



# Operation Manual

wafer-type ball valve (KK.)

CANGZHOU BEYOND METAL PRODUCTS CO.,LTD.  
Ball Valve Operating Instruction  
1PC WAFER FLANGE BALL VALVE IS05211 MOUNTING PAD

**Ball Valve Operating Instruction**

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1、 Purpose and Specification

This products is our company according to the DIN3357 designs and manufactures of steel ball valve, It is used for liquid,gas etc tubing line open or close.The main advantages include: Reliable sealing structure、 Thechnology advanced、 Small liquid resistance、 Flexible open and close、 Long service life、 Safe reliabe、 Convienient maintance etc. This kind of ball valve is widely utilized in Petroleum、 Chemical industry、 refinement、 Steel and iron、 papermaking, medicine etc.

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### 2. Structure Characteristic

2.1 90 degree rotary, Low operating torque, it is easy to realize automatic control.

2.2 Full port, small resistance to liquid, easy to clean the pipeline

2.3 Stem head's flat square structure has provided the installment and the pipeline parallel horizontal handle, can prevent wrong installation, and easy to distinguish the condition which the valves open or close.

2.4 The lower end of the stem is designed with an integral collar to be blow out-proof . it also functions as the backseat for assured stem sealing.

An antistatic feature is provided to ensure electrical continuity between ball ,stem and body.

Once has the fire, Valve's fire-safe structure may keep the fluid minimum leakage of outside and inside.

2.5 The solidity body can withstand the fluid's pressure load of temperature difference、 pipeline additional stress and vibration.

### 3. Maintenance, Installation and Using

3.1 The valve can be installed anywhere, but it must be easy to maintain, repair and operate.

3.2 Before installing,should check the product's marks whether to meet the field operating requirements.

3.3 Before installing, should check the valve's inner cavity and seal surface. Don't allow any dirt .should meet the installation requirements.

3.4 Before installing should check the valve in the process of open or closed ,whether there is the phenomenon of jamming、 if the bolt&nut is loosening、 whether the packing is pressed etc.

3.5 The valve should be stored ih the dry and well ventilated room, should be blocked at both ends of the passage and the valve should be totally open,don't allow to stack.

3.6 For the long time storage's valves ,should be regular inspected , cleared the dirt and spreaded the anti-corrosive grease on the machined surface.

3.7 In the pipeline system operation, the valve only can open or close, don't allow to make the adjustment to use.

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**4. Malfunction& its solution**

<b>Malfunction</b>	Cause&analysis	<b>Solution</b>
Stem unhandy turning	1.Over tight of the packing 2.Stem surface roughness does not conform to the drawing's requirements or the product has the contamination 3.Stem occurs curving	1.Adjusting packing gland nut. 2.Stem surface roughness should conform to drawing's requirements. Cleaning the feculence 3.Adjust the stem.
Leakage on sealing surface	1.Preload force insufficiency 2.Sealing surface has damage( For example: Indentation flaw 、 abrasion etc) 3.Between sealing surface,there is feculence. 4.Has not full opened or closed	1. Readjust of the preload force 2. Repair sealing surface or replace the sealing pair 3.Open the valve and clean the feculence. 4.Switch should be consistent with position indicator's marking
Leakage on packing	1.Packing does not be compressed 2.Packing quantity is not enough 3.Packing were out of date 4.Stem roundness exceeded tolerance,has defect of scratch、reticle、hacking etc.	1.Recompress the packing 2. Add the packing quantity 3. Replace the packing 4. Repair the stem or replace the stem.
Leakage on flange	1.Bolt's tightening non-uniform 2.Gasket damaged or out of the date 3.Flange sealing surface's processing unqualified	1.Tighten bolts evenly 2.Replace the gasket 3.Repair the flange sealing surface