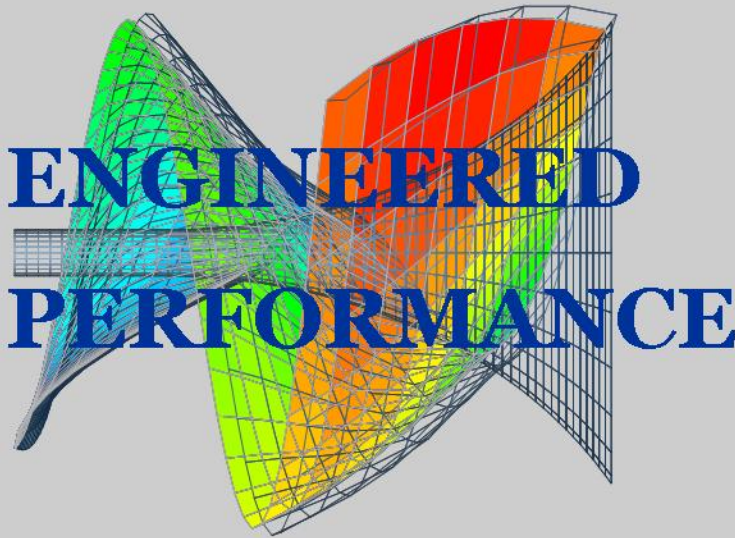


intMPE inc.

International Mineral Processing Equipment



**Industrial Series
API-610 & ANSI**



intMPE MPSSJQP Submersible Slurry Pumps

intMPE Series MPSSJQP Pumps offers advanced structure, optimum combination of solids handling ability, wear resistance and efficiency. It is suitable for pumping liquids with sand, ash and mineral solids up to 60%. It is widely used in metallurgy, mine, steel plant and power plant to pump slurry liquids normally in tailings ponds.

intMPE pumps ASTM A532 Family of materials extends its operation life effectively. MPSSJQP Pumps can be equipped with an agitator (cutter fan) for the purpose of agitation and prevention of clogging on the inlet strainer. Submersible MPSSJQP pumps sink into the water and therefore its discharge force is more powerful than that of other pumps. Moreover, the agitator vane installed in the suction inlet of the pump agitates precipitated substances continuously at high concentration. It is therefore possible to agitate precipitated substances in the liquid such as sand, scale, sludge and black sludge.

Effectively **intMPE** MPSSJQP pump electric motors are isolated from the abrasive slurry being pumped. MPSSJQP pumps successfully utilize rugged cartridge mechanical seals. These seals employ smooth contoured part geometry with hard seal faces and pusher springs located outside the process stream to avoid the erosive and sometimes corrosive attack of the slurry. Unique seal sets can balance the inside and outside pressure of the oil chamber. It is useful to balance the two sides of the mechanical seal. Motor also adopts heat-protector and waterproof sensors. All of them extend the operational life of the **intMPE** pumps.

Operating Condition:

1. The temperature of pumping liquid should not exceed 40°C.
2. Maximum ash solid consistence in the liquid is 30%.
3. Maximum solids density is 1.2kg/L.
4. PH value of liquid is 6~9. Larger in special applications with Advanced Materials.
5. Maximum depth in the liquid of pump set is 20m, Pump must be submerged by liquid for cooling.
6. No operating in inflammable explosive liquid.
7. Continuous operating.

Type meaning:

200MPSSJQP-15-22

MPJQ: Mineral Processing Submersible Slurry JQ Pump

200: Rated capacity in m³/h

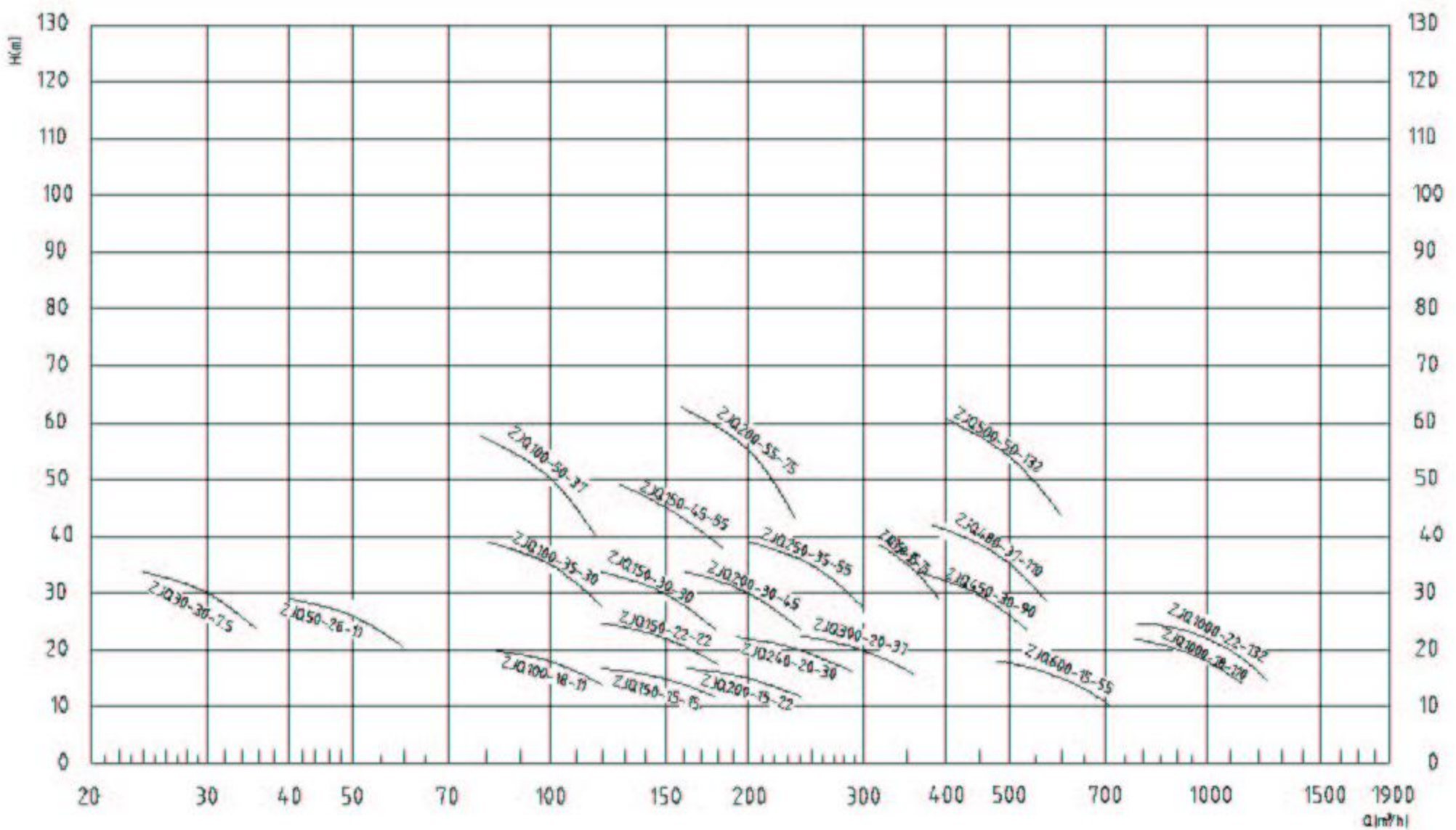
15: Rated head in meters

22: Motor power expressed in KW.

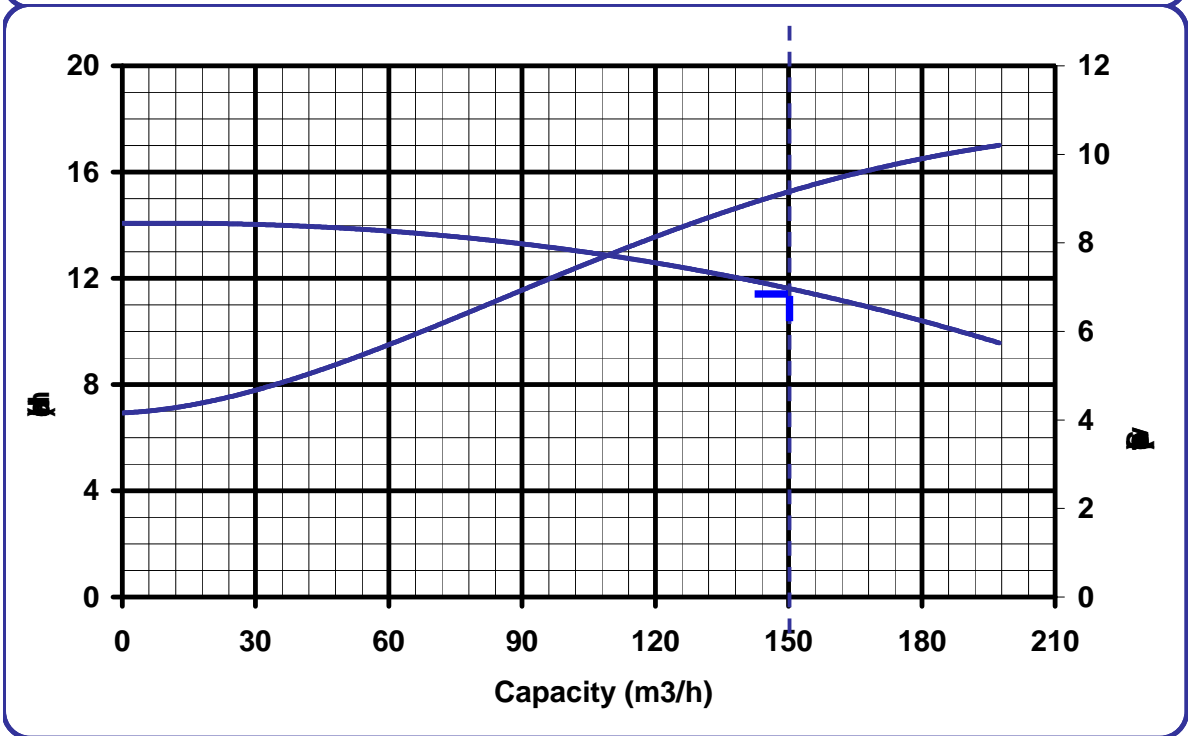
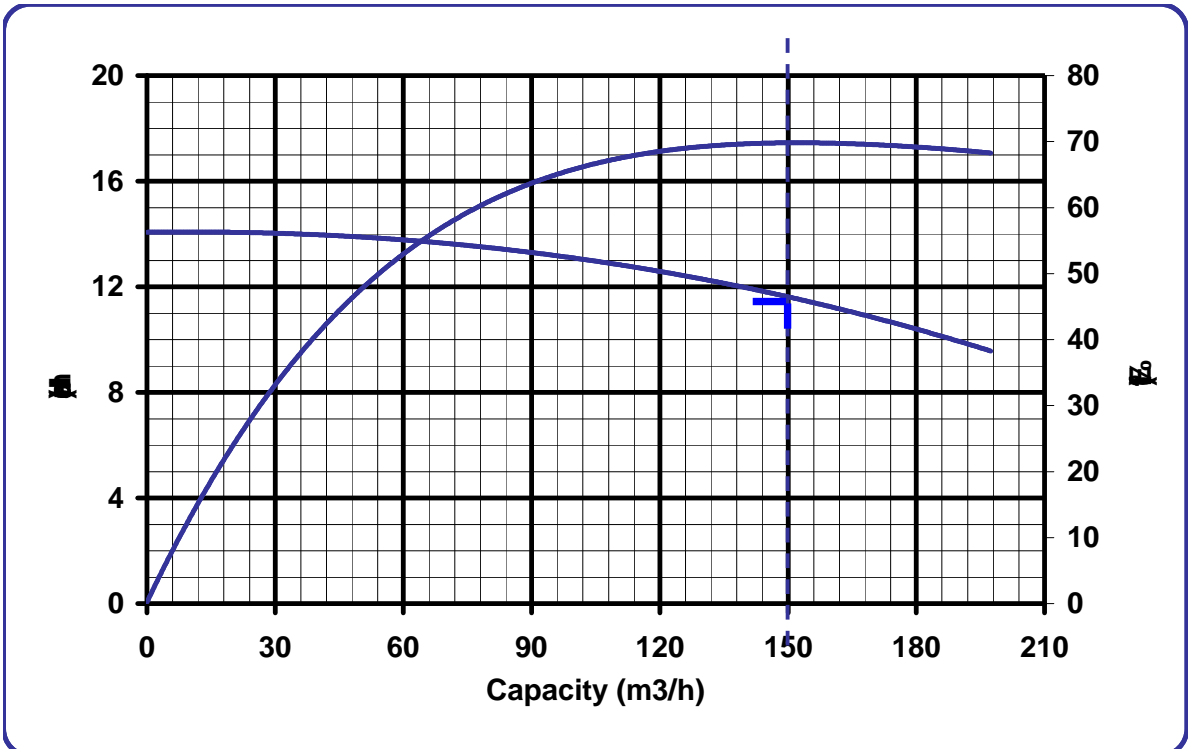
MPSSJQP Slurry pump sizes intMPE has manufactured!

MPSSJQP30-30-7.5 MPSSJQP100-18-11 MPSSZJQP25-40-11
 MPSSJQP150-22-22 MPSSJQP200-15-22 MPSSJQP150-45-55
 MPSSZJP250-35-55 MPSSJQP500-54-132 MPSSJQP650-52-160
 MPSSJQP200-60-90 MPSSJQP200-55-75 MPSSJQP240-20-30
 MPSSJQP780-26-110 MPSSJQP600-15-55 MPSSJQP1000-22-132
 MPSSJQP1000-18-110 MPSSJQP1500-35-250

intMPE also will deign and manufacture MPSSJQP Pumps to your requirement as required by you!



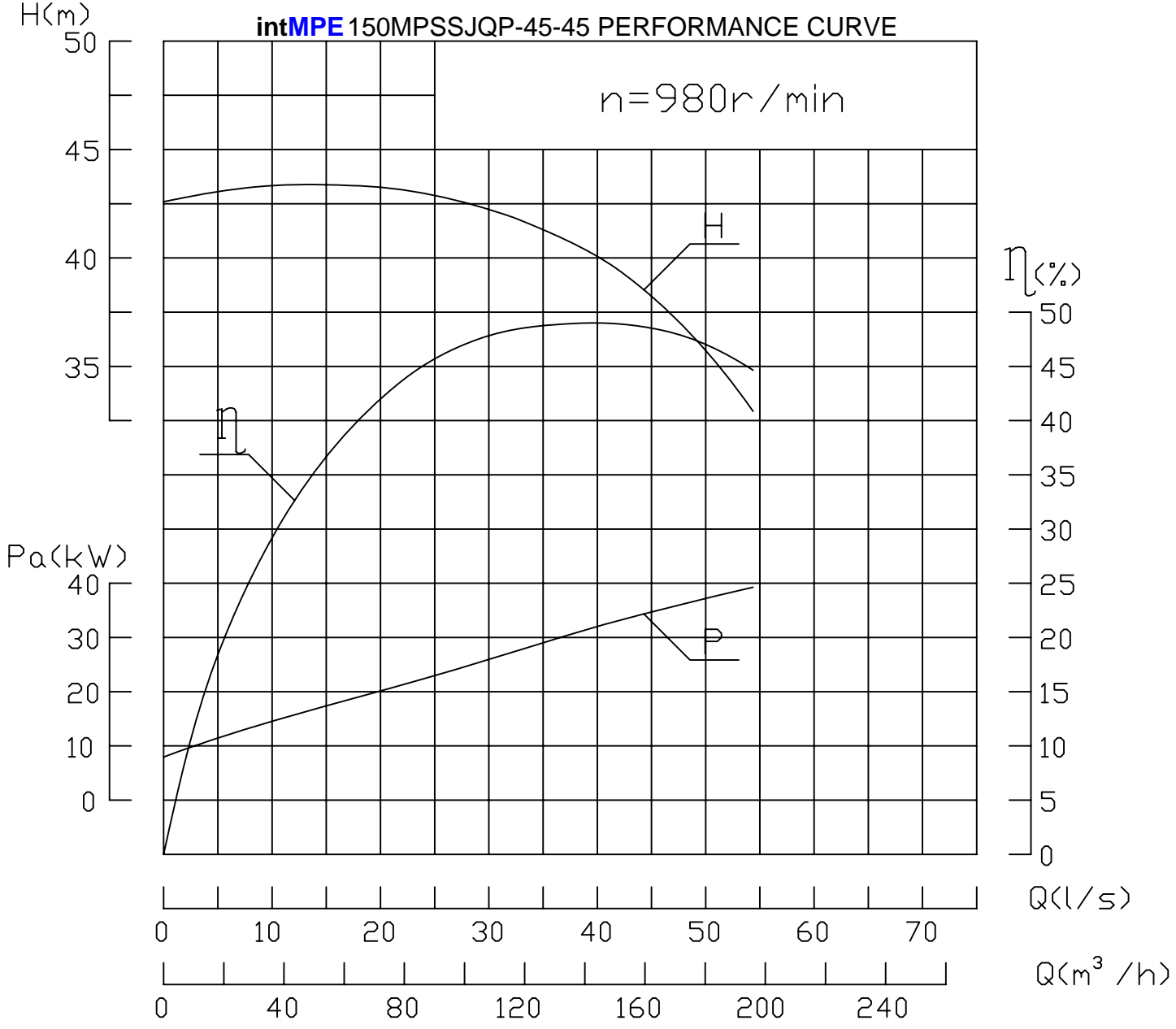
intMPE Performance curve for 150MPSSJQP-11.5-15KW



intMPE

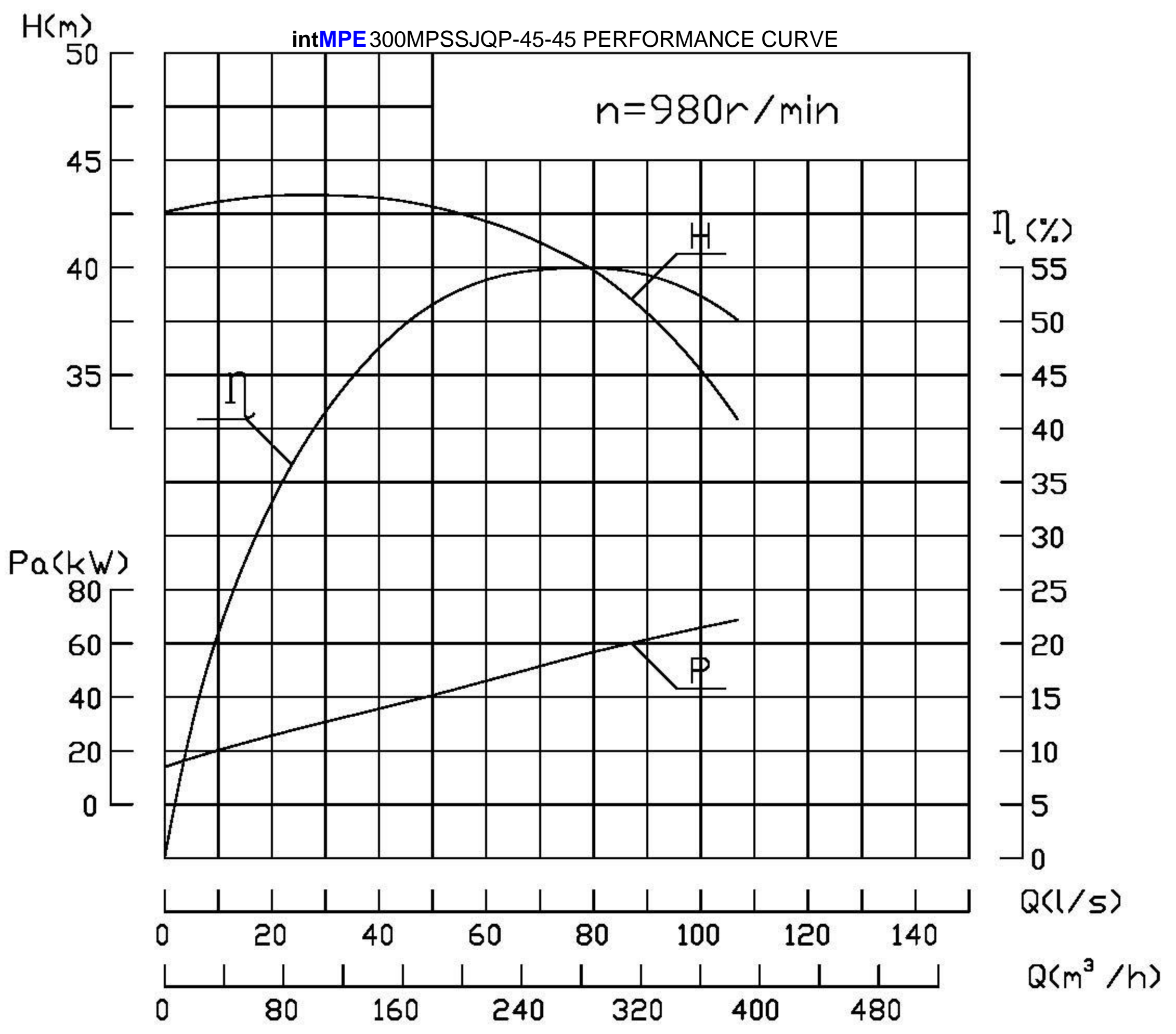
intMPE 150MPSSJQP-45-45 PERFORMANCE CURVE

$n=980\text{r/min}$



intMPE300MPSSJQP-45-45 PERFORMANCE CURVE

n=980r/min



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The technical data for MPSSJQP150-11.5-15

PUMP

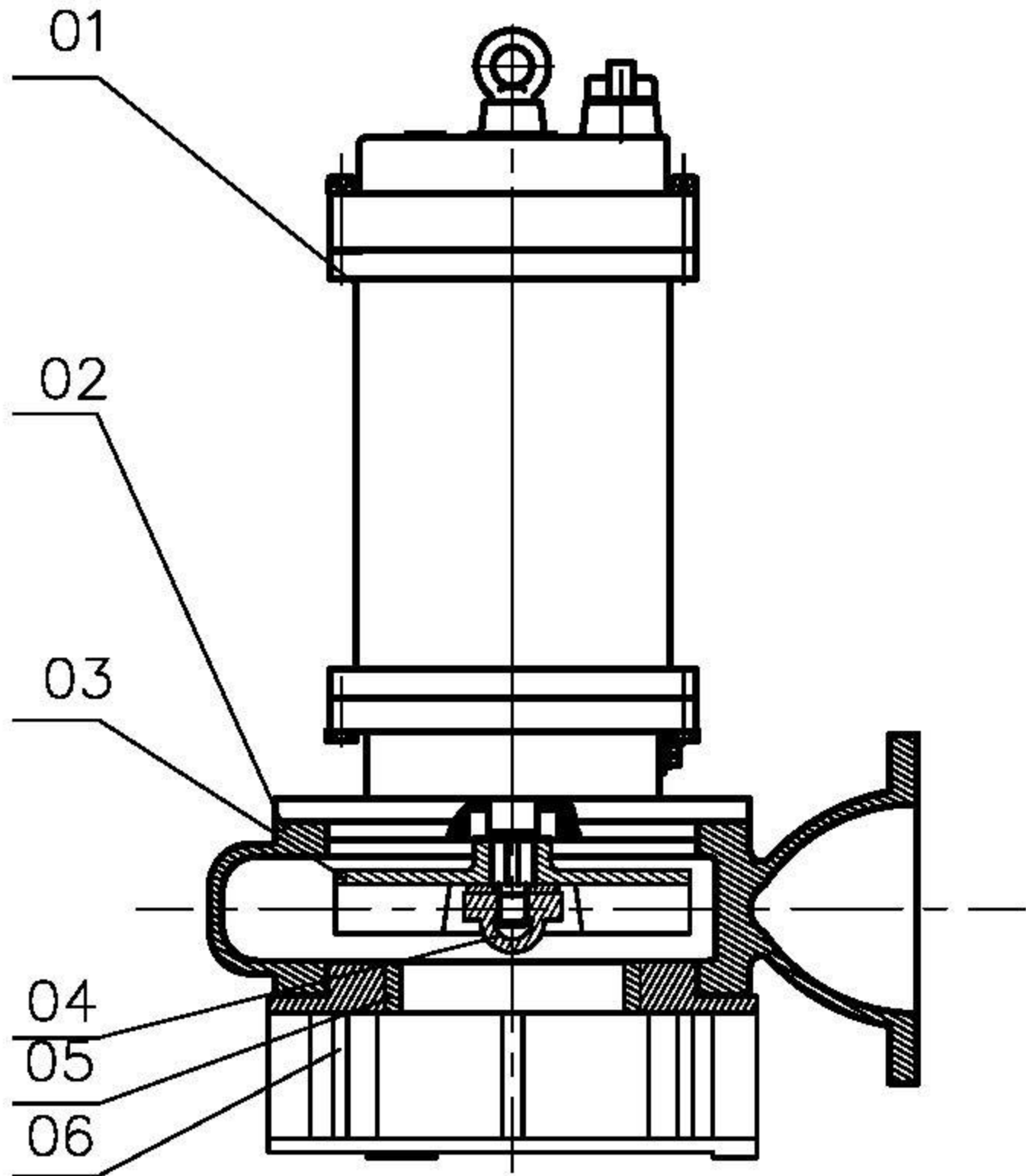
Make's name	MPSSJQP
Type of pump set	JQ150-11.5-15
Rating	150m ³ /h @ 11.5 meters head
Eff. at rated point	70%
Discharge of pump casing(mm)	150
Speed	875rpm
Material, Impeller	ASTM A532 (KmtBCr26)
Material, Shaft	420SS
Material, Agitator(mixer)	ASTM A532 (KmtBCr26)
Material, Motor Casing	Ductile iron
Number of bearings	3
Type of bearing	Anti Friction Bearing , Greased
Type of seal	Burgmann Mechanical seal

MOTOR

Make's name	intMPE
Rated output (50 cycles)	15kW, 3 phase, 8 Pole
Insulation degree	Class F,
Degree of protection	IP68
Type and method of starting	Star-delta
current at rated point	35.5A
Eff.at rated point	85%
Cos• .at rated point	0.83
current at full load	30 A
Eff. at full load	87%
Cos• . at full load	0.85



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06		Pump base	1	Ductile iron			
05		Wear ring	1	KmTBCr26			ASTM A532
04		Impeller nut	1	KmTBCr26			ASTM A532
03		Impeller	1	KmTBCr26			ASTM A532
02		Pump casing	1	KmTBCr26			ASTM A532
01		Motor assembly	1				

Tracer	Item	Code nubmer	Part name	Qty.	Material	U.W.	T.W.	Note
						Weight		
tracing checked by								
Old base map nubmer								
	Sign	No.	Order Number	Signature	Date			
Base map nubmer	Designed by		Standardization					
	Proofed by							
	Checked by		Approved by					
	Technic		Date					

MPSSJQP
SERIES

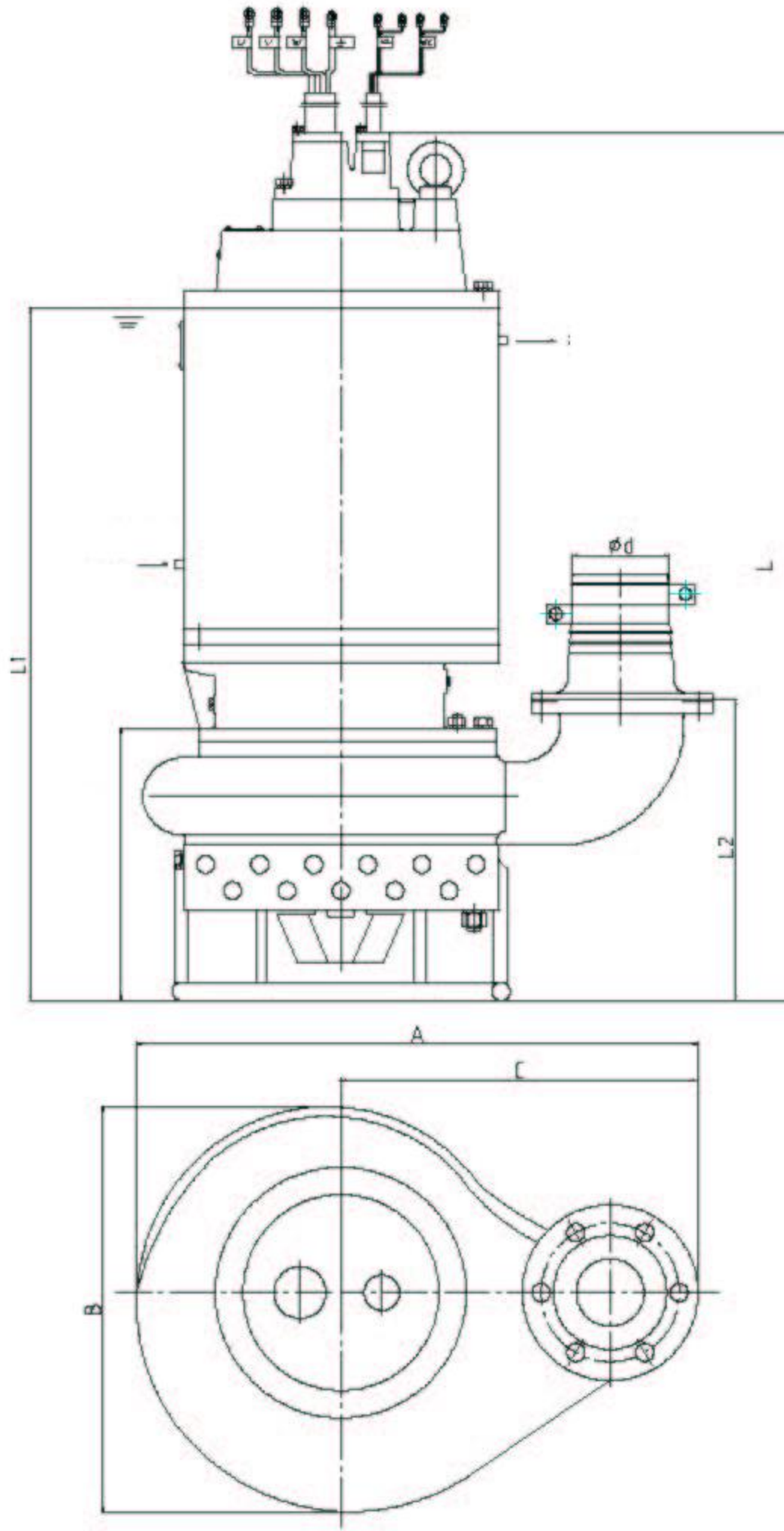
PART LIST

Mark	Version	Weight	
S			
Total pages	No.	Page	

intMPE

PART LIST FOR 150MPSSQWP-11.5-15KW

No.	Part name	Quantity	Material
1	Base	1	Steel
2	Hub	1	KmTBCr26
3	Screw	4	S.S.
4	Spring washer	4	S.S.
5	Fixed plate	1	S.S.
6	Double end Bolt M12 35	6	S.S.
7	Nut M12	14	S.S.
8	Spring washer 12	15	S.S.
9	Adjusting washer	Enough	Brass sheet
10	Key	1	S.S.
11	Bolt M20 80	8	S.S.
12	Nut M20	8	S.S.
13	Spring washer	8	S.S.
14	Flange rubber gasket	1	Butyl cyanide Rubber
15	Outlet flange	1	Carbon steel
16	Outlet protection cover	1	Polyethylene
17	Joint for rubber pipe	1	Cast iron ASTM 30#
18	Bolt M12 50	2	S.S.
19	Pipe clip	1	S.S.
20	Motor house	1	Cast iron ASTM 30#
21	Rivet 2 6	4	S.S.
22	Name plate	4	S.S.
23	Double end bolt M12 50	6	S.S.
24	Bolt M16 50	12	S.S.
25	Spring washer	20	S.S.
26	Upper cover for pump body	1	KmTBCr26
27	Impeller	1	KmTBCr26
28	Pump body	1	KmTBCr26
29	O ring 440 5.3	1	Butyl cyanide Rubber
30	Suction plate	1	KmTBCr26
31	Inlet stand	1	Cast iron ASTM 30#
32	Bolt M16 35	8	S.S.
33	Rubber ring pressure plate	1	Carbon steel
34	Sand-suction plate	1	Carbon steel
35	Rubber ring	1	Butyl cyanide Rubber
36	Stretching screw	1	S.S.
37	Agitator	1	KmTBCr26
38	Cup nut	1	S.S.
39	Rotor shaft	1	S.S. 420



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intMPE Agitator Option

MPP pumps are designed to enable the use of an optional agitator. With slight modification, the agitator is adapted to the suction of the pump by use of an extension shaft.

The MPP agitator option was specifically designed to loosen/breakup solids that would normally clog the slurry flow in the suction passage. It prevents the very situation in which conventional pumps fail. The rotating cutter blades of the built-in agitator will move - from rest, material up to 60% solids by weight into the impeller and through the pump. The combination of the agitator, the closed impeller with large* open passages, the replaceable front and back wear plates (all in 28% or 36% hardened high chrome iron), the heavy duty shaft/bearing configuration result in the most rugged slurry pump available in the world market.

* See pump curve for maximum particle size for each impeller opening size.

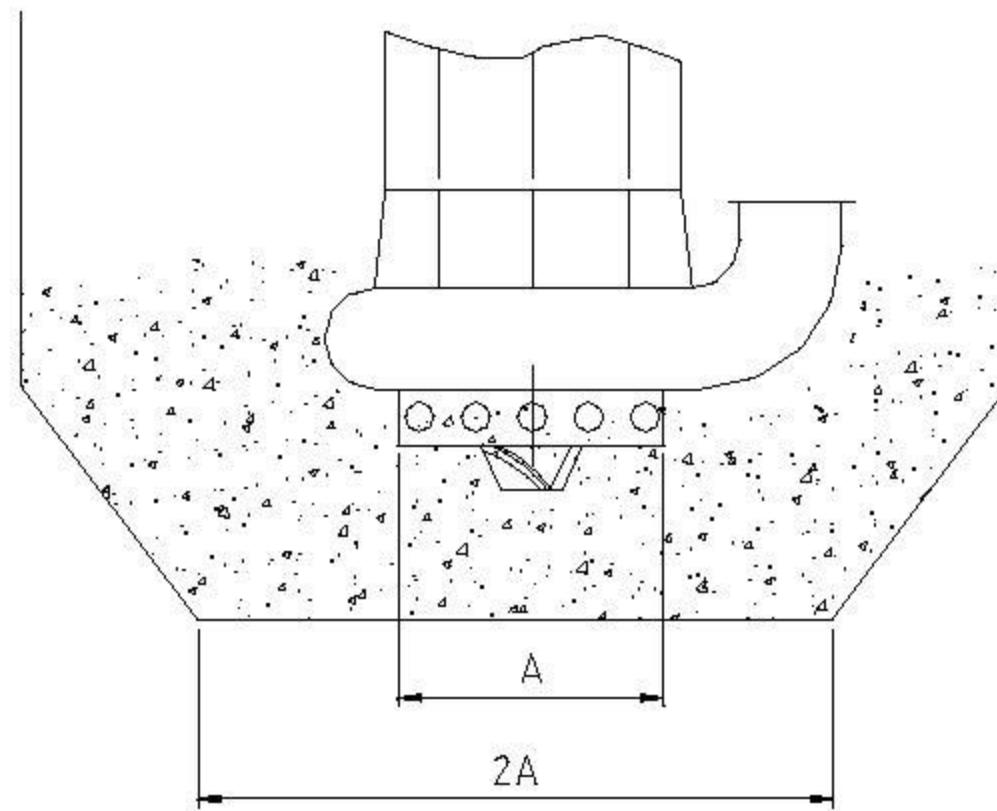
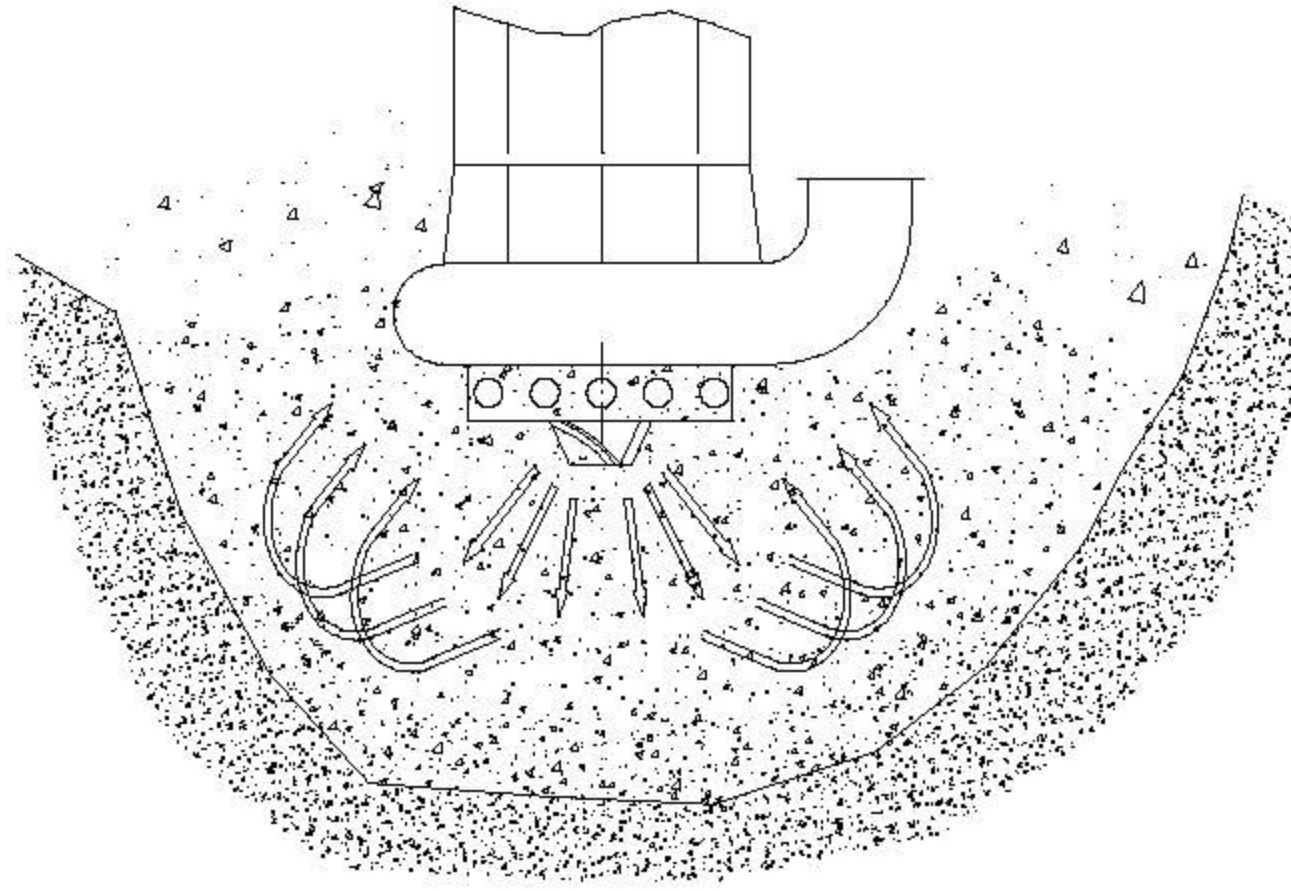
BENEFITS!



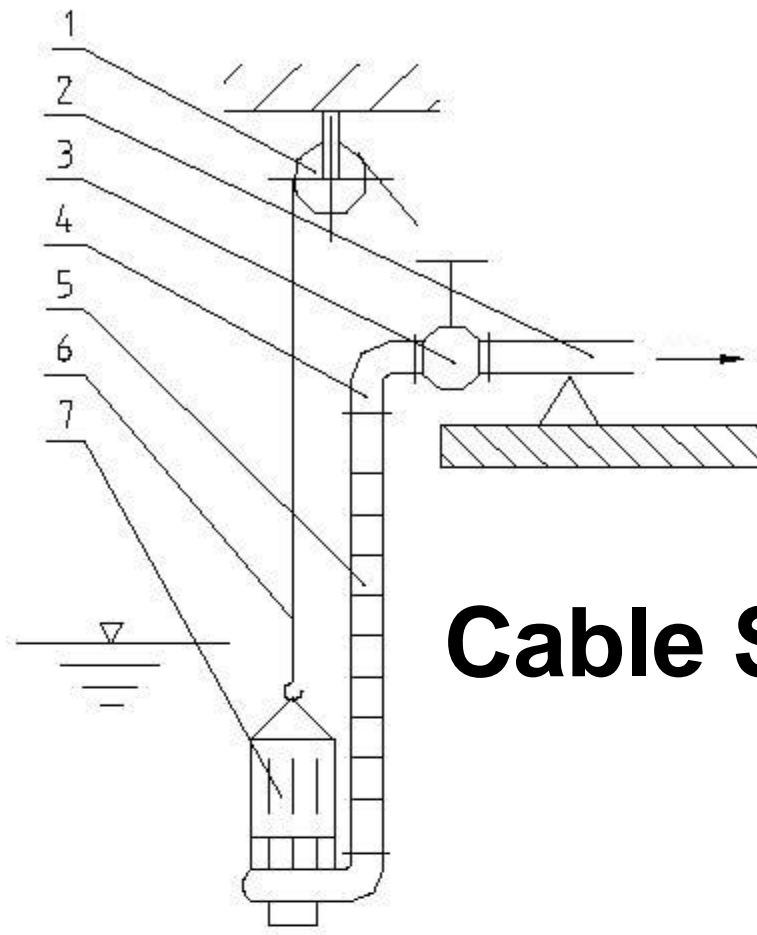
Cross Section Agitator

- * Eliminates downtime due to solids build up that choke off the suction of conventional pumps.
- * Promotes pumping of high concentrations of solids.

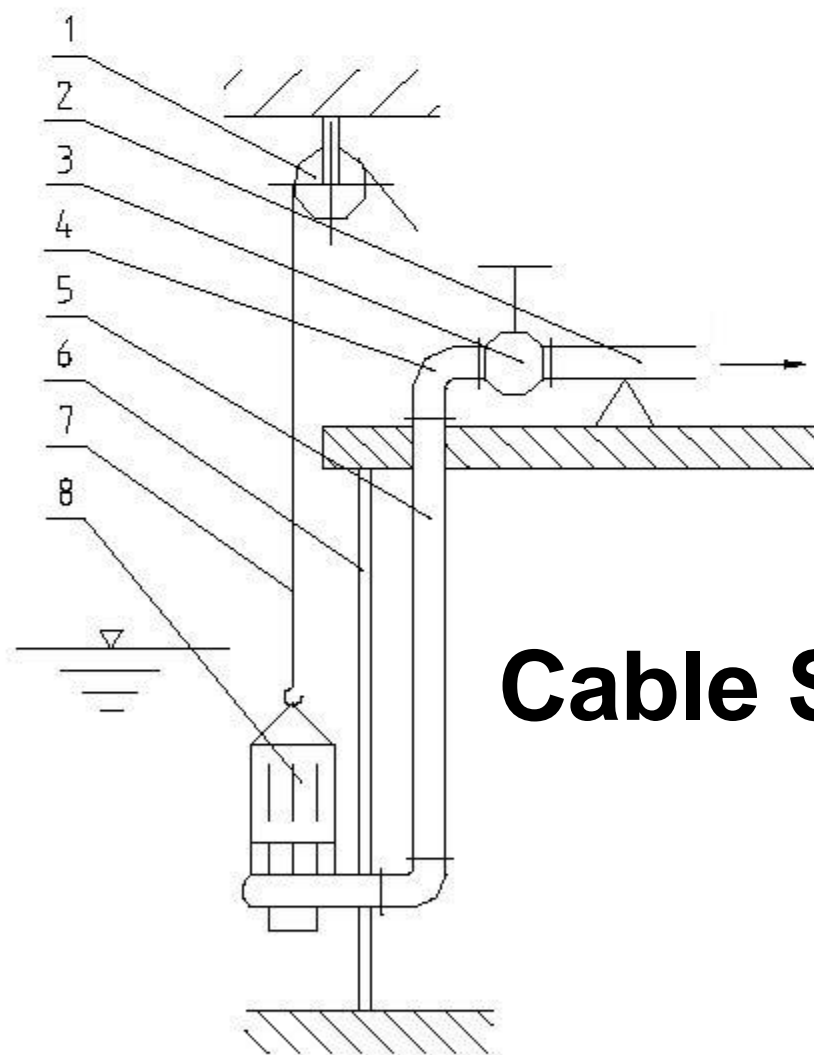
Agitator Action



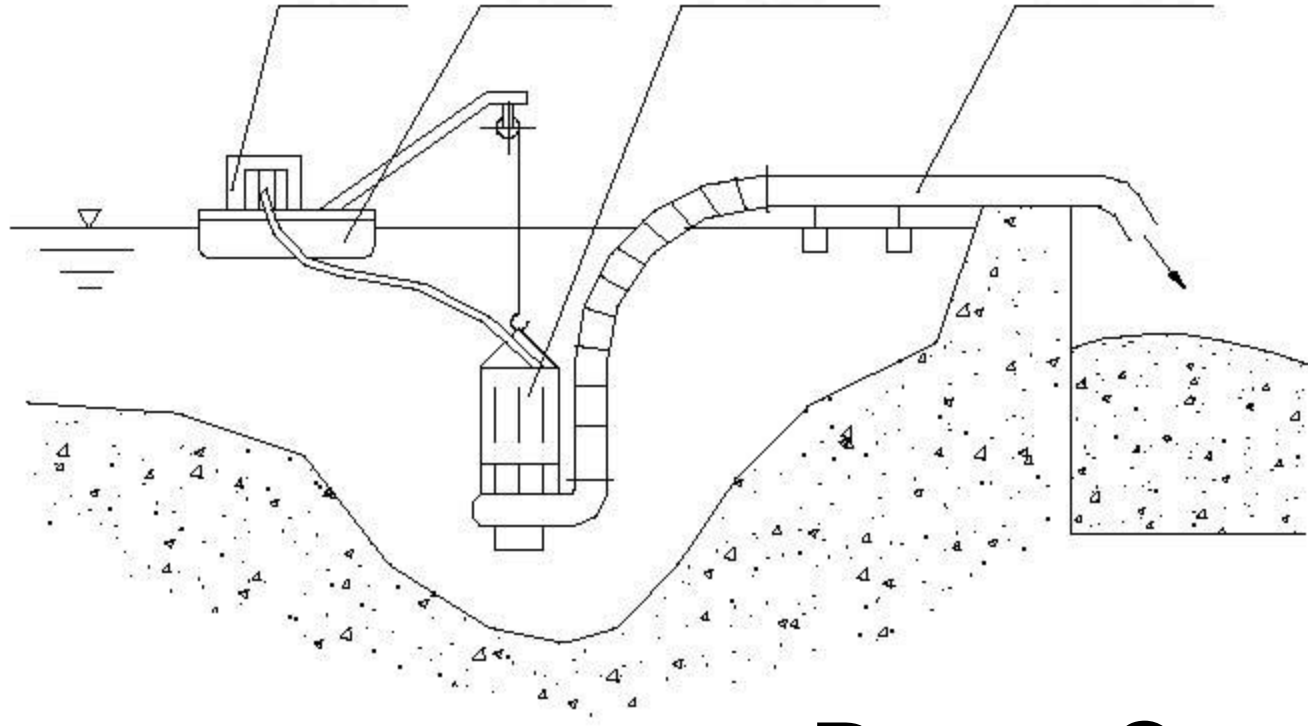
intMPE



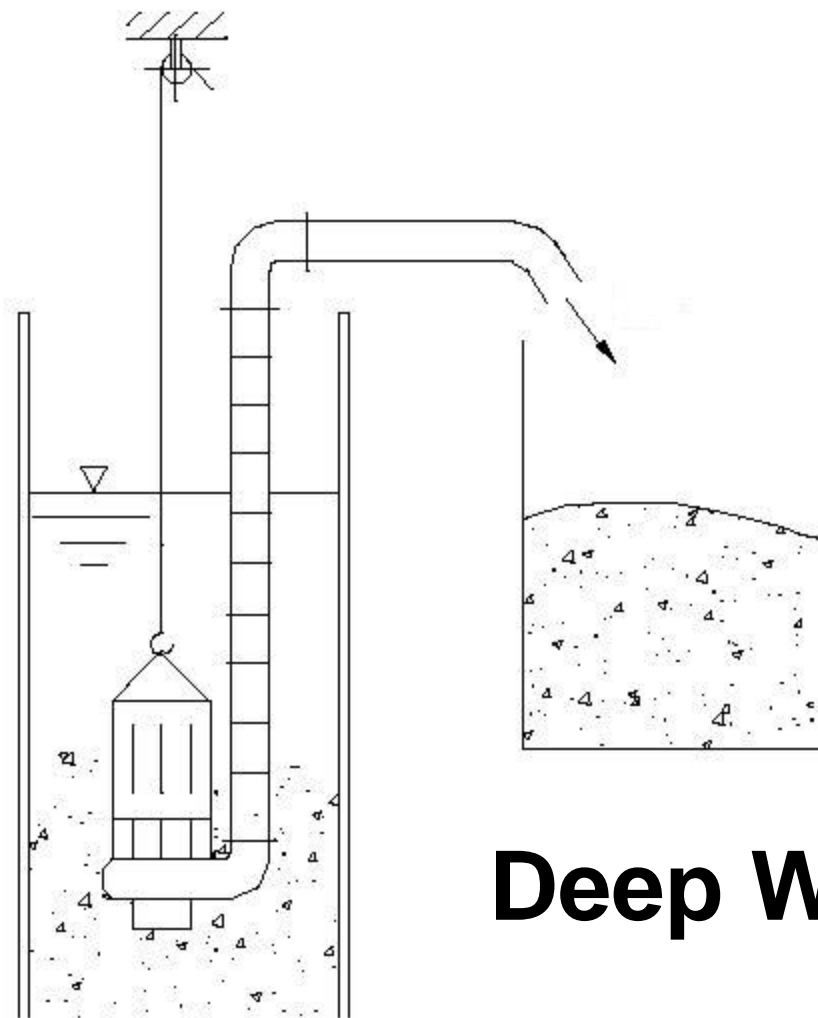
Cable Support Only



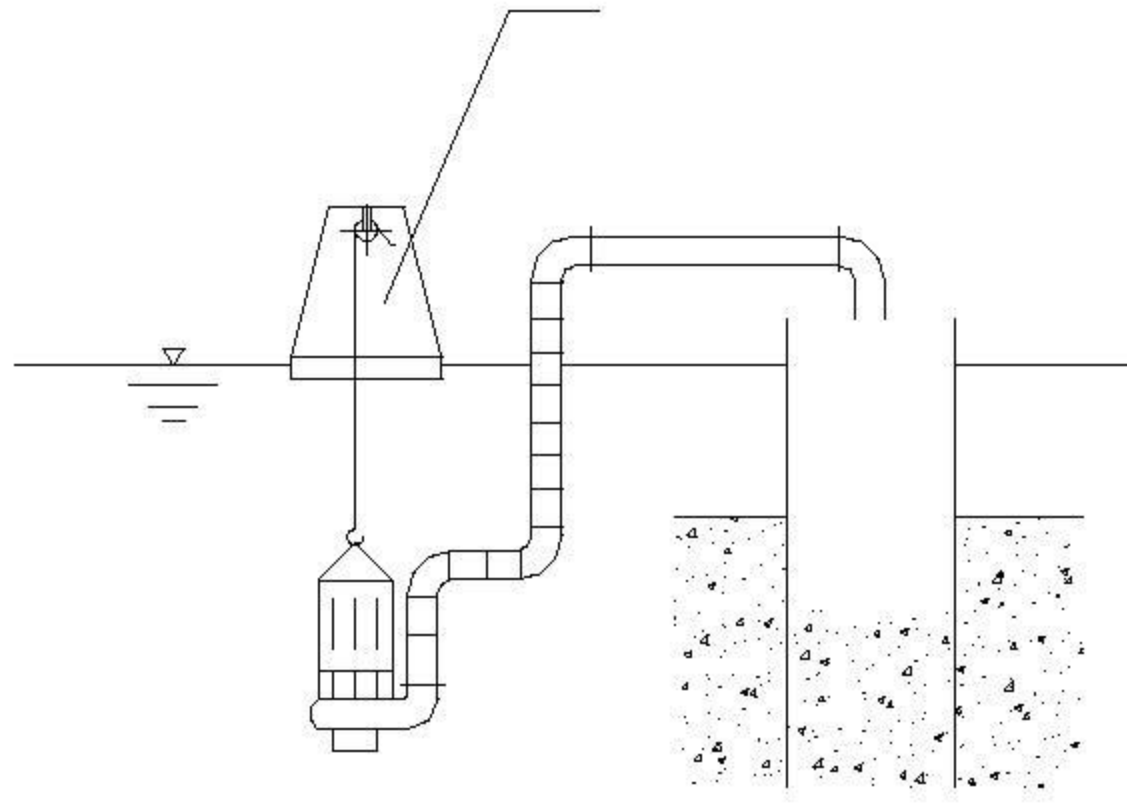
Cable Support & Guide



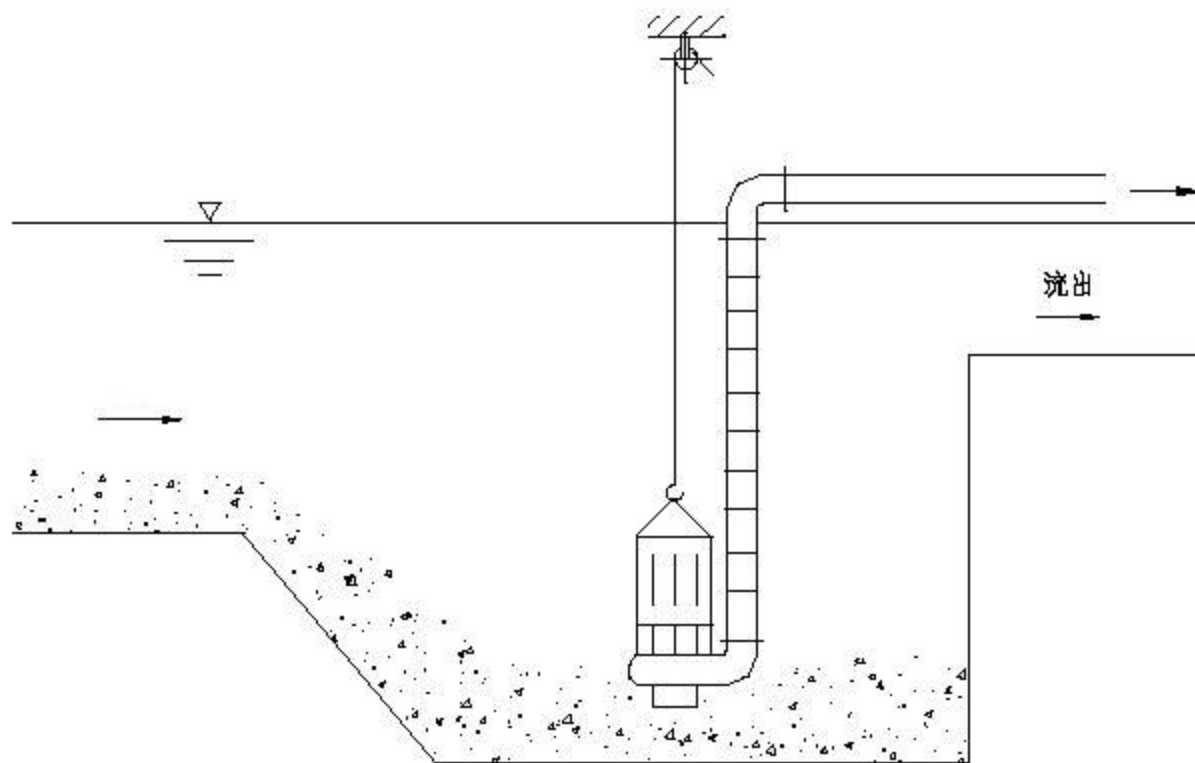
Barge Crane



Deep Well & Cable



Pontoon Cable Hung



Overhead Cable Hung

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intMPE Submersibles