



Safety notice/Rotary cylinder/caution for application

CHELIC PNEUMATIC

Please read the safety notice carefully before using and pay attention to the safety caution of this product

- Pay attention to the individual caution for various model series(read the cautions and safety notice in P9-10 for common cautions)

Caution for service and Selection

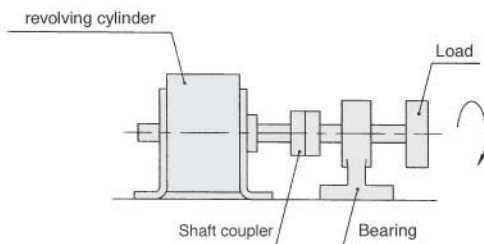
Warning

- Make thorough understanding to the characteristic of the compressed air and the application of this product while designing circuit.
- Please use only the fluid stated on the catalog, don't use the fluid other than limited, in order to prevent damage of product and affect the operation safety.
- The air used is compressed air, please note that expandable and unstable pressure will fly out, burst out, or leak.
- Please used as per specification and within the specified conditions; use exceed the specification may cause hazard. Please used as per the specification stated on the catalog, exceeding the pressure beyond the specification, temperature and condition will cause poor action and affect the operation safety.
- Due to the mechanical design of the revolving cylinder with variation of wobbling movement, please pay attention to flying objects and possible crash hazard of your limbs, which may result in body injury and mechanical damage and so on; Please take precaution upon designing.
- The movable range of revolving cylinder may contact our body and cause injury, should be protected by safety guard to prevent direct contact of body hazard.
- For larger mechanism or long stroke object, the revolving cylinder must equip with buffer device and provide with deceleration circuit to reduce and sooth the rigid impact of the mechanism device.
- Take the emergency or transient cut off power source, or power failure, air source circuit pressure drop causing holding force drop, vertical movement slip and resulting in damage of mechanical device, and human safety into account upon designing, so, safety countermeasure should be taken in design.
- Take the driving mechanism and circuit control system combination into account upon design, avoid residue pressure in circuit, fail to completely positioning and lateral pressurized and other factor, causing high speed fly out of the object. These situations are very possible to cause body injury and limbs crashed, and damage of mechanism. Countermeasure of protective circuit is necessary.
- Emergency stop device for mechanism is essential. In case of malfunction, in addition to protective device, emergency stop device should be provided in order to prevent body injury and damage of equipment.
- Re-start after emergency stop should confirm safety position of all mechanism, avoid interference and impact due to error position, affect human body and damage the equipment; there should have safety precaution countermeasure for restarting after emergency stop upon design.

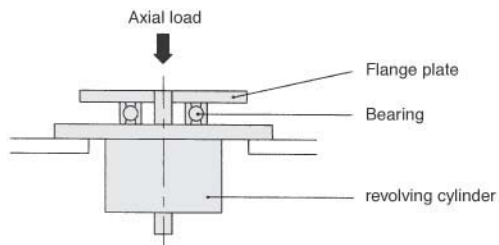
revolving
cylinder

⚠ Caution

- The magnet on the cylinder slide base should keep distance from iron plate and magnetic object to prevent the cause of error induction, and should avoid too close to other magnetic related sensor and the range of slide base stroke and induce error induction.
- Please don't apply external process to revolving cylinder to change the profile and structure, causing insufficient strength and structure damage, part damage.
- Please don't enlarge the vent hole of inlet, enlarged bore increase rocking speed and inert torque instant impact, lead to structure damage of product and human injury.
- Fixation of the rotation shaft and object should avoid the phenomena of eccentric and interference, the best method is adopting floating or axial coupling with freeness.



- If the revolving cylinder receives axial load, avoid direct load on shaft, this will tend to damage of internal structure of the revolving cylinder, the best mean is to add the load by using fixture to the shaft, the revolving cylinder serve only revolving movement.



- Please don't hammer the revolving shaft and body while revolving shaft is fixing, to avoid bend deformation of revolving shaft and damage deformation of the body.
- The best controlling method of angular positioning of the revolving cylinder is adopting external positioning method, match with positioning screw or hydraulic buffer to control direct stop.



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Caution for service and maintenance

Warning

- Shut off the power switch and air source properly before service and maintenance, confirm that there is no residue pressure in the pipeline and start work after confirming the status is safe.
- Please don't disassemble the revolving cylinder in discretion, disassemble the revolving cylinder in discretion will lead to displacement of the original calibration accuracy; error disassembling will lead to hazard and cause problem on operation of the product.

Caution

- The cylinder is coated with small amount of oil at initial using state, it will decrease after a period of usage, and should be added up with appropriate amount of oil according to actual application condition. Lubricant is essential in high speed moving, limit to use ISO-VG32 lubricant, feed by oil applicator, may cause poor action if stop oiled when it is required.
- Service and maintenance should be perform regularly as schedule, and confirm the normal operation of following:
 - (1) Is the compressed air supplied stably?
 - (2) Is the front filter and strainer normal?
 - (3) Is the connection portion or piping loosen accompany moving of object? Is the pipe connection portion normal?
 - (4) Is the action condition of the cylinder normal? Is there any delay phenomena and exhaust normal? Any strange noise?
 - (5) Whether the piping system connected to solenoid valve (governor) normal? Terminal start and stop movement normal? Is the load system normal?
 - (6) Is the lubricant feeding system normal? Is the oil amount adjusted properly?

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