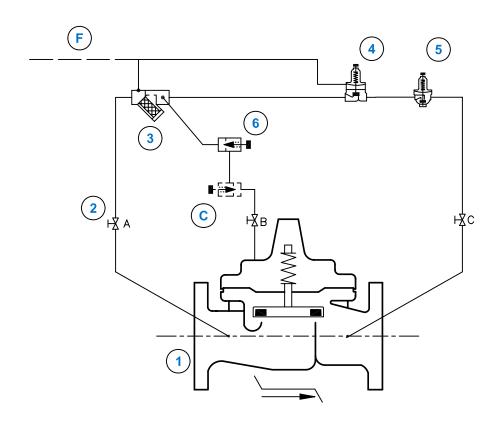


CLA-VAL 92-01

Pressure Reducing Valve and Upstream Pressure Control



	STANDARD EQUIPMENT					
No	Description	Qty	Туре			
1	MAIN VALVE HYTROL AE/GE/NGE	1	100-01			
2	ISOLATION BALL VALVE	3	RB-117			
3	STRAINER WITH INCORPORATED ORIFICE	1	X44-A			
4	PRESSURE RELIEF CONTROL	1	CRL			
5	PRESSURE REDUCING CONTROL	1	CRD			
6	ONE-WAY FLOW CONTROL	1	CV			

OPTIONAL FEATURES				
No	Description	Qty	Type	
F	REMOTE SENSING	1	-	
С	ONE-WAY FLOW CONTROL (CLOSING SPEED)	1	CV	

	NOTES
AE/GE : DN 32 - DN 400 / NGE : DN 50 - DN 600	OPTIONAL FEATURES : NOT FURNISHED BY CLA-VAL :





Pressure Reducing Valve and Upstream Pressure Control

Operating data

1.1 ▶ PRESURE REDUCING FEATURE

Pressure reducing control (5) is a "normally open" control that senses main valve outlet pressure changes. An increase in outlet pressure tends to close control (5) and a decrease in outlet pressure tends to open control (5). This causes main valve cover pressure to vary and the main valve (1) to modulate (open and close) maintaining a relatively constant outlet pressure.

Pressure reducing control (5) adjustment: Turn the adjusting screw clockwise to increase the setting.

1.2 PRESSURE SUSTAINING FEATURE

Pressure relief control (4) is a "normally closed" control that senses main valve inlet pressure changes. Control (4) is open if inlet pressure is higher than the set point of control (4). This places pressure reducing control (5) in command of the main valve (1). If inlet pressure lowers to the set point of control (4), control (4) closes. This pressurizes the main valve cover and the main valve (1) closes, sustaining the desired minimum pressure at the main valve inlet.

Pressure relief control (4) adjustment: Turn the adjusting screw clockwise to increase the setting.

1.3 ▶ OPENING SPEED CONTROL

Flow control (6) regulates the opening speed of main valve (1).

Flow control (6) adjustment: Turn the adjusting screw clockwise to make the main valve open more slowly.

1.4 ▶ (E*) EUROPEAN STANDARDS

ITEM (2) - Isolation ball valve:

The isolation ball valves are used to isolate the pilot system from main line pressure. These isolation ball valves must be open during normal operation.

ITEM (3) - Y-Strainer with incorporated orifice:

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

1.5 ▶ OPTIONAL FEATURES

Suffix (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.

Suffix (F) - Remote sensing:

Remote sensing is obtained from a point upstream of the main valve (1) inlet, by a pipe size Ø 12mm (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.



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1.6 ▶ 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.
Isolation ball valves (2A), (2B) and (2C) open.
Periodical cleaning of the filter screen (3).
Remote control line properly connected [optional feature (F)].