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INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS

'ROMA' TYPE 'C' FIG 513 PRESSURE REDUCING VALVES

APPLICATION

The valves are fitted wherever system pressure requires reducing.

DESCRIPTION

The Type 'C' Fig. 513 Pressure Reducing Valve is direct acting, single seated, piston controlled and spring regulated.

OPERATION

Downstream pressure acting upon the piston controls the opening or closing of the valve in accordance with the balancing force applied above the piston by the regulating spring.

INSTALLATION

The valve is self contained and requires no external connections.

- The pipeline should be flushed prior to installation - foreign particles are a common cause of initial problems with control valves.
- Preference should be given to mounting in a horizontal pipeline.
- It is recommended that the valve be protected with a fine mesh strainer.
- Isolating valves, relief valve and pressure gauges should be installed for proper maintenance, protection and operation.

MAINTENANCE

Most maintenance can be performed without removing the valve from the pipeline.
Before carrying out any maintenance, isolate the valve and release any pressure in the line.

TO OVERHAUL

- Release regulating spring load by rotating adjusting screw anti-clockwise.
- Remove the spring cage by rotating anti-clockwise with a suitable 'C' spanner.
- Remove bottom cap by rotating anti-clockwise.
- With a suitable socket spanner, hold the valve spindle by the lower nut and unscrew the nut above the piston.
- The spindle may now be withdrawn from the valve body.
- Examine all 'O' rings and the piston 'U' seal for damage or wear, and replace if necessary.
- Check the bores in the liner, and polish if not smooth.
- Check that the spindle and piston travel freely.
- Assembly is the reverse of dismantling
- Lubricate 'O' rings and moving parts with Dow Corning No 4 Compound or similar product.



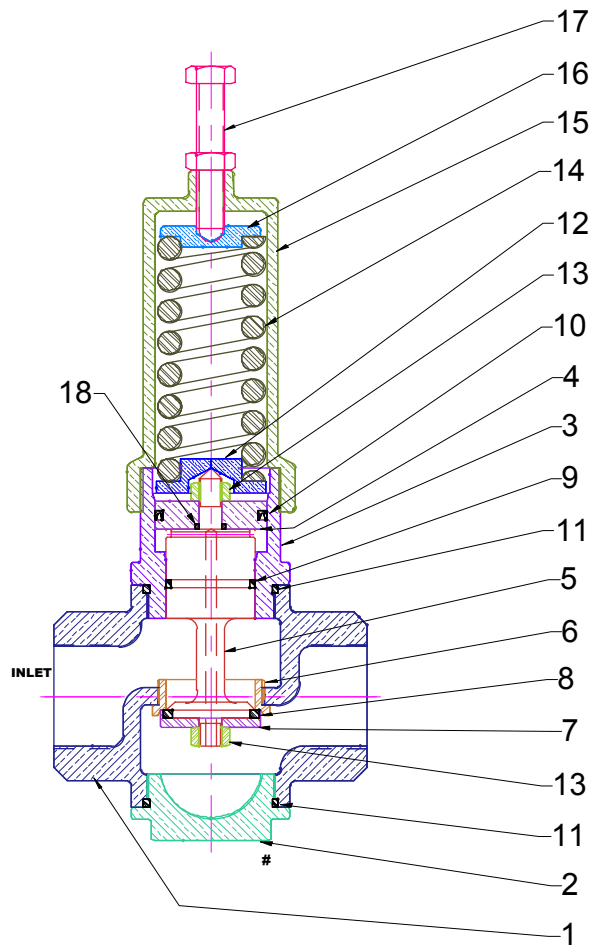
- Note assembly order of all parts.

COMMISSIONING

- Release any loading on adjusting screw.
- Admit upstream pressure, then open the downstream isolating valve.
- Screw the adjusting screw down slowly to obtain the required pressure downstream. Allow the installation to operate, and fine tune if necessary.

RECOMMENDED SPARES

When ordering spare parts please supply valve serial number and size.



'ROMA' Fig 513 Pressure Reducing Valve	
1	Body
2	Cap
3	Liner
4	Piston
5	Spindle
6	Seat
7	Retaining Disc
8	Disc Seal
9	Spindle Seal
10	Piston U-seal
11	Body O-rings
12	Lower Spring Pad
13	Spindle Nuts
14	Regulating Spring
15	Spring Cage
16	Upper Spring Pad
17	Adjusting Screw
18	Piston O-rings