

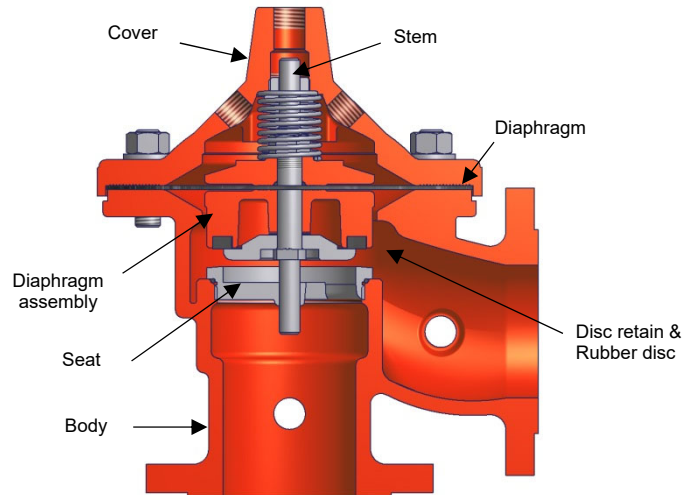
► Simple, Reliable and Accurate

► CLA-VAL SERIES 100 Main Function

The CLA-VAL 100-01 HYTROL Valve is a hydraulically operated, diaphragm actuated, globe or angle pattern valve.

It consists of three major components: body, diaphragm assembly and cover. The diaphragm assembly is the only moving part, guided top and bottom by a precision machined stem. The disc retainer and rubber disc form a drip-tight seal with the renewable seat when pressure is applied above the diaphragm (cover chamber).

The CLA-VAL 100-01 is the basic valve used in nearly in all CLA-VAL Automatic Control Valves.



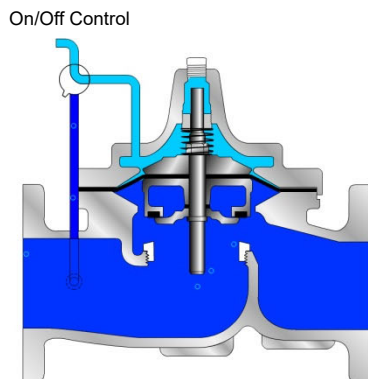
There are 3 HYTROL body types:

NGE: New Globe Execution

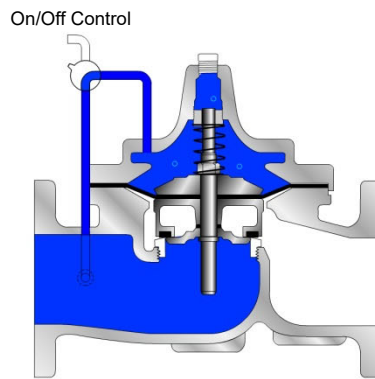
GE: Globe Execution

AE: Angle Execution

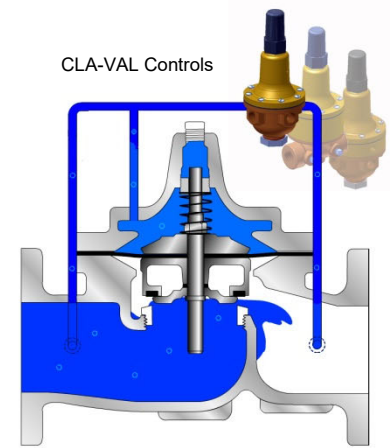
► CLA-VAL 100-01 Principle of Operation (illustration type GE)



Full Open Operation:
When pressure in the cover chamber is relieved to a lower pressure or to atmosphere, the pressure inlet opens the valve.



Tight Closing Operation:
When pressure from the inlet pressure is applied to the cover chamber, the valve closes drip-tight.



Modulating Control:
The valve is pressure operating balanced. The CLA-VAL "Modulating" Controls will allow the valve to automatically compensate for pressure changes.

► Usual Main Valves

| | |
|------------------------------------|----------|
| HYTROL Main Valve / HYTROL NGE-316 | 100-01 |
| TYTAN Main Valve | 100-01 |
| HYTROL Auxiliary Valve | 000130TT |
| ROLL SEAL Main Valve | 100-42 |
| DELUGE Main Valve | 100G |

► More Information

| | |
|--|------------|
| <input checked="" type="checkbox"/> Component Datasheet | Sheet # |
| <input checked="" type="checkbox"/> Quick Valve Selection | HYA001TT |
| <input checked="" type="checkbox"/> Dimensions | 000141DE |
| <input checked="" type="checkbox"/> Pressure Ratings & Materials | 000122DE-3 |
| | 000139DE |

Other Functions: Please Contact CLA-VAL