

IS Water Pump



WELL-TECH EQUIPMENT
威尔国际矿业装备

IS series Single Stage Centrifugal Pump

Descriptions of the IS series single stage centrifugal pump

1) Features:

- a) Hydraulic capability is distributed reasonably
- b) Wide option for user
- c) Centrifugal structure, easy maintenance, Conveniently check and repair
- d) The efficiency and throw is up to advanced international level

2) Applications:

- a) Apply to pumping clear water, hot water for industrial use or agriculture irrigation.
- b) Water drainage

3) Technical data:

- a) Flow: 5.4 - 400m³/h
- b) Head: 4 - 125m
- c) Medium temperature: ≤80oC
- d) Operation pressure: 0.6Mpa

Model Meaning:

For example: IS200-150-315

IS——international standards single-stage single-suction centrifugal Pump

200——inlet diameter of the pump is 200mm

150——outlet diameter of the pump is 150mm

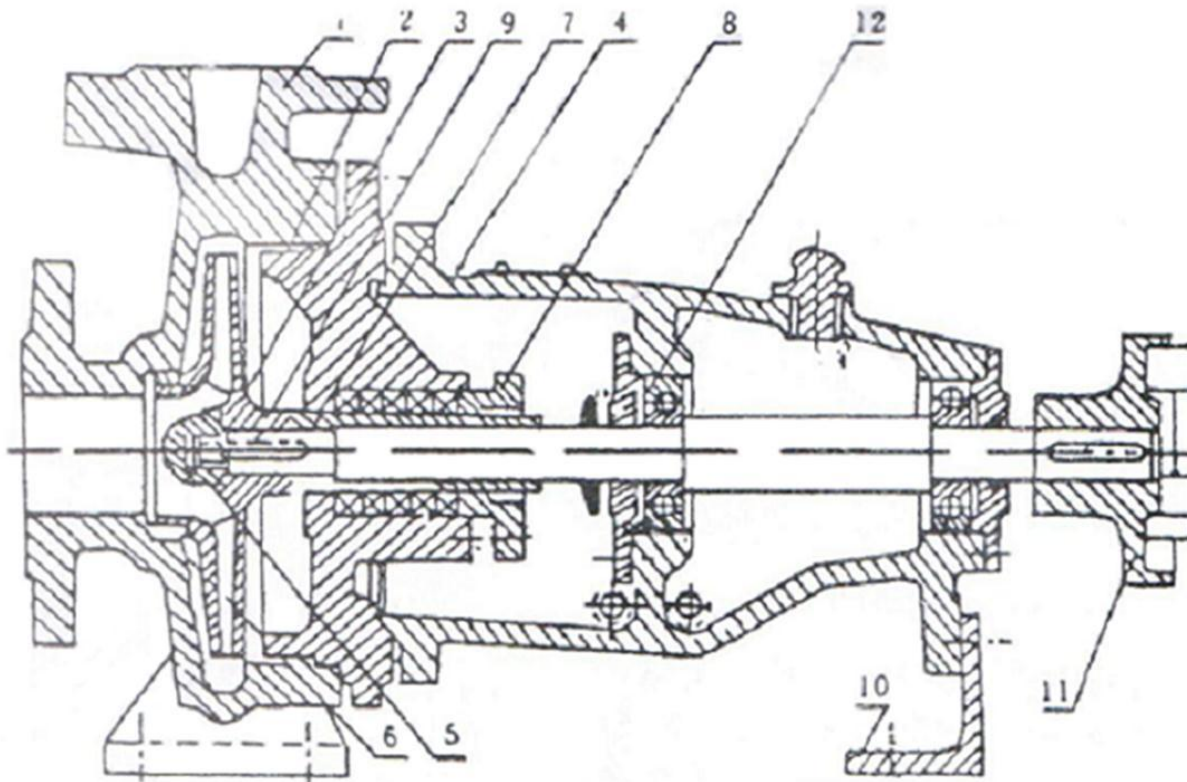
315——nominal diameter of the impeller exit

The performance changed by following rules after cutting impeller

$$Q_2 = Q\left(\frac{D_2}{D}\right) \quad H_2 = H\left(\frac{D_2}{D}\right)^2 \quad N_2 = N\left(\frac{D_2}{D}\right)^3$$

In the equation: Q, H, N, D are the flow, head, power, impeller diameter of the original impeller.

Q₂, H₂, N₂, D₂ are the flow, head, power, impeller diameter of after cutting impeller.



The structure of IS single-stage centrifugal pump

1 2 3 9 7 4 8 12

NO	Name	Material	NO	Name	Material
1	Pump body	Cast iron	7	Shaft protecting sleeve	Cast iron
2	Pump casing	Cast iron	8	Stuffing gland	Cast iron
3	impeller	Cast iron	9	Pump shaft	Steel
4	Bearing body	Cast iron	10	Supporting frame	Cast iron
5	Impeller nut	Steel or cast iron	11	Shaft coupling	Cast iron
6	Seal ring	Cast iron	12	Bearing	Steel

Technical Specifications of IS series single stage centrifugal pump

Model	Speed	Capacity	Head	Shaft power	Motor		Eff	Suction	Dia. Of impeller	Diameter		Weight
	n	Q	H	P	Power	model	η			Inlet	Outlet	
	r/min	m ³ /h	m	kW	kW		%					
IS50-32-250A	2900	11.7	70	5.82	7.5	Y132S ₂ -2	36	7.5	234	50	32	76
	1450	5.9	17.5	0.87	1.5	Y90L-4	30					
IS50-32-250B	2900	10.8	60	4.9	5.5	Y132S ₁ -2	37	7.5	216.5	50	32	76
	1450	5.4	15		1.1	Y90S-4						
	1450	12.5	12.5	0.77	1.1	Y90S-4	55					
IS65-40-200A	2900	23.4	44	4.6	5.5	Y132S ₁ -2	60	7.5	187.5	65	40	46
	1450	11.7	11		0.75	Y90S-4						
IS65-40-250	2900	25	80	10.89	15	Y160M ₂ -2	50	7.5	254	65	40	80
	1450	12.5	20	1.42	2.2	Y100L ₁ -4	48					
IS65-40-250A	2900	23.4	70	9.1	11	Y160M ₁ -2	49	7.5	237.5	65	40	80
	1450	11.7	17.5	1.24	1.5	Y100L ₁ -4	45					
IS65-40-250B	2900	21.7	56	6.5	7.5	Y132S ₂ -2	49	7.5	220	65	40	80
	1450	10.8	14		1.1	Y90S-4						
IS65-40-315	2900	25	125	21.3	30	Y200L ₁ -2	40	7	315	65	40	106
	1450	12.5	32	2.94	4	Y112M-4	37					

IS65-40-315A	2900	24	114	18.6	22	Y180M-2	40	7	301	65	40	106
	1450	12	28.5	2.5	3	Y100L ₂ -4	37					
IS65-40-315B	2900	22.5	102	16.0	18.2	Y160L-2	39	7	286	65	40	106
	1450	11.3	25.8	1.96	2.2	Y100L ₁ -4	36					
IS65-40-315C	2900	21.2	91	13.5	15	Y160M ₂ -2	38.8	7	270	65	40	106
	1450	10.6	22		2.2	Y100L ₁ -4						
	1450	23.4	7		0.75	Y90S-4						
IS80-50-200	2900	50	50	9.87	15	Y160M ₂ -2	69	7	202	80	50	48
	1450	25	12.5	1.31	2.2	Y100L ₁ -4	65					
IS80-50-200A	2900	46.8	44	8.25	11	Y160M ₁ -2	68	7	189.5	80	50	48
	2450	23.4	11		1.5	Y90L-4						
IS80-50-250	1900	50	80	17.3	22	Y180M-2	63	7	250	80	50	86
	1450	25	20	2.27	3	Y100L ₂ -4	60					
IS80-50-250A	2900	46.8	70	14.6	18.5	Y160L-2	61	7	234	80	50	86
	1450	23.4	17.5	1.86	2.2	Y100L ₁ -4	60					
IS80-50-250B	2900	43.3	60	11.8	15	Y160M ₂ -2	60	7	216.5	80	50	86
	1450	21.7	15		2.2	Y100L ₁ -4						
	1450	22.7	25.8	3.13	4	Y112M-4	51					
IS80-50-315C	2900	42.9	92	19.7	22	Y180M-2	51.5	7.0	270	80	50	109
	1450	21.4	23		4	Y112M-4						
IS100-80-125	2900	100	20	7.0	11	Y160M ₁ -2	78	5.5	139	100	80	58

Application:



mining water pump



Diesel engine water pump