



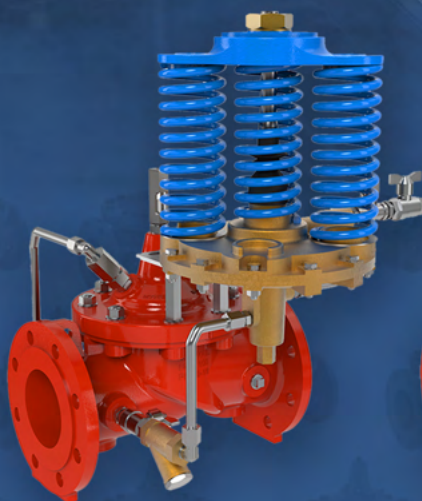
**SEAPRO<sup>SA</sup>**  
CONTROL VALVE SPECIALIST



# Catalogue



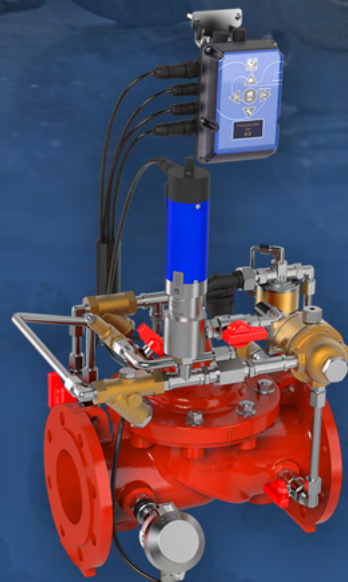
Pressure  
Reducing Valves



Altitude & Level  
Control



Pump Control  
Valves



Electronic Control  
Valve



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waterworks



fire protection

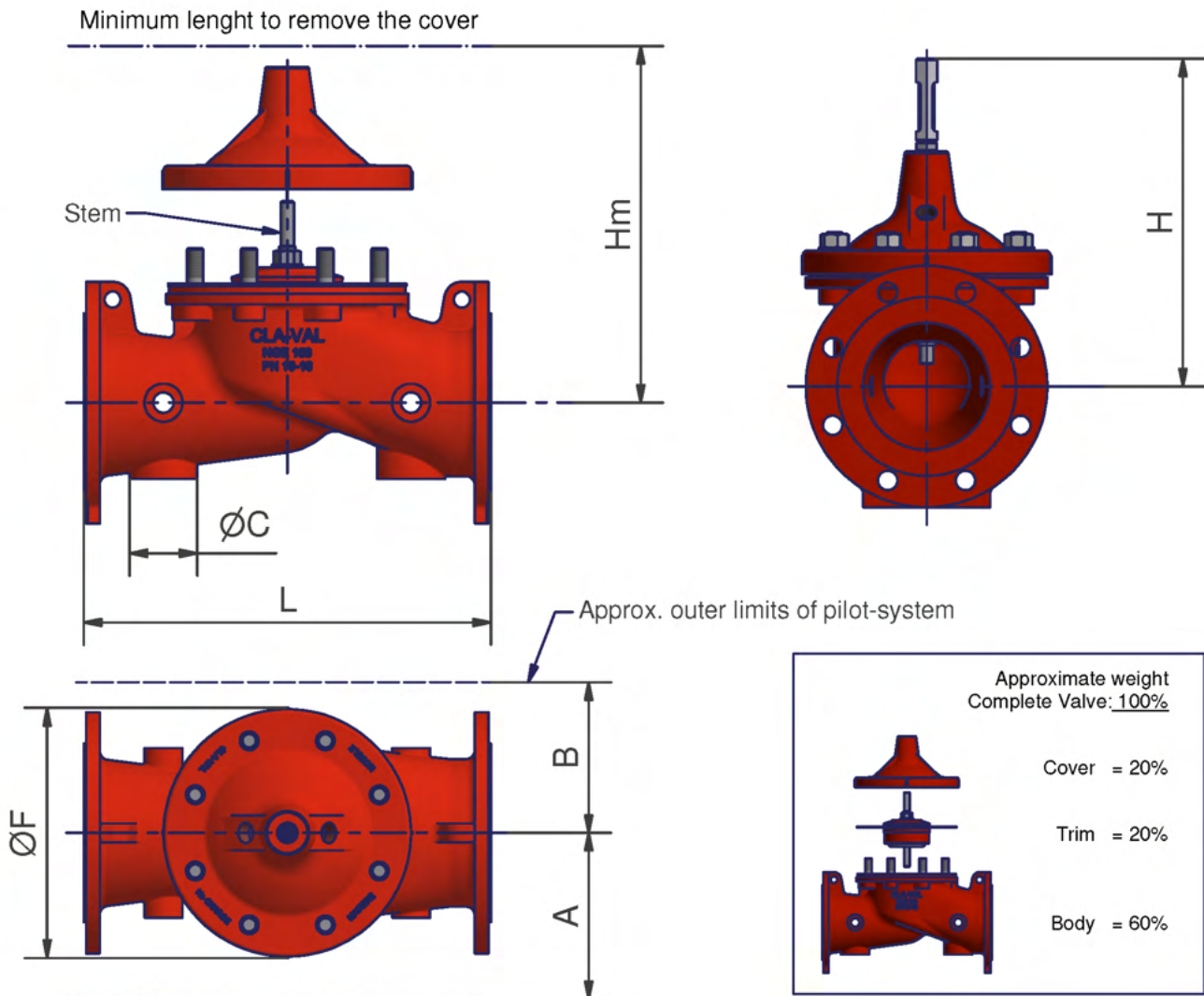


mining



field services





### ► Technical Data:

Flanged (mm)	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300	DN 350	DN 400	DN 450	DN 500	DN 600
L	230	290	310	350	400	480	600	730	850	980	1100	1200	1250	1450
F	145	170	170	235	295	295	400	510	600	712	712	712	900	900
H	220	250	260	305	395	410	490	590	730	850	850	850	1030	1030
H1 (PN10)	82.5	93	100	110	125	142.5	170	200	227.5	260	290	325	370	430
H1 (PN16)	82.5	93	100	110	125	142.5	170	200	227.5	260	290	325	370	430
H1 (PN25)	82.5	93	100	117.5	135	150	188	225	242.5	277.5	310	335	370	430
Hm	255	290	300	390	470	480	585	700	890	1030	1030	1030	1310	1310
A	200	210	210	220	235	250	270	310	365	400	425	435	520	520
B	145	150	150	160	165	165	220	255	345	385	380	400	460	470
øC	45	60	60	60	60	80	80	80	80	80	80	80	120	120
Weight (Kg)	15	20	25	40	60	70	120	190	350	540	620	650	980	1080

### ► Hydraulic Data:

Flanged (mm)	DN 50	DN 65	DN 80	DN 100	DN 125	DN 150	DN 200	DN 250	DN 300	DN 350	DN 400	DN 450	DN 500	DN 600
Kv (m <sup>3</sup> /h)	32	43	58	119	162	209	479	799	1292	1638	1789	2070	3049	3222
Cv (l/s)	9	12	16	33	45	58	133	222	359	455	497	575	847	895

Kv or Cv = m<sup>3</sup>/h or l/s @ 100kPa (1 bar) head loss with 15°C water (valve totally open).

### ► 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).

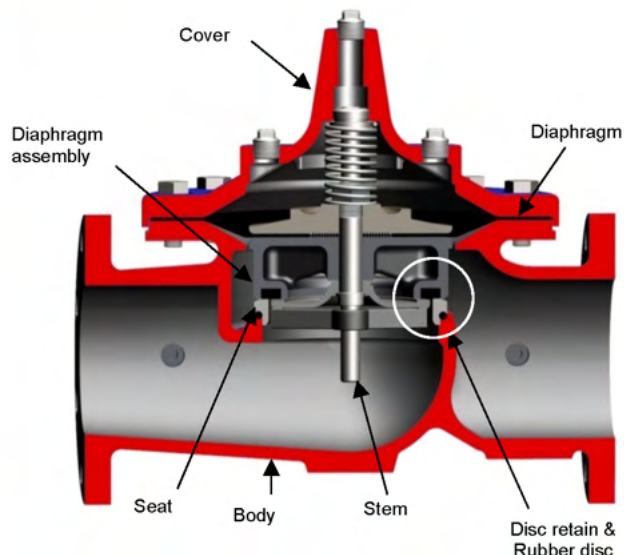
The CLA-VAL 100-01 is the basic valve used in nearly in all CLA-VAL Automatic Control Valves.

There are 3 HYTROL body types:

NGE: New Globe Execution

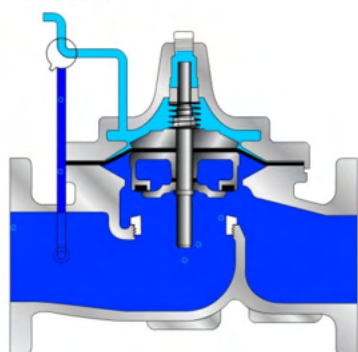
GE: Globe Execution

AE: Angle Execution



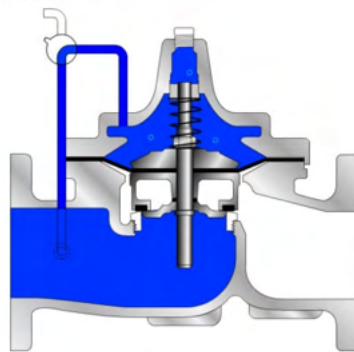
#### ► CLA-VAL 100-01 Principle of Operation (illustration type GE)

On/Off Control



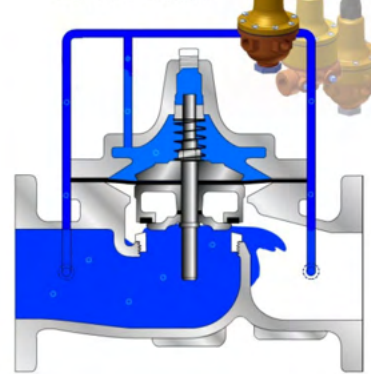
**Full Open Operation:**  
When pressure in the cover chamber is relieved to a lower pressure or to atmosphere, the pressure inlet opens the valve.

On/Off Control



**Tight Closing Operation:**  
When pressure from the inlet 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.

#### ► Usual Main Valves

HYTROL Main Valve / HYTROL NGE-316

TYTAN Main Valve

HYTROL Auxiliary Valve

ROLL SEAL Main Valve

DELUGE Main Valve

100-01

100-01

000130TT

100-42

100G

#### ► More Information

- ☒ Component Datasheet
- ☒ Quick Valve Selection
- ☒ Dimensions
- ☒ Pressure Ratings & Materials

Sheet #

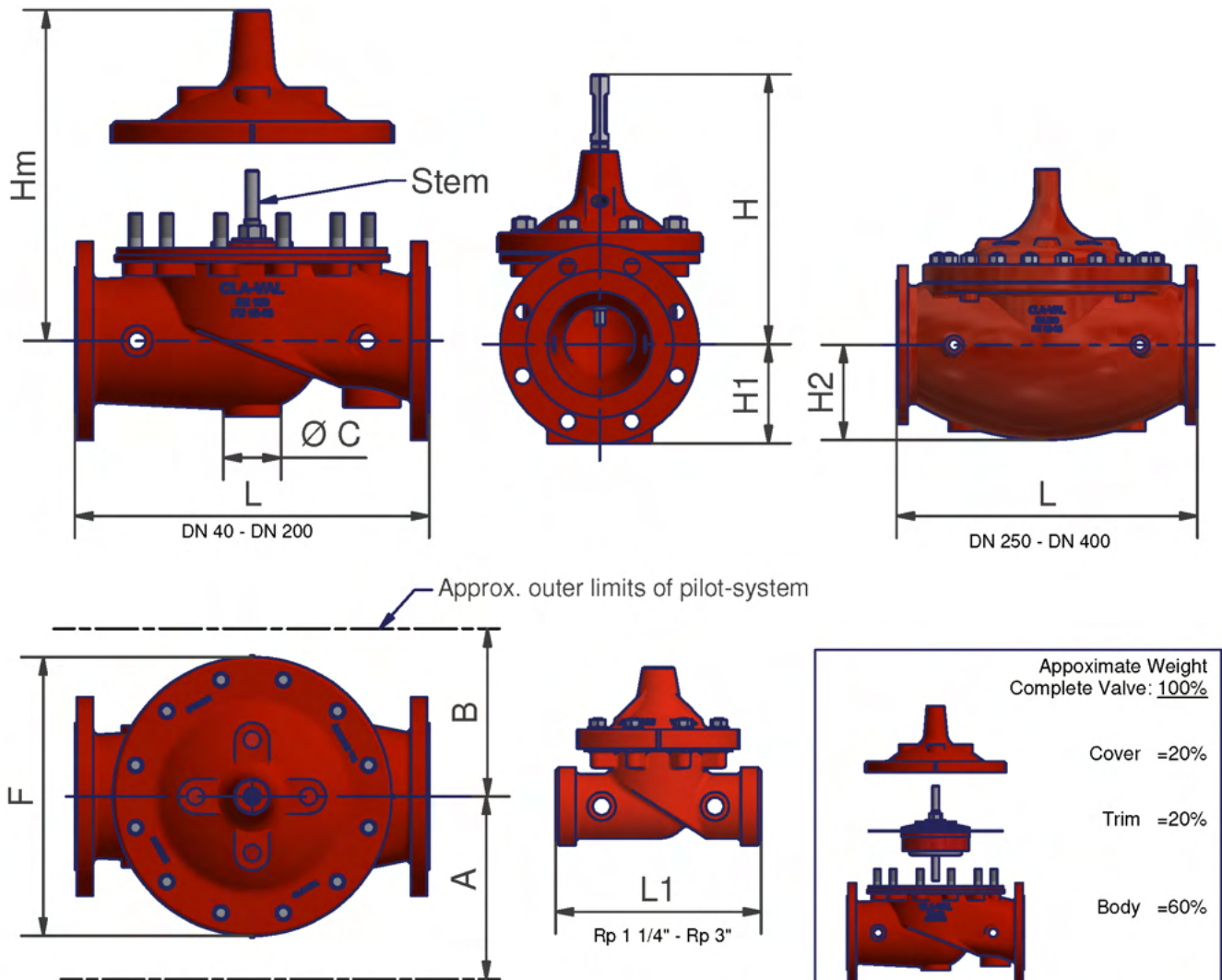
HYG001TT

000140DE

000122DE-2

000138DE





### ► Technical Data:

Flanged (mm)	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300	DN 400
Screw (in)	1 1/4"	1 1/2"	2"	2 1/2"	3"	-	-	-	-	-	-
L	215	215	254	280	305	381	508	645	756	864	1051
L1	184.5	184.5	238	280	318	-	-	-	-	-	-
F	145	145	170	205	235	295	400	510	600	712	900
H	191	191	215	245	260	345	415	495	595	695	850
H1 (PN 10-16)	-	75	82.5	93	100	110	142.5	170	-	-	-
H1 (PN 25)	-	75	82.5	93	100	117.5	150	180	-	-	-
H2	-	-	-	-	-	-	-	-	236	274	395
Hm	252	252	285	320	345	450	540	645	780	905	1120
A	150	150	150	165	203	216	230	285	330	370	475
B	100	100	100	115	127	152	205	260	305	362	450
$\varnothing C$	-	-	47	60	60	82	82	82	82	-	-
Weight (Kg)	13	13	20	25	30	50	95	170	310	470	970

### ► Hydraulic Data:

Flanged (mm)	DN 32	DN 40	DN 50	DN 65	DN 80	DN 100	DN 150	DN 200	DN 250	DN 300	DN 400
Screw (in)	1 1/4"	1 1/2"	2"	2 1/2"	3"	-	-	-	-	-	-
Kv (m3/h)	26	28	47	72	101	173	400	666	1076	1490	2542
Cv (l/s)	7	8	13	20	28	48	111	185	299	414	706

Kv or Cv = m3/h or l/s @ 100kPa (1 bar) head loss with 15°C water (valve totally open).



### ► 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).

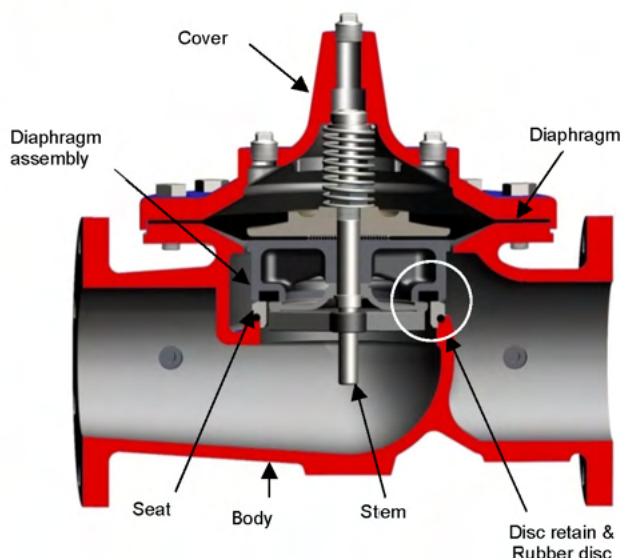
The CLA-VAL 100-01 is the basic valve used in nearly in all CLA-VAL Automatic Control Valves.

There are 3 HYTROL body types:

NGE: New Globe Execution

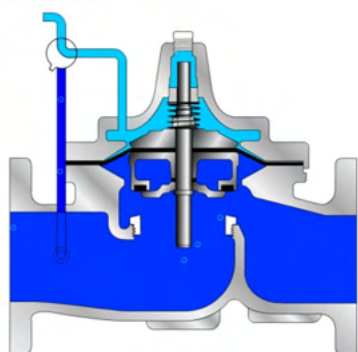
GE: Globe Execution

AE: Angle Execution



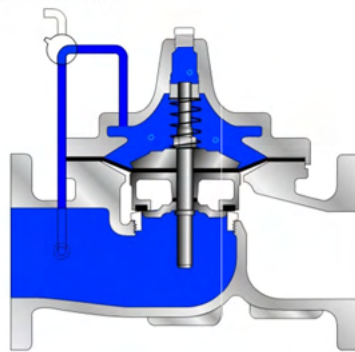
#### ► CLA-VAL 100-01 Principle of Operation

On/Off Control



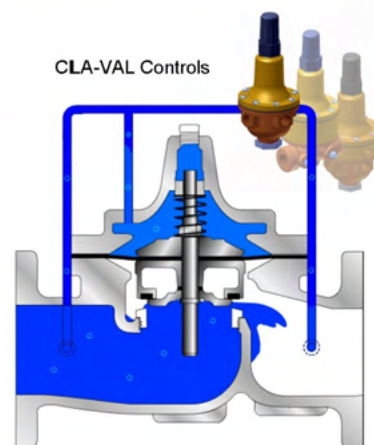
**Full Open Operation:**  
When pressure in the cover chamber is relieved to a lower pressure or to atmosphere, the pressure inlet opens the valve.

On/Off Control



**Tight Closing Operation:**  
When pressure from the inlet 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.

#### ► Usual Main Valves

HYTROL Main Valve / HYTROL NGE-316

TYTAN Main Valve

HYTROL Auxiliary Valve

ROLL SEAL Main Valve

DELUGE Main Valve

100-01

100-01

000130TT

100-42

100G

#### ► More Information

- ☒ Component Datasheet
- ☒ Quick Valve Selection
- ☒ Dimensions
- ☒ Pressure Ratings & Materials

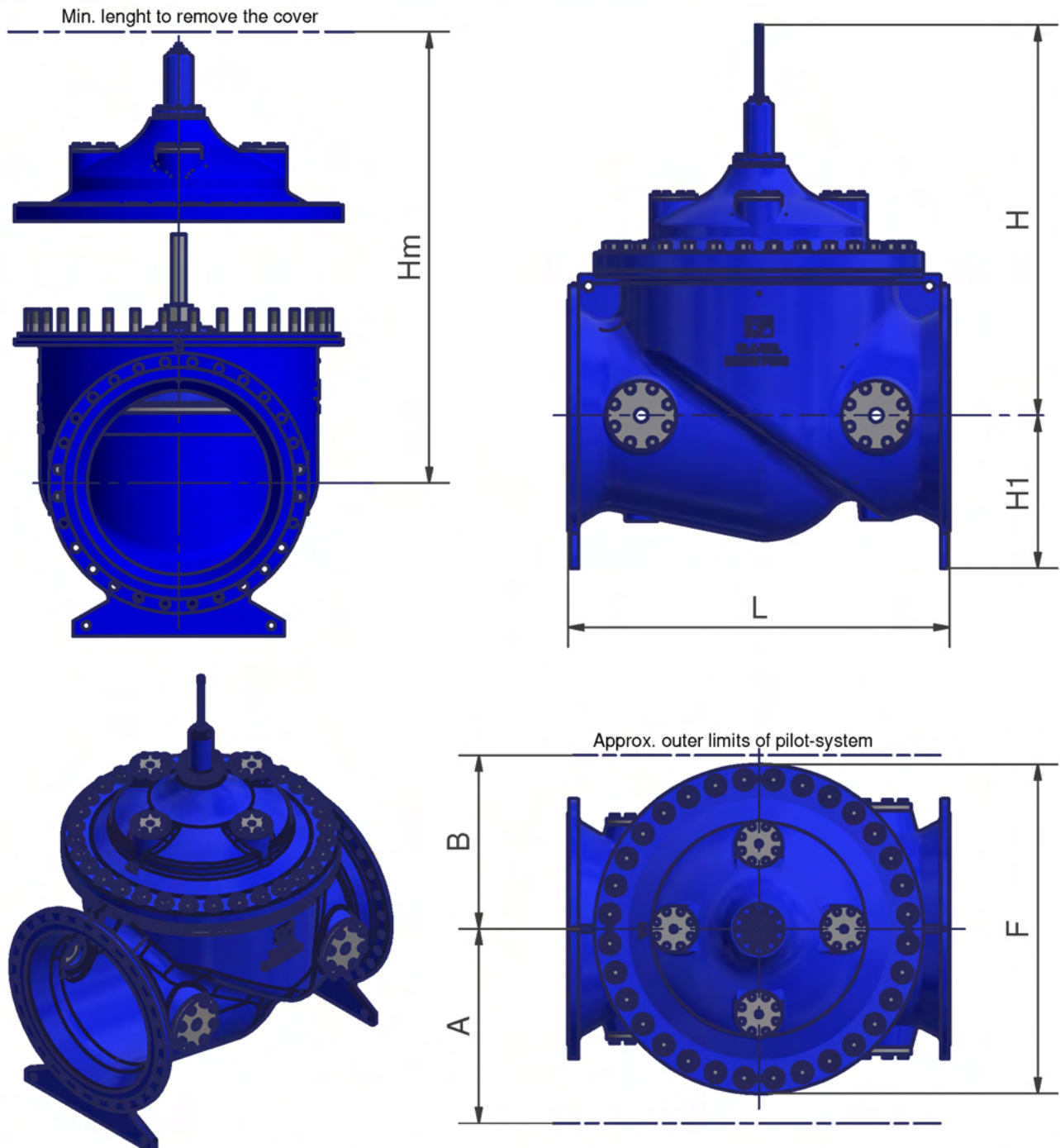
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HYN001TT

000121DE

000122DE-1

000123DE



Type	DN	L [mm]	H1 (PN 10-16) [mm]	H1 (PN 25) [mm]	H [mm]	Hm [mm]	Ø F [mm]	A [mm]	B [mm]	M [kg]	Kv [m <sup>3</sup> /h]	Cv [l/s]
TYTAN-S	DN 600	1450	430	430	1310	1685	1225	730	680	1950	5940	1650
	DN 700	1650	465	490						2100	6293	1748
	DN 800	1850	543	550						2350	6922	1923
TYTAN-M	DN 900	1650	660	660	1710	1930	1425	940	750	3200	9720	2700
	DN 1000	1700	699	699						3380	10440	2900
TYTAN-L	DN 1200	2235	864	n.a.	1830	2160	1680	1100	900	5750	13680	3800
	DN 1400	2500	965	n.a.						6160	14400	4000

The Kv or Cv = m<sup>3</sup>/h or l/s @ 100 kPa (1 bar) head loss with 15° C water (valve totally open).



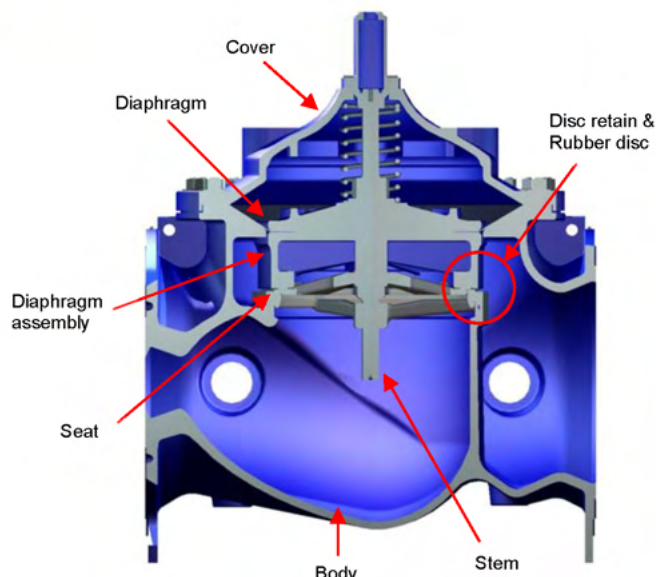
### ► Simple, Reliable and Accurate

#### ► 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).

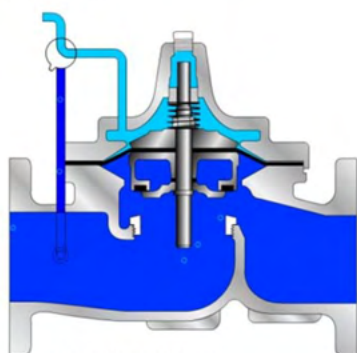
The CLA-VAL 100-01 is the main valve used in nearly all CLA-VAL TYTAN Automatic Control Valves.

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



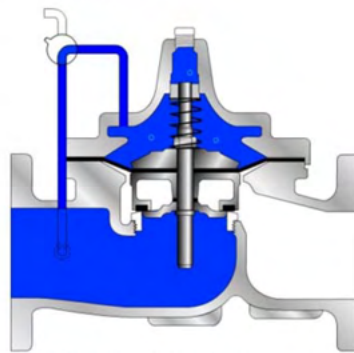
#### ► CLA-VAL 100-01 Principle of Operation

On/Off Control



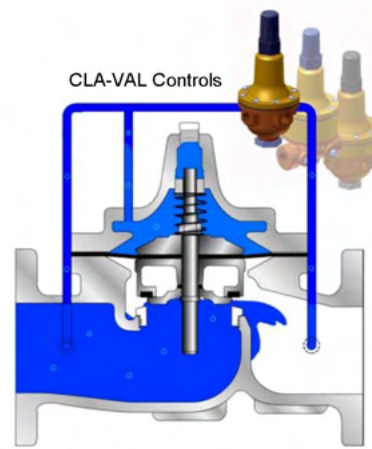
**Full Open Operation:**  
When pressure in the cover chamber is relieved to a lower pressure zone or to atmosphere, the pressure inlet opens the valve.

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

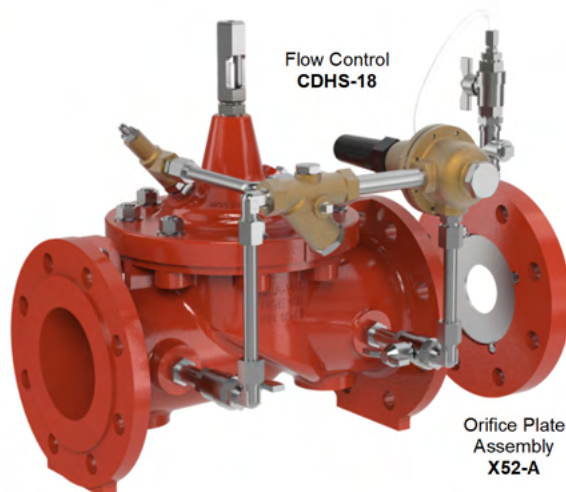
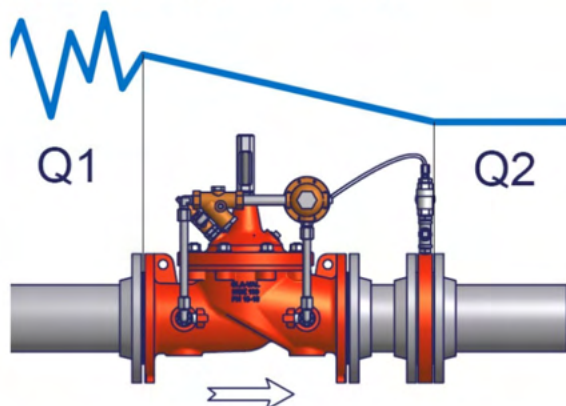
#### ► More Information

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

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIES 40 Main Function



The CLA-VAL SERIES 40 is used to accurately limit excessive flow to a preselected maximum rate (Flow Control) regardless of changes in pressure and/or varying inlet flow.

The Orifice Plate Assembly is included.

#### ► CLA-VAL 40-01 Typical Application

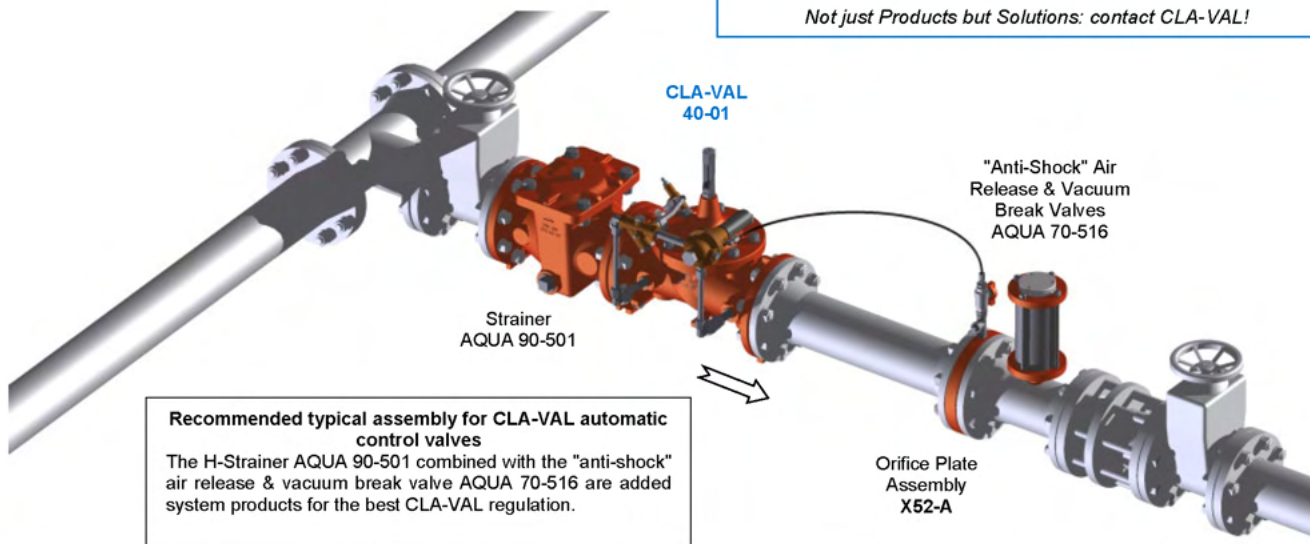
The CLA-VAL 40-01 is typically installed where water supply to a system (inlet to a reservoir, industrial users, etc.) must be limited to a maximum flow rate.

The Orifice Plate Assembly may be fixed directly to the main valve outlet flange, however, better control is obtained if it is installed in stabilized flow conditions downstream of the valve.

#### *Make your valve even Better!*

<i>LFS Option?</i>	<u>Control</u> Low flows or night flows
<i>KO Option?</i>	<u>Extend</u> valve life with Anti-Cavitation trim
<i>KG1 Option?</i>	<u>Use</u> stem cleaning for harsh water
<i>Maintenance?</i>	<u>Check</u> on periodic maintenance
<i>Environment?</i>	<u>Adapt</u> to high temperatures or frost risk
<i>Security?</i>	<u>Add</u> hydraulic safety back-up to your valve
<i>Protection?</i>	<u>Remove</u> excessive system overpressures
<i>Corrosion?</i>	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*

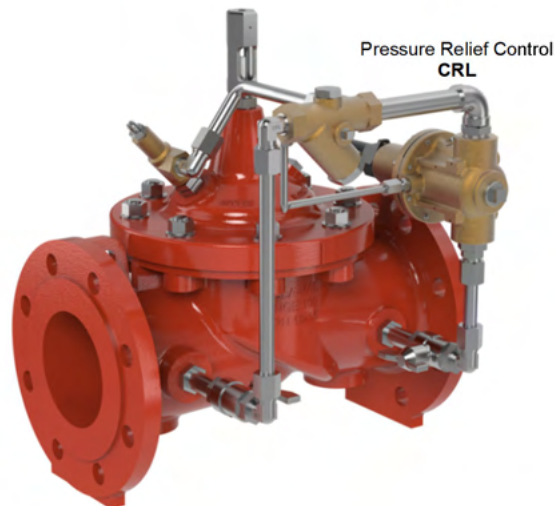
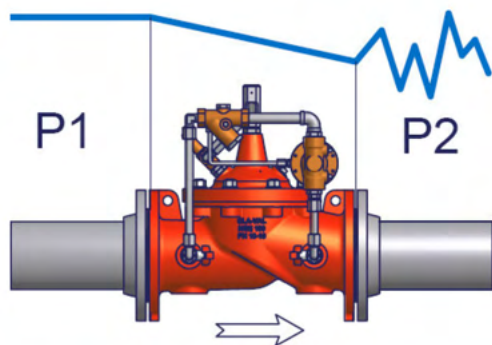




### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIES 50 Main Function



The CLA-VAL SERIES 50 Sustaining Valve accurately maintains a minimum preset (Pressure Relief Control) inlet pressure regardless of changing flow rate.

The CLA-VAL SERIES 50 Relief Valve opens fast to dissipate excess system pressure.

#### ► CLA-VAL 50-01 Typical Application

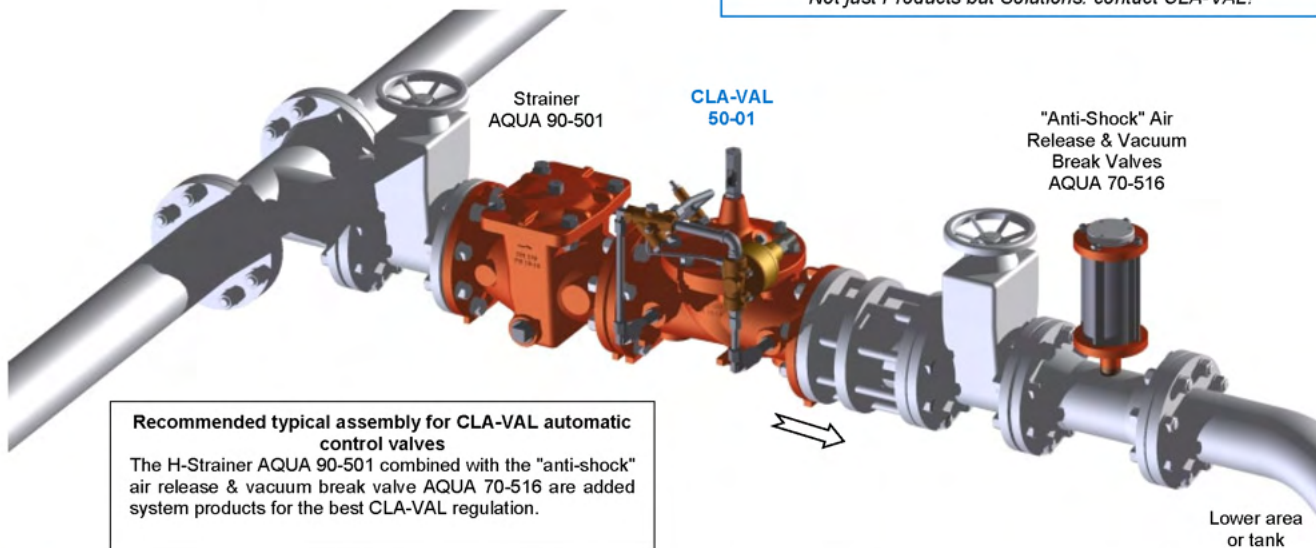
The CLA-VAL 50-01 (Sustaining Service) is typically installed in a line between an upper zone and a lower area of heavy demand or tank, the valve acts to maintain desired upstream pressure to prevent "robbing" of pressure in upper zone.

The CLA-VAL 50-01 (Relief Service) is installed to protect the system or installations against high pressure surges when pumps are shut down. The valve is installed near the pump on a line discharging to atmosphere.

#### *Make your valve even Better!*

<i>LFS Option?</i>	<i>Control</i> Low flows or night flows
<i>KO Option?</i>	<i>Extend</i> valve life with Anti-Cavitation trim
<i>KG1 Option?</i>	<i>Use</i> stem cleaning for harsh water
<i>Maintenance?</i>	<i>Check</i> on periodic maintenance
<i>Environment?</i>	<i>Adapt</i> to high temperatures or frost risk
<i>Security?</i>	<i>Add</i> hydraulic safety back-up to your valve
<i>Protection?</i>	<i>Remove</i> excessive system overpressures
<i>Corrosion?</i>	<i>Protect</i> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*



### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIES 60 Sequence of Operation

##### **Pump off:**

When the pump is off a Hydraulic Check Feature keeps the valve in a closed position.

##### **Starting sequence:**

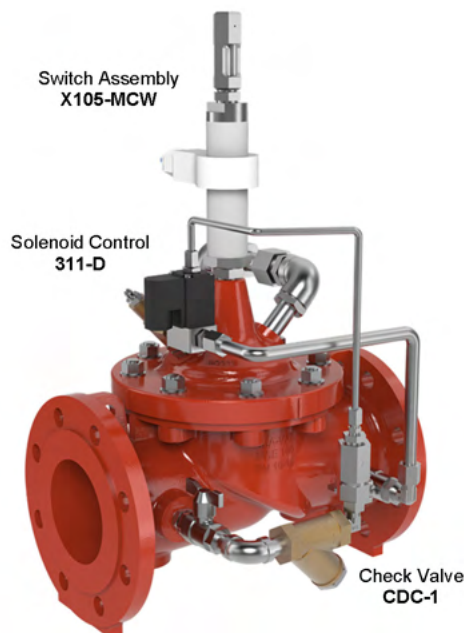
The pump starts against a closed valve. When the working pump rate is reached the Solenoid Control opens the valve.

##### **Stopping sequence:**

The pump requires a closed valve. The shut-off signal de-energizes the Solenoid Control to close the valve slowly. Meanwhile the pump is still working. When the valve is fully closed the Switch Assembly shuts the pump off.

##### **Emergency sequence:**

In case of a power failure ( $P2 > P1$ ), the Hydraulic Check Feature immediately closes the valve in order to protect the pump. The Pressure Relief Valve or Surge Anticipator Valve is usually combined with the pump control valve in order to dissipate surge pressures.

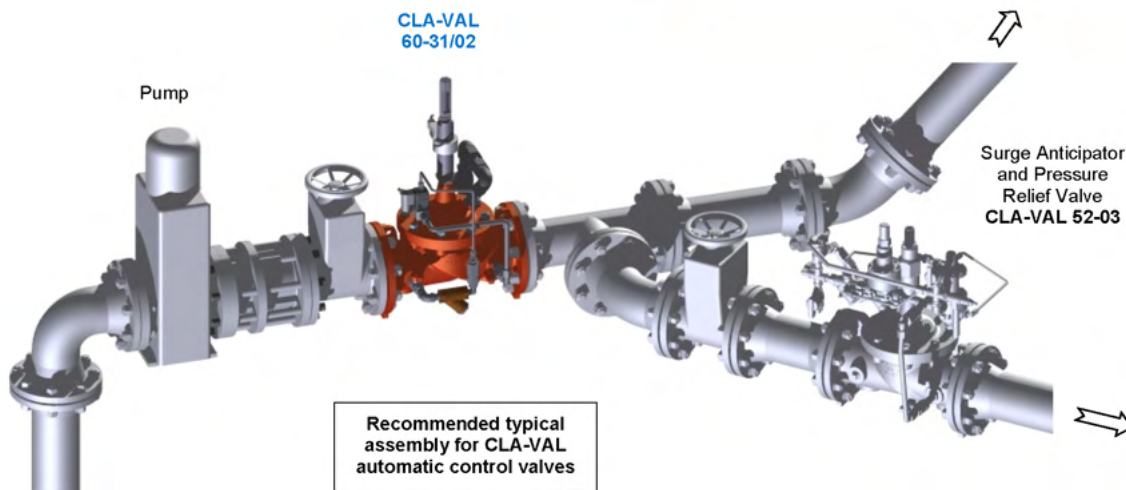


The CLA-VAL SERIES 60 Pump Control Valve is a pilot-operated valve designed for installation on the discharge of pumps to prevent pipeline surges caused by starting and stopping of pumps.

#### *Make your valve even Better!*

<i>LFS Option?</i>	<i>Control Low flows or night flows</i>
<i>KO Option?</i>	<i>Extend valve life with Anti-Cavitation trim</i>
<i>KG1 Option?</i>	<i>Use stem cleaning for harsh water</i>
<i>Maintenance?</i>	<i>Check on periodic maintenance</i>
<i>Environment?</i>	<i>Adapt to high temperatures or frost risk</i>
<i>Security?</i>	<i>Add hydraulic safety back-up to your valve</i>
<i>Protection?</i>	<i>Remove excessive system overpressures</i>
<i>Corrosion?</i>	<i>Protect your valve with upgraded materials</i>

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Recommended typical assembly for CLA-VAL automatic control valves





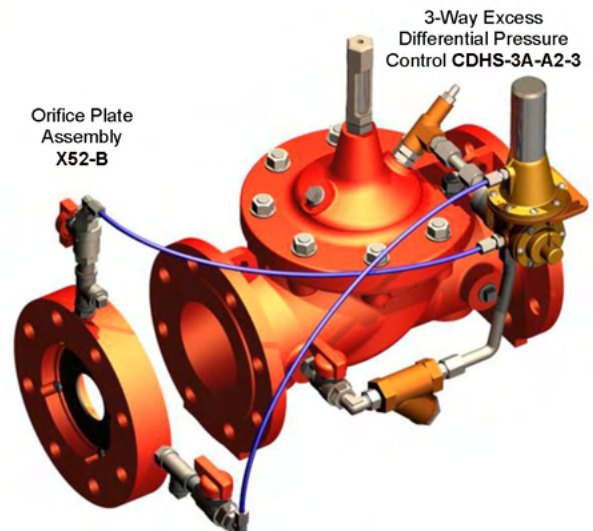
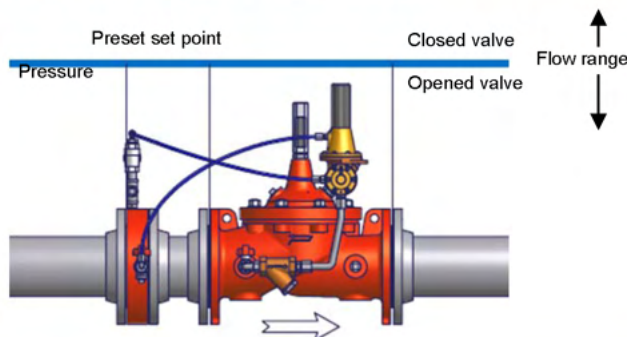
# CLA-VAL 85-01 & 85-03

## Excess Flow Shut-Off Valve

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

### ► CLA-VAL SERIES 85 Main Function



The CLA-VAL SERIES 85 is an excess flow or excess pressure shut-off valve. When flow or pressure reaches a preset value, the valve closes.

### ► CLA-VAL 85-01 & 85-03 Typical Application

The CLA-VAL 85-01 is equipped with an orifice plate upstream the valve. When flow increases, the differential pressure increases too. When maximum preset flow is reached, the valve closes. Below the preset flow, the valve remains fully open.

The CLA-VAL 85-01 is designed to work with high system pressure (>10 bar).

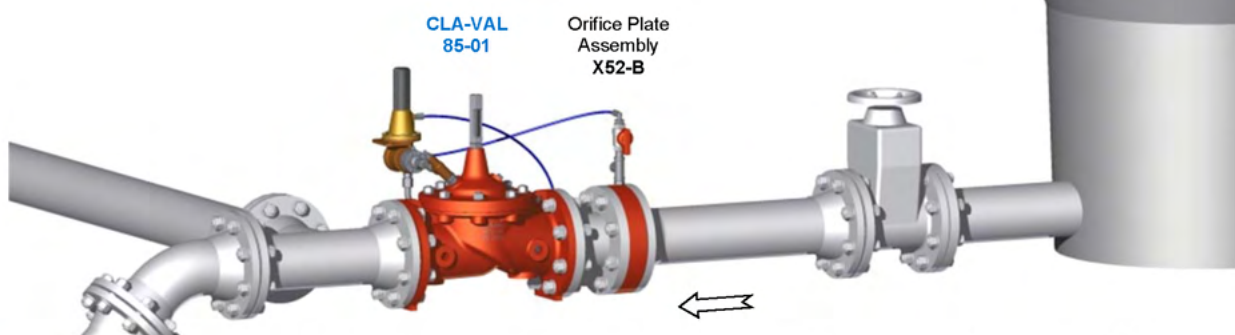
The CLA-VAL 85-03 is typically installed to prevent water losses and/or pressure damages in case of pipe breaks.

### *Make your valve even Better!*

<i>LFS Option?</i>	<u>Control</u> Low flows or night flows
<i>KO Option?</i>	<u>Extend</u> valve life with Anti-Cavitation trim
<i>KG1 Option?</i>	<u>Use</u> stem cleaning for harsh water
<i>Maintenance?</i>	<u>Check</u> on periodic maintenance
<i>Environment?</i>	<u>Adapt</u> to high temperatures or frost risk
<i>Security?</i>	<u>Add</u> hydraulic safety back-up to your valve
<i>Protection?</i>	<u>Remove</u> excessive system overpressures
<i>Corrosion?</i>	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*

Recommended typical assembly for CLA-VAL automatic control valves



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waterworks



fire protection



mining

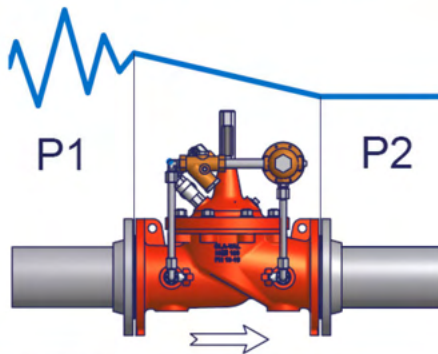


field services

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

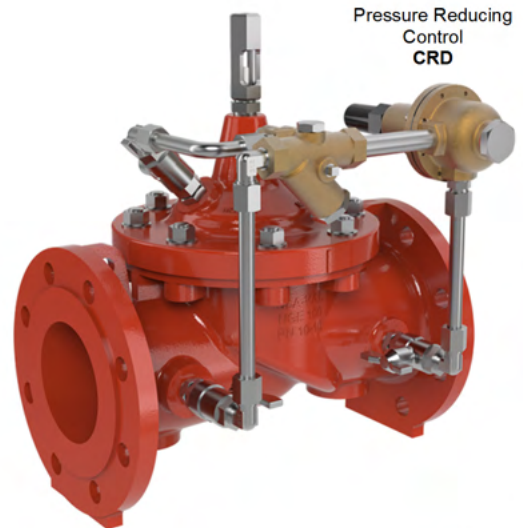
#### ► CLA-VAL SERIES 90 Main Function



#### ► CLA-VAL 90-01 Typical Application

The CLA-VAL 90-01 is designed to hold downstream pressure to a pre-determined limit.

Typical Pressure Reducing Valve station using two valves in parallel to handle high flows and low flows.

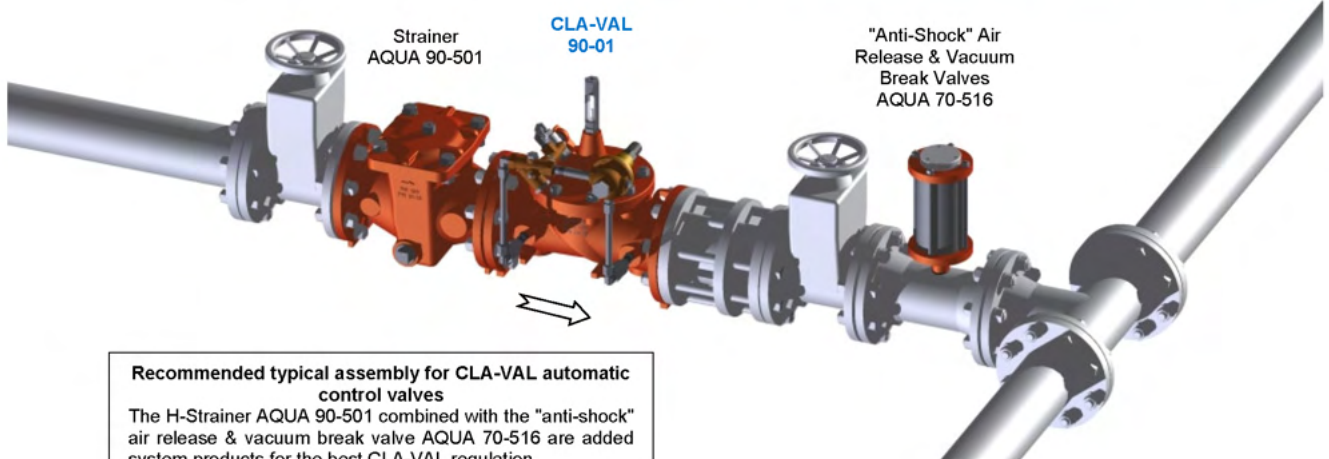


The CLA-VAL SERIES 90 reduces a higher inlet pressure to a constant downstream pressure (Pressure Reducing Control) regardless of changing flow rate and/or varying inlet pressure.

#### *Make your valve even Better!*

<i>LFS Option?</i>	<u>Control</u> Low flows or night flows
<i>KO Option?</i>	<u>Extend</u> valve life with Anti-Cavitation trim
<i>KG1 Option?</i>	<u>Use</u> stem cleaning for harsh water
<i>Maintenance?</i>	<u>Check</u> on periodic maintenance
<i>Environment?</i>	<u>Adapt</u> to high temperatures or frost risk
<i>Security?</i>	<u>Add</u> hydraulic safety back-up to your valve
<i>Protection?</i>	<u>Remove</u> excessive system overpressures
<i>Corrosion?</i>	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*



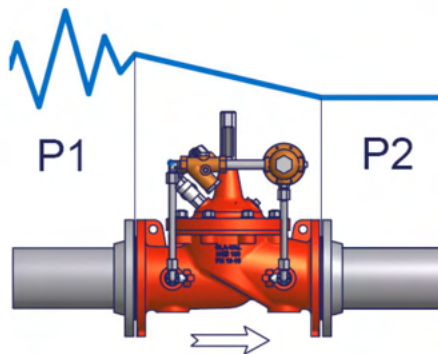
**Recommended typical assembly for CLA-VAL automatic control valves**  
The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.



### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

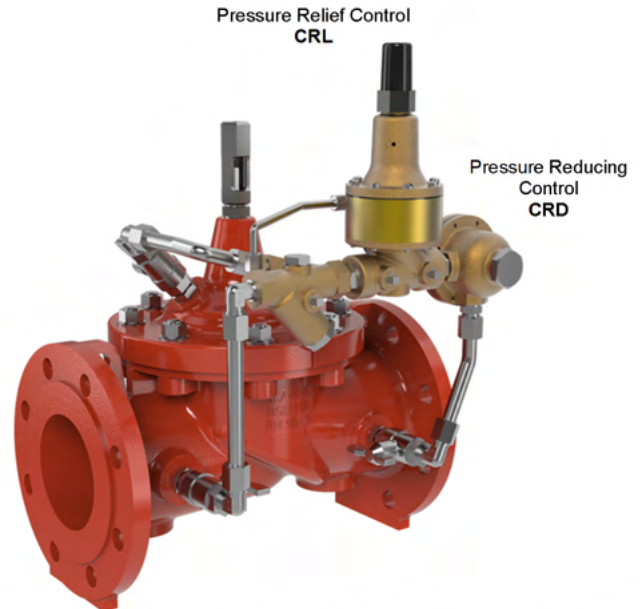
#### ► CLA-VAL SERIES 90 Main Function



#### ► CLA-VAL 92-01 Typical Application

The CLA-VAL 92-01 is designed to reduce a high pressure (P1) and to sustain a minimum upstream pressure.

Reducing pressure for a downstream distribution network and sustaining a minimum upstream pressure in a high pressure main and/or for an upstream distribution network is a typical application.

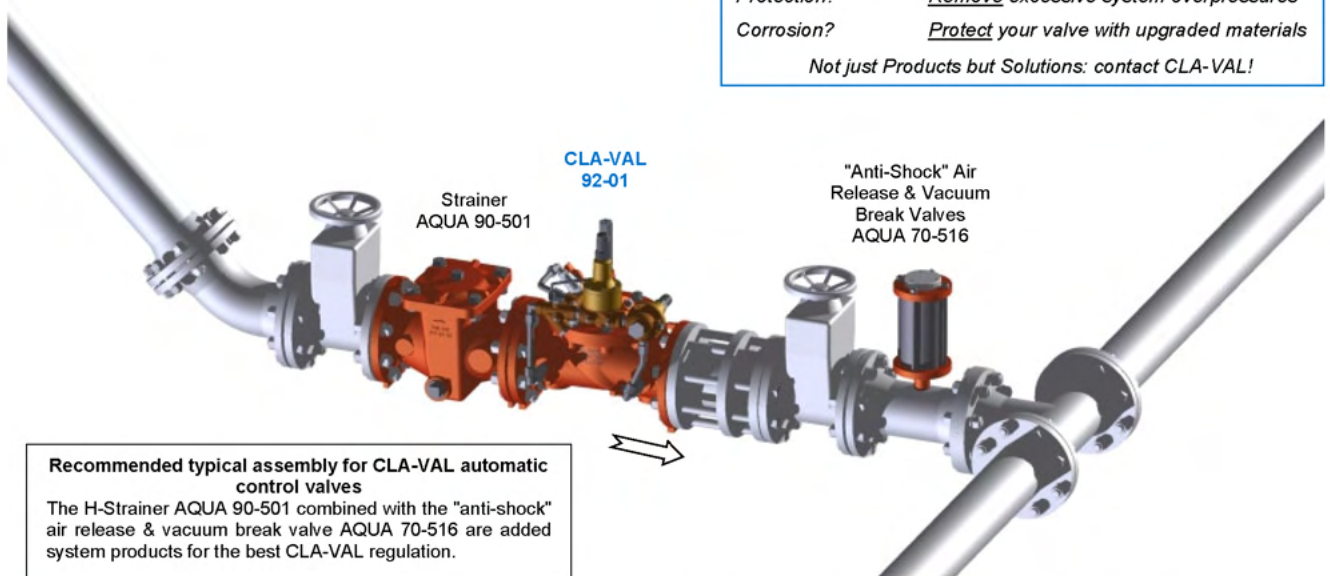


The CLA-VAL SERIES 90 reduces a higher inlet pressure to a constant downstream pressure (Pressure Reducing Control) regardless of changing flow rate and/or varying inlet pressure.

#### *Make your valve even Better!*

LFS Option?	<u>Control</u> Low flows or night flows
KO Option?	<u>Extend</u> valve life with Anti-Cavitation trim
KG1 Option?	<u>Use</u> stem cleaning for harsh water
Maintenance?	<u>Check</u> on periodic maintenance
Environment?	<u>Adapt</u> to high temperatures or frost risk
Security?	<u>Add</u> hydraulic safety back-up to your valve
Protection?	<u>Remove</u> excessive system overpressures
Corrosion?	<u>Protect</u> your valve with upgraded materials

Not just Products but Solutions: contact CLA-VAL!



Recommended typical assembly for CLA-VAL automatic control valves

The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.



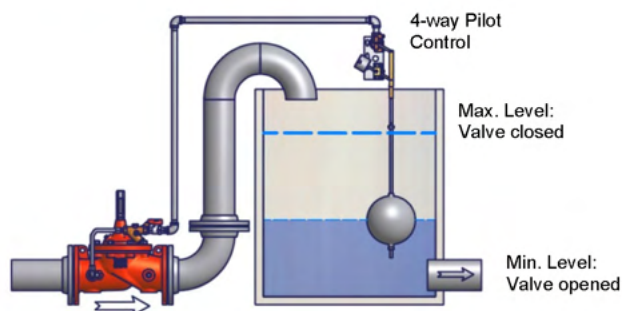
# CLA-VAL 100-CF1 & 124-01

## On/Off Float Level Control Valve

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

### ► CLA-VAL SERIES 100 Main Function



### ► CLA-VAL 100-CF1 & 124-01 Typical Application

The CLA-VAL 100-CF1 & 124-01 is equipped with a 4-way pilot control type CF1-C1.

The CLA-VAL 100-CF1 is designed to open when the liquid level reaches a preset min. level and closes drip tight when the filling of the tank reaches the preset max. level.

The CLA-VAL 124-01 Float Valve is commonly mounted above the high water level in a tank. Globe pattern valves are supplied standard with the float control mounted on the cover as illustrated, with a horizontal discharge. Angle valves are configured to discharge downwards.

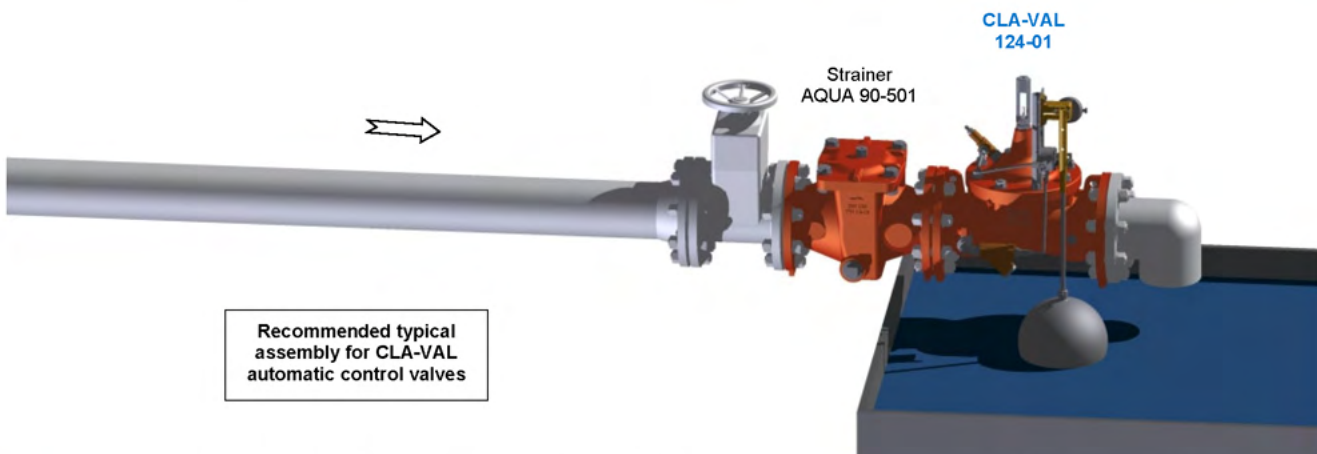


The CLA-VAL SERIES 100 On/Off Float Level Control Valve is a non-modulating valve which accurately controls the liquid level in a tank. This valve opens fully when the liquid level reaches a preset low level and closes drip tight when the liquid level reaches a high level.

### *Make your valve even Better!*

<i>LFS Option?</i>	<u>Control</u> Low flows or night flows
<i>KO Option?</i>	<u>Extend</u> valve life with Anti-Cavitation trim
<i>KG1 Option?</i>	<u>Use</u> stem cleaning for harsh water
<i>Maintenance?</i>	<u>Check</u> on periodic maintenance
<i>Environment?</i>	<u>Adapt</u> to high temperatures or frost risk
<i>Security?</i>	<u>Add</u> hydraulic safety back-up to your valve
<i>Protection?</i>	<u>Remove</u> excessive system overpressures
<i>Corrosion?</i>	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*



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### ► Simple, Reliable and Accurate

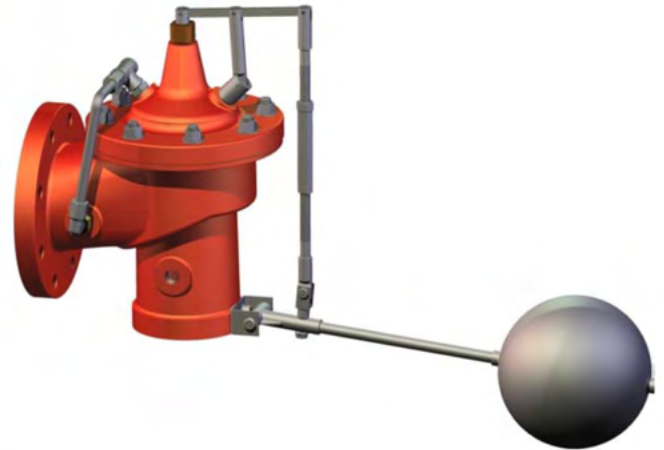
- DN 40 to DN 150
- PFA 10 bar (Allowable operating pressure)
- PMA 16 bar (Allowable Maximum Pressure)

#### ► AQUA 80-910 Function and Installation

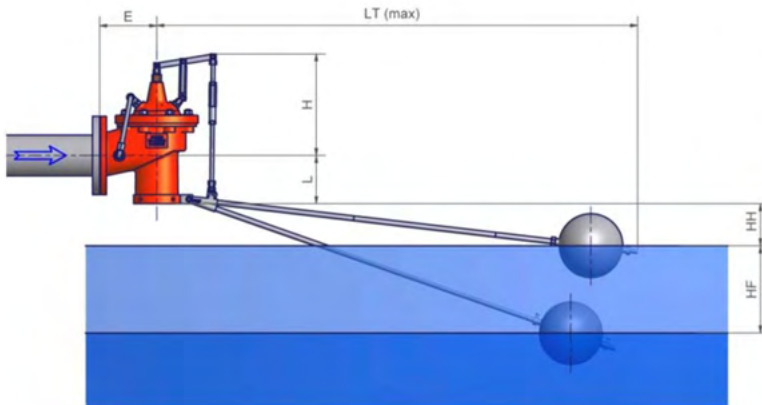
The AQUA 80-910 balanced hydraulically operated modulating float valve is installed on the reservoir inlet supply pipe above the maximum water level. As the flow out of the reservoir fluctuates according to changes in demand, the float control proportionally opens or closes the valve keeping the liquid level nearly constant.

On request, various additional devices (option) can be available for completing its operation or mounting ability:

- N1: Upstream surge control (Upstream pressure discharging action in the reservoir).
- N6: Stability control of the water level surface (dampening of the wave action).
- N8: Mounting kit for fixing a stilling well against the reservoir wall.



#### ► AQUA 80-910 Dimensions and Process



#### ► AQUA 80-910 Materials

- **Casing:** Ductile iron GGG40 EPOXY coated WRAS approved
- **Moving parts:** Stainless Steel 303
- **Renewable seat:** Stainless Steel 316
- **Diaphragm and gaskets:** EPDM
- **Screws & bolts:** Stainless Steel 303
- **Spherical float:** Polished Stainless Steel 304 - Ø 180 mm
- **Float arm:** Stainless Steel 303
- **Lever:** Stainless Steel 303

#### ► AQUA 80-910 Technical Specifications

- **Medium:** Water
- **Upstream pressure max.:** 10,0 bar
- **Max. working temperature:** 60°C

Dimensions										
DN (mm)	E (mm)	L (mm)	H max (mm)	LT (mm)	HH (mm)	HF (mm)	Weight (kg)	Cv (l/s) @ 1 bar	Opening (mm)	Q max @ 3 m/s (l/s)
40/50	120	100	280	870	100 - 300	180	13,6	10	10	6
60/65	120	110	280	880	100 - 300	180	14,3	15	15	10
80	140	110	280	890	100 - 300	180	16,4	19	15	15
100	160	135	330	1350	100 - 300	360	30,0	39	22	24
125	170	150	340	1365	100 - 300	480	41,0	52	28	37
150	190	175	410	1380	100 - 300	600	57,0	68	28	53

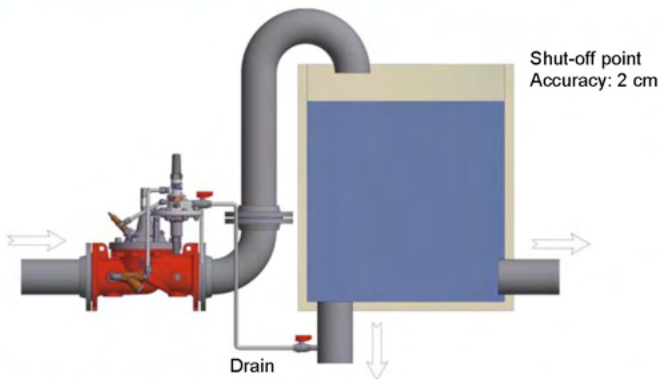
HH: Adjustable closing level set at closed valve

HF: Opening lift of the float (corresponding to an opening percentage of the valve between 0% and 100%)

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIES 270 Main Function



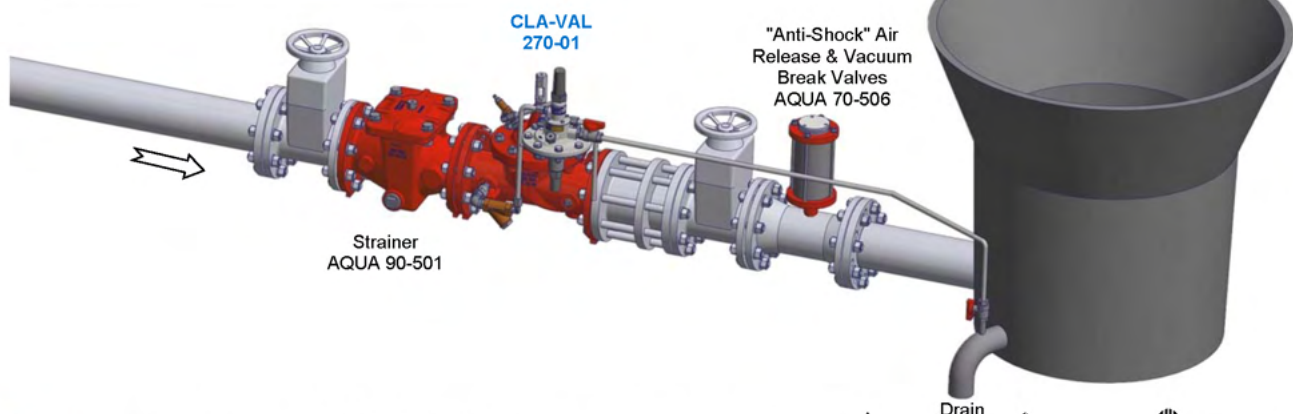
The CLA-VAL SERIES 270 On/Off Altitude Level Control Valve controls the high water level in a reservoir or closed tank without the need for floats or other devices. It is a non-throttling valve that remains fully open until the shut-off point is reached.

#### ► CLA-VAL 270-01 Typical Application

The CLA-VAL 270-01 is typically designed for closed reservoirs where water is withdrawn through a separate line. The desired water level is set by adjusting the spring force. The pilot control operates on the differential in forces between a spring load and the water level in the reservoir. The CLA-VAL 270-01 is one way flow only.

#### Recommended typical assembly for CLA-VAL automatic control valves

The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-506 are added system products for the best CLA-VAL regulation.



#### Make your valve even Better!

LFS Option?	<u>Control</u> Low flows or night flows
KO Option?	<u>Extend</u> valve life with Anti-Cavitation trim
KG1 Option?	<u>Use</u> stem cleaning for harsh water
Maintenance?	<u>Check</u> on periodic maintenance
Environment?	<u>Adapt</u> to high temperatures or frost risk
Security?	<u>Add</u> hydraulic safety back-up to your valve
Protection?	<u>Remove</u> excessive system overpressures
Corrosion?	<u>Protect</u> your valve with upgraded materials

Not just Products but Solutions: contact CLA-VAL!





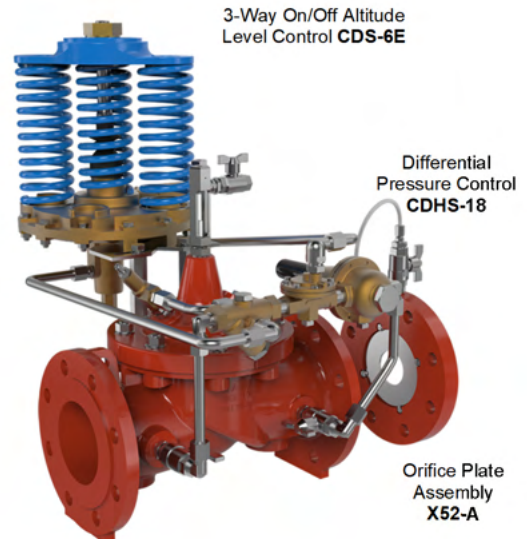
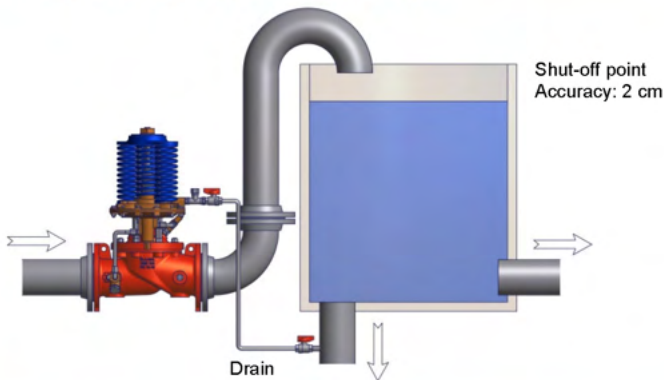
# CLA-VAL 210-21

## On/Off Altitude Level Control Valve with Flow Control

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIES 210 Main Function



The CLA-VAL SERIES 210 On/Off Altitude Level Control Valve controls the high water level in a reservoir or closed tank without the need for floats or other devices. It is a non-throttling valve that remains fully open until the shut-off point is reached.

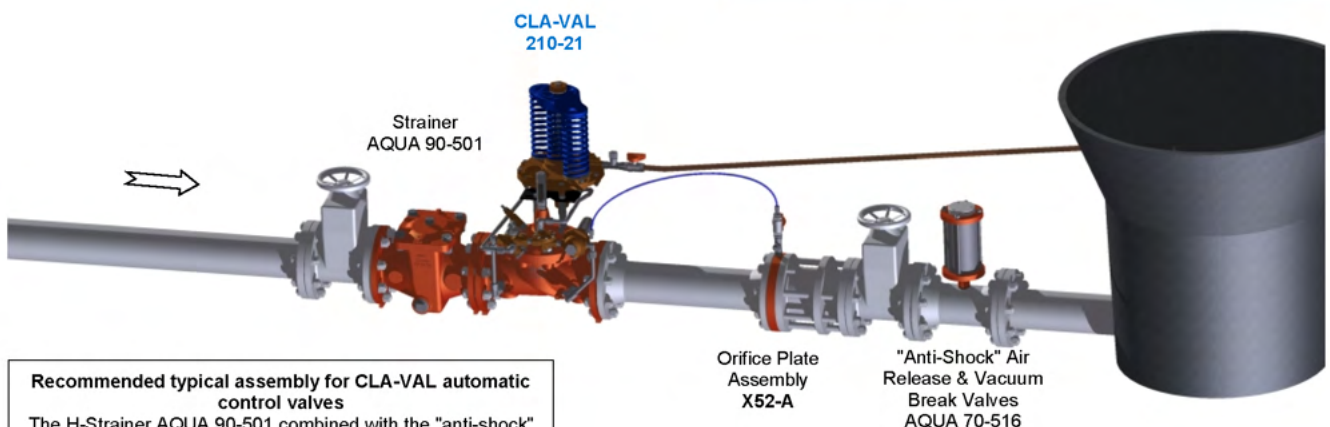
#### ► CLA-VAL 210-21 Typical Application

The CLA-VAL 210-21 is typically designed for closed tanks where water is withdrawn through a separate line. The desired water level is set by adjusting the spring force. The pilot control operates on the differential in forces between a spring load and the water level in the reservoir. The CLA-VAL 210-21 is typically installed when feeding must be limited to a maximum flow rate.

#### *Make your valve even Better!*

LFS Option?	<u>Control</u> Low flows or night flows
KO Option?	<u>Extend</u> valve life with Anti-Cavitation trim
KG1 Option?	<u>Use</u> stem cleaning for harsh water
Maintenance?	<u>Check</u> on periodic maintenance
Environment?	<u>Adapt</u> to high temperatures or frost risk
Security?	<u>Add</u> hydraulic safety back-up to your valve
Protection?	<u>Remove</u> excessive system overpressures
Corrosion?	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*



#### Recommended typical assembly for CLA-VAL automatic control valves

The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.



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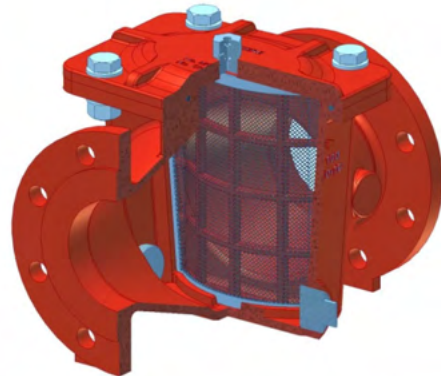
mining



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### ► Simple, Reliable and Accurate

- DN 40 to DN 800
- PN 10 - 16 - 25 - 40
- Max. temperature. 80°C

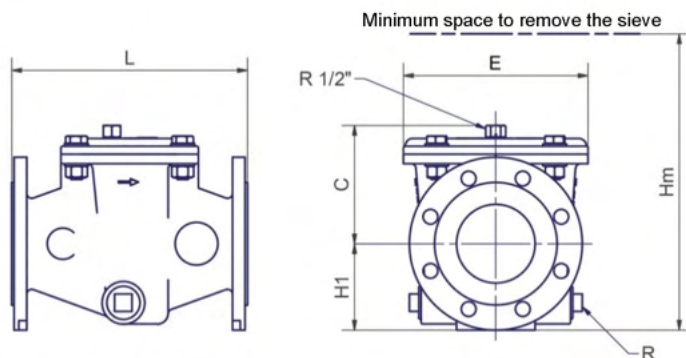


### ► AQUA 90-501 Operation and Installation

The AQUA 90-501 strainer is used when effective filtration is required. Of compact design, maintenance is fast and easy and requires only top cover removal. The flat stainless steel strainer mesh perpendicular to flow optimizes pressure drop. The AQUA 90-501 model can be equipped with a flushing manual override.

The strainer may be installed in any position, however installation with the cover on top side is recommended.

### ► AQUA 90-501 Dimensions



### ► AQUA 90-501 Materials

- **Body and cover:** Ductile iron EN-GJS-400-18 with epoxy coating
- **Strainer:** Stainless steel 316 on a ductile iron epoxy coated frame
- **Strainer mesh:** Standard 2.0 mm. (option: 1.0 mm or 1.5 mm)
- **Drilled flanges:** PN 10, PN 16, PN 25 or PN 40 for DN 40 - DN 200
- **Drilled flanges:** PN 10, PN 16, PN 25 for DN 250 - DN 800
- **Bolts:** Stainless steel 303

Dimensions																
DN	40/50	60/65	80	100	125	150	200	250	300	350	400	450	500	600	700	800
L [mm]	230	230	300	300	400	400	500	580	610	650	800	800	950	1100	1150	1150
H1 [mm] (PN10-16)	82.5	92.5	103	110	125	143	170	225	227.5	260	310	335	485	485	485	513
H1 [mm] (PN25-40)	82.5	92.5	103	118	135	150	188	225	242.5	277.5	310	335	485	485	485	PN25: 543 PN40: 570
C [mm]	125	96	150	150	215	196	230	310	385	380	500	500	609	609	609	609
E [mm]	200	200	235	235	380	380	440	560	680	680	900	900	1190	1190	1190	1190
Hm [mm]	340	340	450	450	620	620	700	950	1150	1150	1430	1430	2070	2070	2070	2070
R ["]	R 1 1/4"								R 2"				R 3"			
Weight [kg]	13.8	14.6	22	23	46	48	76	165	230	250	410	430	770	850	950	998

Flow coefficient																
Kv [m <sup>3</sup> /h]	83	187	306	565	806	1422	2527	3949	5687	7741	10111	12796	15798	22749	27695	33021
Cv [l/s]	23	52	85	157	224	395	702	1097	1580	2150	2809	3555	4388	6319	7693	9172
K -	0.6	0.6	0.7	0.5	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.6

Kv or Cv = m<sup>3</sup>/h or l/s @ 100 kPa (1 bar) pressure drop for a water at 15°C.





# NUVENT AQUA 70-516

## “Anti-Shock” Air release and Vacuum breaker valve

- Automatic surge protection with Integral ‘Anti-Shock’ mechanism to minimise transients
- Effective air release – ensuring effective de-aeration under all operating conditions
- Vacuum protection – The large orifice diameter ensures least possible resistance to air intake
- Virtually maintenance free – assembled from corrosion free materials



### ▶ AQUA 70-516 Function and Installation

NUVENT AQUA 70-516 is a Triple orifice Air release and Vacuum breaker valve with an integral "Anti-shock" feature specifically sized for water pipelines. When correctly sized and located, the NUVENT 70-516 will offer surge protection in the event of rapid filling of pipelines and surge events such as pump trip. The valve is also designed to offer full port vacuum break in the event of pipeline draining or suffers a burst, thus ensuring the safeguarding of your pipeline, pipe components, valves and seals.

### AQUA B70-516 Weights & Dimensions

Size	Model no.	Pressure Rating	Overall Height	Overall Diameter	Weight
25mm / 1"	AQUA 70-516	25 bar / 363 psi	286mm / 11.26"	100mm / 3.94"	4 kg / 9 lbs
	AQUA 70-516	40 bar / 580 psi	336mm / 13.23"	100mm / 3.94"	5 kg / 11 lbs
50mm / 2"	AQUA 70-516	25 bar / 363 psi	301mm / 11.85"	130mm / 5.12"	7 kg / 15 lbs
	AQUA 70-516	40 bar / 580 psi	346mm / 13.62"	130mm / 5.12"	8 kg / 18 lbs
80mm / 3"	AQUA 70-516	16 bar / 232 psi	279mm / 10.98"	200mm / 7.87"	16 kg / 35 lbs
	AQUA 70-516	25 bar / 363 psi	279mm / 10.98"	200mm / 7.87"	16 kg / 35 lbs
100mm / 4"	AQUA 70-516	40 bar / 580 psi	313mm / 12.32"	200mm / 7.87"	19 kg / 42 lbs
	AQUA 70-516	16 bar / 232 psi	274mm / 10.79"	220mm / 8.66"	16 kg / 35 lbs
150mm / 6"	AQUA 70-516	25 bar / 363 psi	279mm / 10.98"	235mm / 9.25"	19 kg / 42 lbs
	AQUA 70-516	40 bar / 580 psi	319mm / 12.56"	235mm / 9.25"	23 kg / 51 lbs
200mm / 8"	AQUA 70-516	16 bar / 232 psi	438mm / 17.24"	285mm / 11.22"	40 kg / 88 lbs
	AQUA 70-516	25 bar / 363 psi	449mm / 17.68"	300mm / 11.81"	46 kg / 102 lbs
200mm / 8"	AQUA 70-516	40 bar / 580 psi	484mm / 19.06"	300mm / 11.81"	61 kg / 135 lbs
	AQUA 70-516	16 bar / 232 psi	497mm / 19.57"	340mm / 13.39"	55 kg / 121 lbs
200mm / 8"	AQUA 70-516	25 bar / 363 psi	507mm / 19.96"	360mm / 14.17"	65 kg / 143 lbs
	AQUA 70-516	40 bar / 580 psi	530mm / 20.87"	375mm / 14.76"	87 kg / 192 lbs

### ▶ AQUA B70-516 Materials

**Body:** Stainless Steel, Grade 304,316

**Seals:** EPDM

**Floats:** H.D.P.E

**Gaskets:** RBR

### ▶ AQUA B70-516 Technical Specifications

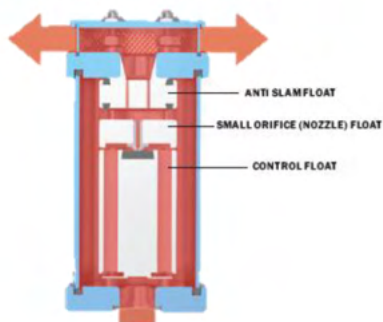
**Medium:** Water / Air

**Size range:** 25mm to 200mm

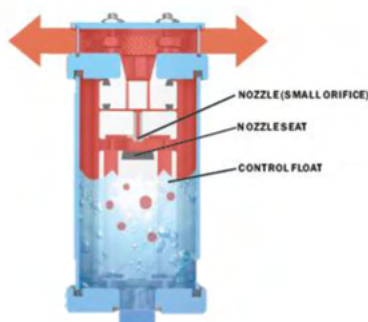
**Max. working temperature:** 5°C to 60°C

**Pressure Ratings:** PN16 through to PN40

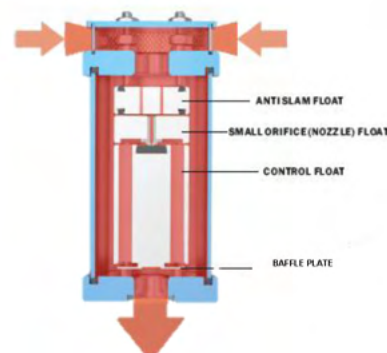
#### ANTI SLAM AIR DISCHARGE



#### PRESSURISED AIR RELEASE



#### VACUUM BREAK



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# NUVENT AQUA 70-555bl

## “Anti-Shock” Air release and Vacuum breaker valve FOR SEWAGE APPLICATIONS

- Automatic surge protection with Integral ‘Anti-Shock’ mechanism to minimise flushing cycles
- Effective air release – ensuring effective de-aeration under all operating conditions
- Vacuum protection – The large orifice diameter ensures least possible resistance to air intake
- Virtually maintenance free – assembled from corrosion free materials



### ▶ AQUA 70-516 Function and Installation

NUVENT AQUA 70-555bl prevents damaging pressures at pump start by forcing air through an “Anti-Shock” orifice to restrict air discharge resulting in the deceleration of the approaching water column due to the resistance of rising air pressure in the valve. This dampens transients when the air valve closes. Accumulations of pressurised air are discharged through a small orifice. At pump stop, air is admitted into system to prevent vacuum.

### AQUA B70-516 Weights & Dimensions

Size	Model no.	Pressure Rating	Overall Height	Overall Diameter	Weight
50mm / 2"	AQUA 70-555bl	16 bar / 232 psi	631mm / 24.84"	130mm / 5.12"	13 kg / 27 lbs
80mm / 3"	AQUA 70-555bl	16 bar / 232 psi	637mm / 25.08"	200mm / 7.87"	20 kg / 44 lbs
100mm / 4"	AQUA 70-555bl	16 bar / 232 psi	637mm / 25.08"	220mm / 8.66"	22 kg / 49 lbs
150mm / 6"	AQUA 70-555bl	16 bar / 232 psi	892mm / 35.11"	285mm / 11.22"	70 kg / 154 lbs
200mm / 8"	AQUA 70-555bl	16 bar / 232 psi	941mm / 37.05"	340mm / 13.39"	85 kg / 187 lbs

### ▶ AQUA B70-516 Materials

**Body:** Stainless Steel, Grade 304,316

**Seals:** EPDM

**Floats:** H.D.P.E

**Gaskets:** RBR

### ▶ AQUA B70-516 Technical Specifications

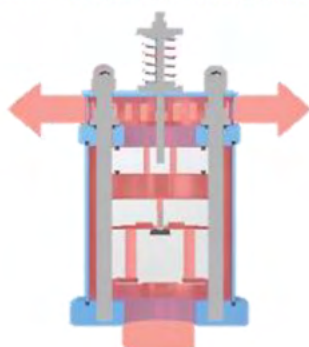
**Medium:** Water / Air

**Size range:** 50mm to 200mm

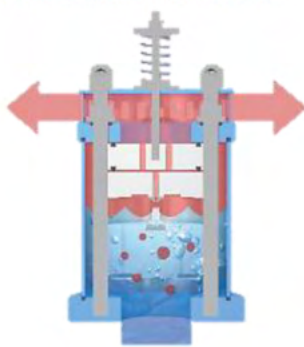
**Max. working temperature:** 5°C to 60°C

**Pressure Ratings:** PN16

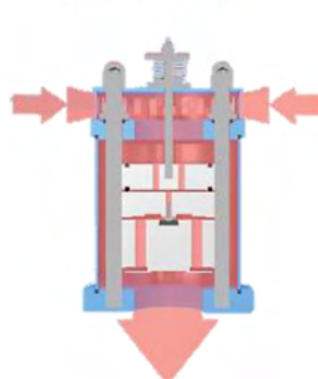
#### CONTROLLED AIR DISCHARGE



#### PRESSURISED AIR RELEASE



#### VACUUM BREAK



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### ► Valve Asset Management Platform



- Manage all your valves and track maintenance evolution over time with access to service documents
- Ensure valve functionality remotely
- Remotely control your CLA-VAL communicating valves securely
- Customize your views to get only information of interest
- Interface your system to **Link2Valves™** via a secured API (Application Programming Interface)
- Entirely secured environment (pen tested)

#### Asset Management

The CLA-VAL **Link2Valves™** is a valve-oriented web platform, designed to managing regulation sites and valve assets over their lifetime. At any time and from everywhere, access sites information and valve details, such as geographical location, pictures, valve brand, model number, etc. **Link2Valves™** provides an overview of the valve maintenance status, helping the planification of interventions as well as accessing service history details.

#### Monitoring

Visualize valve sensors and get valve-specific information and health indicator status remotely, ensuring proper regulation.

#### Remote Control

**Link2Valves™** provides the possibility to control a CLA-VAL regulation valve remotely, by changing a regulation profile (pressure, flow, level, etc), modifying a valve control setpoint or change its regulating mode remotely in an entirely secured interface.

#### Organization and Users Management

Create user groups within the organization and manage levels of access to the various sites and/or valve assets for an optimal control, from a purely visual role to a more advanced operator, able to interact with a valve remotely.

#### ► Technical Characteristics



##### Browser:

**Link2Valves™** is compatible with all recent major web browsers. Minimum version recommended

- Firefox 16 (2012)
- Chrome 4 (2012)
- Opera 12.1 (2012)
- Edge 12 (2012)

##### User Interface:

- Custom Time Zone
- Website available in various languages
- Download or export of \*.CSV data files
- Custom data display graphs

##### Database:

- Application Programming Interface (API) option
  - HTTPS connection with security certificates
  - TLS 1.2 cryptography
  - JSON or XML format
- Automatic data export to custom FTPS server option
- Secured partitioning between organizations
- Possibility to recover all historical data at any time

##### Security:

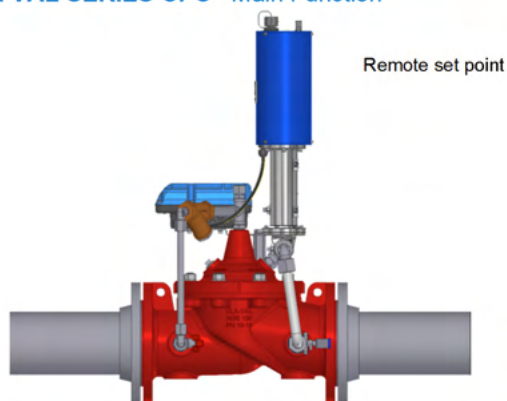
The CLA-VAL **Link2Valves™** complete environment has been pen tested against vulnerability

- Accounts protected against brute force attacks
- 2-factor authentication access possibility
- HTTPS connection with verified certificates
- TLS 1.1 cryptography (or more recent)
- Secured communicating devices interface with no direct access possible
- Physically and logically secured servers

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIES CPC Main Function



Actuated hydraulic pilot  
CPC-34

The CLA-VAL SERIES CPC is a range of Electronic Actuated Pilot control Valves that combine precise control of field proven CLA-VAL hydraulic pilots with a simple electronically actuated motor.

The CLA-VAL SERIES CPC valves, include a hydraulic pilot and integral controller which accepts a remote set-point command input to make smooth adjustments to the pilot.

#### ► CLA-VAL CPC 138-L21 Typical Application

The CLA-VAL CPC 138-L21 is designed as a direct acting valve for opening/closing or regulating a pressure, flow or level.

The simple remote changing (4-20 mA analog) of valve set-point is suitable for many applications where the process variable is monitored separately and a SCADA or similar remote control system provides valve control.

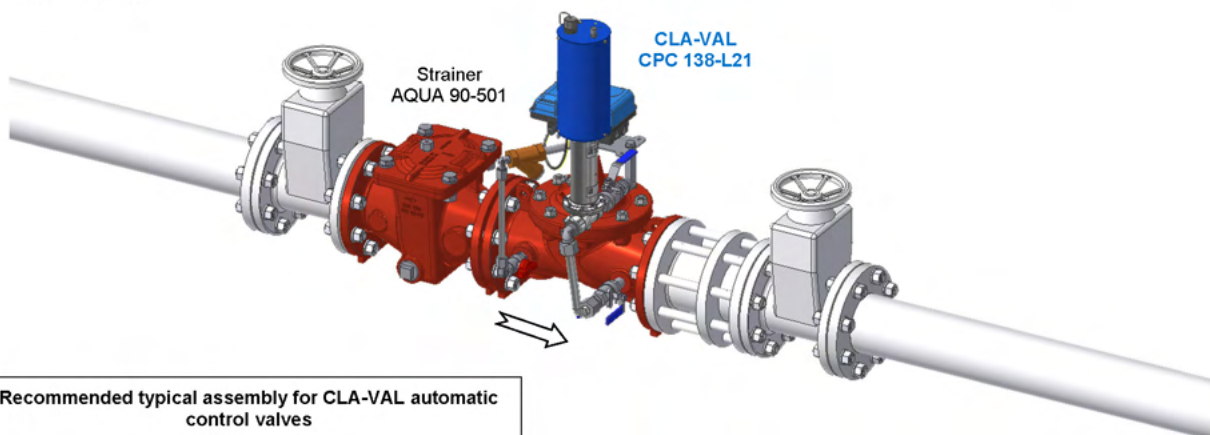
Standards Applications:

- Reservoir Management
- Injection between networks
- Blending
- Flow control

#### *Make your valve even Better!*

<i>LFS Option?</i>	<u>Control</u> Low flows or night flows
<i>KO Option?</i>	<u>Extend</u> valve life with Anti-Cavitation trim
<i>KG1 Option?</i>	<u>Use</u> stem cleaning for harsh water
<i>Maintenance?</i>	<u>Check</u> on periodic maintenance
<i>Environment?</i>	<u>Adapt</u> to high temperatures or frost risk
<i>Security?</i>	<u>Add</u> hydraulic safety back-up to your valve
<i>Protection?</i>	<u>Remove</u> excessive system overpressures
<i>Corrosion?</i>	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*







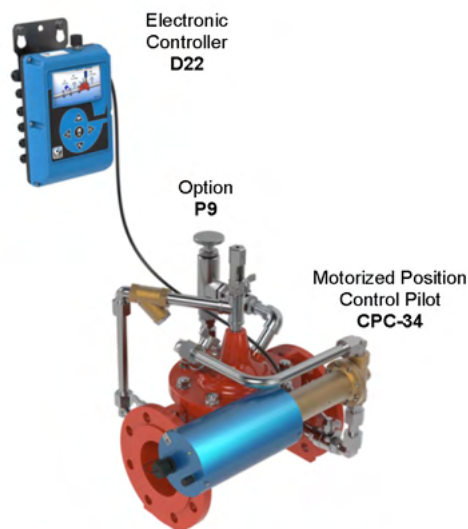
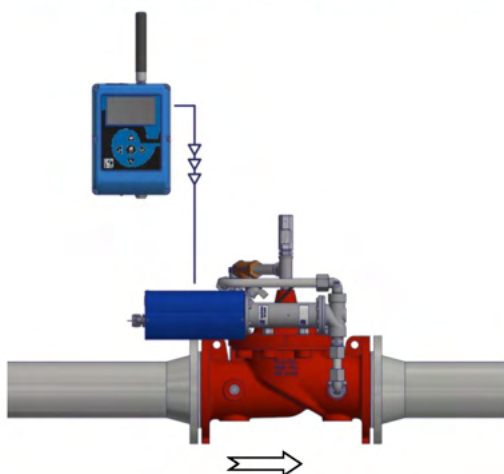
# CLA-VAL D22-138-L21/P9

Position Control Valve 4-20 mA / P9  
D22 Electronic Controller

## ► Simple, Reliable and Accurate

- System Efficiency
- Easy Adjustment and Maintenance
- Pipe Break Prevention
- World Wide Support Link2Valves Platform

### ► CLA-VAL SERIES D22-138-L21/P9 Main Function



The CLA-VAL SERIES D22 programmable Control Valves automatically adjust valve regulation according to customized pre-defined rules.

The combination of precise, field proven, CLA-VAL electronically actuated hydraulic pilots and the CLA-VAL D22 Electronic Controller allows advanced regulation while keeping full hydraulic control.

The CLA-VAL SERIES D22 valves can be connected to the CLA-VAL Link2Valves web platform for remote valve diagnostic and control.

### ► CLA-VAL D22-138-L21/P9 Typical Application

The CLA-VAL D22-138-L21/P9 is a programmable control valve, designed as a direct acting for opening/closing or regulating a pressure, flow, or other parameters (reservoir level). The CLA-VAL CPC-34 motorized pilot, commanded by a 4-20 mA signal, controls the valve position using hydraulically assisted technology.

The regulation is customizable and follows fully user programmable profile and rules.

Standards Applications: - Reservoir Management, - Injection between networks, - Blending or - Flow control.

The P9 option is an important manual override in case of power shut-off.

**Recommended typical assembly for CLA-VAL automatic control valves**  
The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.



### *Make your valve even Better!*

<i>LFS Option?</i>	<i><u>Control</u> Low flows or night flows</i>
<i>KO Option?</i>	<i><u>Extend</u> valve life with Anti-Cavitation trim</i>
<i>KG1 Option?</i>	<i><u>Use</u> stem cleaning for harsh water</i>
<i>Maintenance?</i>	<i><u>Check</u> on periodic maintenance</i>
<i>Environment?</i>	<i><u>Adapt</u> to high temperatures or frost risk</i>
<i>Security?</i>	<i><u>Add</u> hydraulic safety back-up to your valve</i>
<i>Protection?</i>	<i><u>Remove</u> excessive system overpressures</i>
<i>Corrosion?</i>	<i><u>Protect</u> your valve with upgraded materials</i>

*Not just Products but Solutions: contact CLA-VAL!*



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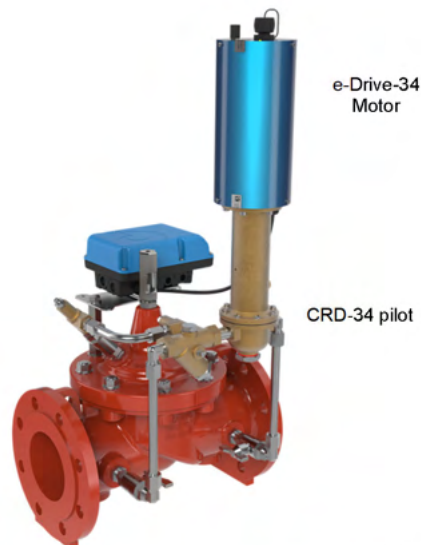
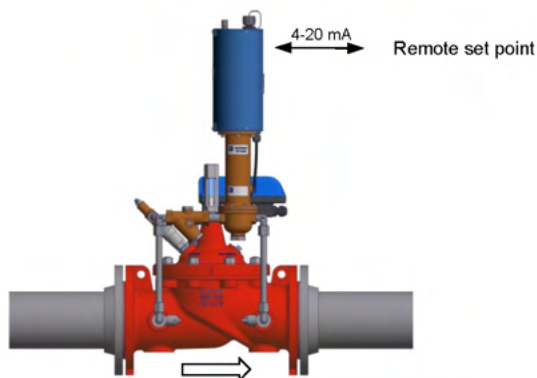


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### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support

#### ► CLA-VAL SERIE PCM Main Function



The CLA-VAL SERIES PCM is a range of Electronic Actuated Pilot Control Valves that combines precise control of field proven CLA-VAL hydraulic pilots and simple electronic actuated motor.

The CLA-VAL SERIES PCM valves, including a hydraulic pilot and integral controller, which accept a remote set-point command input to make smooth adjustments to the pilot.

#### ► CLA-VAL PCM 90-01 Typical Application

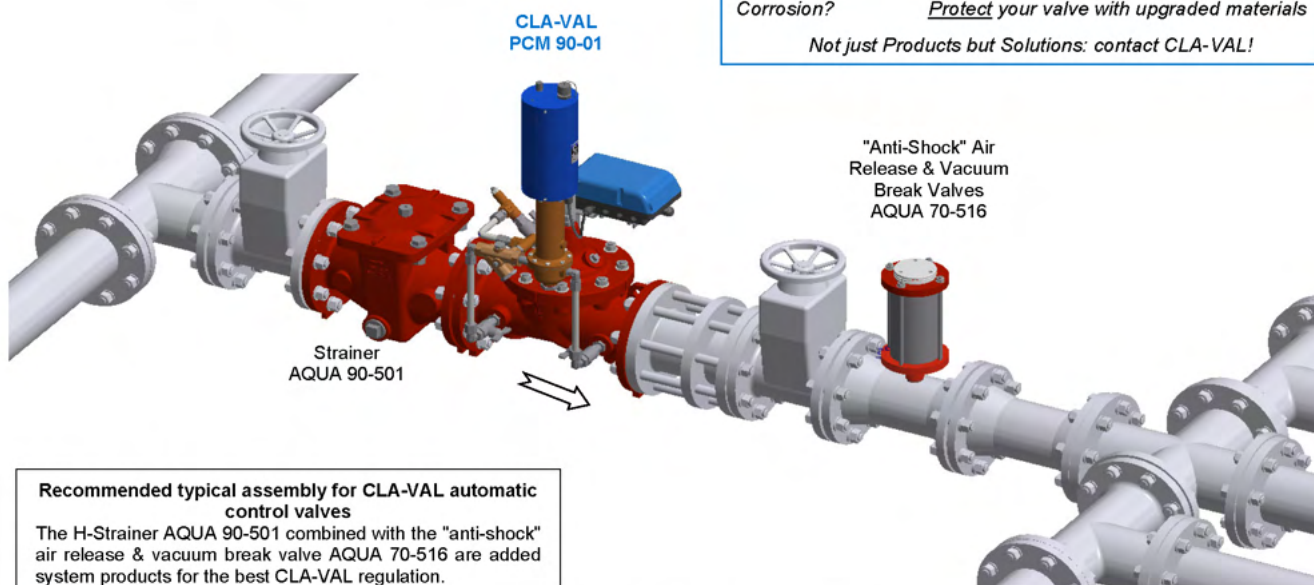
The CLA-VAL PCM 90-01 is designed to hold downstream pressure to a pre-determined limit and to maintain a constant downstream pressure set-point.

The simple remote changing (4-20 mA analog) of valves set point is suitable for many applications where the process variable monitored separately and a SCADA or similar remote control system provides valve control.

#### *Make your valve even Better!*

<i>LFS Option?</i>	<i>Control Low flows or night flows</i>
<i>KO Option?</i>	<i>Extend valve life with Anti-Cavitation trim</i>
<i>KG1 Option?</i>	<i>Use stem cleaning for harsh water</i>
<i>Maintenance?</i>	<i>Check on periodic maintenance</i>
<i>Environment?</i>	<i>Adapt to high temperatures or frost risk</i>
<i>Security?</i>	<i>Add hydraulic safety back-up to your valve</i>
<i>Protection?</i>	<i>Remove excessive system overpressures</i>
<i>Corrosion?</i>	<i>Protect your valve with upgraded materials</i>

*Not just Products but Solutions: contact CLA-VAL!*



**Recommended typical assembly for CLA-VAL automatic control valves**  
The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.





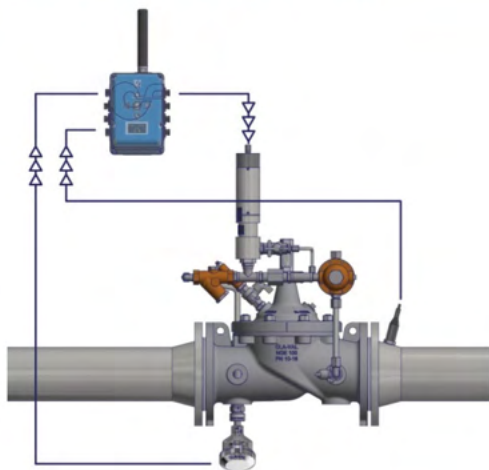
# CLA-VAL D12-99-01

## Pressure Modulation Control Valve / Time, Flow D12 Electronic Controller

### ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support Link2Valves

#### ► CLA-VAL SERIES D12 Main Function



The CLA-VAL SERIES D12 programmable Control Valves automatically adjust valve regulation according to customized pre-defined rules.

The combination of precise, field proven, CLA-VAL hydraulic pilots controlled with an actuator and the CLA-VAL D12 ultra low power Electronic Controller, allows advanced regulation while keeping full hydraulic control. The CLA-VAL D12 SERIES valves can be connected to the CLA-VAL Link2Valves web platform for remote valve diagnostic and control.

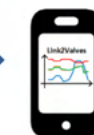
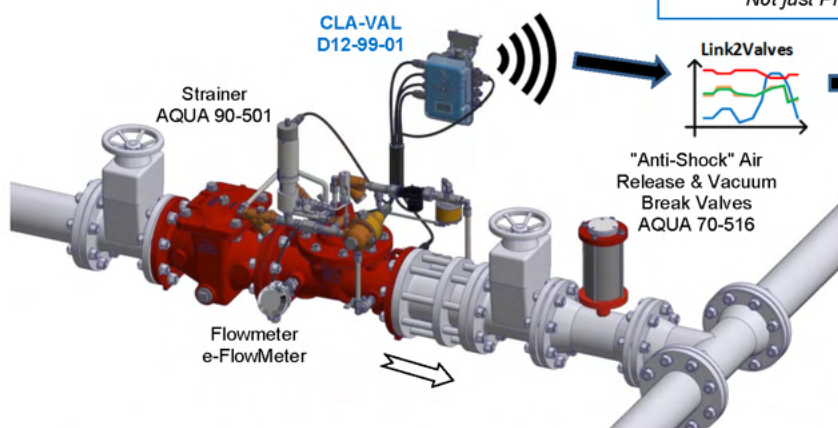
#### ► CLA-VAL D12-99-01 Typical Application

The CLA-VAL D12-99-01 is a programmable control valve, which regulates the outlet pressure as a function of the network flow conditions, according to a fully user programmable profile.

#### *Make your valve even Better!*

<i>LFS Option?</i>	<i><u>Control</u> Low flows or night flows</i>
<i>KO Option?</i>	<i><u>Extend</u> valve life with Anti-Cavitation trim</i>
<i>KG1 Option?</i>	<i><u>Use</u> stem cleaning for harsh water</i>
<i>Maintenance?</i>	<i><u>Check</u> on periodic maintenance</i>
<i>Environment?</i>	<i><u>Adapt</u> to high temperatures or frost risk</i>
<i>Security?</i>	<i><u>Add</u> hydraulic safety back-up to your valve</i>
<i>Protection?</i>	<i><u>Remove</u> excessive system overpressures</i>
<i>Corrosion?</i>	<i><u>Protect</u> your valve with upgraded materials</i>

*Not just Products but Solutions: contact CLA-VAL!*



**Recommended typical assembly for CLA-VAL automatic control valves**  
The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.



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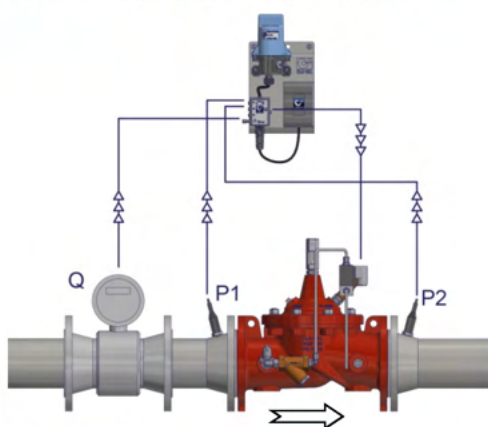
# CLA-VAL CLOG-136-01

Communicating On/Off Solenoid Control Valve  
CV-Log+ Communicating Logger

## ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support Link2Valves Platform

### ► CLA-VAL SERIES CLOG Main Function



Communicating logger  
CV-Log+

The CLA-VAL SERIES CLOG switches a latching solenoid by means of a CLA-VAL CV-Log+ communicating logger according to predefined rules, or upon remote command, via the CLA-VAL Link2Valves web platform.

### ► CLA-VAL CLOG-136-01 Typical Application

The CLA-VAL CLOG-136-01 is designed to fully open or fully close the valve according to flow, time and/or pressure conditions, or upon remote command.

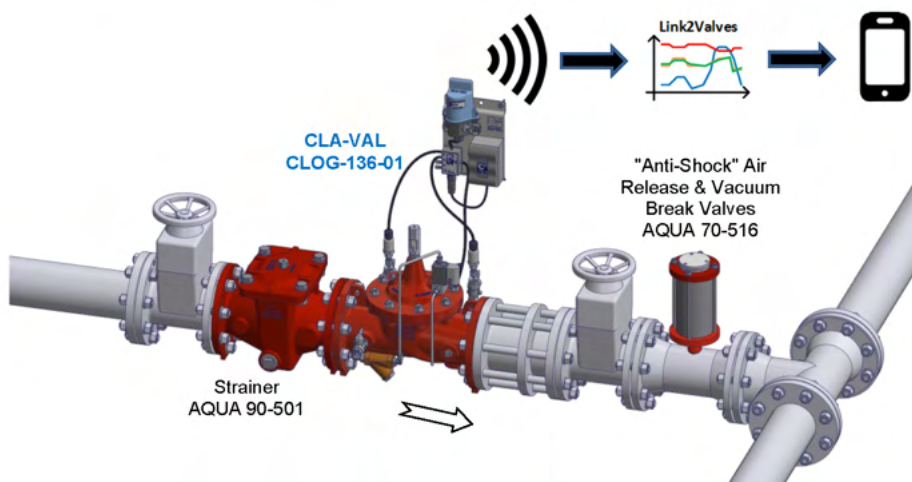
The CLA-VAL CLOG-136-01 is typically designed for industrial uses like control of process water for batching, mixing, washing, or other on/off applications such as flushing valves.

The CLA-VAL CV-Log+ communicating logger, combined with the CLA-VAL Link2Valves platform allows remote valve diagnostic and control.

### *Make your valve even Better!*

LFS Option?	<u>Control</u> Low flows or night flows
KO Option?	<u>Extend</u> valve life with Anti-Cavitation trim
KG1 Option?	<u>Use</u> stem cleaning for harsh water
Maintenance?	<u>Check</u> on periodic maintenance
Environment?	<u>Adapt</u> to high temperatures or frost risk
Security?	<u>Add</u> hydraulic safety back-up to your valve
Protection?	<u>Remove</u> excessive system overpressures
Corrosion?	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*



**Recommended typical assembly for CLA-VAL automatic control valves**  
The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.



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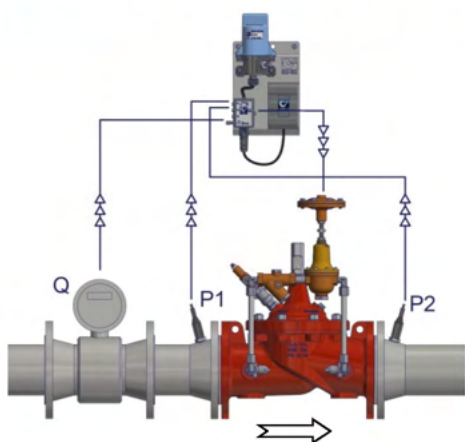
# CLA-VAL CLOG-90-36

Communicating Dual-Stage Pressure Modulation Valve  
CV-Log+ Communicating Logger

## ► Simple, Reliable and Accurate

- Completely Automatic Operation
- Easy Adjustment and Maintenance
- Quality Approved Materials
- World Wide Support Link2Valves Platform

### ► CLA-VAL Communicating Valves Main Function



The CLA-VAL SERIES CLOG switches a latching solenoid by means of a CLA-VAL CV-Log+ communicating logger, according to predefined rules, or upon remote command, via the CLA-VAL Link2Valves web platform.

### ► CLA-VAL CLOG-90-36 Typical Application

The CLA-VAL CLOG-90-36 is a dual stage pressure reducing valve, commuting between high pressure and low pressure according to time of the day and/or flow conditions, or upon remote command.

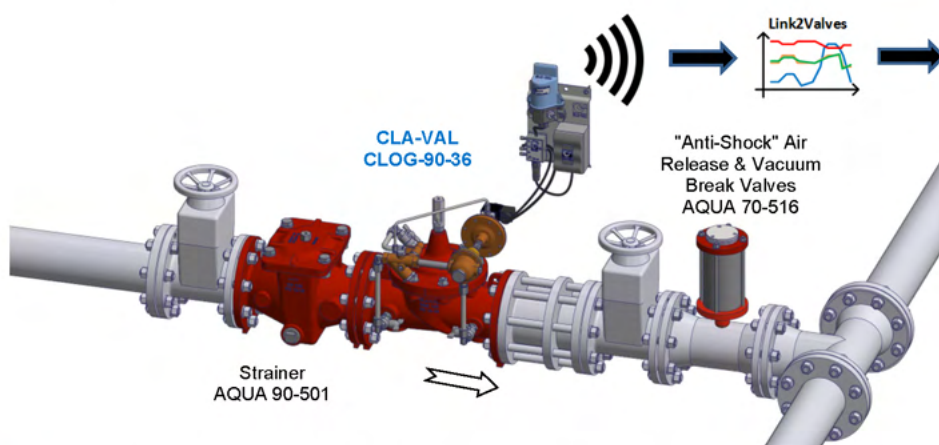
The CLA-VAL CLOG-90-36 is typically designed for pressure modulation according to high and low water demand periods in sub-network zones (DMA).

The CLA-VAL CV-Log+ communicating logger, combined with the CLA-VAL Link2Valves platform allows remote valve diagnostic and control.

### *Make your valve even Better!*

LFS Option?	<u>Control</u> Low flows or night flows
KO Option?	<u>Extend</u> valve life with Anti-Cavitation trim
KG1 Option?	<u>Use</u> stem cleaning for harsh water
Maintenance?	<u>Check</u> on periodic maintenance
Environment?	<u>Adapt</u> to high temperatures or frost risk
Security?	<u>Add</u> hydraulic safety back-up to your valve
Protection?	<u>Remove</u> excessive system overpressures
Corrosion?	<u>Protect</u> your valve with upgraded materials

*Not just Products but Solutions: contact CLA-VAL!*



**Recommended typical assembly for CLA-VAL automatic control valves**  
The H-Strainer AQUA 90-501 combined with the "anti-shock" air release & vacuum break valve AQUA 70-516 are added system products for the best CLA-VAL regulation.



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### ► Compact Multi-Channel Data Logger



CLA-VAL CV-Log-35 is an ultra-low power advanced data logger with to 6 acquisition channels (4 analog inputs and 2 digital inputs). Acquired data is stored in a large internal memory and can optionally be sent to a remote server of your choice, through the new generation 4G communication network, optimized for data communication (IoT). Alternatively, the product can be connected to the **CLA-VAL Link2Valves™** platform for an easy and complete integration.

The CV-Log-35 implements powerful processors, embedding advanced intelligence, such as **CLA-VAL DP Metering™** flow calculation based on inlet/outlet pressures and valve position.

The CV-Log-35 is an easy-to-use product, allowing quick and easy installation, thanks to a compact and ergonomic design, and longtime CLA-VAL field-proven experience. No need for cables or special software installation to access the product; the CV-Log-35 is easily configured via a wireless interface from your smartphone, tablet, or computer.

CLA-VAL CV-Log-35 embeds a standard lithium battery, providing a long usage time. The product battery life can even be extended with the optional external high-capacity battery option. Alternatively, the logger can be powered via an external power supply, or by means of the **CLA-VAL e-Power-MP** microturbine, for a fully battery-free autonomous product.

- Up to 6 data acquisition channels
- Data communication via 4G and 2G
- Local configuration through WiFi from PC, Tablet or Smartphone
- Interface to CLA-VAL **Link2Valves™** for data visualization and remote configuration
- Standard 5-year\* autonomy and 10-year\* external high-capacity battery option
- Protection IP68

\* Depends on device configuration settings

#### ► TECHNICAL DATA

<b>Power Supply:</b>	<ul style="list-style-type: none"> <li>• Internal lithium battery (accessible)</li> <li>• Option: high-capacity lithium external battery</li> <li>• Option: external power supply (5-30 VDC)</li> </ul>
<b>Inputs:</b>	<ul style="list-style-type: none"> <li>• 4x analog (0-5 V / 0-10 V)</li> <li>• 2x digital (dry contact or pulse)</li> </ul>
<b>Logger &amp; data storage:</b>	<ul style="list-style-type: none"> <li>• Configurable logging interval</li> <li>• Memory: 16 MB Flash + 8 GB Micro-SD</li> <li>• Interface to <b>Link2Valves™</b> for remote data access and configuration (optional)</li> <li>• Communication to custom server</li> </ul>
<b>User Interface:</b>	<ul style="list-style-type: none"> <li>• WiFi 802.11n/ac for local configuration</li> <li>• Interface to CLA-VAL <b>Link2Valves™</b> for remote configuration</li> </ul>
<b>Data Communication:</b>	<ul style="list-style-type: none"> <li>• 4G (LTE-M1, NB-IoT) and 2G (GPRS)</li> <li>• Micro SIM card (accessible)</li> <li>• Extendable antenna with flexible cable</li> </ul>
<b>Embedded Intelligence:</b>	<ul style="list-style-type: none"> <li>• Flow totalizer</li> <li>• Option: <b>DP-Metering™</b> valve flowrate calculation (requires CLA-VAL sensors)</li> <li>• Other options: contact CLA-VAL</li> </ul>
<b>Housing &amp; General:</b>	<ul style="list-style-type: none"> <li>• Dimensions: Ø 132 mm x L 130 mm (no antenna, no bracket)</li> <li>• Easy opening system without screws or tools</li> <li>• Material: PC / ABS plastic UV resistant</li> <li>• Protection: IP68 (2 m, 1 month)</li> <li>• Operating Temperature: -10°C to 70°C</li> <li>• Storage Temperature: -20°C to 80°C</li> </ul>





## CLA-VAL Europe AUTOMATIC CONTROL VALVES

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**Seapro SA**  
3 Covora Street  
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Gauteng, 1459  
South Africa

Romanel-sur-Lausanne, Switzerland, August 29th, 2024

### TO WHOM IT MAY CONCERN

This is to confirm that **Seapro South Africa (Pty) Ltd** has been appointed as sole CLA-VAL Waterworks agent in South Africa, since 2018, for the distribution of CLA-VAL Waterworks products in South Africa and in the SADC area.

The Intellectual Property/Drawings/Designs is owned by the CLA-VAL and is so forwarded to Seapro SA.

CLA-VAL products supplied by Seapro South Africa (PTY) Ltd will carry the manufacturer's Warranty.

Should you have any further comments or queries, please do not hesitate to contact us at your earliest convenience.

Yours Faithfully,

**CLA-VAL Europe**  
Hugo van Buel  
Managing Director

**CLA-VAL Europe Sàrl**  
*automatic control valves*  
Chemin des Mésanges 1  
CH-1032 ROMANEL/Lausanne



#### Article 1 : Agreement duration and termination

Subject to Article 6 of Distribution Agreement dated 1<sup>st</sup> of August 2023. This certification is not sellable and none-transferable.

#### Article 2 : Applicable law and jurisdiction

This certification is subject to Swiss Law and the jurisdiction of the Courts of the State of Vaud in Switzerland.

Any dispute, controversy or claim arising out of, or in relation to, this certification, including the validity, invalidity, breach, or termination thereof, shall be resolved by arbitration in accordance with the Swiss Rules of International Arbitration is submitted in accordance with these Rules. The number of arbitrators shall be one. The seat of the arbitration shall be Lausanne in Switzerland. The arbitral proceedings shall be conducted in English.

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