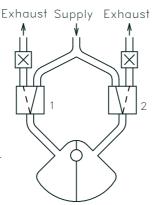
P3 POSITIONER OPTIONS - PNEUMATIC CIRCUITS

(1) DOUBLE-ACTING FAIL-FREE

Flow Regulator/Silencers

3/2 Solenoid Valves

Actuator



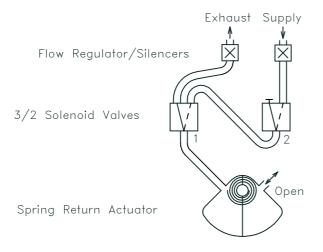
Solenoid Valve Air Paths:

——— De—energised

---- Energised

To drive clockwise — Energise Valve 1
To drive anticlockwise — Energise valve 2
To hold position — De-energise both valves

(2) FAIL-SAFE SPRING-RETURN



Solenoid Valve Air Paths:

—— De-energised
---- Energised

To drive anticlockwise (air stroke)

Energise both valves

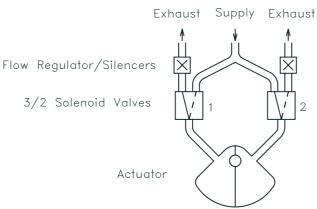
To drive clockwise (spring stroke)

- De-energise both valves

To hold position — Energise valve 1

Loss of air pressure valves de-energise

(3) DOUBLE-ACTING FAIL-DOWN



Solenoid Valve Air Paths:

—— De-energised

---- Energised

To drive anticlockwise (Upscale)

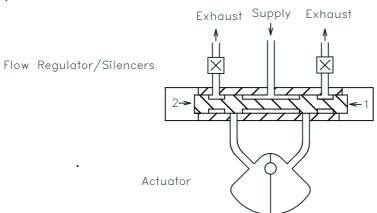
- Energise both valves

To drive clockwise (Downscale)

- De-energise both valves

To hold position — Energise valve 1

(4) DOUBLE-ACTING FAIL-HOLD



5/3 Centre closed dual solenoid spool valve (centred by spring, drawn in central de-energised position)

To drive anti clockwise — Energise Valve 1 To drive clockwise — Energise valve 2 To hold position — De—energise both valves

E-AR4918, F-AR6406

> ISSUE F

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