

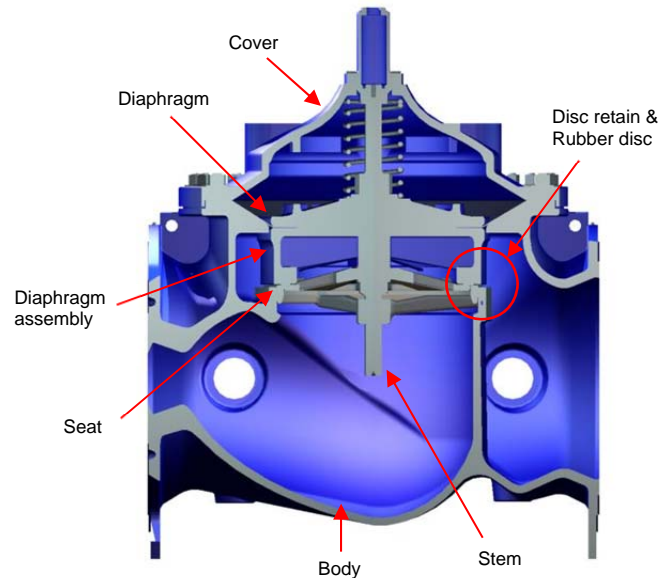
### Simple, Reliable and Accurate

#### CLA-VAL SERIES 100 Main Function

The CLA-VAL 100-01 TYTAN Valve is a hydraulically operated, diaphragm actuated, globe 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).

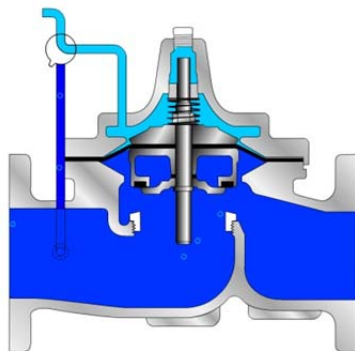
The CLA-VAL 100-01 is the main valve used in nearly all CLA-VAL TYTAN Automatic Control Valves.

Nominale pressure:  
Standard: PN 10 and PN 16  
On request: PN 25, PN 40, ANSI 150 - 300  
TYTAN norms:  
ISO and ANSI



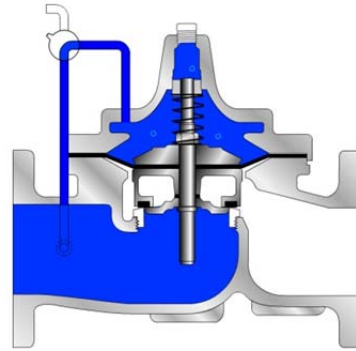
#### CLA-VAL 100-01 Principle of Operation

On/Off Control



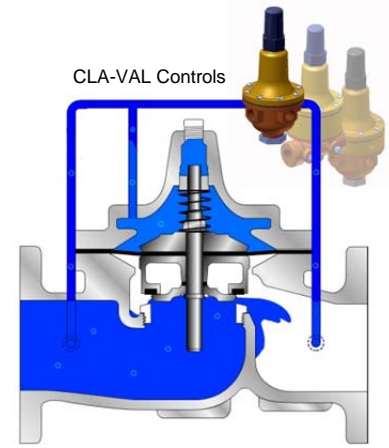
**Full Open Operation:**  
When pressure in the cover chamber is relieved to a lower pressure zone or to atmosphere, the pressure inlet opens the valve.

On/Off Control



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

CLA-VAL Controls



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

#### More Information

Documents #		
Type	Size	No.
Component Datasheet	TYTAN-S (DN 600 to DN 800)	TYS001TT
Component Datasheet	TYTAN-M (DN 900 to DN 1000)	TYM001TT
Component Datasheet	TYTAN-L (DN 1200 to DN 1400)	TYL001TT
Valve Selection	TYTAN-S / -M / -L	000126DE
Dimensions	TYTAN-S / -M / -L	000125DE
Pressure Ratings & Materials	TYTAN-S / -M / -L	000127DE

#### Other Functions: Please Contact CLA-VAL

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