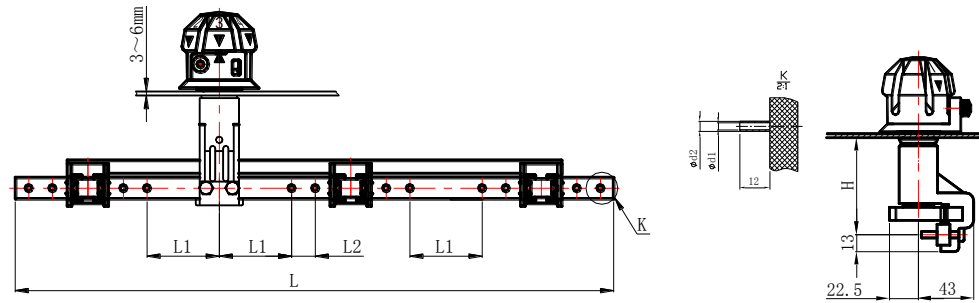


7.1 WST2 系列中部调压分接开关 WST2 Series of Central Voltage-regulation Tapping Switch



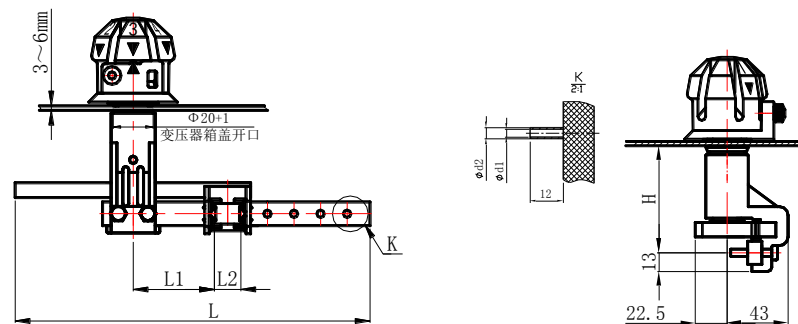
WST2-Series of off-load Strip Tapping Switches

开关型号 Type of tap changer	调压部位 Regulating position	安装尺寸 mm Installation dimension mm						箱盖开孔 Open hole Of box-cover	
		L	L1	L2	H	Φd1	Φd2		
WST II 2 10 / 10~22-4×3 SF	中部 Central	347	55	18	50、70、100、130、150	2.1	4	Φ 20+1	
WST II 2 10 / 10~22-6×5 SF		455				3.1	5		
WST II 2 10 / 10~22-8×7 SF		563				5.1	7		
WST II 2 30 / 10~22-4×3 SF		347				2.1	4		
WST II 2 30 / 10~22-6×5 SF		455				3.1	5		
WST II 2 30 / 10~22-8×7 SF		563				5.1	7		
WST II 2 63 / 10~22-4×3 SF		347	80	18		2.1	4		
WST II 2 63 / 10~22-6×5 SF		455				3.1	5		
WST II 2 63 / 10~22-8×7 SF		563				5.1	7		
WST II 2 10 / 30~33-4×3 SF		422				2.1	4		
WST II 2 10 / 30~33-6×5 SF		530				3.1	5		
WST II 2 30 / 30~33-4×3 SF		422				5.1	7		
WST II 2 30 / 30~33-6×5 SF		530							
WST II 2 63 / 30~33-4×3 SF		422							
WST II 2 63 / 30~33-6×5 SF		530							

使用说明书
Operation Instruction

厂家提醒您仔细阅读
Which manufacturer reminds
you to read carefully

7.2 WDT2 系列中部调压分接开关 WDT2 Series of Central Voltage-regulation Tapping Switch



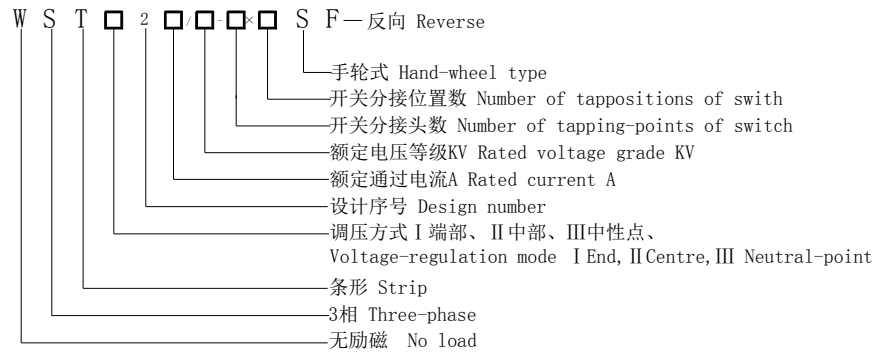
开关型号 Type of tap change	额定电流 A Rated current	额定电压 KV Rated Voltage	安装尺寸 Install dimension (mm)						箱盖开孔 Holes on tank cover (mm)
			H	L	L1	L2	φd1	φd2	
WDT II 2 30 / 10~22-4×3SF	30	10~22	50、70、100、130、150、200	178	55	18	3.1	5	Φ 20+1
WDT II 2 30 / 10~22-6×5SF				250					
WDT II 2 30 / 30~33-4×3SF				203	80				
WDT II 2 30 / 30~33-6×5SF				275					
WDT II 2 63 / 10~22-4×3SF	63	10~22		178	55		5.1	7	
WDT II 2 63 / 10~22-6×5SF				250					
WDT II 2 63 / 30~33-4×3SF				203	80				
WDT II 2 63 / 30~33-6×5SF				275					

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1. 产品用途及使用范围 Application and Service Range of Product

本系列分接开关适用于频率 50Hz, 额定电压等级为 10KV~33KV, 额定通过电流 10A~63A 的油浸式电力变压器中。当需要调整电压时, 必须将变压器从网络上切除。使变压器在无励磁的情况下改变变压器初级线圈匝数, 以实现变压器电压调整的目的。达到调整次级输出电压的目的。

This series of tapping switches are suitable for the oil immersed transformer with frequency 50HZ, rated voltage 10KV~30KV, rated current 10A~63A. When needing to regulate voltage, must have the transformer cut off from coil of transformer, be changed under no-load condition so as to realize the purpose to regulate the voltage of the transformer; and reach the purpose to regulate the secondary-grade output voltage.



TH 为湿热带使用 TH is used in wet tropical zone

2. 使用注意事项 Points for attention:

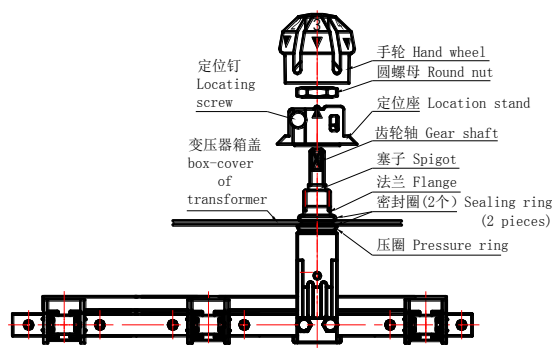
- 1 使用环境温度: 空气中-25℃~40℃, 油中-25℃~100℃;
- 2 安装场所应无爆炸和腐蚀性气体;
- 2.3 分接开关组装前, 一定要检查分接开关是否符合变压器型号要求, 以免造成不应有的损失;
- 2.4 变压器分接引线与分接开关接线端子连接时, 应消除引线拉力, 不得使分接开关受力变形, 且引线及运动部件留有足够的运行间隙, 以免运动阻滞;
- 2.5 分接开关最高干燥温度为 100±5℃, 如干燥温度过高请于我公司技术部联系。干燥后, 档位转动过紧或过松时, 请将转轴上的塞子调节到适当松紧即可;
- 2.6 干燥后如变压器沿转轴渗油, 请将塞子旋紧即可, 如沿箱盖渗油, 请将圆螺母旋紧即可;
- 2.7 当开关在极限档位时, 严禁向极限方向用力转动手轮;
- 2.8 干燥处理后, 使用分接开关前必须对分接开关的各个固定和移动触点认真进行变压器油润滑。并紧固各紧固件, 防止松动。
- 2.1 Ambient temperature for using: in air -25℃~40℃, in oil -25℃~100℃;
- 2.2 There should be no explosive or corrosive gas in the installation place.
- 2.3 Before assembling the tapping switch, must check up whether the tapping switch conforms to the type specification of the transformer in order to avoid causing the loss that should not occur.
- 2.4 When connecting the tap leading wire of the transformer with the connection terminal of the tap switch, shall eliminate the leading wire tension, the tap switch shall not be deformed because of stressing, and the leading wire and the moving part should have enough moving space so as to avoid movement hindered.
- 2.5 The maximum drying temperature of this switch is 100±5℃. If the drying temperature is too high, please contact the Technical Department of our company. If after drying, the grade position of the switch turns too tightly or too loosely, please regulate the spigot on the shaft to the suitable degree of tightness.
- 2.6 If the transformer is leaking oil along the rotary shaft after drying, please revolve the spigot tight. If it is leaking oil along the box cover, please revolve the round nut tight.
- 2.7 When the switch is at the limit position, strict forbid turning by force the hand-wheel to the limit direction.
- 2.8 After drying treatment, before operating the lap switch, shall lubricate each fixed or moving contacts of the tap switch carefully with transformer oil. And fasten each fixing parts to avoid loosening.

3. 安装 Installation

手轮式分接开关安装时, **特别注意手轮一定要在分接开关中间档位拆、装。**先旋出定位钉, 将手轮拔出来, 拧下圆螺母, 取下定位座、密封圈, 并检查密封圈是否完好。将带有一个密封圈的的分接开关从变压器箱盖下穿上, 再将退下来的零件依次装上去。

When installing the tap switch of hand-wheel type, **must be careful to let the hand-wheel be at the middle grade location of the lap switch for disassembling and assembling.** First, revolve out the locating screw, pull out the hand-wheel, unscrew the round nut, remove the locating stand, sealing ring and inspect the sealing ring to see if it is perfect or not.

Let the lap switch with a sealing ring pass through from under the box cover of the transformer to the upper face, and assemble all the disassembled parts in turn to it.



4. 操作说明 Operation Explanation

4.1 切勿将手轮拉起! (见图 1.1)

改变开关档位时, 将定位钉旋出到行程的终端, 只需旋转手轮(但不要将手轮拉起)到所需的档位后, 微调, 检查并确定手轮上与定位座上的两个箭头相互对准(见图 1.1)。将定位钉旋入手轮槽口中, 使手轮无法转动。(见图 1.2)

4.2 如用户需要在分接开关上安装挂锁, 可将挂锁的钩环(最大 6 毫米)插入定位座上的长方形孔, 即可用挂锁将手轮锁定在任何档位。

4.1 No pulling up the hand-wheel! (See Drawing 1.1)

When changing the grade-position of the switch, shall revolve out the locating screw to the travel end, only turn the hand-wheel (but you mustn't pull up the hand-wheel) to the needed grade position, make trimming, Check it to see if the two arrows on the hand wheel and the location stand are aligned with each other (See Drawing 1.1)revolve the locating screw into the slot of the hand-wheel to make the hand-wheel un-moved (See Drawing 1.2)

4.2 If the user needs to mount a hung lock on the tap switch, can stick the hook-ring (maximum 6mm) of the hung lock into the rectangle hole in the stand, in this way you can lock up the hand-wheel to any position by using the hung lock.

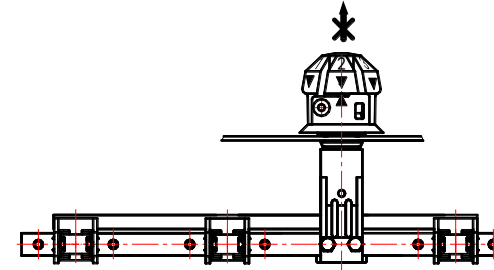


图 1.1 Drawing 1.1

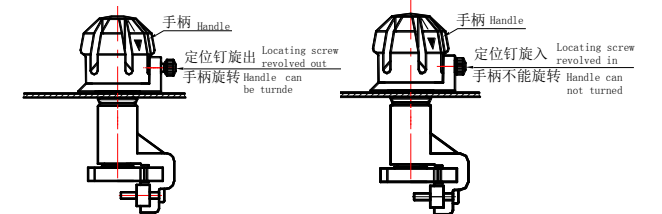


图 1.2 Drawing 1.2

5. 维护 Maintenance

操作必须在变压器完全从电网上切除, 在变压器无励磁的情况下进行。

- 5.1 先旋出定位钉, 再往返旋转手轮 5~8 个循环, 然后将手轮旋到需要的分接位置上, 再左右微调手柄几次, 将定位钉旋入手柄槽口, 有条件的最好对其接触情况测量, 以验证其接触可靠性。
- 5.2 开关在正常运行时, 为了防止锈蚀保证转动的灵活性, 每两年至少进行一次维护。方法同 6.1。
- 5.3 一般故障维护方法。
当箱盖密封出现渗油现象时, 应调节圆螺母松紧, 失效时应及时更换“O”型密封圈。当开关轴上出现渗漏油时扭紧调节塞子。
Operation must be carried out under the condition when the transformer is completely cut off from the network, and the transformer has no load.
- 5.1 First revolve the locating screw out, reciprocate to turn the hand-wheel 5-8 cycles; then turn the hand-wheel to the needed tapping position, make left-right adjusting the handle for several times, revolve the locating screw into the handle slot, if possible you'd better measure the contacting condition to make certain of the contacting reliability.
- 5.2 When the switch operates normally, shall maintenance once every two years at least so as to prevent rusting and ensure its operating smoothly. The method is the same as 6.1.
- 5.3 Maintenance Method for General Faults
When appearing oil-leaking on the seal of the cover of box, shall regulate the tightness of the round nut, if it has lost efficacy, shall change “O”Type sealing ring, when appearing oil-leaking on the shaft of the switch, shall screw up the adjusting spigot.

6. 贮存、运输 Storage and Transportation

- 6.1 存放在空气流通, 阴凉, 干燥, 无腐蚀性气体的环境中。
- 6.2 在运输途中应小心轻放, 严禁冲击, 防水防潮。
- 6.1 Store in the air-flowing, shady and cool, dry place without corrosive gas.
- 6.2 In the transportation, shall handle with care, strictly forbid to be impacted, and shall prevent water and wetness.

7. 安装尺寸 Installation Dimension

