



STANDARD EQUIPMENT

No	Description	Qty	Type
1	MAIN VALVE HYTROL-ACS AE/GE/NGE	1	100-01KO
2	ISOLATION BALL VALVE	3	RB-117
3	STRAINER	1	X43
4B	ONE-WAY FLOW CONTROL (OPENING SPEED)	1	CV
4A	ONE-WAY FLOW CONTROL (CLOSING SPEED)	1	CV
5	PRESSURE REDUCING CONTROL	1	CRD
6	EJECTOR	1	X47-A

OPTIONAL FEATURES

No	Description	Qty	Type

NOTES

AE/GE : DN 32 - DN 400 / NGE : DN 100 - DN 600

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

▶ Operating data

1.1 ▶ PRESURE REDUCING FEATURE

Pressure reducing control CRD (5) is a "normally open" control that senses main valve (1) 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 ▶ OPENING SPEED CONTROL

One-way flow control CV (4B) regulates the opening speed of main valve (1).

Flow control (4B) adjustment: Turn the adjusting screw clockwise to make the main valve open more slowly.

Note: Do not close flow control (4B) completely otherwise the main valve (1) will not close or open (suggested initial setting of needle valve is 1 turn open).

1.3 ▶ CLOSING SPEED CONTROL

One-way flow control CV (4A) regulates the closing speed of main valve (1).

Flow control (4A) adjustment: Turn the adjusting screw clockwise to make the valve close more slowly.

Note: Do not close flow control (4A) completely otherwise the main valve (1) will not close or open (suggested initial setting of needle valve is 1 turn open).

1.4 ▶ STANDARD EQUIPMENT

No (2) - Isolation ball valve:

The isolation ball valves RB-117 (2) are used to isolate the pilot system from main line pressure. These isolation ball valves must be open during normal operation.

No (3) - Strainer:

The strainer X43 (3) 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.
- Air removed from the main valve cover and pilot system at all high points.
- Isolation ball valves (2) open.
- Periodic cleaning of strainer (3) is recommended.
- Flow control (4A) and (4B) open from 1 turn.