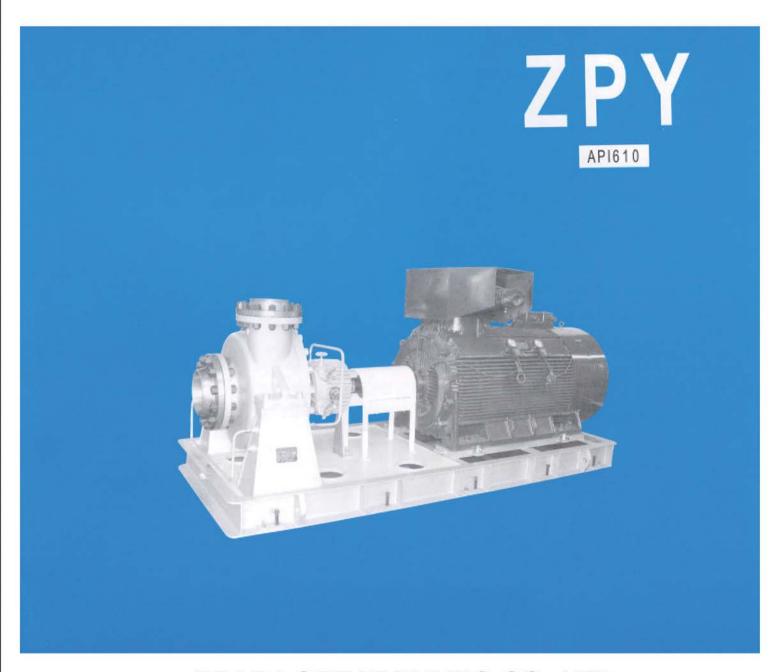


LINED SLURRY PUMP



EBARA GREAT PUMPS CO.,LTD

ZPY slurry pumps are single-stage, single-suction, horizontal type, double-casing, and centerline-mounted process pumps for the petrochemical industry.

Applicable Occasions

Refineries

It is especially applicable to the conveying of media containing solid catalyst particles under high temperature in the fluid catalytic cracking (FCC) process in refineries.

- Petrochemical industry
- Other chemical industries

Performance Range

● Flow rate: maximum1500 m³/h

● Head: maximum230 m

● Rotating speed: 1,450/2,900 rpm

Maximum allowable working pressure: 5.0MPa

• Temperature range: maximum420 °C

• Flange standard: GB9115, or other standards as required

● Turning direction: observed from the drive side, the impeller rotates clockwise.

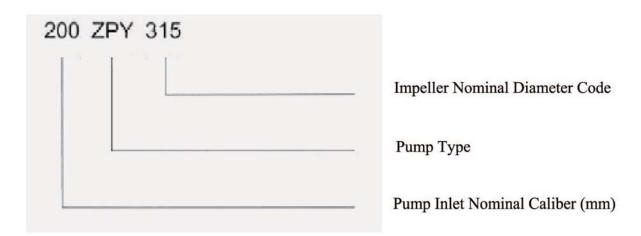
● Inlet/outlet direction: End-Top

Structural Features

- ●It adopts the double-casing structure. The outer casing is a pressure-containing member designed according to API610; it has high strength and good rigidity and can ensure service life of more than 20 years; the inner casing is made of abrasion proof and erosion proof material, and is convenient to be replaced.
- The outer casing is designed to be centerline-mounted and suitable for heavy duty.
- The rotor is back pull-out designed, which is convenient for maintenance.
- The flow passage components are optimally designed with enclosed impellers, inducer as an option which enlarge high efficiency scope and enables low NPSHr and wide applicable medium

- The axial force is balanced by balance orifice, and residual axial force is borne by the thrust bearing.
- There is a cooling water chamber in the bearing bracket and sealing chamber, which can ensure the safe and reliable operation under high temperature.
- The bearing box is equipped with single-row radial ball bearing and back-to-back two-row thrust ball bearing. The bearing can be lubricated through splashing of thin oil, making it possible to run in all weathers.
- It is equipped with a flexible metallic diaphragm type coupling, safe and reliable.
- It is equipped with cartridgetype corrugated metal pipe mechanical seal and auxiliary devices, convenient and safe.

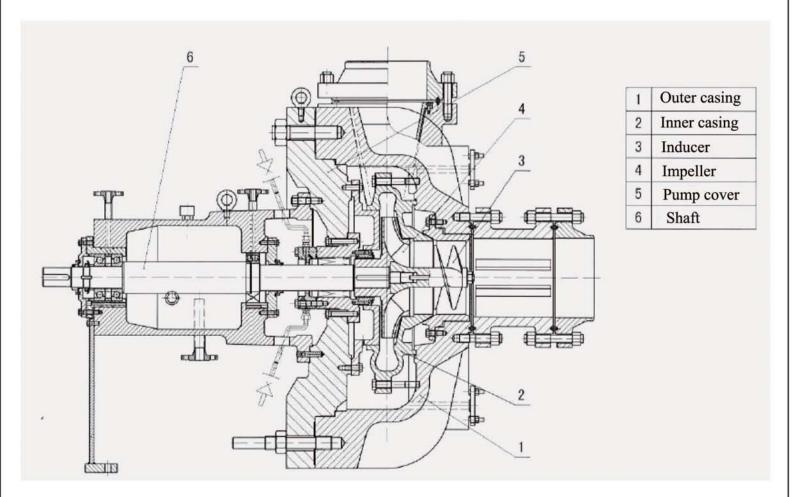
Marking Mode



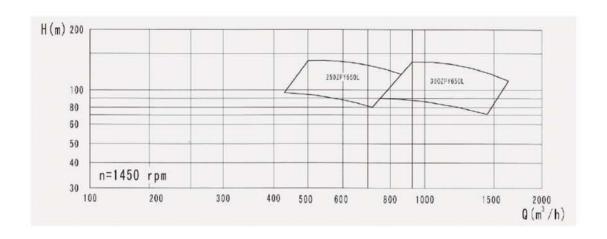
Materials Used

No.	Part Name	Material-1	Material-2 Selected according to the medium condition					
1	Outer casing	A487M Gr CA6NM A						
2	Inner casing	A4352 11	Selected according to the medium condition					
3	Inducer	A487M Gr CA6NM A	Selected according to the medium condition					
4	Impeller	A4352 11	Selected according to the medium condition					
5	Pump cover	A487M Gr CA6NM A	Selected according to the medium condition					
6	Shaft	A487M Gr CA6NM A	Selected according to the medium condition					

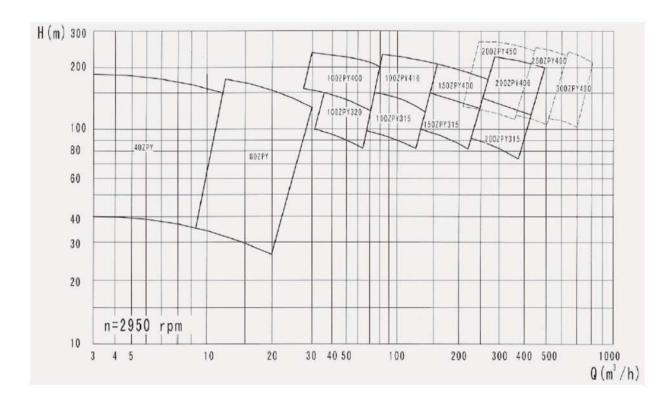
Pump Structural Diagram



[Model Spectrum 1 (only for preliminary model selection)



Model Spectrum 2 (only for preliminary model selection)



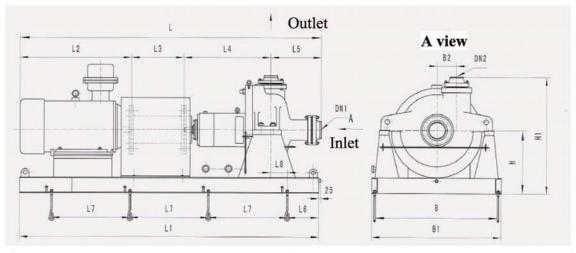
Note: the pump type in dotted line frame uses large-size casing.

Standard Performance Table

Performance	Flow	Head	Rotation Speed	Efficiency	
Parameters	Q	H	n	\Ç	
Model	(m^3/h)	(m)	(rpm)	(%)	
40ZPY	3-11	180	2,950	14	
80ZPY	8-25	180	2,950	18-33	
100ZPY315	141	127	2,950	69	
100ZPY320	87	115	2,950	56	
100ZPY400	82	194	2,950	48	
100ZPY410	171	187	2,950	61	
150ZPY315	250	126	2,950	78	
150ZPY400	300	194	2,950	74.5	
200ZPY315	442	125	2,950	82.5	
200ZPY400	520	205	2,950	78.5	
200ZPY450	420	134	2,950	68	
250ZPY400	587	115	2,950	73	
300ZPY400	700	120	2,950	75	
250ZPY650L	900	125	1,480	75	
300ZPY650L	1,400	120	1,480	82	

(Data in the table are only for reference)

Installation Dimension Figure (only for reference)



出口	Outlet
A向	A view
进口	Inlet

Pump	Motor Prov	rided				E				NIv				B2	Н	H1	DN1	DN	Weight (kg)	
Model	Model	Power (kW)	L	L1	L2	L3	L4	L5	L6	17	L8	В	В1						Pedestal	Pum
	YB100L-2	3	1,458	1,590	430		\top			2× 600									210	
	YB112M-2		1,488	1,390	460														210	
	YB132S1- 2	5.5						02182		2× 600					410				220	
40ZPY	YB132S2-	7.5	1,548	1,650	520	150	0660					700	750	90		775	DN4 0	DN 32		180
	YB160M1-	11				X				2×										1
	YB160M2- 2	15	1,698	1,800	670					650									250	
	YB100L-2	3	1,518	1,650	430			32452											580	
	YB112M-2	4	1,548	TO ALL ASSESSMENT	460					2x6 00										
	YB132S1-	5.5																	600	
	YB132S2- 2		1,608	1,700	520												DN8 0			
80ZPY	YB160M1- 2	1	1 750		670	200	00643		250	2x7 00	780	790	00840	0130	490	0891		DN 50	600	470
OUZF I	YB160M2- 2	15	1,758	1,920	670	-DF65													680	170
	YB160L-2		1,798		710															
	YB180M-2	22	1,818		730															
	YB200L1- 2		1 909		010					2-7									710	
	YB200L2- 2	37	1,090		010					2x7 50										
	YB225M-2	45	1,928		840															
100ZPY31	YB200L2- 2	37	2,032		810	200	712	200	200	3x5 50	90	010	060	0220	560	1,025	DN1	DN	N 900	780
5	YB225M-2	45	.5 2,062 .5	2,100	840	200	.5	280)300		80	910	900		300		00	80		

-	YB225M-2	45	2,062 .5		840	ı														
	YB250M-2	55	2,172 .5	2,270	950														950	
	YB280S-2	75	2,232 .5	2,330	1,0 10														1,010	
	YB280M-2	90	2,452 .5	2,550	1,3 30					3x6 50									1,080	
	YB180M-2		1,829	1,930	730					2x7 00									680	
100703/22	YB200L1- 2	30	1 000		910					2x7 50							DNI	DN 80	720	7
0	2 YB200L2- 2	37	1,909	2,040	010	200	654	245	250		80	790	840	130	490	891	00		/20	740
	YB225M-2	45	1,939		840														1	
	YB250M-2	55	2,049	2,150	950					3x5 50									760	
	YB250M-2	55	2,142 .5		950		712	280		3x6										
100ZPY40	YB280S-2	75	2,202 .5	2,300	1,0 10	200					80	910	960	220	560	1,025	DN1 00	DN	1,000	890
	YB280M-2	90		12/12/2014		1				3x7								00		7
	YB315S-2		2,522 .5	2,650	30					00									1,120	
	YB280M-2		2,522	_	1,3															+
	YB315S-2		.5		30					3x7					560		DN1 00		e concern	
100ZPY41	YB315M-2		2,022	2,650	1,5	200	712	280		00	80	910	960	220		1,025		DN	1,120	890
U	YB315L1-	l .	.5 2,692	2,800			.5			3X/							00	80	1,190	
	YB280S-2			2,300						50 3x6					-				1,000	
1 507 DV2 1	YB280M-2	00	2.522		10		710			00							DNI			-
130ZP 131			2,522 .5	2,650	30	200	5	280	300	2-7	80	910	960	220	560	1,025	50	100		890
3	YB315S-2 YB315M-2		2,332	2,650	1,5		.5			00						i A	30		1,120	
	YB315S-2	PAY FAQ	.5 2,522		1,3														1,120	+
	YB315M-2		.5 2,552	2,650						3x7 00 3x7				50220			DN1 50			
	YB315L1-		.5 2.692		1.5		712								560	1,025				1
	YB315L-2	185	2,692 .5	2,800	00	200		280	300	50	80	910	960						1,190	890
	2	200	3,012 .5	3 110	1,8														1,310	
	2	220								3x8 50									1,510	-
	YB400M1- 2	250	3,092 .5	3,200	1,9 00														1,350	
	YB315M-2	132	2,625 .5	2,730	1,3					3x7 00									1,250	
	YB315L1-	160	2,765		1,5					4x6									1 320	
200ZPY31	YB315L-2	185	.5	2,070	00	200	727	338	300	00	100	1,1	1,1	210	645	1,150	DN2	DN	1,520	
5	VD400C1	200	3 085		1	200	.5			4x6		10	60	210		,,,,,,	DN2 00	150		920
	YB400S2- 2	220	3,085 .5	3,190	20					50									1,460	
	YB315L-2	185	2,890	2,990	1,5 00					4x6 00									1,680	
200ZPY40 Y 2 2 Y 2	YB400S1-	200	1				765	325			100	1,2	1,2	220	650	1,200	DN2 00	DN 150		1,1
	YB400S2-	220	3,210	3,310	20					4x7 00		****							1,850	00

	YB400M1-	250																		
	2 YB400M2-		3,400	1,9 00														1,910		
	2 YB450S1-	280							ě											4
	2	315																		
	YB450S2- 2	355	3,440	3,550	2,0 50				2	4x7 50								1	2,000	
	YB450S3-	400																		
	YB450M1- 2	450	3,580	3,680	2,1 90				8	4x7 80									2,070	1
	YB315S-2	110	2 750		1,3					4x8								Г		
	YB315M-2	132	3,780	3,880	1,3					50									2,550	
	YB315L1-	160					110		15	5x7	,									3,900
200ZPY45	2 YB315L-2		3,920	4,020	00	685		635	300		400	1,6 00	5 1,6 50	285	810	1,480	DN2	150	2,640	
0	YB400S1-	200			55.020	005					100				810	1,100	00			
	2 YB400S2-		4,240	4,350	1,8 20					5x7									2,860	
	2	220								50										
(2)	YB400M1- 2	250	4,320	4,420	1,9 00														2,900	
250ZPY40 0	YB315L-2	185	3,920	4,020	1,5 00 1,8 20	685			8	4x9 00									2,640	
	YB400S1-	200							9											1
	YB400S2-	220	4,240	4,420			110	635	300	5x7	400	1,6	1,6	285	810	1,480	DN2	DN		4,100
	YB400M1-	250					0			50		00	30				30	200	2,900	
-	2 YB400M2-		4,320		1,9 00															
300ZPY40	2 YB400S2-			4 2 5 0	1.8					5x7			\vdash		-		_		2.050	+
0	2 YB400M1-	220	4,240	4,350	20	-			2	50	400		6 1,6	⁶ 285					2,860	_
			4 320	4 420	1,9 00	685									810	1,535			2,900	
	YB400M2- 2		1,520	1,120			1,1	635	300			1,6 00						DN 250		4,300
	YB450S1-	315																10000000		
	YB450S2-	355	4,470	4,570	2,0 50														3,000	
250ZPY65	YB450S1-	315													Н					+
0	4 YB450S2-	355	4,088	4 190	2,0		W 350		8	4x9					5 %				3 400	
	4 YB450S3-	400	1,000	,,150	50	400	1,2 00	438	300	00	100	1,8 50	1,9 00	350	1,0 00	1,950	DN2 50	DN 150	3,400	7,000
	4 YB450M1-			TIS I PURING A	-	-											53.60			-
300ZPY65	4 YB450S1-		4,228	4,330	90	_				5x7 50									3,600	4
0	4	315											3 1,9							
	YB450S2- 4	355	4,088	4,190					1	4x9 00									3,400	
	YB450S3-	400					1,2	438	300			1,8		350	1,0 00	1,950	DN3	DN 250		8,500
i.	YB450M1-	450			25.72	1	00									1,200	700			1
-	YB450M2-		4,228	4,330	90					5x7										
4	4	500			2150															

Supply Range of Complete Set

- Pump;
- Motor; Fire proof motor or common motor available as option
- Baseplate and anchor bolts;
- Coupling;
- Pump inlet/outlet companion flanges.

Ordering Instructions

- The pump model, material, type of gland seal and electric motor will be decided according to the service conditions. Specification including the medium name, characteristics (density, temperature, vapor pressure), flow rate, head, and suction pressure must be provided for model selection.
- Should there be special requirement on motor, please specifythe explosive-proof grade, protection grade, ambient temperature, voltage and frequency
- For shaft seal selecton, please note the type of shaft seal, material, API682 seal pipe code, and so on.



EBARACORPORATION

Head Office

11-1, Haneda Asahi-cho, Ohta-ku,

Tokyo, 144-8510 Japan

Phone:81-3-3743-6111

Fax:81-3-3745-3356

Company Profile

EBARA GREAT PUMPS CO., LTD. Is a joint venture invested by Ebara Corporation, Japan and the Zhejiang Great Industry Share Co., Ltd. The fist investment is 12.2 million U.S. dollar, and 51% of the investment is from Ebara, 49% is from Great.

Being a centrifugal-pump manufacture in the beginning, Ebara was founded in 1912. Up to now, its product line has grown to turbo machinery, including fans, blowers, turbines, and a variety of other equipments such as environment related products and precision machinery. At present, as a specialist in the manufacture of turbo machinery, Ebara is not only a transnational manufacturer of machinery, but a global engineering company that devotes itself to link technologies and products effectively as well. Ebara, by manufacturing and distributing products, strives to promote the safe and effective use of environmental resources and then contributes to create a society in which people can lead happier and healthier lives.

Zhejiang Great Industry Share Co., Ltd., established in 1993, is a new and hi-tech enterprise which manufactures hi-temperature, h-pressure and hi-speed special centrifugal pumps and general service pumps. Great all along serves the industrial fields such as petroleum and petrochemical with advanced administration faith, excellent products as well as high responsibility, so as to rapidly become a high-reputation centrifugal-pump manufacturer in such fields.

The joint venture will introduce all series of advanced technologies of designing and developing API610 Process pumps and general service pumps fromEbara. Replying n Ebara powerful professional technology and Great principle which is "the customers are uppermost", the joint venture, facing the global market, designs, develops and manufactures high-quality centrifugal pumps, for the purpose of supplying customer satisfaction with the newest contemporary achievements and precise, efficient and overall service.

Manufacture: EBARA GREAT PUMPS CO., LTD

Add: No. 111, Fengdu 1st Road, Tangxia Town, Rui'an City, Zhejiang P.R.China 325204

Tel:0086-577-65322260

Fax:0086-577-65322257

Web:www.ebaragreat.com

E-mail:sale@ebaragreat.com

All specifications are subject to change without notice