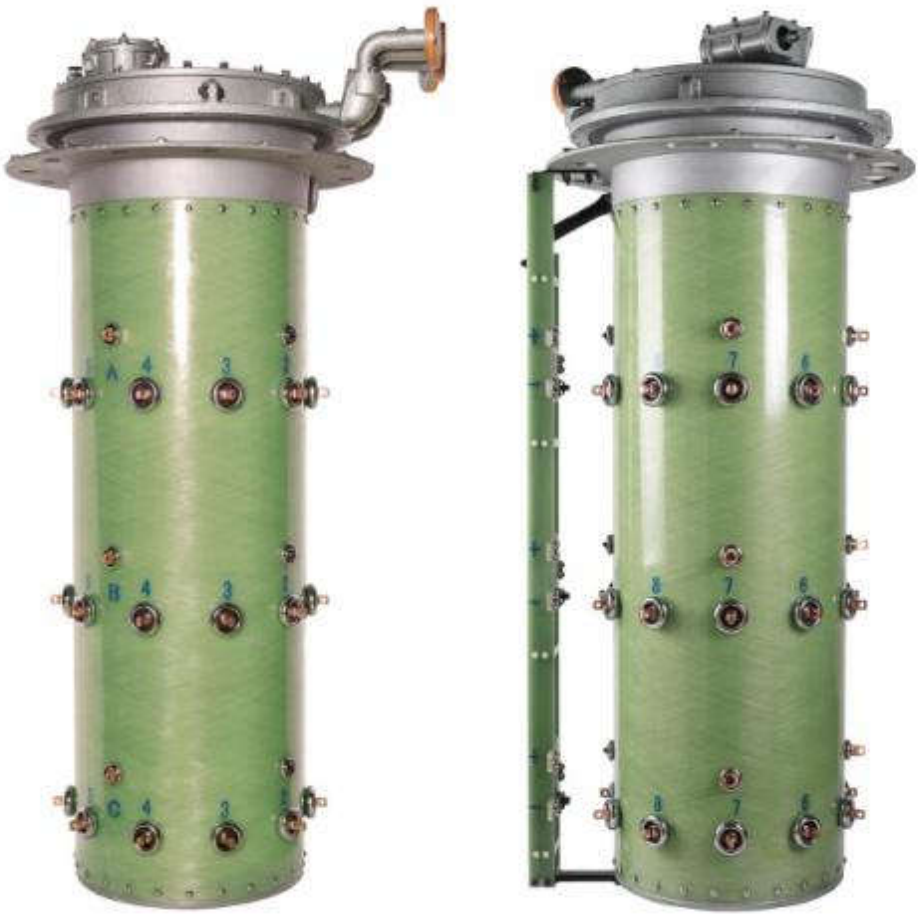
ZVV VACUUM ON LOAD TAP CHANGER



◎ Product Introduction

ZVV vacuum on-load tap-changer is a composite on-load tap-changer developed by vacuum arc extinguishing technology. The vacuum interrupter is used to replace the traditional copper-tungsten contacts to break the current. Since the arc extinguishing is completed in the vacuum arc extinguishing chamber, there is no direct contact between the arc and the transformer oil, and the transformer oil does not produce carbonization and solid particles in the on-load tap changer, which reduces the operating cost of the switch and prolongs the maintenance period of the switch.

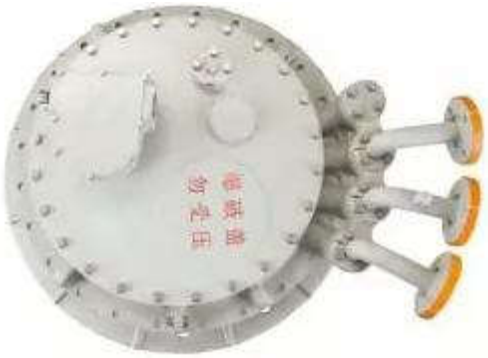
The ZVV vacuum on-load tap changer is suitable for the highest working voltage 40.5kV, 72.5kV; the maximum rated through current 350A, 500A; the rated frequency of 50Hz or 60Hz power transformers can be achieved by changing the tap position of the transformer voltage regulating winding under load Purpose of pressure regulation.

◎ Model Description

ZVV III 500 Y - 72.5 - 10193W

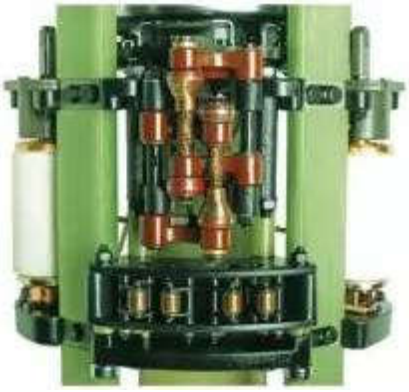
- Basic wiring diagram
- OLTC Max.working voltage(kV)
- OLTC Connection method (Y/D)
- OLTC Max.rated through current(A)
- OLTC Phase (I,III)
- OLTC Model

◎ Product features



The flange mounting dimensions are the same as the V type, with simple structure and small space occupation.

The static contact of the oil chamber adopts the contact structure with national patent protection, and sealing performance is reliable.



The rolling multi-point contact method is adopted below the moving contact, with small contact resistance, low temperature rise, and stable and reliable current carrying.

Adopting a mature energy storage transmission mechanism to ensure reliable operation of the mechanism.

◎ ZVV Technical Data

Item	Specifications		III350Y	III350D	I350	III500Y	III500D	I500
1	Max.rated through current (A)		350	350	350	500	500	500
2	Rated frequency (Hz)		50 or 60					
3	Phase & connection method		Neutral point	Arbitrary connection		Neutral point	Arbitrary connection	
4	Max.rated step voltage (V)	10 contacts	2000			1500		
		12 contacts	2000			1400		
5	Rated step capacity(kVA)	10 contacts	700			750		
		12 contacts	700			700		
6	Withstand short circuit capacity (kA)	Thermal (3s)	5.0			7.0		
		Dynamic (peak)	12.5			17.5		
7	Working positions		Linear regulating: 5,6,7,8,9,10,11,12 Reversing regulating: ±3~±11					
8	Insulation level of tap changer (kV)	Max. service voltage	40.5			72.5		
		Power frequency withstand voltage (50Hz, 1min)	85			140		
		Rated lightning impulse withstand voltage (1.2/50μs)	200			350		
9	Mechanical life		≥1500000 times					
10	Electrical life		≥350000 times					
11	Diverter switch Oil chamber	Work pressure	3×10^4Pa					
		Sealing performance	No leakage under 6×10^4Pa for 24 hours					
		Overpressure protection	Blasting cap blast at (4～5) $\times10^5$Pa					
		Protection relay	QJ4-25 oil flow speed set at 1.0m/s±10%					
12	Oil displacement (L)		About 260~380					
13	Oil filling capacity (L)		About 245~300					
14	Weight (KG)		About 280~340					
15	With motor driver mechanism		ZD/MAE					