

# DIAPHRAGM VALVES

SANITARY EQUIPMENT



## REMAX ENERGY

### Pneumatic Diaphragm Valve

#### Model: RPDV01

#### Description

The diaphragm valve is a special type of shut-off valve whose opening and closing member is a diaphragm made of a soft material to separate the valve body cavity from the bonnet cavity and the driving member. RPDV01 series is a pneumatic type sanitary diaphragm valve with compact design.

The valve is excellent for flow control as well as for open/close duties. It is mainly used for sampling biological system, laboratory engineering, etc.

Sterile hygienic diaphragm valve is operated either Remotely by a pneumatic actuator made of stainless Steel. It is widely used in the sanitary

industries, dairy products, beverages and other food industries as well as in the pharmaceutical field of aseptic conditions. It is recommended to install at 30 degrees, which is beneficial to the complete discharge of the valve after cleaning, and it is not easy to cause the liquid to stay

inside the valve. The diaphragm separates the lower valve body cavity from the inner cavity of the upper valve cover, so that the valve stem, the valve flap and the like located above the diaphragm are not corroded by the medium, the packing sealing structure is omitted. The compressed air is used to drive the drive screw to move the spool up and down, and at the same time pull the diaphragm up and down to close and open. This model has adjustable minimum flow regulator.



## Features:

**Size:** DN8 – DN50

**PMA=16 bar , PMO=12 bar , TMA=220 °c , TMO=200 °c**

**Inside treatment:** Ra 16-32µin (0.4-0.8µm), Ra 25 (0.5µm) is the default.

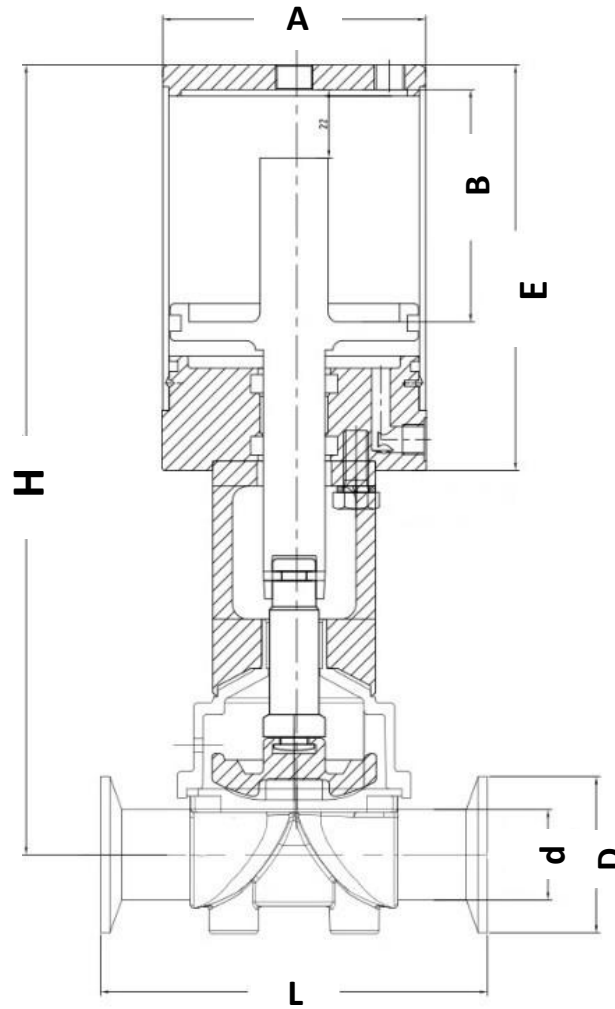
**Connection:** clamp , Buttweld , other on request

**Applicable medium:** steam , water , Alcohol , fuel , neutral gas or liquid

Part	Material
Body	AISI 316/316L
Diaphragm	EPDM/PTFE / EPDM+PTFE
Wetted part	Polished stainless steel 316/316L
Actuator	Plastic / stainless steel

One of the effective methods known for removal of minor surface abnormalities after mechanical polishing and to improve the finish on a product is the electropolish process. Electropolishing reduces minor scratches and other surface imperfections by removing metal from the product. The process creates a smoother and more level surface finish which cannot be achieved by mechanical polishing alone. The end result is the reduction of such imperfections from the product thus making them easier to be cleaned and lessens the potential for corrosion or contamination to occur.

**Dimensions:**



Size	H(mm)	L(mm)	E(mm)	d(mm)	D(mm)	A(mm)	B(mm)
1/2"	245	72	130	16	25.4	85	75
3/4"	251	108	130	22	34	85	75
1"	255	125	130	29.3	50.5	85	75

