

主要产品展示

MAIN PRODUCTS



目 录

DIRECTORY

气体继电器 Gas Relay	4
全密封气体继电器 The Seal Transformer	7
双浮球气体继电器 Double-floating Ball Gas	8
指针式油位计 Point Type Oil Level Indicator	10
压力释放阀 Pressure Relief Valve	13
真空偏心蝶阀 Vacuum Eccentric Butterfly Valve	15
油流继电器 Oil Flow Indicator	18
DM 系列板式蝶阀 Dm Series Plate Butterly Valve	20
活门 / 闸阀 Trap / Gate Valves	20
吸湿器 Moisture Absorber	21
储油柜胶囊 Rubber Capsule	21

产品介绍

追求卓越、铸造精品

THE PURSUIT OF EXCELLENCE, CASTING PRODUCTS

GAS RELAY

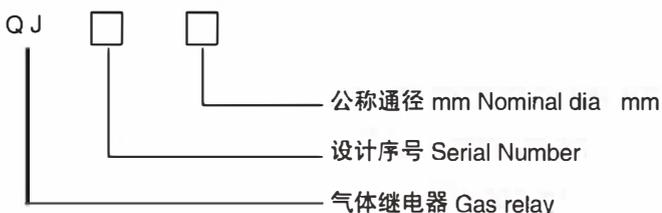
气体继电器

产品概述 General

QJ 系列气体继电器，是安装在 800KVA 及以上的油浸式变压器（有载分接开关）的种保护装置，该继电器安装在变压器与储油柜之间的连接管路中。当变压器（或有载分接开关）内部故障时产生的气体或油流冲动动板，使跳闸接点接通，自动切断电源起到保护变压器（或有载分接开关）的作用。它是变压器（有载分接开关）的主要安生保护装置，它采用挡板式磁力接点结构，当变压器（或有载分接开关）在运行中、出现故障时，继电器内气体达到一定容积时，开口杯下沉，上磁铁使上干簧接点闭合，接通信号回路，发出警告信号，当油流冲动动板，下磁铁使下干簧接点闭合，接通跳闸回路。变压器与线路断开，起到保护变压器的作用。

Gas relay sedrles QJ are kinds of protective devlces installed on oil immersed transtormers with on load tap shangers of 800 KVA and above, it is mocented on the cinnecting pipe between foronsformer and oil conservator. When the stop plate of ags relay is rushed by gas or heavy oil folw caused by internal failure of transformer or on losd tap changeer, the tripping contacts will be closed and the power source be disconnected automaticly to provide a protection for transformer or on load tap changer.

型号说明 Explanation of the type



执行标准：Q/TT J32.07.11-2018
Executive standard: Q/TT J32.07.11-2018



GAS RELAY

气体继电器

气体继电器选用表 List of gas relay to be selected

型号 Type	典型 图例 fig	安装尺寸 Installing dimension											备注 Remarks		
		D	D1	D2	D3	D4	B	L1	L	H1	H2	n		d	
QJ ₄ -25	图一 fig 1	25	85	115	31	56		200	206	210	150	4	14	有 4 个接线柱, 可 接导气盒。(1)	
QJ ₆ -25		25	85	115	31	56		200	206	186	141	4	14	2 个接线柱, 无气 体报警信号(2)	
QJ ₁ -50	图二 fig 2	50	130		56	100	120	160	168	216	156	4	M12	该产品为老型号, 除维修外很少采用, 4 个接线柱。跳闸 接点为串联连接, 无导气盒接口。(3)	
QJ ₁ -80		80	130		85	110	120	160	168	216	156	4	M12		
QJ ₁₀ -50		50	130		56	100	120	160	168	216	156	4	M12	该 产 品 为 QJ1- 50、QJ1-80 的 替 代 产 品, 安 装 尺 寸 相 同, 跳 闸 接 点 并 联 连 接, 可 装 导 气 盒。(4)	
QJ ₁₀ -80		80	130		85	110	120	160	168	216	156	4	M12		
QJ ₃ -50		50	125					125		185	223	160	4	14	该产品是用于带灭 火装置型油浸变压 器上, 6 个接线柱, 可装导气盒。(5)
QJ ₃ -80 QJ ₁₂ -80		80	160					160		185	240	160	4	18	
QJ ₄ -50		50	125					125		185	223	160	4	14	5 个接线柱, 跳闸 接点并联连接, 可 装导气盒。(6)
QJ ₄ -80		80	160					160		185	240	160	4	18	

GAS RELAY

气体继电器

技术参数 Technical data

- 1、工作温度 Working temperature: $-30^{\circ}\text{C} \sim 95^{\circ}\text{C}$
- 2、接点容量 Switch Capacity: AC 220V 0.3A $\text{COS}\phi \leq 0.6$
DC 220V 0.3A $S \leq 5 \times 10^{-3}\text{S}$
- 3、工作特性 Operation Character:



规格 Type	QJ-80	QJ-50	QJ-25
油速整定范围 Range of flow (m/s)	0.7~1.5	0.6~1.2	0.8~1.2
气体积聚数量 Gas accumulator (ml)	250~300		< 250

4、密封性能:

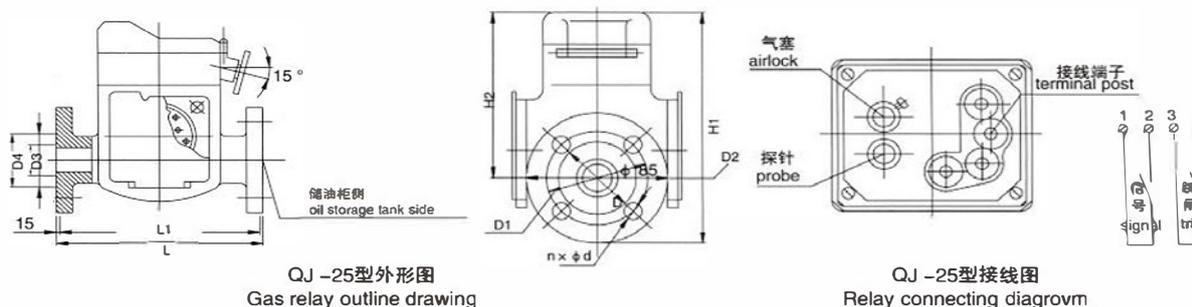
继电器充满变压器油，在常温下加压 200Kpa，持续 20 分钟无渗漏。

Sealing character: filling transformer oil into the relay, Pressurizing normal temperature 200Kpa, Continued 20min and without any leakage.

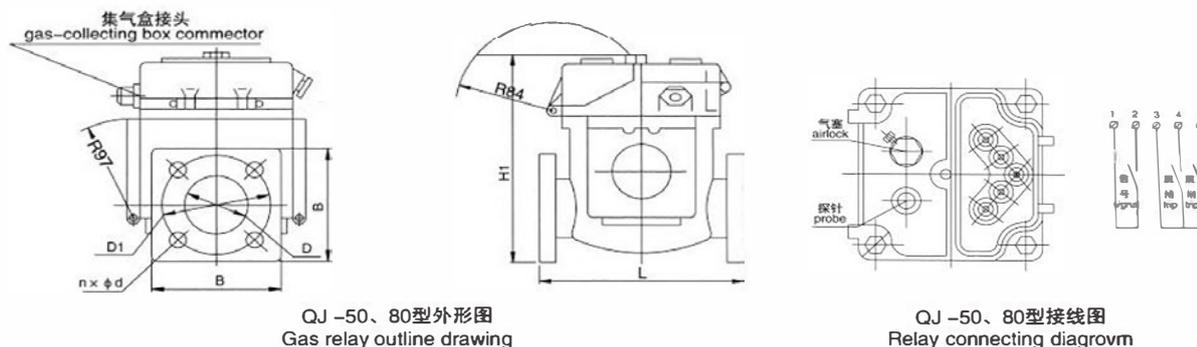
5、绝缘性能:

检测项目 test item	触点的端子间 Voltage between Contacts	端子对地间 Woleage between terminal and earth	信号和跳闸两组端子间 voltage between signal and tripping terminal
承受工频电压和时间 Bring to bear on industry volatye	2000v/1min	2000v/1min	2000v/1min

QJ25系列



QJ50、80系列



THE SEAL TRANSFORMER

全密封变压器

QJ2-40 型、QJ2-40L 型气体继电器

QJ2-40 type gas relay、QJ2-40L

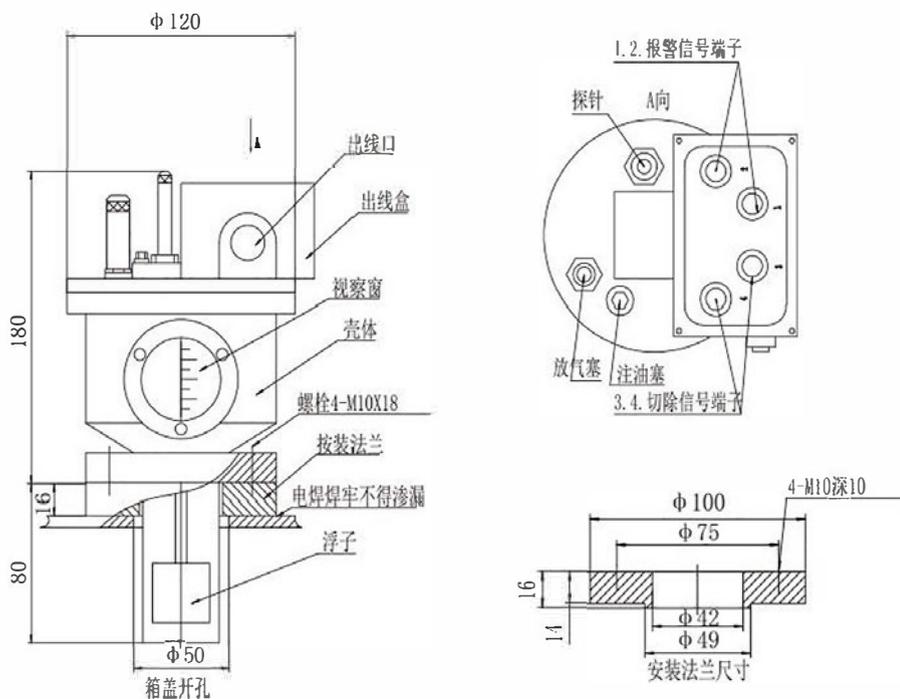


技术参数 Technology parameters

管路通径 Pipe size	φ 40mm	密封试验压力 Seal test pressure	200Kpa 20min
报警信号油面位置 Oil alarm position	箱盖上 20mm On the lid 20mm	工作温度 Operating temperature	-30 ~ +95°C
切除信号油面位置 Oil level signal removal position	箱盖下 35mm Under the lid 35mm	安装方式 Way to install	安装在变压器油箱上 Install on transformer box cover
接点容量 Contact rating	DC/AC 220V 0.3A	特点 Trait	避免继电器频繁动作 Avoid frequent action of relay

注：另有加长款 QJ2-40L，在箱盖上 45 报警，箱盖下 60 跳闸。

外形尺寸及安装法兰 Shape dimension and installation flange



QJ2-40型气体继电器外形图及安装尺寸

DOUBLE-FLOATING BALL GAS RELAY QJS35 SERIES

双浮球气体继电器 QJS35 系列

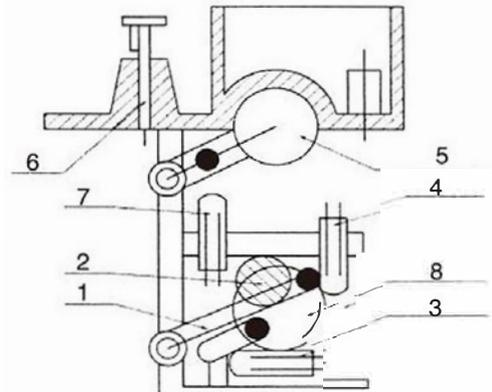
产品概述 General

QJS35 系列是带记忆功能的双浮球气体继电器系列。该系列在传统继电器的基础上升级为双浮球式结构，并增加了跳闸记忆功能、手动复位功能与缺油报警的功能。当变压器中气体量超标时，继电器轻瓦斯发出报警信号。当变压器内部发生故障，流速达到设定值时，继电器重瓦斯闭合切断变压器电源。当变压器故障油面降低时，继电器发出缺油报警信号。

Product description: QJS35 series is a series of double-floating ball gas relays with memory function. This series is upgraded to double floating ball structure on the basis of traditional relay, and adds trip memory function, manual reset function and oil shortage alarm function. When the amount of gas in the transformer exceeds the standard, the relay light gas sends out an alarm signal. When the internal fault of the transformer occurs and the flow rate reaches the set value, the relay heavy gas closes and cuts off the power supply of the transformer. When the fault oil level of the transformer is reduced, the relay sends out a signal alarm.

继电器机芯主要结构 Diagram of relay movement

- 1、动版 Movable plate
- 2、跳闸标志 Tripping logo
- 3、缺油报警接点 Oil level contact
- 4、重瓦斯跳闸报警接点 Flow velocity alarm(trip) contact
- 5、上浮球 Floating ball
- 6、测度及跳闸标志复位探针 Reset the probe
- 7、轻瓦斯报警接点 Gas alarm contact
- 8、下浮球 Down the ball



产品特点 Product feature

- 1、跳闸记忆功能 Trip recording function
- 2、手动复位功能 Manual reset function
- 3、缺油报警功能 Oil shortage alarm function
- 4、轻瓦斯报警功能 Light gas alarm function
- 5、重瓦斯报警功能 Heavy gas alarm function



继电器安装尺寸及接线 Outline and installation dimension

序号 No.	产品名称 Product Name	D0	H	L	D	A	d
1	QJS35-50	50	215	185	125	125	14
2	QJS35-80	80	250	185	160	160	18

技术性能参数 Technical parameters

- 1、工作温度 Working temperature: $-40^{\circ}\text{C} \sim +95^{\circ}\text{C}$;
- 2、接点容量 Switch Capacity: AC220V 0.3A DC220V 0.3A

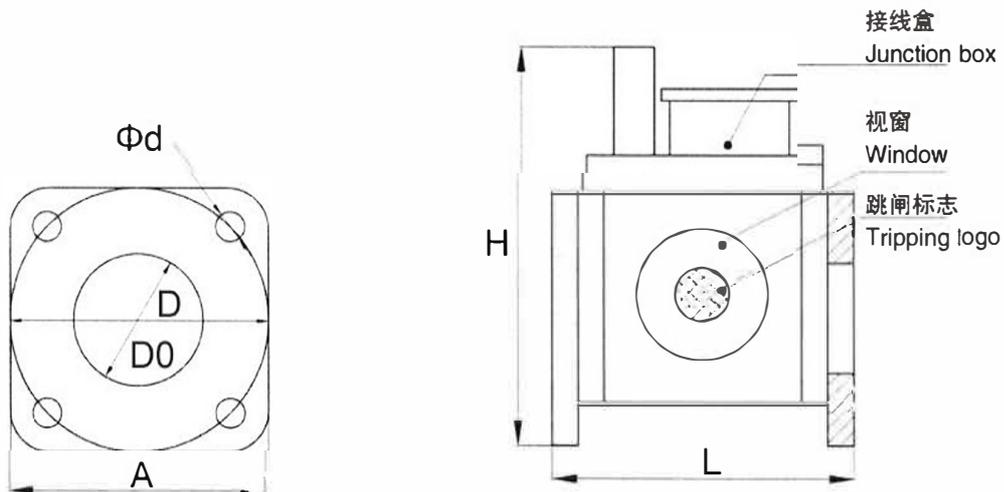
序号 No.	产品型号 Product Model	管径 (mm) Pipe Diameter	气体容积 Gas Volume (ml)	流速整定范围 Setting Range of Flow Velocity (m/s)
1	QJS35-50	50	250-300	0.8
2	QJS35-80	80	250-300	1.0

- 3、密封性能: 继电器充满变压器油, 在常温下加压 200Kpa, 持续 20 分钟无渗漏。
Sealing property: There is no leakage after the relay bears internal pressure of 200Kpa for 20min.

4、绝缘性能

触点的端子间 Voltage Between Contacts	触点的端子间 Voltage Between Contacts	端子对地间 Voleage Between Terminal And Earth	信号和跳闸两组端子间 Voltage Between Signal And Tripping Terminal
承受工频电压和时间 Bring to bear on industry volyage	2000v/1min	2000v/1min	2000v/1min

- 5、抗震性能: 当震动频率在 4-20Hz, 加速度为 4g 时, 继电器不误动作。
When acceleration is 4g at vibration frequency of 4-20Hz, the relay shall not do any.



POINT TYPE OIL LEVEL INDICATOR

指针式油位计

产品概述 General

YZ 系列指针式油位计，用于变压器及有载开关储油柜的油位测量和指示，也可用于各种承压式、敞开式窗口的液位测量和指示。该油位计不仅可以现场指示，而且有高低位警报信号输出，可用于远距离监控。

YZ series point type oil level indicators are used for oil level indication of conservators of transformer and on load tap changer as well as oil level indication of various pressure and open type containers. The oil level indicator is not only used for local indication but also can be used for remote control because it is provided with signal output of higher and lower oil level alarming. According to the JB/T 10692-2007 production.

使用条件 Service conditions

- 1、工作环境温度：-30℃ ~ +50℃；
- 2、工作环境相对湿度：当空气温度为 +25℃时的相对湿度不大于 90%；
- 3、周围无剧烈震动和颠簸的场所。

- 1、Ambient temperature: -30℃ ~ +50℃；
- 2、Relative humidity: The relative humidity will not exceed 90% under the condition of ambient temperature at +25℃
- 3、There should be no heavy vibration where the indicator is mounted.

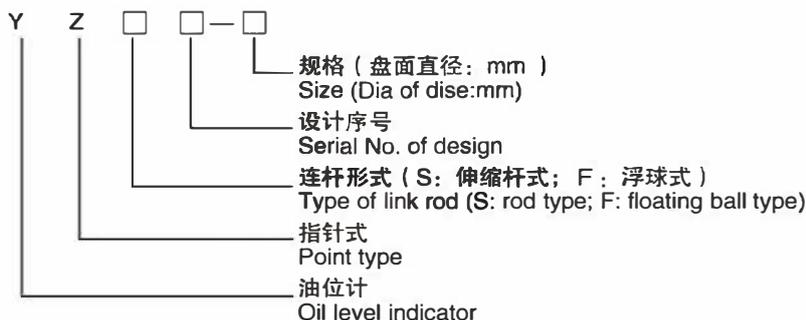


技术性能参数 Technical parameters

- 精度：2.5 级；
Accuracy class: class2.
防护等级：Ip55；
Protective class: Ip55
接点容量：AC 220V 1A, DC 220V 0.3A
Capacity of contcats: AC 220V 1A, DC 220V 0.3A
密封性能：0.3Mpa 油压试验，无渗漏、变形。
Seal performance: Without leakage and deformation under the oil pressure of 0.3Mpa



型号说明 Explanation of the type



YZF-100T

POINT TYPE OIL LEVEL INDICATOR

指针式油位计

主要规格型号 Main specification:

浮球式指针油位计: Floating ball point type oil level indicator:
YZF2-250、YZF2-200、YZF2-175、YZF2-140、YZF3-140、
YZF-120、YZF-100

伸缩杆式指针油位计: Rod type oil level indicator:
YZS2-250 YZS2-200 YZS2-140

套管专用油位计 Special casing oil level gauge: YZF-100T



YZS2-250 型指针油位计的连杆尺寸:

The dimensions of link rod of YZS2-250 are listed in the table below:

直径 mm Dia	直线长 mm Length straight line	伸开长 mm Unfolded length
10	620	877
10	720	1018
10	940	1329
10	1017	1513
10	1420	2008

YZS2-250 型指针油位计的连杆尺寸:

The dimensions of link rod of YZS2-250 indicator are indicated in the tfollowing below:

直径 mm Dia	直线长 mm Length straight line
10	985
10	1195
10	1395
10	1585

安装与使用 Installation and operation

- 1、当摆杆静止时，指针是否指到 MIN，摆杆转至上限时，指针是否指到 MAX，并无发卡现象；
- 2、与此同时应发出高低油位信号；
- 3、报警机构出厂时已调好，如需要重新调整，可打开表盖，调整凸轮或开关位。

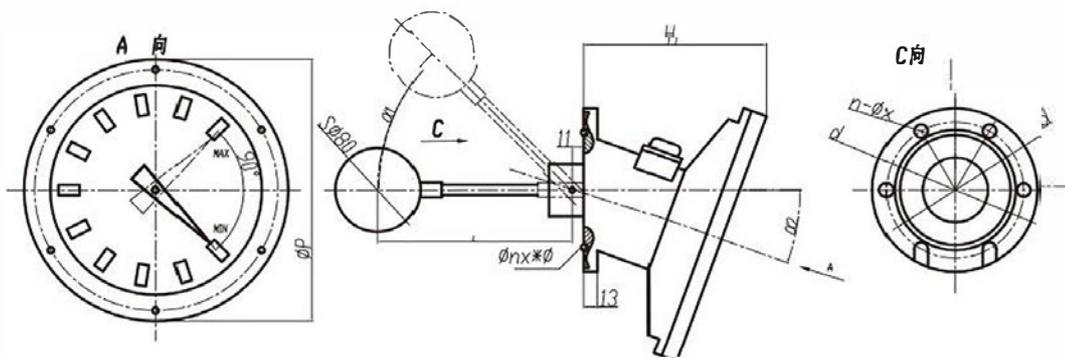
Thefollowing inspections shall be made before installtion and operatoin of oil level indicator:

1. When thewaving rod of the indicator in the static condition, please maje sure that whether the pointer is indicating the min position or max position after the waving rod turned by down.
2. The signal for high oil level should be given inthe same time.
3. The alarming mechanism has been adjusted when ex-work. However, it can be adjusted again only by adjusting the position of the cam or switch after opening the cover of the indicator, if necessary.

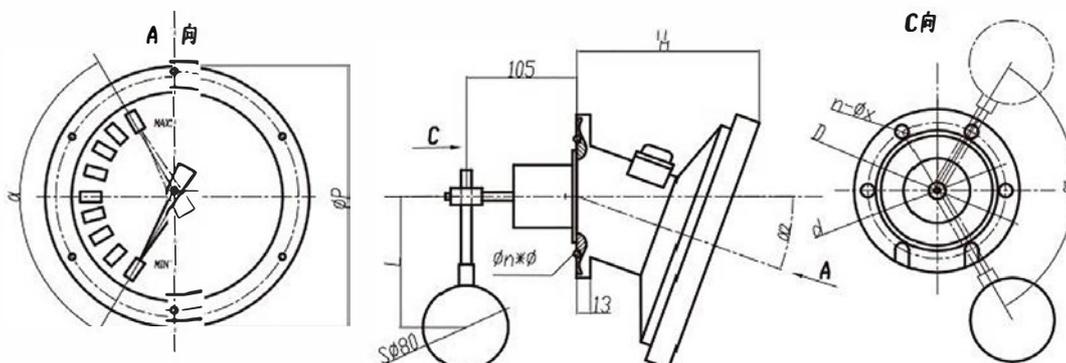


POINT TYPE OIL LEVEL INDICATOR

指针式油位计



YZF2-250 外型图



YZF 系列油位计安装尺寸简表 YZF oil level indicator installatoin size simple list

规格型号 Type	ΦP	α	日	日	d	n- Φx	$\alpha 1$	$\alpha 2$	$\Phi n \times \Phi$
YZF2-250	250	270°	170	156	130	6- $\Phi 12$	45°	20°	$\Phi 115 \times 6$
YZF-250	250	270°	170	195	170	6- $\Phi 12$	45°	20°	$\Phi 152 \times 8$
YZF-200	200	270°	155	195	170	6- $\Phi 12$	120°	20°	$\Phi 152 \times 8$
YZF2-200	200	120°	155	160	135	6- $\Phi 12$	120°	20°	$\Phi 115 \times 5$
YZF3-200	200	270°	155	160	135	6- $\Phi 12$	45°	20°	$\Phi 115 \times 5$
YZF2-175	175	120°	100	210	170	4- $\Phi 18$	60°	0°	
YZF-140	140	120°	85	140	116	4- $\Phi 13$	120°	0°	$\Phi 100 \times 7$
YZF3-140	140	270°	160	140	116	4- $\Phi 13$	45°	20°	$\Phi 100 \times 7$
YZS2-250 (YZB"-250)	250	270°	160	140	116	4- $\Phi 13$	水下向下 45°	20°	$\Phi 152 \times 8$
YZF-120	120	120°	26	120	108	4- $\Phi 6$	120°	0°	$\Phi 108 \times 6$
YZF-100	100	120°	25	100	88	3- $\Phi 7$	120°	0°	$\Phi 88 \times 7$

PRESSURE RELIEF VALVE

压力释放阀

产品概述 General

YSF 系列压力释放阀，主要用于油浸式变压器，也可以用于油载分接开关等各类油浸电气设备，当油箱内部压力达到整定值时，压力释放阀自动开启，动作后自动关闭复位，使油箱内部压力保持正常，是防止油箱内部因压力过高而发生事故的保护组件。

YSF series pressure relief valve mainly applied to oil-immersed transformers, it can to load tap changer and other oil-immersed electric equipments, Good protective performance, When the inner pressure raches the setting value, it can be opened and closed automatically and the pressure in the will keep normal. it is used as protectilve to avoid accidents when the pressure in the tank is very high.

型号说明 Explanation of the type



PRESSURE RELIEF VALVE

压力释放阀

说明: Explanation

信号及工作环境代号:

Code number of signal and operation environment

KJ- 同时带开关信号和机械信号。如无开关电信号则不标;

KJ-Switch electric signal and mechanical signal/If there is no switch electric signal, on signal:

TH- 湿热器; TH-Damp-hot type; TA- 干热器; TH-dry hot type;

D- 导向喷油 Pilot injection;

一般地区, 工作代号不标。

No operating environment code number in common places.



主要规格及技术参数 Main specifications and technical parameters

法兰安装尺寸 Flange size installation

序号 Sequence number	喷油口径 Injection caliber	外径 D Outside diameter D	连管内径 × d Even the pipe inner × d	阀体总高 H Body always high H	安装孔中心径 Installing hole center size	螺孔直径 × 数量 Screw hole diameter × quantity	密封圈外径 Φ A Sealing ring outside diameter Φ A	喷油罩外径 Φ B Injection cover outside diameter Φ B
JB/4	25	112	45	94	90	M10 × 3	64	60
JB/5	50	156	80	120	130	M12 × 4	107	100
JB/6	80	195	130	150	170	M12 × 6	207	213
JB/7	130	265	155	180	236	M12 × 6	274	281

YSF 系列压力释放阀的产品基本技术参数: 表 2

Technical parameters for YSF series pressure relief valve:

喷油口径 Type	外径 D Outside diameter D	箱盖开孔 Φ D Hole on the box cover Φ D	阀体总高 H Body always high H	箱盖与阀体总高 H The box cover and body always high H	螺纹 × 螺距 M × P
Φ25	60	40	70	90	38 × 2 (33 × 2)
Φ50	100	80	80	105	60 × 2

结构概述 Structure overview

1、压力释放阀的机械结构为户外型

2、我公司的压力释放阀产品, 按照喷油方式有如下二种:

YSF4 型, 普通型、圆周方型喷油

YSF5 型, 定向喷油, 阀体均有定喷油口

3、Φ50、Φ80、Φ130 型产品均可带信号开关。

1. The mechanical structure of the pressure relief outdoor type.

2. According to the method of oil injection, there are two kinds of pressure relief valves:

YSF4, general type, injecting oil in circle.

YSF5, directed type, it has specified injection nozzle.

3. All of Φ50、Φ80、Φ130 type products have electric signal switches.



VACUUM ECCENTRIC BUTTERFLY VALVE

真空偏心蝶阀

产品概述 General

ZDF 系列真空偏心蝶阀是适用于油浸变压器上的专用阀门。依据中华人民共和国机械行业标准 JB/T 5345-2005 《变压器用蝶阀》等标准设计、制造。我公司生产的 ZDF 系列变压器用真空偏心蝶阀，是在总结、分析、修正国内外同类变压器、耐高温，具有长期使用无渗漏的特点。且由于各个部件精致加工，能达到小的转动力矩。



ZDF series vacuum and eccentric butterfly valve is special used on oil-immersed transformer. We design and manufacturer the vacuum and eccentric butterfly valve according to China JB/T 5345-2005 <Butterfly for transformer> Standard. Our ZDF's vacuum and eccentric butterfly valve is the newest product based on summarizing, analyzing and revising similar products from home and abroad, it has good structure and there is excellent material in sealed component. It can withstand the high oil temperature and without leakage during the long operation. Since every component was designed exquisitely, it can operate in a small moment.

产品使用 Application

一般安装在油浸变压器与冷却器、散热器及储油柜和通油管路的法兰连接部分。用于在真空注油以及变压器运行和检修时，开启或关闭变压器油路。也可在事故放油或检修放油时使用。

Generally, it is installed on the connecting part between oil-immersed transformer and cooler, radiator, conservator and flange for oil pipe line. It is used for vacuum oil-filled and opening or closing oil pipe line when the transformer is in operation and maintenance. Also, it can be used for draining oil when there is an accident.

产品特点 Performance and Characteristics

- 1、阀板密封偏离心轴旋转中心，阀板与心轴各自形成独立的密封系统，可以达到理想的真空密封效果；
- 2、操作力矩小；
- 3、能保证开关操作准确到位；
- 4、可以防止阀板在油流冲击下自由关闭；
- 5、阀体表面全部机械加工，表面采用烤漆或喷塑或化学镀镍磷合金，具有非常好的防腐能力；
- 6、产品表面光滑、美观。

1. Sealed valve plate deviates from rotation center of core shaft, valve plate and core shaft form a single sealed system, which can reach an ideal sealed effect;
2. A small operating torque;
3. Assure open and close operation nicely;
4. Prevent the valve plate from closing freely at the impacting of oil flow;
5. All of valves surface is Machining, adoptive stoving varnish, Spray or Electroless nickel-phosphorus alloy, so it have a great Anti-rust capability;
6. Surface is smooth and pleasing to the eye.



VACUUM ECCENTRIC BUTTERFLY VALVE

真空偏心蝶阀

使用条件 Service conditions

环境温度: $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$ Environment Temperature: $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$
 工作温度: $-30^{\circ}\text{C} \sim +105^{\circ}\text{C}$ working Temperature: $-30^{\circ}\text{C} \sim +105^{\circ}\text{C}$



技术性能参数 Temperature parameters

- 1、气压密封性能: 承受 0.5Mpa 气压, 无渗漏;
- 2、真空密封性能: 绝对压力 32Mpa 时, 保持 10min 的漏气率小于 1.33pa.L/S;
- 3、机械寿命强度: 蝶阀完全开启、关闭 1000 次, 密封元件磨损小于 0.05mm;
- 4、转矩力矩:
 1. pressure sealed performance: withstand 0.5Mpa, without leakage;
 2. Vacuum sealed performance: When the absolute prssure is 32Ps, keep the leakage rate than 1.33Pa.L/S for 10 min.
 3. Mechanical life strength: Butterfly valve ie open completely, close 1000times, sealed parts are abraded less than 0.05mm.
 4. Rotating torque.

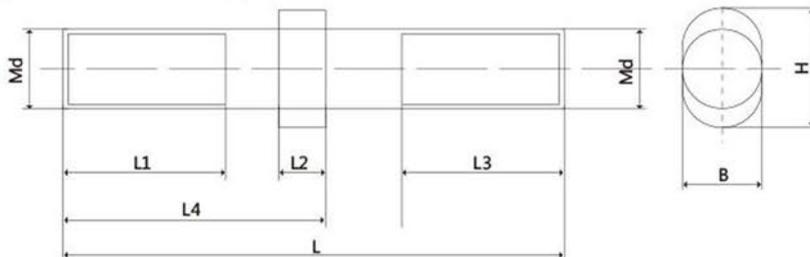
公称通径 DN(mm)	40	50	80	100	125	150	200
最大转动扭矩 N.m	15	20	35	45	75	110	205

产品特点 performance Characaristics

可生产用于连接冷却器, 片式散热器, 箱盖, 气体继电器的各种不同的真空偏心蝶阀。
 It is used to connecting coolers,finned radiator, tank cover, different vacuum eccentric butterfly valve for gas relay.



蝶阀专用异形螺栓外形及尺寸。
 Overall dimensions of special bolt for butterfly valve.



规格型号 Type	L	L1	L2	L3	L4	H	B	d
Φ40、50	105	35	10	30	60	20	12	12
Φ80	125	40	12	40	65	30	20	20
Φ100、125	135	40	10	45	70	24	16	16
Φ150、200	145	40	12	45	75	30	20	20

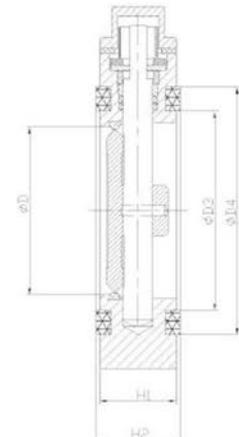
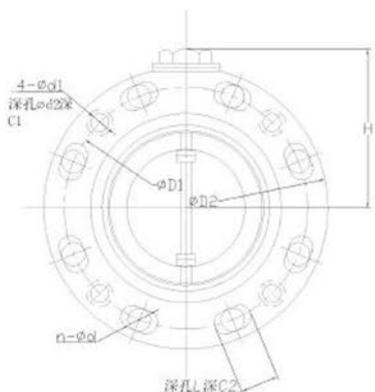
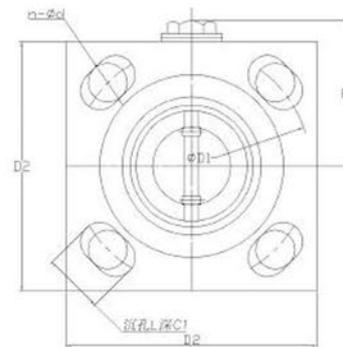
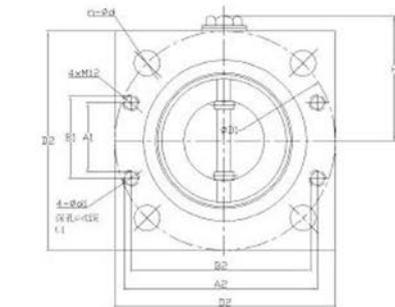
VACUUM ECCENTRIC BUTTERFLY VALVE

真空偏心蝶阀

蝶阀安装尺寸 Butterfly valve's instation size

直径 (d)	代号 code	D1	D2	D3	D4	H	H1	H2	A1	A2	B1	B2	C1	C2	n	d	d1	D2	L	备注												
Φ40	5ET.445.113	85	90	50	66	60								12					22	联接法兰结构												
	30								72																					联气体继电器		
Φ50	5ET.455.211.1	125	125	75	98	77	32	37						12	4	14			22	联接法兰结构												
	60			82																								联接箱盖结构				
	36			93	50				95	15																			联气体继电器			
Φ80	5ET.455.212	150	150	95	120	90	35	44						15	8	23			35	联散器联管用												
	5ET.455.212.3																													联冷却器油泵		
	5ET.455.248.1								160	160	95	120	95							55	135											联气体继电器
	5ET.455.248.2																											70	130	15		
Φ100	5ET.455.243.1	180	220	120	145	122	40	48						15	8	19				联接法兰结构												
	5ET.455.243.2																						20								联接箱盖结构	
Φ125	5ET.455.235.1	200	235	140	165	129								20	8					联接法兰结构												
	5ET.455.235.2																						20								联接箱盖结构	
Φ150	5ET.455.236.1	240	280	165	190	152	46	54						20	8	23				联接法兰结构												
	5ET.455.236.2																														联接箱盖结构	
	5ET.455.236.3																															联冷却器结构
Φ200	5ET.455.253.1	295	335	225	250	179														联接法兰结构												
备注 remarks	联接法兰结构 coupling flange's structure 联气体继电器 coupling gas cletector relay 联接箱盖结构 coupling tank 联散器联管用 coupling radiator the tube 联冷却器油泵 coupling shiller oil pump																															

Φ50 80蝶阀 5ET.455.211.2-3
5ET.455.248.1-2



OIL FLOW INDICATOR

油流继电器

产品概述 General

YJ系列油流继电器,是一种监视油位流量变化的报警信号装置。依据中华人民共和国机械行业标准 JB/T 8317-2007《变压器冷却器油流继电器》等标准设计、制造。

BLZ series oil flow indicator, is a sort of alarm device that can monitor oil's flow changes, it is designed and manufactured according to China JB/T8317-2007 <Oil flow indicator Transformer Cooler> standards.

产品使用 Application

该产品可用于监视强油循环风冷却器的油泵运行情况,同时也监视油泵是否反转,阀门是否打开,管路是否有堵塞等情况,当油量减少到一定数值时发出报警信号。

波纹管柔性连接的流量指示器可满足拆装组件时所需要的间隙,同时还能改善密封条件,降低振动,减少噪音,可在不改变现有安装尺寸的情况下,使冷却器和变压器油泵之间实现柔性连接,其中与波纹管连接的法兰可任意旋转调节径向安装量,以解决用户现场安装难的问题。

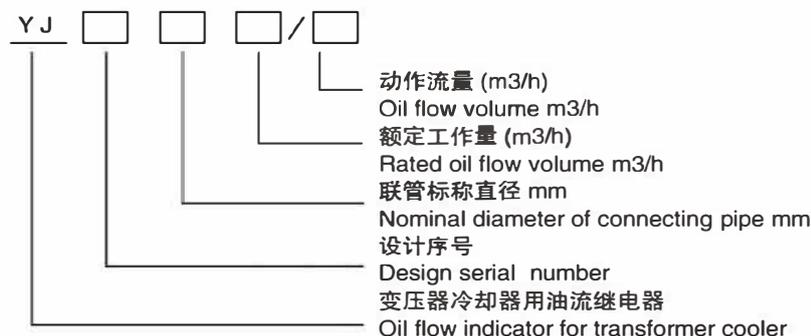
This product can be for monitoring the operating situation of OFAF cooler and OFWF cooler, it can also monitor whether the oil pump is reversed, valve is open and the pipeline is blocked. It will be given a signal when the oil flow is decreased to specified values.

Corrugated tube flexible connected oil flow indicator can satisfy required clearance when disassemble and assemble accessories, Also, it can improve the sealed condition, reduce vibration and noise, and is able to connect the cooler and transformer oil pump flexibly without changing the installed dimensions. The flange connected to the corrugated tube can rotate randomly and install in radial direction, in this case which can install easily in the field.

使用条件 Service conditions

- 1、周围环境温度: -30℃ ~ +40℃
 - 2、相对湿度: 当空气温度为 +25℃时的相对湿度不大于 90%
 - 3、油温不高于 90℃
 - 4、周围无剧烈振动和颠簸的场所。
1. Ambient temperature: -30℃ ~ +40℃
 2. Relative humidity: The relative humidity will not exceed 90% under the condition of ambient temperature at +25℃
 3. The temperature of oil shall not exceed 90℃
 4. There should be no heavy vibration where the indicator is installed.

型号说明 Explanation of the type

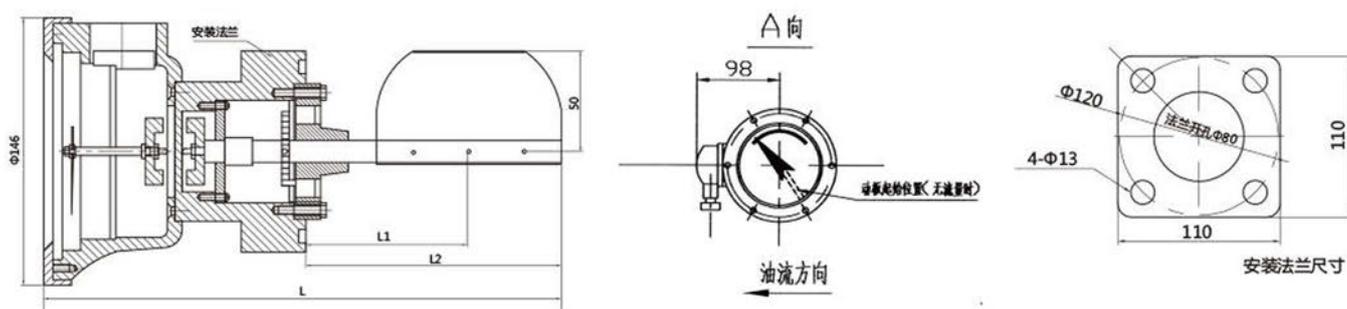


OIL FLOW INDICATOR

油流继电器

主要规格及技术参数 Main specifications

型号 Type	额定工作流油量 Rated oil volume (m ³ /h)	动作流油量 Oil volume (m ³ /h)	返回流油量 Return oil flow volume (m ³ /h)
YJ-50-20/15	20	15 ± 1.5	11 ± 1.1
YJ-80-40/30	40	30 ± 3	22 ± 2.2
YJ-80-45/30	45	30 ± 3	18 ± 1.8
YJ-100-90/68	90	68 ± 6.8	50 ± 5
YJ-150-60/45	60	45 ± 4.5	30 ± 3
YJ-150-80/55	80	55 ± 6	44 ± 4.4
YJ-150-135/70	135	70 ± 7	50 ± 5
YJ-150-135/101	135	101 ± 10.1	75 ± 7.5



主要尺寸 Main dimension of oil flow relay

型号 Type	L	L ₁	L ₂	重量 kg
BL2-50-20/15	195	40	62.5	2.5
BL2-80-40/30	217	54	84	2.5
BL2-80-45/30	225	62	92	2.5
BL2-100-40/30	245	72	112	2.5
BL2-100-80/60	238	75	105	2.5
BL2-100-90/68	220	57	87	2.5
BL2-125-80/60	273	100	140	2.5
BL2-125-150/100	263	100	130	2.5
BL2-150-60/45	293	110	160	2.5
BL2-150-88/55	293	110	160	2.5
BL2-150-80/60	239	110	160	2.5
BL2-150-70/50	283	110	160	2.5
BL2-150-125/94	283	110	160	2.5
BL2-150-135/101	283	110	160	2.5
BL2-150-135/70	283	110	160	2.5

DM SERIES PLATE BUTTERFLY VALVE

DM 系列板式蝶阀

产品概述 General

DM 系列真空蝶阀，适用于油浸式变压器类产品。供注油、放油、关闭以及真空处理之用。

DM series vacuum butterfly is applied to the similar products of trans former. it is used for draining oil, opening and closing pipeline, and vacuum treatment.

蝶阀 通径 D	代号	D1	D2	D3	D4	D5	B	B1	B2	B3	B4	Md	md1	d2	H
40	5EF.455.113	46	108	75	85		85 × 85	32	40	14		8			98
50	5EF.4550.45.4	48	140	100	110		120 × 120	32	38	14			12		117
80	5EF.4550.45.4	90	160	140	150		150 × 150	32	38	23	132				207
100	5EF.4550.015	120	190	180		220		45	55					19	185
125	5EF.455.032	140		200		235		45	55					19	180
150	5EF.455.033	160		225		260		45	55					19	200

TRAP/GATE VALVES

活门 / 闸阀

产品概述 General

我公司生产的蝶形止回阀上参照原来沈阳变压器有限责任公司的技术标准并综合各个变压器生产制造公司的技术要求进行设计和制造的精致产品。具有优良的结构设计，产品性能可靠，生产工艺严谨，外观美观，表面处理工艺先进，产品耐腐蚀性良好。

Our company produces the technical requirements of all transformer manufatuier. it has a good structural design, hriable performance, strict production process, wonderfil appearance, advanced surface treatment and well corllosion-resistance.

产品使用 Application

一般安装在集中冷却的母管与冷却器之间的油管路中由于冷却器的下部支管一般安装有油流继电器等，所以一般蝶形止回阀安装在上部支管。

Generally, it is installed between the main tube 安定 the oil pipline, Since the oil flow relay is indtalled on the lowe branch tube, so the check valve is installed on the uppled on the upper branch tube

使用条件 Service conditions

环境温度：-30℃ ~ +40℃ Environment temperatuie: -30℃ ~ +40℃

工作温度：-30℃ ~ +105℃ Working temperature: -30℃ ~ +105℃

时间通径 D	H	B	D	d	Md	备注
80	240	152	160	80	16	沈变
80	240	152	180	80	16	保变
50	180	120	125	50	16	
25	130	80	85	25	10	



MOISTURE ABSORBER

吸湿器

概述 overview

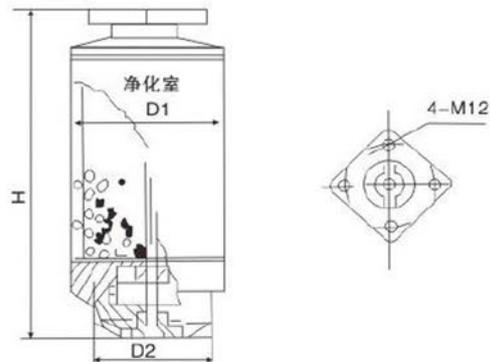
吸湿器是连接在变压器(或者互感器)储油柜上,用来吸入储油柜中的潮气和杂质,以保证变压器油绝缘强度的一种组件。

The moisture absorber is one kind of that connect transformer's (or mutual inductor) oil cinservator, use to inbibe tidal air and impurity which in the oil consrevator, and assure transformer's oil insulation strength.

产品规格 size of product

我厂生产的吸湿器按用途分有六种规格: 02KG、0.5KG、1KG、1.5KG、3KG、5KG。

The moisture absorber we produced, there are six size: 02KG、0.5KG、1KG、1.5KG、3KG、5KG.



型号	D1	D2	H
YC-0.2	80	60	175
YC-0.5	100	76	220
YC-1	140	90	255
YC-1.5	140	90	325
YC-3	200	125	440
YC-5	200	125	540

RVBBER CAPSVLE

储油柜胶囊

一、用途: 变压器橡胶囊, 橡胶隔膜均系变压器配套产品, 防止变压器油质劣化的一种橡胶配件。

Functions: Rubber capsule and rubber diaphragm for transformer are all products for a complete set of transformer and are rubber fittings for prevention from oil deteriorating of transformer.

二、结构及工作原理

橡胶囊: 隔膜采用耐油性能优良的高强力胶布加工而成, 置于变压器油柜中, 随油位变化上下浮动, 防止不和氧浸入油面, 防止油质劣货, 延长绝缘材料的使用寿命, 确保变压器长期安全运行。

Operational Principle: Rubber capsule and rebber diaphragm are made form adhesive plaster of mightiness with excellent oil proof.They are installed in the oil tank of transformer, floating upwards and downwards with changes of oil level to prevent water and oxygen from immersing into oil and prevent oil from deteriorating. They can prolong the useful life of insulated material and assure long and safe operations of transformer.

此样本仅供参考, 具体技术参数, 请来电咨询我厂技术人员。

This swatch is for refrrence only, plese ring up our technican to ask specifications.