



STANDARD EQUIPMENT

No	Description	Qty	Type
1	MAIN VALVE HYTROL AE/GE/NGE	1	100-01
2	ISOLATION BALL VALVE	3	RB-117
3	STRAINER	1	X43
4	RESTRICTION ASSEMBLY	1	X58C-CSA
5	PRESSURE REDUCING CONTROL	1	CRD-R
6	NEEDLE VALVE	1	6120
7	AUXILIARY VALVE HYTROL	1	100-KHR
8	PRESSURE RELIEF CONTROL	1	CRL-7

OPTIONAL FEATURES

No	Description	Qty	Type

NOTES

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

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

▶ Operating data

1.1 ▶ PRESSURE RELIEF FEATURE

Pressure relief control CRL (8) remains closed when upstream pressure is less than the set point of control (8). When upstream pressure exceeds set point of control (8), it opens.

The auxiliary valve 100-KHR (7) is under command of pressure relief control (8). When control (8) opens, the auxiliary valve (7) opens too. This relieves pressure from the main valve cover and the main valve (1) opens fast until normal upstream pressure is restored.

Pressure relief control (8) adjustment: Turn the adjusting screw clockwise to increase the setting.

1.2 ▶ CLOSING SPEED CONTROL

Pressure reducing control CRD (5) and needle valve 6120 (6) control the closing speed of the main valve (1). Pressure reducing control (5) remains open when upstream pressure is lower than low pressure set point. When inlet pressure exceeds the low pressure set point, pressure reducing control (5) closes, which blocks the closing of main valve (1).

Needle valve (6) controls the closing speed of the main valve (1).

Needle valve (6) adjustment: Turn the adjusting stem of control (6) clockwise to make the main valve close more slowly.

Note: Do not close needle valve (6) completely or the main valve (1) will not open (suggested initial setting of needle valve is 1 turn open).

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

Note: Pressure reducing control (5) recommended setting is 1 bar less than pressure relief control (8).

1.3 ▶ 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.

1.4 ▶ 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.
- Isolation ball valves (2) open.
- Periodic cleaning of strainer (3) is recommended.
- Needle valve (6) open at least 1 turn.
- Remote control line properly connected to isolation ball valves (2A).