



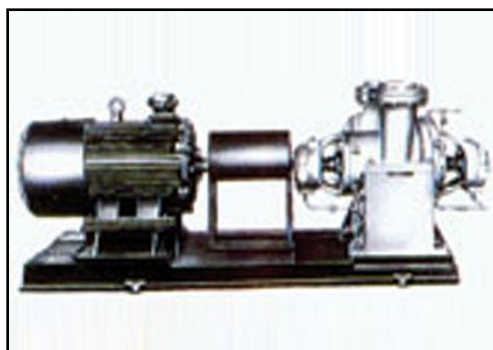
CRIMAR INDUSTRIAL

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Series BY Oil Pump



A: Series BY Single & Double Stage Oil Pump

Explanation of Type:

For example, 100BY120*2A

100	Diameter of Suction (mm)
B	The second modification
Y	Centrifugal Oil Pump
120	Head at single stage (m)
2	Stage number
A (B, C)	First (Second, Third) Cutting to the Impeller

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For example, 250BYS80B	
250	Diameter of Suction (mm)
B	The second modification
S	Impeller is double-suction type at first stage
80	Head at single stage (m)
B (A, C)	The Second (First, Third) Cutting to Impeller

Features:

1. Series BY Single Stage & Double Stage Pump is widely used in petroleum & chemical industry, oil refinery and chemical industry and other fields delivering medium with high temperature and high viscosity.
2. Flow capacity is between 2.5-600m³/h, head is between 30-330m, and temperature is between -45°C to 420°C. High quality cast iron is used for wet parts when temperature is from -20°C to +150°C, high quality cast steel and stainless steel can be used for temperature from -45°C to 420°C. Material of fragile parts such as seal ring, wear ring and shaft sleeve is stainless steel.
3. Adopting CFD software analysis, good hydraulic performance, high efficiency, and saving energy. The efficiency is improved by 6-9% compared with the old generation. It has 3-Dimensional moulding, reasonable construction, and high general-application degree. Driving parts are strengthened, high reliability. Multi-stages pump adopts advanced sliding and thrust bearings.
4. Cooling mode is water-cooling, and the cooling effect is perfect. We designed the pump as per API610 standard complying with international standard.
5. This pump has wide application in refinery, oil chemical and chemical industry. Taking advantage of anti-wear material of Kingda Group, BY series pump can be used in the condition of liquid containing solid particles.
6. New type mechanical seal is adopted for enciroment protection and no leakage will occur. Diaphragm coupling is adopted for easy assembly.

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Technical Parameter Table

Type	Flow m3/h	Head m	Speed r/min	Eff. %	NPSH m	Shaft Power kW	Motor Power kW
4BY40*2	6.25	80	2950	31	2.7	4.4	7.5
40 BY40*2A	5.85	70	2950	31	2.7	3.6	5.5
40 BY40*2B	5.4	70	2950	31	2.7	2.85	4
40 BY40*2C	4.9	50	2950	31	2.7	2.17	3
50BY60	12.5	70	2950	42	2.9	5.67	7.5
50BY60A	11.2	53	2950	39	2.9	4.1	5.5
50BY60B	9.9	39	2950	37	2.8	2.8	4
50BY60*2	12.5	120	2950	37	2	11	15
50BY60*2A	12	105	2950	36	2	9.5	15
50BY60*2B	11	90	2950	35	1.9	7.7	11
50BY60*2C	10	76	2950	35	1.7	6	11
65BY60	25	60	2950	56	3.1	7.3	11
65BY60A	22.5	49	2950	54	2.8	5.6	7.5
65BY60B	20	37.5	2950	52	2.5	3.9	5.5
65BY100	25	110	2950	47	3	15.9	22
65BY100A	23	92	2950	46	2.9	12.5	18.5
65BY100B	21	73	2950	44	2.9	9.5	15
65BY100*2	25	205	2950	48	2.8	29.1	45
65BY100*2A	23	178	2950	47	2.7	23.7	37
65BY100*2B	22	154	2950	46	2.7	20.1	30

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65BY100*2C	20	130	2950	45	2.6	15.7	22
80BY60	50	60	2950	62	3.2	13.2	18.5
80BY60A	45	49	2950	61	3	9.9	15
80BY60B	40	38	2950	60	3	6.9	11
80BY100	50	104	2950	59	3.1	24	37
80BY100A	45	85	2950	56	3	18.6	30
80BY100B	40	75	2950	54	2.9	15.3	22
80BY100*2	50	200	2950	57	3.6	47.8	75
80BY100*2A	47	175	2950	55	3.5	40.7	55
80BY100*2B	43	153	2950	53	3.3	33.8	45
80BY100*2C	40	125	2950	51	3.3	26.7	37
100BY60	100	63	2950	72	4	23.8	37
100BY60A	90	49	2950	71	3.8	16.9	30
100BY60B	79	38	2950	67	3.5	12.2	18.5
100BY120	100	123	2950	66	4.3	50.6	75
100BY120A	93	108	2950	62	4	44.1	75
100BY120B	86	94	2950	62	3.8	35.5	55
100BY120C	79	75	2950	59	3.6	27.5	37
100BY120*2	180	240	2950	61	4.5	107.2	160
100BY120*2A	93	205	2950	60	4.3	86.6	132
100BY120*2B	86	178	2950	59	4.2	70.7	110
100BY120*2C	79	150	2950	58	4.1	55.7	75
150BY75	480	80	2950	75	3.9	52.3	75

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150BY75A	160	66	2950	74	3.8	38.9	55
150BY75B	145	46	2950	73	3.6	24.9	37
150BY150	180	157	2950	69	3.6	111.6	160
150BY150A	168	137	2950	68	3.3	92.2	132
150BY150B	155	116	2950	67	3.2	73.1	110
150BY150C	140	94	2950	65	3.1	55.5	75
150BY150*2	180	300	2950	67	3.6	219.5	315
150BY150*2A	167	258	2950	65	3.2	180.5	250
150BY150*2B	155	222	2950	62	3	151.1	220
150BY150*2C	140	181	2950	60	2.9	115	160
200BY75	300	75	2950	79	5.5	77.6	110
200BY75A	275	67	2950	75	6.3	67	90
200BY75B	248	57	2950	72	6.1	53.5	75
200BY150	300	150	2950	76	4.7	161	220
200BY150A	270	137	2950	75	4.2	132	185
200BY150B	243	127	2950	73	3.8	115.1	160
200BY150C	219	112	2950	72	3.5	92.8	132
200BY150*2	300	300	2950	74	5.5	331.2	450
200BY150*2A	287	270	2950	73	5.4	289	400
200BY150*2B	270	239	2950	72	5.2	244	355
200BY150*2C	247	195	2950	70	5.0	187.4	250
250BYS80	500	80	2950	82	6.5	132.8	185
250BYS80A	440	62	2950	81	6.5	91.7	132

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250BYS80B	370	44	2950	80	6.5	55.4	90
250BYS150	500	153	2950	79	4.8	264	315
250BYS150A	472	136	2950	78	4.6	224	280
250BYS150B	444	119	2950	77	4.2	187	250
250BYS150C	400	96	2950	76	4	138	185
250BYS150*2	500	303	2950	79	4.8	522	630
250BYS150*2A	472	272	2950	79	4.5	443	560
250BYS150*2B	444	230	2950	78	4.3	357	400
250BYS150*2C	400	190	2950	77	4	269	315

B: Series BY Multi-stage Oil Pump

Explanation of Type:

100BY67*8

100: Diameter of Suction

B: Second modification to the pump

Y: Oil Pump

67: Head for single stage (m)

8: No. of Stage

Features:

1. This series pump is widely used in petroleum & chemical industry, oil refinery and chemical industry and other fields for delivering medium wit high temperature and high viscosity.
2. This pump adopts radial parts segment structure, which connects the suction segment, intermediate segment and discharge

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segment together.

3. Adopting CFD analysis, good hydraulic performance, and high efficiency and saving energy. The efficiency is higher than old generation by 3-6%.

4. 3-Dimensional shaping, reasonable construction, high general-application.

5. High reliability by adopting advanced sliding and thrust bearings.

6. It is designed as per API 610, complying with international standards.

7. Wide applicability: it can be applied in oil refinery, oil chemical and chemical industry. Taking advantage of our experience in wear material, the BY series pump can be used in the condition of liquid containing solid particles.

8. Material of wet parts is high quality cast steel of stainless steel which can be determined according to the site conditions and requirements of customers. Material of seal ring, lip ring and shaft sleeve and so on is stainless steel.

Technical Parameter Table

Type	Capacity m ³ /h	Head m	Speed r/min	Efficiency %	Shaft Power kW	Motor Power kW	NPSH m	Impeller Dia. mm
40BY35*3	6.25	111	2950	28	6.7	7.5	2.8	175
40BY35*45	6.25	148	2950	28	8.9	11	2.8	175
40BY35*5	6.25	185	2950	28	11.2	15	2.8	175
40BY35*6	6.25	222	2950	28	13.5	18.5	2.8	175
40BY35*7	6.25	259	2950	28	15.8	22	2.8	175
40BY35*8	6.25	296	2950	28	18	22	2.8	175

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40BY35*9	6.25	333	2950	28	20.3	30	2.8	175
40BY35*10	6.25	370	2950	28	22.5	30	2.8	175
40BY35*11	6.25	407	2950	28	24.8	30	2.8	175
40BY35*12	6.25	444	2950	28	27.1	37	2.8	175
50BY35*3	12.5	114	2950	43	9	11	3.5	175
50BY35*4	12.5	152	2950	43	12	15	3.5	175
50BY35*5	12.5	190	2950	43	15	18.5	3.5	175
50BY35*6	12.5	228	2950	43	17.9	22	3.5	175
50BY35*7	12.5	266	2950	43	21	30	3.5	175
50BY35*8	12.5	304	2950	43	24.1	30	3.5	175
50BY35*9	12.5	342	2950	43	27.1	37	3.5	175
50BY35*10	12.5	380	2950	43	30.1	37	3.5	175
50BY35*11	12.5	418	2950	43	33.1	45	3.5	175
50BY35*12	12.5	456	2950	43	36.1	45	3.5	175
65BY50*5	25	250	2950	49	34.5	45	3.5	200
65BY50*6	25	300	2950	49	41.4	55	3.5	200
65BY50*7	25	350	2950	49	48.5	55	3.5	200
65BY50*8	25	400	2950	49	55.2	75	3.5	200, , ,
65BY50*9	25	450	2950	49	62.1	75	3.5	200
65BY50*10	25	500	2950	49	69.1	90	3.5	200
65BY50*11	25	550	2950	49	75.9	90	3.5	200
65BY50*12	25	600	2950	49	82.8	110	3.5	200
80BY50*5	45	270	2950	61	54.2	75	4	200

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80BY50*6	45	324	2950	61	65.1	75	4	200
80BY50*7	45	378	2950	61	75.9	90	4	200
80BY50*8	45	432	2950	61	86.8	110	4	200
80BY50*9	45	486	2950	61	97.6	110	4	200
80BY50*10	45	540	2950	61	108.5	132	4	200
80BY50*11	45	594	2950	61	119.3	132	4	200
80BY50*12	45	648	2950	61	130.2	160	4	200
100BY67*6	80	402	2950	66	132.6	160	4.5	235
100BY67*7	80	469	2950	66	154.8	185	4.5	235
100BY67*8	80	536	2950	66	176.8	200	4.5	235
100BY67*9	80	603	2950	66	198.9	200	4.5	235
150BY67*6	150	402	2950	74	221.9	280	4	240
150BY67*7	150	469	2950	74	258.9	315	4	240
150BY67*8	150	536	2950	74	295.9	355	4	240
150BY67*9	150	603	2950	74	332.9	400	4	240

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