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ZV(R) Series Vertical Sump and Slurry Pump



The **Heavy Duty Pump ZV(R)** is designed for applications requiring high reliability and durability. The bearing assembly allows **heavy duty cast iron submersible pumps** to operate under "squeaky" conditions without damaging the bearings, and is designed to treat abrasive slurries and corrosive fluids by using wet end parts of elastomer or metal linings. **Wear-resistant pumps** are suitable for mining, chemical processing, wastewater treatment, gravel and general process applications.

Wear Resistant Sump Pump Range:

Parameter

Caliber	40-250mm
Maximum flow quantity	1089m ³ /h
Maximum head	38m
Speed	400-2200r/min
Power	15-200kw

1. The ZV(R) series **vertical metal sump pumps** are typically immersed in water at the bottom of the tank for conveying highly abrasive, coarse particles of highly viscous slurry.
2. One of the main features of this **vertical metal sump pump** is the integral pump casing. The wet end is replaceable and made of high chrome for maximum corrosion resistance. **Vertical metal sump pumps** are available for different pumping applications.
3. Various types of impellers are designed to handle different pumping tasks.
4. The vertical cantilever design eliminates the need for shaft seals or seal water.
5. The parts immersed in the mud can be made of metal or rubber.

Heavy Duty Sump Pump Advantages

1. The physical layout of the submersible **Heavy Duty Sump Pump** simplifies maintenance operations.
2. The **Heavy Duty Sump Pump** body is bolted to the support plate. A bearing assembly is mounted on the top of the support plate. Close to the pump end is a double row tapered roller bearing. Connected to the drive end is a single row cylindrical roller bearing.
3. Mounted on the bearing assembly is a motor support or motor mount where the motor is mounted. A flexible coupling or drive belt connects the motor shaft to the pump shaft.
4. In the absence of shaft seals or sealed water, the **Heavy Duty Sump Pump** can operate normally even if there is not enough mud to reach the suction side.

5. A screen filter is provided on the suction side to separate large particles from the slurry.

Hydraulic

The open impeller is designed with blades on both sides to balance the centrifugal force and ensure stable operation. The wide flow path allows large particles and high viscosity slurries to pass.

Transmission

Grease bearing assembly: Double row tapered roller bearings are closer to the pump shaft end, while single row cylindrical roller bearings are closer to the drive.

Modeling

Model	Maximum motor power (KW)	Material		Clear water performance				
		Liner	Impeller	Flow quantity Q		Head H	Speed n	Efficiency Eff
				(m³/h)	(l/s)			
40R-ZV	15	M	M	19.44~43.2	5.4~12	3.5~28	1000~2200	38
40R-ZVR		RU	RU	17.28~39.6	4.8~11	3~24.5	1000~2200	40
65Q-ZV	30	M	M	23.4~87.12	6.75~24.2	5.5~31.5	700~1500	51
65Q-ZVR		RU	RU	22.5~105	6.25~29.15	5.5~27	700~1500	51
100R-ZV	75	M	M	54~289	15~80.3	5~37	500~1200	56
100R-ZVR		RU	RU	64.8~285	18~79.2	7.5~38	600~1200	62
150S-ZV	110	M	M	108~479.16	30~133.1	8.5~37	500~1000	55
150S-ZVR		RU	RU	108~479.16	30~133.1	8.5~35.5	500~1000	56
200S-ZV		M	M	189~891	52.5~247.5	6.5~37	400~850	64
250T-ZV	200	M	M	261~1089	72.5~302.5	7.5~33.5	400~750	60

Model	A	B	C	D	E	F	G	H	J	K	OL	M	N	P	Q	R	Weight (Kg)	Min.size of slurry pool				
													Max.size					S	T	øV	øX	Volume (m3)
40P-ZV	137	286	154	900*1200	380	500	500	450	450	205	127	174	733	675	248	629	285	280	695	550	1000	0.34
40P-ZVR	140	265	175		380												250					
65Q-ZV	227	399	231	900/ 1200* 1500	492	680	680	620	620	285	178	265	898	794	290	681	432	350	925	800	1400	0.9
65Q-ZVR	230	380	260		498												386					
100R-ZV	260	515	317	1200 /1500*1800	662	1000	870	800	930	400	229	393	1141	1020	416	960	867	350	1225	1000	1750	1.86
100R-ZVR	266	535	332		668												772					
150S-ZV	390	640	375	1500 /1800*2100	875	1100	1100	1030	1030	500	280	475	1311	1200	476	1011	1737	350	1525	1250	2150	3.54
150S-ZVR	395	674	400		883												1520					
200S-ZV	450	772	440	1500 /1800*2100	878	1300	1200	1100	1200	600	343	550	1313	1300	476	1011	3087	350	1525	1500	2400	4.76
250T-ZV	500	903	470	1800 /2100*2400	1000	1750	1450	1350	1650	700	406	685	1572	1750	561	1246	4086	400	1775	1700	2700	6.68

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