CENTRIFUGAL PUMP

TVC Series Vertical Tank mounted Centrifugal Pump

ISO9001 Supplier

Class Certificate

Export Supply

TVC Series Vertical Tank mounted Centrifugal Pump General TVC types have been designed as piston cooing and LO pump for B&W engine.The motor bed is mounted on the top of LO tanks and the pump is suspend...



Key Highlights

Category	Centrifugal Pump
Standard	DIN
Material	Casing: cast iron Impeller: Phosphor bronze Shaft: Carbon steel Sleeve: ...
Weight / Size	1.Suction side needs no suction pipe,valve and strainer so weight,instal...
Certificate	CCS，Rina，ABS, BV, GL,

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

Technical Specifications

Category	Centrifugal Pump	**Model / SKU**	TVC-Series-Vertical-Tank-mounted-Centrifugal-Pump
Standard	DIN	**Material**	Casing: cast iron Impeller: Phosphor bronze Shaft: Carbon steel Sleeve: Stainless steel.
Weight / Size	1.Suction side needs no suction pipe,valve and strainer so weight,installation space and price can be reduced.	**Certificate**	CCS，Rina，ABS, BV, GL,
Warranty	12 Months unless specified otherwise	**Origin**	China

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TVC Series Vertical Tank mounted Centrifugal Pump

General

TVC types have been designed as piston cooing and LO pump for B&W engine.The motor bed is mounted on the top of LO tanks and the pump is suspended to the bed by discharge pipe.They are used in the submerged state below the oil level of the LO tank.

Compared with gear or screw pump used in general for LO these pumps have the following features giving much benefit to the user.

1.Suction side needs no suction pipe,valve and strainer so weight,installation space and price can be reduced.

2.Since the pump is submerged in oil, no priming is needed at starting.

3.The control of capacity and head is very easy.

4.The casing is of special consideration is given so that radial thrust on the impeller becomes minimum.

5.The impeller is of single suction and in order to improve suction performance francis vanes are adopted. For large sized pumps, thrust load acting on the upper ball bearing is reduced by changing the upper and lower diameters of impeller mouth soas to turn fliud thrust upward. Moreover, by providing balance holes at the impeller inlet, downward thrust is reduced and at the same time air olck is prevented.

6.Because of high LO viscosity at cold startup, capacity decreases and at the same time shaft horsepower increase. Accordingly,Motor output is determined by multiplying normal shaft horsepower by correction facter so that the motor is not overloaded at cold startup.

7.For the line bearing material, HLBC is adopted

CONSTRUCTION

- TVC type is vertical tank-mounted pump.
- The pump is connected with motor by flecible coupling.
- By bearing lubricated lubricate oil.

Material

- Casing: cast iron
- Impeller: Phosphor bronze
- Shaft: Carbon steel
- Sleeve: Stainless steel.

Model explanation

TVC200D6-90

TVC-Series type

200-bor(mm)

D6-size

90-Motor power(Kw)

Performance data

50Hz

Type		Capacity(m3/h)	Discharging pressure(Mpa)	Speed(RPM)	Outlet diam(mm)	Motor type	Power
TVC-200E5	55	190	0.5	1480	150	YH250M-4V1	55
	45	178	0.45	1480		YH250M-4V1	45
	37	166	0.4	1480		YH225S-4V1	37
TVC-250D5	90	330	0.45	1480	200	YH280M-4V1	90
	75	310	0.4	1480		YH280S-4V1	75
	55	285	0.35	1480		YH250M-4V1	55
TVC-300D5	132	500	0.45	1480	250	YH315M-4V1	132
	110	465	0.4	1480		YH315S-4V1	110
	90	435	0.35	1480		YH280M-4V1	90
TVC-350D5	200	750	0.4	1480	300	YH315SL2-4V1	200
	132	700	0.35	1480		YH315M-4V1	132
	110	645	0.3	1480		YH315S-4V1	110
TVC-400D5	220	1000	0.4	1480	350	YH355M1-4V1	220
	200	935	0.35	1480		YH315L2-4V1	200
	160	865	0.3	1480		YH315L1-4V1	160

60Hz

Type		Capacity(m3/h)	Discharging pressure(Mpa)	Speed(RPM)	Outlet diam(mm)	Motor type	Kw
TVC-200E6	75	205	0.55	1780	150	YH280S-4V1	75
	55	193	0.5	1780		YH250M-4V1	55
	45	182	0.45	1780		YH225M-4V1	45
	37	170	0.4	1780		YH225S-4V1	37

TVC-250D6	90	330	0.45	1780	200	YH280M-4V1	90
	75	310	0.4	1780		YH280S-4V1	75
	55	285	0.35	1780		YH250M-4V1	55
TVC-300D6	132	500	0.45	1780	250	YH315M-4V1	132
	110	465	0.4	1780		YH315S-4V1	110
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