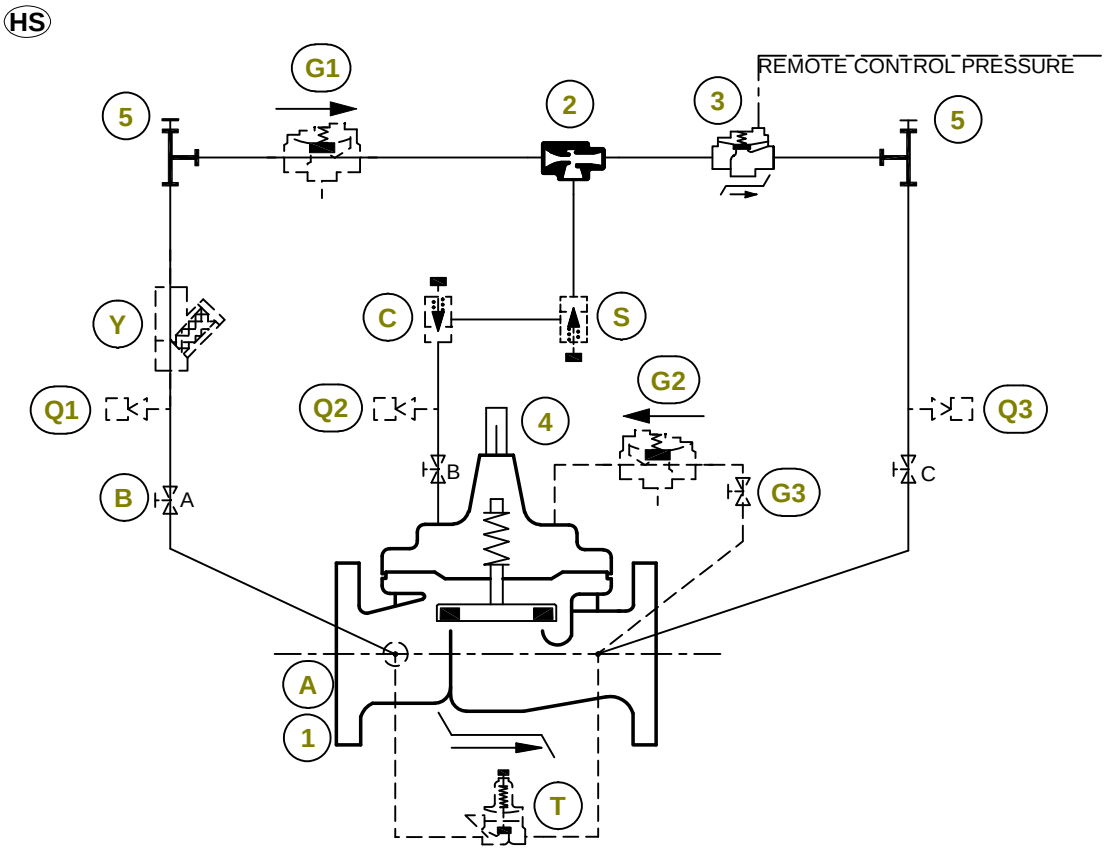
CLA-VAL 413-01

Fuel Discharge Valve



STANDARD EQUIPMENT			
No	**Description**	**Qty**	**Type**
1	MAIN VALVE HYTROL AE/GE/NGE	1	100-34/KR *
2	EJECTOR (12" & smaller)	1	X47-A
3	AUXILIARY VALVE HYTROL	1	100-KHR
4	VALVE POSITION INDICATOR	1	X101
5	PLUG	2	-

OPTIONAL FEATURES			
No	**Description**	**Qty**	**Type**
A	FLOW CLEAN STRAINER	1	X46A
B	ISOLATION BALL VALVE	4	RB-117
C	ONE-WAY FLOW CONTROL (CLOSING SPEED)	1	CV
G	CHECK VALVE	2	81-01
Q	QUICK CONNECT ASSEMBLY	3	-
S	ONE-WAY FLOW CONTROL (OPENING SPEED)	1	CV
T	PRESSURE RELIEF VALVE	1	55F
Y	STRAINER	1	X43

NOTES

AE/GE : DN 32 - DN 400 / NGE : DN 50 - DN 600
(#) = According to valve size this feature type could change
*MAIN VALVE OPTIONS = 9HS999

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

Operating data

1.1 REMOTE CONTROL FEATURE

When pressure is applied to cover of valve (**3**) trough the remote control connection, the main valve will close. When pressure is relieved from cover of valve (**3**), the main valve will open.

1.2 SWITCH ASSEMBLY FEATURE

Switch assembly X101 (**4**) is actuated by a stem extension attached to the main valve stem. The switch assembly is factory adjusted to actuate a single-pole double-throw switch when the main valve is almost open/closed. When the main valve (**1**) starts to close/open, the spring loaded switch actuating lever is released and returns the switch to its normal position.

1.3 OPTIONAL FEATURES

Suffix (**A**) - Flow clean strainer:

A self-cleaning strainer is installed in the main valve inlet body boss which protects the pilot system from foreign particles.

Suffix (**B**) - Isolation ball valve:

Isolation ball valves (**B**) are used to isolate the pilot system from main line pressure.

These valves must be open during normal operation.

Suffix (**C**) - Closing speed control:

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

Flow control (C) adjustment: Turn the adjusting stem clockwise to make the main valve (**1**) close slower.

Suffix (**G**) - Check feature:

When outlet pressure is higher than inlet pressure, check valve (**G2**) opens and permits the higher outlet pressure to close the main valve (**1**), check valve (**G1**) closes and prevents flow out of the main valve cover to the inlet.

Suffix (**Q**) - Quick connect assembly:

Quick connect assemblies (**Q**) let pressure gages be easily connected or disconnected to the valve pilot system.

Suffix (**S**) - Opening speed control:

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

Flow control (S) adjustment: Turn the adjusting stem clockwise to make the main valve (**1**) open slower.

Suffix (**T**) - Thermal relief control:

Thermal relief control (**T**) is a normally closed control that senses pressure changes at the main valve (**1**) inlet. When inlet pressure exceeds the set point of control (**T**) it opens. This permits the greater inlet pressure to flow trough control (**T**) to the outlet and relieve upstream pressure.

Thermal relief control (T) adjustment: Turn the adjusting screw clockwise to increase the setting.

Suffix (**Y**) - Strainer:

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

1.4 ▸ CHECK LIST FOR PROPER OPERATION

- ☐ System valves open upstream and downstream.
- ☐ Air removed from the main valve cover and pilot system at all high points.
- ☐ Cocks [optional feature (**B**) and (**G3**)] open during normal operation.
- ☐ Periodic cleaning of strainer [optional feature (**Y**)] is recommended.
- ☐ Flow controls [optional feature (**C**) and (**S**)] open at least 4 turns.
- ☐ Remote control line properly connected.