

Main Valve HYTROL Low Flow System



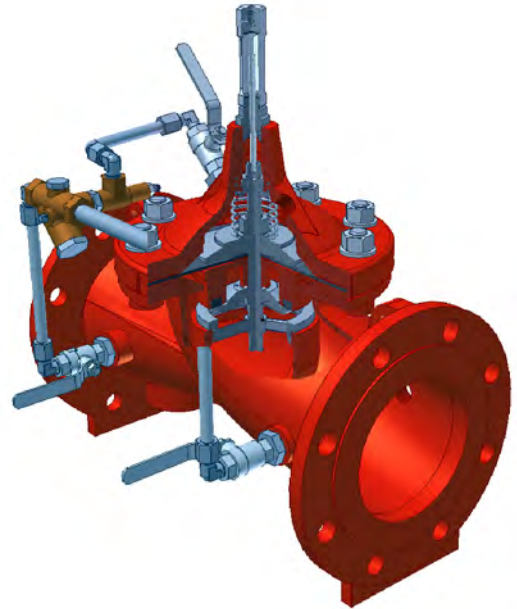
Simple, Reliable and Accurate

- CLA-VAL SERIES 100 : Main Function

The CLA-VAL 100-LFS Hytrol Valve integrates in its conventional diaphragm assembly a device "Low Flow" 100-LFS.

The 100-LFS device permits any automatic valve CLA-VAL to regulate precisely, smoothly any prescribed set value within its complete rate of flow range, in particular at low demand and without performance loss.

The CLA-VAL 100-LFS Hytrol Valve is mainly used in distribution nets with wide and high rate of flow changes.



There are 3 HYTROL types :

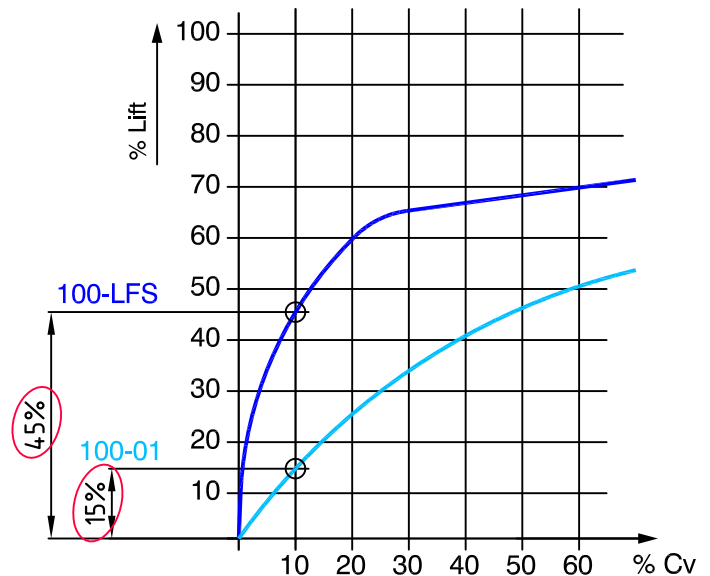
- NGE : New Globe Execution
- GE : Globe Execution
- AE : Angle Execution

- CLA-VAL 100-LFS : Principle of Operation

The high daily demand variations create severe problems of regulation. The rate of flow changes generate micro-surges within the networks, responsible of significant leaks during the low demand period. These problems are not properly solved either by a low flow by-pass or a V-port system, since both solutions do not provide a progressive and smooth regulation and reduce highly the main valve performance. (A V-port system restricts over 30% the standard valve capacity).

The "Low Flow" device CLA-VAL 100-LFS is specifically designed for controlling precisely and progressively any prescribed set value in any water networks, from the lowest demand up to the peak demand, without decreasing the valve performance at high rate of flow.

A 10% Cv-value generates a lift of 15% in a conventional valve CLA-VAL 100-01 against a lift of 45% in a "Low Flow" CLA-VAL 100-LFS, which insures therefore an accurate operation, without decreasing the performance of the valve at high flow.



- Usual Main Valves

HYTROL Valve / HYTROL NGE-316	100-01
TYTAN Valve	100-01
Auxilliary HYTROL Valve	000130TT
Roll Seal Main Valve	100-42
Deluge Main Valve	100G

- More Information (CLA-VAL 100-01) Sheet #

<input checked="" type="checkbox"/> Dimensions	000122DE
<input checked="" type="checkbox"/> Pressure Ratings & Materials	000123DE

Other Functions : Please Contact CLA-VAL

CLA-VAL

Switzerland

TEL : +41 (0) 21 643 1555 FAX : +41 (0) 21 643 1550
 Web : www.cla-val.ch E-mail : cla-val@cla-val.ch

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NUM.	HYTLFS DE
REV.	A 02/04
QUA.	HvB 02/04