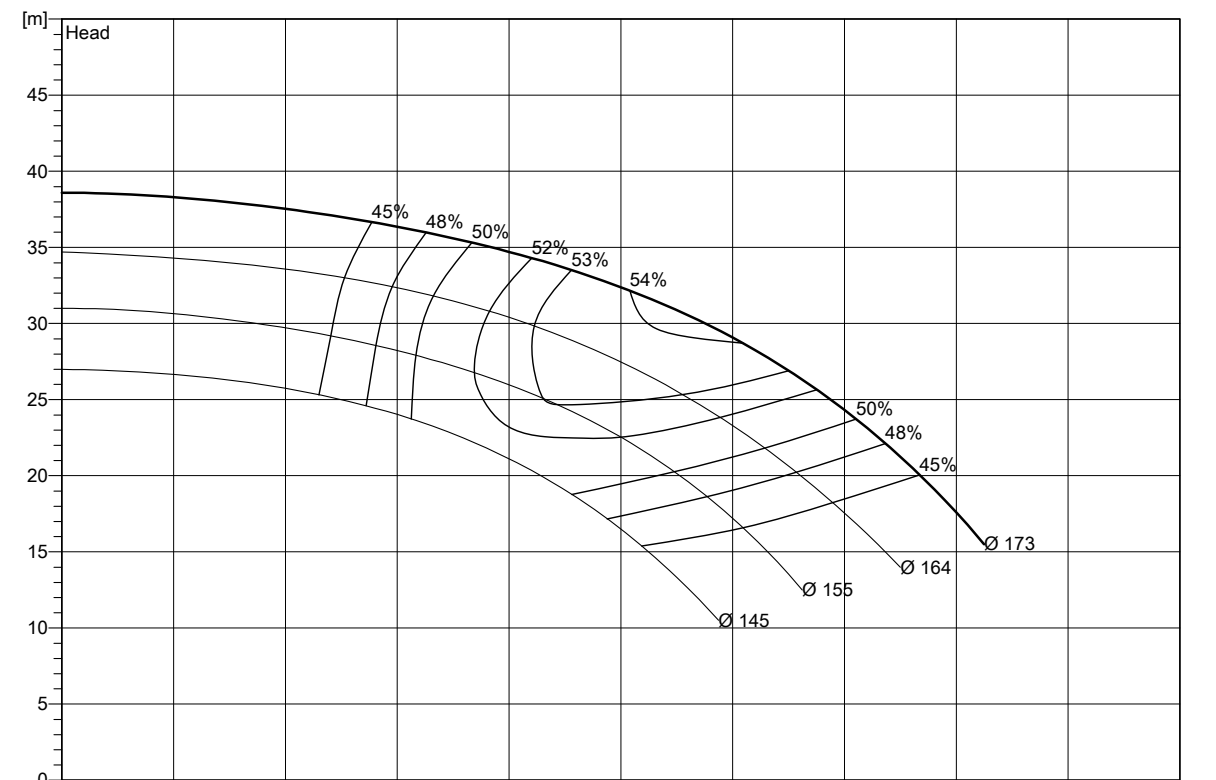
Typ / Type:

MCA 50-32-125

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:			
		Suction nozzle: DN 50 PN 16	Discharge nozzle: DN 32 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

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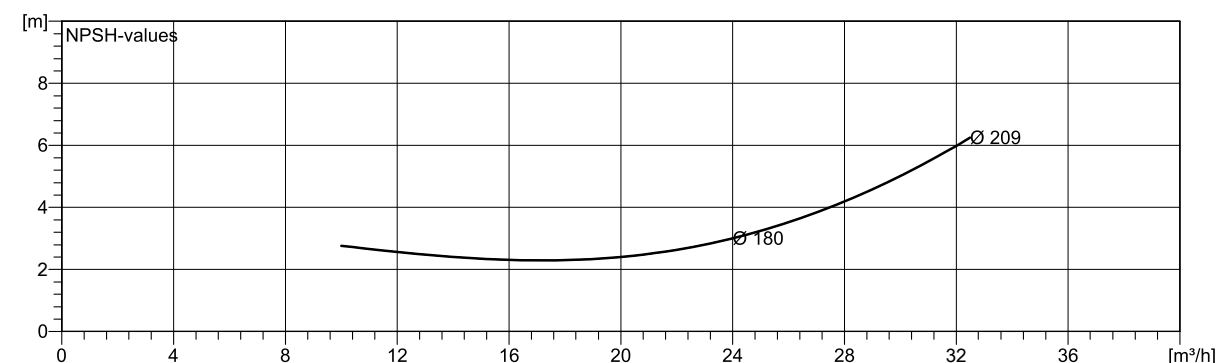
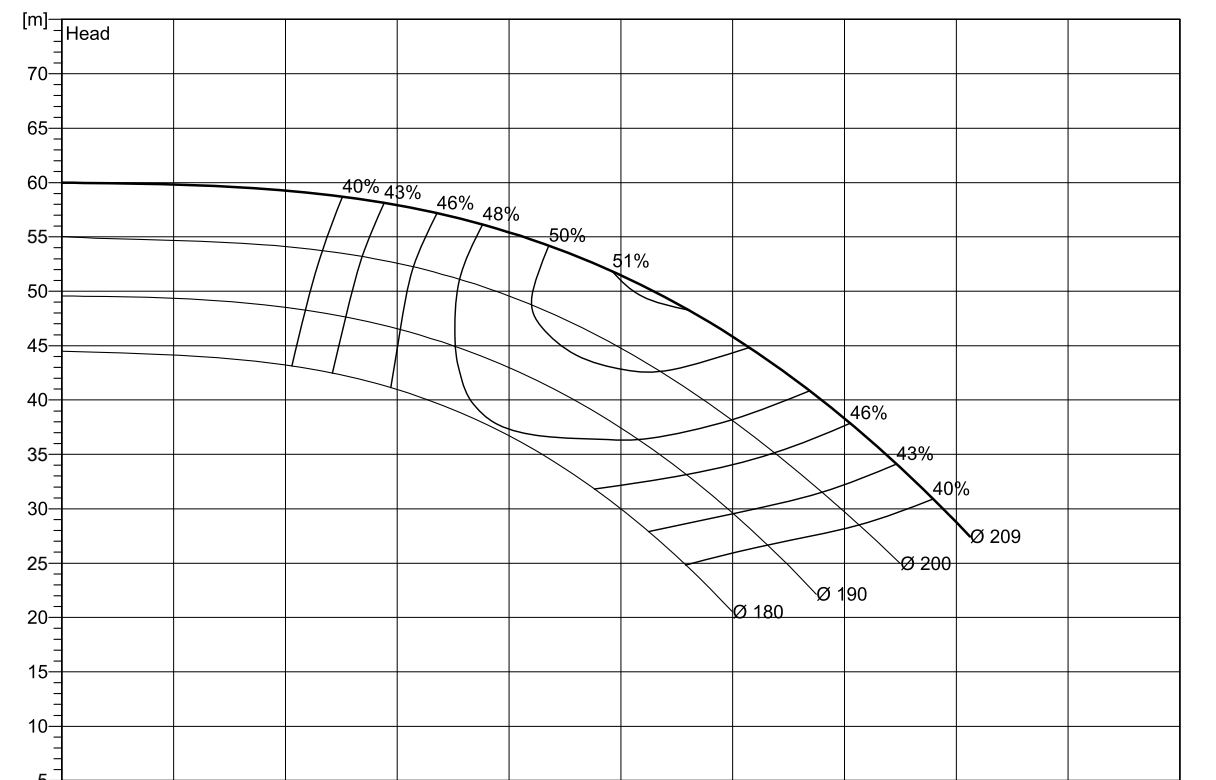
Typ / Type:

MCA 50-32-160

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 50 PN 16	Discharge nozzle: DN 32 PN 16



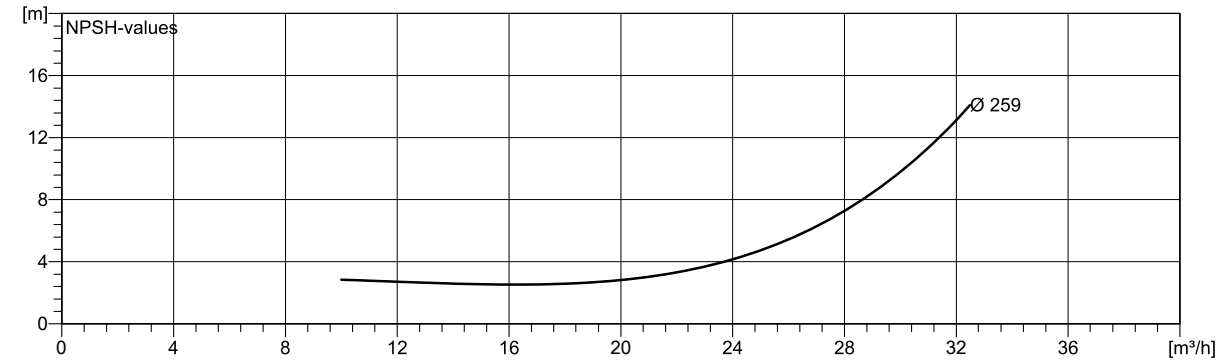
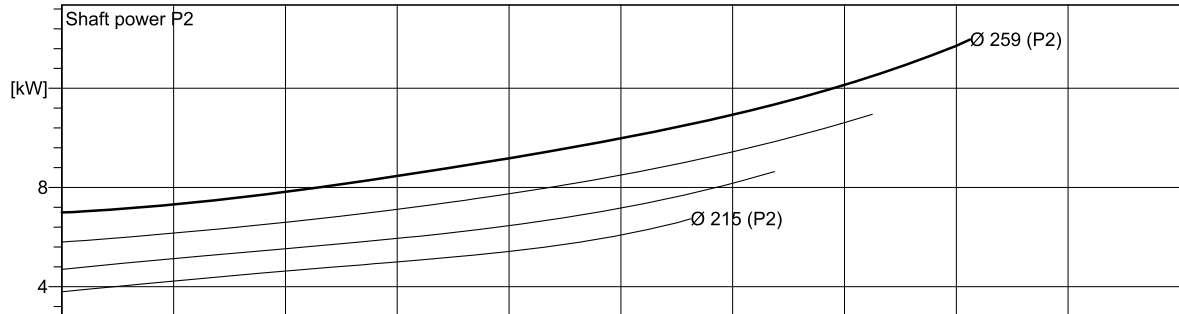
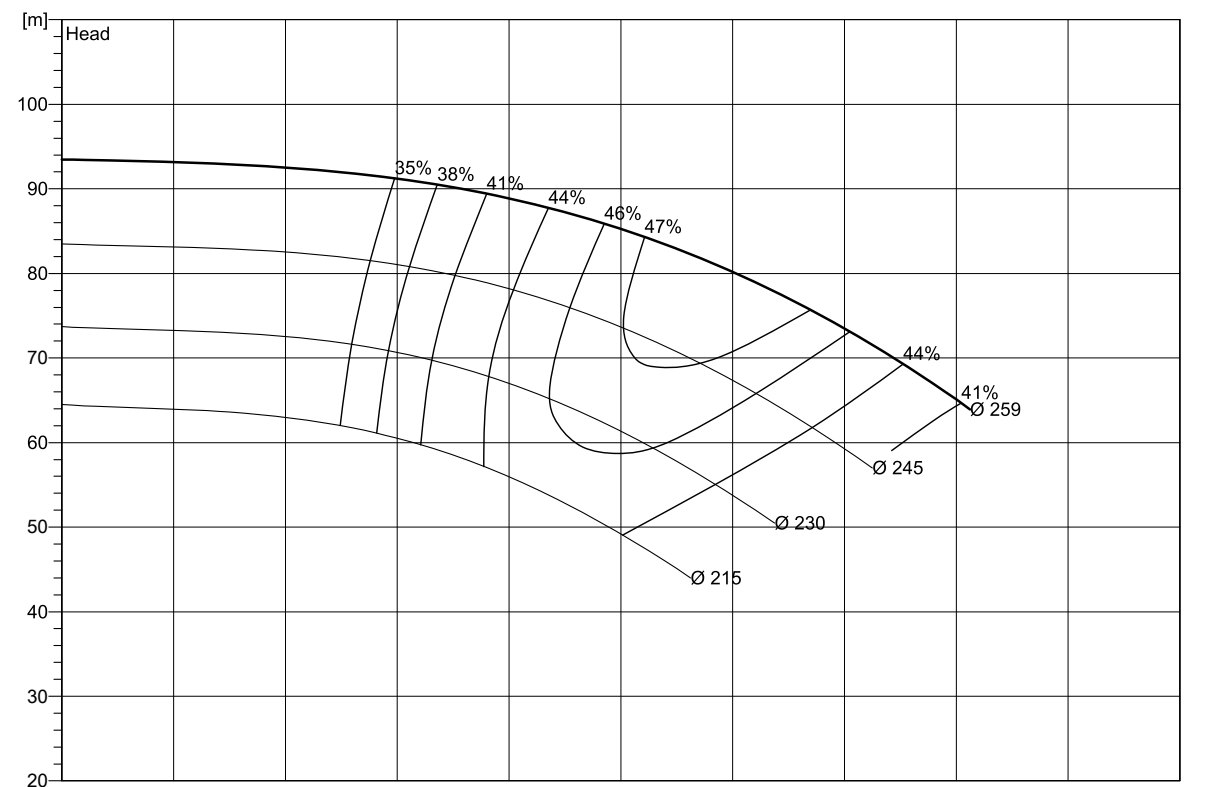
Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series: **MCA**
Typ / Type: **MCA 50-32-200**
Standard Motor: **2900 1/min**

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 50 PN 16	Discharge nozzle: DN 32 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)

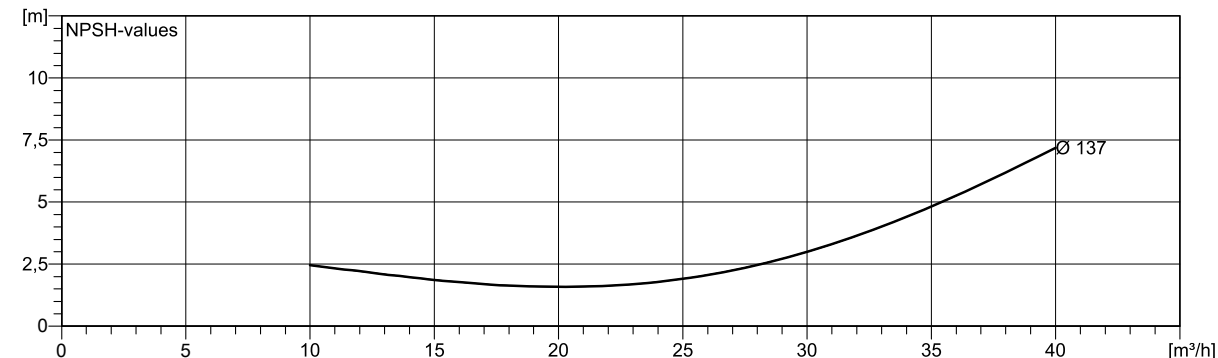
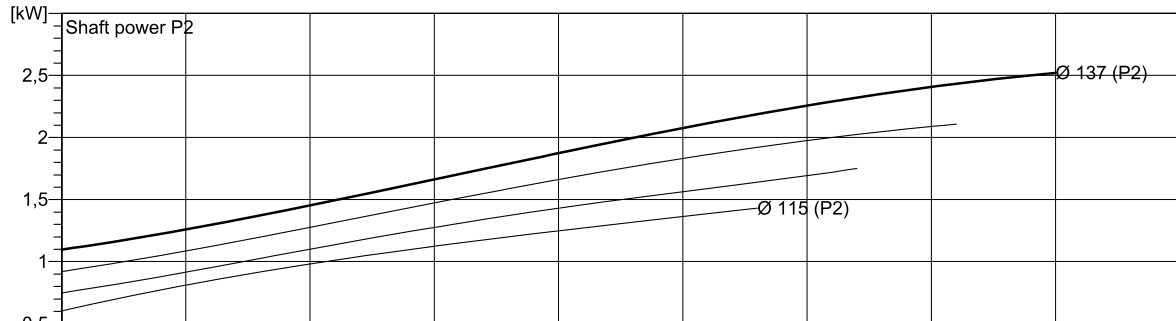
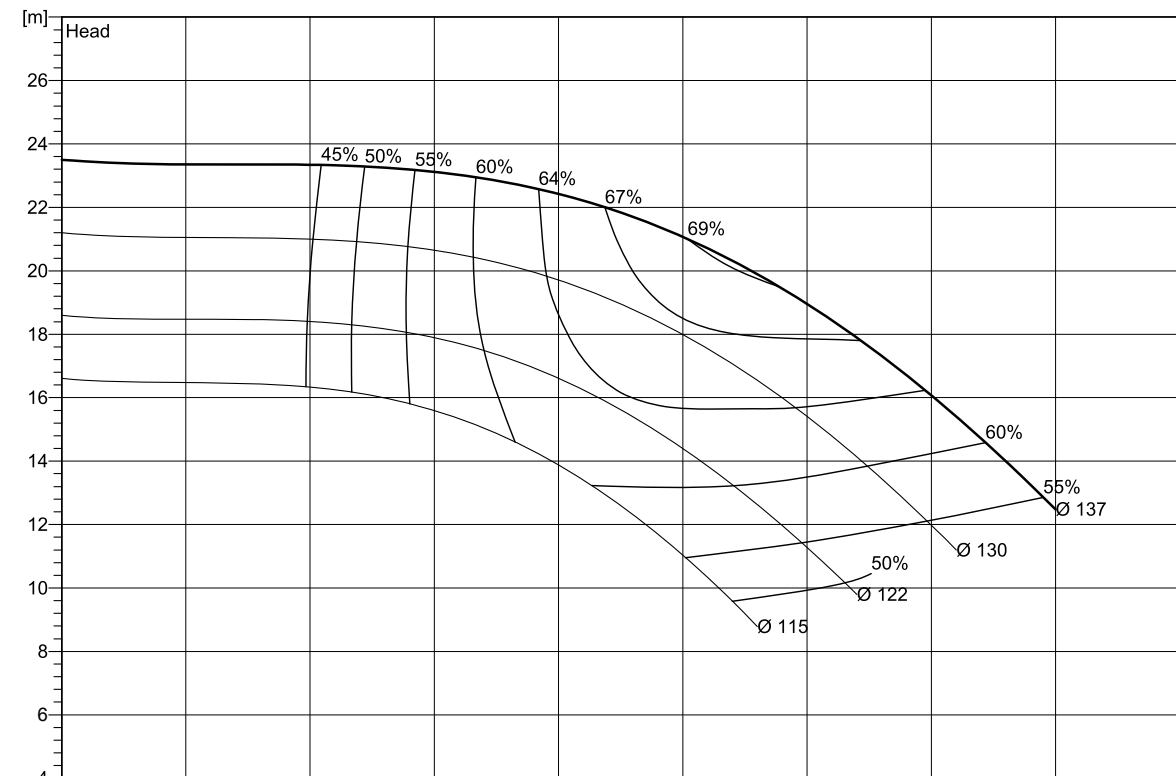


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Baureihe / Series:	MCA
Typ / Type:	MCA 50-32-250
Standard Motor:	2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2 kW	Selected impeller:
Fluid:		Suction nozzle: DN 65 PN 16	Discharge nozzle: DN 50 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

MCA

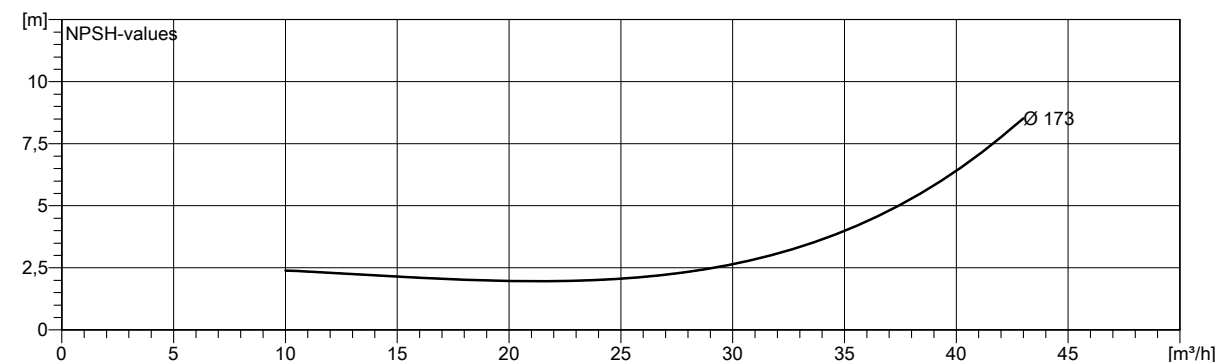
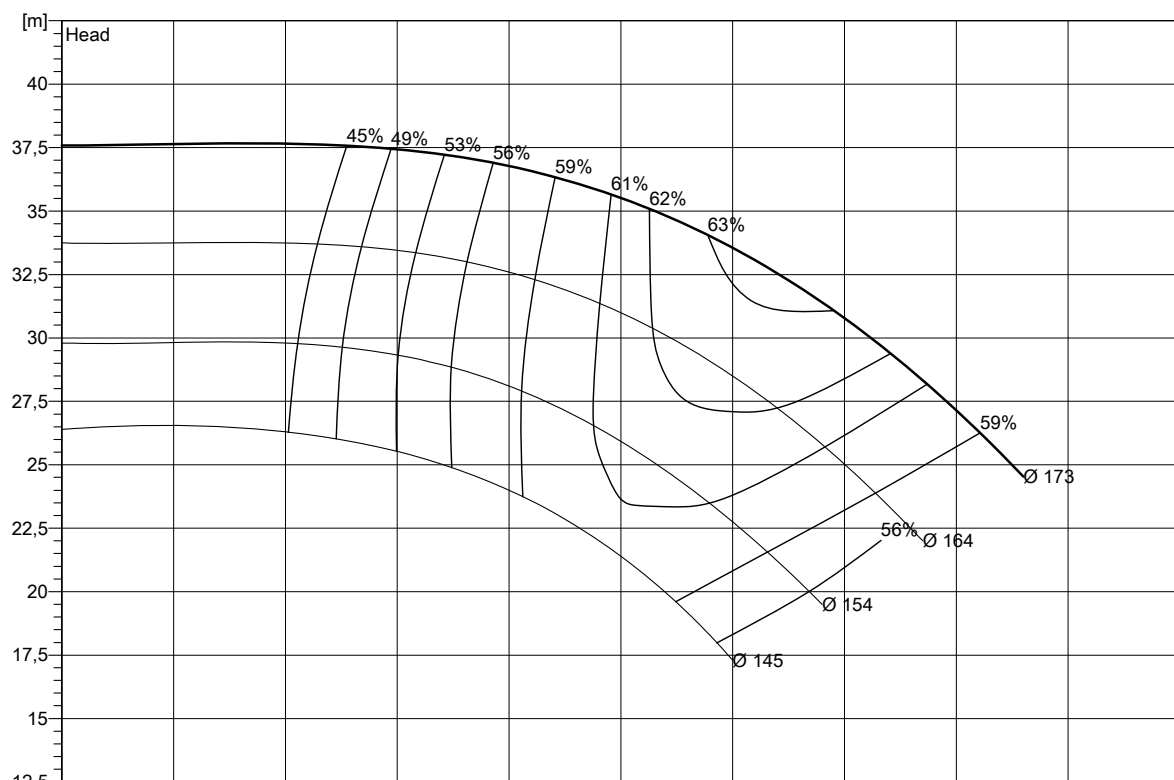
Typ / Type:

MCA 65-50-125

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses : 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 65 PN 16	Discharge nozzle: DN 50 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

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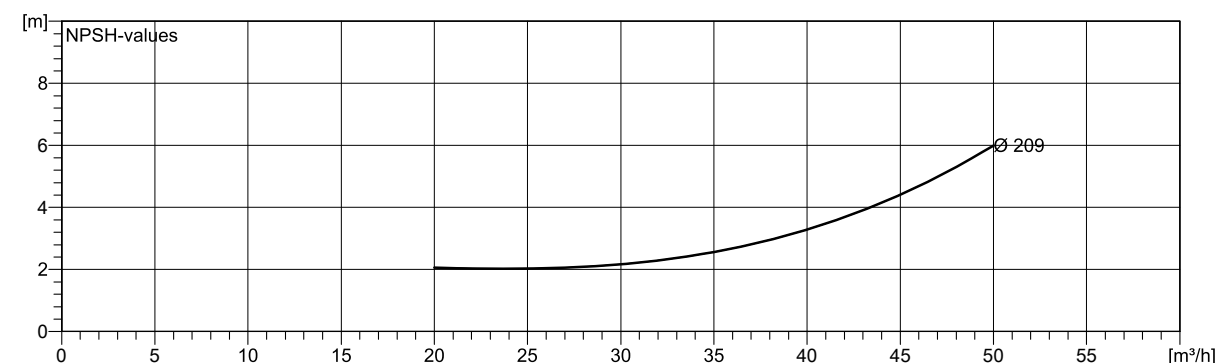
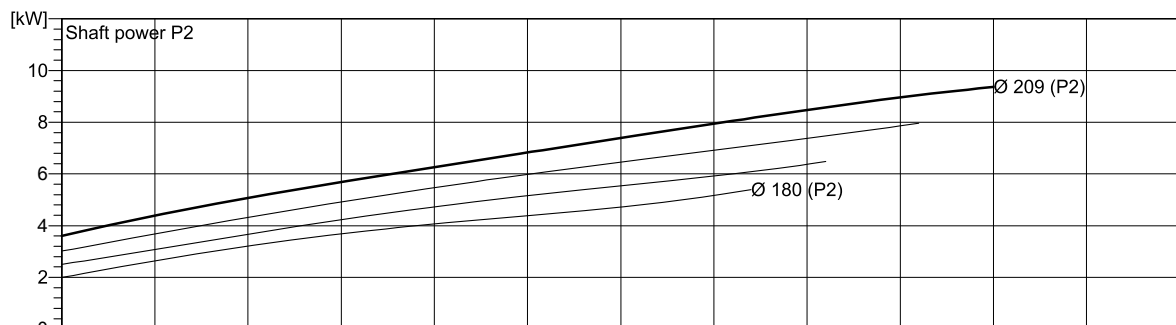
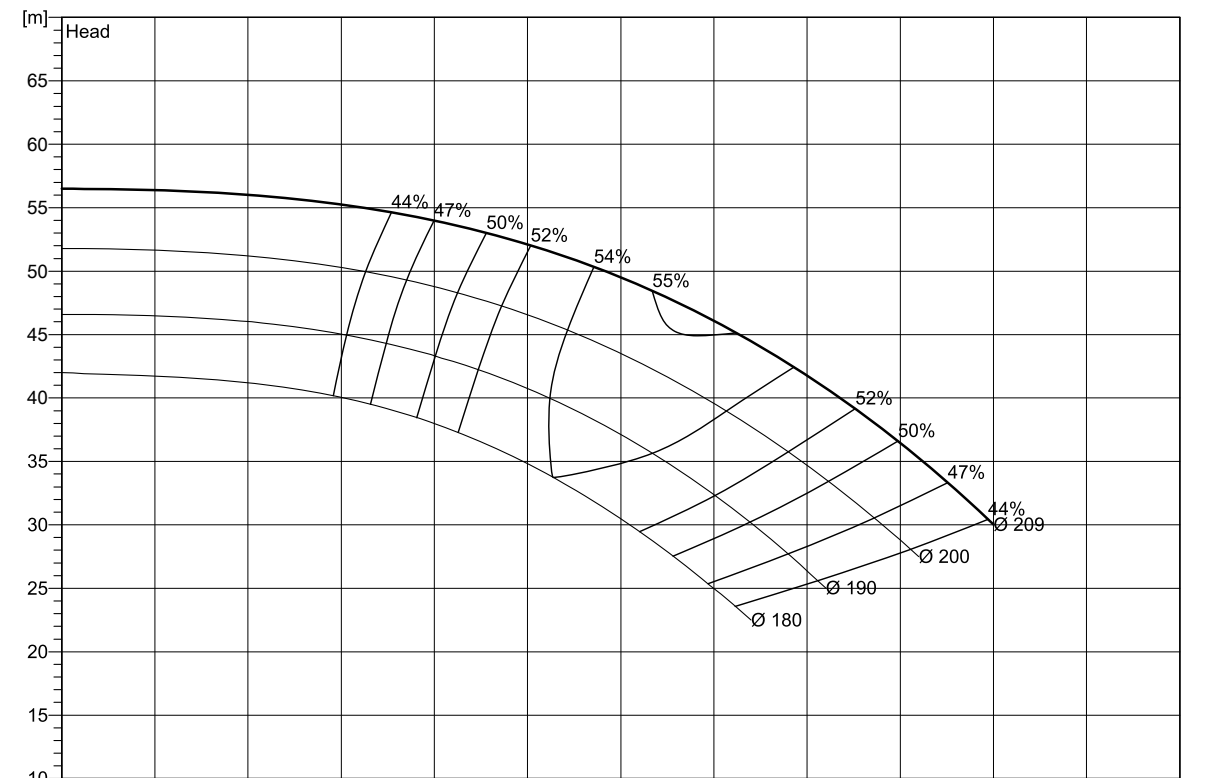
Typ / Type:

MCA 65-50-160

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 65 PN 16	Discharge nozzle: DN 40 PN 16



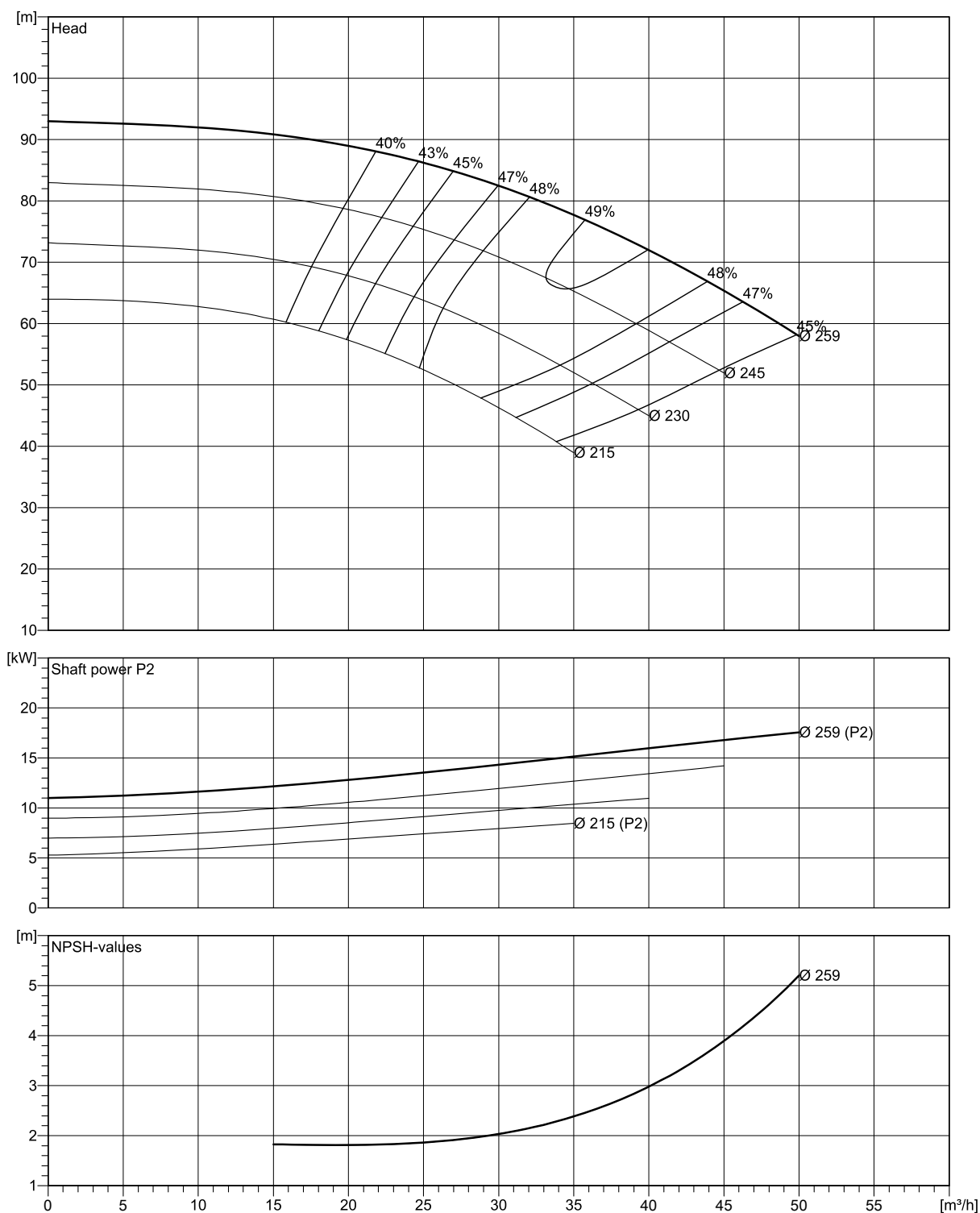
Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series: **MCA**
Typ / Type: **MCA 65-40-200**
Standard Motor: **2900 1/min**

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 65 PN 16	Discharge nozzle: DN 40 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

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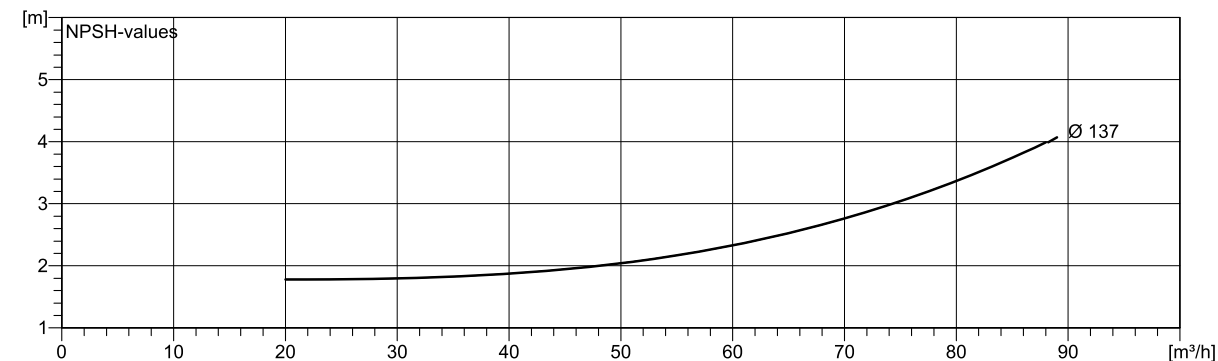
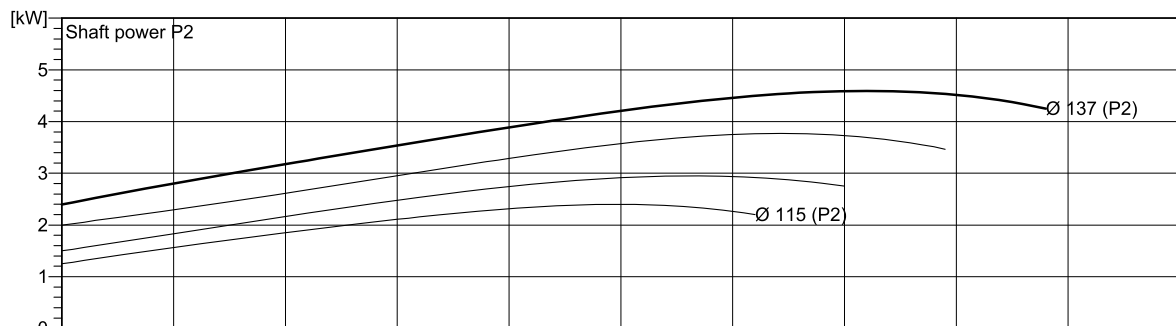
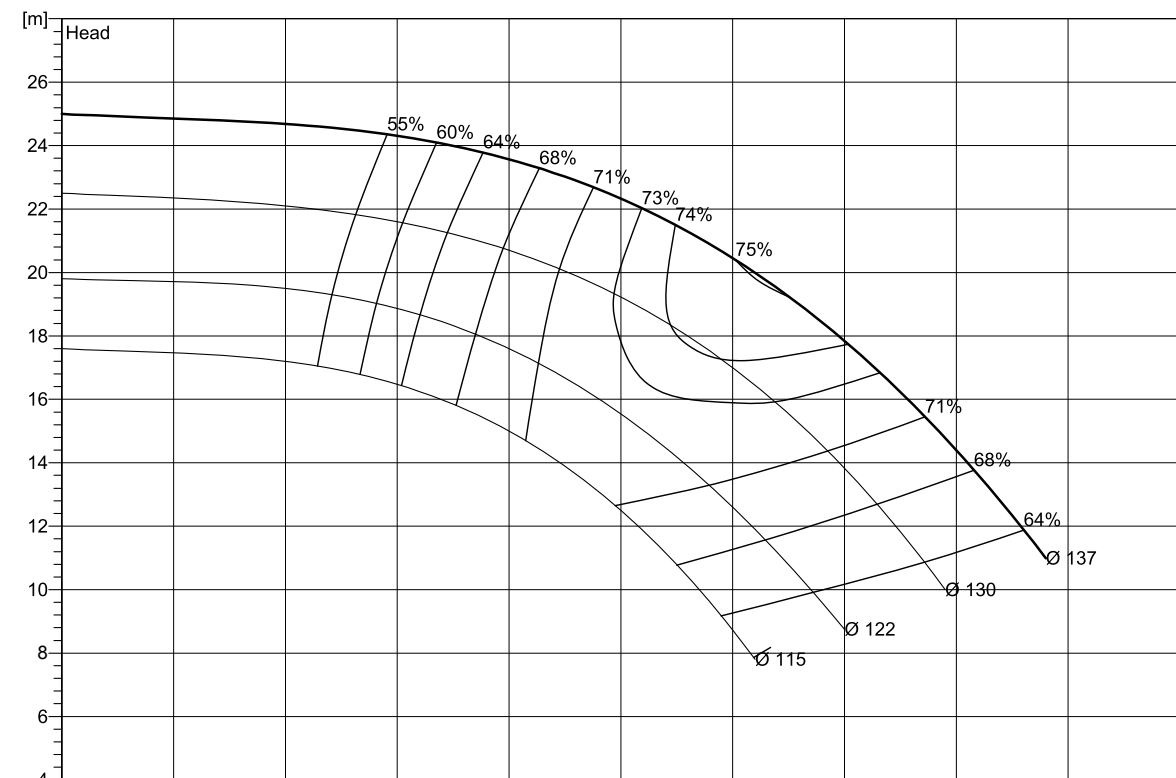
Typ / Type:

MCA 65-40-250

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 80 PN 16	Discharge nozzle: DN 65 PN 16



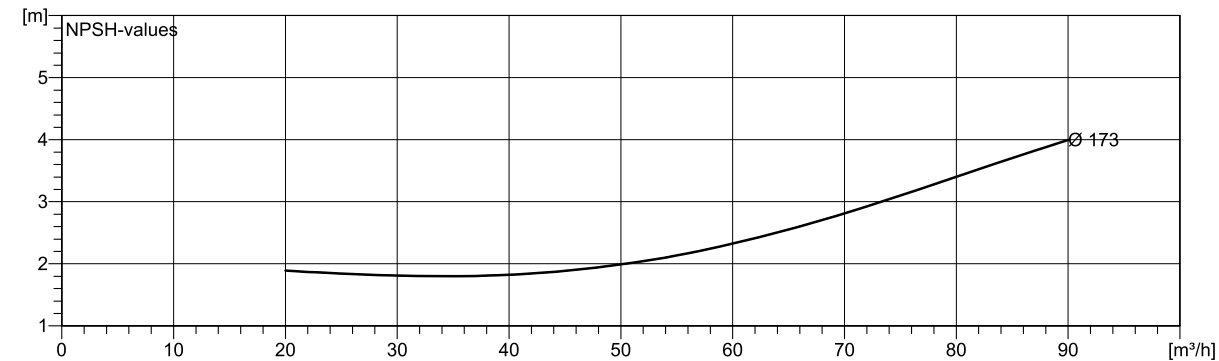
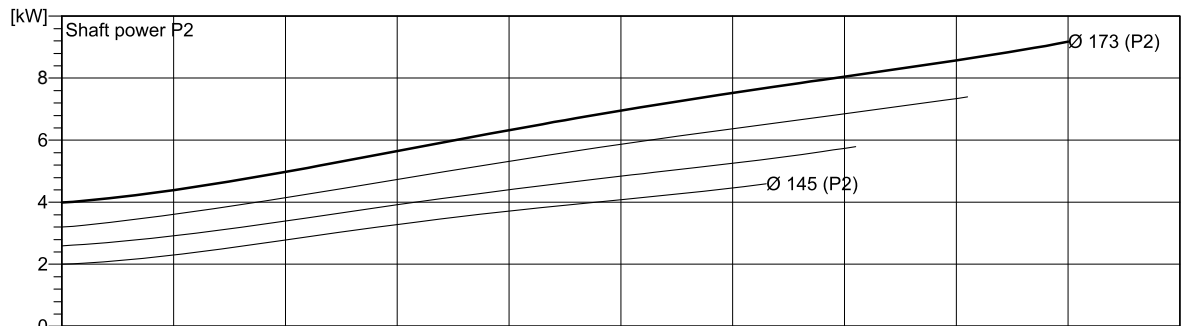
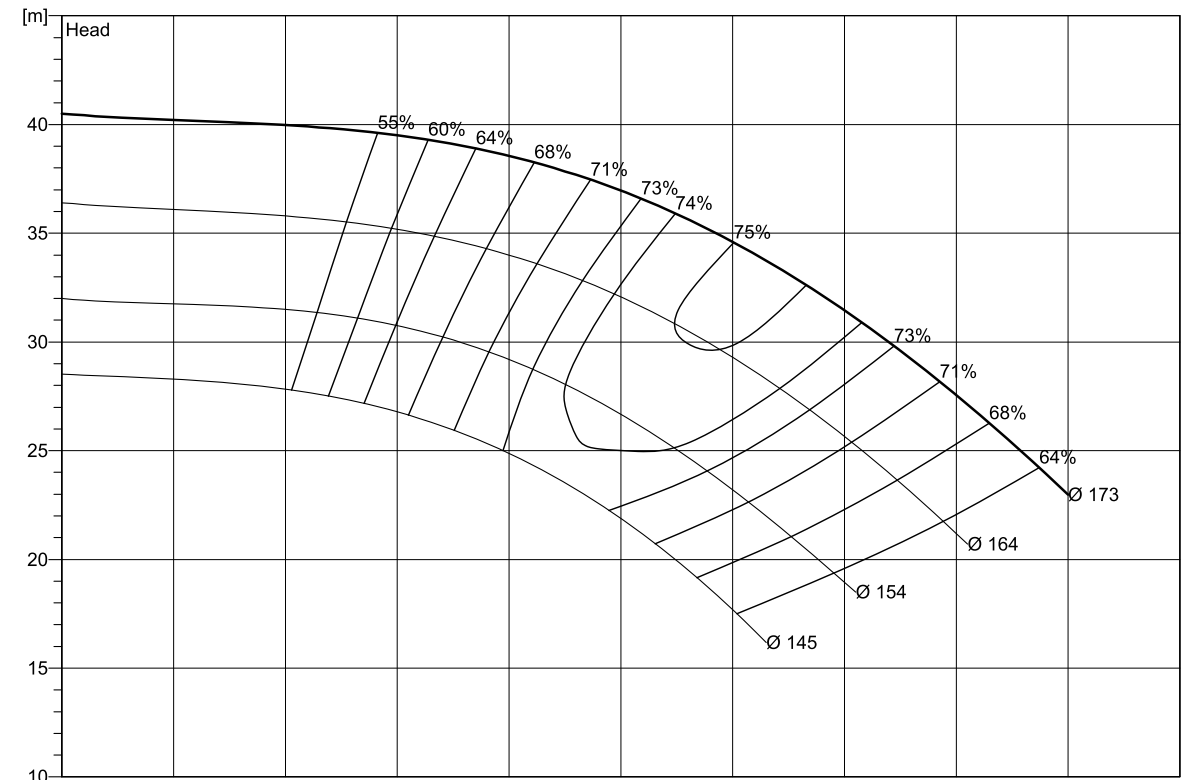
Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series: **MCA**
Typ / Type: **MCA 80-65-125**
Standard Motor: **2900 1/min**

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 80 PN 16	Discharge nozzle: DN 65 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

MCA

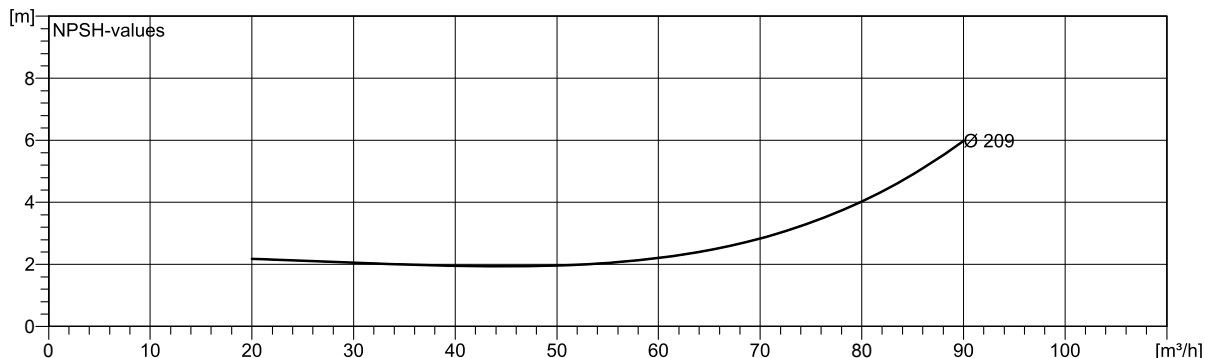
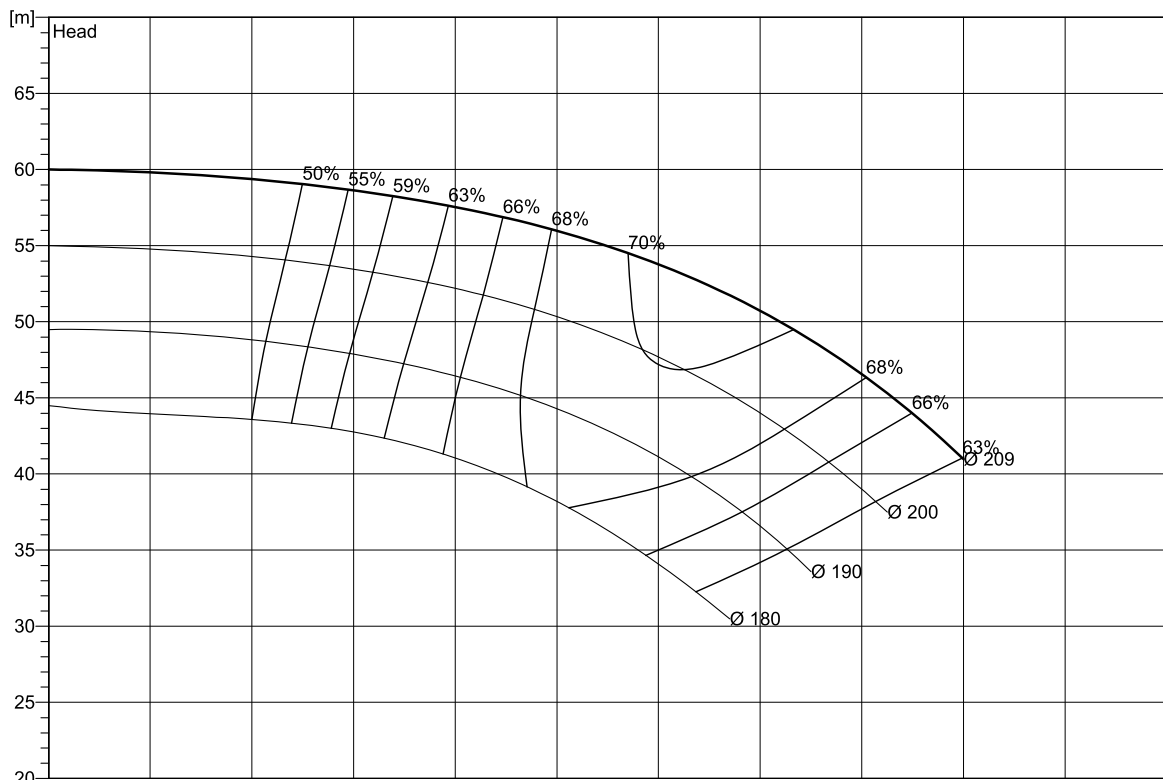
Typ / Type:

MCA 80-65-160

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 80 PN 16	Discharge nozzle: DN 50 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

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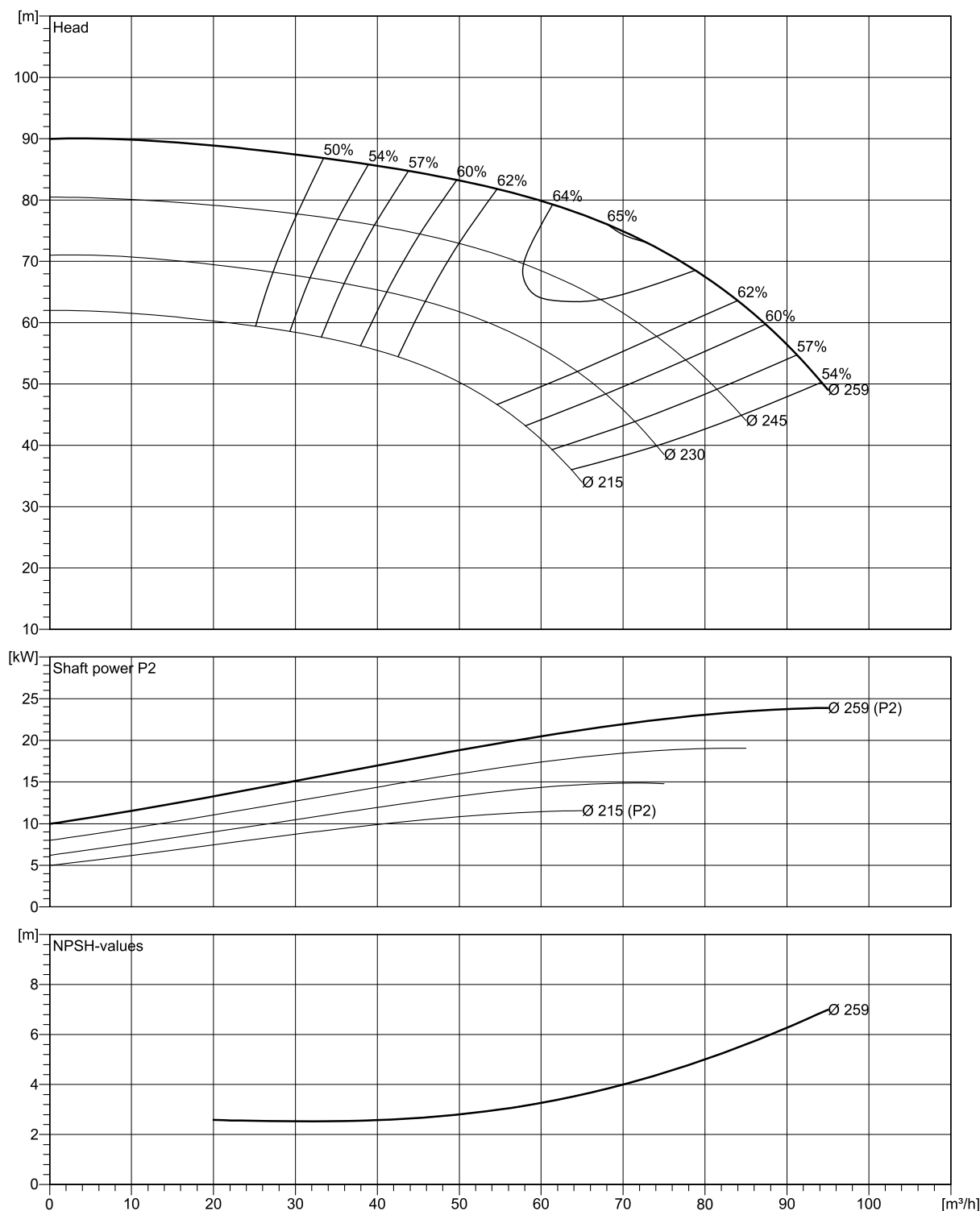
Typ / Type:

MCA 80-50-200

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 80 PN 16	Discharge nozzle: DN 50 PN 16



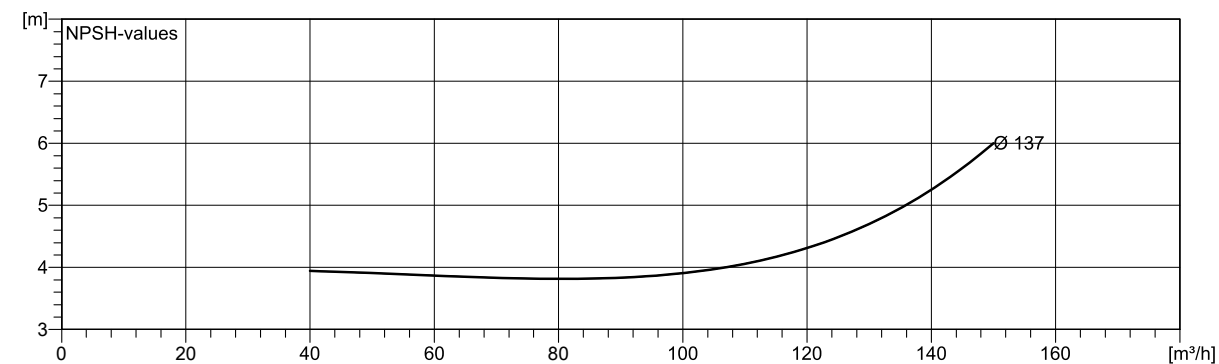
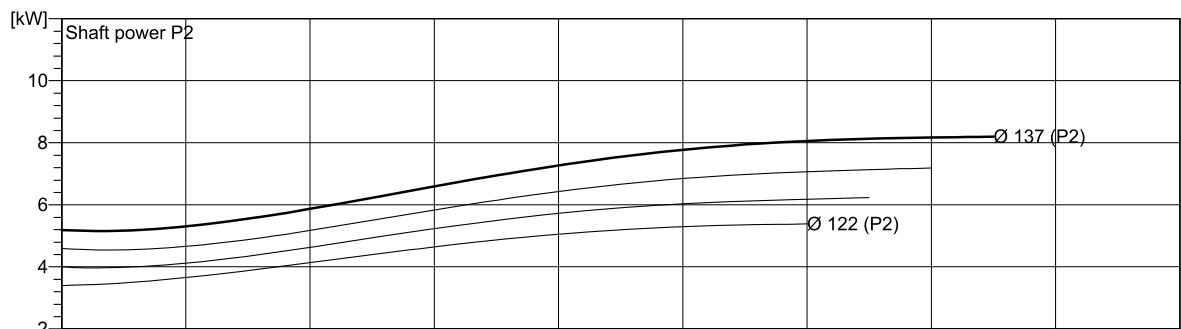
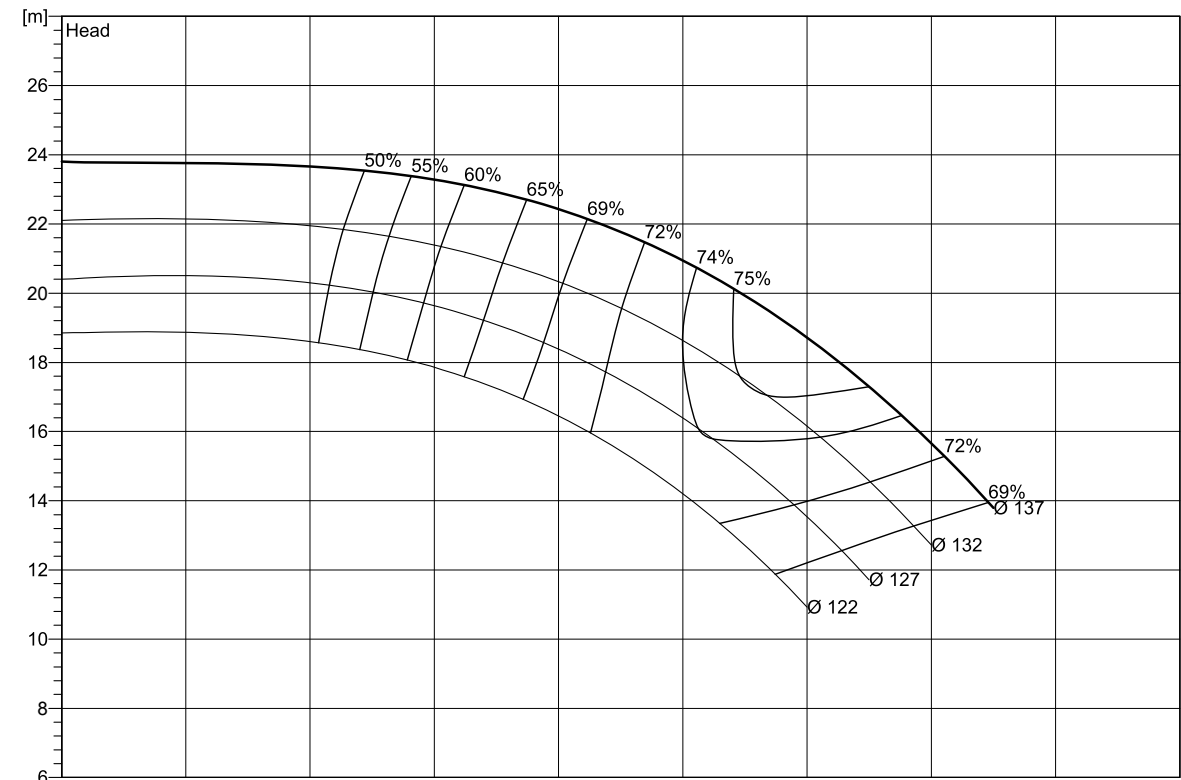
Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series: **MCA**
Typ / Type: **MCA 80-50-250**
Standard Motor: **2900 1/min**

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2900 1/min 50 Hz	Magnetic losses: 2,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 100 PN 16	Discharge nozzle: DN 80 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

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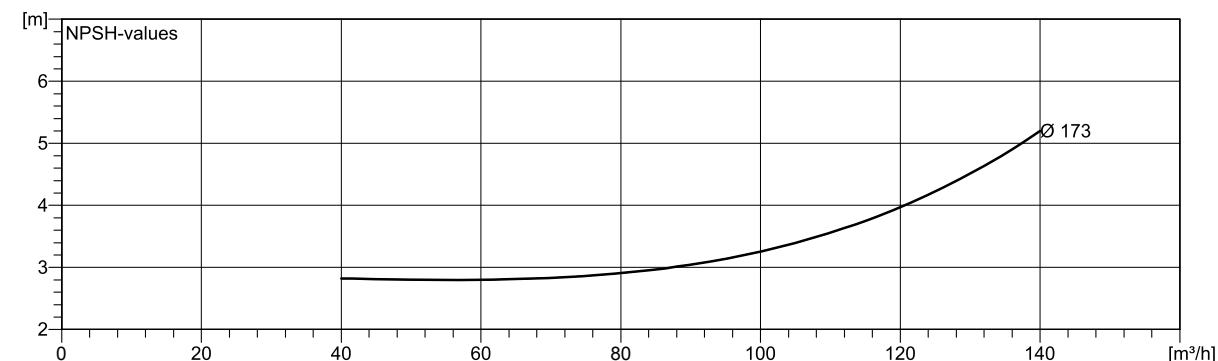
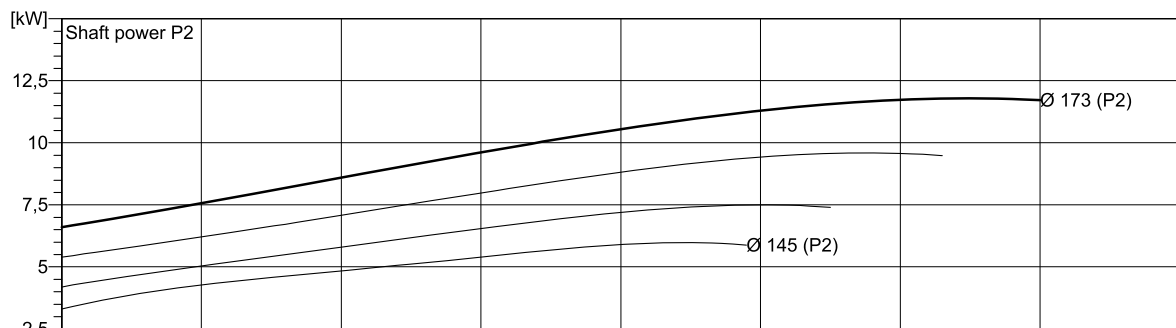
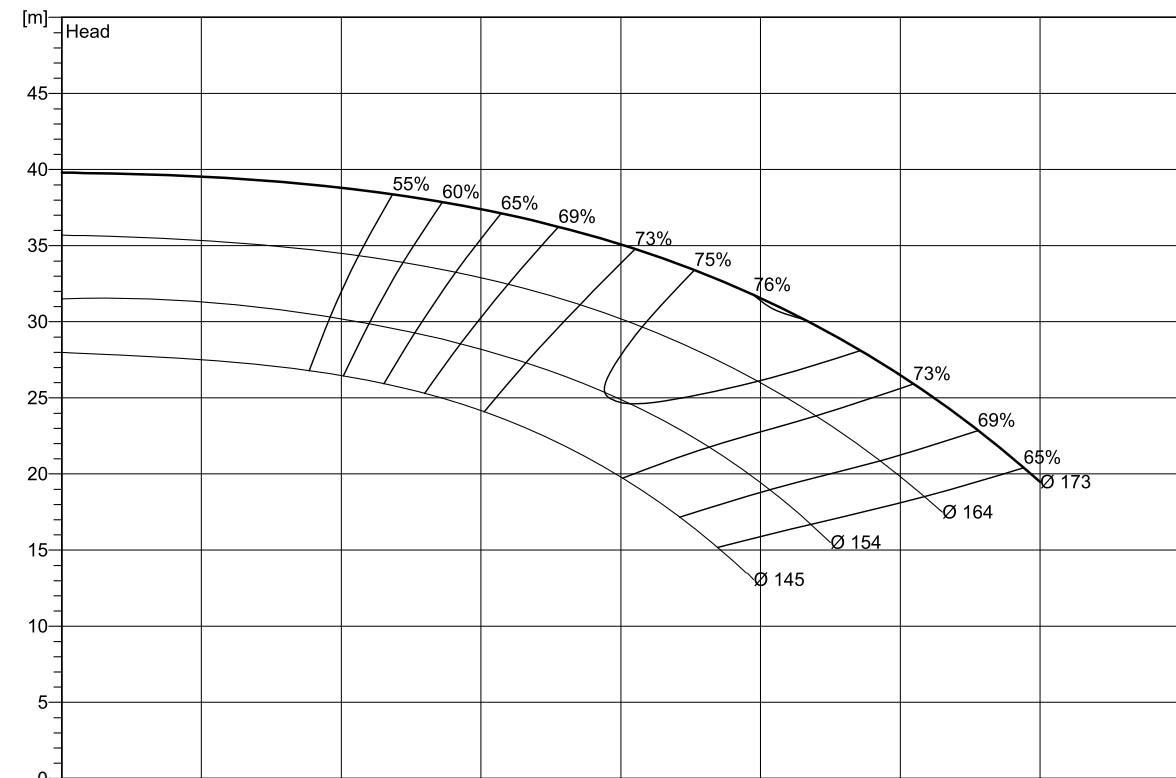
Typ / Type:

MCA 100-80-125

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2930 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 100 PN 16	Discharge nozzle: DN 80 PN 16



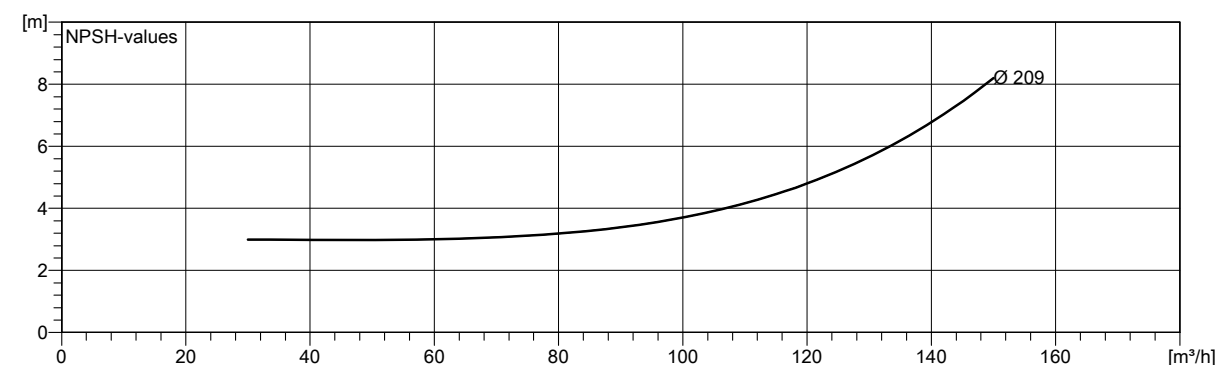
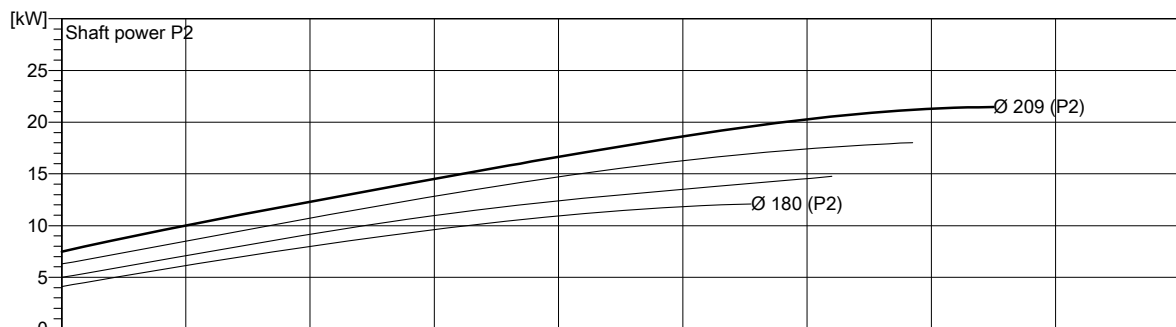
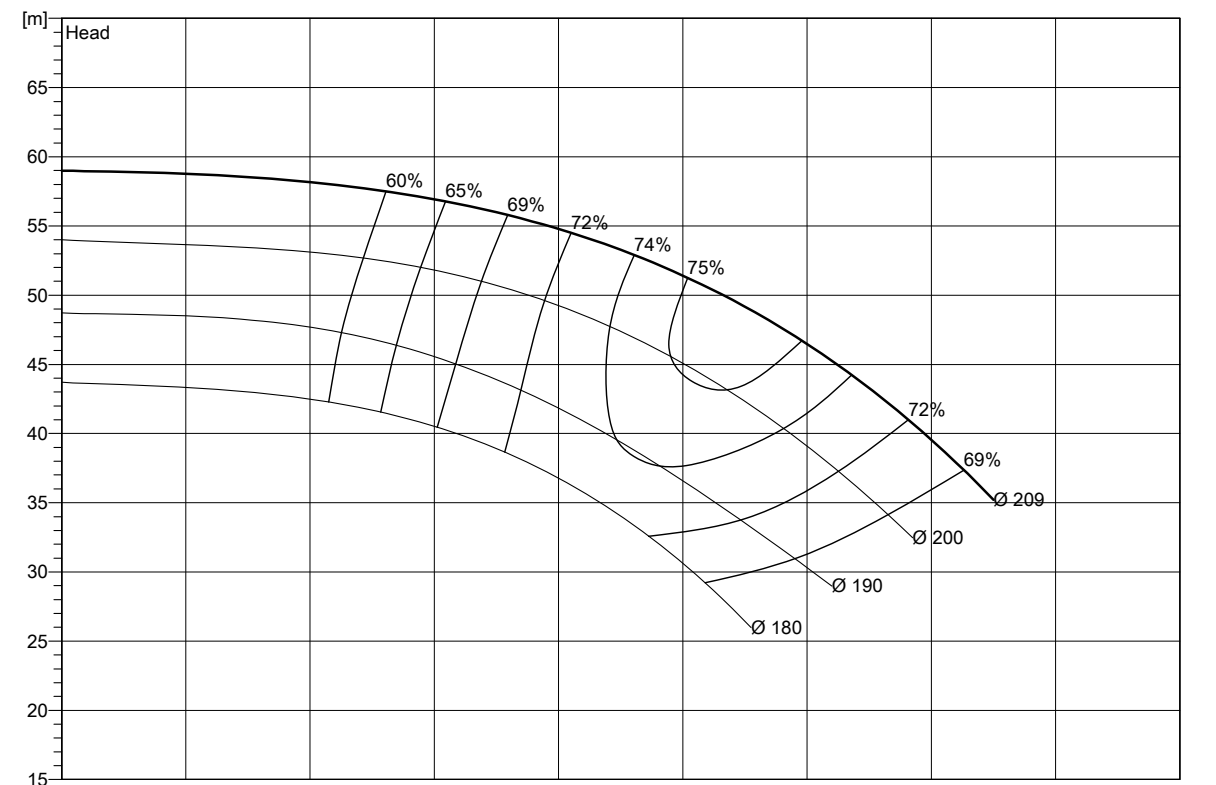
Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:	MCA
Typ / Type:	MCA 100-80-160
Standard Motor:	2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2930 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 100 PN 16	Discharge nozzle: DN 65 PN 16



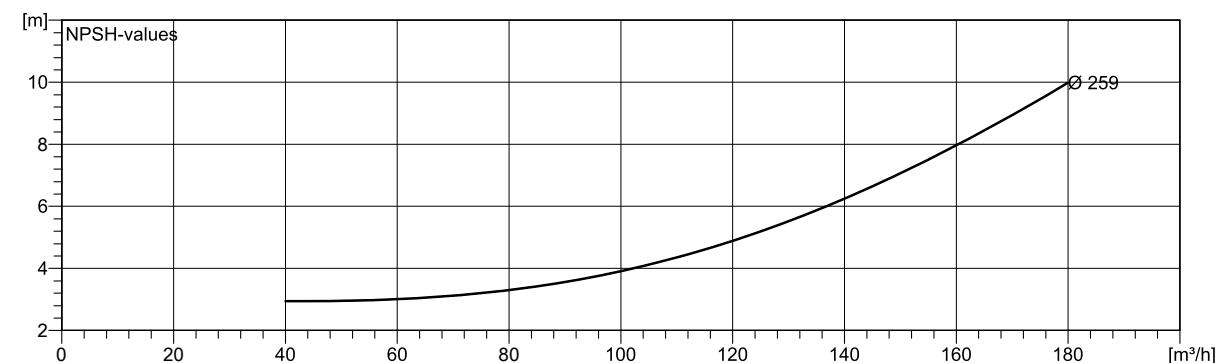
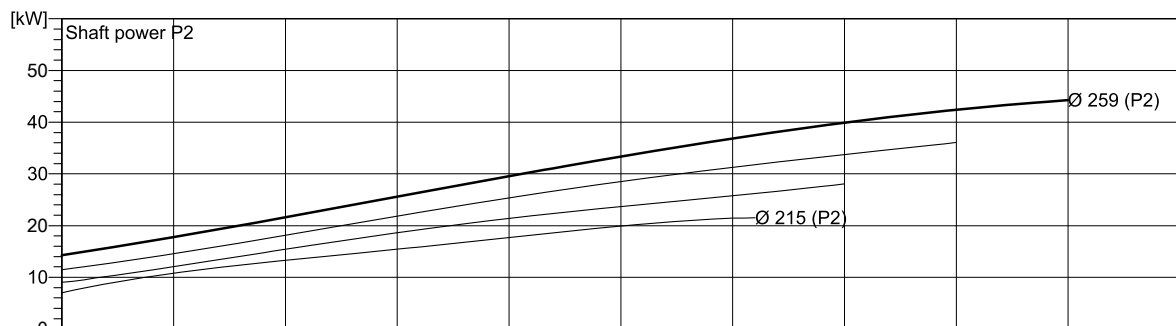
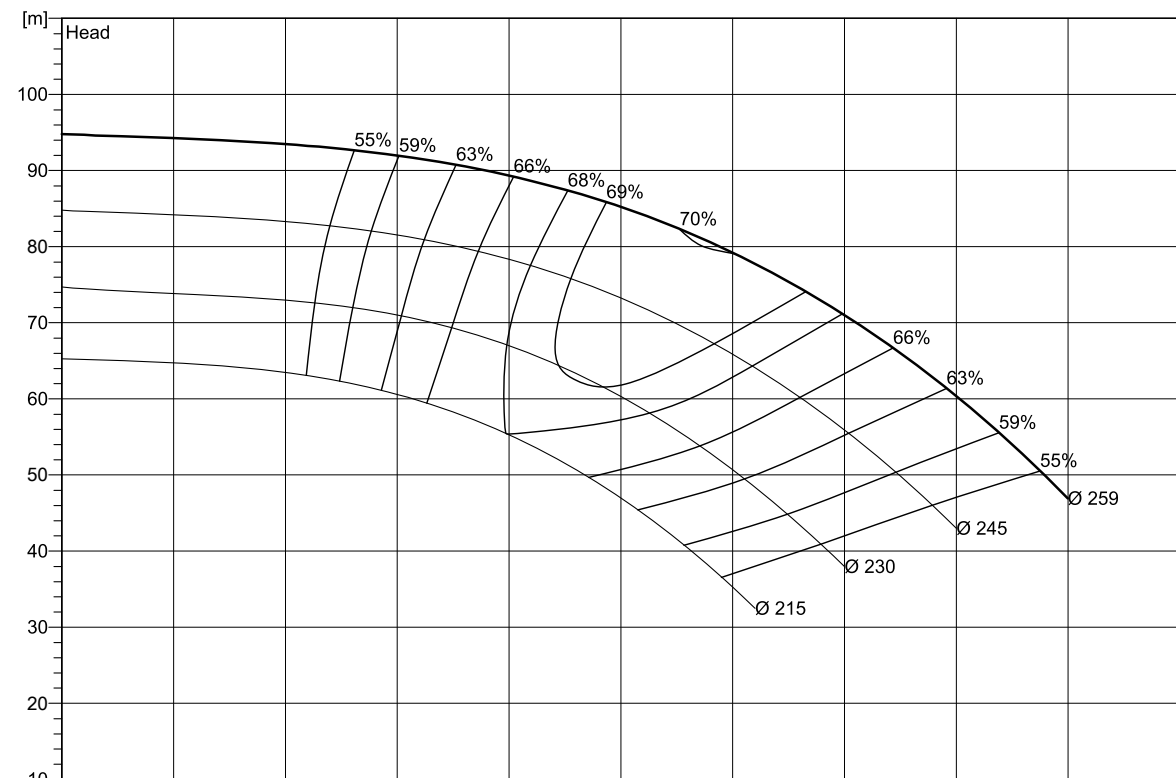
Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series: **MCA**
Typ / Type: **MCA 100-65-200**
Standard Motor: **2900 1/min**

Duty point			
Capacity: m ³ /h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2930 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 100 PN 16	Discharge nozzle: DN 65 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

MCA

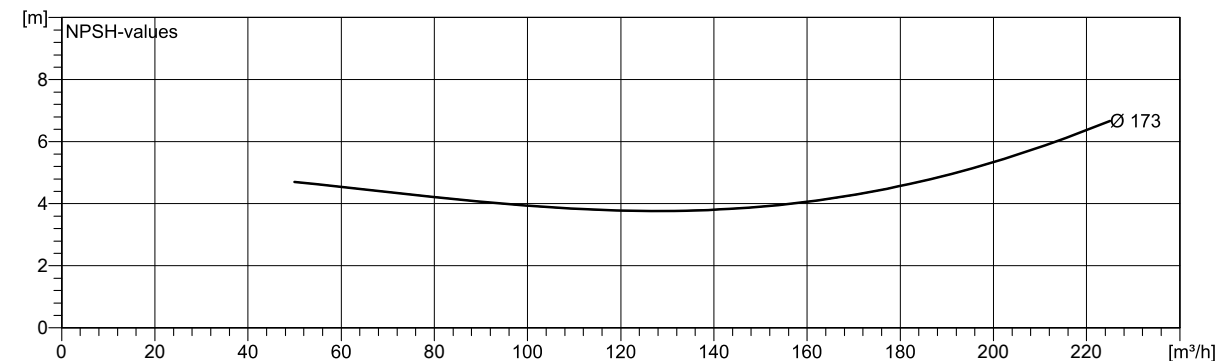
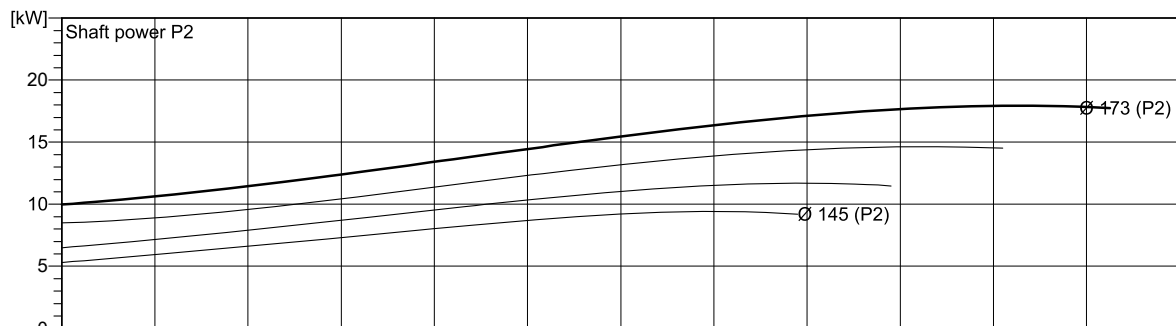
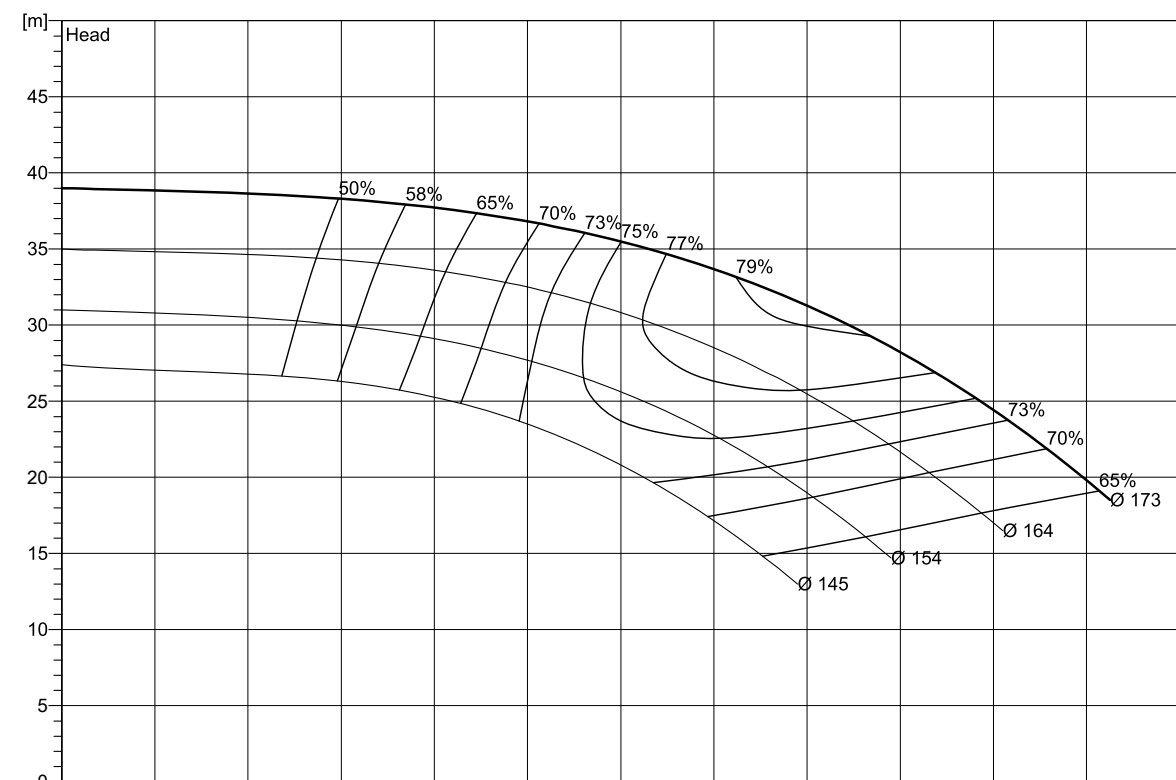
Typ / Type:

MCA 100-65-250

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2930 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 125 PN 16	Discharge nozzle: DN 80 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

MCA

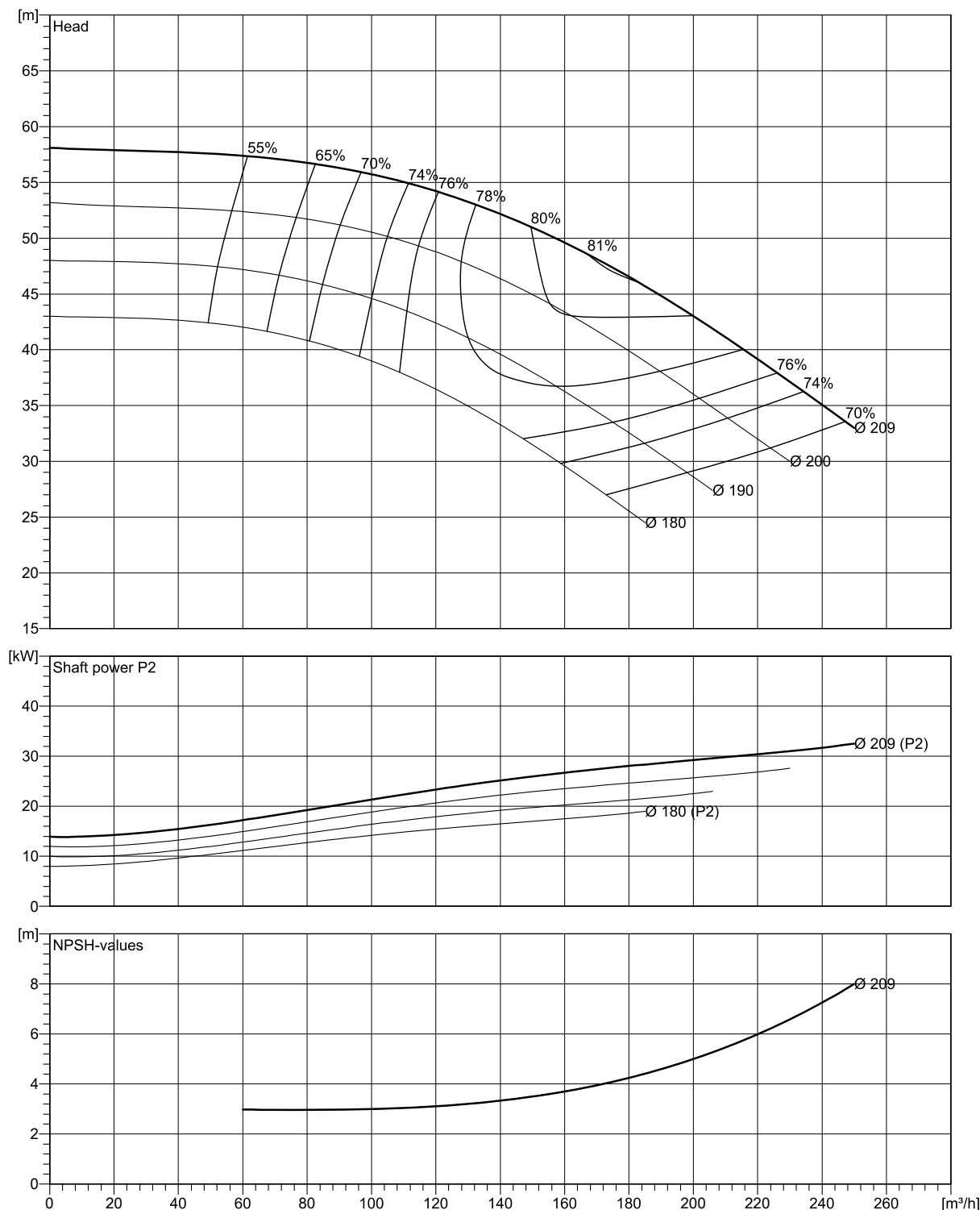
Typ / Type:

MCA 125-80-160

Standard Motor:

2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2930 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 125 PN 16	Discharge nozzle: DN 80 PN 16



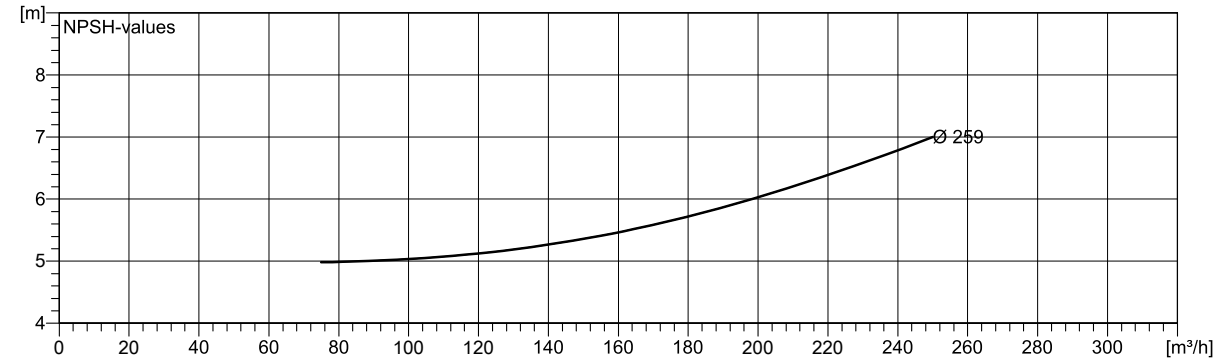
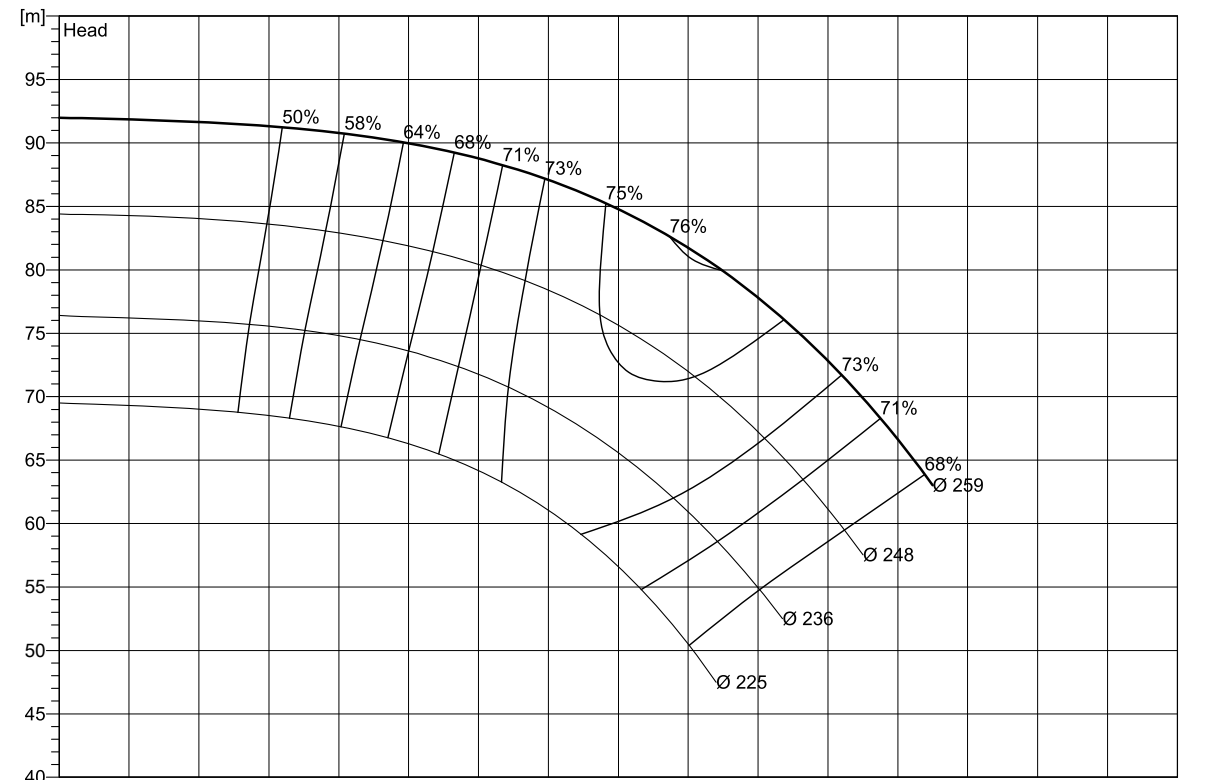
Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series: **MCA**
Typ / Type: **MCA 125-80-200**
Standard Motor: **2900 1/min**

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2950 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 125 PN 16	Discharge nozzle: DN 80 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)

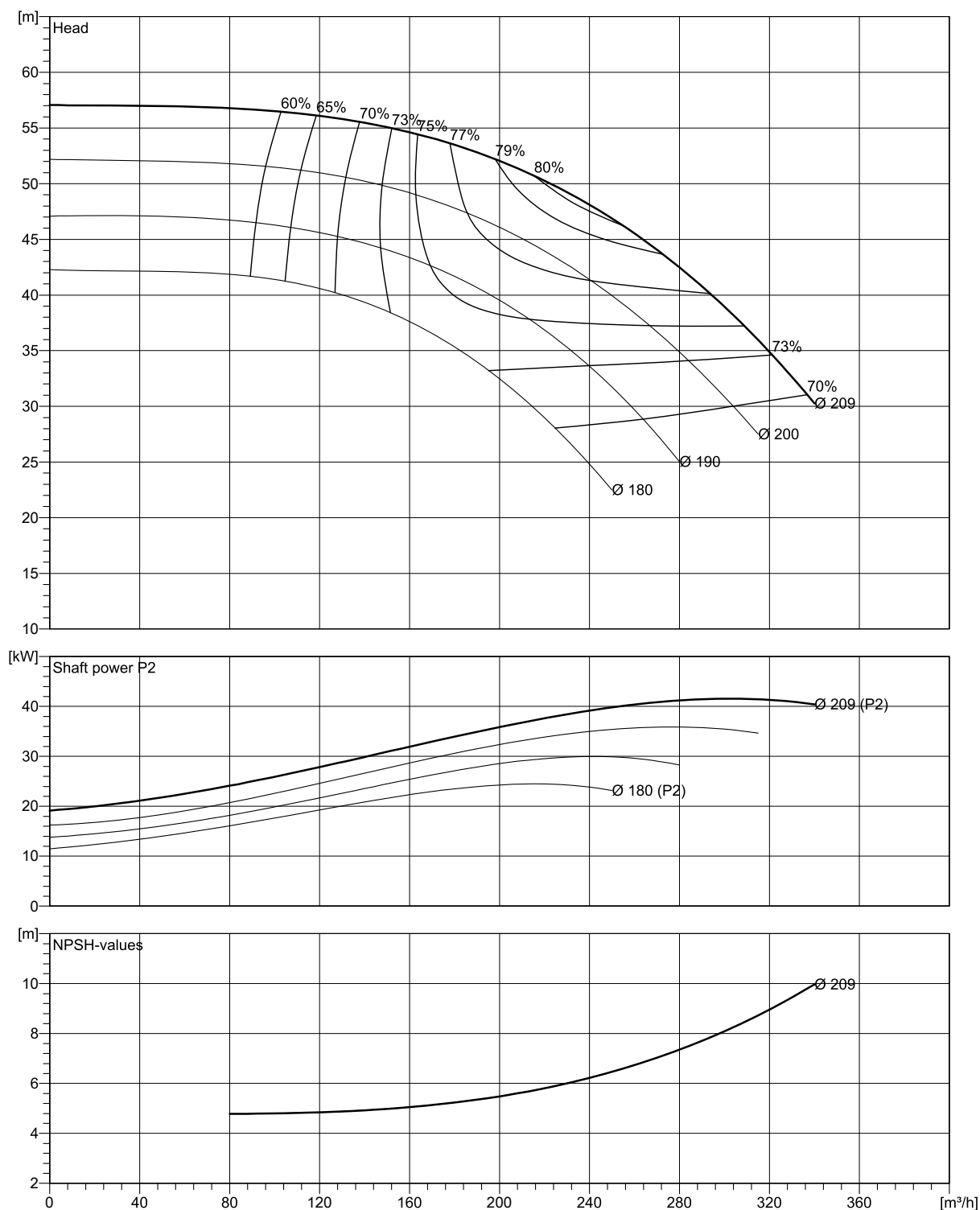


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Baureihe / Series: MCA
Typ / Type: MCA 125-80-250
Motor: 2900 1/min

Duty point			
Capacity: m³/h	Differential head: m	Absorbed power:	Max. abs. power:
Motor power:	Speed: 2950 1/min 50 Hz	Magnetic losses: 7,0 kW	Selected impeller:
Fluid:		Suction nozzle: DN 125 PN 16	Discharge nozzle: DN 100 PN 16



Tolerances : ISO 9906 Gr.2 (NPSH + 0.5 m)



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Baureihe / Series:

MCA

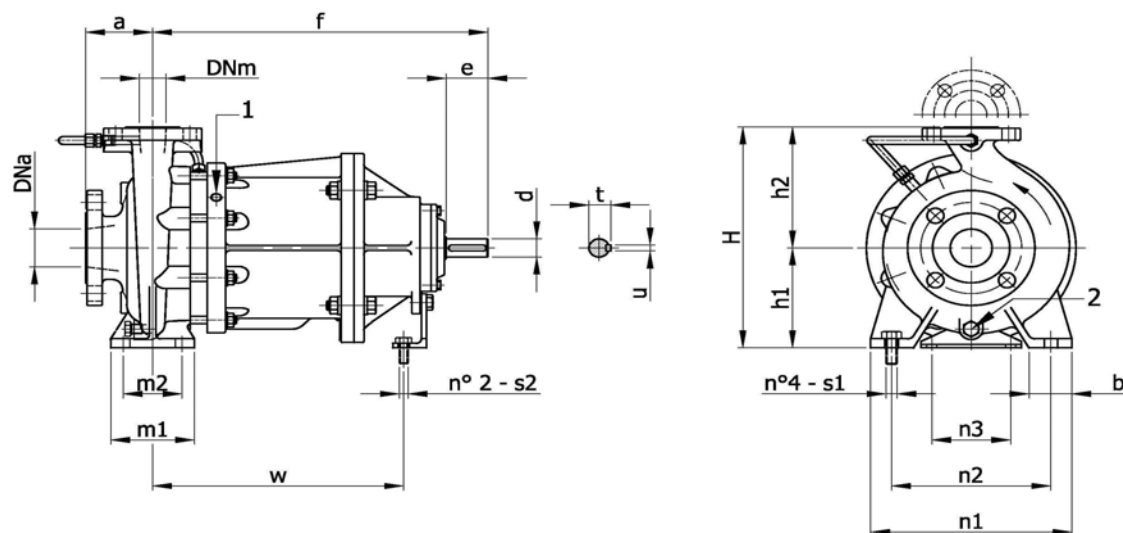
Typ / Type:

MCA 125-100-200

Motor:

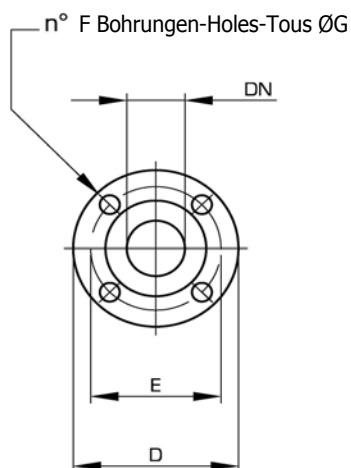
2900 1/min

ABMESSUNGEN - OVERALL DIMENSIONS - ENCOMBREMENTS



- 1) 1/4" NPT PT-100 Anschluss - Thermal protection - Protection thermique
- 2) 1/4" NPT Ablassschraube - Draining - Vidange

FLANSCH - FLANGES - BRIDES



DN	UNI PN 16		
	D	E	n° F-ØG
32	140	100	4 - 18
40	150	110	
50	165	125	
65	185	145	
80	200	160	8 - 18
100	220	180	

DN	ANSI 150 RF		
	D	E	n° F-ØG
1 1/4"	117,5	88,9	4 - 16
1 1/2"	127	98,4	
2"	152,5	120,6	4 - 19
2 1/2"	178	139,7	
3"	190,5	152,4	8 - 19
4"	229	190,5	

Pumpe Typ	DNa	DNm	Dimensioni - Dimensions - Dimensions mm																	
	mm (inch.)	mm (inch.)	a	H	h1	h2	b	m1	m2	n1	n2	n3	s1	s2	f	w	d	e	t	u
MCA 32x125	50 (2")	32 (1 1/4")	80	252	112	140	50	100	70	190	140	110	M12	M12	385	285	24	50	27	8
MCA 32x160				292	132	160				240	190									
MCA 32x200				340	160	180				210	160									
MCA 50x125	65 (2 1/2")	50 (2")	100	252	112	140				240	190									
MCA 50x160				292	132	160				265	212									
MCA 40x200				340	160	180				240	190									
MCA 65x125	80 (3")	65 (2 1/2")	100	292	132	160				265	212									
MCA 65x160				340		180				265	212									
MCA 50x200				360	160	200				280										
MCA 80x125	100 (4")	80 (3")		340		180	65	125	95	280										



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Baureihe / Series:

MCA

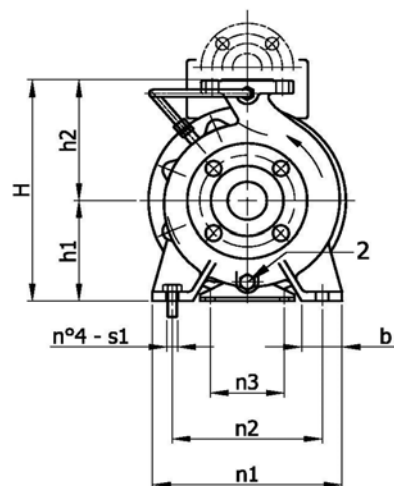
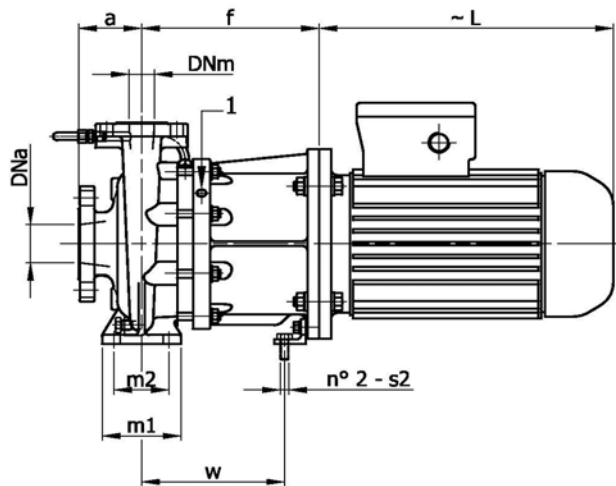
Typ / Type:

MCA I° Range - Bare Shaft

Motor:

IEC 112-160 B3

ABMESSUNGEN - OVERALL DIMENSIONS - ENCOMBREMENTS

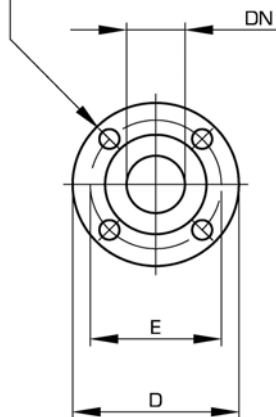


- 1) 1/4" NPT PT-100 Anschluss - Thermal protection - Protection thermique
2) 1/4" NPT Ablassschraube - Draining - Vidange

~L Abmessungen können abweichen - Dimensions not binding - Dimensions données à titre indicatif

FLANSCH - FLANGES - BRIDES

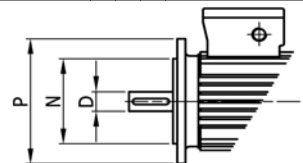
n° F Bohrungen-Holes-Tous ØG



DN	UNI PN 16		
	D	E	n° F-ØG
32	140	100	4 - 18
40	150	110	
50	165	125	
65	185	145	
80	200	160	8 - 18
100	220	180	

DN	ANSI 150 RF		
	D	E	n° F-ØG
1¼"	117,5	88,9	4 - 16
1½"	127	98,4	
2"	152,5	120,6	4 - 19
2½"	178	139,7	
3"	190,5	152,4	8 - 19
4"	229	190,5	

Motore Motor Moteur I.E.C. 50Hz



Pumpe Typ	DNa	DN	Abmessungen - Dimensions - Dimensions													
	mm (inch.)	mm (inch.)	a	b	H	h1	h2	m1	m2	n1	n2	n3	s1	s2		
MCA 32x125	50 (2")	32 (1¼")	80		252	112	140			190	140					
MCA 32x160					292	132	160			240	190					
MCA 32x200					340	160	180									
MCA 50x125	65 (2½")	50 (2")	50		252	112	140			210	160					
MCA 50x160					292	132	160	100	70	240	190					
MCA 40x200					340	160	180			265	212					
MCA 65x125	80 (3")	65 (2½")	100		292	132	160			240	190					
MCA 65x160					340		180			265						
MCA 50x200					360	160	200				212					
MCA 80x125	100 (4")	80 (3")		65	340		180	125	95	280						

Motor	P	N	D	f	w	kW 2P	kW 4p
90S	200	130	24	215	146	1,5	1,1
90L						2,2	1,5
100L	250	180	28	225	173	3	2,2
112M						4	3
132S	300	230	38	245		5,5	5,5
132M						7,5	
160M	350	250	42	275	193	9,2	7,5
160L						11	/
						15	/
						18,5	/



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Baureihe / Series:

MCA

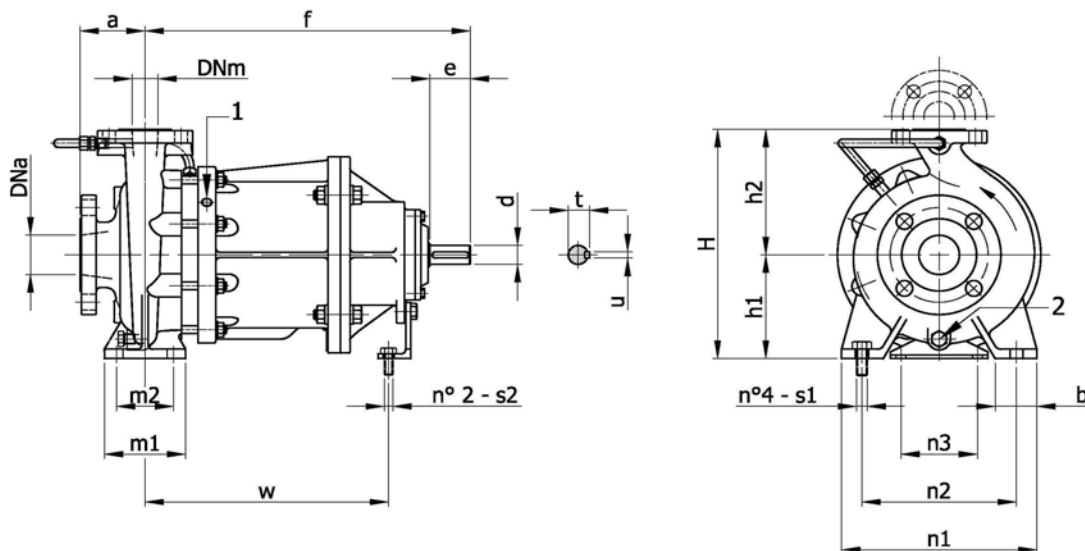
Typ / Type:

MCA I°Range - Close Coupled

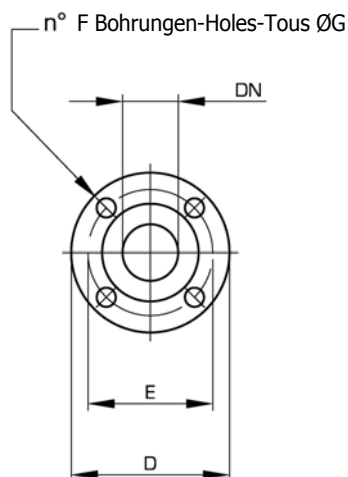
Motor:

IEC 90-160 B5

ABMESSUNGEN - OVERALL DIMENSIONS - ENCOMBREMENTS



- 1) 1/4" NPT PT-100 Anschluss - Thermal protection - Protection thermique
- 2) 1/4" NPT Ablassschraube - Draining - Vidange



FLANSCH - FLANGES - BRIDES

DN	UNI PN 16		
	D	E	n° F-ØG
32	140	100	4 - 18
40	150	110	
50	165	125	
65	185	145	
80	200	160	8 - 18
100	220	180	
125	250	210	

DN	ANSI 150 RF		
	D	E	n° F-ØG
1 1/4"	117,5	88,9	4 - 16
1 1/2"	127	98,4	
2"	152,5	120,6	4 - 19
2 1/2"	178	139,7	
3"	190,5	152,4	8 - 19
4"	229	190,5	
5"	254	215,9	8 - 22

Pumpe Typ	DNa	DNm	Abmessungen - Dimensions - Dimensions mm																			
	mm (inch.)	mm (inch.)	a	H	h1	h2	b	m1	m2	n1	n2	s1	n3	s2	f	w	d	e	t	u		
MCA 32x250	50 (2")	32 (1¼")	100	405	180	225	65	125	95	320	250	M12	110	M12	500	370	32	80	35	10		
MCA 40x250	65 (2½")	40 (1½")								320	250											
MCA 50x250	80 (3")	50 (2")								320	250											
MCA 80x160	100 (4")	80 (3")	100	360	160	200	65	125	95	280	212	M12	110	M12	500	370	32	80	35	10		
MCA 65x200		65 (2½")		405	180	225				320	250											
MCA 65x250				450	200	250				80	160										120	360
MCA 80x160		125 (5")	80 (3")	125	405	180	225	65	125	95	320	250	M12	110	M12	500	370	32	80	35	10	
MCA 80x200	430				250		345				280											
MCA 80x250	505				225	280	80				160	120										400
MCA 100x200	100 (4")		480		200	280	80				160	120	360									360



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Baureihe / Series:

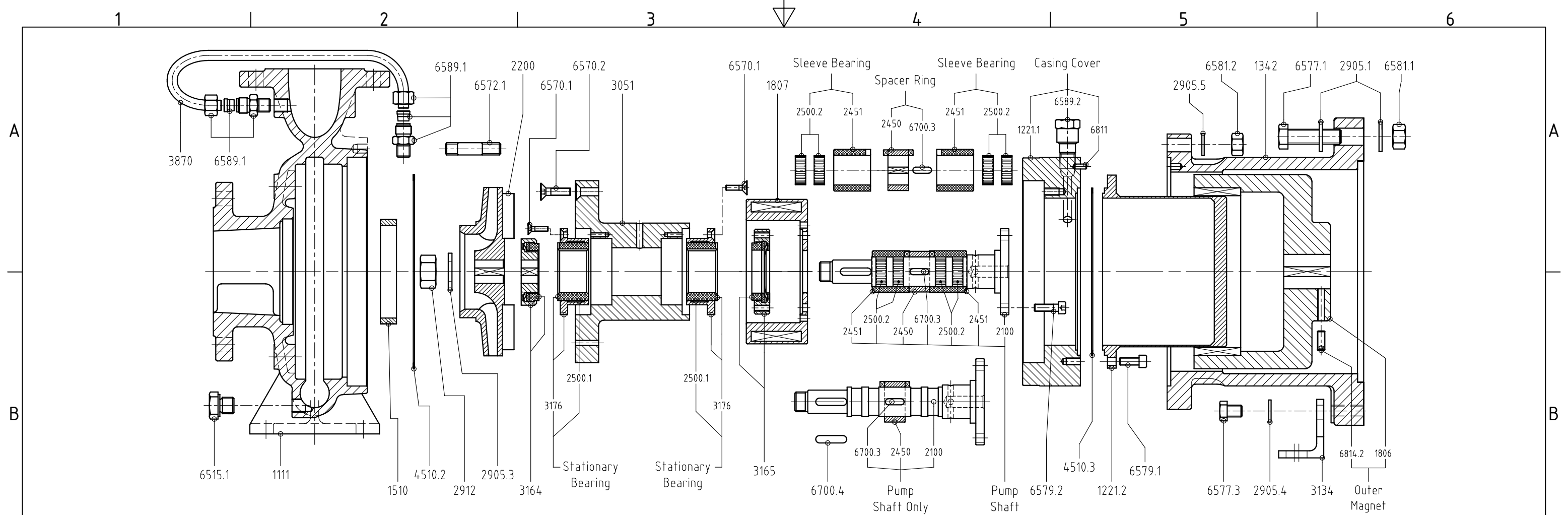
MCA

Typ / Type:

MCA II°Range - Bare Shaft

Motor:

IEC 160-225 B3



REF	DESCRIPTION	N. Qt.	MATERIAL	CODE
1111	Pump Casing	1	ASTM CF8M	
▲ Casing Cover				
1221.1	Casing Cover	1	AISI 316L	
6589.2	Pipe Fitting	1	AISI 316	
6811	Pin	1	AISI 304	
▲ 1221.2	Rear Casing	1	AISI 316L / HC276	
1342	Bracket (/-/-/)	1	G25	
■ 1510	Casing Wear Ring	1	AISI 316	
Outer Magnet			Neodym./Steel	
1806	Outer Magnet	1		
6814.2	Screw	1		
▲ 1807	Inner Magnet	1	AISI 316L / CoSm	
■▲ Pump Shaft				
2100	Pump Shaft	1	AISI 431	
2450	Spacer Ring	1	AISI 316	
2451	Sleeve Bearing	2	SiC	
2500.2	Corrugated Ring	4	AISI 316	
6700.3	Sleeve Bearings Key	1	AISI 316	
2200	Impeller	1	ASTM CF8M	
Sleeve Bearing				
2451	Sleeve Bearing	1	SiC	
2500.2	Corrugated Ring	2	AISI 316	
Pump Shaft Only				
2100	Pump Shaft	1	AISI 431	
2450	Spacer Ring	1	AISI 316	
6700.3	Sleeve Bearings Key	1	AISI 316	
Spacer Ring				
2450	Spacer Ring	1	AISI 316	
6700.3	Sleeve Bearings Key	1	AISI 316	
■▲ 2905.3	Impeller Nut Lockwasher	1	AISI 316	
2912	Impeller Nut	1	AISI 316	
▲ 3051	Pump Shaft Housing	1	AISI 316	
3134	Rear Foot	1	Steel	
■▲ 3164	Rear Thrust Bearing	1	SiC / AISI 316	
■▲ 3165	Front Thrust Bearing	1	SiC / AISI 316	

REF	DESCRIPTION	N. Qt.	MATERIAL	CODE
■▲ Stationary Bearing				
3176	Stationary Bearing	1	SiC	
2500.1	Corrugated Ring	1	AISI 316	
3870	Flushing Pipe	1	AISI 316	
■▲ 4510.2	Body Gasket	1	ARMoured GRAPHITE	
■▲ 4510.3	Rear Casing Gasket	1	ARMoured GRAPHITE	
6515.1	Drain Plug	1	AISI 316	
6572.1	Stud Nut	8	AISI 316	
6579.1	Screw	12	AISI 316	
6589.1	Compression Fitting	1	AISI 316	
6700.4	Pump Shaft Key	1	AISI 316	
▲ Set Internal Screws				
6570.1	Screw	6	AISI 316	
6570.2	Screw	4	AISI 316	
6579.2	Screw	4	AISI 316	
Set External Screws				
6577.1	Screw	4	Carbon Steel	
2905.1	Washer	8	Carbon Steel	
6581.1	Nut	4	Carbon Steel	
6577.3	Screw	2	Carbon Steel	
2905.4	Washer	2	Carbon Steel	
6581.2	Nut	8	AISI 304	
2905.5	Washer	8	Carbon Steel	
6814.2	Screw	1	Carbon Steel	

- REAR WET END (RWE) = parts marked ▲
- RECOMMENDED SPARE PARTS FOR TWO YEARS OPERATION = parts marked ■



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Baureihe / Series:	MCA
Typ / Type:	MCA I° Range
Design:	Close Coupled