

# Shutter Valve for the Difficult Applications

## MH Valve

2.7

### Concept

MH Koltek valve is a manually or pneumatically operated valve, designed for use in the food, chemical, pharmaceutical and other industries where valves of sanitary design are needed.

### Working principle

A PTFE shutter is operated by means of a handle or an actuator. A spring system presses the shutter against the inside cylindrical surface of the valve body thus ensuring complete tightness.

The air actuated valve can be fitted with ThinkTop® or a laterally fitted indication unit for remote indication of the valve position. The manually operated valve can be fitted with laterally indication units (used for LKLA actuators). The actuator for the valve comes in two versions, single acting or double acting. The single acting actuator operates with one main piston whereas the double acting actuator operates with two main pistons.

### Standard Design

The valve consist of a rigid body with an internal cylindrical bore and 2 or 3 ports for pipe connection. The two lids have guide rings or bearings for an internal shaft which supports and positions the shutter. The stainless steel handle or the actuator is fitted to turn the shaft.

The actuator consists of a system of cylinders and one or two main pistons interconnected with a toothed bar which interacts with a gear wheel on the valve shaft. The system is insensitive to pressure shocks in the valve.

### TECHNICAL DATA

#### Temperature

Max. temperature: . . . . . 110°C

#### Pressure

Max. pressure against shutter: . . . . . 300 kPa (3 bar)

Max. pressure behind shutter: . . . . . 1000 kPa (10 bar)

Air pressure for actuator: . . . . . Max. 800 kPa (8 bar)  
Min. 500 kPa (5 bar)

### Air Connections

#### Compressed air:

R 1/8" (BSP), internal thread



### PHYSICAL DATA

#### Materials

Product wetted steel parts: . . . . . 1.4404 (316L.)

Product wetted seals: . . . . . Shutter in PTFE  
EPDM

Actuator seals: . . . . . NBR

