Fluid Control Valves

Safety Precautions

Be sure to read this section before use.
Refer to "Fluid control valves (RJ-013AA)" for general precautions

Product-specific cautions: Direct acting 2, 3-port valve (fine pinch valve) HYN Series

Design / Selection

⚠WARNING

■Ambient environment
Take appropriate safeguards when using this product in places where it may be exposed to water drops.

■Do not disassemble
Once disassembled, the product may not satisfy the required performance any longer even if reassembled.

⚠CAUTION

■Check the compatibility of product component materials and working fluids. Also, do not allow fluid to come into contact with the product body.

■Do not use for strong acids such as hydrochloric acid, hydrofluoric acid or nitric acid.

■Do not use for sodium hypochlorite (soda). (Compatible models only)

■Carefully select the solenoid valve, taking the chemical liquid characteristics into consideration. (Presence of crystal deposits when chemical liquids dry, effect on solenoid valve component materials if chemical liquids evaporate, etc.)

■When using these components for a chemical liquid having a low boiling point, such as hexane, the chemical liquid in the solenoid valve could evaporate due to heating of the coils, and cause bubbles, etc., in the solenoid valve and pipe. Use an AMD type air operated valve for chemical liquids if formation of bubbles, etc., poses a problem.

■When using the solenoid valve with negative pressure, such as for dispensing control, air may be sucked into the solenoid valve depending on the type of chemical liquid, type of connection fitting, and type of tube, etc. Check carefully before starting use.

■Use a smoothed power source with sufficient margin against power consumption for the power supply.

■For the DC type, use a high-capacity power supply. A full-wave or half wave rectified bridge is affected by ripples, so always use a stabilized power supply.

■Securely insert the tube to the prescribed position.

■Depending on the working fluid, the silicone tube may not be resistant to chemical liquids, or chemical liquids may adhere to it. Check this before use.

■Do not expose the coil to water.

■If a silicone tube is left attached for long periods, it could stick and prevent the tube from opening. If the tube sticks, replace the tube or un-stick the tube by applying pressure or by hand.

■Do not apply higher pressure than the working pressure. Otherwise the tube may dislocate.

■Working pressure and proof pressure

- Working pressure and proof pressure are as listed below. Carefully select the model with full understanding.
- Working pressure: Pressure at which the valve opens and closes normally.
- Proof pressure: Pressure which the valve withstands without any decrease in its functions or performance.
- The catalog specifications are satisfied, even when pressure exceeding the working pressure is temporarily applied, upon return to the working pressure.

For precautions regarding Installation and Adjustment, Use and Maintenance, CKD components product website (https://www.ckd.co.jp/kiki/en/) → "Model No.→ Instruction manual for details.

MEMO

SWD / MWD
SWD-T
SPD
HYA
HYN