

**Pesflow**  
ONE STOP INDUSTRIAL VALVE SOLUTIONS

**TUVINDIA**



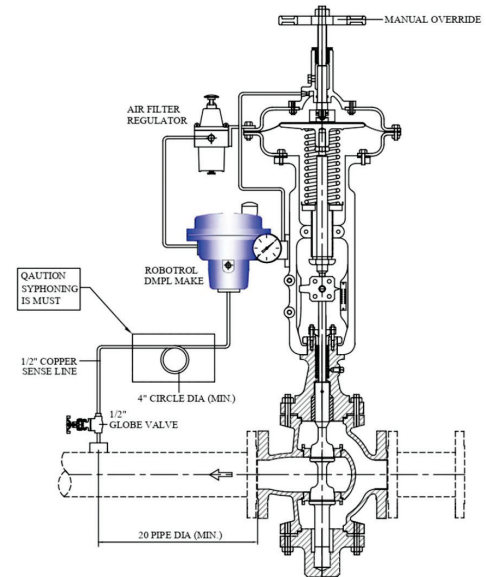
# ROBOTROL

Pin-point pressure, every time.

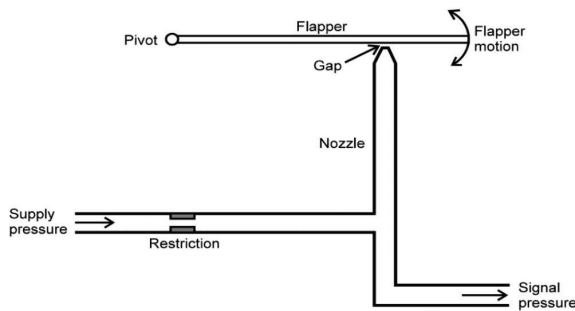
[www.perfectengineeringservices.co.in](http://www.perfectengineeringservices.co.in)

## ADVANTAGES

- Latest technology in control valves.
- This device is completely mechanical as only air goes into the controlling element.
- Steam does not enter in the controlling element at all.
- It is very robust.
- It is almost maintenance free as the elements involved in this are mechanical and hence last longer.
- As a valve and system it cannot be messed with by the staff.
- It has the highest accuracy and it has very high turn-down ratio. (1:40 for flow & 1:20 for Pressure)



Flow Diagram with part names & connections



## Flapper - Nozzle system

The Robotrol works on a flapper-nozzle principle. A regulated supply of pressure, usually 20 psig, provides a source of air through the restriction. The nozzle is open at the end where the gap exists between the nozzle and flapper, and air escapes in this region. If the flapper moves down and closes off the nozzle opening so that no air leaks, the signal pressure will rise to the supply pressure. As the flapper moves away, the signal pressure will drop because of leaking of the leaking air. Finally, when the flapper is far away, the pressure will stabilize at some value determined by the maximum leak through the nozzle.

## Address

Head Office:

**Perfect Engineering Services**

C-601, Badhwar Apartments, Plot No.3, Sector-6, Dwarka, New Delhi-110075

Ph: +91-9350216735 | +91-9811557391 | + 91 8104272133

vksood@perfect.org.in | solutions@perfect.org.in



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www.perfectengineeringservices.co.in

