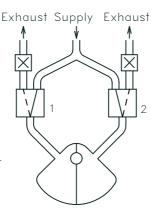
P3 Exd POSITIONER OPTIONS - PNEUMATIC CIRCUITS

(1) DOUBLE-ACTING FAIL-FREE

Flow Regulator/Silencers

3/2 Solenoid Valves

Actuator

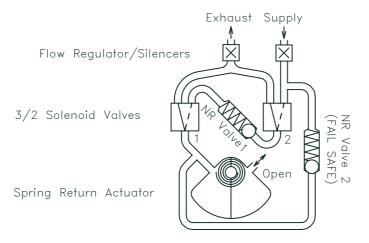


Solenoid Valve Air Paths:

—— 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

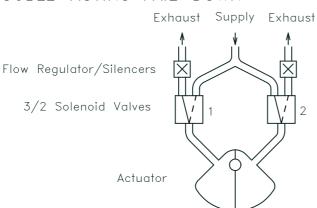
To drive clockwise (spring stroke)

De-energise both valves

To hold position — Energise valve 1

Loss of air pressure NR valve 2 opens and spring returns

(3) DOUBLE-ACTING FAIL-DOWN



Solenoid Valve Air Paths:

De-energised

---- Energised

To drive anticlockwise (Upscale)

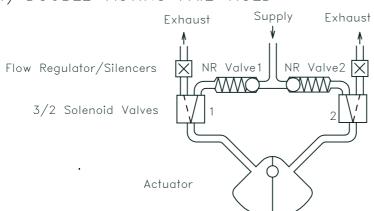
- Energise both valves

To drive clockwise (Downscale)

- De-energise both valves

To hold position — Energise valve 1

(4) DOUBLE-ACTING FAIL-HOLD



---- Energised

To drive clockwise - Energise Valve 1

To drive anticlockwise - Energise valve 2

To hold position — De-energise both valves

ISSUE A NKS 29-03-10 KINETROL

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