

# MDPA/MDPE, MDP, MDPQ, CQG, CQF4, CQ-Z, CQ

## Технические характеристики

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## SS2507/SS2205 Duplex Stainless Magnetic Coupling Pump Chemical Magdrive Pumps

The MDPA Magnetic Drive Oil Chemical Process Pump is the new type of pump that developed by Tengyu that has the domestic leading level. Compared with mechanically sealed ZA/ZE oil chemical process pump<sub>2</sub> MDPA pump has many incomparable advantages and provides a better choice for leak-free occasions in chemical process.

### Product Description

The MDPA adopts integrated planning design, the high level of generalization and serialization leads to easy interchangeability of

parts. The hydraulic components are designed according to the excellent hydraulic model in Europe. The new structure curve has no hump and the performance is stable. MDPA has very good cavitation resistance and greatly improved efficiency compared to other similar products on market. The MDPA pump is designed according to API610/API685 and other standards, it has unique advantages in petrochemical industry with high reliability and easy maintenance.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

## MATERIAL SELECTION

根据输送介质、使用工况及用户要求可选用：CS、1Cr13、0Cr18Ni9(304)、0Cr18Ni12Mo2Ti(316)、钛合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be chosen according different medium and work condition.

## PERFORMANCE RANGE

口径: DN25 ~ DN200mm

流量: 4 ~ 300m<sup>3</sup>/h

扬程: < 194m

转速: 2900r/min; 1450r/min

工作温度: < 175°C(MDPA); ≥ 35°C(TC(MDPE))

粘度: < 100mm<sup>2</sup>/s

压力: ≥ 2.5Mpa(MDPA); ≥ 5.0Mpa(MDPE)

电机功率: 1.1 ~ 160kW

Caliber: DN25-DN200mm

Capacity: 4 ~ 300m<sup>3</sup>/h

Head: < 194m

Rotate speed: 2900r/min; 1450r/min

Work temperature: < 175°C(MDPA); ≥ 35°C(MDPE)

Viscosity: < 100mm<sup>2</sup>/s

Pressure: ≥ 2.5Mpa(MDPA); < 5.0Mpa(MDPE)

Motor power: 1.1 ~ 1

## PERFORMANCE PARAMETER

型号 Model	叶轮 型式 Impeller	额定转速 Rating rotate speed n=2900r/min							额定转速 Rating rotate speed n=1450r/min								
		流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84	流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84
		Capacity m <sup>3</sup> /h	Head m	kW	型号 Model	配套电机功率及型号 Motor power and model	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model
40-25-200	A	11.5	49	7.5	132S2-2	J1	15	160M2-2	5.8	12	1.1	90S-4	1.1	90S-4	1.5	90L-4	
	B	10.5	42	5.5	132S1-2	75	132S2-2	11	160M1-2	5.4	11	1.1	90S-4	1.1	90S-4	1.5	90L-4
	C	9	36	4	112M-2		132S1-2	7.5	132S2-2	4.6	8.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
	D	7.5	28	3	100L-2	4	112M-2	5.5	132S1-2	4	6.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
50-25-250	A	11.5	80	15	160M2-2	18.5	160L-2	30	300L1-2	8	17	3	100L2-4	4	112M-4	5.5	132S-4
	B	9.5	67	15	160M2-2	18.5	160L-2	22	180M-2	7	16.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	8.8	50	11	160M1-2	15	160M2-2	18.5	160L-2	6.5	12	3	100L2-4	4	112M-4	5.5	132S-4
	D	8.5	30	7.5	132S2-2	11	160M1-2	15	160M2-2	6	6.5	2.2	100L1-4	3	100L2-4	4	112M-4
50-25-315	A	21	128	45	225M-2	55	250M-2	75	280S-2	9.6	32	7.5	132M-4	11	160M-4	15	160L-4
	B	18	115	37	200L2-2	55	250M-2	75	280S-2	8.5	30	5.5	132S-4	11	160M-4	15	160L-4
	C	16	100	37	200L2-2	45	225M-2	55	250M-2	7.5	25	5.5	132S-4	7.5	132M-4	11	160M-4
	D	14	90	30	300L1-2	45	225M-2	55	250M-2	7	22	5.5	132S-4	7.5	132M-4	11	160M-4
80-40-160	A	28	33	7.5	132S2-2	11	160M1-2	15	160M2-2	14	8	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	B	25.5	29	7.5	132S2-2	11	160M1-2	15	160M2-2	13	7	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	C	22	22	5.5	132S1-2	7.5	132S2-2	11	160M1-2	11	5.5	1.1	90S-4	1.1	90S-4	1.5	90L-4
	D	20	16	4	112M-2	4	112M-2	7.5	132S2-2	9.5	4.5	1.1	90S-4	1.1	90S-4	1.1	90S-4



(续)

型号 Model	叶型	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35		比重 S.G.r=1.84		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35		比重 S.G.r=1.84			
		Head	配套电机功率及型号 Motor power and model							Capacity	Head	配套电机功率及型号 Motor power and model					
	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	
80-40-200	A	29	53	15	160M2-2	18.5	160L-2	22	180M-2	14.5	13	2.2	100L1-4	2.2	100L1-4	4	112M-4
	B	26	47	11	160M1-2	15	160M2-2	22	180M-2	13	11.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	22	39	11	160M1-2	11	160M1-2	15	160M2-2	11.5	9	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	18	20	7.5	132S2-2	11	160M1-2	15	160M2-2	9.5	7	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-40-250	A	32	78	22	180M-2	30	300L1-2	37	200L2-2	16	19.5	3	100L2-4	4	112M-4	5.5	132S-4
	B	30	72	22	180M-2	30	300L1-2	37	200L2-2	15	18	3	100L2-4	4	112M-4	5.5	132S-4
	C	24	60	15	160M2-2	18.5	160L-2	30	300L1-2	12.5	14	2.2	100L1-4	3	100L2-4	4	112M-4
	D	21	47	11	160M1-2	15	160M2-2	18.5	160L-2	10.5	11	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-40-315	A	42	115	45	225M-2	75	280S-2	90	280M-2	21	29	7.5	132M-4	11	160M-4	15	160L-4
	B	40	107	45	225M-2	55	250M-2	75	280S-2	20	26.5	7.5	132M-4	11	160M-4	15	160L-4
	C	34	81	30	300L1-2	45	225M-2	55	250M-2	17.5	20	5.5	132S-4	7.5	132M-4	11	160M-4
	D	29	61	22	180M-2	30	300L1-2	37	200L2-2	15	15	4	112M-4	5.5	132S-4	7.5	132M-4
80-40-400	A	42.5	156	75	280S-2	90	280M-2	132	315M-2	21	39	11	160M-4	15	160L-4	18.5	180M-4
	B	42	126	55	250M-2	75	280S-2	110	315S-2	20	32	11	160M-4	11	160M-4	15	160L-4
	C	40	110	55	250M-2	75	280S-2	90	280M-2	19	28	7.5	132M-4	11	160M-4	15	160L-4
	D	37.5	82	37	200L2-2	55	250M-2	75	280S-2	18	20.5	5.5	132S-4	7.5	132M-4	11	160M-4
80-50-160	A	50	34	15	160M2-2	18.5	160L-2	22	180M-2	25	8.4	1.5	90L-4	2.2	100L1-4	3	100L2-4
	B	45	29	11	160M1-2	15	160M2-2	18.5	160L-2	22.5	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	38	22	7.5	132S2-2	11	160M1-2	15	160M2-2	19	5.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	31	17	5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-50-200	A	62	52	22	180M-2	30	300L1-2	37	200L2-2	31	13	3	100L2-4	4	112M-4	5.5	132S-4
	B	56	46	18.5	160L-2	22	180M-2	30	300L1-2	28.5	11.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	49	37	15	160M2-2	18.5	160L-2	22	180M-2	25	9	2.2	100L1-4	3	100L2-4	4	112M-4
	D	43	28	11	160M1-2	15	160M2-2	18.5	160L-2	22	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-50-250	A	70	82	37	200L2-2	45	225M-2	75	280S-2	35	20	5.5	132S-4	7.5	132M-4	11	160M-4
	B	66	75	37	200L2-2	45	225M-2	55	250M-2	33	18.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	60	60	30	300L1-2	37	200L2-2	45	225M-2	30	15	4	112M-4	5.5	132S-4	7.5	132M-4
	D	50	45	18.5	160L-2	22	180M-2	30	300L1-2	26	11	3	100L2-4	4	112M-4	5.5	132S-4
100-50-315	A	87	115	75	280S-2	90	280M-2	132	315M-2	44	28	15	160L-4	15	160L-4	18.5	180M-4
	B	80	100	55	250M-2	75	280S-2	110	315S-2	40	24	11	160M-4	15	160L-4	18.5	180M-4
	C	70	78	45	225M-2	55	250M-2	75	280S-2	35	19	7.5	132M-4	11	160M-4	15	160L-4
	D	57	57	30	300L1-2	37	200L2-2	55	250M-2	30	14	4	112M-4	5.5	132S-4	7.5	132M-4
100-50-400	A	82	194	132	315M-2					41	48	22	180L-4	30	200L-4	37	225S-4
	B	78	175	132	315M-2	160	315L1-2			39	43	18.5	180M-4	22	180L-4	30	200L-4
	C	70	140	90	280M-2	132	315M-2	160	315L1-2	35	34	15	160L-4	18.5	180M-4	22	180L-4
	D	60	102	75	280S-2	90	280M-2	132	315M-2	30	25	11	160M-4	15	160L-4	18.5	180M-4

(续)

型号 Model	Impeller Capacity	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	
		Head	配套电机功率及型号 Motor power and model														
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model
100-80-160	A	94	32	18.5	160L-2	22	180M-2	37	200L2-2	47	8	2.2	100L1-4	3	100L2-4	4	112M-4
	B	85	28	15	160M2-2	18.5	160L-2	30	300L1-2	42	7	2.2	100L1-4	3	100L2-4	4	112M-4
	C	76	23	15	160M2-2	15	160M2-2	18.5	160L-2	38	5.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	D	66	17	7.5	132S2-2	11	160M1-2	15	160M2-2	34	4	1.1	90S-4	1.5	90L-4	2.2	100L1-4
100-80-200	A	103	54	37	200L2-2	45	225M-2	55	250M-2	51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4
	B	95	48	30	300L1-2	37	200L2-2	45	225M-2	47	12	4	112M-4	5.5	132S-4	7.5	132M-4
	C	84	38	18.5	160L-2	30	300L1-2	37	200L2-2	41	9.5	3	100L2-4	4	112M-4	5.5	132S-4
	D	70	30	15	160M2-2	18.5	160L-2	30	300L1-2	36	7.5	2.2	100L1-4	3	100L2-4	4	112M-4
100-80-250	A	127	82	55	250M-2	90	280M-2	110	315S-2	64	20	7.5	132M-4	11	160M-4	15	160L-4
	B	120	76	55	250M-2	75	280S-2	90	280M-2	60	19	7.5	132M-4	11	160M-4	15	160L-4
	C	105	59	37	200L2-2	55	250M-2	75	280S-2	52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4
	D	87	45	30	300L1-2	37	200L2-2	45	225M-2	46	11	4	112M-4	5.5	132S-4	7.5	132M-4
100-80-315	A	141	127	110	315S-2	132	315M-2			70	33	18.5	180M-4	22	180L-4	30	200L-4
	B	135	121	90	280M-2	132	315M-2	160	315L1-2	66	30	15	160L-4	18.5	180M-4	30	200L-4
	C	115	97	75	280S-2	90	280M-2	132	315M-2	56	24	15	160L-4	15	160L-4	18.5	180M-4
	D	90	74	45	225M-2	55	250M-2	90	280M-2	45	18	7.5	132M-4	11	160M-4	15	160L-4
100-80-400	A	171	187							85	46	30	200L-4	37	225S-4	55	250M-4
	B	159	170							80	42	30	200L-4	37	225S-4	45	225M-4
	C	135	130	132	315M-2	160	315L1-2			65	33	18.5	180M-4	30	200L-4	37	225S-4
	D	116	95	90	280 M-2	110	315S-2	160	315L1-2	53	25	15	160L-4	18.5	180M-4	30	200L-4
100-100-160	A	162	29	30	300L1-2	37	200L2-2	45	225M-2	81	7.2	3	100L2-4	5.5	132S-4	7.5	132M-4
	B	150	24	18.5	160L-2	30	300L1-2	37	200L2-2	73	6	3	100L2-4	4	112M-4	5.5	132S-4
	C	130	17	15	160M2-2	18.5	160L-2	22	180M-2	63	4.3	2.2	100L1-4	4	112M-4	4	112M-4
	D	110	12	11	160M1-2	15	160M2-2	18.5	160L-2	55	3	1.5	90L-4	2.2	100L1-4	3	100L2-4
100-100-200	A	193	50	55	250M-2	75	280S-2	90	280M-2	95	12.5	7.5	132M-4	7.5	132M-4	11	160M-4
	B	180	44	45	225M-2	55	250M-2	75	280S-2	90	10.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	155	35	37	200L2-2	45	225M-2	55	250M-2	80	8.5	4	112M-4	5.5	132S-4	7.5	132M-4
	D	135	26	22	180M-2	30	300L1-2	37	200L2-2	70	6	3	100L2-4	4	112M-4	5.5	132S-4
150-100-250	A	230	79	90	280M-2	110	315S-2	160	315L1-2	115	20	15	160L-4	18.5	180M-4	22	180L-4
	B	218	73	90	280M-2	110	315S-2	132	315M-2	110	18	11	160M-4	15	160L-4	18.5	180M-4
	C	190	58	55	250M-2	75	280S-2	110	315S-2	100	14	7.5	132M-4	11	160M-4	15	160L-4
	D	170	44	45	225M-2	55	250M-2	90	280M-2	90	10	5.5	132S-4	7.5	132M-4	11	160M-4
150-100-315	A	250	126	160	315L1-2					125	31	22	180L-4	37	225S-4	45	225M-4
	B	240	120	160	315L1-2					119	29	22	180L-4	30	200L-4	37	225S-4
	C	203	97	110	315S-2	160	315L1-2			104	24	18.5	180M-4	22	180L-4	30	200L-4
	D	170	71	90	280M-2	110	315S-2	132	315M-2	86	17.5	15	160L-4	15	160L-4	18.5	180M-4

(续)

型号 Model	O	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min											
		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84					
		Head		配套电机功率及型号 Motor power and model								Head		配套电机功率及型号 Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model				
150-100-400	A	300	194							150	48	45	225M-4	55	250M-4	90	280M-4				
	B	290	180							145	44	37	225S-4	55	250M-4	75	280S-4				
	C	260	145							130	36	30	200L-4	37	225S-4	55	250M-4				
	D	224	105	160	315L1-2					115	26	22	180L-4	30	200L-4	37	225S-4				
150-100-500	A									180	75	90	280M-4	110	315S-4	132	315M-4				
	B									167	68	75	280S-4	90	280M-4	132	315M-4				
	C									142	53	55	250M-4	75	280S-4	90	280M-4				
	D									120	42	37	225S-4	45	225M-4	75	280S-4				
150-150-200	A	320	44	75	280S-2	90	280M-2			160	11	11	160M-4	15	160L-4	18.5	180M-4				
	B	300	39	55	250M-2	90	280M-2	110	315S-2	152	9.5	11	160M-4	15	160L-4	18.5	180M-4				
	C	265	30	45	225M-2	55	250M-2	90	280M-2	140	7	7.5	132M-4	11	160M-4	15	160L-4				
	D	220	23	30	300L1-2	45	225M-2	55	250M-2	123	5	4	112M-4	5.5	132S-4	7.5	132M-4				
150-150-250	A	390	74	132	315M-2					195	18.5	18.5	180M-4	30	200L-4	37	225S-4				
	B	355	62	110	315S-2	160	315L1-2			180	16	18.5	180M-4	22	180L-4	30	200L-4				
	C	325	46	90	280M-2	132	315M-2	160	315L1-2	160	11.5	15	160L-4	F15	160L-4	18.5	180M-4				
	D																				
150-150-315	A	442	125							220	32.5	37	225S-4	55	250M-4	75	280S-4				
	B	430	120							210	30	37	225S-4	45	225M-4	75	280S-4				
	C	372	94							180	24	30	200L-4	37	225S-4	45	225M-4				
	D	310	68	132	315M-2	160	315L1-2			150	17	18.5	180M-4	22	180L-4	30	200L-4				
150-150-400	A									260	51	75	280S-4	90	280M-4	132	315M-4				
	B									250	48	75	280S-4	90	280M-4	110	315S-4				
	C									225	38	45	225M-4	75	280S-4	90	280M-4				
	D									200	28	37	225S-4	45	225M-4	75	280S-4				
200-200-250	A	610	72							305	17.5	30	200L-4	37	225S-4	55	250M-4				
	B	580	65							290	16	22	180L-4	37	225S-4	45	225M-4				
	C	520	47	132	315M-2	160	315L1-2			260	12	18.5	180M-4	22	180L-4	37	225S-4				
	D	470	32	90	280M-2	110	315S-2	132	315M-2	240	8	15	160L-4	18.5	180M-4	18.5	180M-4				
200-200-315	A	710	122							350	30	55	250M-4	75	280S-4	90	280M-4				
	B	680	114							340	29	45	225M-4	75	280S-4	90	280M-4				
	C	600	87							300	22	37	225S-4	45	225M-4	75	280S-4				
	D	480	65	160	315L1-2					250	15	22	180L-4	30	200L-4	37	225S-4				
200-200-400	A									426	50	110	315S-4	132	315M-4						
	B									410	47	90	280M-4	132	315M-4	160	315L1-4				
	C									370	36.5	75	280S-4	90	280M-4	132	315M-4				
	D									332	27	55	250M-4	75	280S-4	90	280M-4				

注：表中有流量、扬程值，而无功率值的泵、其功率超过160kW,需订货时确定。

Note: In this table, there are flow and head, but if the pump has no power value, or the power out of 160kW, must be determined when ording.



## 904L Acetic Acid Resistant High Temperature Magnetic Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>z</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

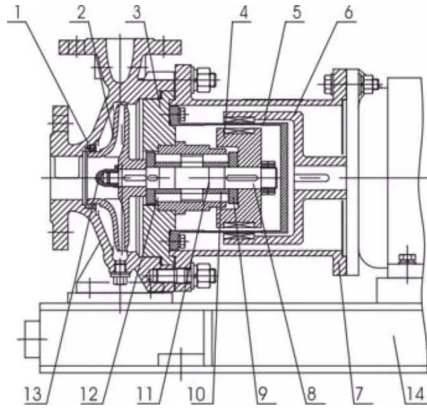
### Product Description

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

直联式  
MONOBLOCK TYPE

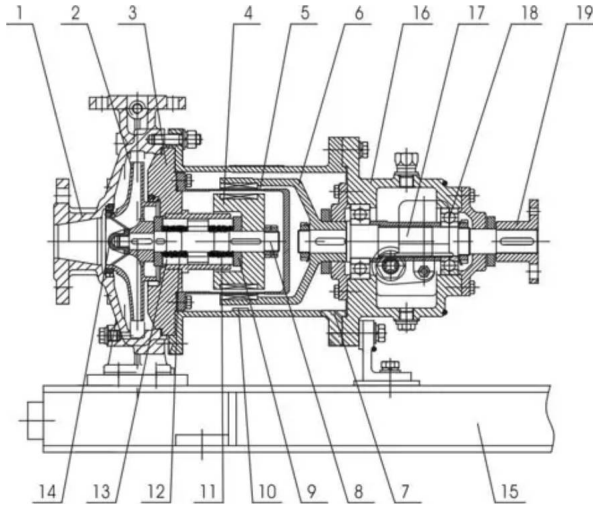


- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母 Impell nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132



分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (10),	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## Acetic Acid Resistant High Temperature Magnetic Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>z</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

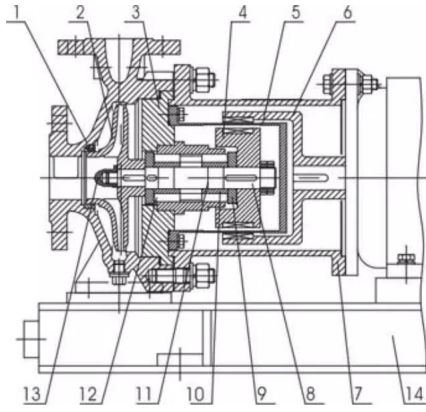
### Product Description

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

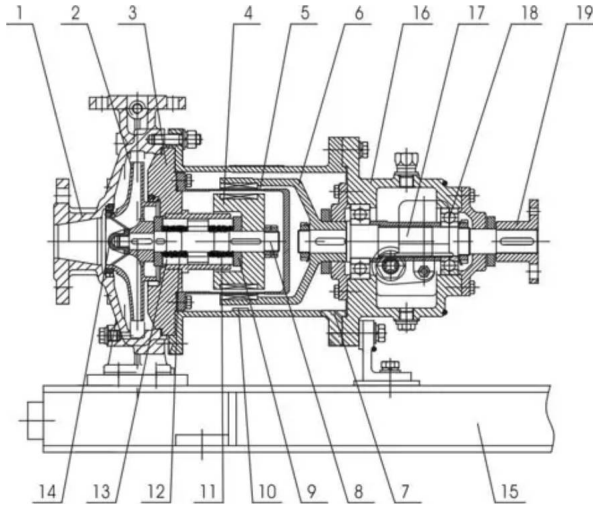
直联式  
MONOBLOCK TYPE



- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母Impell nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132

分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (10),	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## Small Capacity High Head Chemical Process Pump Small Flow Rate Chemical Process Magnetic Drive Pump

### Product Description:

MDPQ series petrochemical process pumps are designed according to API610 and API685. It is our latest development of a low RPM fully sealed magnetic pump with domestic leading level. This pump is single stage or double stage impeller back to back structure. It has simple structure, shorter shaft, less components, easier to repair. Also, symmetrical impeller eliminate the axial force, improved reliability of pump operation.

The MDPQ pump can be widely used in chemical industry,



petrochemical industry, pharmaceuticals, bioengineering and so on. For the transfer liquid, there should not include any particle. It is special design for pumping inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. In addition, MDPQ pump's characteristic is special for low flow and high head work condition.

## Product Description

### **Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload

### **Typical Uses:**

The wearing part of MDPQ series pump is stainless steel, the pump can be used to transfer not only water, but also corrosive medium, expensive liquid or the other physical and chemical medium. The medium temperature should be less or equal to

350°C. This product is widely apply to:

Chemical Industry	Petroleum Industry	Pharmaceutical Industry
Biological Industry	Nuclear Power Plant	Nonferrous Metal
Food Industry	Automotive Industry	Municipal Water Supply

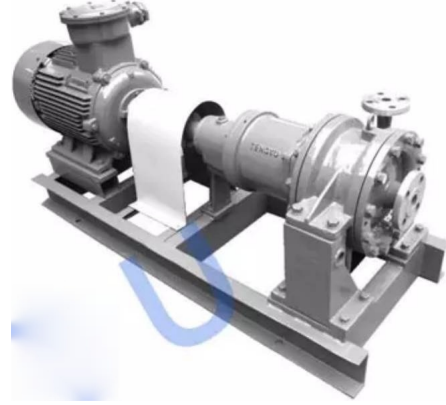
## GENERAL

MDPQ型磁力传动切线流泵（也称磁力传动小流量高扬程泵或部分流泵）是我公司根据市场需要最新开发研制的，具有国内领先水平的一种低比转数全密封离心泵，其性能、技术条件符合API610、API685等标准的要求。本系列流程泵采用单级或两级叶轮背靠背对称布置结构，与高速泵和多级泵相比，结构大为简化，泵轴向尺寸短，零部件少，检修维护方便，且因叶轮对称布置几乎消除了轴向力，提高了泵及装置运行的可靠性，具有同属低比转速的旋涡泵无可比拟的优点。

可广泛适用于石油、化工、生物制药、生物工程等领域的生产流程中输送不含固体颗粒的清洁液体，适用于易燃、易爆、有毒、有害、有腐蚀性及贵重液态介质输送。特别在小流量、高扬程的场合更能发挥其独特的作用。

MDPQ series petrochemical process pumps are designed according to API610 and API685. This pump is single-stage or double stage impeller back to back structure, compare with the multilevel stage pump or high speed pump, it has simple structure, shorter shaft, less components easier to repair. Symmetrical impeller eliminate the axial force, heightens the effect.

The pump can be widely used in chemical industry, petrochemical industry, Pharmaceuticals, bioengineering, printing and dyeing, food, etc. the liquid should not include the particle. And it is special for pumping the inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. Its characteristic is that the MDPQ special for low flow and high head work condition.



## MEANING OF THE MODEL

例: MDPQ 3.2-100x2 A L

EX:

- 分体式（直联式不标注）
- "L" is coupling, no "ML" is monobloc
- 叶轮型式（用A、B、C...表示, 原型不标注）
- Impeller cut sequence number
- 叶轮级数（单级不标）
- Impeller stage
- 基本型单级额定扬程□m□
- Single stage rating head□m□
- 基本型额定流量
- Rating capacity (m<sup>3</sup>/h)
- 磁力传动切线流泵
- Magnetic drive tangential flow pump

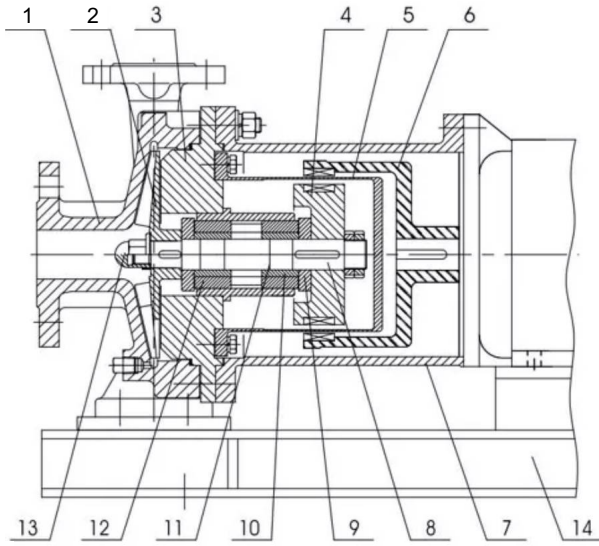
## MATERIAL SELECTION

根据输送介质、使用工况及用户要求可选用：CS、1Cr13、0Cr18Ni9(304)、0Cr18Ni12Mo2Ti(316)、钛合金、哈氏合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be chosen according different medium and work condition.

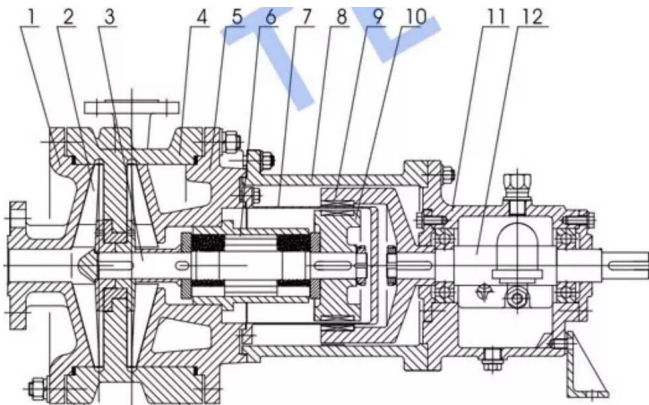
## SKETCH MAP OF STRUCTURE

单级结构  
ONE-STAGE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12 滑动轴承 Slide bearing
- 13 叶轮螺母 Impeller nut
- 14 底座 Base plate

二级结构  
TWO-STAGE



- 01 泵体前盖 Pump front cover
- 02 叶轮 Impeller
- 03 泵轴 Shaft
- 04 泵体 Casing
- 05 泵盖 Pump cover
- 06 滑动轴承组件 Slide bearing components
- 07 隔离套 Insulate sheath
- 08 联结架 Connect frame
- 09 外磁总成 Outer magnetic part
- 10 内磁总成 Inner magnetic part
- 11 轴承箱部件 Bearing box part
- 12 传动轴 Drive shaft

口径: DN25 ~ DN80mm  
流量: 0.6 ~ 40m<sup>3</sup>/h  
扬程: 25 ~ 400m  
转速: 2900r/min  
工作温度: ≤350°C  
压力: <2.5Mpa (底脚支撑);  
≥5.0Mpa (中心线支撑)  
粘度: ≤100mm<sup>2</sup>/s  
电机功率: 1.1 ~ 160kW

Caliber: DN25 ~ DN80mm  
Capacity: 0.6 ~ 40m<sup>3</sup>/h  
Head: 25 ~ 400m  
Rotate speed: 2900r/min  
Work temperature: ≤350°C  
Pressure: ≤2.5Mpa (underprop is footing);  
≥5.0Mpa (underprop is centerline)  
Viscosity: ≤100mm<sup>2</sup>/s  
Motor power: 1.1 ~ 160kW

## PERFORMANCE PARAMETER

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	转速 Rotate speed (r/min)	电机功率 Motor power (kW)	效率 Efficiency (%)	必需汽蚀余量 NPSHr (m)	进口 X 出口 Inlet x Outlet (mm)
MDPQ 0.6-25	0.6	25	2900	1.1	7	2.0	40X25
MDPQ 0.6-40	0.6	40		3	7	2.0	
MDPQ 0.6-65	0.6	65		4	6	2.0	
MDPQ 0.6-80	0.6	80		7.5	6	2.0	
MDPQ 1-25	1	25	2900	1.5	8	2.0	40X25
MDPQ 1-40	1	40		4	6	2.0	
MDPQ 1-65	1	65		5.5	5	2.0	
MDPQ 1-80	1	80		7.5	5	2.0	
MDPQ 1-100	1	100		11	4	2.0	
MDPQ 3.2-25	3.2	25	2900	3	12	2.2	40X25
MDPQ 3.2-40	3.2	40		4	11	2.2	
MDPQ 3.2-65	3.2	65		7.5	10	2.2	
MDPQ 3.2-80	3.2	80		11	9	2.2	
MDPQ 3.2-100	3.2	100		15	8	2.2	
MDPQ 3.2-120	3.2	120	2900	18.5	8	2.5	
MDPQ 3.2-150	3.2	150		22	8	2.5	
MDPQ 3.2-100X2	3.2	200		30	8	2.5	
MDPQ 3.2-125X2	3.2	250		37	7	2.5	
MDPQ 3.2-150X2	3.2	300		45	71	2.5	
MDPQ 6.3-25	6.3	25	2900	3	22	2.5	40X25
MDPQ 6.3-40	6.3	40		5.5	20	2.5	
MDPQ 6.3-65	6.3	65		7.5	18	2.5	
MDPQ 6.3-80	6.3	80			16	2.5	
MDPQ 6.3-100	6.3	100		<sup>151	15	2.5	
MDPQ 6.3-120	6.3	120	2900	18.5	14	2.5	40X25
MDPQ 6.3-150	6.3	150		22	14	2.5	
MDPQ 6.3-100X2	6.3	200		30	13	2.5	
MDPQ 6.3-125X2	6.3	250		45	12	2.5	
MDPQ 6.3-150X2	6.3	300		55	11	2.5	
MDPQ 12.5-80	12.5	80	2900	18.5	22	2.5	50X32
MDPQ 12.5-100	12.5	100		22	19	2.5	
MDPQ 12.5-125	12.5	125		30	17	2.5	
MDPQ 12.5-150	12.5	150		37	16	2.5	
MDPQ 12.5-100X2	12.5	200		45	19	2.5	
MDPQ 12.5-125X2	12.5	250		55	18	2.5	
MDPQ 12.5-150X2	12.5	300	75	17	2.5		
MDPQ 25-80X2	25	160	2900	45	31	2.7	80X40
MDPQ 25-100X2	25	200		55	29	2.7	
MDPQ 25-125X2	25	250		75	28	2.7	
MDPQ 25-150X2	25	300		90	26	2.7	
MDPQ 25-175X2	25	350		110	25	2.7	
MDPQ 25-200X2	25	400	132	24	2.7		
MDPQ 40-150	40	150	2900	75	31	3.2	80X40
MDPQ 40-100X2	40	200		75	34	3.2	
MDPQ 40-125X2	40	250		90	33	3.2	
MDPQ 40-150X2	40	300		110	33	3.2	
MDPQ 40-175X2	40	350		132	32	3.2	
MDPQ 40-200X2	40	400	160	30	3.2		

注：性能超出此范围，可另行设计。

Note: We can special design for you if the pump is not including in this table.





## Heavy-Duty Shaft and Bearings Magnetic Coupling Pump Chemical Magdrive Pumps

The MDPA Magnetic Drive Oil Chemical Process Pump is the new type of pump that developed by Tengyu that has the domestic leading level. Compared with mechanically sealed ZA/ZE oil chemical process pump<sub>2</sub> MDPA pump has many incomparable advantages and provides a better choice for leak-free occasions in chemical process.

### Product Description

The MDPA adopts integrated planning design, the high level of generalization and serialization leads to easy interchangeability of

parts. The hydraulic components are designed according to the excellent hydraulic model in Europe. The new structure curve has no hump and the performance is stable. MDPA has very good cavitation resistance and greatly improved efficiency compared to other similar products on market. The MDPA pump is designed according to API610/API685 and other standards, it has unique advantages in petrochemical industry with high reliability and easy maintenance.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

## MATERIAL SELECTION

根据输送介质，使用工况及用户要求可选用：CS、1Cr13、0Cr18Ni9(304)x 0Cr18Ni12Mo2Ti(316)、钛合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be choosed according different medium and work condition.

## PERFORMANCE RANGE

口径: DN25 ~ DN200mm

流量: 4 ~ 300m³/h

扬程: < 194m

转速: 2900r/min; 1450r/min

工作温度: < 175°C(MDPA); ≥ 35(°C)(MDPE)

粘度: < 100mm²/s

压力: ≥ 2.5Mpa(MDPA); ≥ 5.0Mpa(MDPE)

电机功率: 1.1 ~ 160kW

Caliber: DN25-DN200mm

Capacity: 4 ~ 300m³/h

Head: ≥ 194m

Rotate speed: 2900r/min; 1450r/min

Work temperature: < 175°C(MDPA); ≥ 35°C(MDPE)

Viscosity: < 100mm²/s

Pressure: ≥ 2.5Mpa(MDPA); ≥ 5.0Mpa(MDPE)

Motor power: 1.1 ~ 160kW

## PERFORMANCE PARAMETER

型号 Model	叶轮 型式 Impeller	額定转速 Rating rotate speed n=2900r/min							額定转速 Rating rotate speed n=1450r/min								
		流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84	浪涌	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84
		Capacity m³/h	Head m	kW	型号 Model	配套电机功率及型号 Motor power and model	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model
40-25-200	A	11.5	49	7.5	132S2-2	J1	15	160M2-2	5.8	12	1.1	90S-4	1.1	90S-4	1.5	90L-4	
	B	10.5	42	5.5	132S1-2	75	132S2-2	11	160M1-2	5.4	11	1.1	90S-4	1.1	90S-4	1.5	90L-4
	C	9	36	4	112M-2		132S1-2	7.5	132S2-2	4.6	8.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
	D	7.5	28	3	100L-2	4	112M-2	5.5	132S1-2	4	6.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
50-25-250	A	11.5	80	15	160M2-2	18.5	160L-2	30	300L1-2	8	17	3	100L2-4	4	112M-4	5.5	132S-4
	B	9.5	67	15	160M2-2	18.5	160L-2	22	180M-2	7	16.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	8.8	50	11	160M1-2	15	160M2-2	18.5	160L-2	6.5	12	3	100L2-4	4	112M-4	5.5	132S-4
	D	8.5	30	7.5	132S2-2	11	160M1-2	15	160M2-2	6	6.5	2.2	100L1-4	3	100L2-4	4	112M-4
50-25-315	A	21	128	45	225M-2	55	250M-2	75	280S-2	9.6	32	7.5	132M-4	11	160M-4	15	160L-4
	B	18	115	37	200L2-2	55	250M-2	75	280S-2	8.5	30	5.5	132S-4	11	160M-4	15	160L-4
	C	16	100	37	200L2-2	45	225M-2	55	250M-2	7.5	25	5.5	132S-4	7.5	132M-4	11	160M-4
	D	14	90	30	300L1-2	45	225M-2	55	250M-2	7	22	5.5	132S-4	7.5	132M-4	11	160M-4
80-40-160	A	28	33	7.5	132S2-2	11	160M1-2	15	160M2-2	14	8	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	B	25.5	29	7.5	132S2-2	11	160M1-2	15	160M2-2	13	7	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	C	22	22	5.5	132S1-2	7.5	132S2-2	11	160M1-2	11	5.5	1.1	90S-4	1.1	90S-4	1.5	90L-4
	D	20	16	4	112M-2	4	112M-2	7.5	132S2-2	9.5	4.5	1.1	90S-4	1.1	90S-4	1.1	90S-4

(续)

型号 Model	叶型	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	
		Head	配套电机功率及型号 Motor power and model						Capacity	Head	配套电机功率及型号 Motor power and model						
	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	
80-40-200	A	29	53	15	160M2-2	18.5	160L-2	22	180M-2	14.5	13	2.2	100L1-4	2.2	100L1-4	4	112M-4
	B	26	47	11	160M1-2	15	160M2-2	22	180M-2	13	11.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	22	39	11	160M1-2	11	160M1-2	15	160M2-2	11.5	9	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	18	20	7.5	132S2-2	11	160M1-2	15	160M2-2	9.5	7	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-40-250	A	32	78	22	180M-2	30	300L1-2	37	200L2-2	16	19.5	3	100L2-4	4	112M-4	5.5	132S-4
	B	30	72	22	180M-2	30	300L1-2	37	200L2-2	15	18	3	100L2-4	4	112M-4	5.5	132S-4
	C	24	60	15	160M2-2	18.5	160L-2	30	300L1-2	12.5	14	2.2	100L1-4	3	100L2-4	4	112M-4
	D	21	47	11	160M1-2	15	160M2-2	18.5	160L-2	10.5	11	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-40-315	A	42	115	45	225M-2	75	280S-2	90	280M-2	21	29	7.5	132M-4	11	160M-4	15	160L-4
	B	40	107	45	225M-2	55	250M-2	75	280S-2	20	26.5	7.5	132M-4	11	160M-4	15	160L-4
	C	34	81	30	300L1-2	45	225M-2	55	250M-2	17.5	20	5.5	132S-4	7.5	132M-4	11	160M-4
	D	29	61	22	180M-2	30	300L1-2	37	200L2-2	15	15	4	112M-4	5.5	132S-4	7.5	132M-4
80-40-400	A	42.5	156	75	280S-2	90	280M-2	132	315M-2	21	39	11	160M-4	15	160L-4	18.5	180M-4
	B	42	126	55	250M-2	75	280S-2	110	315S-2	20	32	11	160M-4	11	160M-4	15	160L-4
	C	40	110	55	250M-2	75	280S-2	90	280M-2	19	28	7.5	132M-4	11	160M-4	15	160L-4
	D	37.5	82	37	200L2-2	55	250M-2	75	280S-2	18	20.5	5.5	132S-4	7.5	132M-4	11	160M-4
80-50-160	A	50	34	15	160M2-2	18.5	160L-2	22	180M-2	25	8.4	1.5	90L-4	2.2	100L1-4	3	100L2-4
	B	45	29	11	160M1-2	15	160M2-2	18.5	160L-2	22.5	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	38	22	7.5	132S2-2	11	160M1-2	15	160M2-2	19	5.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	31	17	5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-50-200	A	62	52	22	180M-2	30	300L1-2	37	200L2-2	31	13	3	100L2-4	4	112M-4	5.5	132S-4
	B	56	46	18.5	160L-2	22	180M-2	30	300L1-2	28.5	11.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	49	37	15	160M2-2	18.5	160L-2	22	180M-2	25	9	2.2	100L1-4	3	100L2-4	4	112M-4
	D	43	28	11	160M1-2	15	160M2-2	18.5	160L-2	22	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-50-250	A	70	82	37	200L2-2	45	225M-2	75	280S-2	35	20	5.5	132S-4	7.5	132M-4	11	160M-4
	B	66	75	37	200L2-2	45	225M-2	55	250M-2	33	18.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	60	60	30	300L1-2	37	200L2-2	45	225M-2	30	15	4	112M-4	5.5	132S-4	7.5	132M-4
	D	50	45	18.5	160L-2	22	180M-2	30	300L1-2	26	11	3	100L2-4	4	112M-4	5.5	132S-4
100-50-315	A	87	115	75	280S-2	90	280M-2	132	315M-2	44	28	15	160L-4	15	160L-4	18.5	180M-4
	B	80	100	55	250M-2	75	280S-2	110	315S-2	40	24	11	160M-4	15	160L-4	18.5	180M-4
	C	70	78	45	225M-2	55	250M-2	75	280S-2	35	19	7.5	132M-4	11	160M-4	15	160L-4
	D	57	57	30	300L1-2	37	200L2-2	55	250M-2	30	14	4	112M-4	5.5	132S-4	7.5	132M-4
100-50-400	A	82	194	132	315M-2					41	48	22	180L-4	30	200L-4	37	225S-4
	B	78	175	132	315M-2	160	315L1-2			39	43	18.5	180M-4	22	180L-4	30	200L-4
	C	70	140	90	280M-2	132	315M-2	160	315L1-2	35	34	15	160L-4	18.5	180M-4	22	180L-4
	D	60	102	75	280S-2	90	280M-2	132	315M-2	30	25	11	160M-4	15	160L-4	18.5	180M-4

(续)

型号 Model	Impeller Capacity	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	
		Head	配套电机功率及型号 Motor power and model														
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model
100-80-160	A	94	32	18.5	160L-2	22	180M-2	37	200L2-2	47	8	2.2	100L1-4	3	100L2-4	4	112M-4
	B	85	28	15	160M2-2	18.5	160L-2	30	300L1-2	42	7	2.2	100L1-4	3	100L2-4	4	112M-4
	C	76	23	15	160M2-2	15	160M2-2	18.5	160L-2	38	5.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	D	66	17	7.5	132S2-2	11	160M1-2	15	160M2-2	34	4	1.1	90S-4	1.5	90L-4	2.2	100L1-4
100-80-200	A	103	54	37	200L2-2	45	225M-2	55	250M-2	51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4
	B	95	48	30	300L1-2	37	200L2-2	45	225M-2	47	12	4	112M-4	5.5	132S-4	7.5	132M-4
	C	84	38	18.5	160L-2	30	300L1-2	37	200L2-2	41	9.5	3	100L2-4	4	112M-4	5.5	132S-4
	D	70	30	15	160M2-2	18.5	160L-2	30	300L1-2	36	7.5	2.2	100L1-4	3	100L2-4	4	112M-4
100-80-250	A	127	82	55	250M-2	90	280M-2	110	315S-2	64	20	7.5	132M-4	11	160M-4	15	160L-4
	B	120	76	55	250M-2	75	280S-2	90	280M-2	60	19	7.5	132M-4	11	160M-4	15	160L-4
	C	105	59	37	200L2-2	55	250M-2	75	280S-2	52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4
	D	87	45	30	300L1-2	37	200L2-2	45	225M-2	46	11	4	112M-4	5.5	132S-4	7.5	132M-4
100-80-315	A	141	127	110	315S-2	132	315M-2			70	33	18.5	180M-4	22	180L-4	30	200L-4
	B	135	121	90	280M-2	132	315M-2	160	315L1-2	66	30	15	160L-4	18.5	180M-4	30	200L-4
	C	115	97	75	280S-2	90	280M-2	132	315M-2	56	24	15	160L-4	15	160L-4	18.5	180M-4
	D	90	74	45	225M-2	55	250M-2	90	280M-2	45	18	7.5	132M-4	11	160M-4	15	160L-4
100-80-400	A	171	187							85	46	30	200L-4	37	225S-4	55	250M-4
	B	159	170							80	42	30	200L-4	37	225S-4	45	225M-4
	C	135	130	132	315M-2	160	315L1-2			65	33	18.5	180M-4	30	200L-4	37	225S-4
	D	116	95	90	280M-2	110	315S-2	160	315L1-2	53	25	15	160L-4	18.5	180M-4	30	200L-4
100-100-160	A	162	29	30	300L1-2	37	200L2-2	45	225M-2	81	7.2	3	100L2-4	5.5	132S-4	7.5	132M-4
	B	150	24	18.5	160L-2	30	300L1-2	37	200L2-2	73	6	3	100L2-4	4	112M-4	5.5	132S-4
	C	130	17	15	160M2-2	18.5	160L-2	22	180M-2	63	4.3	2.2	100L1-4	4	112M-4	4	112M-4
	D	110	12	11	160M1-2	15	160M2-2	18.5	160L-2	55	3	1.5	90L-4	2.2	100L1-4	3	100L2-4
100-100-200	A	193	50	55	250M-2	75	280S-2	90	280M-2	95	12.5	7.5	132M-4	7.5	132M-4	11	160M-4
	B	180	44	45	225M-2	55	250M-2	75	280S-2	90	10.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	155	35	37	200L2-2	45	225M-2	55	250M-2	80	8.5	4	112M-4	5.5	132S-4	7.5	132M-4
	D	135	26	22	180M-2	30	300L1-2	37	200L2-2	70	6	3	100L2-4	4	112M-4	5.5	132S-4
150-100-250	A	230	79	90	280M-2	110	315S-2	160	315L1-2	115	20	15	160L-4	18.5	180M-4	22	180L-4
	B	218	73	90	280M-2	110	315S-2	132	315M-2	110	18	11	160M-4	15	160L-4	18.5	180M-4
	C	190	58	55	250M-2	75	280S-2	110	315S-2	100	14	7.5	132M-4	11	160M-4	15	160L-4
	D	170	44	45	225M-2	55	250M-2	90	280M-2	90	10	5.5	132S-4	7.5	132M-4	11	160M-4
150-100-315	A	250	126	160	315L1-2					125	31	22	180L-4	37	225S-4	45	225M-4
	B	240	120	160	315L1-2					119	29	22	180L-4	30	200L-4	37	225S-4
	C	203	97	110	315S-2	160	315L1-2			104	24	18.5	180M-4	22	180L-4	30	200L-4
	D	170	71	90	280M-2	110	315S-2	132	315M-2	86	17.5	15	160L-4	15	160L-4	18.5	180M-4

(续)

型号 Model	O	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	
		Head		配套电机功率及型号 Motor power and model						Head		配套电机功率及型号 Motor power and model					
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model
150-100-400	A	300	194							150	48	45	225M-4	55	250M-4	90	280M-4
	B	290	180							145	44	37	225S-4	55	250M-4	75	280S-4
	C	260	145							130	36	30	200L-4	37	225S-4	55	250M-4
	D	224	105	160	315L1-2					115	26	22	180L-4	30	200L-4	37	225S-4
150-100-500	A									180	75	90	280M-4	110	315S-4	132	315M-4
	B									167	68	75	280S-4	90	280M-4	132	315M-4
	C									142	53	55	250M-4	75	280S-4	90	280M-4
	D									120	42	37	225S-4	45	225M-4	75	280S-4
150-150-200	A	320	44	75	280S-2	90	280M-2			160	11	11	160M-4	15	160L-4	18.5	180M-4
	B	300	39	55	250M-2	90	280M-2	110	315S-2	152	9.5	11	160M-4	15	160L-4	18.5	180M-4
	C	265	30	45	225M-2	55	250M-2	90	280M-2	140	7	7.5	132M-4	11	160M-4	15	160L-4
	D	220	23	30	300L1-2	45	225M-2	55	250M-2	123	5	4	112M-4	5.5	132S-4	7.5	132M-4
150-150-250	A	390	74	132	315M-2					195	18.5	18.5	180M-4	30	200L-4	37	225S-4
	B	355	62	110	315S-2	160	315L1-2			180	16	18.5	180M-4	22	180L-4	30	200L-4
	C	325	46	90	280M-2	132	315M-2	160	315L1-2	160	11.5	15	160L-4	F15	160L-4	18.5	180M-4
	D																
150-150-315	A	442	125							220	32.5	37	225S-4	55	250M-4	75	280S-4
	B	430	120							210	30	37	225S-4	45	225M-4	75	280S-4
	C	372	94							180	24	30	200L-4	37	225S-4	45	225M-4
	D	310	68	132	315M-2	160	315L1-2			150	17	18.5	180M-4	22	180L-4	30	200L-4
150-150-400	A									260	51	75	280S-4	90	280M-4	132	315M-4
	B									250	48	75	280S-4	90	280M-4	110	315S-4
	C									225	38	45	225M-4	75	280S-4	90	280M-4
	D									200	28	37	225S-4	45	225M-4	75	280S-4
200-200-250	A	610	72							305	17.5	30	200L-4	37	225S-4	55	250M-4
	B	580	65							290	16	22	180L-4	37	225S-4	45	225M-4
	C	520	47	132	315M-2	160	315L1-2			260	12	18.5	180M-4	22	180L-4	37	225S-4
	D	470	32	90	280M-2	110	315S-2	132	315M-2	240	8	15	160L-4	18.5	180M-4	18.5	180M-4
200-200-315	A	710	122							350	30	55	250M-4	75	280S-4	90	280M-4
	B	680	114							340	29	45	225M-4	75	280S-4	90	280M-4
	C	600	87							300	22	37	225S-4	45	225M-4	75	280S-4
	D	480	65	160	315L1-2					250	15	22	180L-4	30	200L-4	37	225S-4
200-200-400	A									426	50	110	315S-4	132	315M-4		
	B									410	47	90	280M-4	132	315M-4	160	315L1-4
	C									370	36.5	75	280S-4	90	280M-4	132	315M-4
	D									332	27	55	250M-4	75	280S-4	90	280M-4

注：表中有流量、扬程值，而无功率值的泵、其功率超过160kW,需订货时确定。

Note: In this table, there are flow and head, but if the pump has no power value, or the power out of 160kW, must be determined when ording.





## Heavy-Duty Shaft and Bearings Magnetic Coupling Pump Chemical Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>2</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

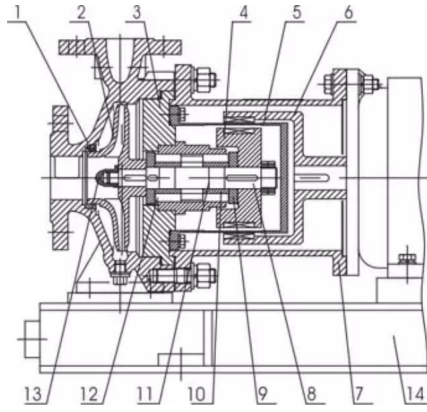
### Product Description

As the second generation product of the CQ magnetic drive pump<sub>2</sub> this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

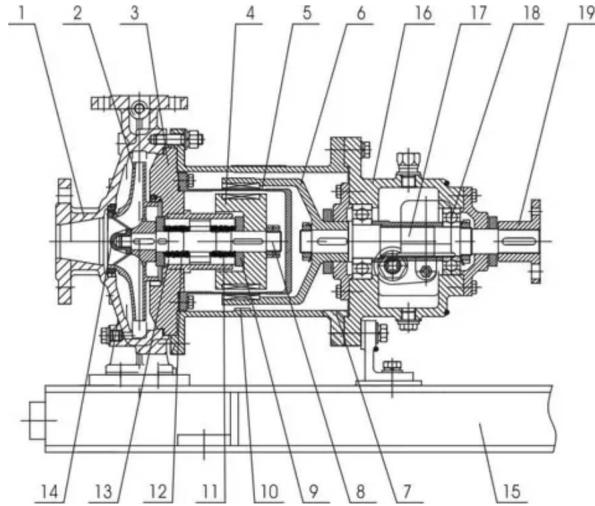
直联式  
MONOBLOCK TYPE



- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母 Impeller nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132

分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (10),	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## Chemical Horizontal Flammable Anti-Corrosion Liquid Centrifugal Pump Stainless Steel Acid Alkali Resistant Magnetic Drive Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>z</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

### Product Description

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed

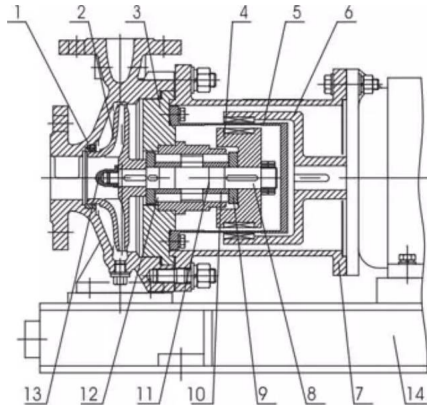
of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.



直联式  
MONOBLOCK TYPE

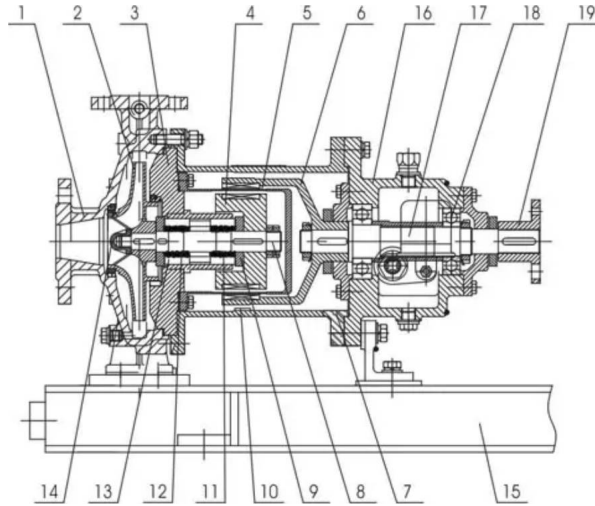


- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母 Impeller nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132



分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (10),	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## Water Circulation Acid Transfer Chemical Pump Magnetic Drive Pump Magnet Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>2</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

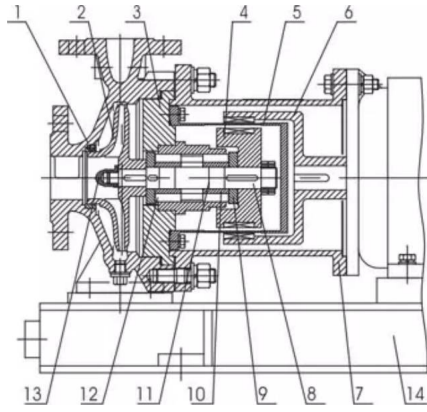
### Product Description

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

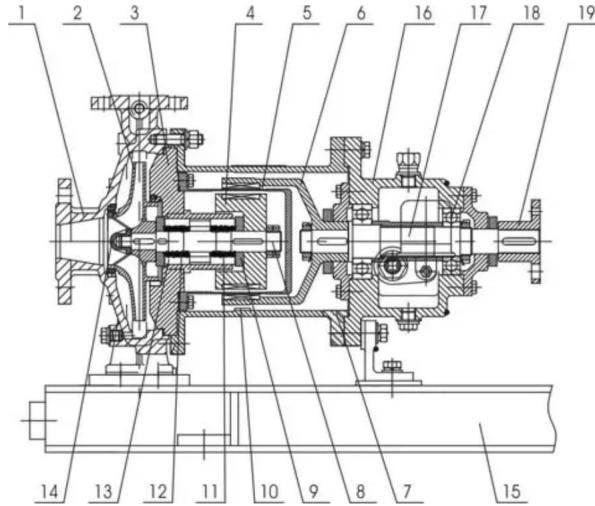
直联式  
MONOBLOCK TYPE



- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母Impell nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132

分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (10),	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## Centrifugal Pump Transfer Pump Chemical Pump Liquid Pumps

The MDPA Magnetic Drive Oil Chemical Process Pump is the new type of pump that developed by Tengyu that has the domestic leading level. Compared with mechanically sealed ZA/ZE oil chemical process pump, MDPA pump has many incomparable advantages and provides a better choice for leak-free occasions in chemical process.

### Product Description

The MDPA adopts integrated planning design, the high level of generalization and serialization leads to easy interchangeability of parts. The hydraulic components are designed according to the

excellent hydraulic model in Europe. The new structure curve has no hump and the performance is stable. MDPA has very good cavitation resistance and greatly improved efficiency compared to other similar products on market. The MDPA pump is designed according to API610/API685 and other standards, it has unique advantages in petrochemical industry with high reliability and easy maintenance.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.



## MATERIAL SELECTION

根据输送介质，使用工况及用户要求可选用：CS，1Cr13、0Cr18Ni9(304)x 0Cr18Ni12Mo2Ti(316)、钛合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be choosed according different medium and work condition.

## PERFORMANCE RANGE

口径: DN25 ~ DN200mm

流量: 4~300m³/h

扬程: < 194m

转速: 2900r/min; 1450r/min

工作温度: < 175°C(MDPA); ≥ 35°C(MDPE)

粘度: < 100mm²/s

压力: ≥ 2.5Mpa(MDPA); ≤ 5.0Mpa(MDPE)

电机功率: 1.1~160kW

Caliber: DN25-DN200mm

Capacity: 4 ~ 300m³/h

Head: < 194m

Rotate speed: 2900r/min; 1450r/min

Work temperature: < 175°C(MDPA); ≥ 35°C(MDPE)

Viscosity: < 100mm²/s

Pressure: ≥ 2.5Mpa(MDPA); ≤ 5.0Mpa(MDPE)

Motor power: 1.1 ~ 160kW

## 性能参数

## PERFORMANCE PARAMETER

型号 Model	叶轮 型式 Impeller	额定转速 Rating rotate speed n=2900r/min							浪涌 额定转速 Rating rotate speed n=1450r/min								
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84						
		Capacity m³/h	Head m	配套电机功率及型号 Motor power and model				Capacity m³/h	Head m	配套电机功率及型号 Motor power and model							
		kW	型号 Model	kW	型号 Model	kW	型号 Model			kW	型号 Model	kW	型号 Model	kW	型号 Model		
40-25-200	A	11.5	49	7.5	132S2-2	15	160M2-2	5.8	12	1.1	90S-4	1.1	90S-4	1.5	90L-4		
	B	10.5	42	5.5	132S1-2	11	160M1-2	5.4	11	1.1	90S-4	1.1	90S-4	1.5	90L-4		
	C	9	36	4	112M-2	7.5	132S2-2	4.6	8.5	1.1	90S-4	1.1	90S-4	1.1	90S-4		
	D	7.5	28	3	100L-2	4	112M-2	5.5	132S1-2	4	6.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
50-25-250	A	11.5	80	15	160M2-2	18.5	160L-2	30	300L1-2	8	17	3	100L2-4	4	112M-4	5.5	132S-4
	B	9.5	67	15	160M2-2	18.5	160L-2	22	180M-2	7	16.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	8.8	50	11	160M1-2	15	160M2-2	18.5	160L-2	6.5	12	3	100L2-4	4	112M-4	5.5	132S-4
	D	8.5	30	7.5	132S2-2	11	160M1-2	15	160M2-2	6	6.5	2.2	100L1-4	3	100L2-4	4	112M-4
50-25-315	A	21	128	45	225M-2	55	250M-2	75	280S-2	9.6	32	7.5	132M-4	11	160M-4	15	160L-4
	B	18	115	37	200L2-2	55	250M-2	75	280S-2	8.5	30	5.5	132S-4	11	160M-4	15	160L-4
	C	16	100	37	200L2-2	45	225M-2	55	250M-2	7.5	25	5.5	132S-4	7.5	132M-4	11	160M-4
	D	14	90	30	300L1-2	45	225M-2	55	250M-2	7	22	5.5	132S-4	7.5	132M-4	11	160M-4
80-40-160	A	28	33	7.5	132S2-2	11	160M1-2	15	160M2-2	14	8	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	B	25.5	29	7.5	132S2-2	11	160M1-2	15	160M2-2	13	7	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	C	22	22	5.5	132S1-2	7.5	132S2-2	11	160M1-2	11	5.5	1.1	90S-4	1.1	90S-4	1.5	90L-4
	D	20	16	4	112M-2	4	112M-2	7.5	132S2-2	9.5	4.5	1.1	90S-4	1.1	90S-4	1.1	90S-4

(续)

型号 Model	叶型	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min										
		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84				
		Head	配套电机功率及型号 Motor power and model								Capadth	Head	配套电机功率及型号 Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model			
80-40-200	A	29	53	15	160M2-2	18.5	160L-2	22	180M-2	14.5	13	2.2	100L1-4	2.2	100L1-4	4	112M-4			
	B	26	47	11	160M1-2	15	160M2-2	22	180M-2	13	11.5	1.5	90L-4	2.2	100L1-4	3	100L2-4			
	C	22	39	11	160M1-2	11	160M1-2	15	160M2-2	11.5	9	1.1	90S-4	1.5	90L-4	2.2	100L1-4			
	D	18	20	7.5	132S2-2	11	160M1-2	15	160M2-2	9.5	7	1.1	90S-4	1.1	90S-4	1.5	90L-4			
80-40-250	A	32	78	22	180M-2	30	300L1-2	37	200L2-2	16	19.5	3	100L2-4	4	112M-4	5.5	132S-4			
	B	30	72	22	180M-2	30	300L1-2	37	200L2-2	15	18	3	100L2-4	4	112M-4	5.5	132S-4			
	C	24	60	15	160M2-2	18.5	160L-2	30	300L1-2	12.5	14	2.2	100L1-4	3	100L2-4	4	112M-4			
	D	21	47	11	160M1-2	15	160M2-2	18.5	160L-2	10.5	11	1.5	90L-4	2.2	100L1-4	3	100L2-4			
80-40-315	A	42	115	45	225M-2	75	280S-2	90	280M-2	21	29	7.5	132M-4	11	160M-4	15	160L-4			
	B	40	107	45	225M-2	55	250M-2	75	280S-2	20	26.5	7.5	132M-4	11	160M-4	15	160L-4			
	C	34	81	30	300L1-2	45	225M-2	55	250M-2	17.5	20	5.5	132S-4	7.5	132M-4	11	160M-4			
	D	29	61	22	180M-2	30	300L1-2	37	200L2-2	15	15	4	112M-4	5.5	132S-4	7.5	132M-4			
80-40-400	A	42.5	156	75	280S-2	90	280M-2	132	315M-2	21	39	11	160M-4	15	160L-4	18.5	180M-4			
	B	42	126	55	250M-2	75	280S-2	110	315S-2	20	32	11	160M-4	11	160M-4	15	160L-4			
	C	40	110	55	250M-2	75	280S-2	90	280M-2	19	28	7.5	132M-4	11	160M-4	15	160L-4			
	D	37.5	82	37	200L2-2	55	250M-2	75	280S-2	18	20.5	5.5	132S-4	7.5	132M-4	11	160M-4			
80-50-160	A	50	34	15	160M2-2	18.5	160L-2	22	180M-2	25	8.4	1.5	90L-4	2.2	100L1-4	3	100L2-4			
	B	45	29	11	160M1-2	15	160M2-2	18.5	160L-2	22.5	7	1.5	90L-4	2.2	100L1-4	3	100L2-4			
	C	38	22	7.5	132S2-2	11	160M1-2	15	160M2-2	19	5.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4			
	D	31	17	5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4	1.1	90S-4	1.1	90S-4	1.5	90L-4			
80-50-200	A	62	52	22	180M-2	30	300L1-2	37	200L2-2	31	13	3	100L2-4	4	112M-4	5.5	132S-4			
	B	56	46	18.5	160L-2	22	180M-2	30	300L1-2	28.5	11.5	3	100L2-4	4	112M-4	5.5	132S-4			
	C	49	37	15	160M2-2	18.5	160L-2	22	180M-2	25	9	2.2	100L1-4	3	100L2-4	4	112M-4			
	D	43	28	11	160M1-2	15	160M2-2	18.5	160L-2	22	7	1.5	90L-4	2.2	100L1-4	3	100L2-4			
80-50-250	A	70	82	37	200L2-2	45	225M-2	75	280S-2	35	20	5.5	132S-4	7.5	132M-4	11	160M-4			
	B	66	75	37	200L2-2	45	225M-2	55	250M-2	33	18.5	5.5	132S-4	7.5	132M-4	11	160M-4			
	C	60	60	30	300L1-2	37	200L2-2	45	225M-2	30	15	4	112M-4	5.5	132S-4	7.5	132M-4			
	D	50	45	18.5	160L-2	22	180M-2	30	300L1-2	26	11	3	100L2-4	4	112M-4	5.5	132S-4			
100-50-315	A	87	115	75	280S-2	90	280M-2	132	315M-2	44	28	15	160L-4	15	160L-4	18.5	180M-4			
	B	80	100	55	250M-2	75	280S-2	110	315S-2	40	24	11	160M-4	15	160L-4	18.5	180M-4			
	C	70	78	45	225M-2	55	250M-2	75	280S-2	35	19	7.5	132M-4	11	160M-4	15	160L-4			
	D	57	57	30	300L1-2	37	200L2-2	55	250M-2	30	14	4	112M-4	5.5	132S-4	7.5	132M-4			
100-50-400	A	82	194	132	315M-2					41	48	22	180L-4	30	200L-4	37	225S-4			
	B	78	175	132	315M-2	160	315L1-2			39	43	18.5	180M-4	22	180L-4	30	200L-4			
	C	70	140	90	280M-2	132	315M-2	160	315L1-2	35	34	15	160L-4	18.5	180M-4	22	180L-4			
	D	60	102	75	280S-2	90	280M-2	132	315M-2	30	25	11	160M-4	15	160L-4	18.5	180M-4			

(续)

型号 Model	Impeller	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min											
		流量 扬程		比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		流量 扬程		比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84					
		Capacity	Head	配套电机功率及型号 Motor power and model								Capacity	Head	配套电机功率及型号 Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model		
100-80-160	A	94	32	18.5	160L-2	22	180M-2	37	200L2-2	47	8	2.2	100L1-4	3	100L2-4	4	112M-4				
	B	85	28	15	160M2-2	18.5	160L-2	30	300L1-2	42	7	2.2	100L1-4	3	100L2-4	4	112M-4				
	C	76	23	15	160M2-2	15	160M2-2	18.5	160L-2	38	5.5	1.5	90L-4	2.2	100L1-4	3	100L2-4				
	D	66	17	7.5	132S2-2	11	160M1-2	15	160M2-2	34	4	1.1	90S-4	1.5	90L-4	2.2	100L1-4				
100-80-200	A	103	54	37	200L2-2	45	225M-2	55	250M-2	51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	B	95	48	30	300L1-2	37	200L2-2	45	225M-2	47	12	4	112M-4	5.5	132S-4	7.5	132M-4				
	C	84	38	18.5	160L-2	30	300L1-2	37	200L2-2	41	9.5	3	100L2-4	4	112M-4	5.5	132S-4				
	D	70	30	15	160M2-2	18.5	160L-2	30	300L1-2	36	7.5	2.2	100L1-4	3	100L2-4	4	112M-4				
100-80-250	A	127	82	55	250M-2	90	280M-2	110	315S-2	64	20	7.5	132M-4	11	160M-4	15	160L-4				
	B	120	76	55	250M-2	75	280S-2	90	280M-2	60	19	7.5	132M-4	11	160M-4	15	160L-4				
	C	105	59	37	200L2-2	55	250M-2	75	280S-2	52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	D	87	45	30	300L1-2	37	200L2-2	45	225M-2	46	11	4	112M-4	5.5	132S-4	7.5	132M-4				
100-80-315	A	141	127	110	315S-2	132	315M-2			70	33	18.5	180M-4	22	180L-4	30	200L-4				
	B	135	121	90	280M-2	132	315M-2	160	315L1-2	66	30	15	160L-4	18.5	180M-4	30	200L-4				
	C	115	97	75	280S-2	90	280M-2	132	315M-2	56	24	15	160L-4	15	160L-4	18.5	180M-4				
	D	90	74	45	225M-2	55	250M-2	90	280M-2	45	18	7.5	132M-4	11	160M-4	15	160L-4				
100-80-400	A	171	187							85	46	30	200L-4	37	225S-4	55	250M-4				
	B	159	170							80	42	30	200L-4	37	225S-4	45	225M-4				
	C	135	130	132	315M-2	160	315L1-2			65	33	18.5	180M-4	30	200L-4	37	225S-4				
	D	116	95	90	280M-2	110	315S-2	160	315L1-2	53	25	15	160L-4	18.5	180M-4	30	200L-4				
100-100-160	A	162	29	30	300L1-2	37	200L2-2	45	225M-2	81	7.2	3	100L2-4	5.5	132S-4	7.5	132M-4				
	B	150	24	18.5	160L-2	30	300L1-2	37	200L2-2	73	6	3	100L2-4	4	112M-4	5.5	132S-4				
	C	130	17	15	160M2-2	18.5	160L-2	22	180M-2	63	4.3	2.2	100L1-4	4	112M-4	4	112M-4				
	D	110	12	11	160M1-2	15	160M2-2	18.5	160L-2	55	3	1.5	90L-4	2.2	100L1-4	3	100L2-4				
100-100-200	A	193	50	55	250M-2	75	280S-2	90	280M-2	95	12.5	7.5	132M-4	7.5	132M-4	11	160M-4				
	B	180	44	45	225M-2	55	250M-2	75	280S-2	90	10.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	C	155	35	37	200L2-2	45	225M-2	55	250M-2	80	8.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	D	135	26	22	180M-2	30	300L1-2	37	200L2-2	70	6	3	100L2-4	4	112M-4	5.5	132S-4				
150-100-250	A	230	79	90	280M-2	110	315S-2	160	315L1-2	115	20	15	160L-4	18.5	180M-4	22	180L-4				
	B	218	73	90	280M-2	110	315S-2	132	315M-2	110	18	11	160M-4	15	160L-4	18.5	180M-4				
	C	190	58	55	250M-2	75	280S-2	110	315S-2	100	14	7.5	132M-4	11	160M-4	15	160L-4				
	D	170	44	45	225M-2	55	250M-2	90	280M-2	90	10	5.5	132S-4	7.5	132M-4	11	160M-4				
150-100-315	A	250	126	160	315L1-2					125	31	22	180L-4	37	225S-4	45	225M-4				
	B	240	120	160	315L1-2					119	29	22	180L-4	30	200L-4	37	225S-4				
	C	203	97	110	315S-2	160	315L1-2			104	24	18.5	180M-4	22	180L-4	30	200L-4				
	D	170	71	90	280M-2	110	315S-2	132	315M-2	86	17.5	15	160L-4	15	160L-4	18.5	180M-4				

(续)

型号 Model	O	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min											
		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84					
		Head		配套电机功率及型号 Motor power and model								Head		配套电机功率及型号 Motor power and model							
		m³/h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m³/h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model				
150-100-400	A	300	194							150	48	45	225M-4	55	250M-4	90	280M-4				
	B	290	180							145	44	37	225S-4	55	250M-4	75	280S-4				
	C	260	145							130	36	30	200L-4	37	225S-4	55	250M-4				
	D	224	105	160	315L1-2					115	26	22	180L-4	30	200L-4	37	225S-4				
150-100-500	A									180	75	90	280M-4	110	315S-4	132	315M-4				
	B									167	68	75	280S-4	90	280M-4	132	315M-4				
	C									142	53	55	250M-4	75	280S-4	90	280M-4				
	D									120	42	37	225S-4	45	225M-4	75	280S-4				
150-150-200	A	320	44	75	280S-2	90	280M-2			160	11	11	160M-4	15	160L-4	18.5	180M-4				
	B	300	39	55	250M-2	90	280M-2	110	315S-2	152	9.5	11	160M-4	15	160L-4	18.5	180M-4				
	C	265	30	45	225M-2	55	250M-2	90	280M-2	140	7	7.5	132M-4	11	160M-4	15	160L-4				
	D	220	23	30	300L1-2	45	225M-2	55	250M-2	123	5	4	112M-4	5.5	132S-4	7.5	132M-4				
150-150-250	A	390	74	132	315M-2					195	18.5	18.5	180M-4	30	200L-4	37	225S-4				
	B	355	62	110	315S-2	160	315L1-2			180	16	18.5	180M-4	22	180L-4	30	200L-4				
	C	325	46	90	280M-2	132	315M-2	160	315L1-2	160	11.5	15	160L-4	F15	160L-4	18.5	180M-4				
	D																				
150-150-315	A	442	125							220	32.5	37	225S-4	55	250M-4	75	280S-4				
	B	430	120							210	30	37	225S-4	45	225M-4	75	280S-4				
	C	372	94							180	24	30	200L-4	37	225S-4	45	225M-4				
	D	310	68	132	315M-2	160	315L1-2			150	17	18.5	180M-4	22	180L-4	30	200L-4				
150-150-400	A									260	51	75	280S-4	90	280M-4	132	315M-4				
	B									250	48	75	280S-4	90	280M-4	110	315S-4				
	C									225	38	45	225M-4	75	280S-4	90	280M-4				
	D									200	28	37	225S-4	45	225M-4	75	280S-4				
200-200-250	A	610	72							305	17.5	30	200L-4	37	225S-4	55	250M-4				
	B	580	65							290	16	22	180L-4	37	225S-4	45	225M-4				
	C	520	47	132	315M-2	160	315L1-2			260	12	18.5	180M-4	22	180L-4	37	225S-4				
	D	470	32	90	280M-2	110	315S-2	132	315M-2	240	8	15	160L-4	18.5	180M-4	18.5	180M-4				
200-200-315	A	710	122							350	30	55	250M-4	75	280S-4	90	280M-4				
	B	680	114							340	29	45	225M-4	75	280S-4	90	280M-4				
	C	600	87							300	22	37	225S-4	45	225M-4	75	280S-4				
	D	480	65	160	315L1-2					250	15	22	180L-4	30	200L-4	37	225S-4				
200-200-400	A									426	50	110	315S-4	132	315M-4						
	B									410	47	90	280M-4	132	315M-4	160	315L1-4				
	C									370	36.5	75	280S-4	90	280M-4	132	315M-4				
	D									332	27	55	250M-4	75	280S-4	90	280M-4				

注：表中有流量、扬程值，而无功率值的泵、其功率超过160kW,需订货时确定。

Note: In this table, there are flow and head, but if the pump has no power value, or the power out of 160kW, must be determined when ording.



## Chemical Magnetic Pump No-Sealing Magnetic Drive Circulation Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>z</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

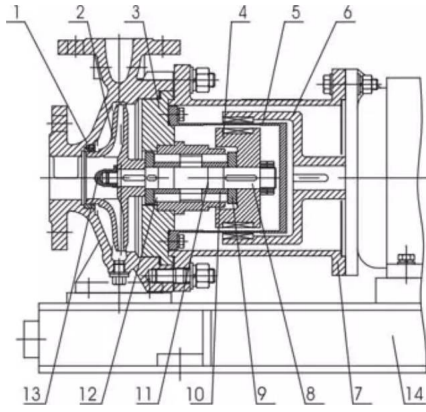
### Product Description

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

直联式  
MONOBLOCK TYPE

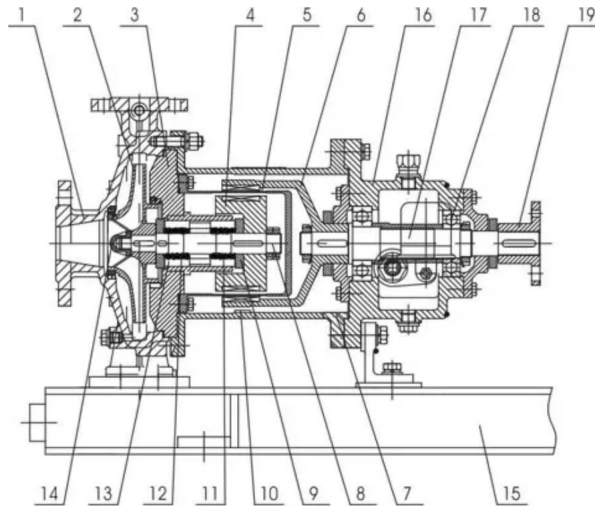


- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12 滑动轴承 Slide bearing
- 13 叶轮螺母 Impell nut
- 14 底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125		50	20		3.8
MDP80-65-160	32		3.5	15	
MDP80-50-200	50		3.5	18.5	
MDP80-50-250	80		3.5	37	
MDP80-50-315	125		3.5	45	
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132



分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## for Caustic Soda Potassium Hydroxide Centrifugal Chemical Magnetic Pumps

The MDPA Magnetic Drive Oil Chemical Process Pump is the new type of pump that developed by Tengyu that has the domestic leading level. Compared with mechanically sealed ZA/ZE oil chemical process pump, MDPA pump has many incomparable advantages and provides a better choice for leak-free occasions in chemical process.

### Product Description

The MDPA adopts integrated planning design, the high level of generalization and serialization leads to easy interchangeability of parts. The hydraulic components are designed according to the

excellent hydraulic model in Europe. The new structure curve has no hump and the performance is stable. MDPA has very good cavitation resistance and greatly improved efficiency compared to other similar products on market. The MDPA pump is designed according to API610/API685 and other standards, it has unique advantages in petrochemical industry with high reliability and easy maintenance.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

## MATERIAL SELECTION

根据输送介质，使用工况及用户要求可选用：CS，1Cr13、0Cr18Ni9(304)x 0Cr18Ni12Mo2Ti(316)、钛合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be choosed according different medium and work condition.

## PERFORMANCE RANGE

口径: DN25 ~ DN200mm

流量: 4~300m³/h

扬程: < 194m

转速: 2900r/min; 1450r/min

工作温度: < 175°C(MDPA); ≥ 35°C(MDPE)

粘度: < 100mm²/s

压力: ≥ 2.5Mpa(MDPA); ≤ 5.0Mpa(MDPE)

电机功率: 1.1~160kW

Caliber: DN25-DN200mm

Capacity: 4 ~ 300m³/h

Head: < 194m

Rotate speed: 2900r/min; 1450r/min

Work temperature: < 175°C(MDPA); ≥ 35°C(MDPE)

Viscosity: < 100mm²/s

Pressure: ≥ 2.5Mpa(MDPA); ≤ 5.0Mpa(MDPE)

Motor power: 1.1 ~ 160kW

## PERFORMANCE PARAMETER

型号 Model	叶轮 型式 Impeller	额定转速 Rating rotate speed n=2900r/min							浪涌 额定转速 Rating rotate speed n=1450r/min								
		流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84	流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84
		Capacity	Head	配套电机功率及型号 Motor power and model													
		m³/h	m	kW	型号 Model	型号 Model	型号 Model	型号 Model	型号 Model	m³/h	m	kW	型号 Model	型号 Model	型号 Model	型号 Model	型号 Model
40-25-200	A	11.5	49	7.5	132S2-2	J1	15	160M2-2	5.8	12	1.1	90S-4	1.1	90S-4	1.5	90L-4	
	B	10.5	42	5.5	132S1-2	75	132S2-2	11	160M1-2	5.4	11	1.1	90S-4	1.1	90S-4	1.5	90L-4
	C	9	36	4	112M-2		132S1-2	7.5	132S2-2	4.6	8.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
	D	7.5	28	3	100L-2	4	112M-2	5.5	132S1-2	4	6.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
50-25-250	A	11.5	80	15	160M2-2	18.5	160L-2	30	300L1-2	8	17	3	100L2-4	4	112M-4	5.5	132S-4
	B	9.5	67	15	160M2-2	18.5	160L-2	22	180M-2	7	16.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	8.8	50	11	160M1-2	15	160M2-2	18.5	160L-2	6.5	12	3	100L2-4	4	112M-4	5.5	132S-4
	D	8.5	30	7.5	132S2-2	11	160M1-2	15	160M2-2	6	6.5	2.2	100L1-4	3	100L2-4	4	112M-4
50-25-315	A	21	128	45	225M-2	55	250M-2	75	280S-2	9.6	32	7.5	132M-4	11	160M-4	15	160L-4
	B	18	115	37	200L2-2	55	250M-2	75	280S-2	8.5	30	5.5	132S-4	11	160M-4	15	160L-4
	C	16	100	37	200L2-2	45	225M-2	55	250M-2	7.5	25	5.5	132S-4	7.5	132M-4	11	160M-4
	D	14	90	30	300L1-2	45	225M-2	55	250M-2	7	22	5.5	132S-4	7.5	132M-4	11	160M-4
80-40-160	A	28	33	7.5	132S2-2	11	160M1-2	15	160M2-2	14	8	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	B	25.5	29	7.5	132S2-2	11	160M1-2	15	160M2-2	13	7	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	C	22	22	5.5	132S1-2	7.5	132S2-2	11	160M1-2	11	5.5	1.1	90S-4	1.1	90S-4	1.5	90L-4
	D	20	16	4	112M-2	4	112M-2	7.5	132S2-2	9.5	4.5	1.1	90S-4	1.1	90S-4	1.1	90S-4

(续)

型号 Model	叶型	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min												
		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84						
		Head		配套电机功率及型号 Motor power and model								Capacity	Head		配套电机功率及型号 Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model			
80-40-200	A	29	53	15	160M2-2	18.5	160L-2	22	180M-2	14.5	13	2.2	100L1-4	2.2	100L1-4	4	112M-4					
	B	26	47	11	160M1-2	15	160M2-2	22	180M-2	13	11.5	1.5	90L-4	2.2	100L1-4	3	100L2-4					
	C	22	39	11	160M1-2	11	160M1-2	15	160M2-2	11.5	9	1.1	90S-4	1.5	90L-4	2.2	100L1-4					
	D	18	20	7.5	132S2-2	11	160M1-2	15	160M2-2	9.5	7	1.1	90S-4	1.1	90S-4	1.5	90L-4					
80-40-250	A	32	78	22	180M-2	30	300L1-2	37	200L2-2	16	19.5	3	100L2-4	4	112M-4	5.5	132S-4					
	B	30	72	22	180M-2	30	300L1-2	37	200L2-2	15	18	3	100L2-4	4	112M-4	5.5	132S-4					
	C	24	60	15	160M2-2	18.5	160L-2	30	300L1-2	12.5	14	2.2	100L1-4	3	100L2-4	4	112M-4					
	D	21	47	11	160M1-2	15	160M2-2	18.5	160L-2	10.5	11	1.5	90L-4	2.2	100L1-4	3	100L2-4					
80-40-315	A	42	115	45	225M-2	75	280S-2	90	280M-2	21	29	7.5	132M-4	11	160M-4	15	160L-4					
	B	40	107	45	225M-2	55	250M-2	75	280S-2	20	26.5	7.5	132M-4	11	160M-4	15	160L-4					
	C	34	81	30	300L1-2	45	225M-2	55	250M-2	17.5	20	5.5	132S-4	7.5	132M-4	11	160M-4					
	D	29	61	22	180M-2	30	300L1-2	37	200L2-2	15	15	4	112M-4	5.5	132S-4	7.5	132M-4					
80-40-400	A	42.5	156	75	280S-2	90	280M-2	132	315M-2	21	39	11	160M-4	15	160L-4	18.5	180M-4					
	B	42	126	55	250M-2	75	280S-2	110	315S-2	20	32	11	160M-4	11	160M-4	15	160L-4					
	C	40	110	55	250M-2	75	280S-2	90	280M-2	19	28	7.5	132M-4	11	160M-4	15	160L-4					
	D	37.5	82	37	200L2-2	55	250M-2	75	280S-2	18	20.5	5.5	132S-4	7.5	132M-4	11	160M-4					
80-50-160	A	50	34	15	160M2-2	18.5	160L-2	22	180M-2	25	8.4	1.5	90L-4	2.2	100L1-4	3	100L2-4					
	B	45	29	11	160M1-2	15	160M2-2	18.5	160L-2	22.5	7	1.5	90L-4	2.2	100L1-4	3	100L2-4					
	C	38	22	7.5	132S2-2	11	160M1-2	15	160M2-2	19	5.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4					
	D	31	17	5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4	1.1	90S-4	1.1	90S-4	1.5	90L-4					
80-50-200	A	62	52	22	180M-2	30	300L1-2	37	200L2-2	31	13	3	100L2-4	4	112M-4	5.5	132S-4					
	B	56	46	18.5	160L-2	22	180M-2	30	300L1-2	28.5	11.5	3	100L2-4	4	112M-4	5.5	132S-4					
	C	49	37	15	160M2-2	18.5	160L-2	22	180M-2	25	9	2.2	100L1-4	3	100L2-4	4	112M-4					
	D	43	28	11	160M1-2	15	160M2-2	18.5	160L-2	22	7	1.5	90L-4	2.2	100L1-4	3	100L2-4					
80-50-250	A	70	82	37	200L2-2	45	225M-2	75	280S-2	35	20	5.5	132S-4	7.5	132M-4	11	160M-4					
	B	66	75	37	200L2-2	45	225M-2	55	250M-2	33	18.5	5.5	132S-4	7.5	132M-4	11	160M-4					
	C	60	60	30	300L1-2	37	200L2-2	45	225M-2	30	15	4	112M-4	5.5	132S-4	7.5	132M-4					
	D	50	45	18.5	160L-2	22	180M-2	30	300L1-2	26	11	3	100L2-4	4	112M-4	5.5	132S-4					
100-50-315	A	87	115	75	280S-2	90	280M-2	132	315M-2	44	28	15	160L-4	15	160L-4	18.5	180M-4					
	B	80	100	55	250M-2	75	280S-2	110	315S-2	40	24	11	160M-4	15	160L-4	18.5	180M-4					
	C	70	78	45	225M-2	55	250M-2	75	280S-2	35	19	7.5	132M-4	11	160M-4	15	160L-4					
	D	57	57	30	300L1-2	37	200L2-2	55	250M-2	30	14	4	112M-4	5.5	132S-4	7.5	132M-4					
100-50-400	A	82	194	132	315M-2					41	48	22	180L-4	30	200L-4	37	225S-4					
	B	78	175	132	315M-2	160	315L1-2			39	43	18.5	180M-4	22	180L-4	30	200L-4					
	C	70	140	90	280M-2	132	315M-2	160	315L1-2	35	34	15	160L-4	18.5	180M-4	22	180L-4					
	D	60	102	75	280S-2	90	280M-2	132	315M-2	30	25	11	160M-4	15	160L-4	18.5	180M-4					

(续)

型号 Model	Impeller	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min											
		流量 扬程		比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		流量 扬程		比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84					
		Capacity	Head	配套电机功率及型号 Motor power and model								Capacity	Head	配套电机功率及型号 Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model		
100-80-160	A	94	32	18.5	160L-2	22	180M-2	37	200L2-2	47	8	2.2	100L1-4	3	100L2-4	4	112M-4				
	B	85	28	15	160M2-2	18.5	160L-2	30	300L1-2	42	7	2.2	100L1-4	3	100L2-4	4	112M-4				
	C	76	23	15	160M2-2	15	160M2-2	18.5	160L-2	38	5.5	1.5	90L-4	2.2	100L1-4	3	100L2-4				
	D	66	17	7.5	132S2-2	11	160M1-2	15	160M2-2	34	4	1.1	90S-4	1.5	90L-4	2.2	100L1-4				
100-80-200	A	103	54	37	200L2-2	45	225M-2	55	250M-2	51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	B	95	48	30	300L1-2	37	200L2-2	45	225M-2	47	12	4	112M-4	5.5	132S-4	7.5	132M-4				
	C	84	38	18.5	160L-2	30	300L1-2	37	200L2-2	41	9.5	3	100L2-4	4	112M-4	5.5	132S-4				
	D	70	30	15	160M2-2	18.5	160L-2	30	300L1-2	36	7.5	2.2	100L1-4	3	100L2-4	4	112M-4				
100-80-250	A	127	82	55	250M-2	90	280M-2	110	315S-2	64	20	7.5	132M-4	11	160M-4	15	160L-4				
	B	120	76	55	250M-2	75	280S-2	90	280M-2	60	19	7.5	132M-4	11	160M-4	15	160L-4				
	C	105	59	37	200L2-2	55	250M-2	75	280S-2	52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	D	87	45	30	300L1-2	37	200L2-2	45	225M-2	46	11	4	112M-4	5.5	132S-4	7.5	132M-4				
100-80-315	A	141	127	110	315S-2	132	315M-2			70	33	18.5	180M-4	22	180L-4	30	200L-4				
	B	135	121	90	280M-2	132	315M-2	160	315L1-2	66	30	15	160L-4	18.5	180M-4	30	200L-4				
	C	115	97	75	280S-2	90	280M-2	132	315M-2	56	24	15	160L-4	15	160L-4	18.5	180M-4				
	D	90	74	45	225M-2	55	250M-2	90	280M-2	45	18	7.5	132M-4	11	160M-4	15	160L-4				
100-80-400	A	171	187							85	46	30	200L-4	37	225S-4	55	250M-4				
	B	159	170							80	42	30	200L-4	37	225S-4	45	225M-4				
	C	135	130	132	315M-2	160	315L1-2			65	33	18.5	180M-4	30	200L-4	37	225S-4				
	D	116	95	90	280M-2	110	315S-2	160	315L1-2	53	25	15	160L-4	18.5	180M-4	30	200L-4				
100-100-160	A	162	29	30	300L1-2	37	200L2-2	45	225M-2	81	7.2	3	100L2-4	5.5	132S-4	7.5	132M-4				
	B	150	24	18.5	160L-2	30	300L1-2	37	200L2-2	73	6	3	100L2-4	4	112M-4	5.5	132S-4				
	C	130	17	15	160M2-2	18.5	160L-2	22	180M-2	63	4.3	2.2	100L1-4	4	112M-4	4	112M-4				
	D	110	12	11	160M1-2	15	160M2-2	18.5	160L-2	55	3	1.5	90L-4	2.2	100L1-4	3	100L2-4				
100-100-200	A	193	50	55	250M-2	75	280S-2	90	280M-2	95	12.5	7.5	132M-4	7.5	132M-4	11	160M-4				
	B	180	44	45	225M-2	55	250M-2	75	280S-2	90	10.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	C	155	35	37	200L2-2	45	225M-2	55	250M-2	80	8.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	D	135	26	22	180M-2	30	300L1-2	37	200L2-2	70	6	3	100L2-4	4	112M-4	5.5	132S-4				
150-100-250	A	230	79	90	280M-2	110	315S-2	160	315L1-2	115	20	15	160L-4	18.5	180M-4	22	180L-4				
	B	218	73	90	280M-2	110	315S-2	132	315M-2	110	18	11	160M-4	15	160L-4	18.5	180M-4				
	C	190	58	55	250M-2	75	280S-2	110	315S-2	100	14	7.5	132M-4	11	160M-4	15	160L-4				
	D	170	44	45	225M-2	55	250M-2	90	280M-2	90	10	5.5	132S-4	7.5	132M-4	11	160M-4				
150-100-315	A	250	126	160	315L1-2					125	31	22	180L-4	37	225S-4	45	225M-4				
	B	240	120	160	315L1-2					119	29	22	180L-4	30	200L-4	37	225S-4				
	C	203	97	110	315S-2	160	315L1-2			104	24	18.5	180M-4	22	180L-4	30	200L-4				
	D	170	71	90	280M-2	110	315S-2	132	315M-2	86	17.5	15	160L-4	15	160L-4	18.5	180M-4				

(续)

型号 Model	Impeller Capacity	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min											
		流量	扬程	比重 S.G.r=1		比重S.G.r=1.35		比重S.G.r=1.84		流量	扬程	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84					
		Capacity	Head	配套电机功率及型号Motor power and model								Capacit	Head	配套电机功率及型号Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model				
150-100-400	A	300	194							150	48	45	225M-4	55	250M-4	90	280M-4				
	B	290	180							145	44	37	225S-4	55	250M-4	75	280S-4				
	C	260	145							130	36	30	200L-4	37	225S-4	55	250M-4				
	D	224	105	160	315L1-2					115	26	22	180L-4	30	200L-4	37	225S-4				
150-100-500	A									180	75	90	280M-4	110	315S-4	132	315M-4				
	B									167	68	75	280S-4	90	280M-4	132	315M-4				
	C									142	53	55	250M-4	75	280S-4	90	280M-4				
	D									120	42	37	225S-4	45	225M-4	75	280S-4				
150-150-200	A	320	44	75	280S-2	90	280M-2			160	11	11	160M-4	15	160L-4	18.5	180M-4				
	B	300	39	55	250M-2	90	280M-2	110	315S-2	152	9.5	11	160M-4	15	160L-4	18.5	180M-4				
	C	265	30	45	225M-2	55	250M-2	90	280M-2	140	7	7.5	132M-4	11	160M-4	15	160L-4				
	D	220	23	30	300L1-2	45	225M-2	55	250M-2	123	5	4	112M-4	5.5	132S-4	7.5	132M-4				
150-150-250	A	390	74	132	315M-2					195	18.5	18.5	180M-4	30	200L-4	37	225S-4				
	B	355	62	110	315S-2	160	315L1-2			180	16	18.5	180M-4	22	180L-4	30	200L-4				
	C	325	46	90	280M-2	132	315M-2	160	315L1-2	160	11.5	15	160L-4	15	160L-4	18.5	180M-4				
	D																				
150-150-315	A	442	125							220	32.5	37	225S-4	55	250M-4	75	280S-4				
	B	430	120							210	30	37	225S-4	45	225M-4	75	280S-4				
	C	372	94							180	24	30	200L-4	37	225S-4	45	225M-4				
	D	310	68	132	315M-2	160	315L1-2			150	17	18.5	180M-4	22	180L-4	30	200L-4				
150-150-400	A									260	51	75	280S-4	90	280M-4	132	315M-4				
	B									250	48	75	280S-4	90	280M-4	110	315S-4				
	C									225	38	45	225M-4	75	280S-4	90	280M-4				
	D									200	28	37	225S-4	45	225M-4	75	280S-4				
200-200-250	A	610	72							305	17.5	30	200L-4	37	225S-4	55	250M-4				
	B	580	65							290	16	22	180L-4	37	225S-4	45	225M-4				
	C	520	47	132	315M-2	160	315L1-2			260	12	18.5	180M-4	22	180L-4	37	225S-4				
	D	470	32	90	280M-2	110	315S-2	132	315M-2	240	8	15	160L-4	18.5	180M-4	18.5	180M-4				
200-200-315	A	710	122							350	30	55	250M-4	75	280S-4	90	280M-4				
	B	680	114							340	29	45	225M-4	75	280S-4	90	280M-4				
	C	600	87							300	22	37	225S-4	45	225M-4	75	280S-4				
	D	480	65	160	315L1-2					250	15	22	180L-4	30	200L-4	37	225S-4				
200-200-400	A									426	50	110	315S-4	132	315M-4						
	B									410	47	90	280M-4	132	315M-4	160	315L1-4				
	C									370	36.5	75	280S-4	90	280M-4	132	315M-4				
	D									332	27	55	250M-4	75	280S-4	90	280M-4				

注：表中有流量、扬程值，而无功率值的泵、其功率超过160kW,需订货时确定。

Note: In this table, there are flow and head, but if the pump has no power value, or the power out of 160kW, must be determined when ording.





## No Leakage Chemical Horizontal Flammable Anti-Corrosion Liquid Centrifugal Stainless Steel Acid Alkali Resistant Magdrive Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>z</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

### Product Description

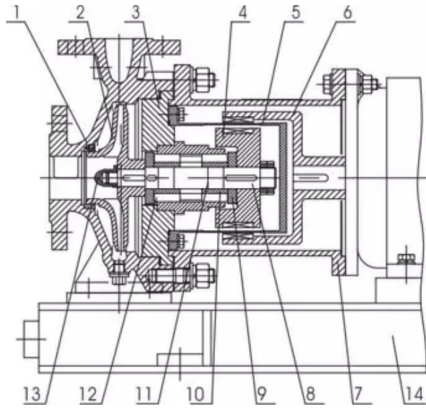
As the second generation product of the CQ magnetic drive pump<sub>z</sub>, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed

of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

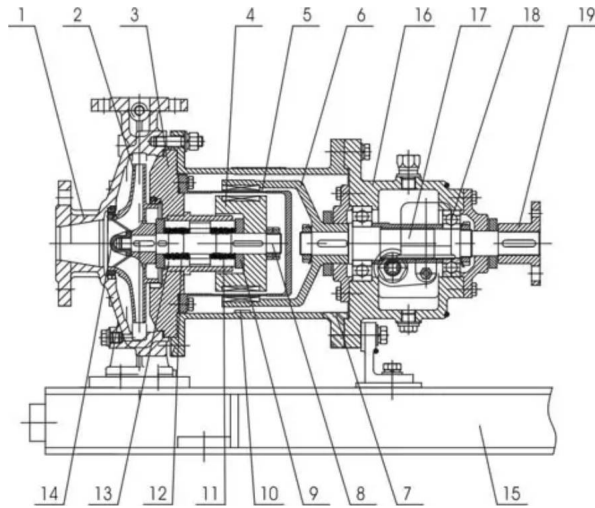
直联式  
MONOBLOCK TYPE



- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母 Impell nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132

分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## SS304 Single-Stage, Single-Suction OH1 OH2 Magnetic Pump

### Product Description:

The MDPE Magnetic Drive Oil Chemical Process Pump is the new type of pump that developed by Tengyu that has the domestic leading level. Compared with mechanically sealed ZA/ZE oil chemical process pump, MDPE pump has many incomparable advantages and provides a better choice for leak-free occasions in chemical process.

The MDPE adopts integrated planning design, the high level of generalization and serialization leads to easy interchangeability of parts. The hydraulic components are designed according to the excellent hydraulic model in Europe. The new structure

curve has no hump and the performance is stable. MDPE has very good cavitation resistance and greatly improved efficiency compared to other similar products on market. The MDPE pump is designed according to API610/API685 and other standards, it has unique advantages in petrochemical industry with high reliability and easy maintenance

## Product Description

### **Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

### **Typical Uses:**

The wearing part of MDPE series pump is stainless steel, the pump can be used to transfer not only water, but also corrosive medium, expensive liquid or the other physical and chemical medium. The medium temperature should be less or equal to 350°C. This product is widely apply to:

Chemical Industry	Petroleum Industry	Pharmaceutical Industry
Biological Industry	Nuclear Power Plant	Nonferrous Metal
Food Industry	Automotive Industry	Municipal Water Supply



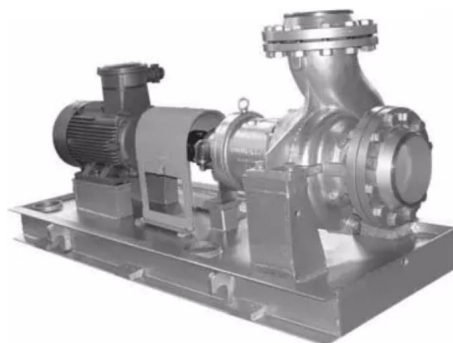
## GENERAL

MDPA\MDPE磁力传动石化流程泵是我公司最新开发研制的具有国内领先水平的一种新型泵。相比机械密封的ZANZE石化流程泵具有许多无可比拟的优势，为化工流程中的无泄漏场合提供了更好的选择。

产品采取整体规划的设计，通用化、系列化程度高，使得零件互换性较好。水力部件参照欧洲优秀的水力模型，运用计算机辅助设计进行优化设计，结构新颖特性曲线无驼峰，性能稳定。泵的抗汽蚀性能良好，效率与同类产品相比也有较大提高。产品参照API610\API685等标准进行规范设计，可靠性高、维护方便，在石油化工行业具有独特的优势。

The MDP\MDPE type magnetic drive oil chemical process pump is the new series which our company design and have the leading position in the internal.

Steady function, have good ability to resist cavitation erosion, more efficient than other pumps. The products are developed according to API610\API685. They have high reliability, convenience to maintain. and They have the advantages in petrol chemical field.



## APPLIED RANGE

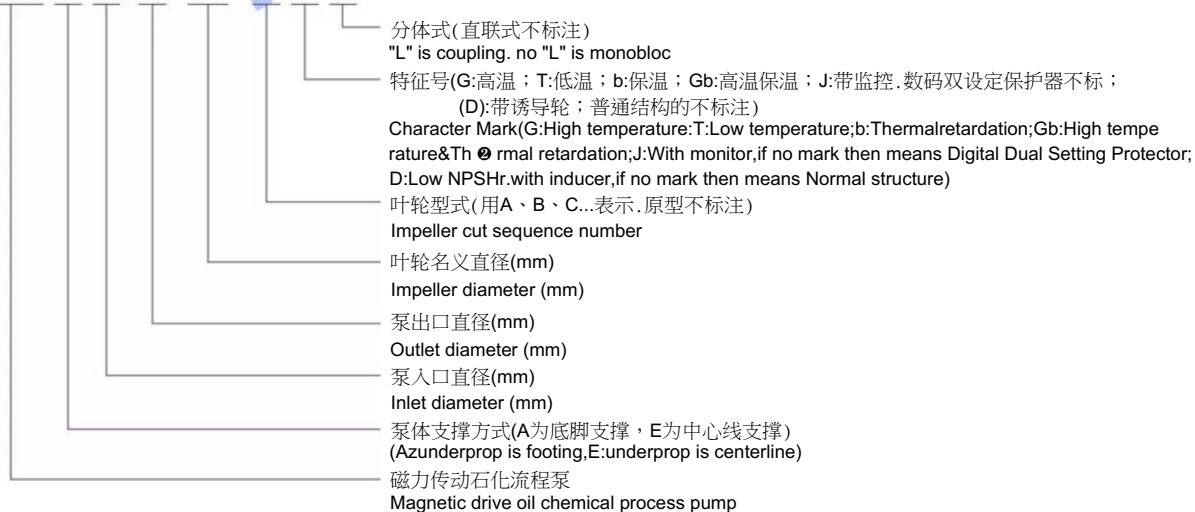
MDPA\MDPE磁力传动石化流程泵可广泛适用于石油、化工，生物制药、生物工程，核电站等各领域的生产流程中输送不含固体颗粒、比重不大于1.84的清洁液体，特别适用于易燃、易爆、有毒、有害、有腐蚀性及贵重液的介质输送。

The pump can be widely used in chemical industry, petrochemical industry, Pharmaceuticals, bioengineering, nuclear power station, etc. the liquid should be not include the particle (S.G.C 1.84). And it is special for pumping the inflammable, explosive, poisonous, deleterious, mordant and expansive liquid.

## MEANING OF THE MODEL

例: MDP A 80-40-160 A G L

EX:



(续)

型号 Model	叶型	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84						
		Head	配套电机功率及型号 Motor power and model							Capacity	Head	配套电机功率及型号 Motor power and model					
	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	
80-40-200	A	29	53	15	160M2-2	18.5	160L-2	22	180M-2	14.5	13	2.2	100L1-4	2.2	100L1-4	4	112M-4
	B	26	47	11	160M1-2	15	160M2-2	22	180M-2	13	11.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	22	39	11	160M1-2	11	160M1-2	15	160M2-2	11.5	9	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	18	20	7.5	132S2-2	11	160M1-2	15	160M2-2	9.5	7	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-40-250	A	32	78	22	180M-2	30	300L1-2	37	200L2-2	16	19.5	3	100L2-4	4	112M-4	5.5	132S-4
	B	30	72	22	180M-2	30	300L1-2	37	200L2-2	15	18	3	100L2-4	4	112M-4	5.5	132S-4
	C	24	60	15	160M2-2	18.5	160L-2	30	300L1-2	12.5	14	2.2	100L1-4	3	100L2-4	4	112M-4
	D	21	47	11	160M1-2	15	160M2-2	18.5	160L-2	10.5	11	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-40-315	A	42	115	45	225M-2	75	280S-2	90	280M-2	21	29	7.5	132M-4	11	160M-4	15	160L-4
	B	40	107	45	225M-2	55	250M-2	75	280S-2	20	26.5	7.5	132M-4	11	160M-4	15	160L-4
	C	34	81	30	300L1-2	45	225M-2	55	250M-2	17.5	20	5.5	132S-4	7.5	132M-4	11	160M-4
	D	29	61	22	180M-2	30	300L1-2	37	200L2-2	15	15	4	112M-4	5.5	132S-4	7.5	132M-4
80-40-400	A	42.5	156	75	280S-2	90	280M-2	132	315M-2	21	39	11	160M-4	15	160L-4	18.5	180M-4
	B	42	126	55	250M-2	75	280S-2	110	315S-2	20	32	11	160M-4	11	160M-4	15	160L-4
	C	40	110	55	250M-2	75	280S-2	90	280M-2	19	28	7.5	132M-4	11	160M-4	15	160L-4
	D	37.5	82	37	200L2-2	55	250M-2	75	280S-2	18	20.5	5.5	132S-4	7.5	132M-4	11	160M-4
80-50-160	A	50	34	15	160M2-2	18.5	160L-2	22	180M-2	25	8.4	1.5	90L-4	2.2	100L1-4	3	100L2-4
	B	45	29	11	160M1-2	15	160M2-2	18.5	160L-2	22.5	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	38	22	7.5	132S2-2	11	160M1-2	15	160M2-2	19	5.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	31	17	5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-50-200	A	62	52	22	180M-2	30	300L1-2	37	200L2-2	31	13	3	100L2-4	4	112M-4	5.5	132S-4
	B	56	46	18.5	160L-2	22	180M-2	30	300L1-2	28.5	11.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	49	37	15	160M2-2	18.5	160L-2	22	180M-2	25	9	2.2	100L1-4	3	100L2-4	4	112M-4
	D	43	28	11	160M1-2	15	160M2-2	18.5	160L-2	22	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-50-250	A	70	82	37	200L2-2	45	225M-2	75	280S-2	35	20	5.5	132S-4	7.5	132M-4	11	160M-4
	B	66	75	37	200L2-2	45	225M-2	55	250M-2	33	18.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	60	60	30	300L1-2	37	200L2-2	45	225M-2	30	15	4	112M-4	5.5	132S-4	7.5	132M-4
	D	50	45	18.5	160L-2	22	180M-2	30	300L1-2	26	11	3	100L2-4	4	112M-4	5.5	132S-4
100-50-315	A	87	115	75	280S-2	90	280M-2	132	315M-2	44	28	15	160L-4	15	160L-4	18.5	180M-4
	B	80	100	55	250M-2	75	280S-2	110	315S-2	40	24	11	160M-4	15	160L-4	18.5	180M-4
	C	70	78	45	225M-2	55	250M-2	75	280S-2	35	19	7.5	132M-4	11	160M-4	15	160L-4
	D	57	57	30	300L1-2	37	200L2-2	55	250M-2	30	14	4	112M-4	5.5	132S-4	7.5	132M-4
100-50-400	A	82	194	132	315M-2					41	48	22	180L-4	30	200L-4	37	225S-4
	B	78	175	132	315M-2	160	315L1-2			39	43	18.5	180M-4	22	180L-4	30	200L-4
	C	70	140	90	280M-2	132	315M-2	160	315L1-2	35	34	15	160L-4	18.5	180M-4	22	180L-4
	D	60	102	75	280S-2	90	280M-2	132	315M-2	30	25	11	160M-4	15	160L-4	18.5	180M-4

(续)

型号 Model	Impeller Capacity	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min											
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84					
		Capacity	Head	配套电机功率及型号 Motor power and model								Capacity	Head	配套电机功率及型号 Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model				
100-80-160	A	94	32	18.5	160L-2	22	180M-2	37	200L2-2	47	8	2.2	100L1-4	3	100L2-4	4	112M-4				
	B	85	28	15	160M2-2	18.5	160L-2	30	300L1-2	42	7	2.2	100L1-4	3	100L2-4	4	112M-4				
	C	76	23	15	160M2-2	15	160M2-2	18.5	160L-2	38	5.5	1.5	90L-4	2.2	100L1-4	3	100L2-4				
	D	66	17	7.5	132S2-2	11	160M1-2	15	160M2-2	34	4	1.1	90S-4	1.5	90L-4	2.2	100L1-4				
100-80-200	A	103	54	37	200L2-2	45	225M-2	55	250M-2	51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	B	95	48	30	300L1-2	37	200L2-2	45	225M-2	47	12	4	112M-4	5.5	132S-4	7.5	132M-4				
	C	84	38	18.5	160L-2	30	300L1-2	37	200L2-2	41	9.5	3	100L2-4	4	112M-4	5.5	132S-4				
	D	70	30	15	160M2-2	18.5	160L-2	30	300L1-2	36	7.5	2.2	100L1-4	3	100L2-4	4	112M-4				
100-80-250	A	127	82	55	250M-2	90	280M-2	110	315S-2	64	20	7.5	132M-4	11	160M-4	15	160L-4				
	B	120	76	55	250M-2	75	280S-2	90	280M-2	60	19	7.5	132M-4	11	160M-4	15	160L-4				
	C	105	59	37	200L2-2	55	250M-2	75	280S-2	52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	D	87	45	30	300L1-2	37	200L2-2	45	225M-2	46	11	4	112M-4	5.5	132S-4	7.5	132M-4				
100-80-315	A	141	127	110	315S-2	132	315M-2			70	33	18.5	180M-4	22	180L-4	30	200L-4				
	B	135	121	90	280M-2	132	315M-2	160	315L1-2	66	30	15	160L-4	18.5	180M-4	30	200L-4				
	C	115	97	75	280S-2	90	280M-2	132	315M-2	56	24	15	160L-4	15	160L-4	18.5	180M-4				
	D	90	74	45	225M-2	55	250M-2	90	280M-2	45	18	7.5	132M-4	11	160M-4	15	160L-4				
100-80-400	A	171	187							85	46	30	200L-4	37	225S-4	55	250M-4				
	B	159	170							80	42	30	200L-4	37	225S-4	45	225M-4				
	C	135	130	132	315M-2	160	315L1-2			65	33	18.5	180M-4	30	200L-4	37	225S-4				
	D	116	95	90	280M-2	110	315S-2	160	315L1-2	53	25	15	160L-4	18.5	180M-4	30	200L-4				
100-100-160	A	162	29	30	300L1-2	37	200L2-2	45	225M-2	81	7.2	3	100L2-4	5.5	132S-4	7.5	132M-4				
	B	150	24	18.5	160L-2	30	300L1-2	37	200L2-2	73	6	3	100L2-4	4	112M-4	5.5	132S-4				
	C	130	17	15	160M2-2	18.5	160L-2	22	180M-2	63	4.3	2.2	100L1-4	4	112M-4	4	112M-4				
	D	110	12	11	160M1-2	15	160M2-2	18.5	160L-2	55	3	1.5	90L-4	2.2	100L1-4	3	100L2-4				
100-100-200	A	193	50	55	250M-2	75	280S-2	90	280M-2	95	12.5	7.5	132M-4	7.5	132M-4	11	160M-4				
	B	180	44	45	225M-2	55	250M-2	75	280S-2	90	10.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	C	155	35	37	200L2-2	45	225M-2	55	250M-2	80	8.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	D	135	26	22	180M-2	30	300L1-2	37	200L2-2	70	6	3	100L2-4	4	112M-4	5.5	132S-4				
150-100-250	A	230	79	90	280M-2	110	315S-2	160	315L1-2	115	20	15	160L-4	18.5	180M-4	22	180L-4				
	B	218	73	90	280M-2	110	315S-2	132	315M-2	110	18	11	160M-4	15	160L-4	18.5	180M-4				
	C	190	58	55	250M-2	75	280S-2	110	315S-2	100	14	7.5	132M-4	11	160M-4	15	160L-4				
	D	170	44	45	225M-2	55	250M-2	90	280M-2	90	10	5.5	132S-4	7.5	132M-4	11	160M-4				
150-100-315	A	250	126	160	315L1-2					125	31	22	180L-4	37	225S-4	45	225M-4				
	B	240	120	160	315L1-2					119	29	22	180L-4	30	200L-4	37	225S-4				
	C	203	97	110	315S-2	160	315L1-2			104	24	18.5	180M-4	22	180L-4	30	200L-4				
	D	170	71	90	280M-2	110	315S-2	132	315M-2	86	17.5	15	160L-4	15	160L-4	18.5	180M-4				



## Shaft Coupled Magnetic Drive Pump Magdrive Pumps

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>z</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

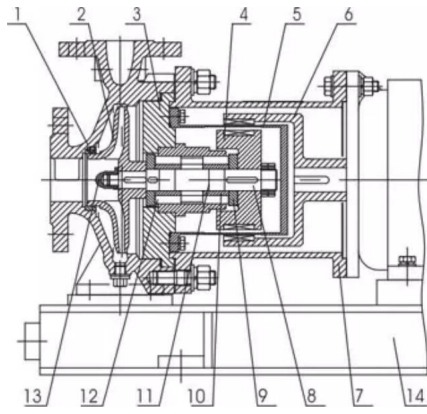
### Product Description

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

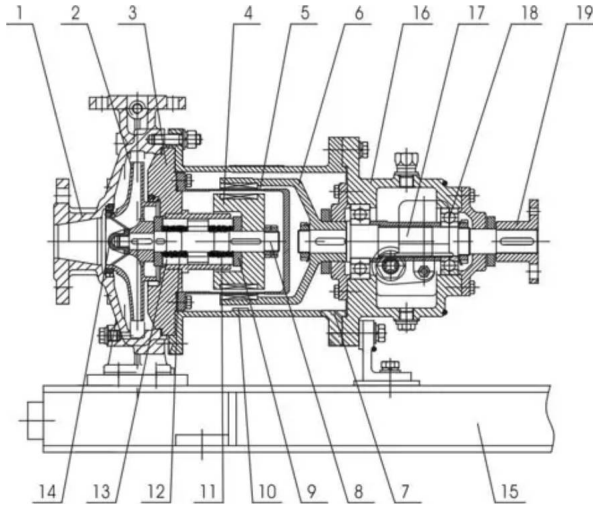
直联式  
MONOBLOCK TYPE



- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母Impell nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132

分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110





## Thermal Oil Circulation Hot Oil Magnetic Drive Pumps

### Product Description:

MDPQ series petrochemical process pumps are designed according to API610 and API685. It is our latest development of a low RPM fully sealed magnetic pump with domestic leading level. This pump is single stage or double stage impeller back to back structure. It has simple structure, shorter shaft, less components, easier to repair. Also, symmetrical impeller eliminate the axial force, improved reliability of pump operation.

The MDPQ pump can be widely used in chemical industry, petrochemical industry, pharmaceuticals, bioengineering and so

on. For the transfer liquid, there should not include any particle. It is special design for pumping inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. In addition, MDPQ pump's characteristic is special for low flow and high head work condition.

## Product Description

### **Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload

### **Typical Uses:**

The wearing part of MDPQ series pump is stainless steel, the pump can be used to transfer not only water, but also corrosive medium, expensive liquid or the other physical and chemical medium. The medium temperature should be less or equal to 350°C. This product is widely apply to:

Chemical  
Industry

Petroleum  
Industry

Pharmaceutical  
Industry

Biological  
Industry

Nuclear Power  
Plant

Nonferrous Metal

Food Industry

Automotive  
Industry

Municipal Water  
Supply

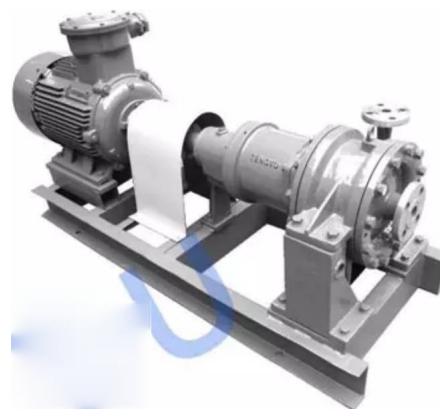
## GENERAL

MDPQ型磁力传动切线流泵（也称磁力传动小流量高扬程泵或部分流泵）是我公司根据市场需要最新开发研制的，具有国内领先水平的一种低比转数全密封离心泵，其性能，技术条件符合API610、API685等标准的要求。本系列流程泵采用单级或两级叶轮背靠背对称布置结构，与高速泵和多级泵相比，结构大为简化，泵轴向尺寸短，零部件少，检修维护方便，且因叶轮对称布置几乎消除了轴向力，提高了泵及装置运行的可靠性，具有同属低比转速的旋涡泵无可比拟的优点。

可广泛适用于石油，化工、生物制药，生物工程等领域的生产流程中输送不含固体颗粒的清洁液体，适用于易燃、易爆、有毒、有害、有腐蚀性及贵重液态介质输送。特别在小流量、高扬程的场合更能发挥其独特的作用。

MDPQ series petrochemical process pumps are designed according to API610 and API685. This pump is single-stage or double stage impeller back to back structure, compare with the multilevel stage pump or high speed pump, it has simple structure, shorter shaft, less components easier to repair. Symmetrical impeller eliminate the axial force, heightens the effect.

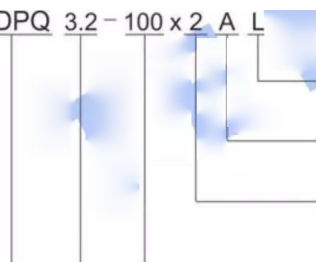
The pump can be widely used in chemical industry, petrochemical industry, Pharmaceuticals, bioengineering, printing and dyeing, food, etc. the liquid should be not include the particle. And it is special for pumping the inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. Its characteristic is that the MDPQ special for low flow and high head work condition.



## MEANING OF THE MODEL

例: MDPQ 3.2 - 100 x 2 A L

EX:



- 分体式（直联式不标注）
- "L" is coupling, no "W" is monobloc
- 叶轮型式（用A、B、C...表示,原型不标注）
- Impeller cut sequence number
- 叶轮级数（单级不标）
- Impeller stage
- 基本型单级额定扬程□m□
- Single stage rating head(m)
- 基本型额定流量
- Rating capacity (m<sup>3</sup>/h)
- 磁力传动切线流泵
- Magnetic drive tangential flow pump

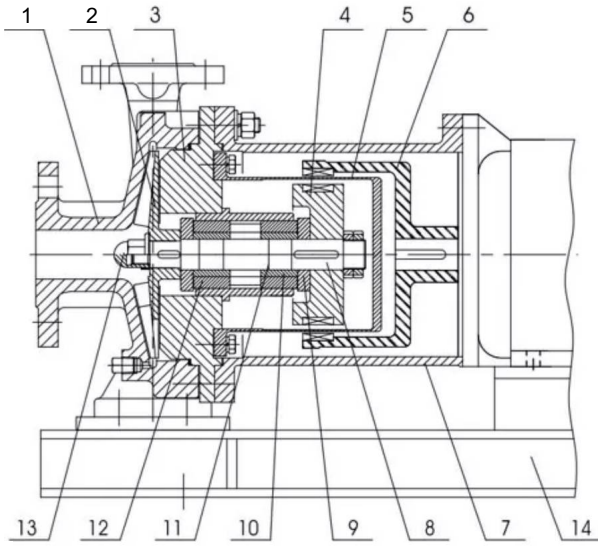
## MATERIAL SELECTION

根据输送介质、使用工况及用户要求可选用：CS、1Cr13、0Cr18Ni9(304)、0Cr18Ni12Mo2Ti(316)、钛合金，哈氏合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be choosed according different medium and work condition.

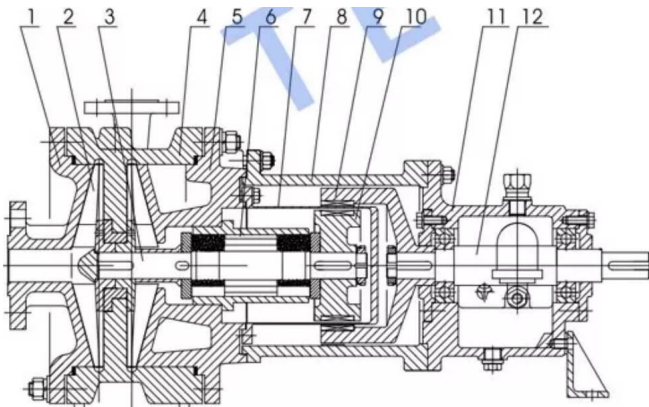
## SKETCH MAP OF STRUCTURE

单级结构  
ONE-STAGE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12 滑动轴承 Slide bearing
- 13 叶轮螺母 Impeller nut
- 14 底座 Base plate

二级结构  
TWO-STAGE



- 01 泵体前盖 Pump front cover
- 02 叶轮 Impeller
- 03 泵轴 Shaft
- 04 泵体 Casing
- 05 泵盖 Pump cover
- 06 滑动轴承组件 Slide bearing components
- 07 隔离套 Insulate sheath
- 08 联结架 Connect frame
- 09 外磁总成 Outer magnetic part
- 10 内磁总成 Inner magnetic part
- 11 轴承箱部件 Bearing box part
- 12 传动轴 Drive shaft

口径: DN25 ~ DN80mm  
流量: 0.6 ~ 40m<sup>3</sup>/h  
扬程: 25 ~ 400m  
转速: 2900r/min  
工作温度: ≤350°C  
压力: <2.5Mpa (底脚支撑);  
≥5.0Mpa (中心线支撑)  
粘度: ≤100mm<sup>2</sup>/s  
电机功率: 1.1 ~ 160kW

Caliber: DN25 ~ DN80mm  
Capacity: 0.6 ~ 40m<sup>3</sup>/h  
Head: 25 ~ 400m  
Rotate speed: 2900r/min  
Work temperature: ≤350°C  
Pressure: ≤2.5Mpa (underprop is footing);  
≥5.0Mpa (underprop is centerline)  
Viscosity: ≤100mm<sup>2</sup>/s  
Motor power: 1.1 ~ 160kW

## PERFORMANCE PARAMETER

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	转速 Rotate speed (r/min)	电机功率 Motor power (kW)	效率 Efficiency (%)	必需汽蚀余量 NPSHr (m)	进口 X出口 Inlet x Outlet (mm)
MDPQ 0.6-25	0.6	25	2900	1.1	7	2.0	40X25
MDPQ 0.6-40	0.6	40		3	7	2.0	
MDPQ 0.6-65	0.6	65		4	6	2.0	
MDPQ 0.6-80	0.6	80		7.5	6	2.0	
MDPQ 1-25	1	25	2900	1.5	8	2.0	40X25
MDPQ 1-40	1	40		4	6	2.0	
MDPQ 1-65	1	65		5.5	5	2.0	
MDPQ 1-80	1	80		7.5	5	2.0	
MDPQ 1-100	1	100		11	4	2.0	
MDPQ 3.2-25	3.2	25	2900	3	12	2.2	40X25
MDPQ 3.2-40	3.2	40		4	11	2.2	
MDPQ 3.2-65	3.2	65		7.5	10	2.2	
MDPQ 3.2-80	3.2	80		11	9	2.2	
MDPQ 3.2-100	3.2	100		15	8	2.2	
MDPQ 3.2-120	3.2	120		18.5	8	2.5	
MDPQ 3.2-150	3.2	150	2900	22	8	2.5	40X25
MDPQ 3.2-100X2	3.2	200		30	8	2.5	
MDPQ 3.2-125X2	3.2	250		37	7	2.5	
MDPQ 3.2-150X2	3.2	300		45	7.1	2.5	
MDPQ 6.3-25	6.3	25	2900	3	22	2.5	40X25
MDPQ 6.3-40	6.3	40		5.5	20	2.5	
MDPQ 6.3-65	6.3	65		7.5	18	2.5	
MDPQ 6.3-80	6.3	80			16	2.5	
MDPQ 6.3-100	6.3	100		<sup>151	15	2.5	
MDPQ 6.3-120	6.3	120	2900	18.5	14	2.5	40X25
MDPQ 6.3-150	6.3	150		22	14	2.5	
MDPQ 6.3-100X2	6.3	200		30	13	2.5	
MDPQ 6.3-125X2	6.3	250		45	12	2.5	
MDPQ 6.3-150X2	6.3	300		55	11	2.5	
MDPQ 12.5-80	12.5	80		2900	18.5	22	
MDPQ 12.5-100	12.5	100	22		19	2.5	
MDPQ 12.5-125	12.5	125	30		17	2.5	
MDPQ 12.5-150	12.5	150	37		16	2.5	
MDPQ 12.5-100X2	12.5	200	45		19	2.5	
MDPQ 12.5-125X2	12.5	250	55		18	2.5	
MDPQ 12.5-150X2	12.5	300	75		17	2.5	
MDPQ 25-80X2	25	160	2900	45	31	2.7	80X40
MDPQ 25-100X2	25	200		55	29	2.7	
MDPQ 25-125X2	25	250		75	28	2.7	
MDPQ 25-150X2	25	300		90	26	2.7	
MDPQ 25-175X2	25	350		110	25	2.7	
MDPQ 25-200X2	25	400		132	24	2.7	
MDPQ 40-150	40	150	2900	75	31	3.2	80X40
MDPQ 40-100X2	40	200		75	34	3.2	
MDPQ 40-125X2	40	250		90	33	3.2	
MDPQ 40-150X2	40	300		110	33	3.2	
MDPQ 40-175X2	40	350		132	32	3.2	
MDPQ 40-200X2	40	400		160	30	3.2	

注：性能超出此范围，可另行设计。

Note: We can special design for you if the pump is not including in this table.



## API 685 Centrifugal Oil Pump, Chemical Magdrive Pump, Oil Process Magdrive Pump

### Product Description:

MDPQ series petrochemical process pumps are designed according to API610 and API685. It is our latest development of a low RPM fully sealed magnetic pump with domestic leading level. This pump is single stage or double stage impeller back to back structure. It has simple structure, shorter shaft, less components, easier to repair. Also, symmetrical impeller eliminate the axial force, improved reliability of pump operation.

The MDPQ pump can be widely used in chemical industry,



petrochemical industry, pharmaceuticals, bioengineering and so on. For the transfer liquid, there should not include any particle. It is special design for pumping inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. In addition, MDPQ pump's characteristic is special for low flow and high head work condition.

## Product Description

### **Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload

### **Typical Uses:**

The wearing part of MDPQ series pump is stainless steel, the pump can be used to transfer not only water, but also corrosive medium, expensive liquid or the other physical and chemical medium. The medium temperature should be less or equal to

350°C. This product is widely apply to:

Chemical Industry	Petroleum Industry	Pharmaceutical Industry
Biological Industry	Nuclear Power Plant	Nonferrous Metal
Food Industry	Automotive Industry	Municipal Water Supply

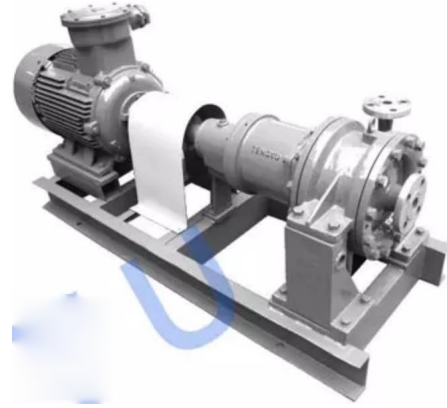
## GENERAL

MDPQ型磁力传动切线流泵（也称磁力传动小流量高扬程泵或部分流泵）是我公司根据市场需要最新开发研制的，具有国内领先水平的一种低比转数全密封离心泵，其性能、技术条件符合API610、API685等标准的要求。本系列流程泵采用单级或两级叶轮背靠背对称布置结构，与高速泵和多级泵相比，结构大为简化，泵轴向尺寸短，零部件少，检修维护方便，且因叶轮对称布置几乎消除了轴向力，提高了泵及装置运行的可靠性，具有同属低比转速的旋涡泵无可比拟的优点。

可广泛适用于石油、化工、生物制药、生物工程等领域的生产流程中输送不含固体颗粒的清洁液体，适用于易燃、易爆、有毒、有害、有腐蚀性及贵重液态介质输送。特别在小流量、高扬程的场合更能发挥其独特的作用。

MDPQ series petrochemical process pumps are designed according to API610 and API685. This pump is single-stage or double stage impeller back to back structure, compare with the multilevel stage pump or high speed pump, it has simple structure, shorter shaft, less components .easier to repair. Symmetrical impeller eliminate the axial force, heightens the effect.

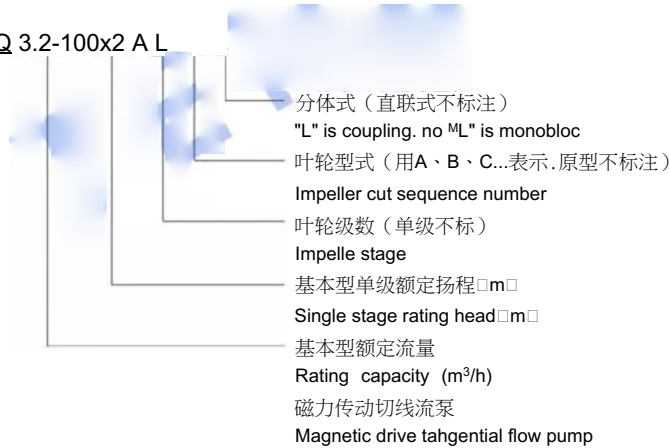
The pump can be widely used in chemical industry, petrochemical industry, Pharmaceuticals, bioengineering, printing and dyeing, food, etc. the liquid should be not include the particle. And it is special for pumping the inflammable, explosive, poisonous, deleterious, mordant and expansive liquid .its characteristic is that the MDPQ special for low flow and high head work condition.



## MEANING OF THE MODEL

例: MDPQ 3.2-100x2 A L

EX:



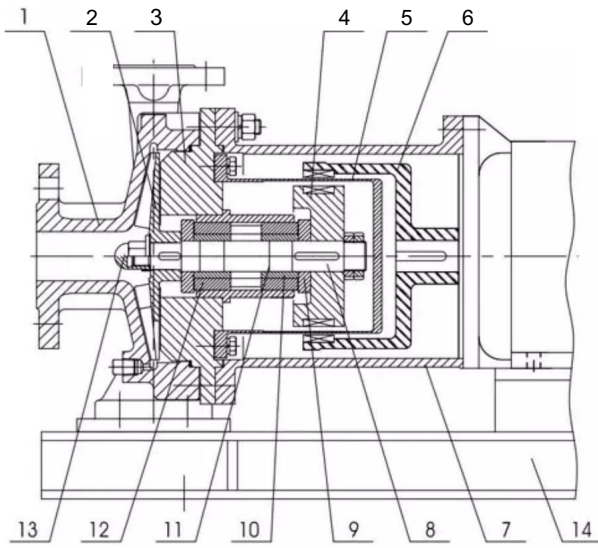
## MATERIAL SELECTION

根据输送介质、使用工况及用户要求可选用：CS、1Cr13、0Cr18Ni9(304)、0Cr18Ni12Mo2Ti(316)、钛合金、哈氏合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be choosed according different medium and work condition.

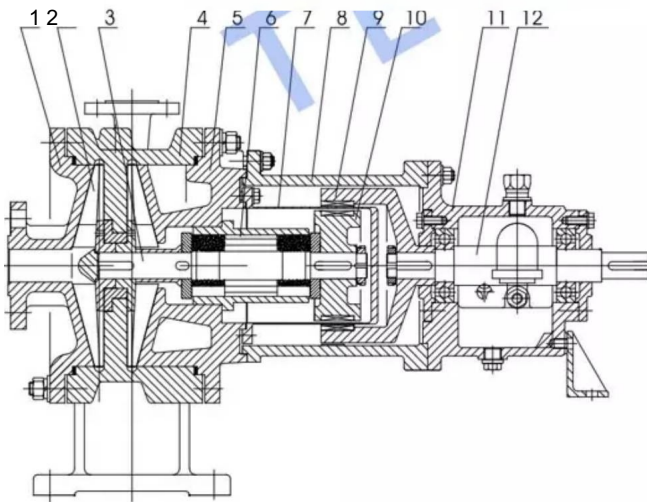
## SKETCH MAP OF STRUCTURE

单级结构  
ONE-STAGE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12 滑动轴承 Slide bearing
- 13 叶轮螺母 Impeller nut
- 14 底座 Base plate

二级结构  
TWO-STAGE



- 01 泵体前盖 Pump front cover
- 02 叶轮 Impeller
- 03 泵轴 Shaft
- 04 泵体 Casing
- 05 泵盖 Pump cover
- 06 滑动轴承组件 Slide bearing components
- 07 隔离套 Insulate sheath
- 08 联结架 Connect frame
- 09 外磁总成 Outer magnetic part
- 10 内磁总成 Inner magnetic part
- 11 轴承箱部件 Bearing box part
- 12 传动轴 Drive shaft

口径: DN25 ~ DN80mm  
流量: 0.6 ~ 40m<sup>3</sup>/h  
扬程: 25 ~ 400m  
转速: 2900r/min  
工作温度: ≤350°C  
压力: <2.5Mpa (底脚支撑);  
≥5.0Mpa (中心线支撑)  
粘度: ≤100mm<sup>2</sup>/s  
电机功率: 1.1 ~ 160kW

Caliber: DN25 ~ DN80mm  
Capacity: 0.6 ~ 40m<sup>3</sup>/h  
Head: 25 ~ 400m  
Rotate speed: 2900r/min  
Work temperature: ≤350°C  
Pressure: ≤2.5Mpa (underprop is footing);  
≥5.0Mpa (underprop is centerline)  
Viscosity: ≤100mm<sup>2</sup>/s  
Motor power: 1.1 ~ 160kW

## PERFORMANCE PARAMETER

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	转速 Rotate speed (r/min)	电机功率 Motor power (kW)	效率 Efficiency (%)	必需汽蚀余量 NPSHr (m)	进口 X出口 Inlet x Outlet (mm)
MDPQ 0.6-25	0.6	25	2900	1.1	7	2.0	40X25
MDPQ 0.6-40	0.6	40		3	7	2.0	
MDPQ 0.6-65	0.6	65		4	6	2.0	
MDPQ 0.6-80	0.6	80		7.5	6	2.0	
MDPQ 1-25	1	25	2900	1.5	8	2.0	40X25
MDPQ 1-40	1	40		4	6	2.0	
MDPQ 1-65	1	65		5.5	5	2.0	
MDPQ 1-80	1	80		7.5	5	2.0	
MDPQ 1-100	1	100		11	4	2.0	
MDPQ 3.2-25	3.2	25	2900	3	12	2.2	40X25
MDPQ 3.2-40	3.2	40		4	11	2.2	
MDPQ 3.2-65	3.2	65		7.5	10	2.2	
MDPQ 3.2-80	3.2	80		11	9	2.2	
MDPQ 3.2-100	3.2	100		15	8	2.2	
MDPQ 3.2-120	3.2	120	2900	18.5	8	2.5	
MDPQ 3.2-150	3.2	150		22	8	2.5	
MDPQ 3.2-100X2	3.2	200		30	8	2.5	
MDPQ 3.2-125X2	3.2	250		37	7	2.5	
MDPQ 3.2-150X2	3.2	300		45	7.1	2.5	
MDPQ 6.3-25	6.3	25	2900	3	22	2.5	40X25
MDPQ 6.3-40	6.3	40		5.5	20	2.5	
MDPQ 6.3-65	6.3	65		7.5	18	2.5	
MDPQ 6.3-80	6.3	80			16	2.5	
MDPQ 6.3-100	6.3	100		<^151	15	2.5	
MDPQ 6.3-120	6.3	120	2900	18.5	14	2.5	40X25
MDPQ 6.3-150	6.3	150		22	14	2.5	
MDPQ 6.3-100X2	6.3	200		30	13	2.5	
MDPQ 6.3-125X2	6.3	250		45	12	2.5	
MDPQ 6.3-150X2	6.3	300		55	11	2.5	
MDPQ 12.5-80	12.5	80	2900	18.5	22	2.5	50X32
MDPQ 12.5-100	12.5	100		22	19	2.5	
MDPQ 12.5-125	12.5	125		30	17	2.5	
MDPQ 12.5-150	12.5	150		37	16	2.5	
MDPQ 12.5-100X2	12.5	200		45	19	2.5	
MDPQ 12.5-125X2	12.5	250		55	18	2.5	
MDPQ 12.5-150X2	12.5	300	75	17	2.5		
MDPQ 25-80X2	25	160	2900	45	31	2.7	80X40
MDPQ 25-100X2	25	200		55	29	2.7	
MDPQ 25-125X2	25	250		75	28	2.7	
MDPQ 25-150X2	25	300		90	26	2.7	
MDPQ 25-175X2	25	350		110	25	2.7	
MDPQ 25-200X2	25	400		132	24	2.7	
MDPQ 40-150	40	150	2900	75	31	3.2	80X40
MDPQ 40-100X2	40	200		75	34	3.2	
MDPQ 40-125X2	40	250		90	33	3.2	
MDPQ 40-150X2	40	300		110	33	3.2	
MDPQ 40-175X2	40	350		132	32	3.2	
MDPQ 40-200X2	40	400		160	30	3.2	

注：性能超出此范围，可另行设计。

Note: We can special design for you if the pump is not including in this table.



## Low flow & high head Magnetic Drive Oil Chemical Process Pump

MDPQ series petrochemical process pumps are designed according to API610 and API685. It is our latest development of a low RPM fully sealed magnetic pump with domestic leading level. This pump is single stage or double stage impeller back to back structure. It has simple structure, shorter shaft, less components, easier to repair. Also, symmetrical impeller eliminate the axial force, improved reliability of pump operation.

### Product Description

The MDPQ pump can be widely used in chemical industry, petrochemical industry, pharmaceuticals, bioengineering and so



on. For the transfer liquid, there should not include any particle. It is special design for pumping inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. In addition, MDPQ pump's characteristic is special for low flow and high head work condition.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

## PERFORMANCE PARAMETER

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	转速 Rotate speed (r/min)	电机功率 Motor power (kW)	效率 Efficiency (%)	必需汽蚀余量 NPSHr (m)	进口 X出口 Inlet x Outlet (mm)
MDPQ 0.6-25	0.6	25	2900	1.1	7	2.0	40X25
MDPQ 0.6-40	0.6	40		3	7	2.0	
MDPQ 0.6-65	0.6	65		4	6	2.0	
MDPQ 0.6-80	0.6	80		7.5	6	2.0	
MDPQ 1-25	1	25	2900	1.5	8	2.0	40X25
MDPQ 1-40	1	40		4	6	2.0	
MDPQ 1-65	1	65		5.5	5	2.0	
MDPQ 1-80	1	80		7.5	5	2.0	
MDPQ 1-100	1	100		11	4	2.0	
MDPQ 3.2-25	3.2	25	2900	3	12	2.2	40X25
MDPQ 3.2-40	3.2	40		4	11	2.2	
MDPQ 3.2-65	3.2	65		7.5	10	2.2	
MDPQ 3.2-80	3.2	80		11	9	2.2	
MDPQ 3.2-100	3.2	100		15	8	2.2	
MDPQ 3.2-120	3.2	120	2900	18.5	8	2.5	
MDPQ 3.2-150	3.2	150		22	8	2.5	
MDPQ 3.2-100X2	3.2	200		30	8	2.5	
MDPQ 3.2-125X2	3.2	250		37	7	2.5	
MDPQ 3.2-150X2	3.2	300		45	7.1	2.5	
MDPQ 6.3-25	6.3	25	2900	3	22	2.5	40X25
MDPQ 6.3-40	6.3	40		5.5	20	2.5	
MDPQ 6.3-65	6.3	65		7.5	18	2.5	
MDPQ 6.3-80	6.3	80			16	2.5	
MDPQ 6.3-100	6.3	100		<^151	15	2.5	
MDPQ 6.3-120	6.3	120	2900	18.5	14	2.5	40X25
MDPQ 6.3-150	6.3	150		22	14	2.5	
MDPQ 6.3-100X2	6.3	200		30	13	2.5	
MDPQ 6.3-125X2	6.3	250		45	12	2.5	
MDPQ 6.3-150X2	6.3	300		55	11	2.5	
MDPQ 12.5-80	12.5	80	2900	18.5	22	2.5	50X32
MDPQ 12.5-100	12.5	100		22	19	2.5	
MDPQ 12.5-125	12.5	125		30	17	2.5	
MDPQ 12.5-150	12.5	150		37	16	2.5	
MDPQ 12.5-100X2	12.5	200		45	19	2.5	
MDPQ 12.5-125X2	12.5	250		55	18	2.5	
MDPQ 12.5-150X2	12.5	300	75	17	2.5		
MDPQ 25-80X2	25	160	2900	45	31	2.7	80X40
MDPQ 25-100X2	25	200		55	29	2.7	
MDPQ 25-125X2	25	250		75	28	2.7	
MDPQ 25-150X2	25	300		90	26	2.7	
MDPQ 25-175X2	25	350		110	25	2.7	
MDPQ 25-200X2	25	400		132	24	2.7	
MDPQ 40-150	40	150	2900	75	31	3.2	80X40
MDPQ 40-100X2	40	200		75	34	3.2	
MDPQ 40-125X2	40	250		90	33	3.2	
MDPQ 40-150X2	40	300		110	33	3.2	
MDPQ 40-175X2	40	350		132	32	3.2	
MDPQ 40-200X2	40	400		160	30	3.2	

注：性能超出此范围，可另行设计。

Note: We can special design for you if the pump is not including in this table.



## Magnetic Drive Oil Chemical Process Sealless Pump

The MDPA Magnetic Drive Oil Chemical Process Pump is the new type of pump that developed by Tengyu that has the domestic leading level. Compared with mechanically sealed ZA/ZE oil chemical process pump, MDPA pump has many incomparable advantages and provides a better choice for leak-free occasions in chemical process.

### Product Description

The MDPA adopts integrated planning design, the high level of generalization and serialization leads to easy interchangeability of parts. The hydraulic components are designed according to the

excellent hydraulic model in Europe. The new structure curve has no hump and the performance is stable. MDPA has very good cavitation resistance and greatly improved efficiency compared to other similar products on market. The MDPA pump is designed according to API610/API685 and other standards, it has unique advantages in petrochemical industry with high reliability and easy maintenance.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

## MATERIAL SELECTION

根据输送介质、使用工况及用户要求可选用：CS、1Cr13、0Cr18Ni9(304)、0Cr18Ni12Mo2Ti(316)、钛合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be chosen according different medium and work condition.

## PERFORMANCE RANGE

口径: DN25 ~ DN200mm

流量: 4 ~ 300m<sup>3</sup>/h

扬程: < 194m

转速: 2900r/min; 1450r/min

工作温度: < 175°C(MDPA); ≥ 35°C(TC(MDPE))

粘度: < 100mm<sup>2</sup>/s

压力: ≥ 2.5Mpa(MDPA); ≥ 5.0Mpa(MDPE)

电机功率: 1.1 ~ 160kW

Caliber: DN25-DN200mm

Capacity: 4 ~ 300m<sup>3</sup>/h

Head: < 194m

Rotate speed: 2900r/min; 1450r/min

Work temperature: < 175°C(MDPA); ≥ 35°C(MDPE)

Viscosity: < 100mm<sup>2</sup>/s

Pressure: ≥ 2.5Mpa(MDPA); < 5.0Mpa(MDPE)

Motor power: 1.1 ~ 1

## PERFORMANCE PARAMETER

型号 Model	叶轮 型式 Anpellet	額定转速 Rating rotate speed n=2900r/min							額定转速 Rating rotate speed n=1450r/min								
		流量 Capacity	扬程 Head	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	浪 浪	扬程 Head	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	浪 浪					
		m <sup>3</sup> /h	m	kW	型号 Model	型号 Model	型号 Model	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	型号 Model	型号 Model	型号 Model		
40-25-200	A	11.5	49	7.5	132S2-2	J1	15	160M2-2	5.8	12	1.1	90S-4	1.1	90S-4	1.5	90L-4	
	B	10.5	42	5.5	132S1-2	75	132S2-2	11	160M1-2	5.4	11	1.1	90S-4	1.1	90S-4	1.5	90L-4
	C	9	36	4	112M-2		132S1-2	7.5	132S2-2	4.6	8.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
	D	7.5	28	3	100L-2	4	112M-2	5.5	132S1-2	4	6.5	1.1	90S-4	1.1	90S-4	1.1	90S-4
50-25-250	A	11.5	80	15	160M2-2	18.5	160L-2	30	300L1-2	8	17	3	100L2-4	4	112M-4	5.5	132S-4
	B	9.5	67	15	160M2-2	18.5	160L-2	22	180M-2	7	16.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	8.8	50	11	160M1-2	15	160M2-2	18.5	160L-2	6.5	12	3	100L2-4	4	112M-4	5.5	132S-4
	D	8.5	30	7.5	132S2-2	11	160M1-2	15	160M2-2	6	6.5	2.2	100L1-4	3	100L2-4	4	112M-4
50-25-315	A	21	128	45	225M-2	55	250M-2	75	280S-2	9.6	32	7.5	132M-4	11	160M-4	15	160L-4
	B	18	115	37	200L2-2	55	250M-2	75	280S-2	8.5	30	5.5	132S-4	11	160M-4	15	160L-4
	C	16	100	37	200L2-2	45	225M-2	55	250M-2	7.5	25	5.5	132S-4	7.5	132M-4	11	160M-4
	D	14	90	30	300L1-2	45	225M-2	55	250M-2	7	22	5.5	132S-4	7.5	132M-4	11	160M-4
80-40-160	A	28	33	7.5	132S2-2	11	160M1-2	15	160M2-2	14	8	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	B	25.5	29	7.5	132S2-2	11	160M1-2	15	160M2-2	13	7	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	C	22	22	5.5	132S1-2	7.5	132S2-2	11	160M1-2	11	5.5	1.1	90S-4	1.1	90S-4	1.5	90L-4
	D	20	16	4	112M-2	4	112M-2	7.5	132S2-2	9.5	4.5	1.1	90S-4	1.1	90S-4	1.1	90S-4

(续)

型号 Model	叶型	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	
		Head	配套电机功率及型号 Motor power and model														
	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	
80-40-200	A	29	53	15	160M2-2	18.5	160L-2	22	180M-2	14.5	13	2.2	100L1-4	2.2	100L1-4	4	112M-4
	B	26	47	11	160M1-2	15	160M2-2	22	180M-2	13	11.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	22	39	11	160M1-2	11	160M1-2	15	160M2-2	11.5	9	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	18	20	7.5	132S2-2	11	160M1-2	15	160M2-2	9.5	7	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-40-250	A	32	78	22	180M-2	30	300L1-2	37	200L2-2	16	19.5	3	100L2-4	4	112M-4	5.5	132S-4
	B	30	72	22	180M-2	30	300L1-2	37	200L2-2	15	18	3	100L2-4	4	112M-4	5.5	132S-4
	C	24	60	15	160M2-2	18.5	160L-2	30	300L1-2	12.5	14	2.2	100L1-4	3	100L2-4	4	112M-4
	D	21	47	11	160M1-2	15	160M2-2	18.5	160L-2	10.5	11	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-40-315	A	42	115	45	225M-2	75	280S-2	90	280M-2	21	29	7.5	132M-4	11	160M-4	15	160L-4
	B	40	107	45	225M-2	55	250M-2	75	280S-2	20	26.5	7.5	132M-4	11	160M-4	15	160L-4
	C	34	81	30	300L1-2	45	225M-2	55	250M-2	17.5	20	5.5	132S-4	7.5	132M-4	11	160M-4
	D	29	61	22	180M-2	30	300L1-2	37	200L2-2	15	15	4	112M-4	5.5	132S-4	7.5	132M-4
80-40-400	A	42.5	156	75	280S-2	90	280M-2	132	315M-2	21	39	11	160M-4	15	160L-4	18.5	180M-4
	B	42	126	55	250M-2	75	280S-2	110	315S-2	20	32	11	160M-4	11	160M-4	15	160L-4
	C	40	110	55	250M-2	75	280S-2	90	280M-2	19	28	7.5	132M-4	11	160M-4	15	160L-4
	D	37.5	82	37	200L2-2	55	250M-2	75	280S-2	18	20.5	5.5	132S-4	7.5	132M-4	11	160M-4
80-50-160	A	50	34	15	160M2-2	18.5	160L-2	22	180M-2	25	8.4	1.5	90L-4	2.2	100L1-4	3	100L2-4
	B	45	29	11	160M1-2	15	160M2-2	18.5	160L-2	22.5	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	38	22	7.5	132S2-2	11	160M1-2	15	160M2-2	19	5.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	31	17	5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-50-200	A	62	52	22	180M-2	30	300L1-2	37	200L2-2	31	13	3	100L2-4	4	112M-4	5.5	132S-4
	B	56	46	18.5	160L-2	22	180M-2	30	300L1-2	28.5	11.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	49	37	15	160M2-2	18.5	160L-2	22	180M-2	25	9	2.2	100L1-4	3	100L2-4	4	112M-4
	D	43	28	11	160M1-2	15	160M2-2	18.5	160L-2	22	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-50-250	A	70	82	37	200L2-2	45	225M-2	75	280S-2	35	20	5.5	132S-4	7.5	132M-4	11	160M-4
	B	66	75	37	200L2-2	45	225M-2	55	250M-2	33	18.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	60	60	30	300L1-2	37	200L2-2	45	225M-2	30	15	4	112M-4	5.5	132S-4	7.5	132M-4
	D	50	45	18.5	160L-2	22	180M-2	30	300L1-2	26	11	3	100L2-4	4	112M-4	5.5	132S-4
100-50-315	A	87	115	75	280S-2	90	280M-2	132	315M-2	44	28	15	160L-4	15	160L-4	18.5	180M-4
	B	80	100	55	250M-2	75	280S-2	110	315S-2	40	24	11	160M-4	15	160L-4	18.5	180M-4
	C	70	78	45	225M-2	55	250M-2	75	280S-2	35	19	7.5	132M-4	11	160M-4	15	160L-4
	D	57	57	30	300L1-2	37	200L2-2	55	250M-2	30	14	4	112M-4	5.5	132S-4	7.5	132M-4
100-50-400	A	82	194	132	315M-2					41	48	22	180L-4	30	200L-4	37	225S-4
	B	78	175	132	315M-2	160	315L1-2			39	43	18.5	180M-4	22	180L-4	30	200L-4
	C	70	140	90	280M-2	132	315M-2	160	315L1-2	35	34	15	160L-4	18.5	180M-4	22	180L-4
	D	60	102	75	280S-2	90	280M-2	132	315M-2	30	25	11	160M-4	15	160L-4	18.5	180M-4

(续)

型号 Model	Impeller	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min											
		流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84	流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84				
		Capacity	Head	配套电机功率及型号 Motor power and model								Capacity	Head	配套电机功率及型号 Motor power and model							
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model				
100-80-160	A	94	32	18.5	160L-2	22	180M-2	37	200L2-2	47	8	2.2	100L1-4	3	100L2-4	4	112M-4				
	B	85	28	15	160M2-2	18.5	160L-2	30	300L1-2	42	7	2.2	100L1-4	3	100L2-4	4	112M-4				
	C	76	23	15	160M2-2	15	160M2-2	18.5	160L-2	38	5.5	1.5	90L-4	2.2	100L1-4	3	100L2-4				
	D	66	17	7.5	132S2-2	11	160M1-2	15	160M2-2	34	4	1.1	90S-4	1.5	90L-4	2.2	100L1-4				
100-80-200	A	103	54	37	200L2-2	45	225M-2	55	250M-2	51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	B	95	48	30	300L1-2	37	200L2-2	45	225M-2	47	12	4	112M-4	5.5	132S-4	7.5	132M-4				
	C	84	38	18.5	160L-2	30	300L1-2	37	200L2-2	41	9.5	3	100L2-4	4	112M-4	5.5	132S-4				
	D	70	30	15	160M2-2	18.5	160L-2	30	300L1-2	36	7.5	2.2	100L1-4	3	100L2-4	4	112M-4				
100-80-250	A	127	82	55	250M-2	90	280M-2	110	315S-2	64	20	7.5	132M-4	11	160M-4	15	160L-4				
	B	120	76	55	250M-2	75	280S-2	90	280M-2	60	19	7.5	132M-4	11	160M-4	15	160L-4				
	C	105	59	37	200L2-2	55	250M-2	75	280S-2	52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	D	87	45	30	300L1-2	37	200L2-2	45	225M-2	46	11	4	112M-4	5.5	132S-4	7.5	132M-4				
100-80-315	A	141	127	110	315S-2	132	315M-2			70	33	18.5	180M-4	22	180L-4	30	200L-4				
	B	135	121	90	280M-2	132	315M-2	160	315L1-2	66	30	15	160L-4	18.5	180M-4	30	200L-4				
	C	115	97	75	280S-2	90	280M-2	132	315M-2	56	24	15	160L-4	15	160L-4	18.5	180M-4				
	D	90	74	45	225M-2	55	250M-2	90	280M-2	45	18	7.5	132M-4	11	160M-4	15	160L-4				
100-80-400	A	171	187							85	46	30	200L-4	37	225S-4	55	250M-4				
	B	159	170							80	42	30	200L-4	37	225S-4	45	225M-4				
	C	135	130	132	315M-2	160	315L1-2			65	33	18.5	180M-4	30	200L-4	37	225S-4				
	D	116	95	90	280M-2	110	315S-2	160	315L1-2	53	25	15	160L-4	18.5	180M-4	30	200L-4				
100-100-160	A	162	29	30	300L1-2	37	200L2-2	45	225M-2	81	7.2	3	100L2-4	5.5	132S-4	7.5	132M-4				
	B	150	24	18.5	160L-2	30	300L1-2	37	200L2-2	73	6	3	100L2-4	4	112M-4	5.5	132S-4				
	C	130	17	15	160M2-2	18.5	160L-2	22	180M-2	63	4.3	2.2	100L1-4	4	112M-4	4	112M-4				
	D	110	12	11	160M1-2	15	160M2-2	18.5	160L-2	55	3	1.5	90L-4	2.2	100L1-4	3	100L2-4				
100-100-200	A	193	50	55	250M-2	75	280S-2	90	280M-2	95	12.5	7.5	132M-4	7.5	132M-4	11	160M-4				
	B	180	44	45	225M-2	55	250M-2	75	280S-2	90	10.5	5.5	132S-4	7.5	132M-4	11	160M-4				
	C	155	35	37	200L2-2	45	225M-2	55	250M-2	80	8.5	4	112M-4	5.5	132S-4	7.5	132M-4				
	D	135	26	22	180M-2	30	300L1-2	37	200L2-2	70	6	3	100L2-4	4	112M-4	5.5	132S-4				
150-100-250	A	230	79	90	280M-2	110	315S-2	160	315L1-2	115	20	15	160L-4	18.5	180M-4	22	180L-4				
	B	218	73	90	280M-2	110	315S-2	132	315M-2	110	18	11	160M-4	15	160L-4	18.5	180M-4				
	C	190	58	55	250M-2	75	280S-2	110	315S-2	100	14	7.5	132M-4	11	160M-4	15	160L-4				
	D	170	44	45	225M-2	55	250M-2	90	280M-2	90	10	5.5	132S-4	7.5	132M-4	11	160M-4				
150-100-315	A	250	126	160	315L1-2					125	31	22	180L-4	37	225S-4	45	225M-4				
	B	240	120	160	315L1-2					119	29	22	180L-4	30	200L-4	37	225S-4				
	C	203	97	110	315S-2	160	315L1-2			104	24	18.5	180M-4	22	180L-4	30	200L-4				
	D	170	71	90	280M-2	110	315S-2	132	315M-2	86	17.5	15	160L-4	15	160L-4	18.5	180M-4				



(续)

型号 Model	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min								
	流量 Capacity	扬程 Head	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		流量 Capacity	扬程 Head	比重 S.G.r=1		比重 S.G.r=1.35		比重 S.G.r=1.84		
	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	
150-100-400	A	300	194						150	48	45	225M-4	55	250M-4	90	280M-4	
	B	290	180						145	44	37	225S-4	55	250M-4	75	280S-4	
	C	260	145						130	36	30	200L-4	37	225S-4	55	250M-4	
	D	224	105	160	315L1-2				115	26	22	180L-4	30	200L-4	37	225S-4	
150-100-500	A								180	75	90	280M-4	110	315S-4	132	315M-4	
	B								167	68	75	280S-4	90	280M-4	132	315M-4	
	C								142	53	55	250M-4	75	280S-4	90	280M-4	
	D								120	42	37	225S-4	45	225M-4	75	280S-4	
150-150-200	A	320	44	75	280S-2	90	280M-2		160	11	11	160M-4	15	160L-4	18.5	180M-4	
	B	300	39	55	250M-2	90	280M-2	110	315S-2	152	9.5	11	160M-4	15	160L-4	18.5	180M-4
	C	265	30	45	225M-2	55	250M-2	90	280M-2	140	7	7.5	132M-4	11	160M-4	15	160L-4
	D	220	23	30	300L1-2	45	225M-2	55	250M-2	123	5	4	112M-4	5.5	132S-4	7.5	132M-4
150-150-250	A	390	74	132	315M-2				195	18.5	18.5	180M-4	30	200L-4	37	225S-4	
	B	355	62	110	315S-2	160	315L1-2		180	16	18.5	180M-4	22	180L-4	30	200L-4	
	C	325	46	90	280M-2	132	315M-2	160	315L1-2	160	11.5	15	160L-4	15	160L-4	18.5	180M-4
	D																
150-150-315	A	442	125						220	32.5	37	225S-4	55	250M-4	75	280S-4	
	B	430	120						210	30	37	225S-4	45	225M-4	75	280S-4	
	C	372	94						180	24	30	200L-4	37	225S-4	45	225M-4	
	D	310	68	132	315M-2	160	315L1-2		150	17	18.5	180M-4	22	180L-4	30	200L-4	
150-150-400	A								260	51	75	280S-4	90	280M-4	132	315M-4	
	B								250	48	75	280S-4	90	280M-4	110	315S-4	
	C								225	38	45	225M-4	75	280S-4	90	280M-4	
	D								200	28	37	225S-4	45	225M-4	75	280S-4	
200-200-250	A	610	72						305	17.5	30	200L-4	37	225S-4	55	250M-4	
	B	580	65						290	16	22	180L-4	37	225S-4	45	225M-4	
	C	520	47	132	315M-2	160	315L1-2		260	12	18.5	180M-4	22	180L-4	37	225S-4	
	D	470	32	90	280M-2	110	315S-2	132	315M-2	240	8	15	160L-4	18.5	180M-4	18.5	180M-4
200-200-315	A	710	122						350	30	55	250M-4	75	280S-4	90	280M-4	
	B	680	114						340	29	45	225M-4	75	280S-4	90	280M-4	
	C	600	87						300	22	37	225S-4	45	225M-4	75	280S-4	
	D	480	65	160	315L1-2				250	15	22	180L-4	30	200L-4	37	225S-4	
200-200-400	A								426	50	110	315S-4	132	315M-4			
	B								410	47	90	280M-4	132	315M-4	160	315L1-4	
	C								370	36.5	75	280S-4	90	280M-4	132	315M-4	
	D								332	27	55	250M-4	75	280S-4	90	280M-4	

注：表中有流量、扬程值，而无功率值的泵、其功率超过160kW,需订货时确定。

Note: In this table, there are flow and head, but if the pump has no power value, or the power out of 160kW, must be determined when ording.



## MIDP Series Sealless Magnetic Drive Pump

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140, compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

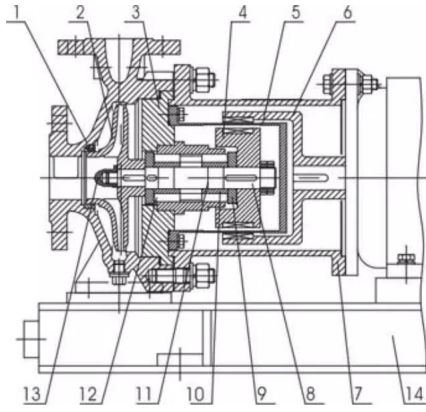
### Product Description

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

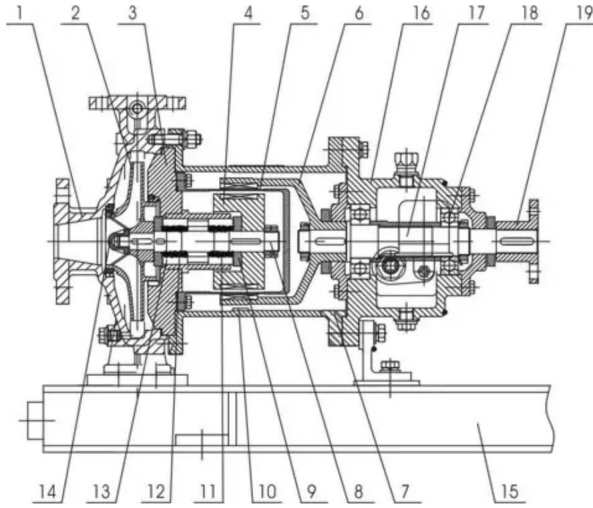
直联式  
MONOBLOCK TYPE



- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母Impell nut
- 14底座 Base plate

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (10)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132

分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (10),	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## API685 Low Flow & High Head Oil Chemical Process Magnetic Drive Pumps

### Product Description:

MDPQ series petrochemical process pumps are designed according to API610 and API685. It is our latest development of a low RPM fully sealed magnetic pump with domestic leading level. This pump is single stage or double stage impeller back to back structure. It has simple structure, shorter shaft, less components, easier to repair. Also, symmetrical impeller eliminate the axial force, improved reliability of pump operation.

The MDPQ pump can be widely used in chemical industry,

petrochemical industry, pharmaceuticals, bioengineering and so on. For the transfer liquid, there should not include any particle. It is special design for pumping inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. In addition, MDPQ pump's characteristic is special for low flow and high head work condition.

## Product Description

### **Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload

### **Typical Uses:**

The wearing part of MDPQ series pump is stainless steel, the pump can be used to transfer not only water, but also corrosive medium, expensive liquid or the other physical and chemical medium. The medium temperature should be less or equal to



350°C. This product is widely apply to:

Chemical Industry	Petroleum Industry	Pharmaceutical Industry
Biological Industry	Nuclear Power Plant	Nonferrous Metal
Food Industry	Automotive Industry	Municipal Water Supply

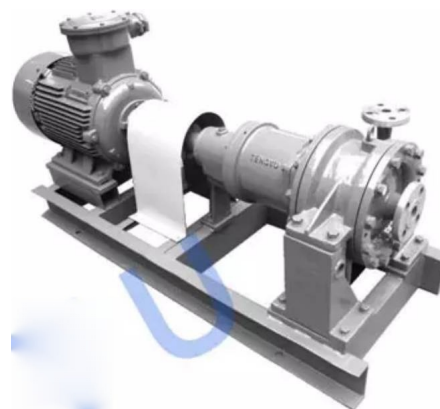
**GENERAL**

MDPQ型磁力传动切线流泵（也称磁力传动小流量高扬程泵或部分流泵）是我公司根据市场需要最新开发研制的，具有国内领先水平的一种低比转数全密封离心泵，其性能，技术条件符合API610、API685等标准的要求。本系列流程泵采用单级或两级叶轮背靠背对称布置结构，与高速泵和多级泵相比，结构大为简化，泵轴向尺寸短，零部件少，检修维护方便，且因叶轮对称布置几乎消除了轴向力，提高了泵及装置运行的可靠性，具有同属低比转速的旋涡泵无可比拟的优点。

可广泛适用于石油，化工、生物制药，生物工程等领域的生产过程中输送不含固体颗粒的清洁液体，适用于易燃、易爆、有毒、有害、有腐蚀性及贵重液态介质输送。特别在小流量、高扬程的场合更能发挥其独特的作用。

MDPQ series petrochemical process pumps are designed according to API610 and API685. This pump is single-stage or double stage impeller back to back structure, compare with the multilevel stage pump or high speed pump, it has simple structure, shorter shaft, less components easier to repair. Symmetrical impeller eliminate the axial force, heightens the effect.

The pump can be widely used in chemical industry, petrochemical industry, Pharmaceuticals, bioengineering, printing and dyeing, food, etc. the liquid should be not include the particle. And it is special for pumping the inflammable, explosive, poisonous, deleterious, mordant and expansive liquid. its characteristic is that the MDPQ special for low flow and high head work condition.



**MEANING OF THE MODEL**

例: MDPQ 3.2 - 100 x 2 A L

EX:



- 分体式（直联式不标注）
- "L" is coupling. no "L" is monobloc
- 叶轮型式（用A、B、C...表示. 原型不标注）
- Impeller cut sequence number
- 叶轮级数（单级不标）
- Impeller stage
- 基本型单级额定扬程□m□
- Single stage rating head(m)
- 基本型额定流量
- Rating capacity (m³/h)
- 磁力传动切线流泵
- Magnetic drive tangential flow pump

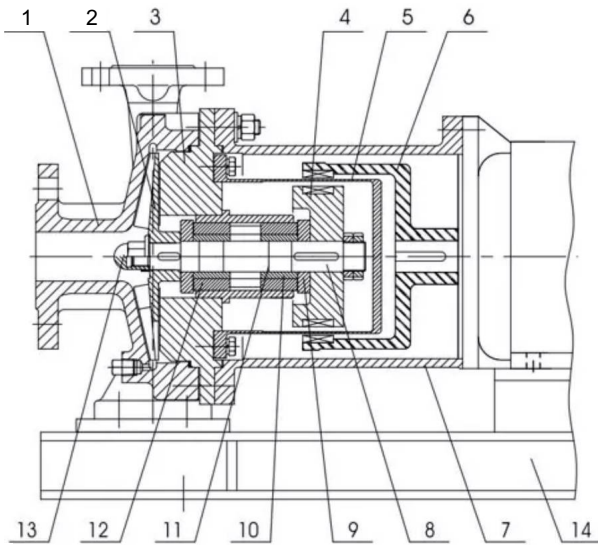
**MATERIAL SELECTION**

根据输送介质、使用工况及用户要求可选用：CS、1Cr13、0Cr18Ni9(304)、0Cr18Ni12Mo2Ti(316)、钛合金，哈氏合金等材质。

There are CS, 1Cr13, 0Cr18Ni9(304), 0Cr18Ni12Mo2Ti(316), Ti alloy can be choosed according different medium and work condition.

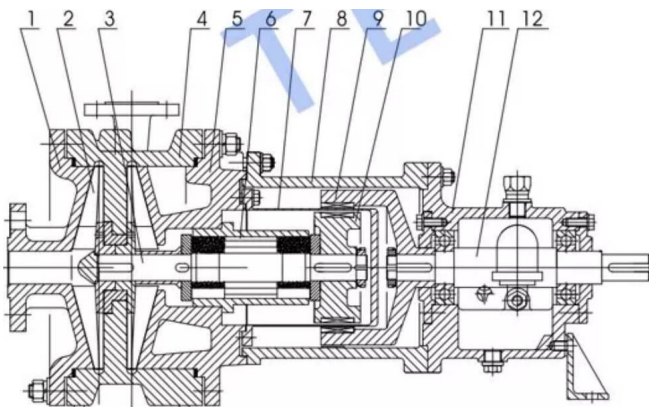
## SKETCH MAP OF STRUCTURE

单级结构  
ONE-STAGE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12 滑动轴承 Slide bearing
- 13 叶轮螺母 Impeller nut
- 14 底座 Base plate

二级结构  
TWO-STAGE



- 01 泵体前盖 Pump front cover
- 02 叶轮 Impeller
- 03 泵轴 Shaft
- 04 泵体 Casing
- 05 泵盖 Pump cover
- 06 滑动轴承组件 Slide bearing components
- 07 隔离套 Insulate sheath
- 08 联接架 Connect frame
- 09 外磁总成 Outer magnetic part
- 10 内磁总成 Inner magnetic part
- 11 轴承箱部件 Bearing box part
- 12 传动轴 Drive shaft

口径: DN25 ~ DN80mm  
流量: 0.6 ~ 40m<sup>3</sup>/h  
扬程: 25 ~ 400m  
转速: 2900r/min  
工作温度: ≤350°C  
压力: <2.5Mpa (底脚支撑);  
≥5.0Mpa (中心线支撑)  
粘度: ≤100mm<sup>2</sup>/s  
电机功率: 1.1 ~ 160kW

Caliber: DN25 ~ DN80mm  
Capacity: 0.6 ~ 40m<sup>3</sup>/h  
Head: 25 ~ 400m  
Rotate speed: 2900r/min  
Work temperature: ≤350°C  
Pressure: ≤2.5Mpa (underprop is footing);  
≥5.0Mpa (underprop is centerline)  
Viscosity: ≤100mm<sup>2</sup>/s  
Motor power: 1.1 ~ 160kW

## PERFORMANCE PARAMETER

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	转速 Rotate speed (r/min)	电机功率 Motor power (kW)	效率 Efficiency (%)	必需汽蚀余量 NPSHr (m)	进口 X 出口 Inlet x Outlet (mm)
MDPQ 0.6-25	0.6	25	2900	1.1	7	2.0	40X25
MDPQ 0.6-40	0.6	40		3	7	2.0	
MDPQ 0.6-65	0.6	65		4	6	2.0	
MDPQ 0.6-80	0.6	80		7.5	6	2.0	
MDPQ 1-25	1	25	2900	1.5	8	2.0	40X25
MDPQ 1-40	1	40		4	6	2.0	
MDPQ 1-65	1	65		5.5	5	2.0	
MDPQ 1-80	1	80		7.5	5	2.0	
MDPQ 1-100	1	100		11	4	2.0	
MDPQ 3.2-25	3.2	25	2900	3	12	2.2	40X25
MDPQ 3.2-40	3.2	40		4	11	2.2	
MDPQ 3.2-65	3.2	65		7.5	10	2.2	
MDPQ 3.2-80	3.2	80		11	9	2.2	
MDPQ 3.2-100	3.2	100		15	8	2.2	
MDPQ 3.2-120	3.2	120	2900	18.5	8	2.5	
MDPQ 3.2-150	3.2	150		22	8	2.5	
MDPQ 3.2-100X2	3.2	200		30	8	2.5	
MDPQ 3.2-125X2	3.2	250		37	7	2.5	
MDPQ 3.2-150X2	3.2	300		45	7.1	2.5	
MDPQ 6.3-25	6.3	25	2900	3	22	2.5	40X25
MDPQ 6.3-40	6.3	40		5.5	20	2.5	
MDPQ 6.3-65	6.3	65		7.5	18	2.5	
MDPQ 6.3-80	6.3	80			16	2.5	
MDPQ 6.3-100	6.3	100		<^151	15	2.5	
MDPQ 6.3-120	6.3	120	2900	18.5	14	2.5	40X25
MDPQ 6.3-150	6.3	150		22	14	2.5	
MDPQ 6.3-100X2	6.3	200		30	13	2.5	
MDPQ 6.3-125X2	6.3	250		45	12	2.5	
MDPQ 6.3-150X2	6.3	300		55	11	2.5	
MDPQ 12.5-80	12.5	80	2900	18.5	22	2.5	50X32
MDPQ 12.5-100	12.5	100		22	19	2.5	
MDPQ 12.5-125	12.5	125		30	17	2.5	
MDPQ 12.5-150	12.5	150		37	16	2.5	
MDPQ 12.5-100X2	12.5	200		45	19	2.5	
MDPQ 12.5-125X2	12.5	250		55	18	2.5	
MDPQ 12.5-150X2	12.5	300	75	17	2.5		
MDPQ 25-80X2	25	160	2900	45	31	2.7	80X40
MDPQ 25-100X2	25	200		55	29	2.7	
MDPQ 25-125X2	25	250		75	28	2.7	
MDPQ 25-150X2	25	300		90	26	2.7	
MDPQ 25-175X2	25	350		110	25	2.7	
MDPQ 25-200X2	25	400		132	24	2.7	
MDPQ 40-150	40	150	2900	75	31	3.2	80X40
MDPQ 40-100X2	40	200		75	34	3.2	
MDPQ 40-125X2	40	250		90	33	3.2	
MDPQ 40-150X2	40	300		110	33	3.2	
MDPQ 40-175X2	40	350		132	32	3.2	
MDPQ 40-200X2	40	400		160	30	3.2	

注：性能超出此范围，可另行设计。

Note: We can special design for you if the pump is not including in this table.



## Highly Safe Chemical Process Pump Magnetic Drive Centrifugal Pumps

### Product Description:

MDP magnetic drive pump is a seal-less centrifugal pump. It is designed according to ISO 2858 standards, API 685 and GB/T 25140<sub>z</sub> compare with centrifugal pumps designed according to API 610 standard, it has no seal, so it is more reliable and safer.

As the second generation product of the CQ magnetic drive pump, this product has high degree of standardization, serialization, universality. Also, strong interchangeability of spare parts helps shorten the manufacturing cycle, improve the maintenance speed of equipment.

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**Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

Typical Uses:

The wearing part of MDP series pump is stainless steel, the pump can be used to transfer not only water, but also corrosive medium, expensive liquid or the other physical and chemical medium. The medium temperature should be within -120°C to 350°C. This product is widely apply to:

Chemical Industry	Petroleum Industry	Pharmaceutical Industry
Biological Industry	Nuclear Power Plant	Nonferrous Metal
Food Industry	Automotive Industry	Municipal Water Supply

## MEANING OF THE MODEL

例: MDP 50-32-160 A G L

EX:

- 分体式 (直联式不标注)
- "L" is coupling, no "L" is monobloc
- 特征号 (G:离温; T:低温; b:保温; Gb:高温保温; J:带监控. 数码双设定 保护器不标; (D:带诱导轮; 普通结构的不标注)
- Character Mark □ G:High temperature; T:Low temperature; b:Thermal retardation; Gb:High temperature&Thermal retardation; J:With monitor, if no mark then means Digital Dual Setting Protector; D: Low NPSHr.with inducer, if no mark then means Normal structure □
- 叶轮型式 (分别用A、B、C...表示. 原型不标注)
- Impeller cut sequence number
- 叶轮名义直径 (mm □)
- Impeller diameter □mm □
- 泵出口直径 (mm □)
- Outlet diameter □mm □
- 泵入口直径 (mm □)
- Inlet diameter □mm □
- 磁力传动泵
- Magnetic drive pump

## OPERATION PARAMETER

口径: DN25 ~ DN200mm

流量~400m<sup>3</sup>/h

扬程: 5~125m

转速: 2900r/min; 1450r/min

工作温度 (t □ : -120 ~ 350 C)

粘度: <math>\le 100\text{mm}^2/\text{s}</math>

压力 (PN □: DN  $\ge 40$ , PN=0.6MPa

DN  $\ge 50$ , PN=1.6MPa

电机功率: 0.75~132kW

Caliber: DN25 ~ DN200mm

Capacity: 3 ~ 400m<sup>3</sup>/h

Head: 5 ~ 125m

Rotate speed: 2900r/min; 1450r/min

Work temperature: -120  $\le$  t  $\le$  350 C

Viscosity:  $\le 100\text{mm}^2/\text{s}$

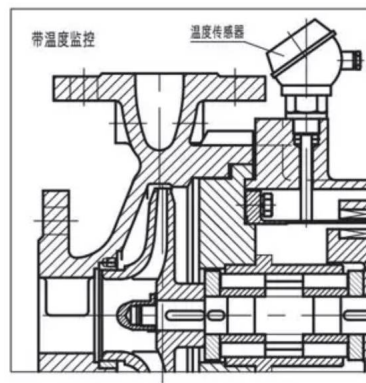
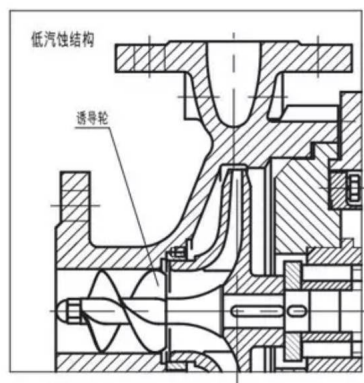
Pressure: DN  $\ge 40$ , PN=0.6MPa

DN  $\ge 50$ , PN=1.6MPa

Motor power: 0.75 ~ 132kW

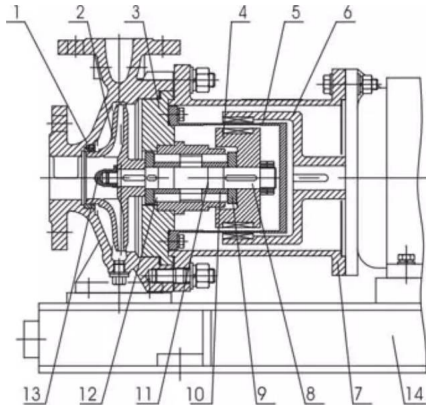
## 结构示意图及性能参数

## SKETCH MAP OF STRUCTURE & PERFORMANCE PARAMETER





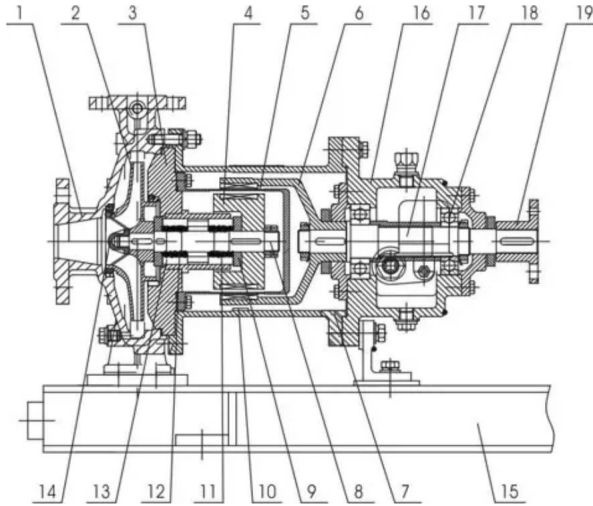
直联式  
MONOBLOCK TYPE



- 01 泵体 Casing
- 02叶轮 Impeller
- 03泵盖 Pump cover
- 04内磁总成 Inner magnetic part
- 05隔离套 Insulate sheath
- 06外磁总成 Outer magnetic part
- 07联接架 Connect frame
- 08泵轴 Shaft
- 09止推环 Thrust ring
- 10轴套 Shaft sleeve
- 11 补偿环 Compensating ring
- 12滑动轴承 Slide bearing
- 13叶轮螺母 Impell nut
- 14底座 Base plate

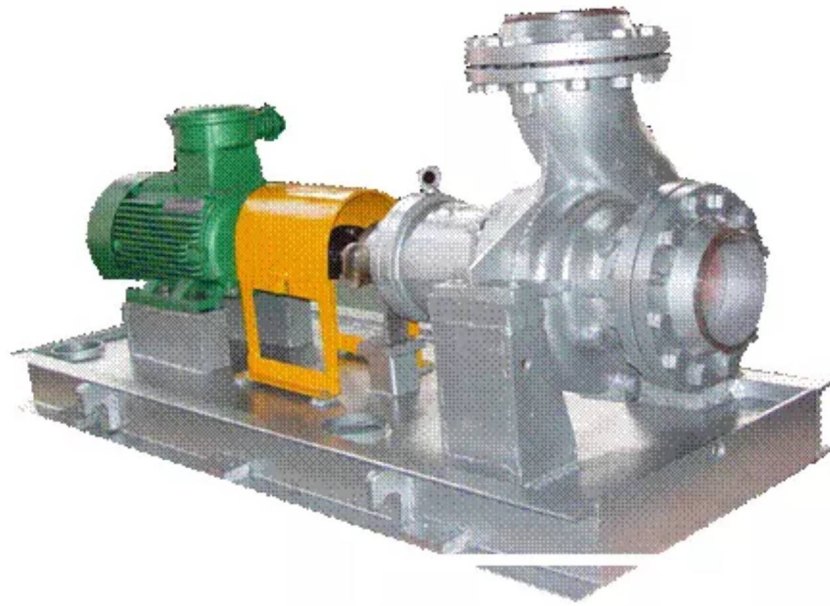
型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	转速 Rotate speed	电机功率 Motor power
MDP25-25-125	3	20	2.8	2900	1.5
MDP25-25-160		32	2.8		2.2
MDP32-32-105	4	12.5	2.8	2900	1.5
MDP32-32-125		20	2.8		1.5
MDP32-32-160		32	2.8		2.2
MDP40-40-105	6.3	12.5	3	2900	1.5
MDP40-40-125		20	3		2.2
MDP40-40-160		32	3		3
MDP40-40-200		50	3		5.5
MDP50-32-105	12.5	12.5	3	2900	2.2
MDP50-32-125		20	3		3
MDP50-32-160		32	3		4
MDP50-32-200		50	3		7.5
MDP50-32-250		80	3		15
MDP65-50-105	25	12.5	3	2900	3
MDP65-50-125		20	3		5.5
MDP65-50-160		32	3		7.5
MDP65-40-200		50	3		15
MDP65-40-250		80	3		22
MDP80-65-125	50	20	3.8	2900	7.5
MDP80-65-160		32	3.5		15
MDP80-50-200		50	3.5		18.5
MDP80-50-250		80	3.5		37
MDP80-50-315		125	3.5		45
MDP100-80-125	100	20	4.5	2900	15
MDP100-80-160		32	4.5		18.5
MDP100-65-200		50	4.2		30
MDP100-65-250		80	4.2		45
MDP100-65-315		125	4.2		90
MDP125-100-200	200	50	5.5	2900	55
MDP125-100-250		80	5.2		90
MDP125-100-315		125	5.2		132

分体式  
DIVIDED TYPE



- 01 泵体 Casing
- 02 叶轮 Impeller
- 03 泵盖 Pump cover
- 04 内磁总成 Inner magnetic part
- 05 隔离套 Insulate sheath
- 06 外磁总成 Outer magnetic part
- 07 联接架 Connect frame
- 08 泵轴 Shaft
- 09 止推环 Thrust ring
- 10 防磨环 Antifriction ring
- 11 轴套 Shaft sleeve
- 12 补偿环 Compensating ring
- 13 滑动轴承 Slide bearing
- 14 叶轮螺母 Impell nut
- 15 底座 Base plate
- 16 轴承箱 Bearing Box
- 17 驱动轴 Drive shaft
- 18 滚动轴承 Rolling bearing
- 19 联轴器 Coupling

型号 Model	流量 Capacity (m <sup>3</sup> /h)	扬程 Head (m)	必需汽蚀余量 NPSHr (m)	(r/min)	电机功率 Motor power (kW)
MDP50-32-125	6.3	5	2.7	1450	0.75
MDP50-32-160		8	2.7		0.75
MDP50-32-200		12.5	2.7		1.5
MDP50-32-250		20	2.7		3
MDP65-50-125	12.5	5	2.8	1450	0.75
MDP65-50-160		8	2.8		1.1
MDP65-40-200		12.5	2.8		2.2
MDP65-40-250		20	2.8		4
MDP65-40-315		32	2.8		7.5
MDP80-65-125	25	5	3	1450	1.1
MDP80-65-160		8	3		2.2
MDP80-50-200		12.5	3		3
MDP80-50-250		20	3		7.5
MDP80-50-315		32	3.5		11
MDP100-80-125	50	5	4	1450	2.2
MDP100-80-160		8	4		3
MDP100-65-200		12.5	3.5		5.5
MDP100-65-250		20	3.5		7.5
MDP100-65-315		32	3.5		15
MDP125-100-200	100	12.5	3.8	1450	11
MDP125-100-250		20	3.8		15
MDP125-100-315		32	3.8		30
MDP125-100-400		50	3.8		37
MDP150-125-250	200	20	4	1450	22
MDP150-125-315		32	4		37
MDP150-125-400		50	4		75
MDP200-150-250	400	20	4	1450	45
MDP200-150-315		32	4.5		75
MDP200-150-400		50	4.5		110



## API 685 Magnetic Drive Oil Chemical Process Pump

### Product Description:

The MDPE Magnetic Drive Oil Chemical Process Pump is the new type of pump that developed by Tengyu that has the domestic leading level. Compared with mechanically sealed ZA/ZE oil chemical process pump, MDPE pump has many incomparable advantages and provides a better choice for leak-free occasions in chemical process.

The MDPE adopts integrated planning design, the high level of generalization and serialization leads to easy interchangeability of parts. The hydraulic components are designed according to the excellent hydraulic model in Europe. The new structure

curve has no hump and the performance is stable. MDPE has very good cavitation resistance and greatly improved efficiency compared to other similar products on market. The MDPE pump is designed according to API610/API685 and other standards, it has unique advantages in petrochemical industry with high reliability and easy maintenance

## Product Description

### **Character:**

1. Using the one of the world's most outstanding hydraulic model to reduce energy consumption.
2. Using the high magnetic performance of permanent magnetic material to ensure enough magnetic torque.
3. The lower eddy current insulation sleeve design gives higher efficiency to the pump.
4. The specially designed lubrication cooling system and the automatic balance of axial force ensure the safe operation of the pump.
5. The sliding bearing is made of superior material and with the advanced hydrodynamic lubrication structure, the reliability of the pump and the life of the bearing are guaranteed.
6. Equipped with liquid break and overload automatic stop device, which can effectively prevent the magnetic pump idling dry grind and motor overload.

### **Typical Uses:**

The wearing part of MDPE series pump is stainless steel, the pump can be used to transfer not only water, but also corrosive medium, expensive liquid or the other physical and chemical medium. The medium temperature should be less or equal to 350°C. This product is widely apply to:

Chemical Industry	Petroleum Industry	Pharmaceutical Industry
Biological Industry	Nuclear Power Plant	Nonferrous Metal
Food Industry	Automotive Industry	Municipal Water Supply

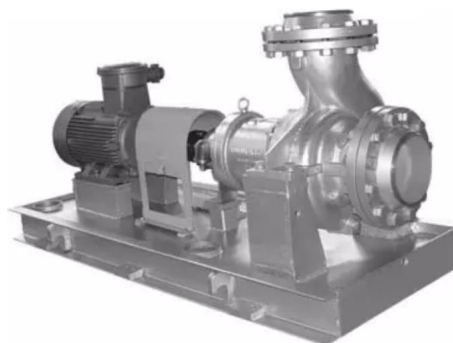
## GENERAL

MDPA\MDPE磁力传动石化流程泵是我公司最新开发研制的具有国内领先水平的一种新型泵。相比机械密封的ZANZE石化流程泵具有许多无可比拟的优势，为化工流程中的无泄漏场合提供了更好的选择。

产品采取整体规划的设计，通用化、系列化程度高，使得零件互换性较好。水力部件参照欧洲优秀的水力模型，运用计算机辅助设计进行优化设计，结构新颖特性曲线无驼峰，性能稳定。泵的抗汽蚀性能良好，效率与同类产品相比也有较大提高。产品参照API610\API685等标准进行规范设计，可靠性高、维护方便，在石油化工行业具有独特的优势。

The MDP\MDPE type magnetic drive oil chemical process pump is the new series which our company design and have the leading position in the internal.

Steady function, have good ability to resist cavitation erosion, more efficient than other pumps. The products are developed according to API610\API685. They have high reliability, convenience to maintain. and They have the advantages in petrol chemical field.



## APPLIED RANGE

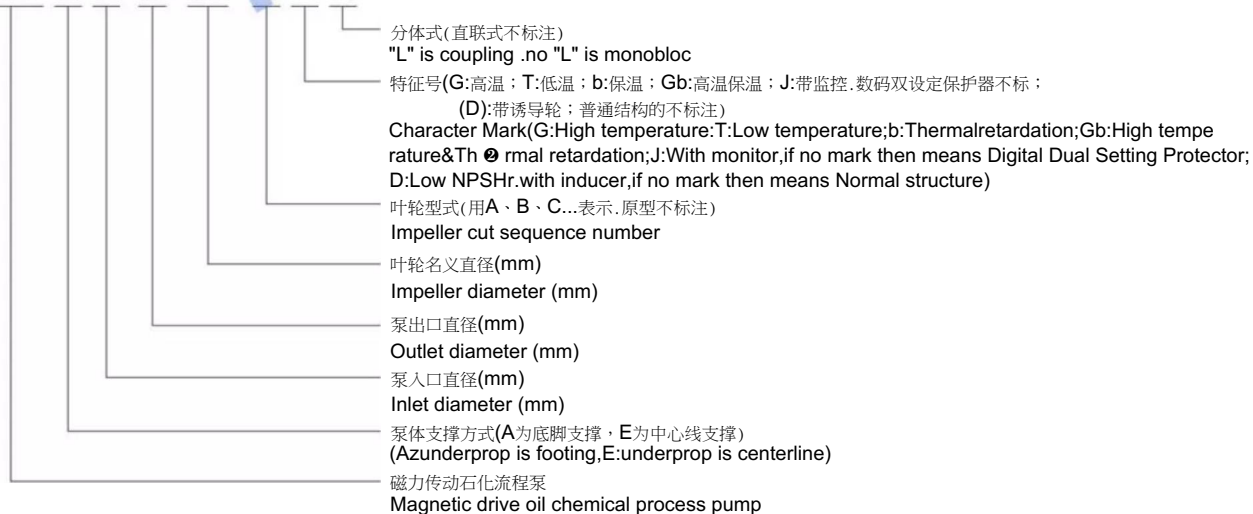
MDPA\MDPE磁力传动石化流程泵可广泛适用于石油、化工，生物制药、生物工程，核电站等各领域的生产流程中输送不含固体颗粒、比重不大于1.84的清洁液体，特别适用于易燃、易爆、有毒、有害、有腐蚀性、及贵重液体的介质输送。

The pump can be widely used in chemical industry, petrochemical industry, Pharmaceuticals, bioengineering, nuclear power station, etc. the liquid should be not include the particle (S.G.C 1.84). And it is special for pumping the inflammable, explosive, poisonous, deleterious, mordant and expansive liquid.

## MEANING OF THE MODEL

例：MDP A 80-40-160 A G L

EX:



(续)

型号 Model	叶型	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84	流量	扬程	比重	S.G.r=1	比重	S.G.r=1.35	比重	S.G.r=1.84
		Head	配套电机功率及型号 Motor power and model							Capacity	Head	配套电机功率及型号 Motor power and model					
	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	
80-40-200	A	29	53	15	160M2-2	18.5	160L-2	22	180M-2	14.5	13	2.2	100L1-4	2.2	100L1-4	4	112M-4
	B	26	47	11	160M1-2	15	160M2-2	22	180M-2	13	11.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	22	39	11	160M1-2	11	160M1-2	15	160M2-2	11.5	9	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	18	20	7.5	132S2-2	11	160M1-2	15	160M2-2	9.5	7	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-40-250	A	32	78	22	180M-2	30	300L1-2	37	200L2-2	16	19.5	3	100L2-4	4	112M-4	5.5	132S-4
	B	30	72	22	180M-2	30	300L1-2	37	200L2-2	15	18	3	100L2-4	4	112M-4	5.5	132S-4
	C	24	60	15	160M2-2	18.5	160L-2	30	300L1-2	12.5	14	2.2	100L1-4	3	100L2-4	4	112M-4
	D	21	47	11	160M1-2	15	160M2-2	18.5	160L-2	10.5	11	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-40-315	A	42	115	45	225M-2	75	280S-2	90	280M-2	21	29	7.5	132M-4	11	160M-4	15	160L-4
	B	40	107	45	225M-2	55	250M-2	75	280S-2	20	26.5	7.5	132M-4	11	160M-4	15	160L-4
	C	34	81	30	300L1-2	45	225M-2	55	250M-2	17.5	20	5.5	132S-4	7.5	132M-4	11	160M-4
	D	29	61	22	180M-2	30	300L1-2	37	200L2-2	15	15	4	112M-4	5.5	132S-4	7.5	132M-4
80-40-400	A	42.5	156	75	280S-2	90	280M-2	132	315M-2	21	39	11	160M-4	15	160L-4	18.5	180M-4
	B	42	126	55	250M-2	75	280S-2	110	315S-2	20	32	11	160M-4	11	160M-4	15	160L-4
	C	40	110	55	250M-2	75	280S-2	90	280M-2	19	28	7.5	132M-4	11	160M-4	15	160L-4
	D	37.5	82	37	200L2-2	55	250M-2	75	280S-2	18	20.5	5.5	132S-4	7.5	132M-4	11	160M-4
80-50-160	A	50	34	15	160M2-2	18.5	160L-2	22	180M-2	25	8.4	1.5	90L-4	2.2	100L1-4	3	100L2-4
	B	45	29	11	160M1-2	15	160M2-2	18.5	160L-2	22.5	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
	C	38	22	7.5	132S2-2	11	160M1-2	15	160M2-2	19	5.5	1.1	90S-4	1.5	90L-4	2.2	100L1-4
	D	31	17	5.5	132S1-2	7.5	132S2-2	11	160M1-2	16.5	4	1.1	90S-4	1.1	90S-4	1.5	90L-4
80-50-200	A	62	52	22	180M-2	30	300L1-2	37	200L2-2	31	13	3	100L2-4	4	112M-4	5.5	132S-4
	B	56	46	18.5	160L-2	22	180M-2	30	300L1-2	28.5	11.5	3	100L2-4	4	112M-4	5.5	132S-4
	C	49	37	15	160M2-2	18.5	160L-2	22	180M-2	25	9	2.2	100L1-4	3	100L2-4	4	112M-4
	D	43	28	11	160M1-2	15	160M2-2	18.5	160L-2	22	7	1.5	90L-4	2.2	100L1-4	3	100L2-4
80-50-250	A	70	82	37	200L2-2	45	225M-2	75	280S-2	35	20	5.5	132S-4	7.5	132M-4	11	160M-4
	B	66	75	37	200L2-2	45	225M-2	55	250M-2	33	18.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	60	60	30	300L1-2	37	200L2-2	45	225M-2	30	15	4	112M-4	5.5	132S-4	7.5	132M-4
	D	50	45	18.5	160L-2	22	180M-2	30	300L1-2	26	11	3	100L2-4	4	112M-4	5.5	132S-4
100-50-315	A	87	115	75	280S-2	90	280M-2	132	315M-2	44	28	15	160L-4	15	160L-4	18.5	180M-4
	B	80	100	55	250M-2	75	280S-2	110	315S-2	40	24	11	160M-4	15	160L-4	18.5	180M-4
	C	70	78	45	225M-2	55	250M-2	75	280S-2	35	19	7.5	132M-4	11	160M-4	15	160L-4
	D	57	57	30	300L1-2	37	200L2-2	55	250M-2	30	14	4	112M-4	5.5	132S-4	7.5	132M-4
100-50-400	A	82	194	132	315M-2					41	48	22	180L-4	30	200L-4	37	225S-4
	B	78	175	132	315M-2	160	315L1-2			39	43	18.5	180M-4	22	180L-4	30	200L-4
	C	70	140	90	280M-2	132	315M-2	160	315L1-2	35	34	15	160L-4	18.5	180M-4	22	180L-4
	D	60	102	75	280S-2	90	280M-2	132	315M-2	30	25	11	160M-4	15	160L-4	18.5	180M-4



(续)

型号 Model	Impeller	额定转速 Rating rotate speed n=2900r/min								额定转速 Rating rotate speed n=1450r/min							
		流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	流量	扬程	比重 S.G.r=1	比重 S.G.r=1.35	比重 S.G.r=1.84	
		Capaaty	Head	配套电机功率及型号 Motor power and model					Caparty	Head	配套电机功率及型号 Motor power and model						
		m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model	m <sup>3</sup> /h	m	kW	型号 Model	kW	型号 Model	kW	型号 Model
100-80-160	A	94	32	18.5	160L-2	22	180M-2	37	200L2-2	47	8	2.2	100L1-4	3	100L2-4	4	112M-4
	B	85	28	15	160M2-2	18.5	160L-2	30	300L1-2	42	7	2.2	100L1-4	3	100L2-4	4	112M-4
	C	76	23	15	160M2-2	15	160M2-2	18.5	160L-2	38	5.5	1.5	90L-4	2.2	100L1-4	3	100L2-4
	D	66	17	7.5	132S2-2	11	160M1-2	15	160M2-2	34	4	1.1	90S-4	1.5	90L-4	2.2	100L1-4
100-80-200	A	103	54	37	200L2-2	45	225M-2	55	250M-2	51	13.5	4	112M-4	5.5	132S-4	7.5	132M-4
	B	95	48	30	300L1-2	37	200L2-2	45	225M-2	47	12	4	112M-4	5.5	132S-4	7.5	132M-4
	C	84	38	18.5	160L-2	30	300L1-2	37	200L2-2	41	9.5	3	100L2-4	4	112M-4	5.5	132S-4
	D	70	30	15	160M2-2	18.5	160L-2	30	300L1-2	36	7.5	2.2	100L1-4	3	100L2-4	4	112M-4
100-80-250	A	127	82	55	250M-2	90	280M-2	110	315S-2	64	20	7.5	132M-4	11	160M-4	15	160L-4
	B	120	76	55	250M-2	75	280S-2	90	280M-2	60	19	7.5	132M-4	11	160M-4	15	160L-4
	C	105	59	37	200L2-2	55	250M-2	75	280S-2	52	14.5	5.5	132S-4	7.5	132M-4	11	160M-4
	D	87	45	30	300L1-2	37	200L2-2	45	225M-2	46	11	4	112M-4	5.5	132S-4	7.5	132M-4
100-80-315	A	141	127	110	315S-2	132	315M-2			70	33	18.5	180M-4	22	180L-4	30	200L-4
	B	135	121	90	280M-2	132	315M-2	160	315L1-2	66	30	15	160L-4	18.5	180M-4	30	200L-4
	C	115	97	75	280S-2	90	280M-2	132	315M-2	56	24	15	160L-4	15	160L-4	18.5	180M-4
	D	90	74	45	225M-2	55	250M-2	90	280M-2	45	18	7.5	132M-4	11	160M-4	15	160L-4
100-80-400	A	171	187							85	46	30	200L-4	37	225S-4	55	250M-4
	B	159	170							80	42	30	200L-4	37	225S-4	45	225M-4
	C	135	130	132	315M-2	160	315L1-2			65	33	18.5	180M-4	30	200L-4	37	225S-4
	D	116	95	90	280 M-2	110	315S-2	160	315L1-2	53	25	15	160L-4	18.5	180M-4	30	200L-4
100-100-160	A	162	29	30	300L1-2	37	200L2-2	45	225M-2	81	7.2	3	100L2-4	5.5	132S-4	7.5	132M-4
	B	150	24	18.5	160L-2	30	300L1-2	37	200L2-2	73	6	3	100L2-4	4	112M-4	5.5	132S-4
	C	130	17	15	160M2-2	18.5	160L-2	22	180M-2	63	4.3	2.2	100L1-4	4	112M-4	4	112M-4
	D	110	12	11	160M1-2	15	160M2-2	18.5	160L-2	55	3	1.5	90L-4	2.2	100L1-4	3	100L2-4
100-100-200	A	193	50	55	250M-2	75	280S-2	90	280M-2	95	12.5	7.5	132M-4	7.5	132M-4	11	160M-4
	B	180	44	45	225M-2	55	250M-2	75	280S-2	90	10.5	5.5	132S-4	7.5	132M-4	11	160M-4
	C	155	35	37	200L2-2	45	225M-2	55	250M-2	80	8.5	4	112M-4	5.5	132S-4	7.5	132M-4
	D	135	26	22	180M-2	30	300L1-2	37	200L2-2	70	6	3	100L2-4	4	112M-4	5.5	132S-4
150-100-250	A	230	79	90	280M-2	110	315S-2	160	315L1-2	115	20	15	160L-4	18.5	180M-4	22	180L-4
	B	218	73	90	280M-2	110	315S-2	132	315M-2	110	18	11	160M-4	15	160L-4	18.5	180M-4
	C	190	58	55	250M-2	75	280S-2	110	315S-2	100	14	7.5	132M-4	11	160M-4	15	160L-4
	D	170	44	45	225M-2	55	250M-2	90	280M-2	90	10	5.5	132S-4	7.5	132M-4	11	160M-4
150-100-315	A	250	126	160	315L1-2					125	31	22	180L-4	37	225S-4	45	225M-4
	B	240	120	160	315L1-2					119	29	22	180L-4	30	200L-4	37	225S-4
	C	203	97	110	315S-2	160	315L1-2			104	24	18.5	180M-4	22	180L-4	30	200L-4
	D	170	71	90	280M-2	110	315S-2	132	315M-2	86	17.5	15	160L-4	15	160L-4	18.5	180M-4

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