



Million Best International Mechanical (Shanghai) Co., Ltd.

No.106 Shang Yu Road, Xinbang Town, Songjiang District, Shanghai,China

Tel:86-21-5789-9277 Fax:86-21-5789-9276

Email: sales@baihongint.com

Website: www.baihongint.com

MMCP Chemical Process Pump

DIN EN 22858 (ISO 2858)



MMCP Centrifugal Chemical Pump

MMCP Chemical Process Pump

Overview:

MMCP are single-stage horizontal centrifugal pumps with conventional mechanical sealing system. Connected to the driving part by means of a spacer coupling (back pull-out version) and installed on a common baseplate, their design is fully compliant with standards DIN 22858 and ISO 2858. The metal armouring applied to components made from thermoplastic resins, such as PP, PPH, PVDF, FEP, PE and PEHD, ensures dimensional stability and mechanical strength. MMCP series pumps can mount various types of single, or double mechanical seals of the top domestic and international brands, which can work with corrosive liquids containing suspended solids and/or crystals. Generously-sized shaft and bearings and semi-open or closed impeller make this series of Hi-Tech pumps ideally suited for the most demanding process services.

These pumps are typically used in all industrial sectors for the transfer of liquids, in particular: corrosive liquids (including acid and alkaline), slurry, liquids containing crystals, dirty liquids, effluents and chemical wastewater. If the medium is hydrofluoric acid or hydrobromic acid, it also can be used.

1) Main Features:

- a) Dimensions comply with DIN EN 22858 (ISO 2858)
- b) Parts in contact with the medium made of solid plastic
- c) Sturdy armour in ductile cast iron
- d) Closed or semi-open impeller with low axial thrust
- e) Corrosion protection of metallic components by multiple coatings of epoxy resin paint
- f) Fast assembly and disassembly
- g) Low noise, steady performance
- h) No leakage

2) Applications:

- a) Petroleum Industry
- b) Chemical Industry
- c) Pharmacy and Health
- d) Environmental and Water treatment
- e) Electroplating industry
- f) Environmental protection
- g) Food service industry
- h) Printing and dyeing area
- i) Textile industry, etc
- j) Pickling plant



3) Technical Parameter:

- a) Flow: 1- 1800m³/h
- b) Head: 1.5-80m
- c) Operating Temperature:FEP(-50 - +180°C),PVDF(-20 - +130°C),PP(0 - +100°C),PE(-40 -+80°C)
- d)Motor: Closed, externally ventilated
- e)Insulation class: B (Class F if required)
- f)Protection class: IP44 / IP54 / IP55(squirrel cage motor)
- g)Duty: Continuously rated

4)Design:

Chemical Norm Pumps

5)Materials:

Parts of the pump in contact with the liquid are manufactured from the following standard plastics:

Polypropylene PP

Temperature range from

0 °C to +100 °C

High Molecular Polyethylene PE

Temperature range from

-50 °C to +80 °C

Polyvinylidene Fluoride PVDF

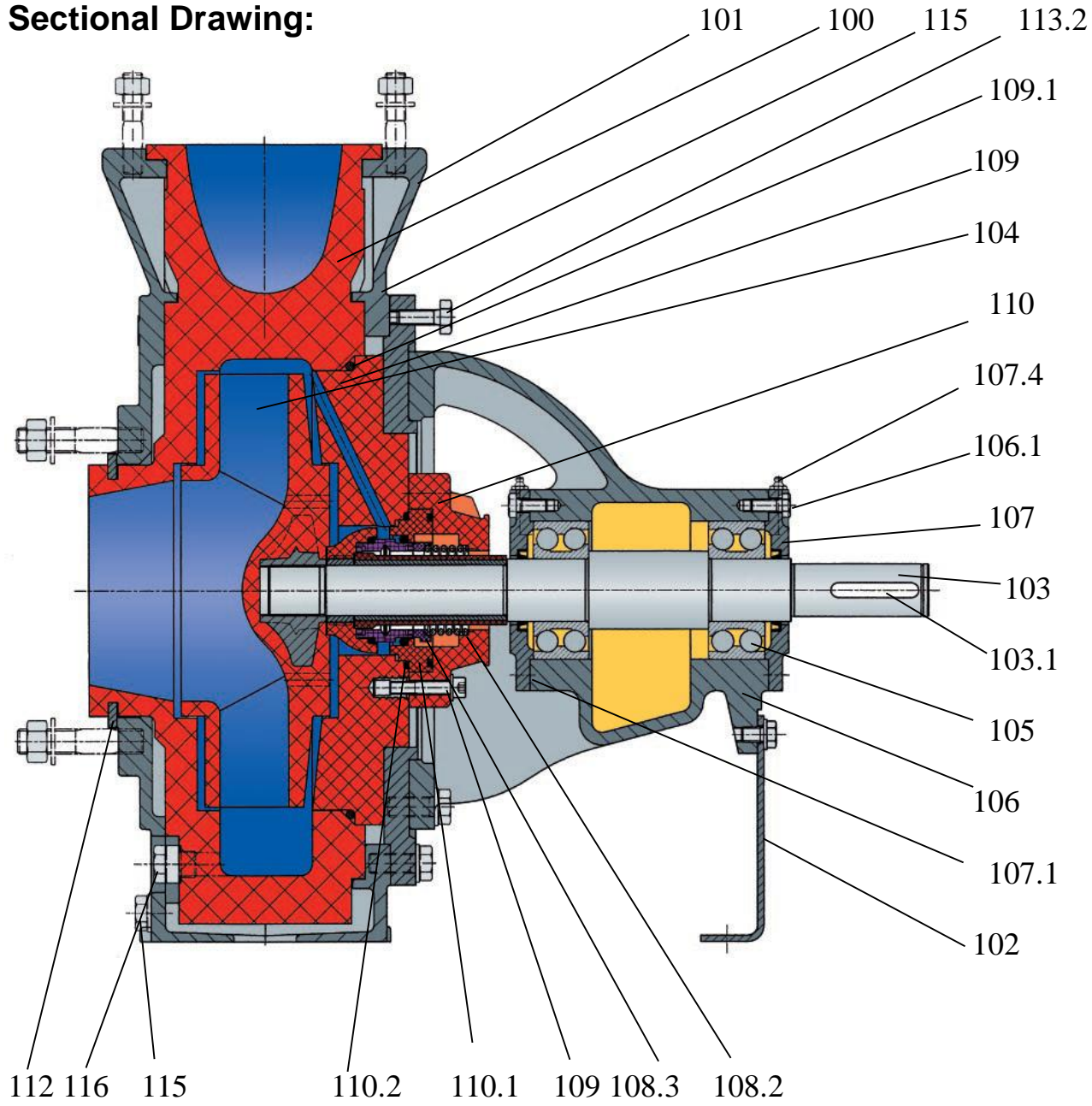
Temperature range from

-20 °C to +130 °C

These materials have been selected as a result of many years of experience in the use of chemical engineering materials, to satisfy the special demands made in pump construction.



Sectional Drawing:



Main Parts List:

Part-No.	Designation
100	Volute Casting
101	Frame Casting
102	Support
103	Shaft
103. 1	Key
104	Impeller
104. 1	Gasket
105	Axial Ball Bearing
106	Bearing Bracket
107	Bearing Cover
107. 1	Gasket
107. 2	Radial Shaft Sealing Ring
107. 3	Distance Wahser
107. 4	Grease Nipple
108	Mechanical Seal
108. 1	Seal Ring
108. 2	Spring
108. 3	Rotating Ring
109	Seal Insert
109. 1	O Ring
109. 2	Wahser
109. 3	Cyl.Screw
110	Mechanical Seal Cover
110. 1	Cover Insert
110. 2	Bearing Cover
112	Retaining Ring
113	Centering Ring
113. 1	Wahser
113. 2	Hexagon Screw
113. 3	Hexagon Nut
114	Shaft Sleeve

115	Sole Plate
115. 1	Washer
115. 2	Hexagon Screw
115. 3	Stud
115. 4	Hexagon Nut
116	Plug
116. 1	Gasket
120	Carrier
120. 1	Gasket

Design Features:

1. Maximum safety during operation through use of solid plastic construction.
2. A sturdy armour in ductile cast iron covering the entire pump casing is to absorb all external forces and torques. It reduces sound emission and provides increased protection from explosion inside the pump and therefore more safety for operational staff.
3. Minimum axial thrust and large axial clearances enable clean and dirty liquids to be handled without increased erosive wear.
4. Back pull-out design allows easy accessibility to all parts for maintenance purposes.
5. Operationally safe shaft sealing by using internal single mechanical seal or single external mechanical seal or double mechanical seal. For extreme applications we use single or double mechanical shaft seals which are giving excellent service in flue gas desulphurization plants
6. Metallic parts, eg., bearing housing, armour etc. protected to "chemical works finish" by using corrosion proof epoxy resin based paint.

MMCP Chemical Process Pump Models:

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP32-25-125	2900	3	23	44	1.1	1.5	2.2	2.0	
		6	20	45				2.0	
		8	17.5	43				2.5	
	1450	1.5	6	42	0.37	0.55	0.75	2.5	
		3	5	40				3.0	
		4	4.2	38				3.0	
MMCP32-25-160	2900	3	34.5	43	1.5	2.2	3	2.5	
		6	32	46				3.0	
		8	30	41				3.0	
	1450	1.5	8.6	39	0.75	1.1	1.5	2.5	
		3	8	41				3.0	
		4	7.5	38				3.0	
MMCP50-32-125	2900	7.5	23	43	2.2	3.0	4.0	2.0	
		12.5	20	51				2.0	
		15	18	49				2.5	
	1450	3.75	5.75	36	0.55	0.55	0.75	2.0	
		6.3	5	45				2.0	
		7.5	4.5	44				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP50-32-125A	2900	6.8	18.8	40	1.5	2.2	3.0	2.0	
		11.3	16.4	50				2.0	
		13.6	14.7	47				2.5	
	1450	3.4	4.7	34	0.55	0.55	0.55	2.5	
		5.7	4.1	43				3.0	
		6.8	3.7	42				3.0	
MMCP50-32-160	2900	7.5	34.5	33	3.0	4.0	5.5	2.5	
		12.5	32	46				3.0	
		15	30	50				3.0	
	1450	3.75	8.6	29	0.55	0.75	1.1	2.5	
		6.3	8	40				3.0	
		7.5	7.5	43				3.0	
MMCP50-32-160A	2900	6.8	28.5	32	3.0	4.0	5.5	2.0	
		11.3	26.4	44				2.0	
		13.6	24.8	47				2.5	
	1450	3.4	7.1	28	0.55	0.75	0.75	2.0	
		5.7	6.6	39				2.0	
		6.8	6.2	42				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP50-32-160B	2900	6.3	24	30	2.2	3.0	4.0	2.0	
		10.5	22	42				2.0	
		12.6	21	45				2.5	
	1450	3.15	6	27	0.55	0.55	0.75	2.5	
		5.25	5.5	38				3.0	
		6.3	5	41				3.0	
MMCP50-32-200	2900	7.5	51.8	28	5.5	7.5	11	2.5	
		12.5	50	39				3.0	
		15	48	43				3.0	
	1450	3.75	12.9	23	1.1	1.1	1.5	2.5	
		6.3	12.5	33				3.0	
		7.5	12	36				3.0	
MMCP50-32-200A	2900	6.8	42.5	27	4.0	5.5	7.5	2.0	
		11.3	41	38				2.0	
		13.6	39.5	42				2.5	
	1450	3.4	10.6	22	0.75	1.1	1.5	2.0	
		5.7	10.3	32				2.0	
		6.8	9.9	35				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP50-32-200B	2900	6.3	37	26	4.0	5.5	7.5	2.0	
		10.5	35.5	37				2.0	
		12.6	34	41				2.5	
	1450	3.15	9.5	21	0.55	0.75	1.1	2.0	
		5.25	9	31				2.0	
		6.3	8.5	34				2.5	
MMCP50-32-250	2900	7.5	82	23	11	15	18.5	2.0	
		12.5	80	33				2.0	
		15	78.5	36.5				2.5	
	1450	3.75	20.5	17	2.2	2.2	3.0	2.0	
		6.3	20	27				2.0	
		7.5	19.6	31				2.5	
MMCP50-32-250A	2900	7.0	72	22	11	15	18.5	2.0	
		11.7	70	32				2.0	
		14	68.5	35.5				2.5	
	1450	3.5	18	16	1.5	2.2	3.0	2.0	
		5.9	17.5	26				2.0	
		7.0	17	30				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP50-32-250B	2900	6.6	63.5	20	7.5	11	15	2.0	
		11	62	30				2.0	
		13	61	34				2.5	
	1450	3.3	15.9	15	1.5	2.2	2.2	2.0	
		5.5	15.5	25				2.0	
		6.5	15.2	29				2.5	
MMCP65-50-125	2900	15	21.3	47	3.0	4.0	5.5	2.0	
		25	20	62				2.0	
		30	18.6	63				2.5	
	1450	7.5	5.4	44	0.55	0.75	0.75	2.0	
		12.5	5.0	55				2.0	
		15	4.5	56				2.5	
MMCP65-50-125A	2900	13.6	17.6	45	2.2	3.0	4.0	2.0	
		22.7	16.5	60				2.0	
		27.3	15.4	61				2.5	
	1450	6.8	4.4	42	0.55	0.55	0.55	2.0	
		11.3	4.1	53				2.0	
		13.6	3.8	54				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP65-50-125B	2900	12	14	44	1.5	2.2	3.0	2.0	
		20	13	59				2.0	
		24	12	60				2.5	
	1450	6.0	3.5	41.5	0.55	0.55	0.55	2.0	
		10	3.2	48.5				2.0	
		12	3.0	48				2.5	
MMCP65-50-160	2900	15	34.2	44	5.5	7.5	11	2.0	
		25	32	57				2.0	
		30	30	59				2.5	
	1450	7.5	8.5	39	0.75	1.1	1.5	2.0	
		12.5	8.0	51				2.0	
		15	7.5	52.5				2.5	
MMCP65-50-160A	2900	13.6	28.4	43	4.0	5.5	7.5	2.0	
		22.7	26.5	56				2.0	
		27.3	24.8	58				2.5	
	1450	6.8	7.1	37	0.55	0.75	1.1	2.0	
		11.3	6.6	49				2.0	
		13.6	6.2	51				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP65-50-160B	2900	12.6	24	42	3.0	4.0	5.5	2.0	
		21	22.5	55				2.0	
		25.2	21	57				2.5	
	1450	6.3	6.0	36	0.55	0.75	1.1	2.0	
		10.5	5.6	48				2.0	
		12.6	5.2	50				2.5	
MMCP65-40-200	2900	15	53.2	41	11	11	15	2.0	
		25	50	52				2.0	
		30	47.6	53.5				2.5	
	1450	7.5	13.3	35	1.5	2.2	2.2	2.0	
		12.5	12.5	46				2.0	
		15	11.9	47.5				2.5	
MMCP65-40-200A	2900	14	46.5	39	7.5	11	15	2.0	
		23.4	44	50				2.0	
		28	42	52				2.5	
	1450	7.0	11.6	34	1.1	1.5	2.2	2.0	
		11.7	11	45				2.0	
		14	10.5	46				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP65-40-200B	2900	12.6	38	38	5.5	7.5	11	2.0	
		21	36	49				2.0	
		25.2	34	51				2.5	
	1450	6.3	9.5	33	0.75	1.1	1.5	2.0	
		10.5	9.0	44				2.0	
		12.6	8.5	45				2.5	
MMCP65-40-250	2900	15	81.2	34	15	22	30	2.0	
		25	80	46				2.0	
		30	78.4	50				2.5	
	1450	7.5	20.3	28	2.2	3.0	4.0	2.0	
		12.5	20	39				2.0	
		15	19.6	43				2.5	
MMCP65-40-250A	2900	14	71	32	15	18.5	30	2.0	
		23.4	70	44				2.0	
		28	68.5	47.5				2.5	
	1450	7.0	17.8	27	2.2	3.0	4.0	2.0	
		11.7	17.5	38				2.0	
		14	17.2	42				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP65-40-250B	2900	13.2	62.8	31	11	15	22	2.0	
		22	61.8	43				2.0	
		26.4	60	47				2.5	
	1450	6.6	15.7	26	1.5	2.2	3.0	2.0	
		11	15.5	37				2.0	
		13.2	14.5	41				2.5	
MMCP65-40-315	1450	7.5	32.4	22	5.5	7.5	11	2.0	
		12.5	32	33				2.0	
		15	31.7	37				2.5	
MMCP65-40-315A	1450	7.0	27.9	21	4.0	5.5	7.5	2.0	
		11.7	27.4	32				2.0	
		14	27.1	36				2.5	
MMCP65-40-315B	1450	6.6	24.5	20	3.0	4.0	5.5	2.0	
		11	24.1	31				2.0	
		13.2	24	35				2.5	
MMCP65-40-315C	1450	6.2	21.3	19	3.0	4.0	5.5	2.0	
		10.3	21	30				2.0	
		12.3	20.8	34				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP80-65-125	2900	30	23.2	60	5.5	7.5	11	2.0	
		50	20	69				2.0	
		60	17.6	67				2.5	
	1450	15	5.8	54	0.75	1.1	1.5	2.0	
		25	5.0	64				2.0	
		30	4.4	62				2.5	
MMCP80-65-125A	2900	27.2	19.1	58	4.0	5.5	7.5	2.0	
		45.3	16.5	67				2.0	
		54.4	14.5	65				2.5	
	1450	13.6	4.8	52	0.55	0.75	1.1	2.0	
		22.6	4.1	62				2.0	
		27.2	3.6	60				2.5	
MMCP80-65-125B	2900	25	16.5	57	3.0	4.0	5.5	2.0	
		42	14.5	66				2.0	
		50	12.5	64				2.5	
	1450	12.5	4.1	51	0.55	0.75	1.1	2.0	
		21	3.6	61				2.0	
		25	3.1	59				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP80-65-160	2900	30	36	57	11	11	15	2.0	
		50	32	67				2.0	
		60	28.4	65				2.5	
	1450	15	9.0	50	1.5	1.5	2.2	2.0	
		25	8.0	62				2.0	
		30	7.2	62				2.5	
MMCP80-65-160A	2900	27.2	29.5	55	7.5	11	15	2.0	
		45.4	26.4	65				2.0	
		54.4	23.4	63				2.5	
	1450	13.6	7.4	48	1.1	1.5	2.2	2.0	
		22.7	6.6	60				2.0	
		27.2	5.9	60				2.5	
MMCP80-65-160B	2900	24.3	24	54	5.5	7.5	11	2.0	
		40.5	215	64				2.0	
		48.6	19	62				2.5	
	1450	12.2	6.0	47	0.75	1.1	1.5	2.0	
		20.3	5.4	59				2.0	
		24.3	4.8	59				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP80-50-200	2900	30	55.2	53	15	18.5	30	2.0	
		50	50	62				2.0	
		60	45.2	62				2.5	
	1450	15	13.5	44	2.2	3.0	4.0	2.0	
		25	12.5	57				2.0	
		30	11.5	58				2.5	
MMCP80-50-200A	2900	27.2	45.4	51	11	15	18.5	2.0	
		45.4	41	61				2.0	
		54.4	37.2	60				2.5	
	1450	13.6	11.1	42	1.5	2.2	3.0	2.0	
		22.7	10.3	55				2.0	
		27.2	9.5	56				2.5	
MMCP80-50-200B	2900	24.3	36	50	7.5	11	15	2.0	
		40.5	32.5	60				2.0	
		48.6	29	59				2.5	
	1450	12.2	9.0	41	1.1	1.5	2.2	2.0	
		20.3	8.1	54				2.0	
		24.3	7.3	55				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP80-50-250	2900	30	83.5	46	30	37	45	2.0	
		50	80	59				2.0	
		60	76	60				2.5	
	1450	15	21	43	4.0	5.5	7.5	2.0	
		25	20	52				2.0	
		30	19	54				2.5	
MMCP80-50-250A	2900	28.1	73.6	43	22	30	37	2.0	
		46.9	70.5	56				2.0	
		56.3	67.4	58				2.5	
	1450	14	18.4	42	3.0	4.0	5.5	2.0	
		23.4	17.6	50				2.0	
		28.2	16.9	49				2.5	
MMCP80-50-250B	2900	26.4	64.8	41	18.5	30	37	2.0	
		44	62.2	54				2.0	
		52.8	60	57				2.5	
	1450	13.2	16.2	41	3.0	4.0	5.5	2.0	
		22	15.6	48				2.0	
		26.4	15	47				2.5	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP80-50-315	1450	15	32.5	38	7.5	7.5	11	2.0	
		25	32	48				2.0	
		30	31.5	52				2.5	
MMCP80-50-315A	1450	14	28.5	36	5.5	7.5	11	2.0	
		23.4	28	46				2.0	
		28.2	27.5	50				2.5	
MMCP80-50-315B	1450	13.2	25	35	4.0	5.5	7.5	2.0	
		22	24.5	45				2.0	
		26.4	24	49				2.5	
MMCP80-50-315C	1450	11.7	20	34	3.0	4.0	5.5	2.0	
		19.5	19.5	44.5				2.0	
		23.4	19	48				2.5	
MMCP100-80-125	2900	60	24.7	65	11	15	18.5	3.0	
		100	20	73				4.5	
		120	16.1	69				5.5	
	1450	30	6.18	60	1.5	2.2	3.0	3.0	
		50	5.0	68				3.5	
		60	4.03	62				3.8	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP100-80-125A	2900	55.1	20.7	62	7.5	11	15	3.0	
		91.8	16.8	70				4.5	
		110.2	13.4	66				5.5	
	1450	27.5	5.18	58	1.1	1.5	2.2	3.0	
		45.9	4.2	66				3.5	
		55	3.35	60				3.8	
MMCP100-80-160	2900	60	37	60	15	22	30	3.8	
		100	32	73				4.3	
		120	28	73				5.0	
	1450	30	9.25	58	2.2	3.0	4.0	3.0	
		50	8.0	69				3.4	
		60	7.0	68				3.7	
MMCP100-80-160A	2900	60	37	60	15	22	30	3.8	
		100	32	73				4.3	
		120	28	73				5.0	
	1450	30	9.25	58	2.2	3.0	4.0	3.0	
		50	8.0	69				3.4	
		60	7.0	68				3.7	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP100-80-160B	2900	47	22.5	56	7.5	11	15	3.0	
		78.5	19.5	69				4.5	
		94	17	69				5.5	
	1450	23.5	5.6	55	1.1	1.5	2.2	3.0	
		39.3	4.9	66				3.5	
		47	4.3	65				3.8	
MMCP100-65-200	2900	60	56	63	30	37	45	3.8	
		100	50	72				4.3	
		120	44	71				5.0	
	1450	30	14	60	3.0	4.0	5.5	3.0	
		50	12.5	68				3.4	
		60	11	63				3.7	
MMCP100-65-200A	2900	54.6	46.5	61	18.5	30	37	3.8	
		91	41.5	70				4.3	
		109	36.5	69				5.0	
	1450	27.3	11.6	58	3.0	4.0	5.5	3.0	
		45.5	10.4	66				3.4	
		54.5	9.1	61				3.7	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP100-65-200B	2900	52	38	60	15	22	30	3.1	
		86.5	35	69				3.8	
		104	30	68				5.1	
	1450	26	9.5	57	2.2	3.0	4.0	2.4	
		43.2	8.8	65				2.4	
		52	7.5	60				2.9	
MMCP100-65-250	2900	60	88	57	45	55	75	3.1	
		100	80	68				3.8	
		120	74	67				5.1	
	1450	30	22	50	5.5	7.5	11	2.4	
		50	20	63				2.4	
		60	18.5	64				2.9	
MMCP100-65-250A	2900	56	77	54	37	45	75	3.1	
		93.5	70	65				3.8	
		112	64.5	64				5.1	
	1450	28	19.2	48	5.5	7.5	11	2.4	
		46.8	17.5	61				2.4	
		56	16.1	62				2.9	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP100-65-250B	2900	52.7	67.9	52	30	45	55	3.1	
		87.8	61.7	63				3.8	
		105.4	57	62				5.1	
	1450	26.4	17	47	4.0	5.5	7.5	2.4	
		43.9	15.4	60				2.4	
		52.7	14.3	61				2.9	
MMCP100-65-315	1450	30	33.5	44	11	15	18.5	3.1	
		50	32	58				3.8	
		60	30.5	60				5.1	
MMCP100-65-315A	1450	28	29	42	11	11	15	2.4	
		46.8	28	56				2.4	
		56	26.5	58				2.9	
MMCP100-65-315B	1450	26.4	25.5	41	7.5	11	15	3.1	
		43.9	24.3	55				3.8	
		52.7	23	57				5.1	
MMCP100-65-315C	1450	24.9	22.7	40	5.5	7.5	11	2.4	
		41.5	21.5	54				2.4	
		49.8	20.5	56				2.9	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP125-80-200	2900	120	61	68	45	55	90	4.5	
		200	50	77				5.0	
		240	41	70				5.8	
	1450	60	15.2	64	7.5	11	15	2.5	
		100	12.5	73				2.9	
		120	10.2	66				3.6	
MMCP125-80-200A	2900	110	50.5	66	37	45	75	4.5	
		182	41.4	75				5.0	
		218	34	68				5.8	
	1450	55	12.6	62	5.5	7.5	11	2.5	
		91	10.4	71				2.9	
		109	8.5	64				3.6	
MMCP125-80-200B	2900	99.6	41.5	65	30	37	55	4.5	
		166	34	74				5.0	
		199	28	67				5.8	
	1450	49.8	10.5	61	4.0	5.5	7.5	2.5	
		83	8.5	70				2.9	
		99.5	7.0	63				3.6	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ²)				
					1.0	1.35	1.85		
MMCP125-80-250	2900	120	90	62	75	110	132	4.5	
		200	80	75				5.0	
		240	73	74				5.8	
	1450	60	22.5	59	11	15	18.5	2.5	
		100	20	72				2.9	
		120	18.2	71				3.6	
MMCP125-80-250A	2900	112	78	60	75	90	110	4.5	
		186.5	69.5	73				5.0	
		224	63.5	72				5.8	
	1450	56	19.5	57	11	11	15	2.5	
		93.5	17.5	70				2.9	
		112	16	69				3.6	
MMCP125-80-250B	2900	105	29	58	55	75	110	4.5	
		175.5	48	71				5.0	
		211	58	70				5.8	
	1450	52	15	55	7.5	11	15	2.5	
		87	24	68				2.9	
		105	29	67				3.6	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP125-80-250C	2900	95.4	57	56	45	55	75	4.5	
		159	50.5	69				5.0	
		190	46	68				5.8	
	1450	47.7	14	53	5.5	7.5	11	2.5	
		79	12.6	66				2.9	
		95	11.5	65				3.6	
MMCP125-80-315	1450	60	33.5	53	18.5	22	30	2.5	
		100	32	65				2.9	
		120	30.5	66				3.6	
MMCP125-80-315A	1450	56	29.5	54	15	18.5	30	2.5	
		93	27.5	64				2.9	
		112	26.5	65				3.6	
MMCP125-80-315B	1450	52	25	53	15	18.5	22	2.5	
		88	24	63				2.9	
		105	23	64				3.6	
MMCP125-80-315C	1450	49	22.5	52	11	15	18.5	2.5	
		82	21.5	62				2.9	
		98	20.5	63				3.6	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP125-80-400	1450	60	52	48	30	45	55	2.5	
		100	50	55				2.9	
		120	48.5	62				3.6	
MMCP125-80-400A	1450	56	45	46	30	37	45	2.5	
		93	43	52				2.9	
		112	41	60				3.6	
MMCP125-80-400B	1450	52	40	45	22	30	45	2.5	
		87	38.5	51				2.9	
		105	37	58				3.6	
MMCP125-80-400C	1450	48	34.5	43	18.5	30	37	2.5	
		81	33.2	50				2.9	
		97	32.2	56				3.6	
MMCP150-125-250	1450	120	24.8	66	18.5	30	37	2.5	
		200	20	77				2.9	
		240	15	68				3.6	
MMCP150-125-250A	1450	109	20.5	64	15	18.5	30	2.5	
		182	16.5	75				2.9	
		218	12.5	66				3.6	

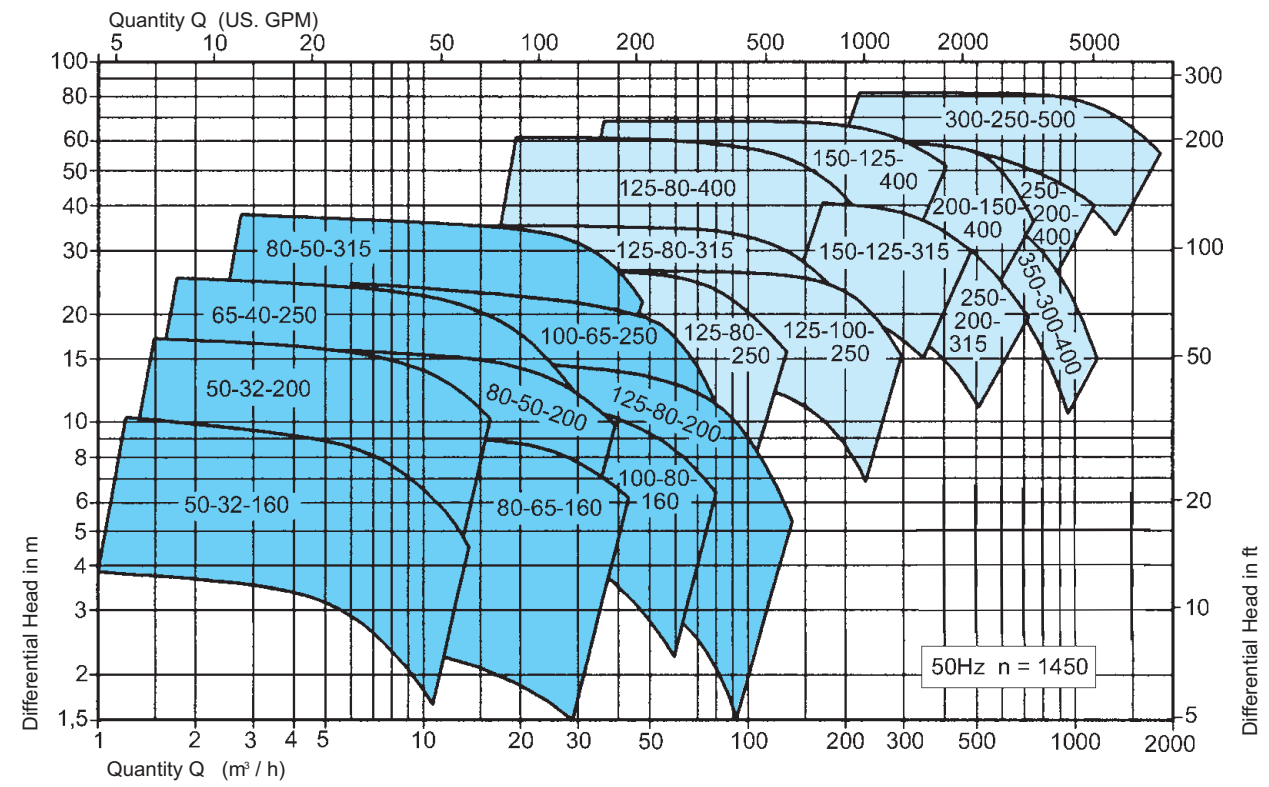
Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP150-125-250B	1450	102	17.9	62	11	15	22	2.5	
		170	14.5	73				2.9	
		204	10.8	64				3.6	
MMCP150-125-315	1450	120	36.3	63	30	37	55	2.5	
		200	32	75				2.9	
		240	28.6	72				3.6	
MMCP150-125-315A	1450	109	30	60	22	30	45	2.5	
		182	25.5	73				2.9	
		218	23.5	69				3.6	
MMCP150-125-315B	1450	102	26.2	58	18.5	30	37	2.5	
		170	23.1	71				2.9	
		204	20.6	66				3.6	
MMCP150-125-400	1450	120	57	61	55	75	90	2.5	
		200	50	70				2.9	
		240	44	63				3.6	
MMCP150-125-400A	1450	109	47	58	37	55	75	2.5	
		182	41	68				2.9	
		218	36	60				3.6	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP150-125-400B	1450	102	41.5	55	37	45	75	2.5	
		170	36	66				2.9	
		204	31.8	58				3.6	
MMCP150-125-400C	1450	96	37	53	30	37	55	2.5	
		160	32	64				2.9	
		192	28	56				3.6	
MMCP200-150-250	1450	240	23	63	37	55	75	2.5	
		400	20	75				2.9	
		460	18	74				3.6	
MMCP200-150-250A	1450	218	19	64	30	37	55	2.5	
		263	16	76				2.9	
		418	15	73				3.6	
MMCP200-150-250B	1450	204	16	62	22	30	45	2.5	
		340	15	74				2.9	
		390	13	71				3.6	
MMCP200-150-315	1450	240	35.6	67	55	75	110	2.5	
		400	32	73				2.9	
		460	29.4	77				3.6	

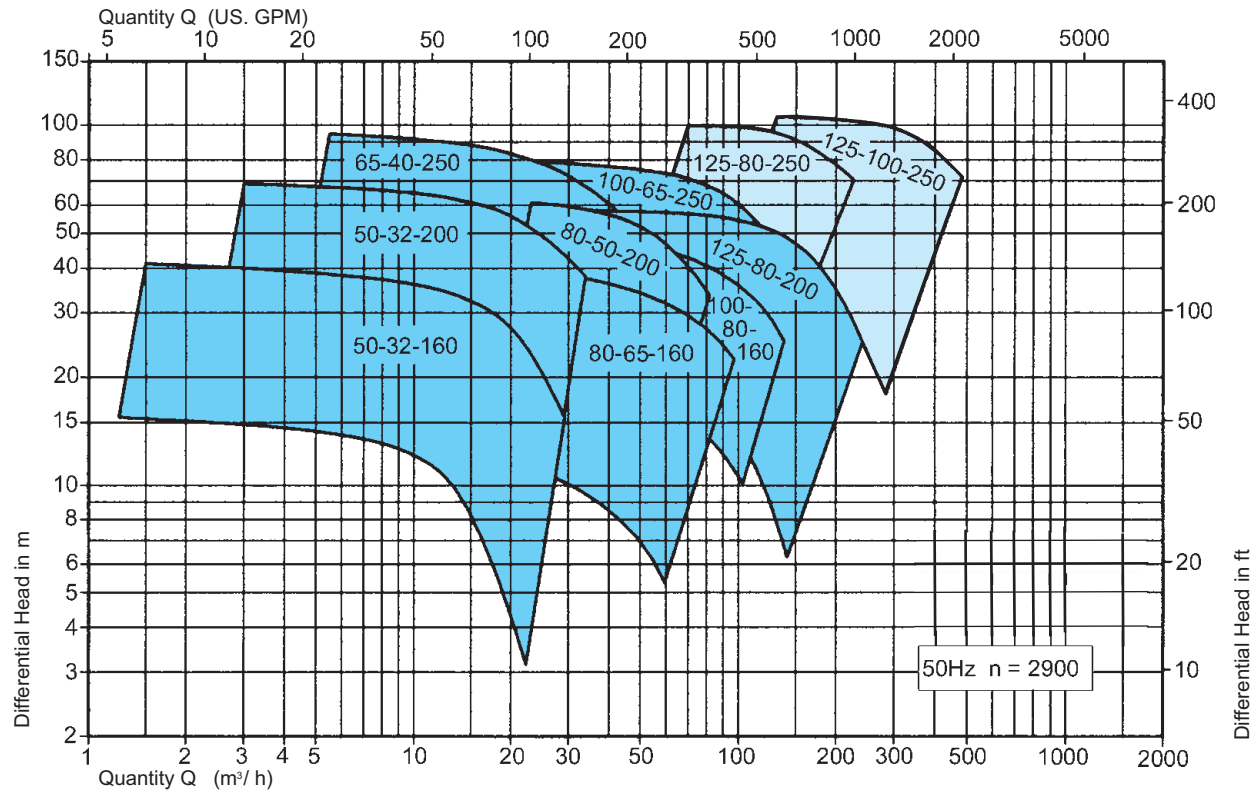
Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP200-150-315A	1450	218	29	64	45	55	75	2.5	
		363	25	77				2.9	
		418	24	74				3.6	
MMCP200-150-315B	1450	204	25.7	61	37	55	75	2.5	
		340	23.1	74				2.9	
		390	21.2	71				3.6	
MMCP200-150-400	1450	240	55.8	67	90	132	160	2.5	
		400	50	78				2.9	
		460	47	75				3.6	
MMCP200-150-400A	1450	218	46	64	5	90	132	2.5	
		363	41	76				2.9	
		418	39	72				3.6	
MMCP200-150-400B	1450	204	40.3	61	55	75	110	2.5	
		340	38	74				2.9	
		390	34	69				3.6	
MMCP200-150-400C	1450	192	35.7	59	55	75	90	2.5	
		320	32	72				2.9	
		360	30	64				3.6	

Model	Speed (r/min)	Flowrate (m ³ /h)	Head (m)	Efficiency (%)	Motor Power (kw)			NPSHr (m)	Weight (kg)
					Medium Density (g/cm ³)				
					1.0	1.35	1.85		
MMCP250-200-315	1450	600	16	64	55	75	90	2.5	
		550	20	77				2.9	
		500	24	74				3.6	
MMCP250-200-400	1450	600	32	61	75	90	110	2.5	
		550	40	74				2.9	
		500	43	71				3.6	
MMCP300-250-315	1450	900	15	67	75	90	110	2.5	
		800	20	78				2.9	
		650	26	75				3.6	
MMCP300-250-400	1450	900	24	64	90	110	160	2.5	
		800	30	76				2.9	
		650	38	72				3.6	
MMCP350-300-400	1450	1400	20	61	110	160	200	2.5	
		1300	25	74				2.9	
		1200	28	69				3.6	
MMCP350-300-500	1450	1400	38	59	132	160	200	2.5	
		1300	45	72				2.9	
		1200	48	64				3.6	

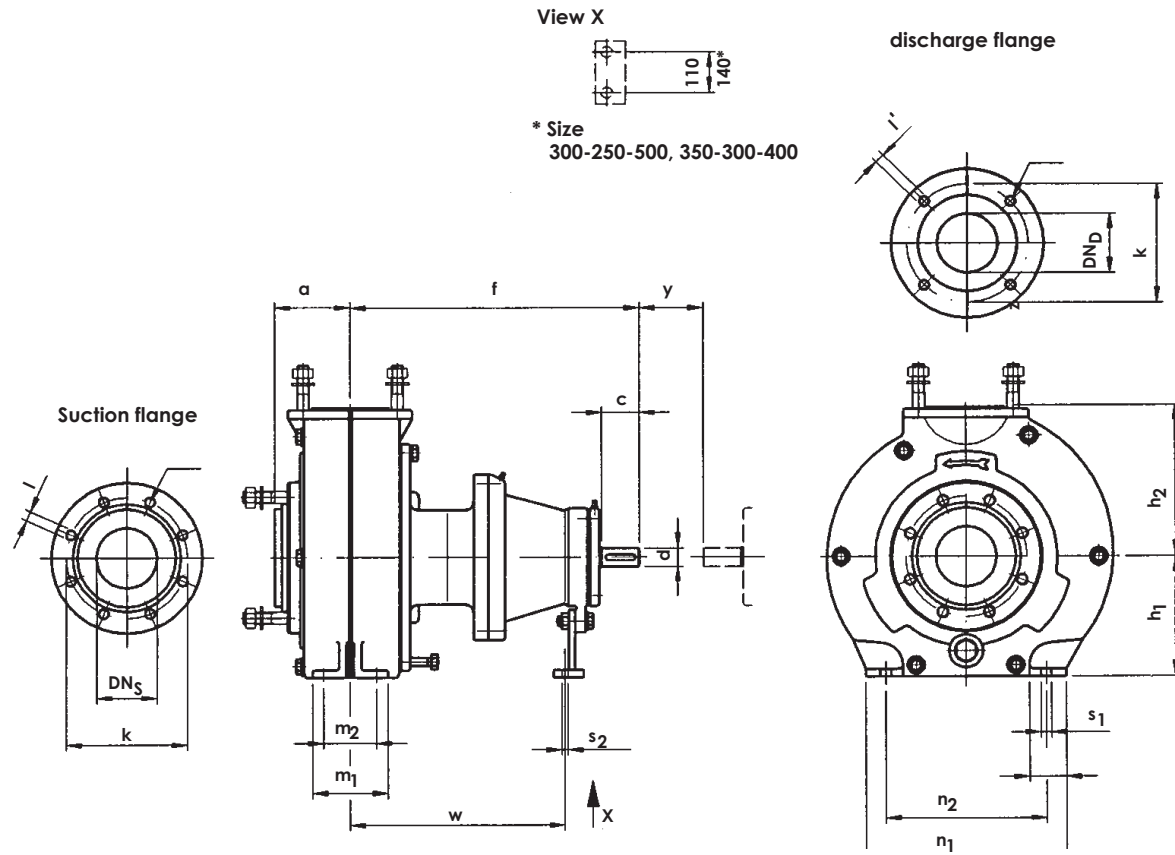
■ General Curve Performance



■ General Curve Performance



■ Dimension Drawing



■ Installation Dimension

Size	BB 1)	Pump Dimensions				Foot Dimensions										Shaft End DIN 748 2)		Flange Dimensions							
		a	f	h ₁	h ₂	b	m ₁	m ₂	n ₁	n ₂	s ₁	s ₂	w	y	d	c	Discharge Flange				Suction Flange				
																	DN _D	k	l	z	DN _S	k	l	z	
50-32-160	I	80	385	132	160	50	100	70	240	190	M 12	M 12	285	100	24	50	32	100	M 16	4	50	125	M 16	4	
50-32-200	I	80	385	160	180	50	100	70	240	190	M 12	M 12	285	100	24	50	32	100	M 16	4	50	125	M 16	4	
80-65-160	I	100	385	160	180	50	100	70	265	212	M 12	M 12	285	100	24	50	65	145	M 16	4	80	160	M 16	8	
80-50-200	I	100	385	160	200	50	100	70	265	212	M 12	M 12	285	100	24	50	50	125	M 16	4	80	160	M 16	8	
65-40-250	II	100	500	180	225	65	125	95	320	250	M 12	M 12	370	100	32	80	40	110	M 16	4	65	145	M 16	4	
80-50-315	II	125	500	225	280	65	125	95	345	280	M 12	M 12	370	100	32	80	50	125	M 16	4	80	160	M 16	8	
100-80-160	II	100	500	160	200	65	125	95	280	212	M 12	M 12	370	100	32	80	80	160	M 16	8	100	180	M 16	8	
100-65-250	II	125	500	200	250	80	160	120	360	280	M 16	M 12	370	140	32	80	65	145	M 16	4	100	180	M 16	8	
125-80-200	II	125	500	180	250	65	125	95	345	280	M 12	M 12	370	140	32	80	80	160	M 16	8	125	210	M 16	8	
125-80-250	II	125	500	225	280	80	160	120	400	315	M 16	M 12	370	140	32	80	80	160	M 16	8	125	210	M 16	8	
125-80-315	III	125	530	250	315	80	160	120	400	315	M 16	M 12	370	140	42	110	80	160	M 16	8	125	210	M 16	8	
125-80-400	III	125	530	280	355	80	160	120	435	355	M 16	M 12	370	140	42	110	80	160	M 16	8	125	210	M 16	8	
125-100-250	III	140	530	225	280	80	160	120	400	315	M 16	M 12	370	140	42	110	100	180	M 16	8	125	210	M 16	8	
150-125-315	III	140	530	280	355	100	200	150	500	400	M 20	M 12	370	140	42	110	125	210	M 16	8	150	240	M 20	8	
150-125-400	III	140	530	315	400	100	200	150	500	400	M 20	M 12	370	140	42	110	125	210	M 16	8	150	240	M 20	8	
200-150-400	IV	160	670	315	450	100	200	150	550	450	M 20	M 12	500	180	48	110	150	240	M 20	8	200	295	M 20	12	
250-200-315	IV	180	670	355	450	100	200	150	550	450	M 20	M 12	500	180	48	110	200	295	M 20	12	250	355	M 24	12	
250-200-400	IV	180	670	355	500	100	200	150	550	450	M 20	M 12	500	180	48	110	200	295	M 20	12	250	355	M 24	12	
300-250-500	VI	250	900	475	670	130	260	190	800	670	M 24	M 16	680	250	75	150	250	355	M 24	12	300	410	M 24	12	
350-300-400	VI	300	900	500	670	180	360	250	900	750	M 24	M 16	680	250	75	150	300	410	M 24	12	350	470	M 24	16	

Fully armoured design available up to
pump size 150-125-400
Dimensions subject to change without notice
1) BB = Bearing bracket
2) Keyway and ke to DIN 6885