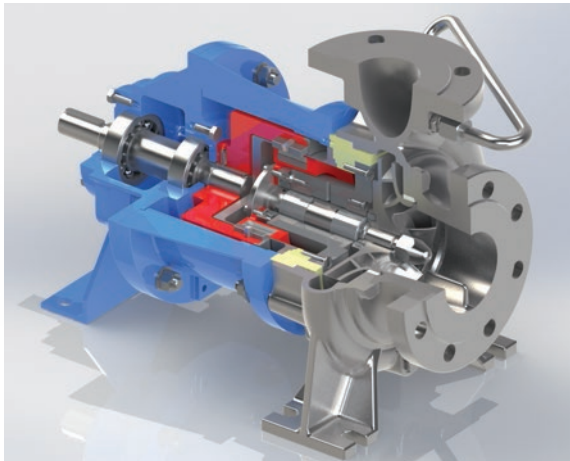


# MAGNETGEKUPPELTE CHEMIENORMPUMPEN

nach ISO 2858 - DIN 24256

## Baureihe MCA



### PRODUKTBESCHREIBUNG

Die Magnetgekuppelten Chemienormpumpen der Baureihe MCA sind Kreiselpumpen nach dem Strömungsmaschinenprinzip. Magnetkupplungspumpen benötigen keinerlei Wellenabdichtungen und arbeiten absolut leakagefrei. Die Kraftübertragung von Antrieb auf das Hydraulikteil der Pumpen erfolgt berührungslos durch starke NdFeB oder CoSm Permanentmagnete, wodurch das Fördermedium sicher und wartungsfrei gefördert wird. Die Pumpenbaureihe wird aus hochwertigsten Werkstoffen, wie Edelstahl (1.4401), Hastelloy C 276 oder Titan gefertigt. Die Pumpen werden serienmäßig nach ISO 2858 und DIN 24256 ausgeführt. Alle Pumpen dieser Baureihen erfüllen höchste Ansprüche an Qualität und Wirtschaftlichkeit, als auch an Sicherheit, Langlebigkeit und Umweltverträglichkeit, bei einem überzeugenden Preis/Leistungsverhältnis.

### TECHNISCHE DATEN (STANDARD)

Fördermenge:	min. 4,0 m <sup>3</sup> /h max. 275 m <sup>3</sup> /h
Förderhöhe:	max. 95 mWs
Systemdruck:	PN 16 bar
Temperatur:	-150°C ... +350°C
Viscosity, max.:	250 mPa s
Density, max.:	1,9 kg/dm <sup>3</sup>

### MATERIALIEN

Gehäuse:	Edelstahl 1.4401
Gleitlager:	SiC
O-Ringe:	PTFE

### KONSTRUKTIONSMERKMALE

- **Doppelte Gleitlageraufhängung** und doppelter Axialschubausgleich minimiert Axialkraft- und Momentbelastung bei häufigen Lastwechseln. Serienmäßige SiC-Gleitlager gewährleisten höchste Korrosionsbeständigkeit bei optimalen Gleiteigenschaften (minimale Reibungsverluste).

- **Die Integrierte By-Pass-Schmierung** bietet optimale Notlaufeigenschaften im Störfall, wie z.B. bei Trockenlauf oder Betrieb gegen druckseitig geschlossene Absperrarmaturen. Gleichzeitig werden die Gleitlager überall gleichmäßig geschmiert und die Temperaturen im Gleitlagerbereich konstant minimiert.

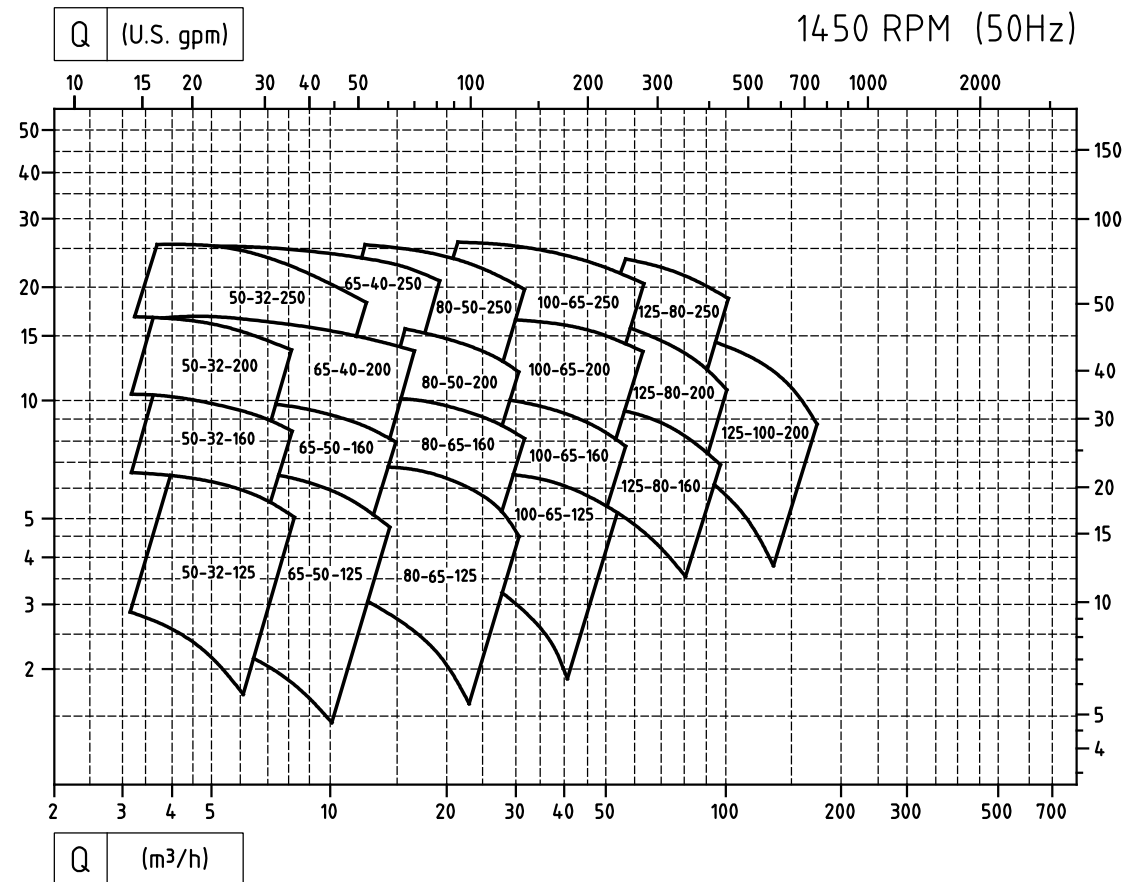
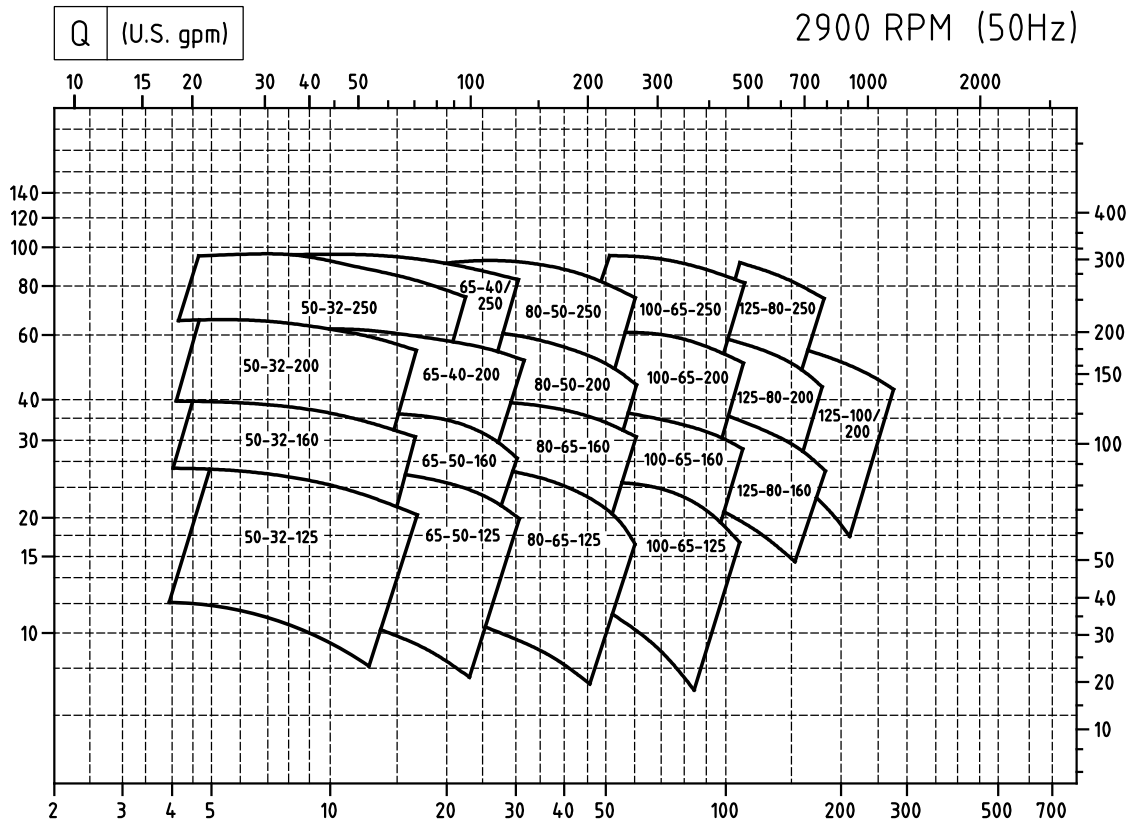
- **Das Dual-back-pull-out-design** ermöglicht den schnellen Austausch von Verschleißteilen, ohne die Pumpen vom Rohrleitungssystem trennen zu müssen.

- **Das Quick-Change-Cartridge-System** bietet den problemlosen Austausch der Verschleißteile in wenigen Minuten, ohne besondere Werkzeuge.

- **ATEX Ausführungen**  
Alle Pumpen der Baureihe MCA sind für den Einsatz in explosionsgefährdeten Bereichen lieferbar.  
Zündschutzart Ex II2G T3-5.

- **Sonderausführungen**  
Sonderausführungen für Hoch- oder Tieftemperaturanwendungen (-150°C bis zu + 350°C), sowie Druckstufe PN160 bar sind auf Anfrage lieferbar.

- **Sonderwerkstoffe**  
Hastelloy C 276, Duplex 22% Cr, Titan



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 Rathenastraße 2  
 D-35394 Gießen  
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 info@march-pumpen.com

Baureihe / Series:

MCA

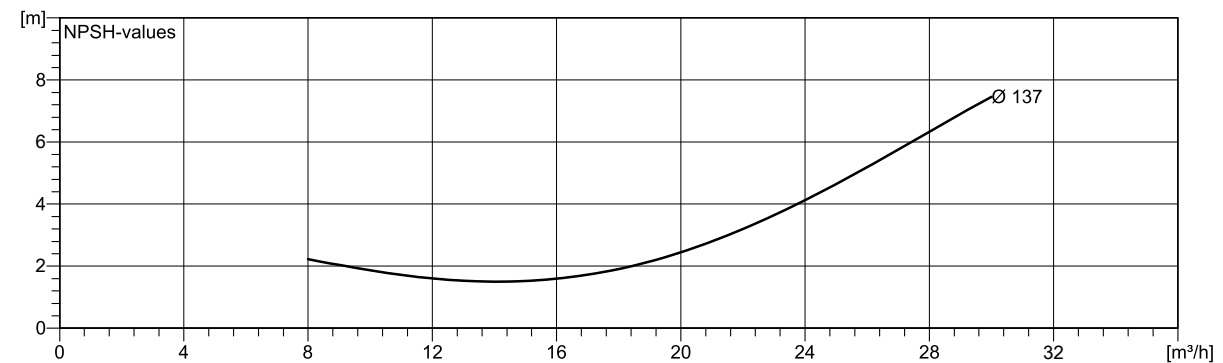
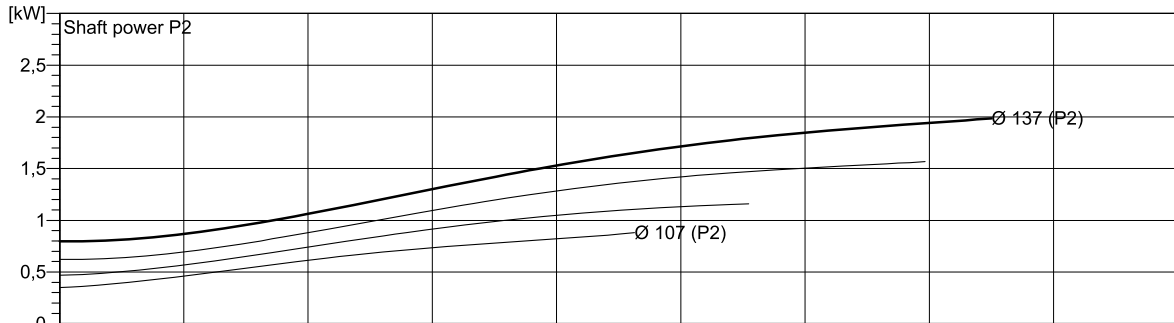
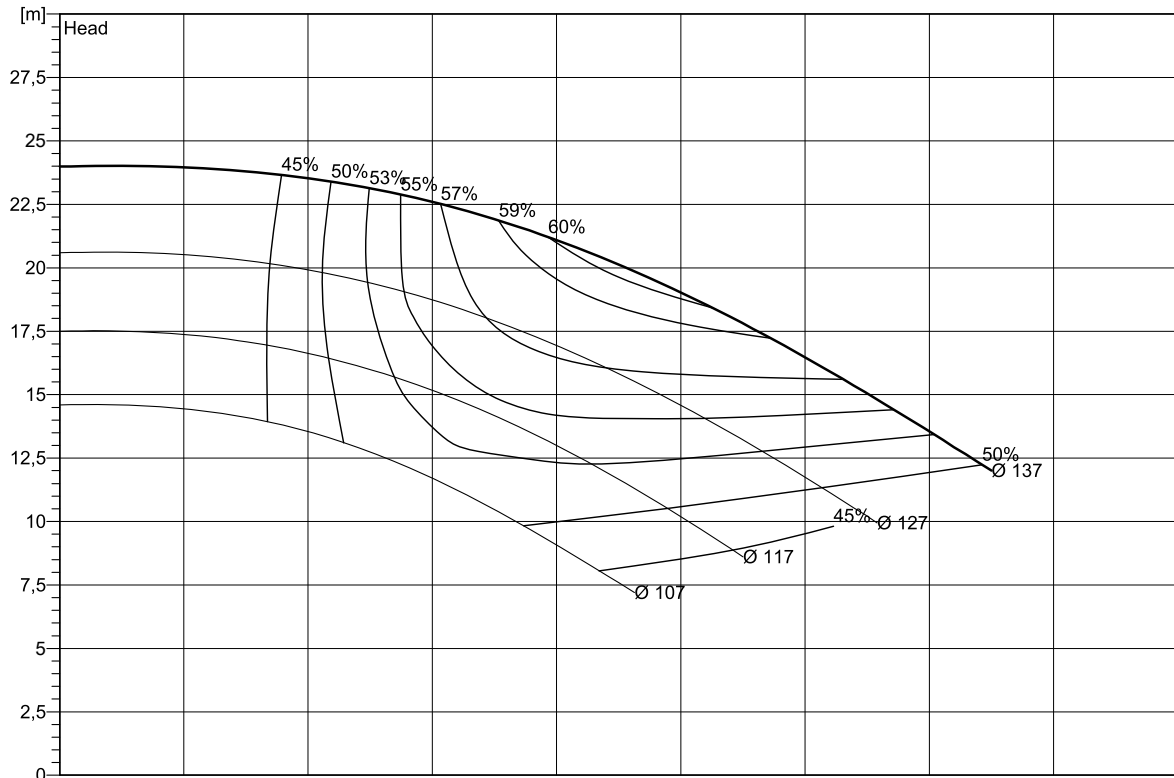
Typ / Type:

Family Curves

Motor Speed:

2900 / 1450 1/min

Duty point			
Capacity: m <sup>3</sup> /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



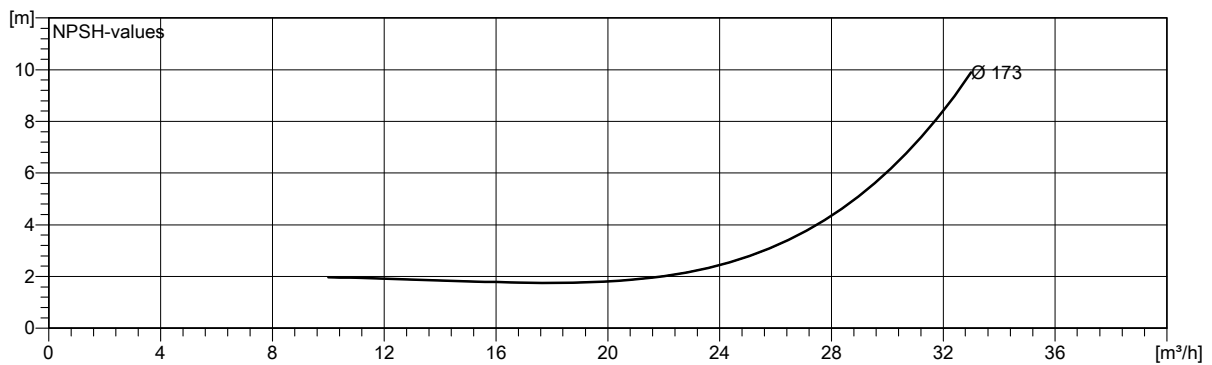
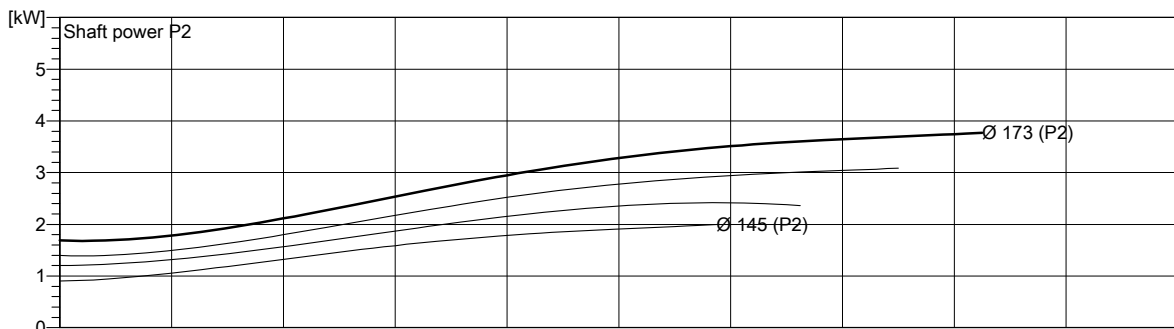
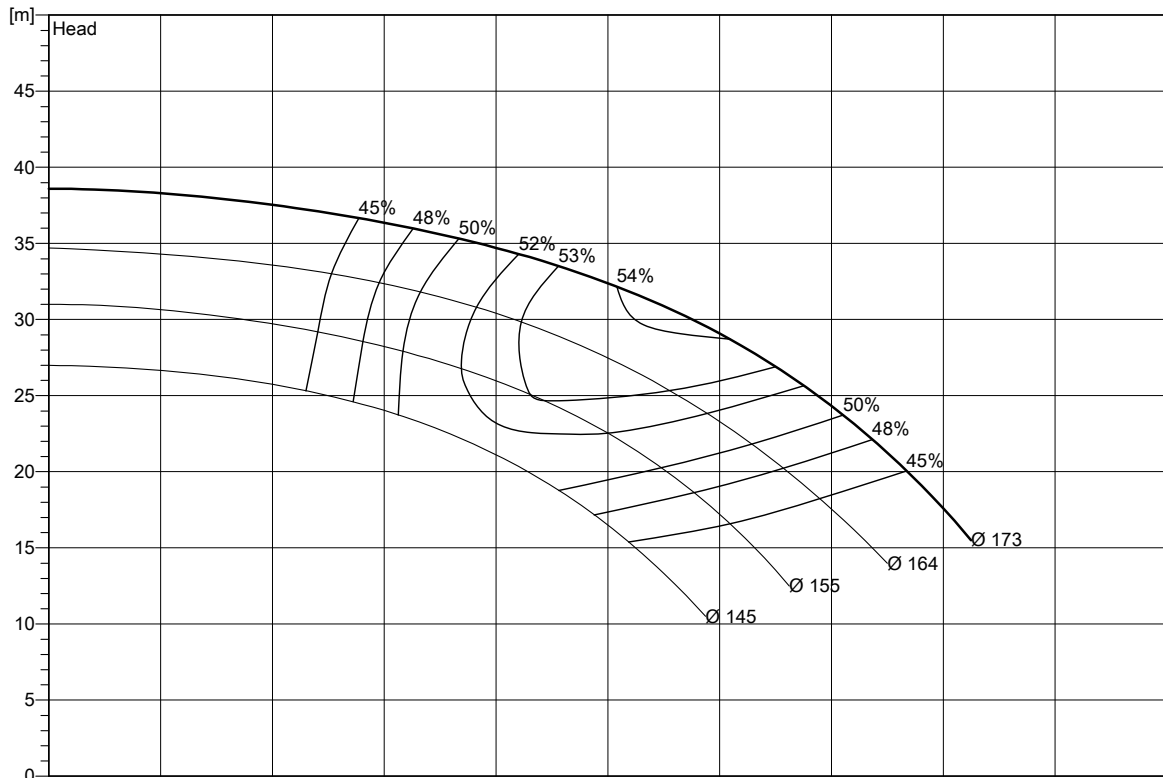
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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

Baureihe / Series: **MCA**  
 Typ / Type: **MCA 50-32-125**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses:	2,0 kW
		Suction nozzle:	DN 50 PN 16
		Discharge nozzle:	DN 32 PN 16
		Max. abs. power:	
		Selected impeller:	



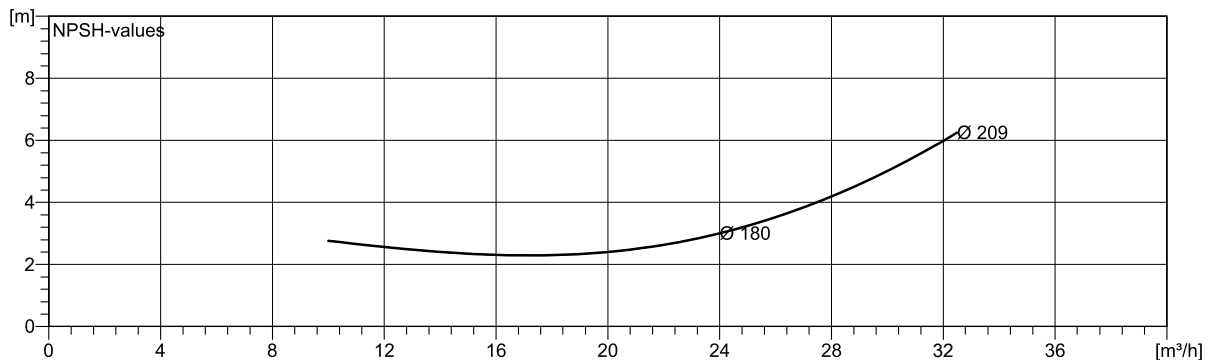
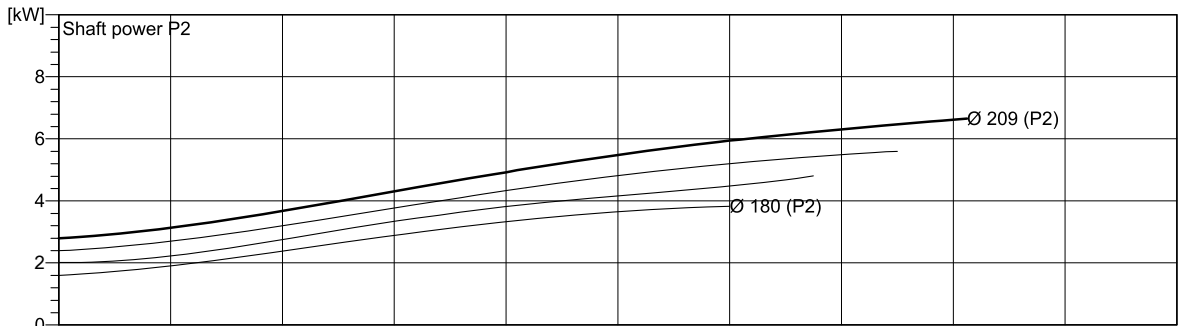
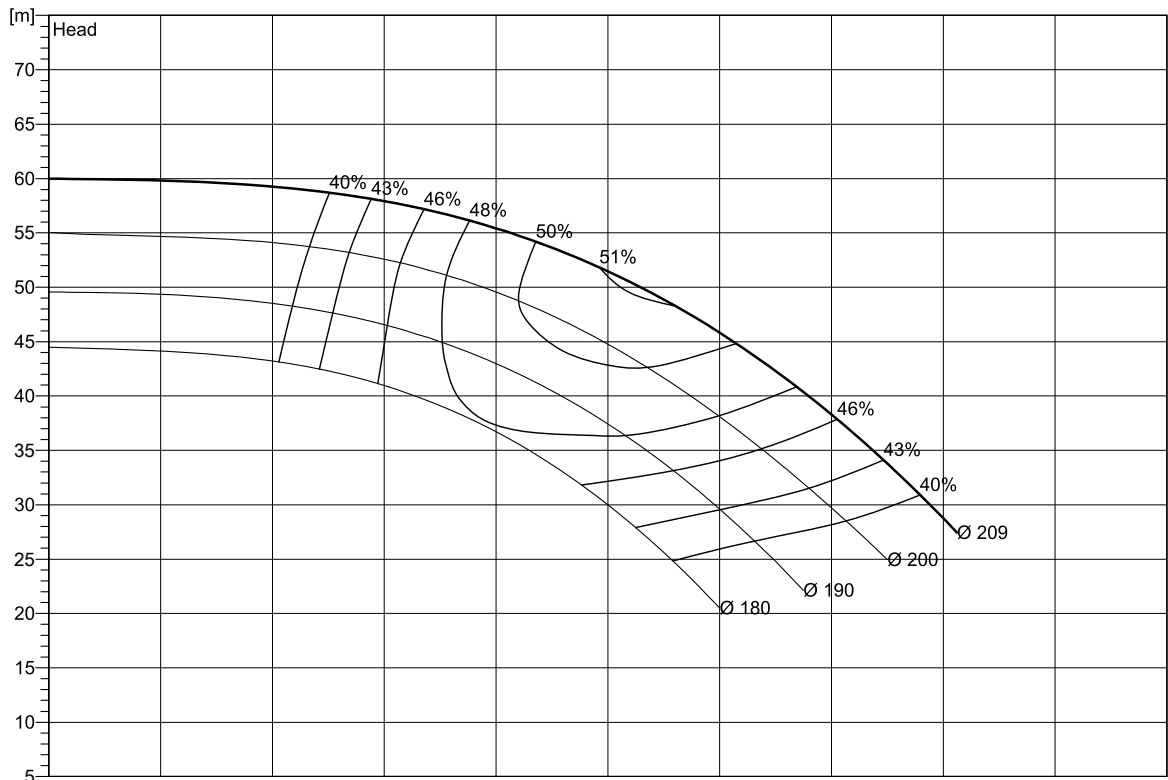
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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

Baureihe / Series: **MCA**  
 Typ / Type: **MCA 50-32-160**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity: m <sup>3</sup> /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



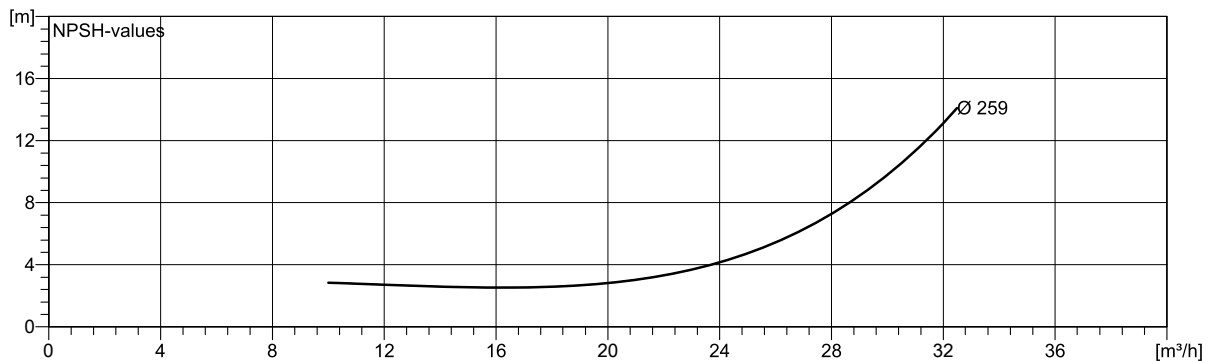
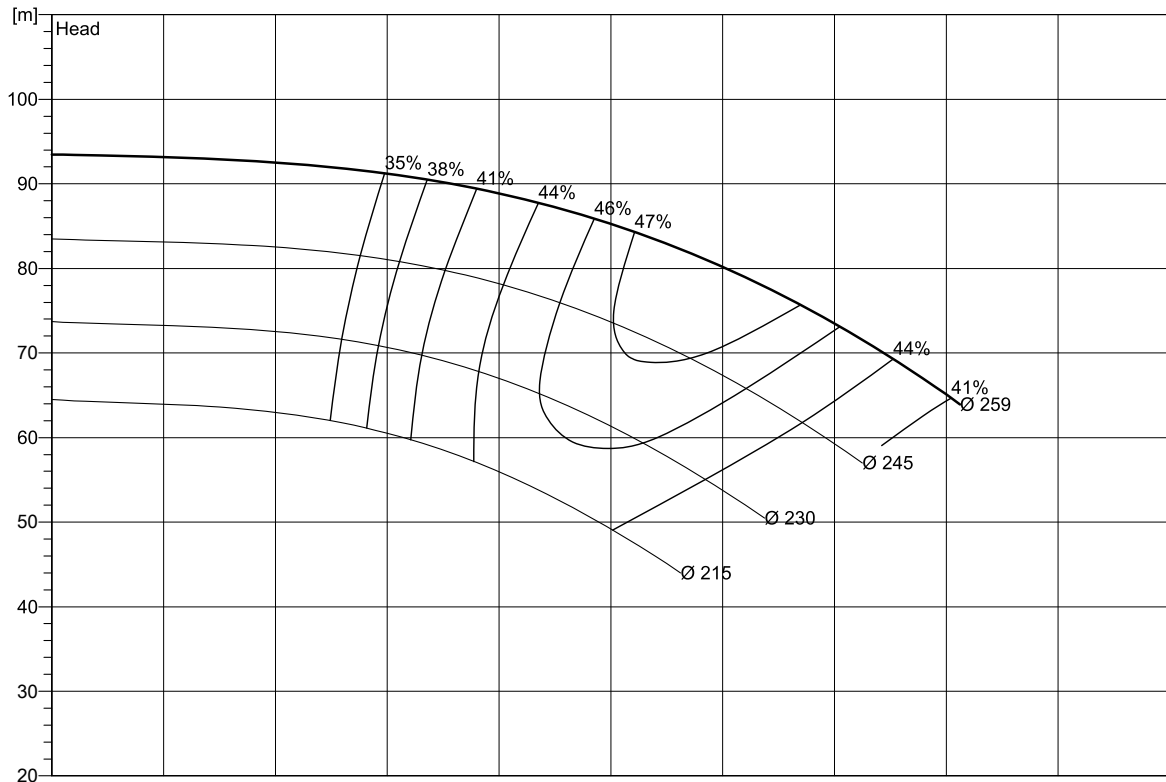
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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 info@march-pumpen.com

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

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses:	7,0 kW
		Suction nozzle:	DN 50 PN 16
		Discharge nozzle:	DN 32 PN 16
		Max. abs. power:	
		Selected impeller:	



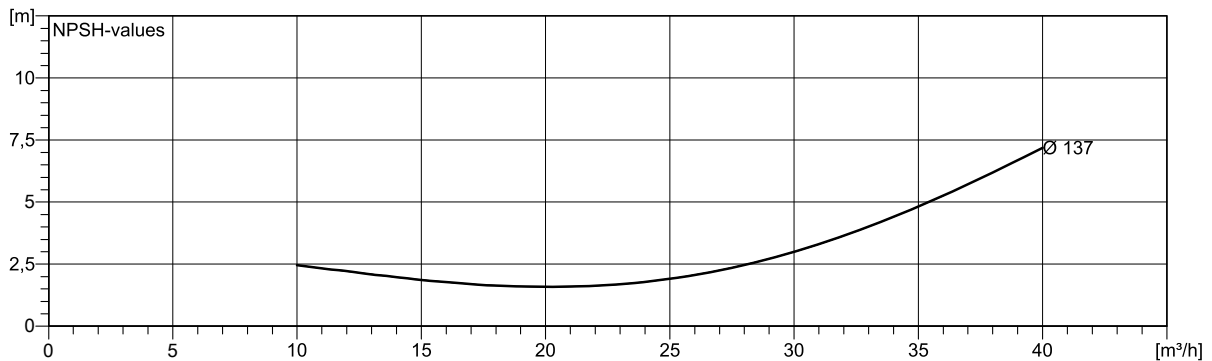
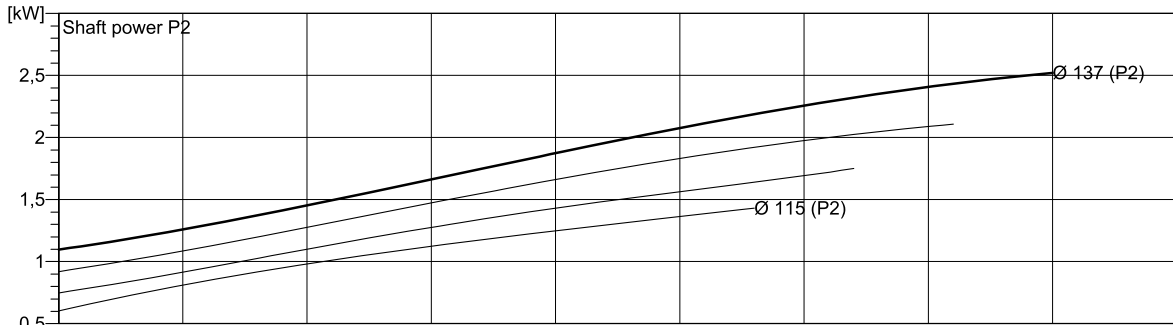
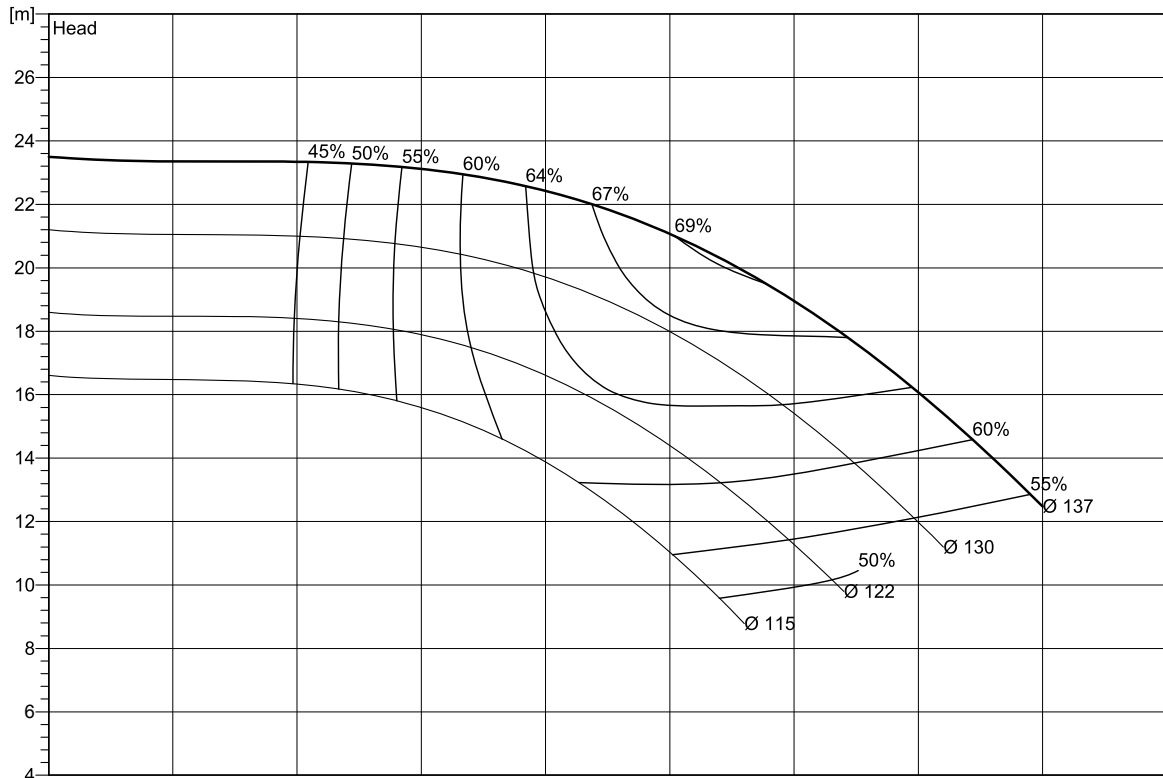
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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

Duty point			
Capacity: m <sup>3</sup> /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



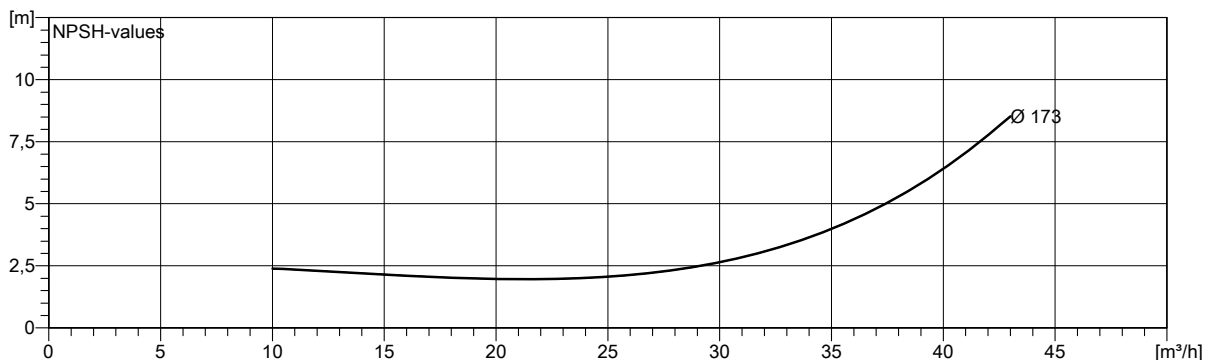
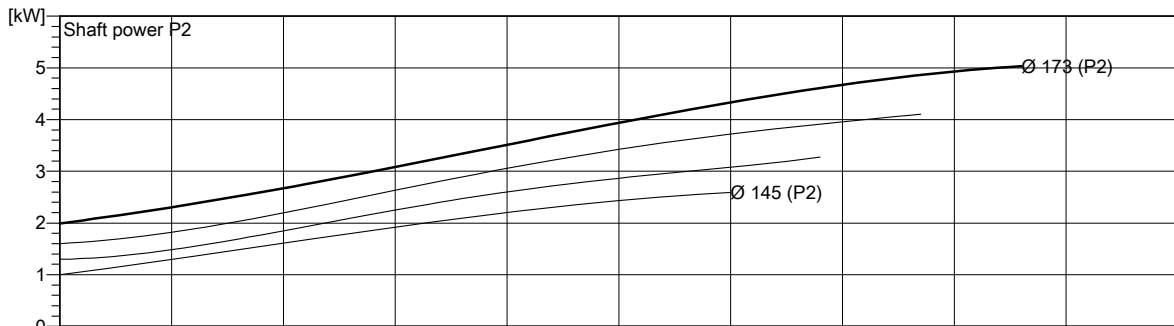
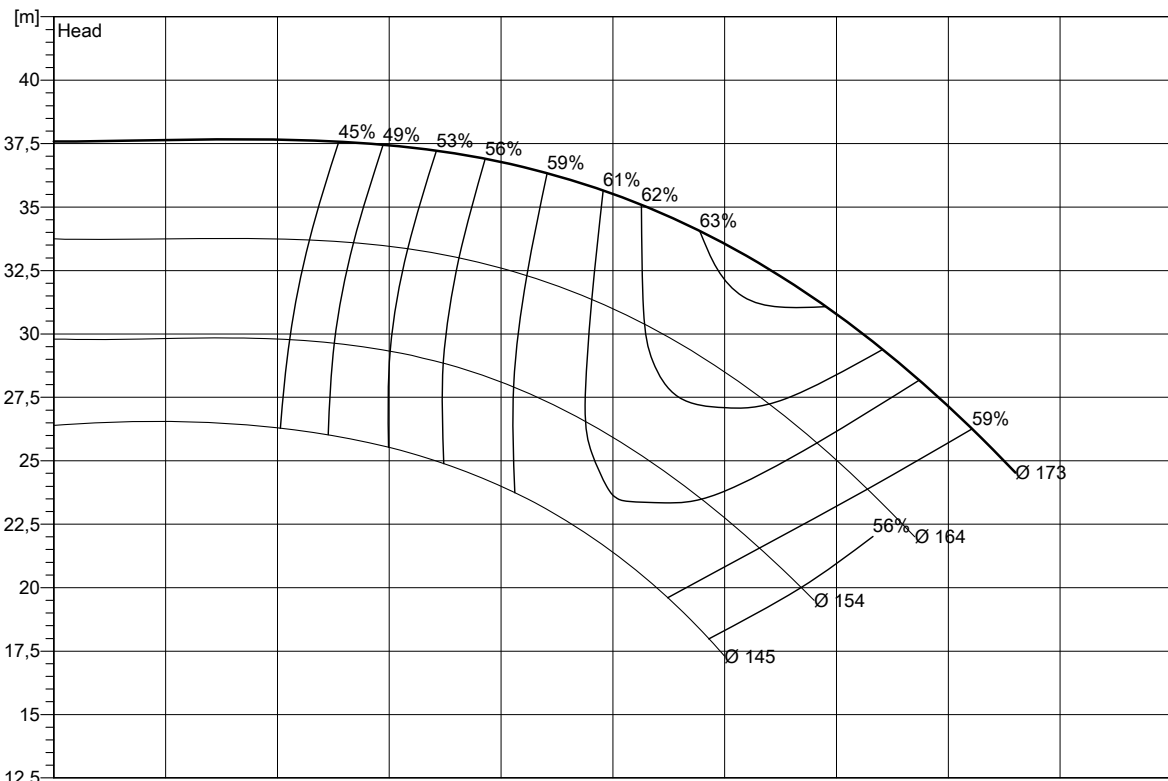
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 65-50-125**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses :	2,0 kW
		Suction nozzle:	DN 65 PN 16
		Discharge nozzle:	DN 50 PN 16
		Max. abs. power:	
		Selected impeller:	



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

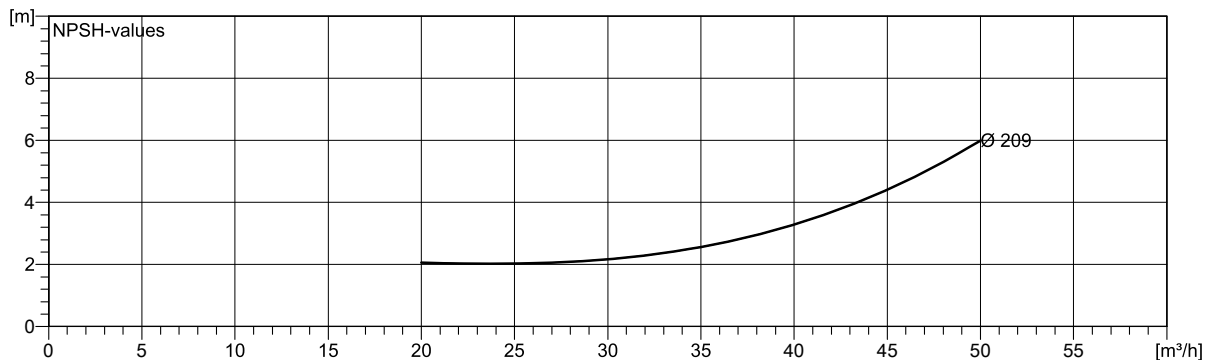
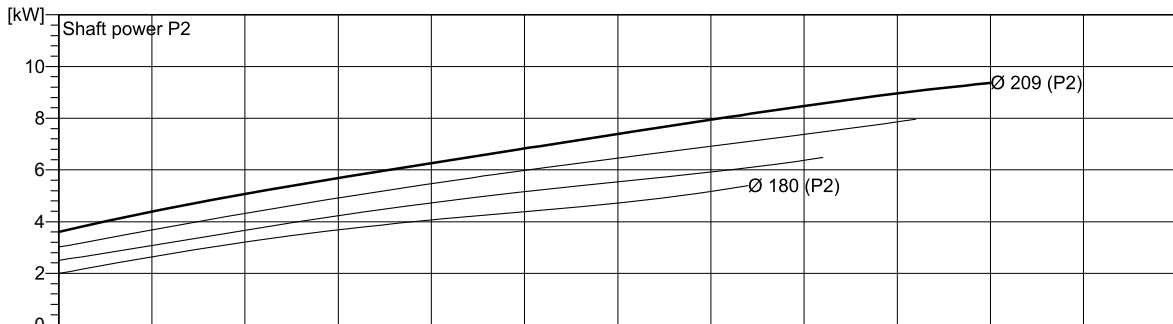
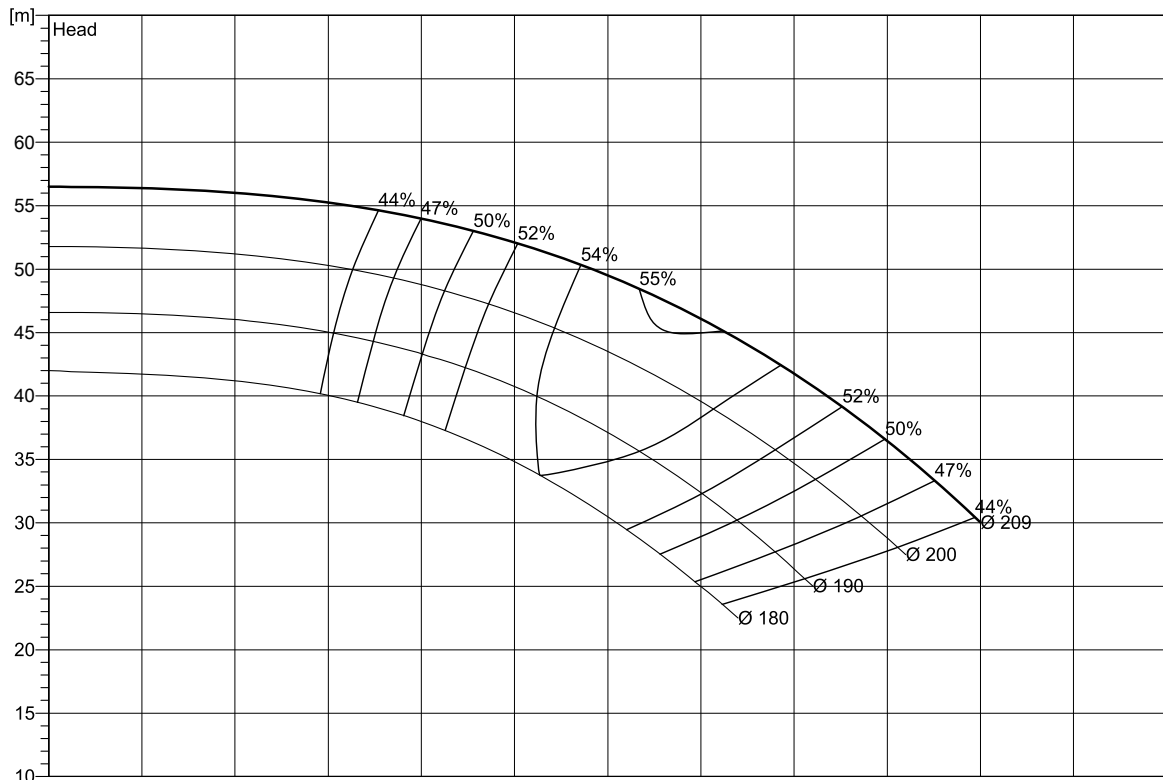


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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 65-50-160**  
 Standard Motor: **2900 1/min**



Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses:	2,0 kW
		Selected impeller:	
		Suction nozzle:	DN 65 PN 16
		Discharge nozzle:	DN 40 PN 16



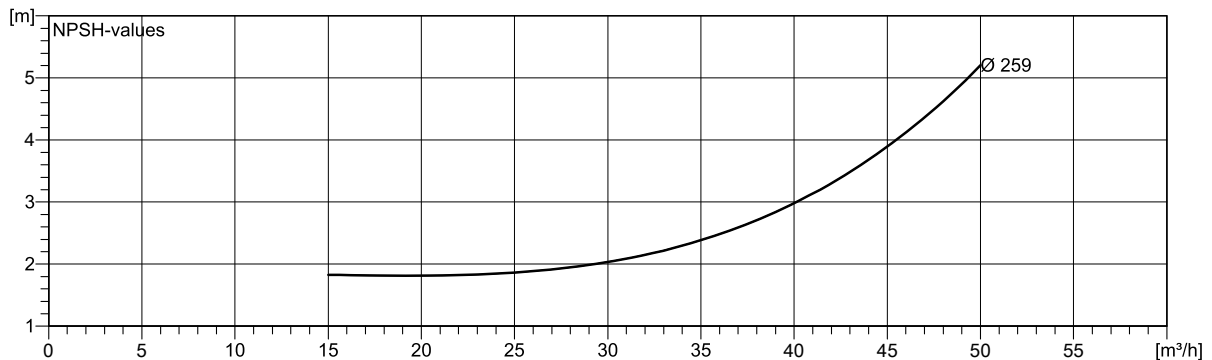
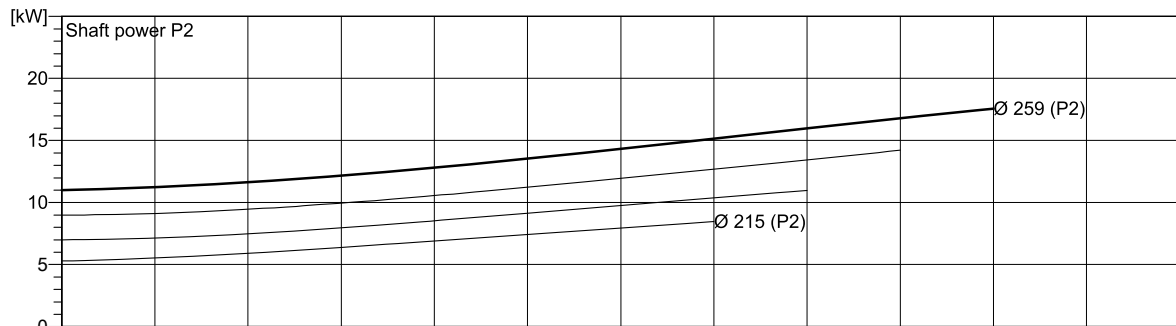
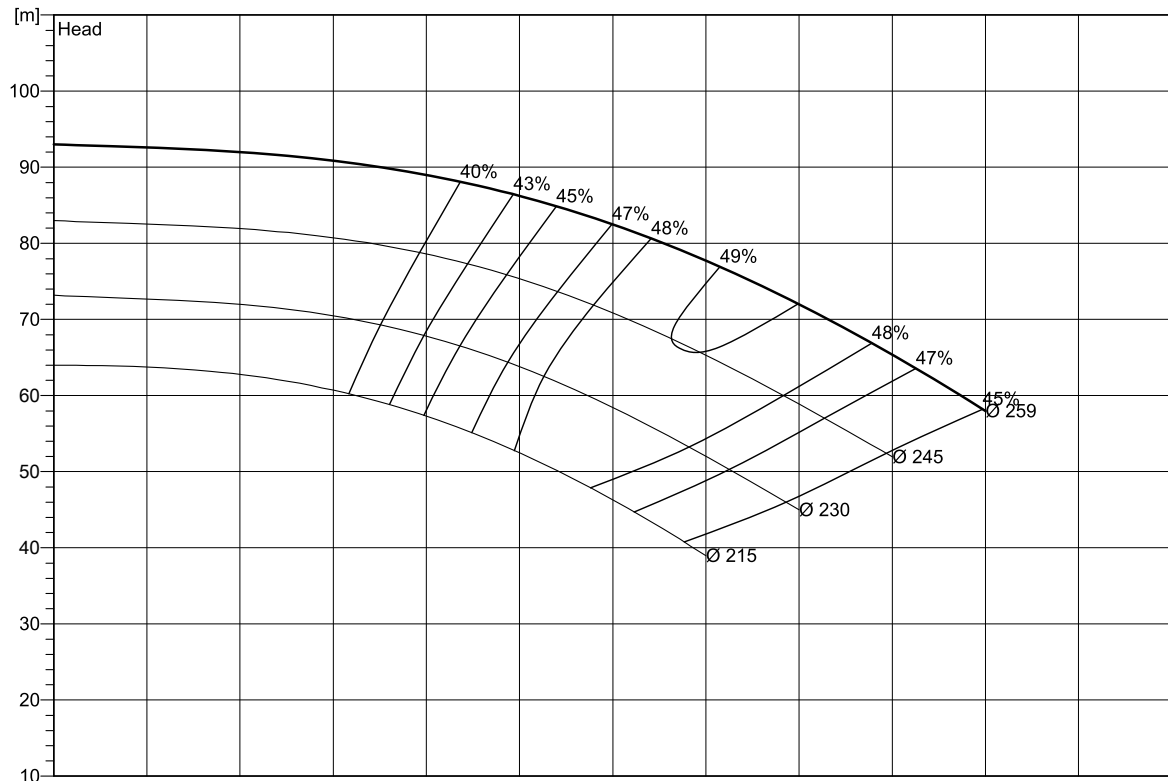
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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 65-40-200**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity: m <sup>3</sup> /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



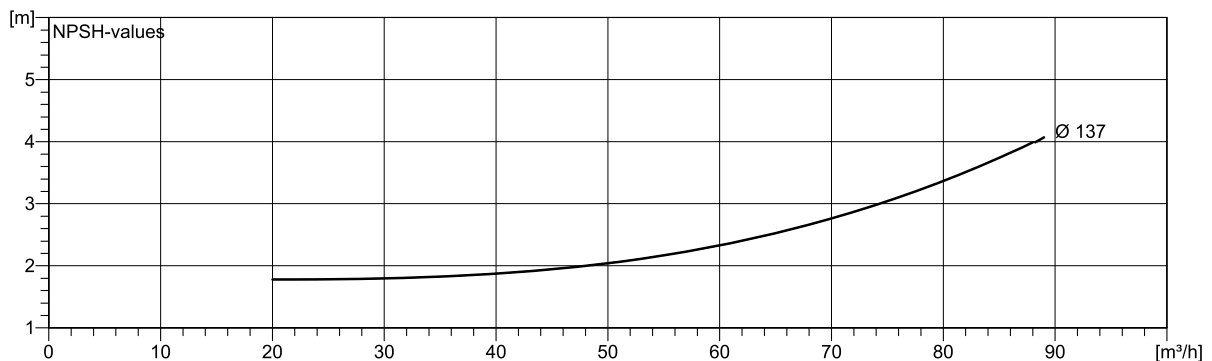
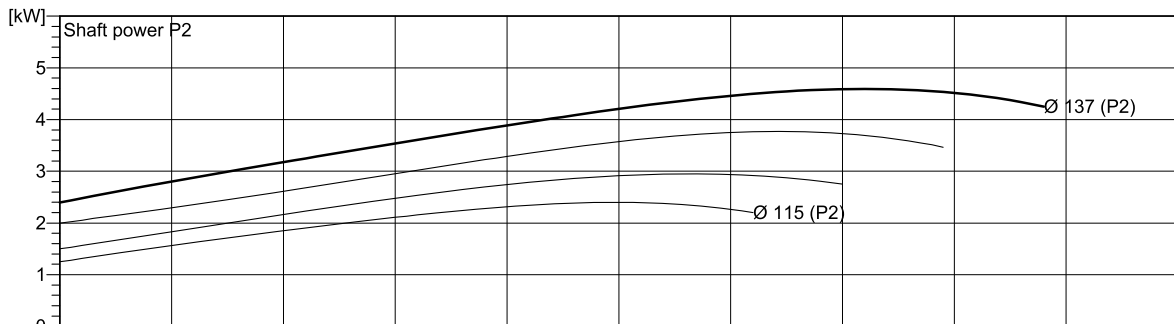
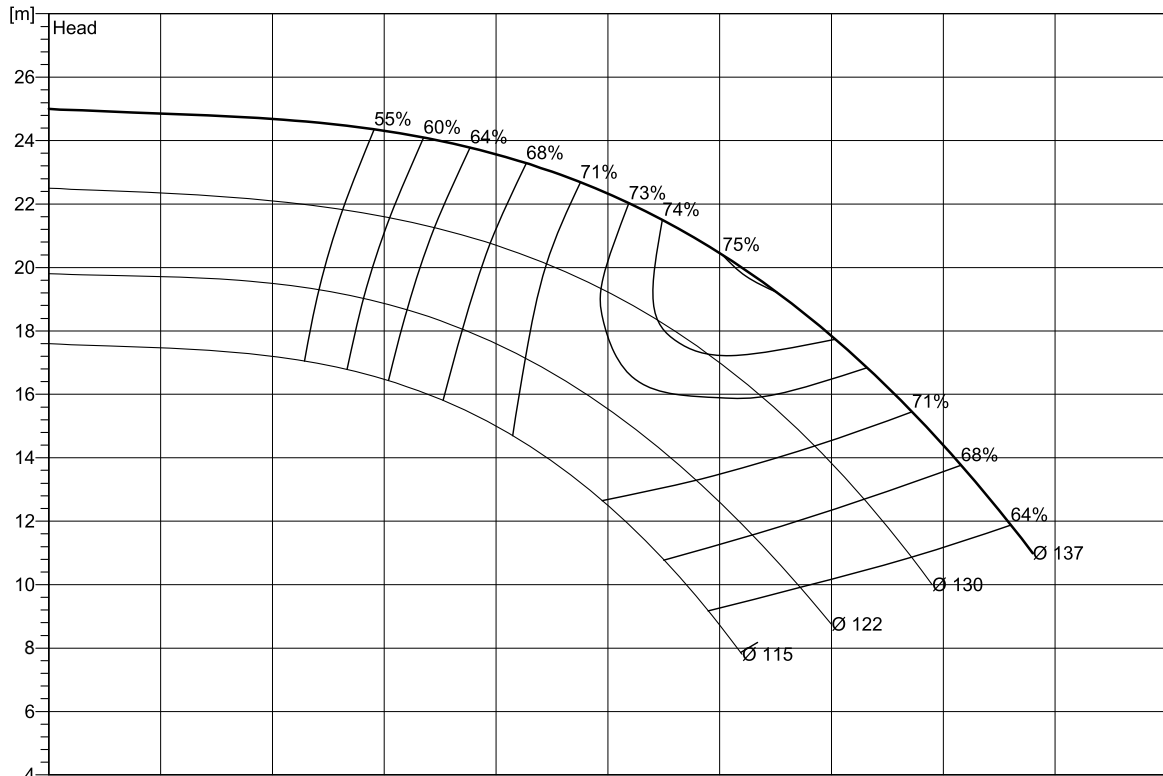
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 65-40-250**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses:	2,0 kW
		Selected impeller:	
		Suction nozzle:	DN 80 PN 16
		Discharge nozzle:	DN 65 PN 16



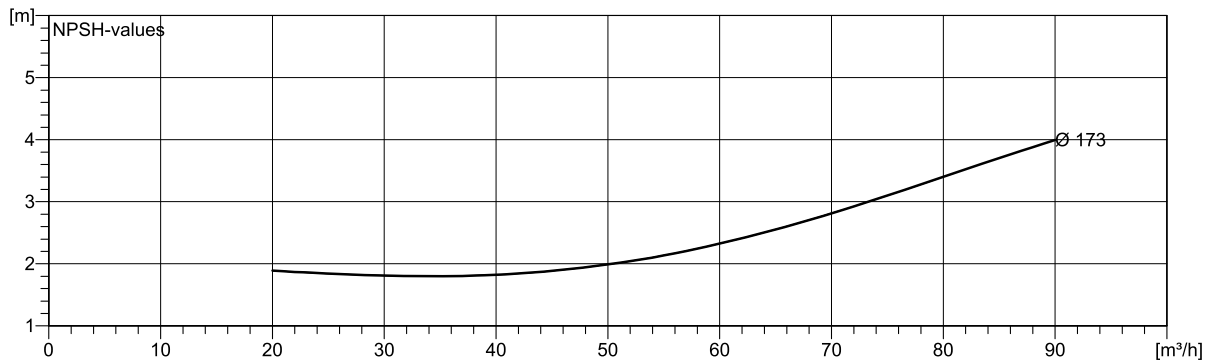
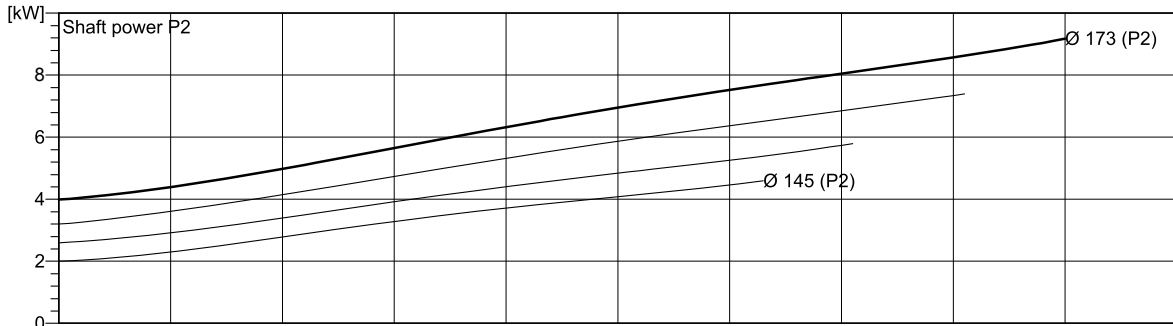
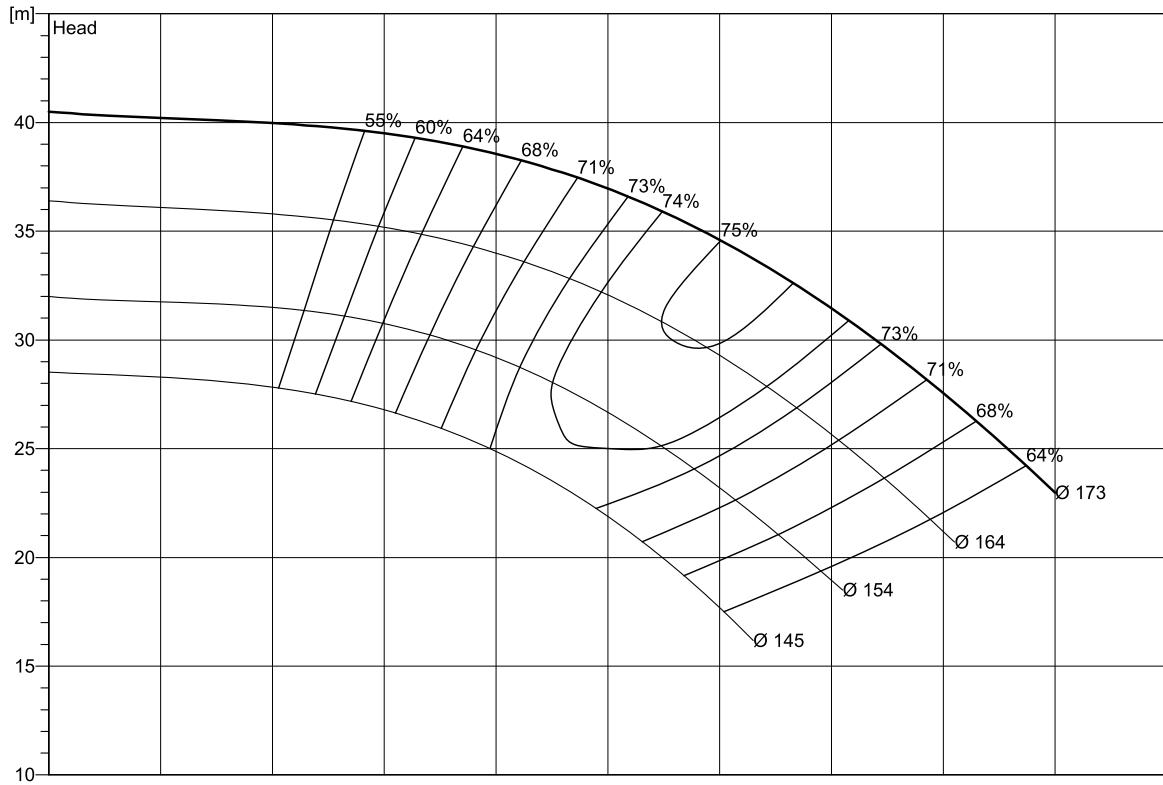
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 info@march-pumpen.com

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

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses:	2,0 kW
		Selected impeller:	
		Suction nozzle:	DN 80 PN 16
		Discharge nozzle:	DN 65 PN 16



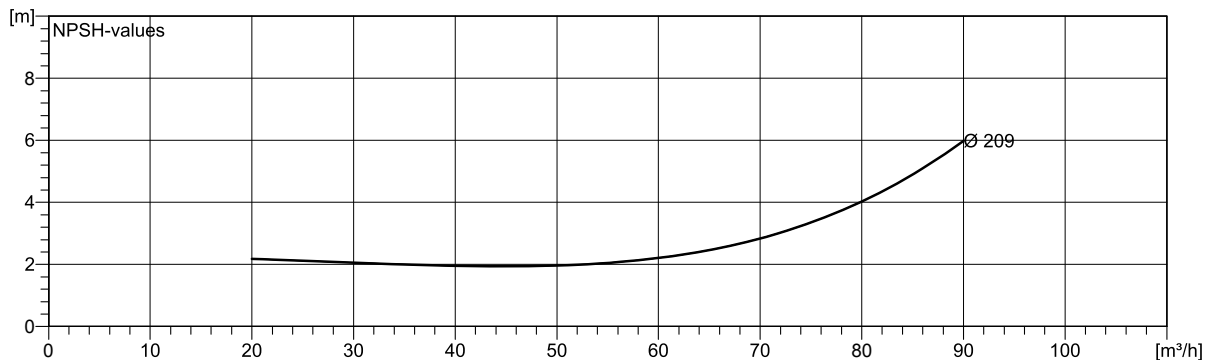
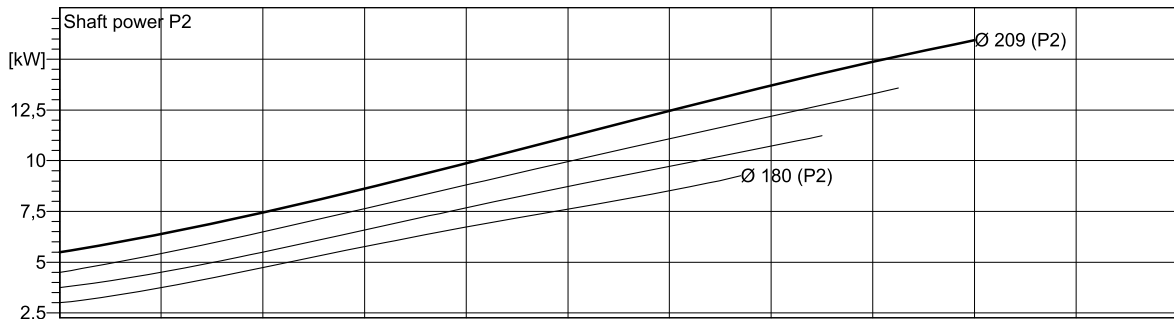
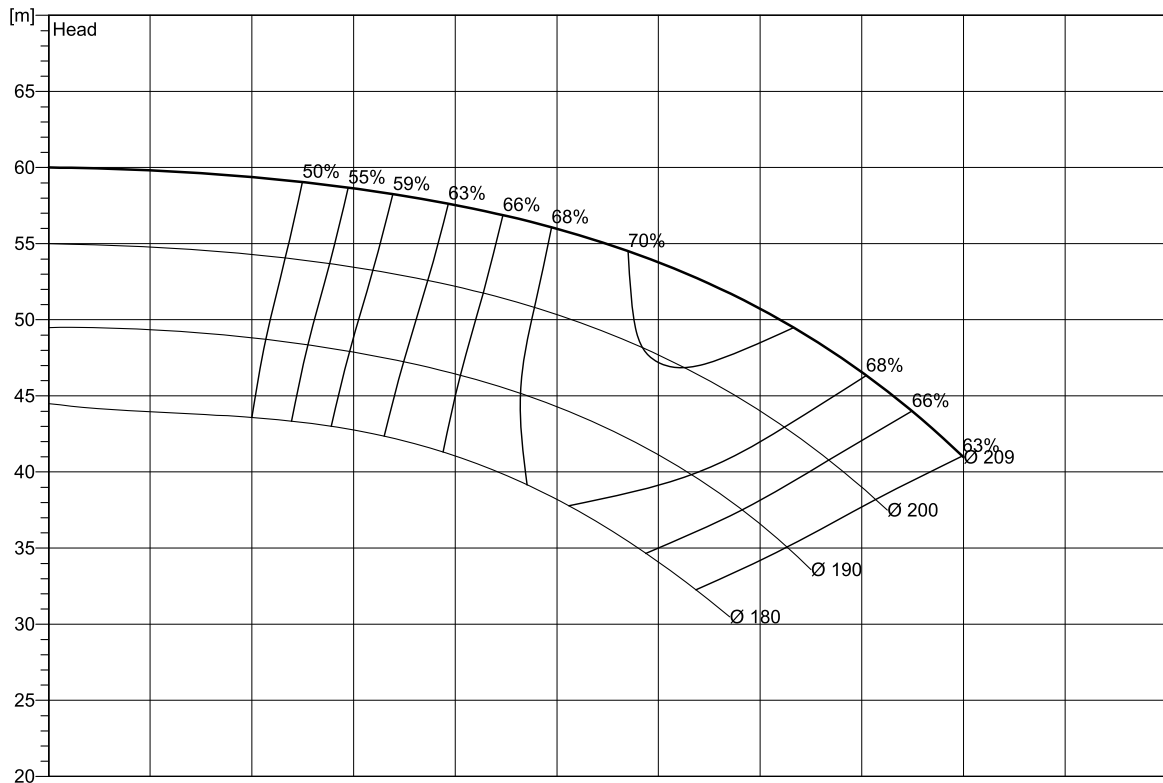
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 info@march-pumpen.com

Baureihe / Series: **MCA**  
 Typ / Type: **MCA 80-65-160**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses:	2,0 kW
		Suction nozzle:	DN 80 PN 16
		Discharge nozzle:	DN 50 PN 16
		Max. abs. power:	
		Selected impeller:	



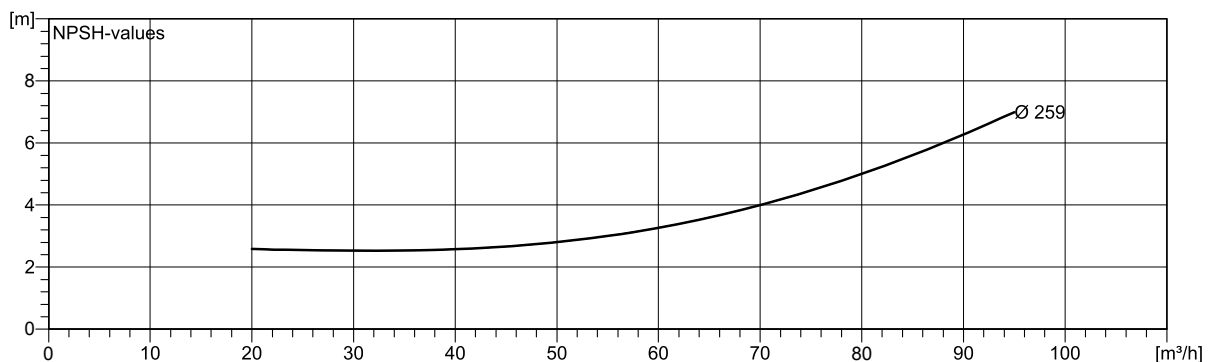
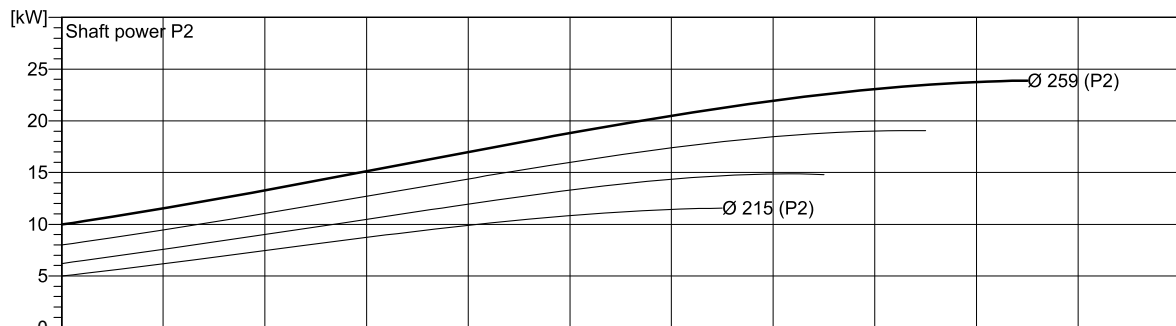
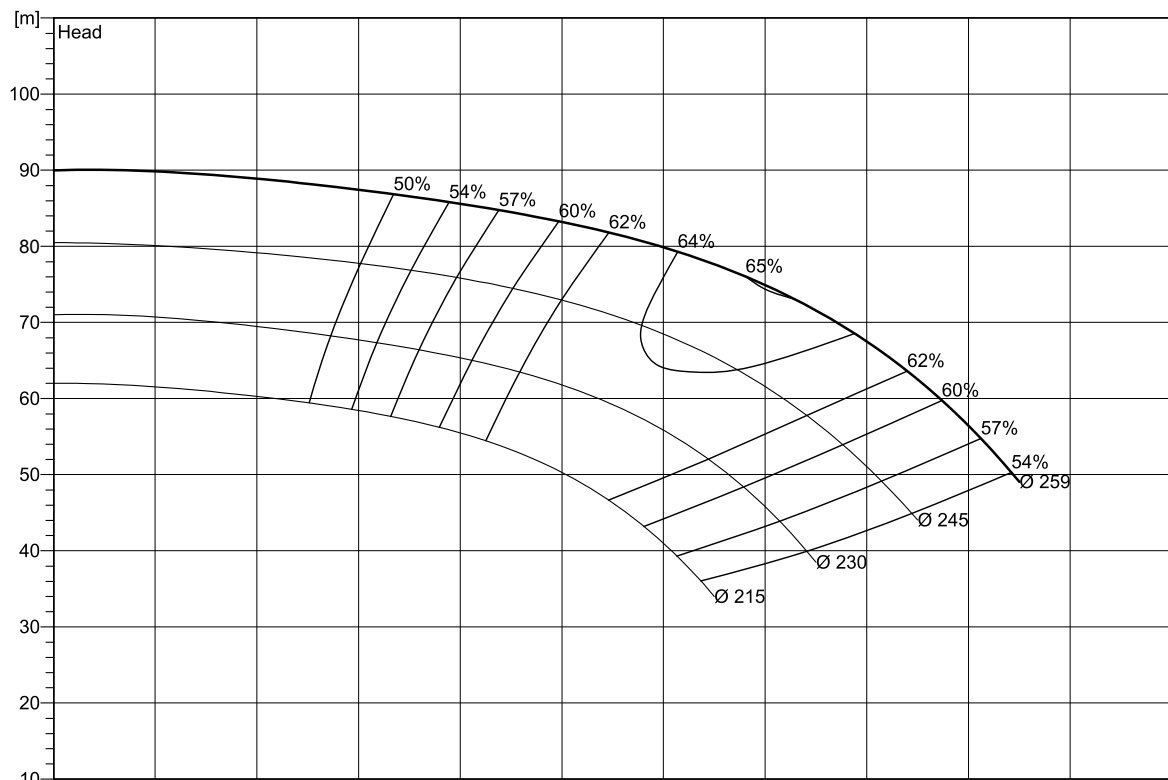
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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 info@march-pumpen.com

Baureihe / Series: **MCA**  
 Typ / Type: **MCA 80-50-200**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity: m <sup>3</sup> /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



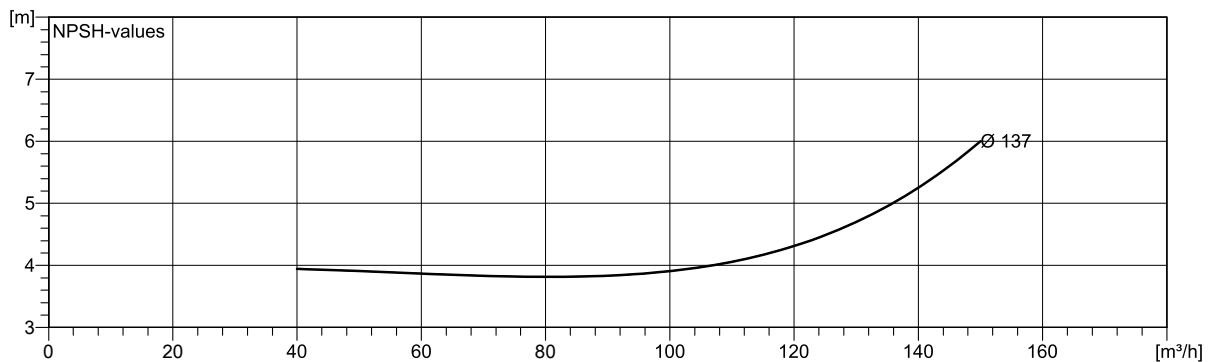
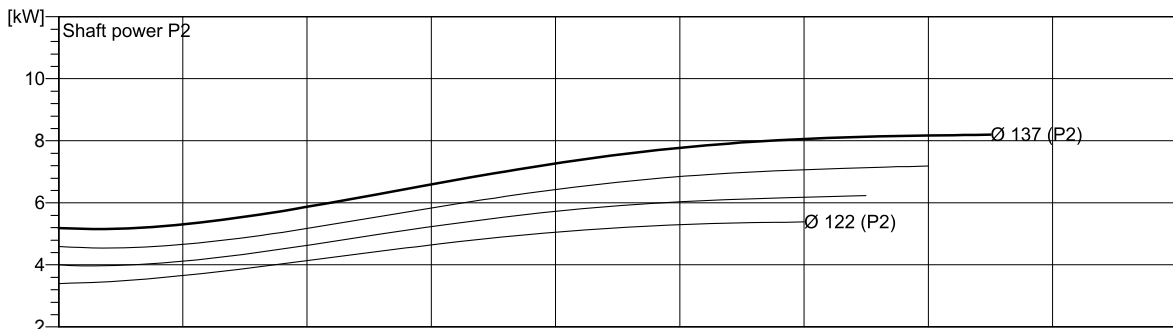
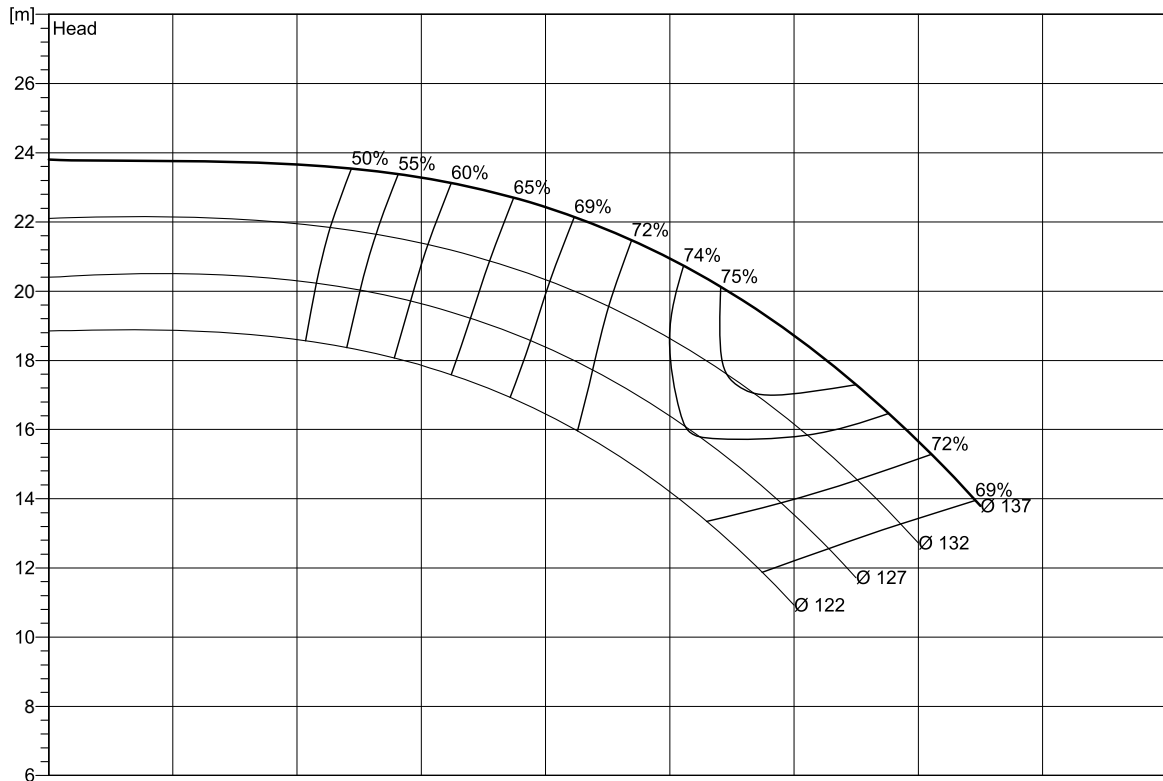
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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 D-35394 Gießen  
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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 80-50-250**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2900 1/min 50 Hz
Fluid:		Magnetic losses:	2,0 kW
		Selected impeller:	
		Suction nozzle:	DN 100 PN 16
		Discharge nozzle:	DN 80 PN 16



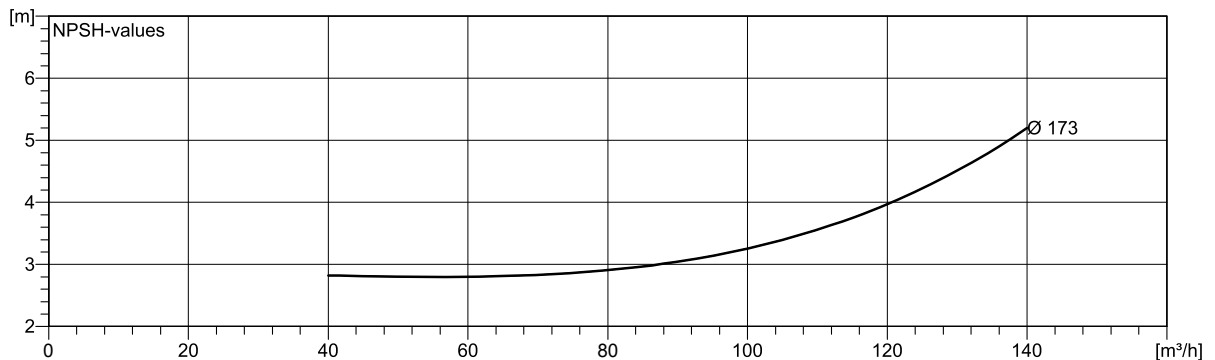
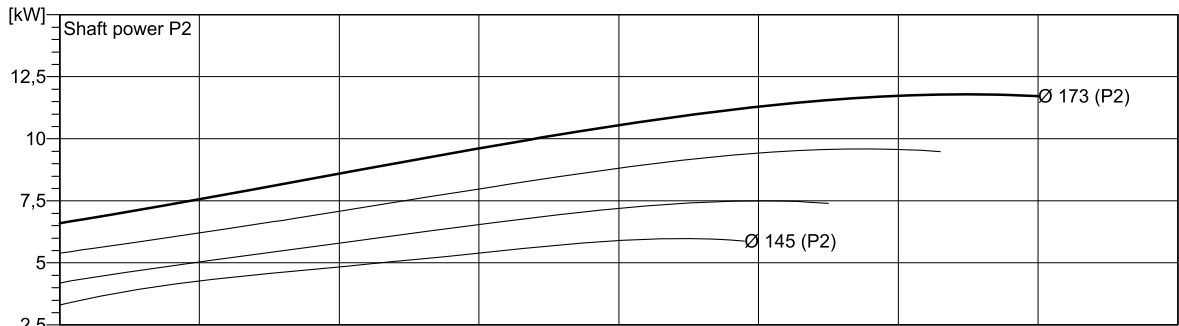
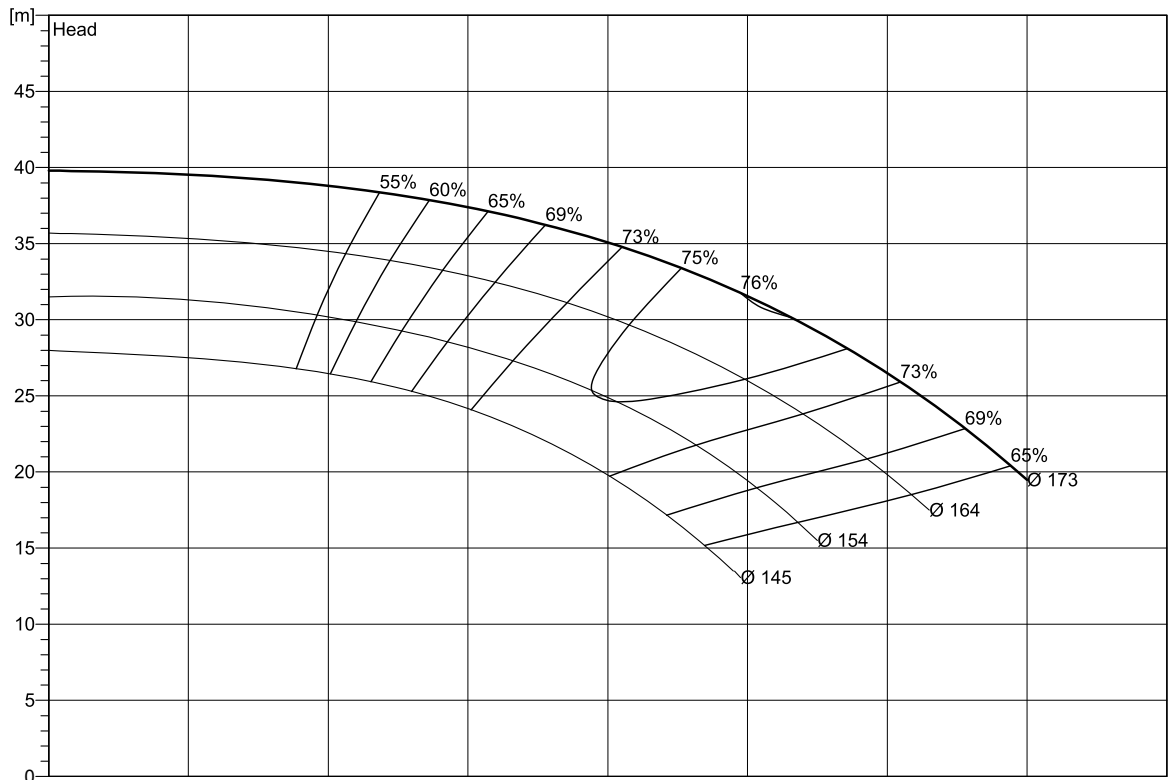
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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 D-35394 Gießen  
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 info@march-pumpen.com

Baureihe / Series: **MCA**  
 Typ / Type: **MCA 100-80-125**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity:	m <sup>3</sup> /h	Differential head:	m
Motor power:		Speed:	2930 1/min 50 Hz
Fluid:		Magnetic losses:	7,0 kW
		Selected impeller:	
		Suction nozzle:	DN 100 PN 16
		Discharge nozzle:	DN 80 PN 16



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

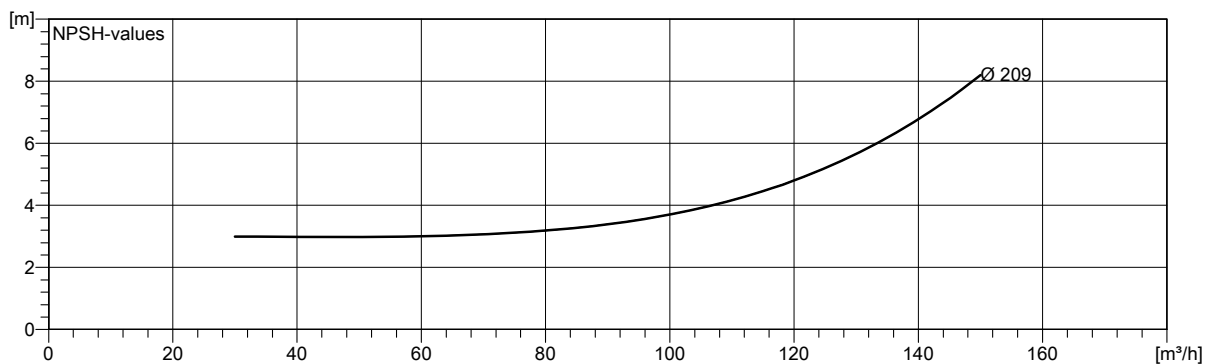
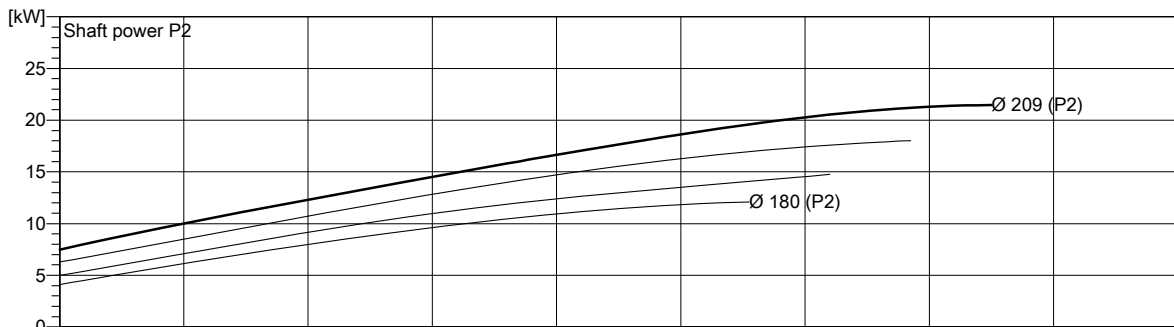
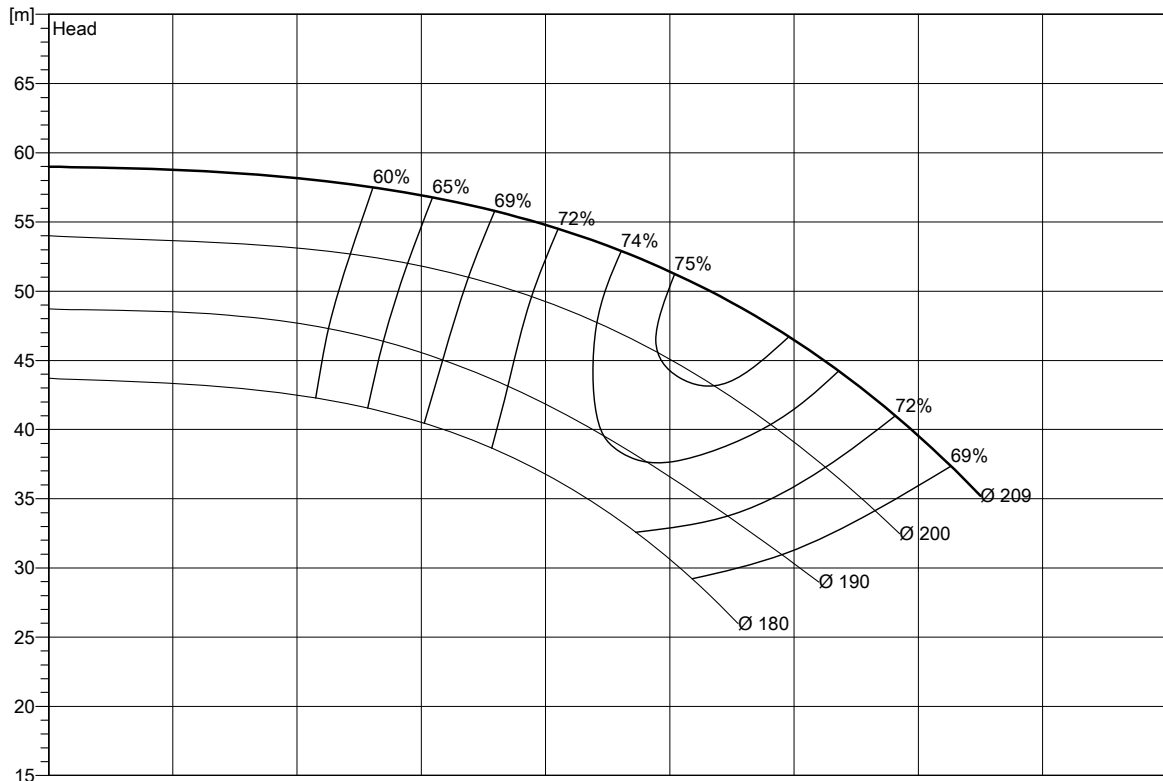


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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 100-80-160**  
 Standard Motor: **2900 1/min**



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



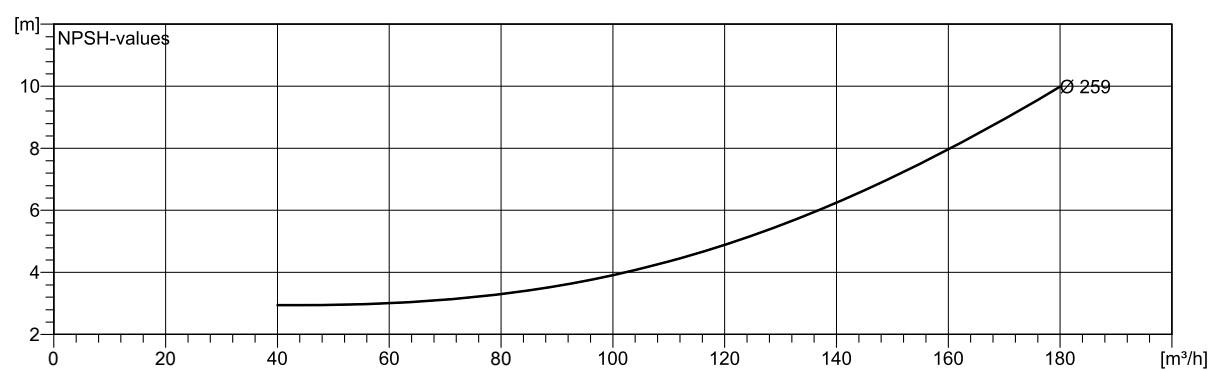
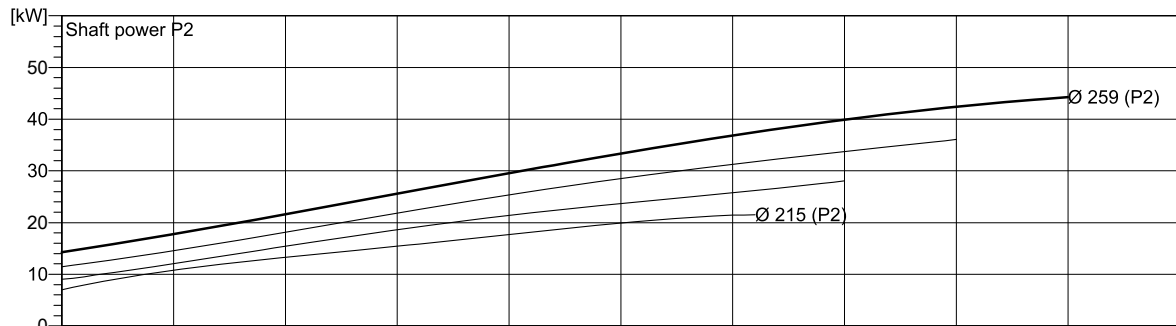
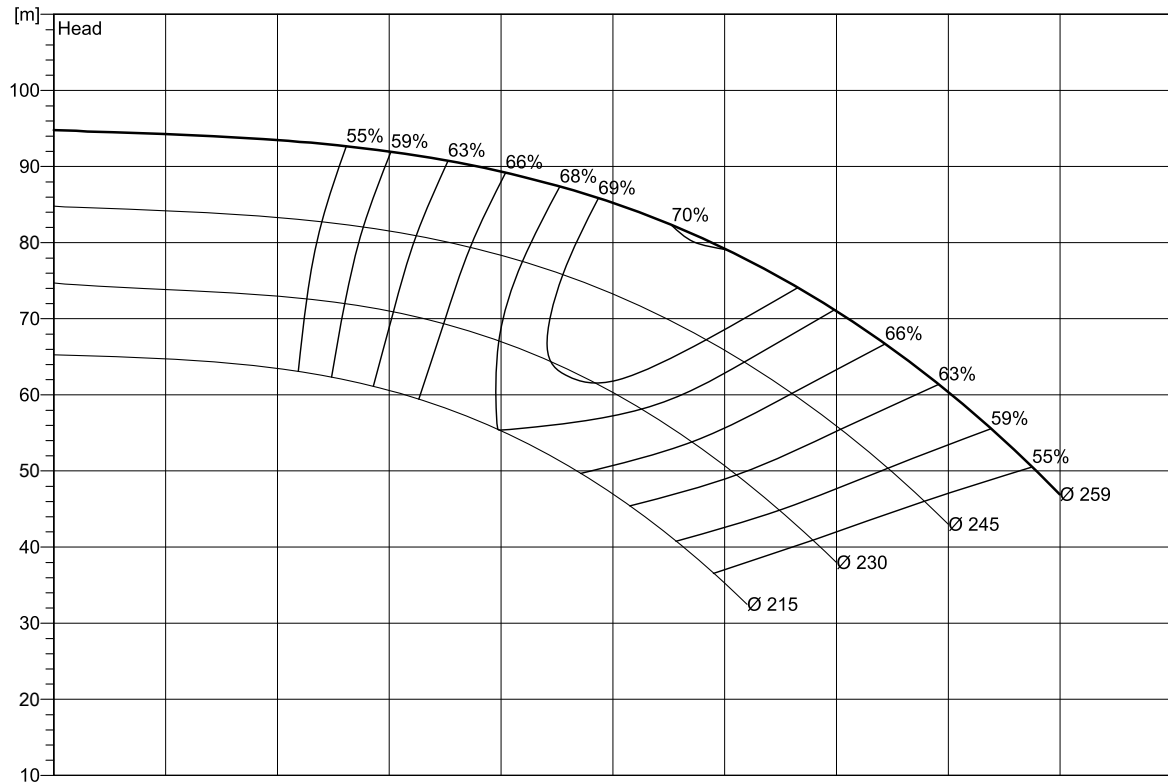
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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

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



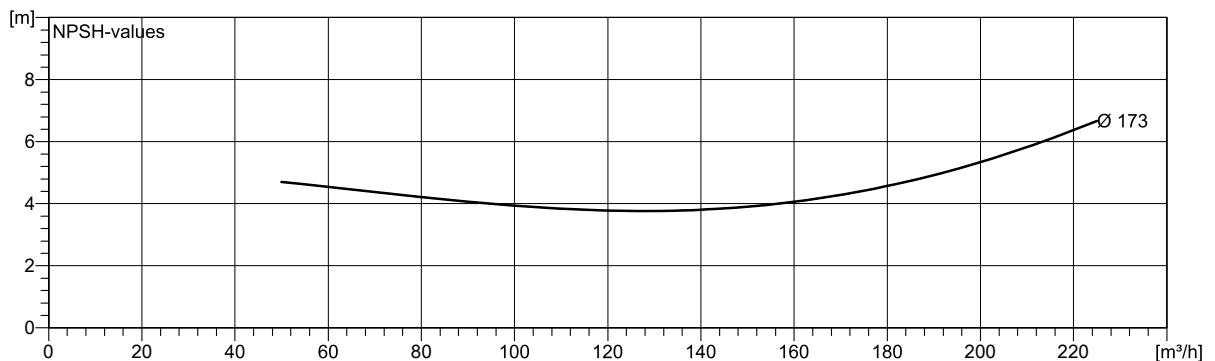
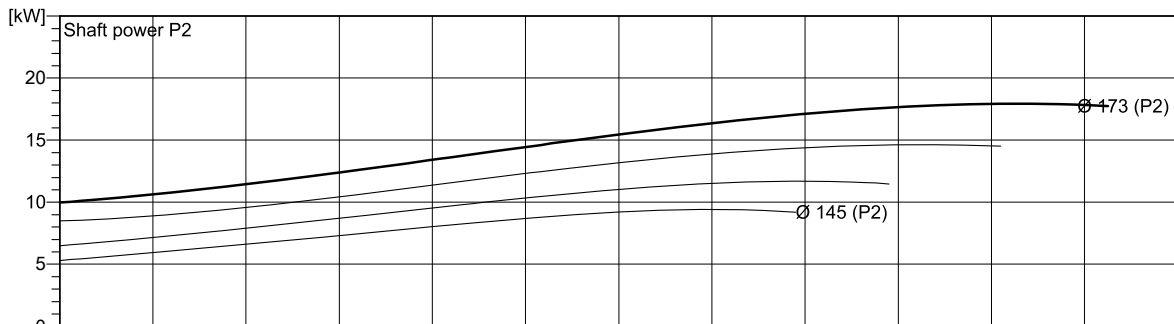
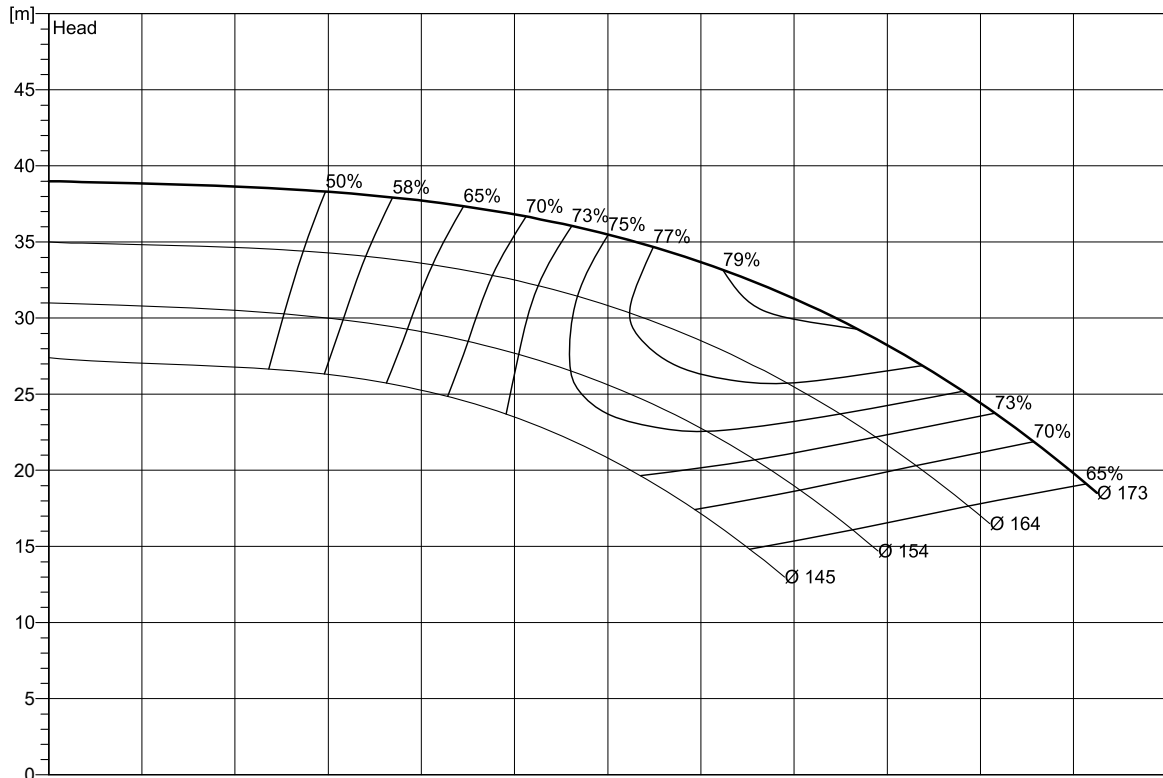
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 100-65-250**  
 Standard Motor: **2900 1/min**

Duty point			
Capacity: m <sup>3</sup> /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



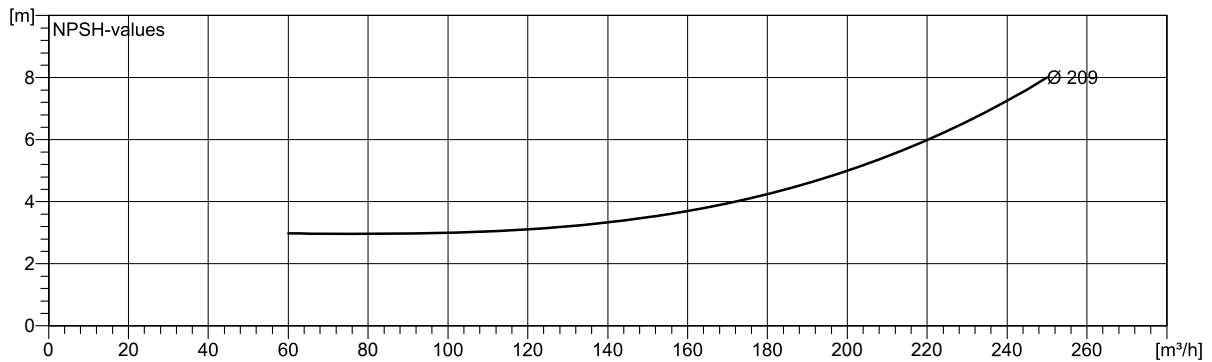
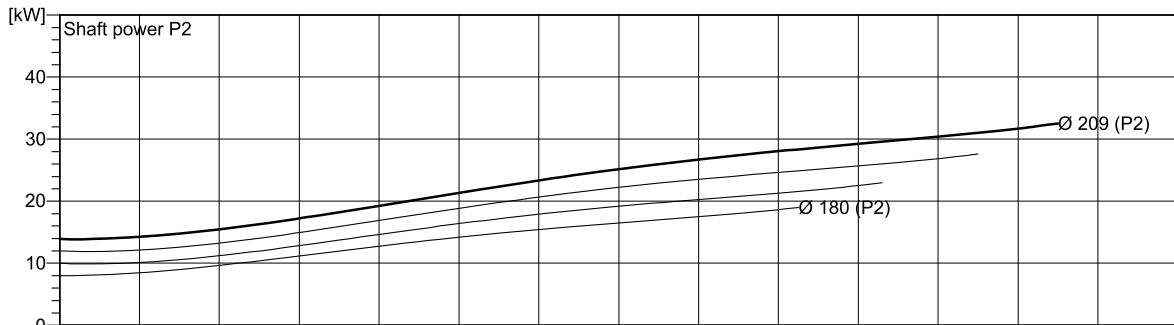
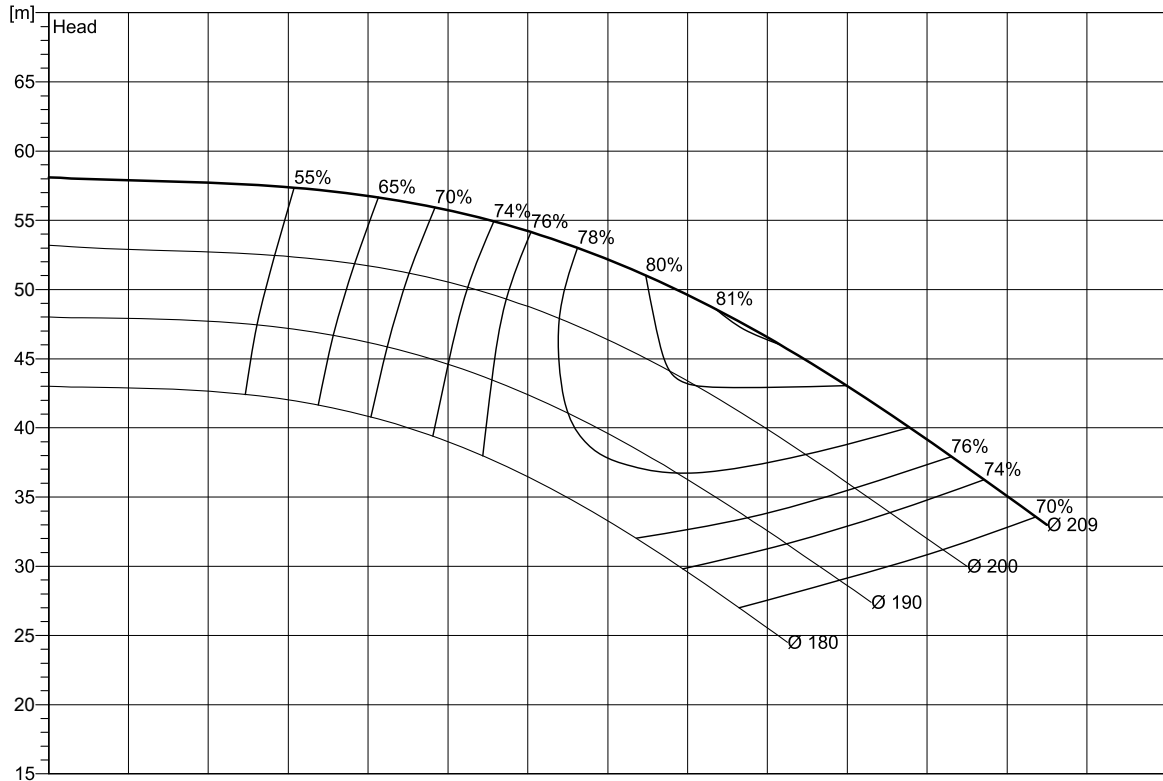
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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

Duty point			
Capacity: m <sup>3</sup> /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



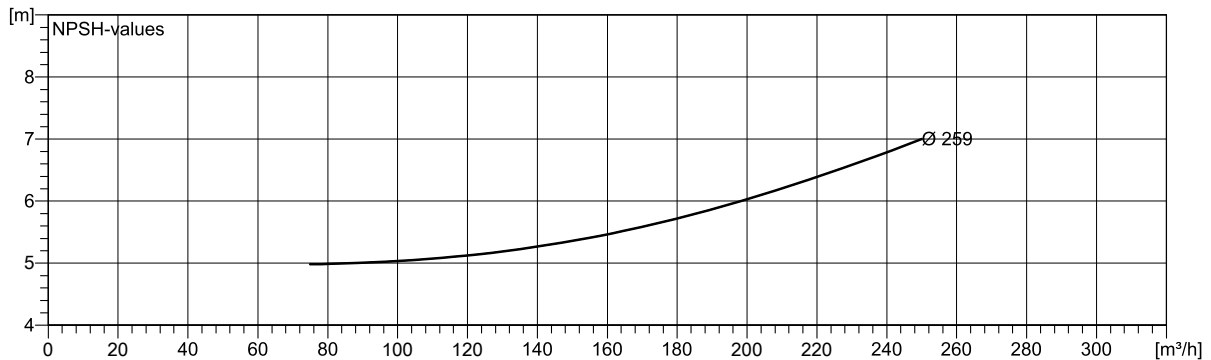
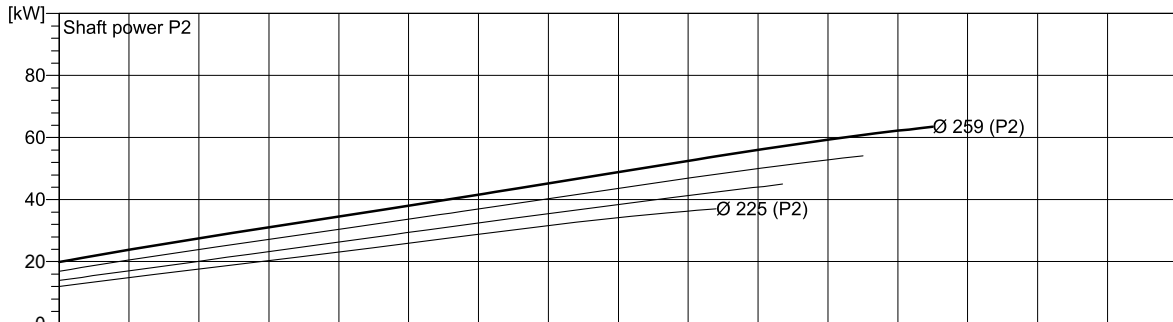
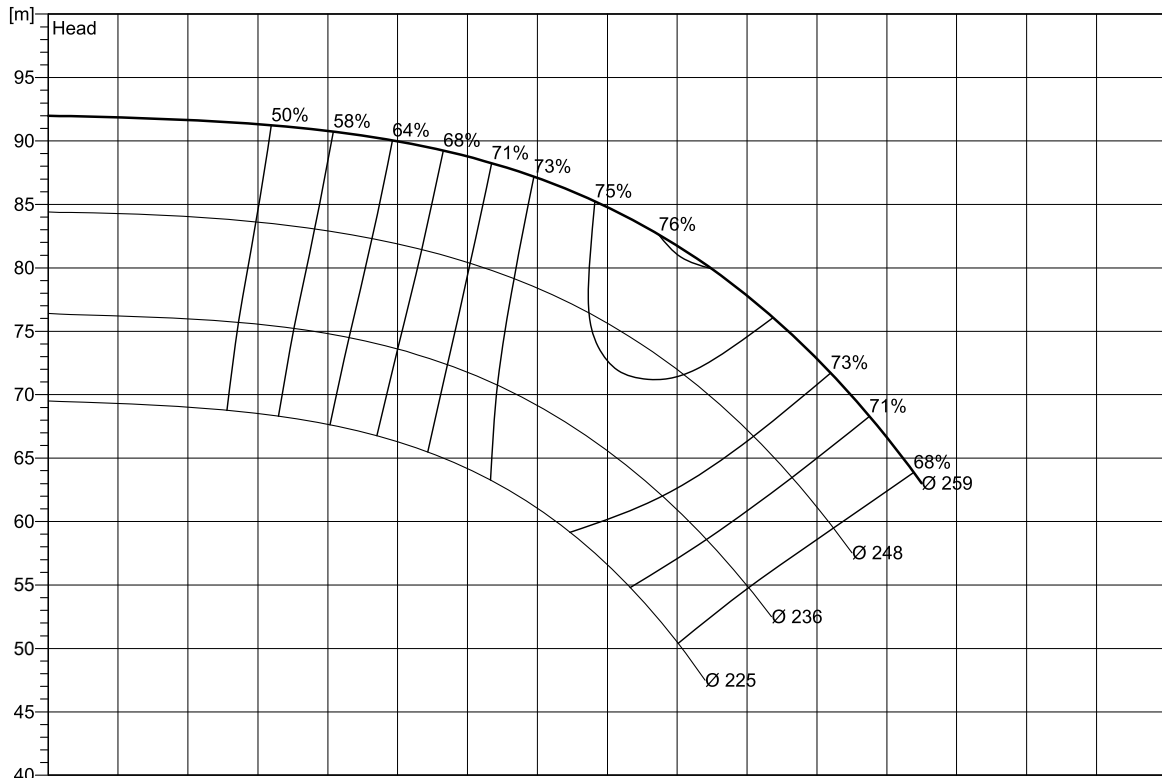
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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

Duty point			
Capacity: m <sup>3</sup> /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



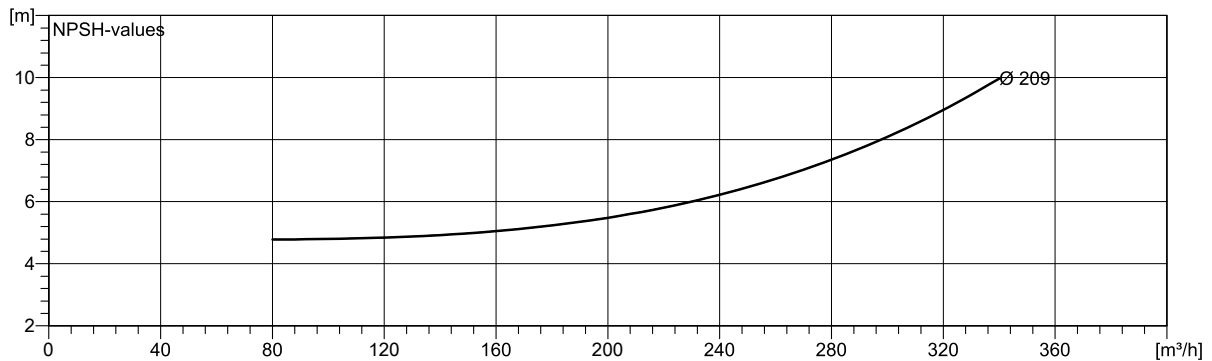
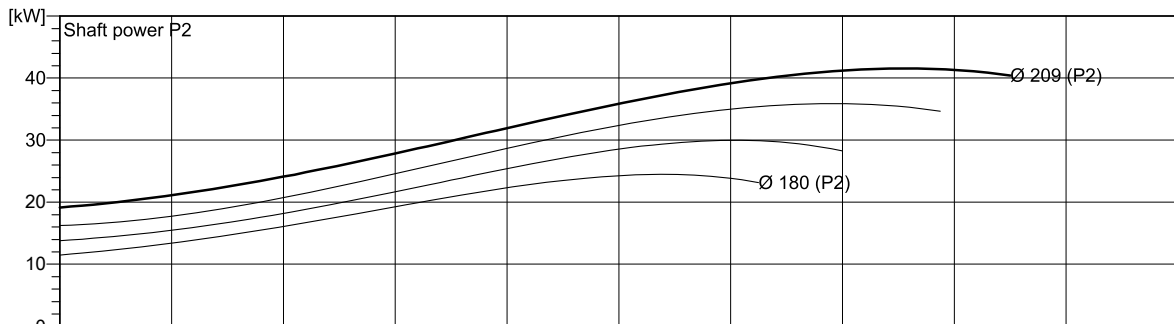
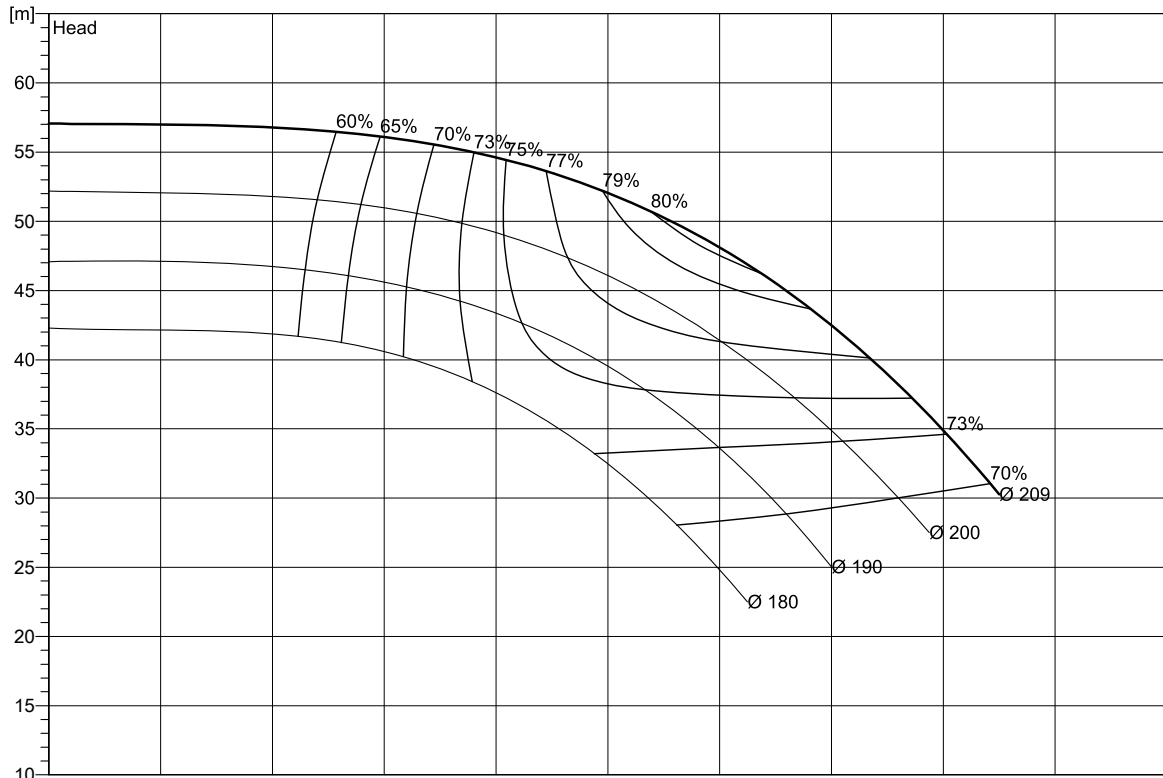
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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 Rathenastraße 2  
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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 125-80-250**  
 Motor: **2900 1/min**

Duty point			
Capacity: m <sup>3</sup> /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



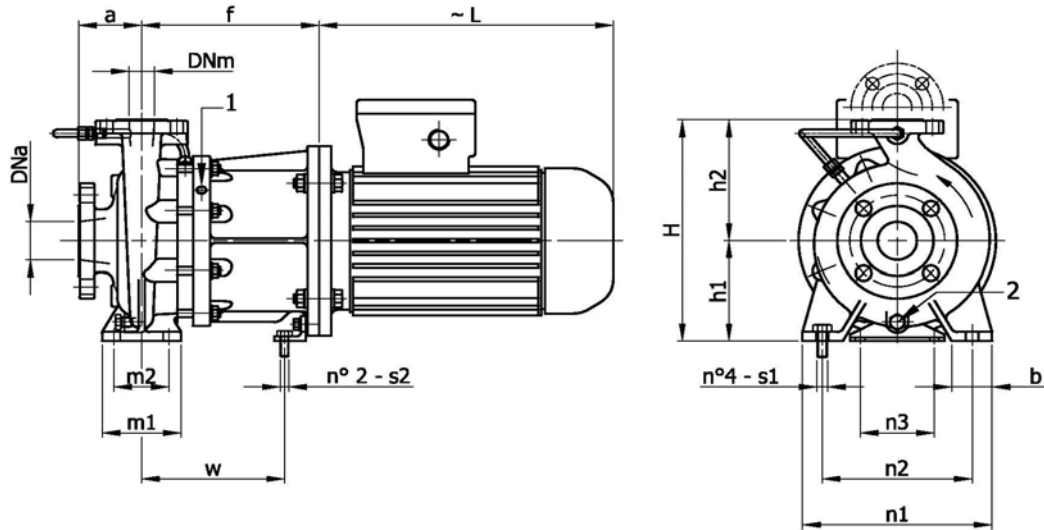
Tolerances : ISO 9906 Gr.2 ( NPSH + 0.5 m )



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Baureihe / Series: **MCA**  
 Typ / Type: **MCA 125-100-200**  
 Motor: **2900 1/min**

ABMESSUNGEN - OVERALL DIMENSIONS - ENCOMBREMENTS

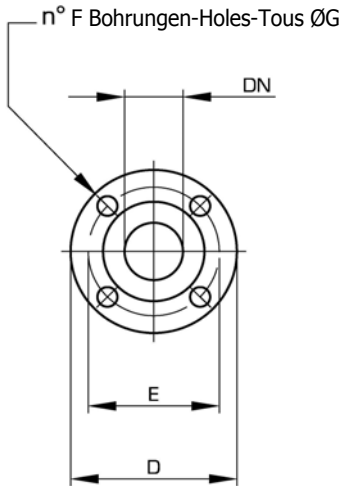


1) 1/4" NPT PT-100 Anschluss - Thermal protection - Protection thermique

2) 1/4" NPT Ablassschraube - Draining - Vidange

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

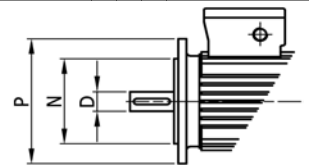
FLANSCH - FLANGES - BRIDES



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	
4"	229	190,5	8 - 19

Motore Motor Moteur I.E.C. 50Hz



Pumpe Typ	DNa	DN	Abmessungen - Dimensions - Dimensions													mcr.	P	N	D	f	w	kW 2P	kW 4P		
			a	b	H	h1	h2	m1	m2	n1	n2	n3	s1	s2											
MCA 32x125	50 (2")	32 (1 1/4")	80	65	340	112	140	100	70	190	140	110	M12	M12	1,5	1,1	200	130	24	215	146	1,5	1,1		
MCA 32x160																								2,2	1,5
MCA 32x200																									
MCA 50x125																								65 (2 1/2")	50 (2")
MCA 50x160	7,5	5,5																							
MCA 40x200			9,2	7,5																					
MCA 65x125	80 (3")	65 (2 1/2")			100	292	132	160	100	70	240	190	110	M12	M12	9,2	7,5	300	230	38	245	193	11		
MCA 65x160			11	/																					
MCA 50x200																								15	/
MCA 80x125			18,5	/																					



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 Rathenaustraße 2  
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 info@march-pumpen.com

Baureihe / Series:

MCA

Typ / Type:

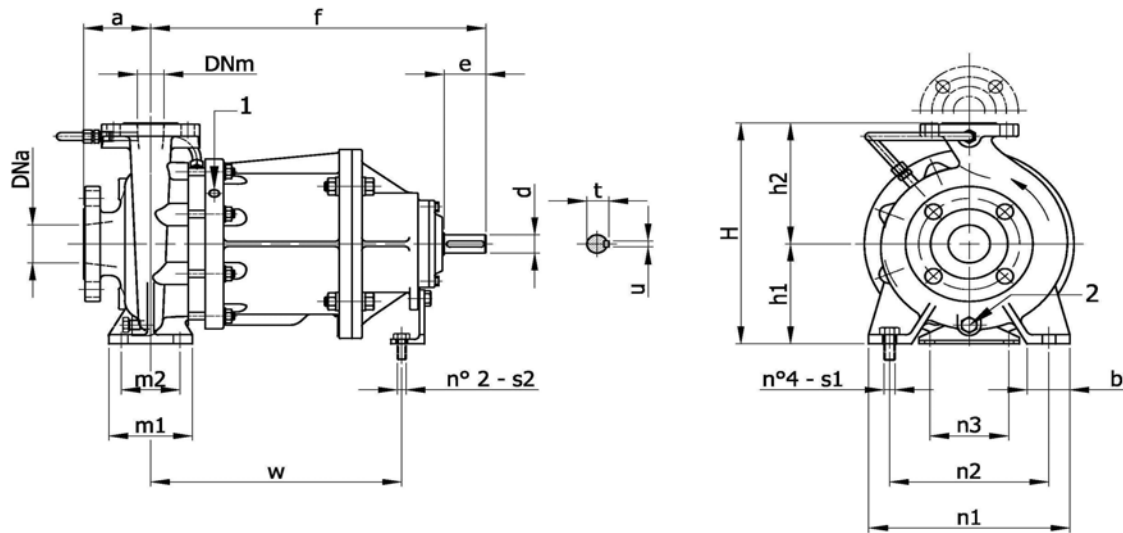
MCA I°Range - Close Coupled

Motor:

IEC 90-160 B5

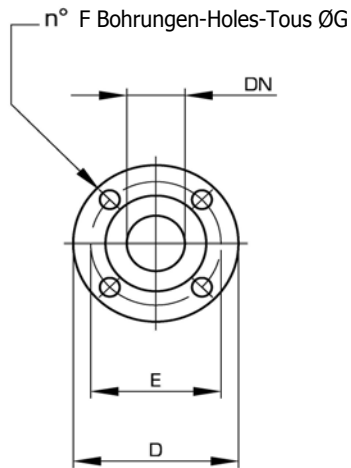
1 2 3 4 5 6

**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	
4"	229	190,5	8 - 19

Pumpe Typ	DNa	DNm	Dimensioni - Dimensions - Dimensions mm																	
			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	50	100	70	240	190	110	M12	M12	385	285	24	50	27	8
MCA 50x160				292	132	160				240	190									
MCA 40x200	80 (3")	40 (1 1/2")	100	340	160	180	50	100	70	265	212	110	M12	M12	385	285	24	50	27	8
MCA 65x125				292	132	160				240	190									
MCA 65x160				340	180	265				212										
MCA 50x200	100 (4")	50 (2")	100	360	160	200	50	100	70	265	212	110	M12	M12	385	285	24	50	27	8
MCA 80x125				340	180	65				125	95									



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Baureihe / Series:

MCA

Typ / Type:

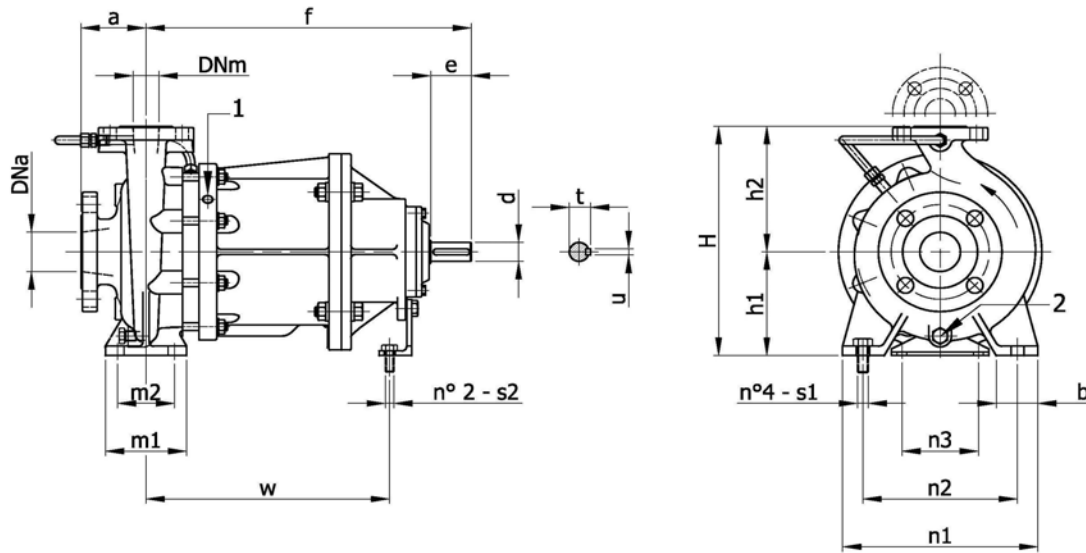
MCA I° Range - Bare Shaft

Motor:

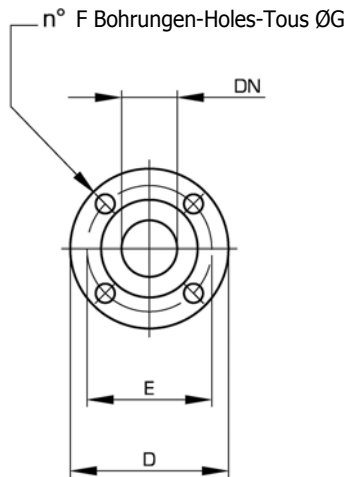
IEC 112-160 B3



**ABMESSUNGEN - OVERALL DIMENSIONS - ENCOMBREMENTS**



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



**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	
4"	229	190,5	8 - 19
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 (1 1/4")	100	405	180	225	65	125	95	320	250	M12											
MCA 40x250	65 (2 1/2")	40 (1 1/2")		360	160	200				280	212												
MCA 50x250	80 (3")	50 (2")	100	405	180	225	80	160	120	320	250	M16	110	M12	500	370	32	80	35	10			
MCA 80x160	100 (4")	80 (3")		450	200	250				225	280												
MCA 65x200		125 (5")	65 (2 1/2")	125	405	180	225	65	125	95	320	250	M12										
MCA 80x160	430				180	250	345				280												
MCA 80x200	100 (4")	80 (3")	125	505	225	280	80	160	120	400	315	M16											
MCA 80x250				480	200	360				360													
MCA 100x200	125 (5")	100 (4")	125	480	200	280	80	160	120	360	360	M16											



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Baureihe / Series:

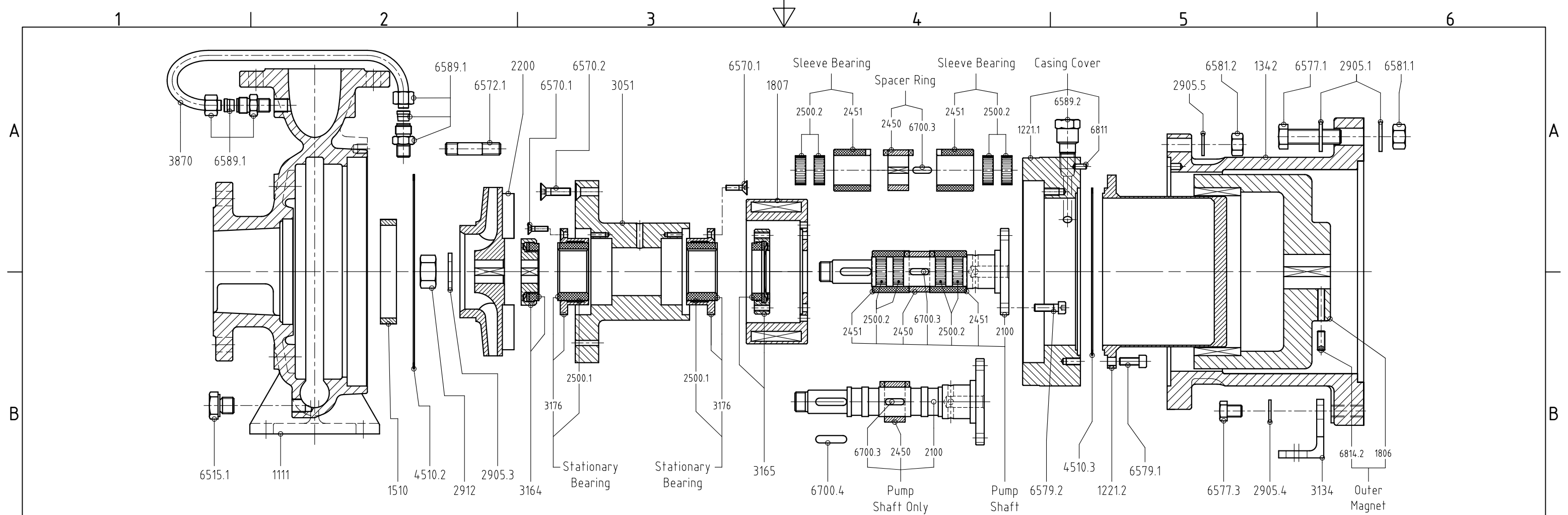
MCA

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 (V-/-)	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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 Rathenaustraße 2  
 D-35394 Gießen  
 www.march-pumpen.com  
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Baureihe / Series:	MCA
Typ / Type:	MCA I° Range
Design:	Close Coupled