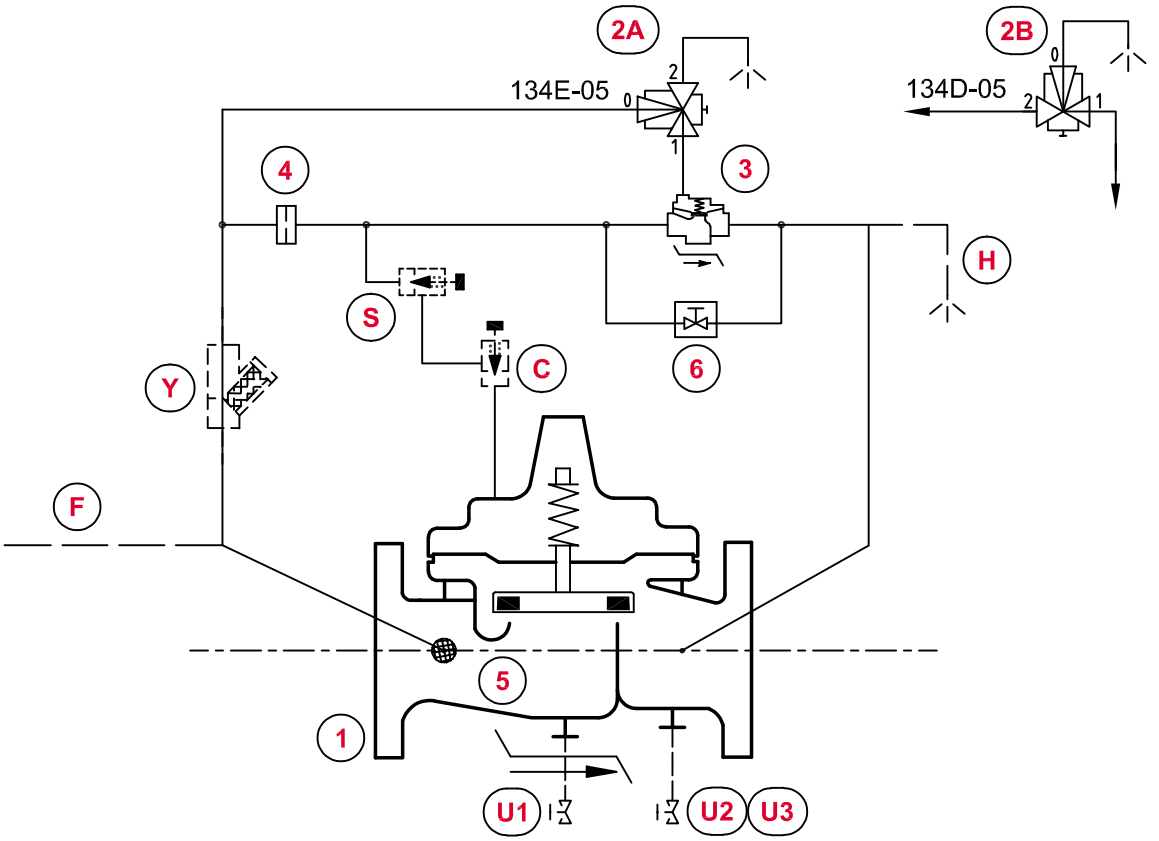
CLA-VAL 134E/D-05

Electrically Actuated Hydraulic On/Off Deluge Valve



STANDARD EQUIPMENT			
No	**Description**	**Qty**	**Type**
1	MAIN VALVE HYTROL-DELUGE AE/GE	1	100G/2100G
2A	3-WAY SOLENOID VALVE (NO)	1	311-D
2B	3-WAY SOLENOID VALVE (NC)	1	311-C
3	AUXILIARY VALVE HYTROL	1	100-01
4	RESTRICTION ASSEMBLY	1	X58
5	FLOW CLEAN STRAINER	1	X46A
6	EMERGENCY MANUAL OPERATOR WITH WARNING LABEL	1	CMD-12

OPTIONAL FEATURES			
No	**Description**	**Qty**	**Type**
C	ONE-WAY FLOW CONTROL (CLOSING SPEED)	1	CV
F	REMOTE SENSING	1	-
H	DRAIN TO ATMOSPHERE	1	-
S	ONE-WAY FLOW CONTROL (OPENING SPEED)	1	CV
U1	UPSTREAM DRAIN VALVE	1	RB-117
U2	DOWNSTREAM DRAIN VALVE	1	RB-117
U3	AUTOMATIC DRIP CHECK	1	ADC-1
Y	STRAINER	1	X43

NOTES

AE/GE : DN 80 - DN 300

(#) = According to valve size this feature type could change

OPTIONAL FEATURES : —— —— —— ——

NOT FURNISHED BY CLA-VAL : —— — ——— — ——

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Operating data

1.1 SOLENOID CONTROL FEATURE

Solenoid control (**2A**) or (**2B**) is a direct acting, 3-way solenoid control valve that applies or relieves pressure in the cover chamber of auxiliary valve (**3**), providing the operation shown in the following table:

134E-05			
Solenoid (**2A**)		Auxiliary valve (**3**)	Main valve (**1**)
State	Ports connected	Position	Position
Energized	1 - 2	Open	Open
De-energized	0 - 1	Closed	Closed

134D-05			
Solenoid (**2B**)		Auxiliary valve (**3**)	Main valve (**1**)
State	Ports connected	Position	Position
Energized	2 - 1	Closed	Closed
De-energized	1 - 0	Open	Open

1.2 SELF-CLEANING STRAINER

The self-cleaning strainer CLA-VAL (**5**) is at the inlet of the main valve (**1**) screwed. The assembly of the self-cleaning strainer (**5**) removes the assembly of an external filter.

The check of the self-cleaning strainer (**5**) is requesting its removal from the main valve body (**1**).

1.3 REMOTE HYDRAULIC CONTROL / EMERGENCY OPENING ON SITE

Open emergency manual operator (**6**) to by-pass the action of the solenoid valve (**2A**) or (**2B**). The main valve (**1**) opens fully.

Note: Emergency manual operator (**6**) must be closed during normal operation.

1.4 OPTIONAL FEATURES

No (**C**) - Closing speed:

Flow control (**C**) regulates the closing speed of main valve (**1**).

Flow control (C) adjustment: Turn the adjusting screw clockwise to make the valve close more slowly.

No (**F**) - Remote sensing:

Remote sensing is obtained from a point upstream of the main valve (**1**) inlet, by a pipe size Ø 12 mm (not furnished by CLA-VAL Europe), which must not have any high points and so formation of air pockets and avoid any pulsation of control.

Note: Independent operating pressure must be equal to or greater than pressure at the main valve inlet at all times.

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No (**H**) - Atmospheric drain:

Pilot system drain line is discharged to atmosphere. [Pilot system drain line is connected to the main valve outlet boss if suffix (**H**) is not specified].

No (**S**) - Opening speed:

Flow control (**S**) regulates the opening speed of main valve (**1**).

Flow control (S) adjustment: Turn the adjusting screw clockwise to make the valve open more slowly.

No (**U3**) - Automatic drip check:

Automatic drip check control (**U3**) will close upon downstream system flow increase and will automatically open when downstream pressure decreases.

No (**Y**) - Y-strainer:

A strainer (**Y**) is installed in the pilot supply line to protect the pilot system from foreign particles. The strainer screen must be cleaned periodically.

1.5 ▸ CHECK LIST FOR PROPER OPERATION

- ☐ System valves open upstream and downstream.
- ☐ Periodical checking of the self-cleaning strainer (**5**).
- ☐ Periodic cleaning of strainer [optional feature (**Y**)] is recommended.
- ☐ Solenoid valve (**2A**) or (**2B**) connected as requested with correct voltage.
- ☐ Manual solenoid valve (**2A**) or (**2B**) override disengaged.
- ☐ Emergency manual operator (**6**) closed.
- ☐ Isolation ball valves [optional feature (**U1**) and (**U2**)] closed during normal operation.
- ☐ Flow control(s) [optional feature (**C**) or/and (**S**)] open at least 1 turn.
- ☐ Remote control line properly connected [optional feature (**F**)].

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