



Case 8

Malaysia Case 1st (Amero Brand Pump)

End Client: Petronas Carigali Sarawak Oil
Scope: Complete Overhaul at Tiande factory, with test
Order received/returned date: Nov 2021/Mar 2022

This pump used for HC Liquid, was supplied Jun 2017 to a local pump company, and subsequently exported to Malaysia under an Australian Brand call Amero Pump.

We have a request from our agent in 2021 supply spare parts identical with Amero Pumps. New pump was then proposed as we do not have clue of Amero design.

The client has a budget too low for a new pump, thus repairing it locally was the preferred choice. We are given a chance to propose as the original source of supply are exorbitantly priced. After checking, we found same record of pump duty supplied in 2017 and confirmed that this was our Tiande Pump.

We provided the prove and given a much lower and reasonable price. Since the pump was not in very good shape and was in Covid 19 period, our engineer cannot travel. The client finally accepted our proposal to send the pump to factory for overhaul.

TKMEL 0417 0106 | P-6420 LUV PUMP | REQUEST FOR QUOTATION

Tunku Maharan <maharan@btms.com.my>
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This message has been replied to or forwarded.

CDV P6420 Angli - Datasheet & Drawing.pdf

oo Day:

Dear Mr Gavin,

lease find attached P-6420 datasheet for your reference.

lease propose an identical pump with fast delivery for the above mentioned pump.

hould you require further information, please do not hesitate to contact us.

Sanks & Best Regards

Tunku Kadin

PUMP SPECIFICATIONS		PUMP DATA	
1. PUMP TYPE	CENTRIFUGAL	2. PUMP SIZE	150-150-150
3. PUMP MATERIAL	CAST IRON	4. PUMP WEIGHT	150 KG
5. PUMP SPEED	1450 RPM	6. PUMP VOLTAGE	380V
7. PUMP POWER	15 KW	8. PUMP EFFICIENCY	75%
9. PUMP HEAD	15 M	10. PUMP FLOW	150 M3/H
11. PUMP INLET	150 MM	12. PUMP OUTLET	150 MM
13. PUMP INLET PRESSURE	0.2 MPa	14. PUMP OUTLET PRESSURE	0.2 MPa
15. PUMP INLET TEMPERATURE	40°C	16. PUMP OUTLET TEMPERATURE	40°C
17. PUMP INLET QUALITY	GOOD	18. PUMP OUTLET QUALITY	GOOD
19. PUMP INLET NOISE	85 DB	20. PUMP OUTLET NOISE	85 DB
21. PUMP INLET VIBRATION	0.2 mm/s	22. PUMP OUTLET VIBRATION	0.2 mm/s
23. PUMP INLET CURRENT	15 A	24. PUMP OUTLET CURRENT	15 A
25. PUMP INLET PHASE	3 PHASE	26. PUMP OUTLET PHASE	3 PHASE
27. PUMP INLET FREQUENCY	50 Hz	28. PUMP OUTLET FREQUENCY	50 Hz
29. PUMP INLET VOLTAGE	380V	30. PUMP OUTLET VOLTAGE	380V
31. PUMP INLET CURRENT	15 A	32. PUMP OUTLET CURRENT	15 A
33. PUMP INLET PHASE	3 PHASE	34. PUMP OUTLET PHASE	3 PHASE
35. PUMP INLET FREQUENCY	50 Hz	36. PUMP OUTLET FREQUENCY	50 Hz
37. PUMP INLET VOLTAGE	380V	38. PUMP OUTLET VOLTAGE	380V
39. PUMP INLET CURRENT	15 A	40. PUMP OUTLET CURRENT	15 A
41. PUMP INLET PHASE	3 PHASE	42. PUMP OUTLET PHASE	3 PHASE
43. PUMP INLET FREQUENCY	50 Hz	44. PUMP OUTLET FREQUENCY	50 Hz
45. PUMP INLET VOLTAGE	380V	46. PUMP OUTLET VOLTAGE	380V
47. PUMP INLET CURRENT	15 A	48. PUMP OUTLET CURRENT	15 A
49. PUMP INLET PHASE	3 PHASE	50. PUMP OUTLET PHASE	3 PHASE
51. PUMP INLET FREQUENCY	50 Hz	52. PUMP OUTLET FREQUENCY	50 Hz
53. PUMP INLET VOLTAGE	380V	54. PUMP OUTLET VOLTAGE	380V
55. PUMP INLET CURRENT	15 A	56. PUMP OUTLET CURRENT	15 A
57. PUMP INLET PHASE	3 PHASE	58. PUMP OUTLET PHASE	3 PHASE
59. PUMP INLET FREQUENCY	50 Hz	60. PUMP OUTLET FREQUENCY	50 Hz
61. PUMP INLET VOLTAGE	380V	62. PUMP OUTLET VOLTAGE	380V
63. PUMP INLET CURRENT	15 A	64. PUMP OUTLET CURRENT	15 A
65. PUMP INLET PHASE	3 PHASE	66. PUMP OUTLET PHASE	3 PHASE
67. PUMP INLET FREQUENCY	50 Hz	68. PUMP OUTLET FREQUENCY	50 Hz
69. PUMP INLET VOLTAGE	380V	70. PUMP OUTLET VOLTAGE	380V
71. PUMP INLET CURRENT	15 A	72. PUMP OUTLET CURRENT	15 A
73. PUMP INLET PHASE	3 PHASE	74. PUMP OUTLET PHASE	3 PHASE
75. PUMP INLET FREQUENCY	50 Hz	76. PUMP OUTLET FREQUENCY	50 Hz
77. PUMP INLET VOLTAGE	380V	78. PUMP OUTLET VOLTAGE	380V
79. PUMP INLET CURRENT	15 A	80. PUMP OUTLET CURRENT	15 A
81. PUMP INLET PHASE	3 PHASE	82. PUMP OUTLET PHASE	3 PHASE
83. PUMP INLET FREQUENCY	50 Hz	84. PUMP OUTLET FREQUENCY	50 Hz
85. PUMP INLET VOLTAGE	380V	86. PUMP OUTLET VOLTAGE	380V
87. PUMP INLET CURRENT	15 A	88. PUMP OUTLET CURRENT	15 A
89. PUMP INLET PHASE	3 PHASE	90. PUMP OUTLET PHASE	3 PHASE
91. PUMP INLET FREQUENCY	50 Hz	92. PUMP OUTLET FREQUENCY	50 Hz
93. PUMP INLET VOLTAGE	380V	94. PUMP OUTLET VOLTAGE	380V
95. PUMP INLET CURRENT	15 A	96. PUMP OUTLET CURRENT	15 A
97. PUMP INLET PHASE	3 PHASE	98. PUMP OUTLET PHASE	3 PHASE
99. PUMP INLET FREQUENCY	50 Hz	100. PUMP OUTLET FREQUENCY	50 Hz



NPSH test



performance test



VIBRATE TEMPERATUI
NOISE AT 70% FLOW



VIBRATE TEMPERATURE
NOISE AT 110% FLOW



VIBRATE TEMPERATURE
NOISE AT 120% FLOW



VIBRATE TEMPERATUI
NOISE AT MIN FLOW



VIBRATE TEMPERATURE
NOISE AT RATED FLOW

**Factory test video,
witnessed by Client
on Team online**



Malaysia Case 2nd (Replacement Gearbox)

End Client: PETRONAS Carigali Sdn Bhd (PCSB)
 Scope: Gearbox direct replacement for LMV 311-22-70SCS2SS (Spine shaft),
 with test
 Order received/returned date: Jun 2024/Dec 2024

This pump was supplied by Nikkiso Sundstrand Japan at least 30 years ago.
 The motor are of very old design which no longer sold in the market.

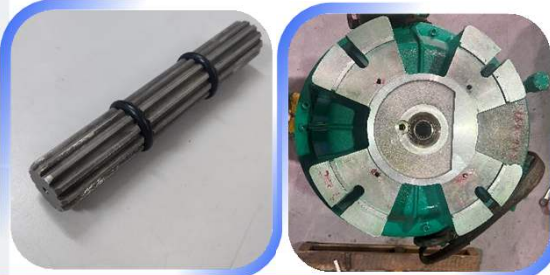
We have supplied the identical Gearbox, installed at Agent's workshop and
 Performance tested in Malaysia.

When we supplied, the spine shaft slot depth and motor dimensions were
 not in our consideration. Modifications were made during installation at the
 workshop, and finally it was also performance tested, witnessed by end client.
 Job completed successfully with 7% head differences.

Take away
 Earlier Stage of enquiry, client has
 to provide

- Original Data sheet
- Existing Motor details

Note:
 Gearbox speed could be slightly
 different as it is made by a
 different manufacturer





Case 10

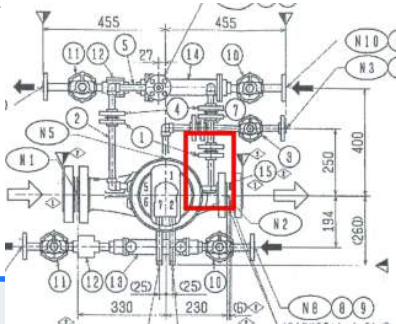
Malaysia Case 3rd (Replacement Bareshaft Pump)

End Client: FPG Oleochemicals Sdn Bhd
 Scope: Direct replacement of existing LMV322, with test
 Order received/returned date: Sept 2024/Dec 2024

This pump used for Fatty Alcohol C16C18, was supplied by Nikkiso Sundstrand Japan. The client was told that Sundyne will no longer produce the parts in Japan in 2 years, and to support the MRO, Sundyne has exchange program to replacement of existing pump.

As the price do not come cheap, Alternative from Tiande Pump becomes a good choice of supply.

Tiande and its agent invited and sponsored for the trip for this customer to visit the factory to do witness testing and evaluation of the factory facility and capability. Job completed successfully without orifice vs existing with orifice.



Factory Test

Take away

Earlier Stage of enquiry, client has to provide

- Original Data sheet
- Shaft end & Coupling details (Or we could supply new coupling and motor adapter)
- Pump piping arrangement at site with specific measurements to follow
- Flange type & base mounting type
- Flange face to face connection length to ensure

Performance Table of Sundyne Pump Repair in Recent Years

Num.	Company Name	Item	Service	Tiande Model	Original Model	Remark	Factory Time
1	Jiangsu Hailun Petrochemical Co., LTD				HMP-7000	overcurrent component modification	2012.02
2	Sinopec Tianjin branch	502-P-103A/B	waterflood pump		LMV-346	gearbox modification	2013.05
3	Luoyang Branch			GSB-L3-52/1072	LMV341	replacement of gearbox and overcurrent part	2013.05
4	Luoyang Branch				LMV-311	replacement of gearbox and overcurrent part	2013.05
5	Luoyang Branch				LMV-333	gearbox replacement	2013.05
6	Xinhai Petrochemical Co., LTD	1305-P-001AB	hydrogen feed pump	GSB-L1-5/613	LMV-322	overcurrent component	2014.05
7	Harbin Petrochemical Company	P-306-1	waterflood pump		BMP-311	gearbox replacement	2017.06
8	Petronas Corporation (Dalian Ross Pump industry agent)	/	/	GSB-L2-18/682	LMV-311	overall transformation	2017.08
9	Lotte Chemical (Jiaxing) Co., LTD	P-114	NH3 solution transfer pump	GSB-L2-37/313	LMV-311	overall transformation	2018.12
10	Jiutai Energy (Junger) Co., LTD	G-5270			LMV-311	gearbox and seal	2018.03
11	Zhenjiang Li Changrong integrated petrochemical Industry Co., LTD	P-6501C		GSB-L2-23/476	LMV-311	gearbox and overcurrent component modification	2018.06
12	Baoding Hengda pump Co., LTD (Henan Longyu Coal Chemical Co., LTD.)	P-3302AB	high pressure process pump	GSB-L2-21/607	LMV-311	overall transformation	2019.04
13	Yadong Petrochemical (Shanghai) Co., LTD	P301A	compressor	LMC-331F-250-336	LMC-331F-250-336	overall transformation	2019.01
14	Cnooc Refinery Co., LTD. Huizhou Refinery Branch				HMP3512	overcurrent component modification	2019.06
15	Cnooc Refinery Co., LTD. Huizhou Refinery Branch	108-P-103			LMV341	overcurrent component modification	2019.06

Performance Table of Sundyne Pump Repair in Recent Years

Num.	Company Name	Item	Service	Tiande Model	Original Model	Remark	Factory Time
16	CNOOC Huizhou refinery branch	107-P-103			LMV341	gearbox replacement	2019.06
17	Jiutai Energy (Junger) Co., LTD	G-5269/G-5270	propylene recovery pump	GSB-L2-17/490	LMV-311	overall transformation	2019.08
18	Yadong Petrochemical (Shanghai) Co., LTD		high speed compressor		LMC-331F-250-336	gearbox replacement	2019.09
19	Luoyang Branch	0203-P-5127A/B	Deethane tower feed pump	GSB-L1-9/447	LMV-322	gearbox replacement	2020.01
20	Luoyang Branch	P421A/B	Butene transfer pump	GSB-L1-5/480	LMV-322	gearbox replacement	2020.01
21	(Elida Mechanical Seal Co., LTD.) Yadong Petrochemical (Shanghai) Co., LTD	P301B	high speed compressor	LMC-331F-250-336	LMC-331F-250-336	overall transformation	2020.01
22	CEPSR Shanghai	J-3543B	High-Speed Pump	GSB-L2-45/387	LMV-311	gearbox and overcurrent component modification	2020.11
24	Tangshan Zhongrun Coal Chemical Co., LTD	E67-0059A-1.2			LMV-311	gearbox and mechanical seal	2020.09
25	Sinopec Dagang Petrochemical Branch	P-301A/B	Propylene feed pump	GSB-L2-65/560	LMV-311	overall transformation	2021.01
26	Yadong Petrochemical (Shanghai) Co., LTD	G-1606	PTA feed pump	GSB-L1-16/182	LMV-322	overall transformation	2021.12
27	Yadong Petrochemical (Shanghai) Co., LTD	G-1816	flush water pump	GSB-L2-35/625	LMV-311	overall transformation	2021.08
28	Cnooc Taizhou Petrochemical Company	P-12216054	high pressure water-injection pump	GSB-L3-20/1370	LMV-346	overall transformation	2022.04
29	Cnooc Taizhou Petrochemical Company	P-12216054B	high pressure water-injection pump	GSB-L3-20/1370	LMV-346	overall transformation	2022.11
30	Zhongke (Guangdong) Refinery & Petrochemical Co., Ltd	P-4102A	High-Speed Pump	GSB-L3-14/1295	LMV-346	gearbox modification	2023.07

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
1	Sinopec zhongyuan general factory				TL0.6-50	water	0.2	54	40	980	carbon steel	2002.6.30
2	Sinopec zhongyuan general factory				TL1-120	water	1.05	120	40	979	carbon steel	2002.6.30
3	Sinopec zhongyuan general factory				TL3-120	aromatic hydrocarbon	2.25	120	40	845	SS	2002.6.30
4	Sinopec zhongyuan general factory				TL0.6-50	water	0.3	54	115	914	carbon steel	2002.6.30
5	Sinopec zhongyuan general factory				TL1-65	6#solvent oil	0.625	70	95	680	SS	2002.6.30
6	Sinopec zhongyuan general factory				TL3-100	lye	3	100	normal	980	SS	2006.6.30
7	Sinopec Yueyang Shell		P3303A/B		GSB-3/570	process water	3.24	565	40/50	993	1Cr18Ni9Ti	2004.11.20
8	Sinopec Anqing branch		P-3303A/B		GSB-3/570	process water	4.82	565	40/50	993	1Cr18Ni9Ti	2004.11.20
9	Sinopec Hubei fertilizer Branch		P-3303A/B		GSB-3/570	process water	4.82	565	40/50	993	1Cr18Ni9Ti	2004.11.20
10	Beijing Chemical Research Institute of Sinopec				TL0.6-20	heptane+catalytic agent	0.2~0.8	18~20		600~800	304	2004.12.10
11	Sinopec		P-1003A/B	Deethane tower feed pump	GSB-13/300	C3、C4	13	300	44.8	466	45	2005.12.4
12	Sinopec Ningbo Engineering		P-1202	Oily waste water pump	TL1-65	oily wastewater	1	65	100	984	304	2006.2.20
13	Sinopec Ningbo Engineering		P-1301A/B	Finished oil pump	TL12-45	oil product	12.5	40	180	695	304	2006.2.20
14	CNPC Qingyang Petrochemical Company		P-104/1、2	Propylene raw material pump	GSB-40/460	propylene	40	460	21.3/22.8/40	545	1Cr18Ni19Ti	2006.2.10
15	Sinopec Anqing branch			Process waste water pump	TL3-80	process water	1.5	78	120	944	316	2006.6.28

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
16	Sinopec Beijing Yanshan branch		P-4102A/B	raw oil pump	GSB-25/620	Light and heavy naphtha/aromatic extraction of residual oil, liquefied gas	28	574	40	500/568/720	S.S	2006.10.8
17	Sinopec Qingdao Refining and Chemical Co., LTD		1116-P-101	raw oil pump	GSB-17/480	naphtha	15.8/17.4	472	80	648	321 (SS)	2007.2.8
18	Sinopec Qingdao Refining and Chemical Co., LTD		1112-P-102A/B	Methanol feedstock pump	GFB-8/185	methyl alcohol	7.73	185	35/40/45	768	321	2007.4.5
19	Sinopec Qingdao Refining and Chemical Co., LTD		1112-P-102A/B	Extraction pump	GFB-6/95	extraction water	5.81	92	60/70/90	948.3	321	2007.4.5
20	Sinopec Qingdao Refining and Chemical Co., LTD		1106-P-122	flush water pump	GFB-10/350	diesel oil	8	350	40/60/100	844	321	2007.4.5
21	Sinopec Qingdao Refining and Chemical Co., LTD		1140-P-103	Acid water pump	GFB-10/90	condensate	10	88	80/150	1000	1Cr18Ni9Ti	2007.4.5
22	CNPC Qilu branch			Centrifugal pump	TL6-45	softened water	6	45			304	2007.3.28
23	CNPC Jiujiang branch		P-122/3		GSB-F-6/150	sump oil	6	150	120	930	304	2007.5.6
24	Sinopec Ningbo Engineering		6482-P003A/B/C	fuel oil pump	GSB-25/310	fuel oil	25	310	80	1010/850	A-7	2007.9.25
25	Tianjin Branch of Sinopec	650,000 tons/year cracked gasoline hydrogenation unit	P-750A/B	A hydrogenation feed pump	GSB-Q-84/340	C6-C8	84	341	43	834	A-7	2008.6.1
26	Tianjin Branch of Sinopec	1.3 million tons/year wax oil hydrogenation unit	503-P-301A/B	Low gas desulphurization pump	GSB-Q-90/315	ammonia-poor solution	88.9	313.5	75	990	A-7	2008.7.10
27	Sinopec Ningbo Engineering	CPP ethylene and PE overall renovation project of Shenyang Paraffin Chemical Co., LTD	P-10801A/B	Isopentane transfer pump	GSB-F-3/150	isopentane	2	150	20	621.5	304	2008.6.1
28	Sinopec Ningbo Engineering	CPP ethylene and PE overall renovation project of Shenyang Paraffin Chemical Co., LTD	P-10901A/B	hexene-1 delivery pump	GSB-F-3/150	hexene-1	3	150	20	672.3	304	2008.6.1
29	Sinopec Ningbo Engineering	CPP ethylene and PE overall renovation project of Shenyang Paraffin Chemical Co., LTD	P-11101A/B	Methanol transfer pump	GSB-F-2.5/115	methyl alcohol	2.5	115	20	791.2	304	2008.6.1
30	CNPC Beijing Yanshan Branch		153-J/JA	Triisalkylation feed pump	GSB-F-1.5/330	DIPB, TIPB	1.2	330	176.2	763	A-7	2008.9.15

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
31	China Petrochemical Zhenhai Refining and Chemical Company	1 million tons/year ethylene project MTBE butene-1 plant	107-P-112	Torch dispenser pump	GSB-F-9/135	hydrocarbon	10	130	40	568.56	304	2008.11.10
32	Sinopec Shanghai Engineering	Sinopec Tianjin 1 million tons/year ethylene and supporting project 350,000 tons/year phenol acetone plant	706-P-113	Torch dispenser pump	GSB-Q-5/170	propylene	4.8	170	50	490.2		2008.12.5
33	Sinopec Shanghai Engineering	Sinopec Tianjin 1 million tons/year ethylene and supporting project 350,000 tons/year phenol acetone plant	706-P-425A/B	Desuperheater condensate pump	GSB-F-14/185	condensate	13.6	185	100	959		2008.12.5
34	Sinopec Shanghai Engineering	Sinopec Tianjin 1 million tons/year ethylene and supporting project 350,000 tons/year phenol acetone plant	706-P-501A/B	Phenol-containing wastewater output pump	GSB-F-8/100	water, alkali, phenol	7.67	100	38	1004		2008.12.5
35	Sinopec Shanghai Engineering	Sinopec Tianjin 1 million tons/year ethylene and supporting project 350,000 tons/year phenol acetone plant	706-P-506A/B	Propofol -Ams alkaline washing tower circulating pump	GSB-F-7/110	aromatic hydrocarbon	6.8	110	44	841		2008.12.5
36	Sinopec Engineering Incorporation	Alkali residue treatment device of Puguang natural gas purification plant	777-P-101A/B	Reactor feed pump	GSB-F-3/350	spent lye	3.06	350	45	1060	A-8	2009.3.10
37	Sinopec Engineering Incorporation	Alkali residue treatment device of Puguang natural gas purification plant	777-P-104A/B	Waste lye transfer pump	TL4-50	deodorizing waste lye	4	50	90	1050	A-8	2009.3.10
38	Sinopec Ningbo Engineering	300,000 tons/year polyethylene plant	G-5212/G-5213	Low pressure condensate return pump	TL3-85	HEXENE	2.63	83	40-1110	680	A-7	2009.7.15
39	Sinopec Ningbo Engineering	300,000 tons/year polyethylene plant	G9503	High pressure flare gas condensate pump	GSB-F-5/155	1-hexene	5	154.2	30	627	A-7	2009.7.15
40	Sinopec Engineering Incorporation	Zhongyuan oilfield Puguang branch gas purification plant	200-P-504AB	condensate pump	TL4-105	condensed water	3.4	100	95/100	1000	A-7	2009.12.5
41	Sinopec Shanghai Petrochemical	1# glycol device	G-222AN/BN	Regenerator condensate pump	GSB-Q-34/260	water	34	260	45	987	A-7	2010.8.30
42	Sinopec Shanghai Engineering	Sinopec Beihai Refinery off-site transformation petrochemical project 2.6 million tons/year diesel hydrogenation unit	0215-P-103A/B	water injection pump	GSB-Q-22/790	demineralized water	21.6	786	40	992	A-7	2010.11.30
43	Sinopec Shanghai Engineering	Sinopec Beihai Refinery off-site transformation petrochemical project 2.6 million tons/year diesel hydrogenation unit	0215-P-104A/B	Lean amine pump for gasoline hydrogenation	GSB-F-11/180	MEDA solution	11	180	55	990.50	A-7	2010.11.30
44	Sinopec Shanghai Engineering	Sinopec Beihai Refinery off-site transformation petrochemical project 2.6 million tons/year diesel hydrogenation unit	0239-P-102A/B	water injection pump	GSB-F-3/204	demineralized water	2.2	204	40	992.3	A-7	2010.11.30
45	Jingmen Branch of Sinopec	1.8 million tons/year diesel hydrofining unit	P-103A/B	reactive injection pump	GSB-Q-24/874	demineralized water, purified water	24	874	50	968.6	A-7	2011.4.30

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
46	Sinopec Shanghai Engineering	Sinopec Beihai refinery off-site renovation petrochemical project product refining unit	0234-P-303A/B	Lean (solution)pump II	GSB-Q-60/250	barren liquor	59.7	250	40	1016	A-7	2011.2.20
47	Sinopec Shanghai Engineering	Sinopec Beihai refinery off-site renovation petrochemical project product refining unit	0234-P-301AB	Mixed liquid fossil oil and gas feed pump	GSB-F-37/210	LPG	36.3	210	40	562	A-7	2011.2.20
48	Sinopec Shanghai Engineering	Sinopec Beihai refinery off-site renovation petrochemical project product refining unit	0234-P-307	Demineralized water refill pump	GSB-F-18/205	demineralized water	18	205	40	1000	A-7	2011.2.20
49	Sinopec Shanghai Engineering	Sinopec Beihai refinery off-site renovation petrochemical project product refining unit	0234-P-501AB	Lye retrofit pump	GSB-F-8/205	Catalyst lye	7.7	203	40	1208	A-7	2011.2.20
50	Sinopec Shanghai Engineering	Sinopec Beihai refinery off-site renovation petrochemical project product refining unit	0234-P-603AB	Recycled lye pump	GSB-F-6/120	Catalyst lye	5.7	117	40	1200	A-7	2011.2.20
51	Sinopec Shanghai Engineering	Sinopec Beihai refinery off-site renovation petrochemical project product refining unit	0234-P-604AB	Naphtha circulation pump	GSB-F-24/185	Sour naphtha	23.4	185	40	716.2	A-7	2011.2.20
52	Sinopec Shanghai Engineering	Sinopec Beihai refinery off-site renovation petrochemical project product refining unit	0234-P-701AB	Feeding pump	GSB-F-1.5/335	spent lye	1.1	335	40	1153	A-7	2011.2.20
53	Sinopec Jinling Branch	Oil quality upgrading project 8 million tons/year atmospheric and vacuum equipment	P-1031B	Heavy fouling oil pump	GSB-F-6/230	heavy fouling oil	6	230	150	850	A-7	2011.6.1
54	Sinopec Jinling Branch	Oil quality upgrading project 8 million tons/year atmospheric and vacuum equipment	P-1028A/B	Flushing oil pump	GSB-F-4/400	diesel oil	4	400	40	800	A-7	2011.6.1
55	Sinopec Jinling Branch	Oil quality upgrading project 8 million tons/year atmospheric and vacuum equipment	P-1007A/B	Constant top light oil pump	GSB-F-26/260	Standing Top Light Oil	26	260	40	699	A-7	2011.6.1
56	Sinopec Jinling Branch	Oil quality upgrading project 8 million tons/year atmospheric and vacuum equipment	P-2005A/B	Liquefied gas pump	GSB-F-17/330	LPG	17	330	40	523	A-7	2011.6.1
57	Sinopec Qingdao Refining and Chemical	2 million tons/year hydrocracking unit and supporting system project	2121-P-111/A,B	Low pressure injection pump	GSB-Q-25/295	demineralized water	25	291.2	40	980	A-7	2011.8.1
58	Sinopec Qingdao Refining and Chemical	2 million tons/year hydrocracking unit and supporting system project	2121-P-401/A,B	Low gas desulfurization and lean ammonia pump	GSB-Q-34/275	Ammonia-poor solution	34	275	55	1020	A-7	2011.8.1
59	Sinopec Qingdao Refining and Chemical	2 million tons/year hydrocracking unit and supporting system project	2121-P-210/A,B	Tail oil pump	GSB-F-1.8/100	condensed water	1.8	100	140/230	764	A-7	2011.8.1
60	Sinopec Wuhan Branch	800,000 tons/year ethylene engineering raw material tank farm	3540-P-007A/S	hexene-1 Delivery pump	GSB-F-9/155	hexene	9	151	normal	665	A-7	2011.8.20

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
61	Sinopec Wuhan Branch	800,000 tons/year ethylene engineering raw material tank farm	3540-P-008	hexene-1 Delivery pump	GSB-F-4/125	butene	3.6	121	normal	665	A-7	2011.8.20
62	Sinopec Wuhan Branch	800,000 tons/year ethylene engineering raw material tank farm	3550-P-004A/B	Isopentane transfer pump	GSB-F-74/135	isopentane	4.1	132	normal	612	A-7	2011.8.20
63	Sinopec Shanghai Petrochemical		P4001A/B	Accident wastewater lift pump	TLF10-20	industrial wastewater	10	20	50	985	S-5	2011.5.10
64	Sinopec Shanghai Petrochemical		P4006A/B	Pollution storm water pump	TLF15-20	industrial wastewater	15	20	50	950	S-5	2011.5.10
65	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project MTBE device	1611P1202A/B	Methanol feedstock pump	GSB-F-1.5/180	methyl alcohol	1.5	181	40.4	799	A-7	2011.7.23
66	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project MTBE device	1611P1205A/B	Extraction pump	GSB-F-5/110	water+methyl alcohol	4.8	110	40.4	875	A-7	2011.7.23
67	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project MTBE device	1611P1206A/B	Methanol recovery tower reflux pump	GSB-F-8/95	methyl alcohol	7.9	93	40	760	A-7	2011.7.23
68	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project MTBE device	1611P1207	Start-stop pumping out pump	GSB-F-6/110	MTBE,C4 absolute methanol	5.4	85	40	707	A-7	2011.7.23
69	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project MTBE device	1611P1301A/B	Carbon 4 feedstock feed pump	GSB-Q-37/310	mix C4	37.1	309	42	576	A-7	2011.7.23
70	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project MTBE device	1611P1405A/B	Butene-1 distillation column tank pump	GSB-Q-30/395	butene-2	30	392	61	554	A-7	2011.7.23
71	Sinopec Engineering Incorporation	Sinopec Wuhan Branch 800,000 tons/year ethylene plant 550,000 tons/year cracked gasoline hydrogenation unit	P-730A/S	Carbon 9 hydrogenation feed pump	GSB-Q-14/455	C5raffinate oil/ C9	13.2/18.2	455/332	43/45	652.1/879 .4	A-7	2011.12.15
72	Sinopec Engineering Incorporation	Sinopec Wuhan Branch 800,000 tons/year ethylene plant 550,000 tons/year cracked gasoline hydrogenation unit	P-733A/S	Hydrogenation carbon 9 product pump	GSB-F-19/180	C5/C9	18.5	178	45	651.1/876 .7	A-7	2011.12.15
73	Sinopec Engineering Incorporation	Sinopec Wuhan Branch 800,000 tons/year ethylene plant 550,000 tons/year cracked gasoline hydrogenation unit	P-750A/S	A hydrogenation feed pump	GSB-Q-63/350	C6-C8	63	349	43	837.4	A-7	2011.12.15
74	Sinopec Engineering Incorporation	Sinopec Wuhan Branch 800,000 tons/year ethylene plant 550,000 tons/year cracked gasoline hydrogenation unit	1100-P-205A/S	Lye feed pump	GSB-F-9/190	20% lye	8.84	190	75	1205	A-7	2011.12.15
75	Sinopec Engineering Incorporation	1.5 million tons/year catalytic cracking ethylene plant reaction regeneration unit	900-P-4440A/B	Alkali feed pump	GSB-F-17/210	20% lye	16.5	210	11	1230	A-7	2012.6.20

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT °C	Medium Density kg/m3	Pump Material	Factory Time
76	Sinopec Nanjing Chemical Industry Co., LTD	New 100,000 tons/year cyclohexanone device	01P0101a,b	High pressure benzene feed pump	GSB-Q-20/500	benzene	20	500	84/100	804	A-7	2012.5.30
77	Sinopec Nanjing Chemical Industry Co., LTD	New 100,000 tons/year cyclohexanone device	04P0102a,b	Cyclohexane pump	GSB-Q-20/500	hexamethylene	20	500	25/40	780	A-7	2012.5.30
78	Shijiazhuang Refining and Chemical branch of Sinopec	Oil quality upgrade and crude oil inferior quality transformation project 2.2 million tons/year catalytic cracking unit	321-P-208A/B	Rich water washing water pump	GSB-F-18/240	purified water	18	240	40	992	A-7	2012.6.15
79	Shijiazhuang Refining and Chemical branch of Sinopec	Oil quality upgrade and crude oil inferior transformation project 1.5 million tons/year residual oil hydrotreating unit	342-P-108A/B	Low pressure injection pump	GSB-Q-36/325	purified water	36	324	45/65	974	A-7	2012.6.15
80	Shijiazhuang Refining and Chemical branch of Sinopec	Oil quality upgrade and crude oil inferior transformation storage and transportation system 407 unit	407-P-002	Unqualified propylene pump	GSB-Q-11/400	propylene	11	335	40/-2	554	A-7	2012.6.15
81	Shijiazhuang Refining and Chemical branch of Sinopec	Oil quality upgrade and crude oil inferior transformation storage and transportation system 402 unit	402-P-002	Raw material of new gas distributor/replenishment pump of old gas distributor	GSB-F-24/225	liquefied gas	24	222	50/-6.7	536	A-7	2012.6.15
82	Shijiazhuang Refining and Chemical branch of Sinopec	Oil quality upgrade and crude oil inferior transformation storage and transportation system 402 unit	402-P-003	Charge pump for old gas separation unit	GSB-F-24/225	liquefied gas	24	222	50/-6.7	536	A-7	2012.6.15
83	Sinopec Luoyang Petrochemical Engineering Company	600,000 tons/year DMT0 combined unit for olefin separation	800P2411A/B	tank cleaning pump	GSB-F-3/170	gas	3	167	45	851	A-7	2012.7.30
84	Sinopec Luoyang Petrochemical Engineering Company	600,000 tons/year DMT0 combined unit for olefin separation	800P2420A/B	Reactor compressor two-stage hydrocarbon condensate pump	GSB-F-2/255	hydrocarbon	1.7	254	37.7	869	A-7	2012.7.30
85	Sinopec Luoyang Petrochemical Engineering Company	600,000 tons/year DMT0 combined unit for olefin separation	800P2602A/B	C2 green oil separation tank bottom	GSB-Q-5/270	C2-hydrocarbon	5	267	-31.6	444	A-8	2012.7.30
86	Sinopec Shanghai Engineering	Shenhua Baotou carbon 4 comprehensive utilization project 2-PH device	1611-P-1503A/B	Evaporator residue pump	GSB-F-9/200	valeraldehyde, catalytic agent	8.6	201	110	830	A-7	2012.8.25
87	Sinopec Shanghai Engineering	Shenhua Baotou carbon 4 comprehensive utilization project 2-PH device	1611-P-1507A/B	C4 recovery pump	GSB-F-22/220	butene, butane	21.1	220	90	565	A-7	2012.8.25
88	Sinopec Shanghai Engineering	Shenhua Baotou carbon 4 comprehensive utilization project 2-PH device	1611-P-1604A/B	Valeraldehyde pump	GSB-F-8/105	valeraldehyde	8	105	90	785	A-7	2012.8.25
89	Sinopec Shanghai Engineering	Shenhua Baotou carbon 4 comprehensive utilization project 2-PH device	1611-P-1604A/B	LPH feeding pump	GSB-Q-13/315	PBAValeraldehyde hydrate	12.9	216	54	825	A-7	2012.8.25
90	Sinopec Shanghai Engineering	Shenhua Baotou carbon 4 comprehensive utilization project 2-PH device	1611-P-1606A/B	Refining tower feed pump	GSB-Q-12/425	2-PH IPH	11.7	424	75	785	A-7	2012.8.25

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT °C	Medium Density kg/m3	Pump Material	Factory Time
91	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project 2-PH device	1611-P-1610A/B	Refining tower return pump	GSB-F-6/120	amyl alcohol, light dydrocarbon, water	5.8	121	45	655	A-7	2012.8.25
92	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project 2-PH device	1611-P-1702A/B	Temperature and pressure reduction pump	GSB-Q-5/555	water	4.5	555	100	960	A-7	2012.8.25
93	Sinopec Shanghai Engineering	Shenhua Baotou carbon four comprehensive utilization project 2-PH device	1611-P-1704A/B	High pressure flare separate liquid phase discharge pump	GSB-F-4/90	amyl alcohol, hydrocarbon, alcohol, water	4	90	167	745	A-7	2012.8.25
94	Sinopec Engineering Incorporation	Sinochem Quanzhou 12 million tons/year refining project 2 million tons/year continuous reforming unit	2211-P-102	Pre-hydrogenation water injection pump	GSB-F-9/292	demineralized water	8.8	292	40	989	S-6	2012.9.30
95	Sinopec Engineering Incorporation	Sinochem Quanzhou 12 million tons/year refining project 2 million tons/year continuous reforming unit	2211-P-215A/B	Depentanizing tower top product pump	GSB-Q-47/485	C5-fraction	46.3	480.6	45	540	S-6	2012.9.30
96	Sinopec Engineering Incorporation	Sinochem Quanzhou 12 million tons/year refining project 3.4 million tons/year catalytic cracking unit	2411-P-209A/B	Seal oil flush pump	GSB-Q-30/195	light diesel oil	30	195	100	900	S-6	2012.9.30
97	Sinopec Engineering Incorporation	Sinochem Quanzhou 12 million tons/year refining project 3.4 million tons/year catalytic cracking unit	2411-P-308A/B	Rich water washing water pump	GSB-Q-23/245	purified water	23	245	40	993	S-6	2012.9.30
98	Sinopec Engineering Incorporation	Sinochem Quanzhou 12 million tons/year refining project 1.6 million tons/year delayed coking unit	2611-P122A/B	On-line spalling injection pump	GSB-Q-12/376	condensed water	9.8	101	40	992.3	S-6	2012.11.25
99	Sinopec Engineering Incorporation	Sinochem Quanzhou 12 million tons/year refining project 1.6 million tons/year delayed coking unit	2611-P122A/B	On-line spalling injection pump	GSB-Q-12/376	water	12	376	60	998	S-6	2012.11.20
100	Sinopec Engineering Incorporation	Sinochem Quanzhou 12 million tons/year refining project 1.6 million tons/year delayed coking unit	2611-P208A/B	Compressor interstage pump	GSB-F-5/208	highly absorbent gasoline	4.36	208	60	689	S-8	2012.11.20
101	Sinopec Yangzi Petrochemical	Oil quality upgrade and crude oil inferior transformation 2 million tons/year high-pressure hydrocracking unit - desulfurization part	GA201216A/B	lean solution pump	GSB-F-9/230	barren liquor	8.5	230	40	1016	A-7	2012.11.10
102	Sinopec Yangzi Petrochemical	Oil quality upgrade and crude oil inferior transformation 1.5 million tons/year continuous reforming equipment	GA203208A/B	C4/C5 Fractionating column return pump	GSB-L1-38/245	lpg	38.32	245	40	503.6	A-7	2012.11.10
103	Sinopec Yangzi Petrochemical	Oil quality upgrade and crude oil inferior transformation 500,000 tons/year aromatics extraction device	GA204208A/B	Non-aromatic distillation tower bottom pump	GSB-F-1/93	sulfolane, nonbenzenoid hydrocarbon	1	93	140	1133	A-7	2012.11.10
104	Sinopec Ningbo Engineering	China Coal Shaanxi methanol and comprehensive utilization project 300,000 tons/year full density polyethylene plant	G-5212/5213	Low pressure condensate return pump	TL3-85	ethylene, n-hexane isopentane	2.63	83	110	680	A-7	2013.3.20
105	Sinopec Ningbo Engineering	China Coal Shaanxi methanol and comprehensive utilization project 300,000 tons/year full density polyethylene plant	G-9003/9004	Steam condensate pump	TL13-105	condensed water	13	92	97	961	A-7	2013.3.20

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT °C	Medium Density kg/m3	Pump Material	Factory Time
106	Sinopec Ningbo Engineering	China Coal Shaanxi methanol and comprehensive utilization project 300,000 tons/year full density polyethylene plant	G-9503	High pressure flare condensate pump	GSB-F-5/155	hexene,n- hexane,isopentane	5	155	100	627	A-7	2013.3.20
107	Sinopec Shanghai Engineering	China Coal Shaanxi methanol and comprehensive utilization project	1160P611A/B	Debutane tower bottom pump	GSB-F-9/93		8.7	93	96	581		2012.12.30
108	Sinopec Jinling Branch	20000Nm3/h light hydrocarbon recovery device	P-401/C,D	Condensate pump	GSB-F-4/200	condensed oil	4	200	40	533	S-6	2013.3.20
109	CNPEC Maoming Branch	Oil quality upgrading project 400,000 tons/year gas fractionation device	P-101A/B	Depropane tower feed pump	GSB-H-110/300	lpg	107.6	293	40	529	A-7	2013.3.1
110	CNPEC Maoming Branch	Oil quality upgrading project 400,000 tons/year gas fractionation device	P-201A/B	Deethane tower feed pump	GSB-Q-48/350	C2、C3fraction	47.27	346	46.6	463	A-7	2013.3.1
111	CNPEC Jinling branch	2013, oil refining ran a gasoline hydrogenation unit for maintenance technical transformation Project II	P-105/1	water injection pump	GSB-F-3/440	demineralized water	3	431.5	40	992.2	A-7	2013.6.5
112	CNPEC Beijing Yanshan branch	Ethylene-propylene rubber pilot plant (improvement project)	P-303B	Second devanadium water cycle pump	GSB-F-5/90	devanadium water accelerator	5	82	75	947.17	A-8	2013.8.1
113	CNPEC Tianjin branch	Refinery coking LPG gas fractionation unit	P-101A/B	Depropane tower feed pump	GSB-Q-36/350	ethylene,propylene, propane,butadiene ,butane,C5	36.12	350	40	498	A-7	2013.9.13
114	Sinopec Ningbo Engineering	Yanshan petrochemical power system integration transformation phase I project	P-102A/B	Ignition oil discharge pump	GSB-F-7/245	C9	7	245	60	957	A-7	2013.10.10
115	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., LTD 300,000 tons/year polyethylene and 390,000 tons/year propylene engineering DMT0 project Phase I project 1.8 million tons/year DTM0 unit olefin separation unit	P-1204A/B	Wash tower bottom gasoline pump	GSB-F-5/225	wash the bottom steam oil	5	225	40	650	A-7	2014.2.20
116	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., LTD 300,000 tons/year polyethylene and 390,000 tons/year propylene engineering DMT0 project Phase I project 1.8 million tons/year DTM0 unit olefin separation unit	1299-P-2111A/B	tank cleaning pump	GSB-F-3/166	gas	3	166	45	851	A-7	2014.2.20
117	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., LTD 300,000 tons/year polyethylene and 390,000 tons/year propylene engineering DMT0 project Phase I project 1.8 million tons/year DTM0 unit olefin separation unit	1299-P-2120A/B	Reaction gas compressor two stage hydrocarbon condensate pump	GSB-F-2/255	hydrocarbon	1.7	254	37.9	869	A-7	2014.2.20
118	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., LTD 300,000 tons/year polyethylene and 390,000 tons/year propylene engineering DMT0 project Phase I project 1.8 million tons/year DTM0 unit olefin separation unit	1299-P-2202A/B	Low pressure depropanizer return pump	GSB-Q-40/300	gas	40.1	293	12.7	525	A-7	2014.2.20
119	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., LTD 300,000 tons/year polyethylene and 390,000 tons/year propylene engineering DMT0 project Phase I project 1.8 million tons/year DTM0 unit olefin separation unit	1299-P-2203A/B	Demethanizer reflux pump	GSB-L1-5/100	hydrocarbon	4.8	89	-37	554	A-8	2014.2.20
120	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., LTD 300,000 tons/year polyethylene and 390,000 tons/year propylene engineering DMT0 project Phase I project 1.8 million tons/year DTM0 unit olefin separation unit	1299-P-2302A/B	C2 Green oil tank bottom pump	GSB-Q-5/270	C2 hydrocarbon	5	247	-31.6	44	A-8	2014.2.20

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT °C	Medium Density g/m3	Pump Material	Factory Time
121	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., 300000 tons/year of polyethylene and 390000 tons/year propylene engineering DMT0 project 9 ten thousand tons/year OCU device	1299-P-3201A/B	SHU feeding pump	GSB-L1-22/260	mix C4	21.4	253	37.4	584	A-7	2014.2.20
122	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., 300000 tons/year of polyethylene and 390000 tons/year propylene engineering DMT0 project 9 ten thousand tons/year OCU device	1299-P-3301A/B	Circulating carbon four feed pump	GSB-Q-48/840	mix C4	48	838	38.1	579	A-7	2014.2.20
123	Sinopec Luoyang Engineering	Zhejiang Xingxing New energy Technology Co., 300000 tons/year of polyethylene and 390000 tons/year propylene engineering DMT0 project 9 ten thousand tons/year OCU device	1299-P-3304A/B	Devinyllating tower circulating pump	GSB-L2-46/620	C2	45.5	620	-18.8	414	A-7	2014.2.20
124	Sinopec Shanghai Engineering	Shenhua Baotou coal chemical branch Shenhua Baotou carbon four comprehensive utilization project 2-PH device	1611-P-1907	Unqualified 2-PH product pump	GSB-F-1/120	2-PH	1	120	40	820	A-7	2013.11.10
125	Sinopec Luoyang Engineering	Pucheng Clean Energy chemical Co., LTD 1.8 million tons/year methanol 700,000 tons/year polyolefin project DMT0 device	810-P1204A/B	Washed tower bottom gasoline bottom pump	GSB-F-5/225	gas	5	223	40	650	A-7	2014.01.06
126	Sinopec Luoyang Engineering	Pucheng Clean Energy chemical Co., LTD 1.8 million tons/year methanol 700,000 tons/year polyolefin project DMT0 device	830-P2203A,B	Reactor compressor two-stage suction tank bottom pump	GSB-F-8.5/260	hydrocarbon condensate	8.33	259	39.3	800	A-7	2014.01.06
127	Sinopec Luoyang Engineering	Pucheng Clean Energy chemical Co., LTD 1.8 million tons/year methanol 700,000 tons/year polyolefin project DMT0 device	830-P2206A,B	Low pressure depropane top liquid phase transfer pump	GSB-F-19/275	hydrocarbon	19	271	10.5	528.4	A-7	2014.01.06
128	Sinopec Luoyang Engineering	Pucheng Clean Energy chemical Co., LTD 1.8 million tons/year methanol 700,000 tons/year polyolefin project DMT0 device	830-P2402A,B	Green oil tank bottom pump	GSB-F-3.5/280	C2liquid phase	3.4	278	-31.6	444.23	A-8	2014.01.06
129	Sinopec Luoyang Engineering	Pucheng Clean Energy chemical Co., LTD 1.8 million tons/year methanol 700,000 tons/year polyolefin project DMT0 device	830-P2701A,B	Hot moment tank liquid phase transfer pump	GSB-Q-42/210	hydrocarbon condensate	42	202	40	600	A-7	2014.01.06
130	CNPC Hangzhou Petrochemical			Propane feed pump	GSB-Q3-4/680	propane	4	674	normal	484	A-7	2013.11.25
131	CNPC Baling Petrochemical Branch			Desuperheater pump	GSB-F-3.5/300	steam condensate	3.5	300	95/105	956.02	A-7	2013.12.25
132	CNPC Qilu branch	Processing high sulfur and high acid crude oil adaptive transformation project 2.6 million tons/year wax oil hydrogenation unit	022-P-201A/B	Hydrogen sulfide stripper top return pump	GSB-F-6/206	naphtha H2S, etc	6	206	40	693	A-8	2.14.02.20
133	CNPC Qilu branch	Processing high sulfur and high acid crude oil adaptive transformation project 2.6 million tons/year wax oil hydrogenation unit	022-P-301A/B	Low gas desulfurization and lean liquid pump	GSB-Q-20/300	lean amine solution	20	298	55	993	A-7	2.14.02.20
134	CNPC Qilu branch	Processing high-sulfur and high-acid crude oil adaptive transformation project 600,000 tons/year jet coal hydrogenation unit	023-P-521A/B	Product fractionation tower top return pump	GSB-F-13/265	light distillates	13	265	40/150	749	A-7	2.14.02.20
135	CNPC Beihai Refining and Chemical	product refining plant	0234-P-303E	Lean amine pump	GSB-Q2-60/250	lean amine solution	59.7	250	25/40	1016	A-7	2014.05.25

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
136	CNPC Tianjin branch		U-GA120C	Naphtha/pulling oil transfer pump	GSB-L2D-60/520	naphtha/topped oil	60.8	520	normal	650	A-7	2014.05.10
137	Sinopec Luoyang Engineering	Shandong Hengyu Chemical Co., LTD Polyester raw material project 1.2 million tons/year continuous reforming device	1211-P-209A/B	Three-stage inlet tank pump	GSB-F-4/170	gas	3.6	165	40	764	S-6	2014.07.05
138	Sinopec Luoyang Engineering	Shandong Hengyu Chemical Co., LTD Polyester raw material project 1.2 million tons/year continuous reforming device	1211-P-210A/B	C4/C5Bottom pump of fractionating column	GSB-F-7/150	C5 istillate	6.4	144	132	479.6	S-6	2014.07.05
139	Sinopec Luoyang Engineering	Shandong Hengyu Chemical Co., LTD Polyester raw material engineering continuous reforming joint plant 550,000 tons/year aromatics extraction	1212-P-507A/B	Heavy aromatics tower bottom pump	GSB-Q-5/80	C10heavy aromatics	4.92	79	239	670.8	A-7	2014.11.20
140	Sinopec Luoyang Engineering	Shandong Hengyu Chemical Co., LTD Polyester raw material engineering continuous reforming joint plant 550,000 tons/year aromatics extraction	1212-P-510A/B	Unqualified orthoxylene pump	GSB-F-5/80	o-xylene	4.15	77	40	864.8	A-7	2014.11.20
141	Sinopec Luoyang Engineering	Shandong Hengyu Chemical Co., LTD Polyester raw material engineering continuous reforming joint plant 550,000 tons/year aromatics extraction	1212-P-603A/B	Non-aromatic distillation column reflux pump	GSB-Q-38/285	C6-C7Nonaromatic hydrocarbon	37.66	284	50	644	S-6	2014.11.20
142	Sinopec Luoyang Engineering	Shandong Hengyu Chemical Co., LTD Polyester raw material engineering continuous reforming joint plant 550,000 tons/year aromatics extraction	1212-P-608A/B	Non-aromatic distillation tower bottom pump	GSB-F-1.5/80	sulfolane non-aromatic hydrocarbon	1.2	78	140	1140	A-7	2014.11.20
143	Sinopec Luoyang Engineering	Shandong Hengyu Chemical Co., LTD Polyester raw material engineering continuous reforming joint plant 550,000 tons/year aromatics extraction	1212-P-707A/B	Toluene tower bottom pump	GSB-F-23/205	C8aromatic hydrocarbon	22.84	204	177	726.2	S-6	2014.11.20
144	Sinopec Shanghai Engineering	ZTHC ENERGY ZTHC Ordos coal deep processing demonstration project 250,000 tons/year tubular LDPE device	38-P-3302A/B	pot water pump	GSB-L2-34/415	boiler water	33.34	411	100	958	A-7	2015.02.15
145	Sinopec Engineering Incorporation	ZTHC ENERGY ZTHC Ordos coal deep processing demonstration project 250,000 tons/year tubular LDPE device	320-P-2001A/B	A compressor inlet condensate pump	GSB-F-2.5/115	C4, hydrocarbon	2.4	112	40	746.6	A-7	2015.02.25
146	Sinopec Engineering Incorporation	ZTHC ENERGY ZTHC Ordos coal deep processing demonstration project 200,000 tons/year olefin catalytic cracking (OCC) unit	320-P-2002A/B	Two stage compressor inlet condensate pump	GSB-F-8/95	C3, hydrocarbon	7.7	92	40	660.8	A-7	2015.02.25
147	Sinopec Engineering Incorporation	ZTHC ENERGY ZTHC Ordos coal deep processing demonstration project 200,000 tons/year olefin catalytic cracking (OCC) unit	320-P-2003A/B	Compressor condensate pump	GSB-H-54/272	C1-C10,	53.4	271.2	40	572.8	A-7	2015.02.25
148	Sinopec Guangzhou Engineering	Fude (Changzhou) Energy and Chemical Development Co., LTD 1 million tons/year methanol to olefin, 500,000 tons/year Styrene project 1 million tons/year DMT0 device	0299-P-1410A/B	Reaction gas compressor two stage hydrocarbon condensate pump	GSB-F-1.5/300	hydrocarbon	1	300.4	37	760	A-7	2014.12.10
149	Sinopec Guangzhou Engineering	Fude (Changzhou) Energy and Chemical Development Co., LTD 1 million tons/year methanol to olefin, 500,000 tons/year Styrene project 1 million tons/year DMT0 device	0299-P-1411A/B	tank cleaning pump	GSB-F-2/180	gas	1.67	172.5	45	851	A-7	2014.12.10
150	Sinopec Guangzhou Engineering	Fude (Changzhou) Energy and Chemical Development Co., LTD 1 million tons/year methanol to olefin, 500,000 tons/year Styrene project 1 million tons/year DMT0 device	0299-P-1502A/B	C2 Green oil separator tank bottom pump	GSB-F-2/110	C2 hydrocarbon	2	110.3	-32	443.4	A-8	2014.12.10

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
151	Sinopec Guangzhou Engineering	Fude (Changzhou) Energy and Chemical Development Co., LTD 1 million tons/year methanol to olefin, 500,000 tons/year Styrene project 1 million tons/year DMT0 device	0299-P-1602A/B	Low pressure depropanizer return pump	GSB-F-23/270	hydrocarbon	22.4	266.5	14.6	520.2	A-7	2014.12.10
152	Sinopec Guangzhou Engineering	Fude (Changzhou) Energy and Chemical Development Co., LTD 1 million tons/year methanol to olefin, 500,000 tons/year Styrene project 1 million tons/year DMT0 device	0299-P-1204A/B	Wash tower bottom gasoline pump	GSB-F-8/225	wash the bottom steam oil	7.5	225	40	650	A-7	2014.12.10
153	Sinopec Yangzi Petrochemical	Oil quality upgrading and crude oil inferior transformation 2 million tons/year hydrocracking unit renovation	GA201312A/B	Seal oil pump	GSB-F-3/390	diesel	3	376	50	820	A-7	2015.01.10
154	Sinopec Ningbo Engineering	Zhongan Coalification Co., LTD Coal to 1.7 million tons/year methanol and olefin conversion items	1060-P-1602A/B/C	High pressure process pump	GSB-H-54/591	process water	54.22	591	49/60	988	A-7	2015.6
155	CNPC Yanshan branch	200,000 tons/year refinery saturated gas recovery	P-9204A/B	Carbon 4 refill pump	GSB-L2-22/646	C4	21.9	646	24.4	549.6	A-7	2015.9
156	CNPC Tianjin branch		U-GA120C	Naphtha/pulling oil transfer pump	GSB-L3-60/520	naphtha/topped oil	60.8	520	normal	650	A-7	2015.9
157	Sinopec Luoyang Engineering	Sinopec Beihai Refining and Chemical Product quality upgrading project Product refining device renovation	0234-P-501A/B	Recycled lye pump	GSB-F-22/230	catalyst lye	21.4	230	40	1160/1208	A-7	2015.11
158	CNPC Tianjin branch		U-GA120C	Naphtha/pulling oil transfer pump	GSB-L2-60/520	naphtha/topped oil	60.8	520	normal	650	A-7	2015.10.25
159	Sinopec Shanghai Engineering	Ethylene-styrene plant of Jiujiang Branch of Sinopec	0260-P-108A/B	Alkyl transfer reaction feed pump	GSB-L2-20/450	benzene, diethylbenzene	20	450	162	729	A-7	2016.05.20
160	Sinopec Nanjing Chemical Industry Co., LTD		01P0101a, b	High pressure benzene feed pump	GSB-Q-20/500	benzene	20	500	84/100	804	A-7	2016.1.9
161	CNPC Guangzhou branch	Butene-1 device	P-405B	Lifting tower bottom pump	GSB-L1-7/300	C4	7.02	296	55	570	A-7	2016.1.9
162	CNPC Jinling branch	2 million tons/year residual oil hydrogenation unit	1217-P-105A/B	Low pressure lean amine pump	GSB-Q1-24/250	amine-deficient solution	23.3	247	55	992.8	A-8	2016.9.10
163	CNPC Jinling branch	1.5 million tons/year continuous reforming - aromatics extraction device	0211-P-202A/B	Two stage inlet tank pump	GSB-F-5/130	Reforming gasoline (including benzene14.78wt%)	4.85	130	40	776.4	A-7	2016.9.24
164	CNPC Jinling branch	1.5 million tons/year continuous reforming - aromatics extraction device	0212-P-608A/B	Non-aromatic distillation tower bottom pump	GSB-F-1.5/80	sulfolane, non- aromatic	1.1	77	140	1134	A-7	2016.09.15
165	CNPC Jinling branch	1.5 million tons/year continuous reforming - aromatics extraction device	0212-P-707A/B	Toluene tower bottom pump	GSB-F-4/170	xylene	4.03	167	177	718	A-7	2016.09.15

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
166	CNPC Maoming Branch	550,000 tons/year aromatics extraction device	P-803A/B	Steam desuperheater injection pump	GSB-Q-8/410	HSC	8	410	150/220	863	A-7	2016.1
167	Sinopec Engineering Incorporation (Chongqing Sinopec Tonghui Energy Co., LTD)	1 million cubic meters/day liquefied natural gas plant	P-201	Mixing coolant pour pump	GSB-F-15/222	mixture refrigerant	15	221.4	32/42	584	S-6	2016.9.20
168	Sinopec Maoming Branch	200,000 tons/year vapor-phase polypropylene plant added butene system project	G-661A/B	Butene feed pump	GSB-L1-5/460	butene-1	5	460	30	583	S-6	2017.11.26
169	Sinopec Yanshan Branch oil refining plant 2	1.2 million tons/year diesel hydrogenation unit to add a circulating hydrogen desulfurization system	P-501A/B	Lean amine pump	GSB-H-45/773	MDEA water solution	45	773	45	1023	S-8	2017.1.12
170	Sinopec Luoyang Engineering (Shijiazhuang Refining and Chemical branch of Sinopec)	the sixth stage gasoline mass upgrade alkylation unit	0220-P-205AB	Propane extraction pump	GSB-F-3/430	propane	3	429	30/40	535	A-8	2017.7.25
171	Sinopec Luoyang Engineering (Shijiazhuang Refining and Chemical branch of Sinopec)	the sixth stage gasoline mass upgrade alkylation unit	0220-P-311AB	Fresh lye pump	GSB-F-12/245	12% Sodium hydroxide	11.6	245	35	1110	A-8	2017.7.25
172	CNPC Maoming Branch	maoming petrochemical dry gas recovery ethane-rich gas equipment project	P-6304A/B	Gasoline absorption feed pump	GSB-H-76/510	gas	76	510	40.5	713.66	S-6	2017.12.19
173	CNPC Maoming Branch	maoming petrochemical dry gas recovery ethane-rich gas equipment project	P-6204A/B	Carbon 4 refill pump	GSB-Q-28/635	C4	28	635	16.1	567	S-6	2017.12.19
174	Sinopec Jinling Branch	150,000 tons/year sulfur recovery unit	P-8107A/B	Slag and medium pressure deaeration pump	GSB-Q-7/680	demineralized water	7.1	680	104	955	C-6	2017.11.3
175	Sinopec Jinling Branch	hydrogen cracking	P106A/B	Deethane tower feed pump	GSB-L1-20/380	liquid hydrocarbon	19.4	380	40	520	A-7	2017.8.20
176	Sinopec Jinling Branch	cracked gasoline hydrogenation	P105/3	injection pump	GSB-F-4/500	demineralized water	4	500	40	1000	A-7	2017.8.20
177	CNPC Tianjin branch	refining department increased the unqualified LPG return line project	P-424-8	Unqualified LPG return pump	GSB-L-6/340	not qualified liquefied gas	5.2	340	40	616	A-7	2018.1.2
178	Sinopec Shanghai Engineering (Zhongan Coalification Co., LTD)	coal to 1.7 million tons/year methanol and olefin conversion project 350,000 tons/year linear low density polyethylene plant	160-P-1001/1002/1001S	Copolymer feed pump	GSB-L1-10/475	ethylene-1 butene-1	6.25 6.9	475 458	55 100	574 653	A-7	2018.04.19
179	Sinopec Shanghai Engineering (Zhongan Coalification Co., LTD)	coal to 1.7 million tons/year methanol and olefin conversion project 350,000 tons/year linear low density polyethylene plant	160-P-1035A/S	Condensate feed pump	GSB-L1-5/480	condensing agent	4.2	479	110	601	A-7	2018.04.19
180	Sinopec Shanghai Engineering (Zhongan Coalification Co., LTD)	coal to 1.7 million tons/year methanol and olefin conversion project 350,000 tons/year linear low density polyethylene plant	160-P-5047A/S	Low pressure condensate pump	GSB-L1-4/468	hydrocarbon	4	468	110	680	A-7	2018.04.19

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
181	Sinopec Engineering Incorporation (CNPC Tianjin branch)	Gasoline quality upgrade project 300,000 tons/year alkylation device	160-P-102A/B	Decarbonizer feed pump	GSB-F-18/300	C3/C4	17.5	300	40	503	A-7	2018.2.5
182	Sinopec Engineering Incorporation (CNPC Tianjin branch)	Gasoline quality upgrade project 300,000 tons/year alkylation device	160-P-203A/B	Pump out propane products	GSB-F-3/348	C3/C4	2.5	348.1	47.9	518	A-7	2018.2.5
183	Sinopec Engineering Incorporation (CNPC Tianjin branch)	Gasoline quality upgrade project 300,000 tons/year alkylation device	160-P-207A/B	Refill the desalting pump	GSB-F-16/250	demineralized water	16	250	27.2	1006	A-7	2018.2.5
184	Sinopec Engineering Incorporation (CNPC Tianjin branch)	Gasoline quality upgrade project 300,000 tons/year alkylation device	160-P-214A/B	fresh drawdown pump	GSB-F-14/223	12wt%lye	13.4	223.4	26.7	1122	A-7	2018.2.5
185	Sinopec Shanghai Petrochemical	/	P-3198	High-Speed Pump	GSB-F-7/190	C4、C5	7	190	normal	/	S-6	2018.1.16
186	Sinopec Engineering Incorporation	CNPC Anqing branch Anqing Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-203A/B	Pump out propane products	GSB-F-3/306	propane	2.5	306	49	518	A-7	2018.09
187	Sinopec Engineering Incorporation	CNPC Anqing branch Anqing Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-211A/B-2	Debutane column return pump	GSB-Q-45/321	n-butane	45	321	49	544	A-7	2018.09
188	Sinopec Engineering Incorporation	CNPC Anqing branch Anqing Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-214A/B	Ionic liquid clear liquid pump	GSB-F-6/153	ionic liquid	6	153	60	1330	A-7	2018.09
189	Sinopec Engineering Incorporation	CNPC Anqing branch Anqing Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-004A/B	Heavy carbon 4 sulfur pump	GSB-F-16/286	C4 fraction	16	286	40	523	A-7	2018.09
190	Sinopec Engineering Incorporation	CNPC Jiujiang branch Jiujiang Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-102A/B	Decarbonizer feed pump	GSB-F-20/326	C4 fraction	20	326	40	523	A-7	2018.09
191	Sinopec Engineering Incorporation	CNPC Jiujiang branch Jiujiang Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-203A/B	Pump out propane products	GSB-F-3/306	propane	2.5	306	49	518	A-7	2018.09
192	Sinopec Engineering Incorporation	CNPC Jiujiang branch Jiujiang Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-214A/B	Ionic liquid clear liquid pump	GSB-F-6/153	ionic liquid	6	153	60	1330	A-7	2018.09
193	Sinopec Engineering Incorporation	CNPC Wuhan branch Wuhan Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-102A/B	Decarbonizer feed pump	GSB-F-20/326	C4 fraction	20	326	40	523	A-7	2018.09
194	Sinopec Engineering Incorporation	CNPC Wuhan branch Wuhan Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-203A/B	Pump out propane products	GSB-F-3/306	propane	2.5	306	49	518	A-7	2018.09
195	Sinopec Engineering Incorporation	CNPC Wuhan branch Wuhan Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-214A/B	Ionic liquid clear liquid pump	GSB-F-6/153	ionic liquid	6	153	60	1330	A-7	2018.09

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
196	Sinopec Engineering Incorporation	CNPC Jiujiang branch Jiujiang Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-211A/B	Debutane column return pump	GSB-Q-45/321	n-butane	35	240	49	544	A-7	2018.07
197	Sinopec Engineering Incorporation	CNPC Wuhan branch Wuhan Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-211A/B	Debutane column return pump	GSB-Q-45/321	n-butane	35	240	49	544	A-7	2018.07
198	CNPC Guangzhou branch				TL3-40	oil,water	2	40			SS	2018.08.02
199	Sinopec Yangzi Petrochemical	Designed by Sinopec Engineering Incorporation 300,000 tons/year alkylation equipment and supporting project	160-P-102A/B	Decarbonizer feed pump	GSB-F-26/270	C3 C4	25.4	270	40	519	A-7	2019.02.20
200	Sinopec Yangzi Petrochemical	Designed by Sinopec Engineering Incorporation 300,000 tons/year alkylation equipment and supporting project	160-P-203A/B	Pump out propane products	GSB-F-2/212	hydrocarbon	2	212	51	510	A-7	2019.02.20
201	Sinopec Yangzi Petrochemical	Designed by Sinopec Engineering Incorporation 300,000 tons/year alkylation equipment and supporting project	160-P-207A/B	Refill the desalting pump	GSB-F-12/193	deoxygenated water	12.1	193	40	996.1	A-7	2019.02.20
202	Sinopec Yangzi Petrochemical	Designed by Sinopec Engineering Incorporation 300,000 tons/year alkylation equipment and supporting project	160-P-209A/B	N-butane column return pump	GSB-Q-48/350	n-butane	47.6	350	50.9	540	A-7	2019.02.20
203	Sinopec Yangzi Petrochemical	Designed by Sinopec Engineering Incorporation 300,000 tons/year alkylation equipment and supporting project	188-P-810A/B	Low pressure boiler feed pump	GSB-F-7/168	deoxygenated water	6.7	168	40/155/17.5	912	S-6	2019.02.20
204	CNPC Jingmen branch (Sinopec Luoyang Engineering)	200,000 tons/year alkylation plant	0220-P-205A/B	Propane extraction pump	GSB-F-3/430	propane	3	429	40	535.1	A-8	2018.10.18
205	CNPC Jingmen branch (Sinopec Luoyang Engineering)	200,000 tons/year alkylation plant	0220-P-311A/B	Fresh lye pump	GSB-F-12/245	12%NaOH	11.6	245	35	1110	A-8	2018.10.18
206	Sinopec Ningbo Engineering (user:Sinopec Zhanjiang Dongxing Petrochemical Co., LTD)	180,000 Nm3/h POX installation and supporting work	A141-P-1602A/B-M	High pressure process pump	GSB-H-39/590	high pressure process water	38.6	590	normal	997	A-7	2019.04.23
207	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	10 million tons/year atmospheric and vacuum device	A101-P-902A/B	Washing oil pump	GSB-F-16/369	flushing oil	16	369	50	819.5	A-7	2019.07.20
208	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	2 million tons/year light hydrocarbon recovery device	A102-P-503	Three stage lye booster pump	GSB-F-3/165	lye	2.5	165	40	1200	A-7	2019.07.20
209	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	2 million tons/year light hydrocarbon recovery device	A102-P-505	Debrine booster pump	GSB-F-6/160	deoxygenated water	6	160	40	1000	A-7	2019.07.20
210	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	4.2 million tons/year catalytic cracking unit	A104-P-212A/B	Seal oil pump	GSB-F-30/240	seal oil	30	240	55	850	A-7	2019.07.20

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
211	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	1.8 million tons/year continuous reforming device	A110-P-105A/B	Wash water into the pump	GSB-F-8/335	condensed water	7.3	335	40	993	A-7	2019.07.20
212	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	300,000 tons/year alkylation device	A114-P-203A/B-M	Propane extraction pump	GSB-F-5.5/295	propane isobutane	5.5	295	54.8	510	A-7	2019.07.20
213	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	300,000 tons/year alkylation device	A114-P-208A/B-M	Supplementary process pump	GSB-F-9.5/183	process water	9.4	183	39.78	1000	A-7	2019.07.20
214	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	300,000 tons/year alkylation device	A114-P-210A/B-M	Debutane column return pump	GSB-F-20.5/222	n-butane	20.4	222	54.82	540	A-7	2019.07.20
215	Sinopec Luoyang Engineering owner:Zhongke (Guangdong) Refining Co., LTD	300,000 tons/year alkylation device	A114-P-216A/B-M	Fresh lye pump	GSB-F-15/208	12%NaOH	14.6	208	39.8	1050	A-7	2019.07.20
216	CNPC Zhenhai refining and chemical branch (designer: Sinopec Engineering Incorporation)	300,000 tons/year alkylation device	160-P-7203A/B	Pump out propane product	GSB-F-3/350	hydrocarbon	2.7	350	53	510	A-7	2019.03.01
217	CNPC Zhenhai refining and chemical branch (designer: Sinopec Engineering Incorporation)	300,000 tons/year alkylation device	160-P-7207A/B	Refill the desalting pump	GSB-F-11/261	demineralized water	10.9	261	40	996.1	A-7	2019.03.01
218	CNPC Zhenhai refining and chemical branch (designer: Sinopec Engineering Incorporation)	300,000 tons/year alkylation device	160-P-7209A/B	N-butane column return pump	GSB-Q-34/283	n-butane	34	283	52.9	537.6	A-7	2019.03.01
219	Sinopec Nanjing Chemical Industry Co., LTD		P0802A/B	Cyclohexane pump	GSB-Q-12/500	cyclohexane	12	500		745	CS	2018.11
220	Sinopec Engineering Incorporation (owner: CNPC Beijing Yanshan branch)	Continuous reforming combination plant oil upgrading project 1 million tons/year continuous reforming joint plant	133-P-107	Pre-hydrogenation water injection pump	GSB-F-4/237	demineralized water	4	237	40	979	A-7	2019.04.02
221	Sinopec Engineering Incorporation (owner: CNPC Beijing Yanshan branch)	Continuous reforming combination plant oil upgrading project 1 million tons/year continuous reforming joint plant	133-P-109	Sewage lift pump	GSB-F-2/83	sewage	1.1	82.3	40	992	A-7	2019.04.02
222	Sinopec Engineering Incorporation (owner: CNPC Beijing Yanshan branch)	Continuous reforming combination plant oil upgrading project 1 million tons/year continuous reforming joint plant	133-P-612A/B	Low pressure condensate pump	GSB-F-5/115	water	5	115	90	965	A-7	2019.04.02
223	Sinopec Engineering Incorporation(SEI)	National iranlanoil engineering & constructio company Abadan refinery upgrade project	P-5686A/B	Low pressure flush pump	GSB-L1-4/334	rinse water	3.2	334	57	963	A-8	2020.06
224			P-5705A/B	Process condensate pump	GSB-L2-17/453	process condensate	16.4	453	40	993	A-7	2020.06
225	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	Product refining plant	0234-P-101A/B	High pressure desulfurization lean liquid pump	GSB-Q-39/329	amine-deficient solution	38.4	329	40/55	1029	S-8	2019.10.13

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
226	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	Product refining plant	0234-P-104A/B	LPG feed pump	GSB-Q-42/243	lpg	41.4	243	40	528	A-7	2019.10.13
227	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	160 tons/h acid water vapor extraction device	0258-P-207A/B	Purified water return pump	GSB-F-24.5/162	purified water	24.3	162	40/50	990	S-6	2019.10.13
228	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	160 tons/h acid water vapor extraction device	0258-P-213A/B	lye pump	GSB-F-6.5/80	lye	6.25	80	normal	1330	A-8	2019.10.13
229	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	160 tons/h acid water vapor extraction device	1258-P-105C/D	Ammonia pump	GSB-F-6/80	liquid ammonia	6	80	40	576	A-8	2019.10.13
230	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	100 tons/h solvent regeneration device	0261-P-209A/B	Condensate pump	GSB-F-27/105	condensed water	26.02	105	101.1	957	S-6	2019.10.13
231	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	4.2 million tons/year residual oil dewaxing device	0201-P-110A/B	Normal top drainage pump	GSB-F-22/92	Constant top drainage	21.6	92	40	992	S-6	2019.10.13
232	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	250,000 tons/year isomerization device	0221-P-209A/B	Isopentane product pump	GSB-F-28/195	hydrocarbon+ trace water	27.6	195	52.6	586	S-6	2019.10.13
233	Sinopec Guangzhou Engineering (designer: Shandong Jilian Petrochemical Engineering Co., LTD owner: FLHGI)	2.6 million tons/year hydrocracking unit	0203-P-205A/B	Fractionating tower top pump	GSB-F-9/167	acid water at the top of fractionation tower+purifying water	8.69	167	51.9	987.1	S-6	2019.10.13
234	Sinopec Engineering Incorporation (Zhongke)	Zhongke (Guangdong) Refining and Chemical Co., LTD. 350,000 tons/year high density polyethylene plant	A157-P-2032A/B-M	Hexene feed pump	GSB-L2-14/898	1-hexene	14	898	42	648	S-6	2019.09.11
235	Sinopec Engineering Incorporation (Zhongke)	Zhongke (Guangdong) Refining and Chemical Co., LTD. 350,000 tons/year high density polyethylene plant	A157-P-5042-M	Dehexane tower top compressor suction tank pump	GSB-L1-1.5/62	iso-butane(include 5% ethylene, ethylene oxide)	1.5	62	38	496	S-6	2019.09.11
236	Sinopec Engineering Incorporation (SEI)	Zhongke Joint Venture Guangdong Refining and Chemical Integration Project 200,000 tons/year polypropylene unit	A160-P-430-M	A-160-T-430Bottom discharge pump	GSB-L1-3/233	propylene	3	233	79	419	A-8	2019.09.11
237	Sinopec Engineering Incorporation (SEI)	Zhongke Joint Venture Guangdong Refining and Chemical Integration Project 200,000 tons/year polypropylene unit	A160-P-730A/B-M	Butene feed pump	GSB-L1-5/496	butene-1	4.5	496	65	555	S-6	2019.09.11
238	Sinopec Ningbo Engineering	DMCIC	2721-P004A/B	Waste lye pump	TL2-120	waste lye	2	120	normal	1000	A-7	2019.09.25
239	Sinopec Engineering Incorporation (Zhongke)	Zhongke Joint Venture Guangdong Refining and Chemical Integration Project 200,000 tons/year polypropylene unit	A159-P-702A/B-M	Butene-1 feed pump	GSB-L1-17/330	butene-1	16.2	330	55/60	555	S-6	2019.9.15
240	Sinopec Engineering Incorporation (Zhongke)	Chemical Intermediate Tank Area of Guangdong Refining and Chemical Integration Project of Zhongke Joint Venture	A321-P-103	POX propylene feedstock pump	GSB-F-30/229	propylene	30	229	50	478	A-7	2019.9.15

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
	Sinopec Engineering Incorporation (Zhongke)	Chemical Intermediate Tank Area of Guangdong Refining and Chemical Integration Project of Zhongke Joint Venture	A321-P-104	Empty (and drive) propylene transfer pump	GSB-Q-32/352	propylene	32	352	50	478	A-7	2019.9.15
242	Sinopec Engineering Incorporation (Zhongke)	Chemical Intermediate Tank Area of Guangdong Refining and Chemical Integration Project of Zhongke Joint Venture	A321-P-202	not qualified C4 transfer pump	GSB-F-11/178	mix C4	11	178	50	585	S-6	2019.9.15
243	Sinopec Anqing branch	300,000 tons/year alkylation device	1160-P-005A/B	C-5 fraction pump	GSB-F-2/220	C5	1/1.5	220	40/90	599	A-7	2019.5.16
244	Sinopec Zhanjiang Dongxing Petrochemical Co., LTD	Isomerization device supporting processing item Isomerization device supporting processing	J-853A/B	Drain liquid flush pump	GSB-Q-2/163	C5/C6/ nC6	1.9	163	141	576.6	A-7	2019.09.29
245	Sinopec Zhanjiang Dongxing Petrochemical Co., LTD	Isomerization device supporting processing item Isomerization device supporting processing	J-857A/B	Extraction tower return pump	GSB-Q-14/410	n-alkane stock oil,C5,C6	13.56	410	50	601.3	A-7	2019.09.29
246	Sinopec Zhanjiang Dongxing Petrochemical Co., LTD	Isomerization device supporting processing item Isomerization device supporting processing	J-882A/B	Debutane column return pump	GSB-F-26/253	liquefied gas	25.4	253	55.5	521	A-7	2019.09.29
247	Sinopec Shanghai Engineering (Zhongke)	50,000 tons/year ethanolamine device	A156-P-101A/B	Liquid ammonia feed pump	GSB-L1-4/175	liquid ammonia	3.7	178	42	618	A-8	2019.8.30
248	Sinopec Shanghai Engineering (Zhongke)	50,000 tons/year ethanolamine device	A156-P-202A/B	Atmospheric dewatering tower return pump	GSB-L1-11/202	ammonium hydroxide	10.5	201.48	60	914	A-8	2019.8.30
249	Sinopec Shanghai Engineering (Zhongke)	50,000 tons/year ethanolamine device	A156-P-601A/B	Condensate pump	GSB-L1-5/321	condensate	4.8	321	148	918	A-8	2019.8.30
250	Sinopec Engineering Incorporation Tianjin branch	Refinery product structure adjustment and oil product quality upgrading project 2.6 million tons/year Residuum hydrogenation unit	601-P-501A/B	Water washing injection pump	GSB-F-5/278	demineralized water	5	276	40	992	A-7	2019.11.07
251	Sinopec Engineering Incorporation (SEI)	Sinochem Quanzhou Petrochemical Co., LTD. 1 million tons/year ethylene and refining Expansion project	2316-P-301A/B	Low gas desulphurization and lean amine liquid pump	GSB-F-20/298	amine-deficient solution	20	298	60	993	A-8	2020.03.17
252	Sinopec Engineering Incorporation (SEI)	Sinochem Quanzhou Petrochemical Co., LTD. 1 million tons/year ethylene and refining Expansion project	2215-P-202A/B	Reforming hydrogen booster inlet split tank bottom pump	GSB-F-6/309	isoformate	5.61	309	40	806	A-8	2020.03.17
253	Sinopec Engineering Incorporation (SEI)	Sinochem Quanzhou Petrochemical Co., LTD. 1 million tons/year ethylene and refining Expansion project	2215-P-203A/B	Reformer hydrogen booster interstage split tank bottom pump	GSB-F-12/233	isoformate	11.23	233	40	754	A-8	2020.03.17
254	Sinopec Maoming Branch	No. 3 furfural plant defect elimination renovation project	26/3,4	injection pump	GSB-L1-5/400	condensed water	5.2	400	64/110	982	A-7	2019.11.21
255	CNPC Qilu branch	Oil quality upgrade carbon 4 resource comprehensive utilization technology transformation project	bump-648	light hydrocarbon pump	GSB-H-80/540	light hydrocarbon(65% propane,35% butane)	80	540	30	535	A-7	2020.02.29

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT °C	Medium Density kg/m3	Pump Material	Factory Time
256	CNPC Maoming Branch	550,000 tons/year aromatics extraction device	P-803A/B	Steam desuperheater injection pump	GSB-Q-8/410	HSC HSC	8	410	150/220	863	A-7	2020.08
257	CNPC Qilu Petrochemical branch Shengli Refinery	The second oil plant has perfected the process of producing hydrogen tank	P-641、P-642	feedstock pump	GSB-H-38/550	topped oil	38	550	40	680	A-7	2020.04.28
258	Sinopec Engineering Incorporation (SEI)	Fujian Gulei Petrochemical Co., Ltd. refining and chemical integration project million tons Ethylene and downstream deep processing unit tank farm 1	3013-P-004	Empty (and run) propylene return pump	GSB-Q-32/370	Empty (and drive) propylene	32	370	21.3/40	474	s-6	2020.06.28
259	Sinopec Engineering Incorporation (SEI)	Fujian Gulei Petrochemical Co., Ltd. refining and chemical integration project million tons Ethylene and downstream deep processing unit tank farm 1	3017-P-003A/B	1-Butene feedstock pump	GSB-L1-6/479	1-butene	5.6	479	21.3/40	567	s-6	2020.06.28
260	Sinopec Jiujiang Branch	Jiujiang Petrochemical 300,000 tons/year ionic liquid alkylation project	1160-P-214A	Ionic liquid clear liquid pump	GSB-F-6/153	ionic liquid	6	153	60	1330	A-7	2019.12.30
261	CNPC Jinling branch	High-end graphite material project High-end graphite device	0204-1A-P-23/23A	Stabilizing top return pump	GSB-F-23/227	liquefied gas	22.4	227	43	497	A-7	202.06.20
262	CNPC Jinling branch	High-end graphite material project High-end graphite device	0204-1A-P-04/04A	Gasoline pump	GSB-F-6/199	naphtha	5.4	199	40	754	A-7	202.06.20
263	Sinopec Luoyang Engineering	Sinopec Beihai Refining and chemical Company responsible for the transformation of Beihai refining site Petrochemical (200,000 tons/year polypropylene) project	1255-P-102 A/B	Injection pump	GSB-Q-10/844	demineralized water	10.1	844	50/ 130	988	A-7	2020.10.11
264	Sinopec Luoyang Engineering	Sinopec Beihai Refining and chemical Company responsible for the transformation of Beihai refining site Petrochemical (200,000 tons/year polypropylene) project	1255-P-103A/B	High pressure lean amine pump	GSB-Q-15/834	amine-deficient solution H ₂ S	15.1	843	55	992.6	A-8	2020.10.11
265	Sinopec Luoyang Engineering	Sinopec Beihai Refining and chemical Company responsible for the transformation of Beihai refining site Petrochemical (200,000 tons/year polypropylene) project	1202-P-203A/B	Acid water pump	GSB-F-26/200	base oil	26	200	40	992.1	A-7	2020.10.11
266	Sinopec Luoyang Engineering	Sinopec Beihai Refining and chemical Company responsible for the transformation of Beihai refining site Petrochemical (200,000 tons/year polypropylene) project	1202-P-211A/B	Seal oil pump	GSB-F-30/240	seal oil	30	240	40	80	A-7	2020.10.11
267	Sinopec Luoyang Engineering	Sinopec Beihai Refining and chemical Company responsible for the transformation of Beihai refining site Petrochemical (200,000 tons/year polypropylene) project	1202-P-301A/B	Air compressor intermediate condensate pump	GSB-F-9/220	Air compressor intermediate condensate	8.5	220	40	628.7	A-7	2020.10.11
268	Sinopec Qingdao Petrochemical		P1003A	Deethane tower feed pump	GSB-25/280	C ₂ 、C ₃	23.79	288	49.5	459	1Cr18Ni9Ti	2020.05.30
269	Sinopec Guangzhou Engineering(SINOPEC Beihai Refining & Chemical)	650,000 tons/year fuel hydrogenation unit	1255-P-205A/B	Product fractionation tower top condensation pump	GSB-F-2/59	oily sewage	1.44	59	50	988	A-7	2020.10.07
270	Zhongke (Guangdong) Refining	Zhongke joint venture Guangdong refining and chemical integration project	A113-P-102A/B	Methanol feedstock pump	GSB-F-13/162	methanol	12.8	163	20/40/80	767/820	A-7	2020.10.10

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
271	CNPC Luoyang branch	PTA Huaque reactor feed pump seal pump BG1007B pump update	BG1007B	Sealed water pump	GSB-F-8/220	PW-water	8	220	40	1000	A-7	2020.11.12
272	CNPC Jinling branch (Purchase: Nanjing Jinjia Electromechanical Equipment Co., LTD.)	Sinopec Jinling Branch oil quality upgrading project 8 million tons/year pressure reducing device	P-2005A/B	liquefied gas pump	GSB-F-17/330	liquefied gas	17	330	40	523	A-7	2020.7.30
273	Sinopec Engineering Incorporation	Zhenhai Refining and Chemical Branch 300,000 tons/year gas phase high density polyethylene plant	2212-P-1001A/B	Butene feed pump	GSB-L2-11/468	butene-1	11	468	55/40	574	S-6	2021.03.20
274	Sinopec Engineering Incorporation	Zhenhai Refining and Chemical Branch 300,000 tons/year gas phase high density polyethylene plant	2212-P-1002A/B	Hexene feed pump	GSB-L1-4/458	butene-1	4	458	100/40	653	S-6	2021.03.20
275	Sinopec Engineering Incorporation	Zhenhai Refining and Chemical Branch 300,000 tons/year gas phase high density polyethylene plant	2212-P-1035A	Condensate feed pump	GSB-L1-5/468	condensate	4.2	468	110/40/20	601	S-6	2021.03.20
276	Sinopec Engineering Incorporation	Zhenhai Refining and Chemical Branch 300,000 tons/year gas phase high density polyethylene plant	2212-P-5047	Low pressure condensate pump	GSB-L1-2/435	hydrocarbon	2	435	40	680	S-6	2021.03.20
277	CNPC Qilu branch		P1809		TL8-70	water	8	70		1000		cancelled
278	Sinopec Nanjing Engineering	1 million tons/year ethylene and refining renovation and expansion project 550,000 tons/year cracked gasoline hydrogenation unit	1102-P-150A/B	One stage feed pump	GSB-L2-61/345	C6~C8 hydrocarbon	61.1	345	43	836.7	A-7	2021.9.6
279	Sinopec Nanjing Engineering	1 million tons/year ethylene and refining renovation and expansion project 350,000 tons/year aromatics extraction device	1103-P-111	Wet solvent transfer pump	GSB-F-5/142	sulfolane C6~C8/ sulfolane	5	142	40	850/1260	A-7	2021.9.6
280	Sinopec Luoyang Engineering	1 million tons/year ethylene and refining expansion project/light hydrocarbon recovery	109-P-102A/B	Desulphurization tower inlet separation tank condensate pump	GSB-F-1.5/98	C2~C5+	1.3	98	37.2	549.93	A-7	2021.9.16
281	Sinopec Luoyang Engineering	1 million tons/year ethylene and refinery renovation and expansion project 2.6 million tons/year Hydrocracking unit	104-P-301AB	Low gas desulfurization tower lean amine liquid pump	GSB-L1-15/309	amine-deficient solution H2S	15	309	60	986.2	A-7	2021.9.16
282	Sinopec Baling Petrochemical	Lactam industry interlock relocation and upgrading transformation development project--esterification Cycloacetone unit Line A // Esterified cycloacetone unit line B	P-1510-310A/B	Ester hydrogenation feed pump	GSB-L3-59/650	cycloethyl acetate	58.3	650	40	950	A-7	2022.10
283	Sinopec Baling Petrochemical	Lactam industry interlock relocation and upgrading transformation development project--esterification Cycloacetone unit Line A // Esterified cycloacetone unit line B	P-1510-601A/B	Cycloethane hydrogenation feed pump	GSB-L1-20/200	98.3%ethylene oxide 1.3%oxirene 0.3%benzene	20	200	83	728	A-7	2022.10
284	Sinopec Baling Petrochemical	Lactam industry interlock relocation and upgrading transformation development project--esterification Cycloacetone unit Line A // Esterified cycloacetone unit line B	P-1520-310A/B	Ester hydrogenation feed pump	GSB-L3-59/650	cycloethyl acetate	58.3	650	40	950	A-7	2022.10
285	Sinopec Baling Petrochemical	Lactam industry interlock relocation and upgrading transformation development project--esterification Cycloacetone unit Line A // Esterified cycloacetone unit line B	P-1520-601A/B	Cycloethane hydrogenation feed pump	GSB-L1-20/200	98.3%ethylene oxide 1.3%oxirene 0.3%benzene	20.7	200	83	728	A-7	2022.10

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Densitykg/ m3	Pump Material	Factory Time
286	Sinopec Baling Petrochemical	Lactam industry interlock relocation and upgrading transformation development project--Residual treatment	P-4300-001A/B	Furnace residual pump	GSB-F-13/212	cycloacetone waste liquid	13	212	95/110	1200	A-7	2022.10
287	Sinopec Baling Petrochemical	Lactam industry interlock relocation and upgrading transformation development project--Residual treatment	P-4300-003	Furnace waste liquid pump	GSB-F-3/255	furnace waste liquid	3	255	/	1000	A-7	2022.10
288	CNPC Qilu branch	Processing high sulfur and high acid crude oil adaptive transformation project / 2.6 million tons/year Wax oil hydrogenation unit	022-P-301	Lean amine pump	GSB-Q-20/300	amine-deficient solution	20	300	55	993	A-7	2022.09.19
289	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-111A/B	Circulating solvent pump	GSB-H-99/448	solvent (hexamethylene alkyl)	99	448	45	755.55	S-6	2022.12.28
290	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-231A/B	High pressure solvent pump	GSB-Q-132/327	cycloethane, dissolved ethylene	132	327	50.7	666.28	A-7	2022.12.28
291	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-113A/B	Hot solvent flush pump	GSB-L2-24/635	solvent (hexamethylene alkyl)	24	635	43.9	755.55	S-6	2022.12.14
292	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-114A/B	High pressure solvent pump	GSB-L2-7/682	solvent (hexamethylene alkyl)	6.4	682	43.9	755.55	S-6	2022.12.14
293	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-243	Pressure drain transfer pump	GSB-L1-9/149	C4,ethylene	9	149	40	647	S-6	2022.12.07
294	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-451	Carbon 4 feed pump	GSB-L2-8/564	C4	7.8	564	40	563.3	S-6	2022.12.07
295	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-452B	Carbon VI and solvent feed pump	GSB-L1-12/148	C6,solvent	12	148	normal	651.9(C6) 756.41(solvent)	S-6	2022.12.07
296	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-612A/B	Humidifying pump	GSB-L2-8/476	condensed water	7.5	476	120.4	944.9	S-6	2022.12.07
297	Beijing Yanshan Yulong Pec Co., LTD	Sinopec Tianjin Nangang 1.2 million tons/year ethylene and downstream high-end new materials industrial group project 200,000 tons/year LAO device	1090-P-612A/B	Humidifying pump	GSB-L2-8/476	condensed water	7.5	476	120.4	944.9	S-6	2022.12.07
298	Sinopec Yanshan Branch oil refining plant 2	1.2 million tons/year diesel hydrogenation unit to add a circulating hydrogen desulfurization system	P-501A	Lean amine pump	GSB-H-28/773	MDEA aqueous solution	28	773	45	1023	S-8	2022.09.05
299	CNPC Yanshan branch	Chemical plant diphenol plant large alkylation unit energy-saving optimization project	0106-J/JA	Reactor feed pump	GSB-Q-83/422	benzene	83	422	109.5	796.6	A-7	2023.05.10
300	Beijing Yanshan Yulong Pec Co., LTD	Post-ether carbon 4 resource recycling technology transformation project	P-401AB	Feedstock feed pump	GSB-F-25/262	C4	24.9	262	40	582	A-7	2023.03.04

Sinopec Performance Table of Zhejiang Tiande Pump Co., Ltd

Num.	Company Name	Project/Device name	Item	Service	Model	Medium	Flow m3/h	Head m	OT ℃	Medium Density kg/m3	Pump Material	Factory Time
301	Sinopec Yangzi Petrochemical	Designed by Sinopec Engineering Incorporation 300,000 tons/year alkylation equipment and supporting project	188-P-810A	ow pressure boiler feed pump	GSB-F-7/168	deoxygenated water	6.7	168	40/155/17 5	912	S-6	2023.08.15
302	Sinopec Yangzi Petrochemical	Designed by Sinopec Engineering Incorporation 300,000 tons/year alkylation equipment and supporting project	160-P-102A	Decarbonizer feed pump	GSB-F-26/270	C3 C4	25.4	270	40	519	A-7	2023.08.15
303	Sinopec Guangzhou Engineering	Naphtha, light diesel comprehensive utilization project 250,000 tons/year Light naphtha hydrofining unit 200,000 tons/year Hydrogenation of light diesel oil	9720-P-201A/B	Top return pump for debutane tower	GSB-L1-23/204	debutane top oil	23	204	50	553	A-7	producing
304	Sinopec Guangzhou Engineering	Naphtha, light diesel comprehensive utilization project 250,000 tons/year Light naphtha hydrofining unit 200,000 tons/year Hydrogenation of light diesel oil	9720-P-205A/B	C5 separation tower top return pump	GSB-L1-27/252	C5separation tower overhead oil	26.5	252	40	616	A-7	producing
305	Sinopec Guangzhou Engineering	Naphtha, light diesel comprehensive utilization project 250,000 tons/year Light naphtha hydrofining unit 200,000 tons/year Hydrogenation of light diesel oil	9710-P-201A/B	Reaction feed pump	GSB-L2-41/531	cracked naphtha	40.5	531	40	850	A-8	producing