

# AIR PINCH VALVE

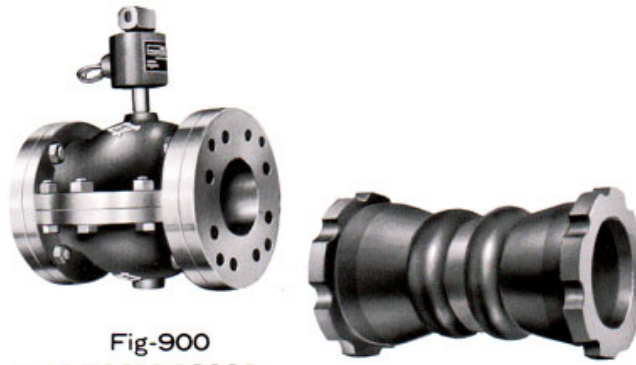


Fig-900

## FURUKAWA AIR PINCH VALVE

### FEATURES

1. Two ring-shaped expansions have been formed in the central area of the rubber pipe so as to increase durability and dynamic stability.
2. A specially developed flange reinforces the flange area of the rubber pipe, thus preventing unreasonable stress accumulating in that area.
3. Maximum operating pressure of  $7\text{kg/cm}^2$  can be applied. (Fluid pressure plus 1 to  $1.5\text{kg/cm}^2$ )

### OPERATION

- FURUKAWA Air Pinch Valve has been developed in order to allow or stop the flow of fluid by closing an elastic rubber pipe incorporated in a cast iron casing.
- FURUKAWA Air Pinch Valve can be operated easily by shifting a switch-over valve manually or by other proper means such as a solenoid. The air pinch valve allows air to enter into the empty space between the casing and the rubber pipe through the flow hole which is provided in the center of the casing. The rubber pipe is closed by this air flow. (Reference is made to a separate diagram for operating condition of the rubber pipe.)
- The weak point of traditional air pinch valves is said to be serious damage to the rubber pipe at the flange area. This weak point has been eliminated by developing a special actions. Durability for years of use has been built into FURUKAWA's rubber pipe valve.

### STRUCTURE OF RUBBER PIPE (RUBBER PIPE IS THE MOST IMPORTANT COMPONENT OF A PINCH VALVE.)

- The rubber pipe incorporated in FURUKAWA Pinch Valve has been developed as a result of joint research by FURUKAWA KOGYO CO., LTD. and KUREHA RUBBER INDUSTRY CO., LTD by using pure-blended natural rubber.
- It has been known that traditional rubber pipes reinforced with cloth results in a weak point when the reinforcing cloth has been expanded beyond its elastic limit, thus causing breakage or peeling of the rubber pipes. Such a weak point has been eliminated by using the specially developed rubber for the FURUKAWA pipe.
- Two ring-shaped expanded areas are formed in order to ensure durability and dynamic stability. This rubber pipe has been designed so uniquely that it promotes easy, durable and exact operation of the air pinch valve for an outstanding length of time.