

Circuit 1

PART REFERENCE PT4XX

Timing Start - True Off Delay

Removal of pilot pressure from control port C.

Reset - True Off Delay

By applying pilot pressure to control port C.

Function - True Off Delay

On applying air to control port C, the timer valve moves to an energised position. On removal of air from control port C the timer valve remains in its energised position for the selected time and then returns to its spring position on time out.

Sequence - True Off Delay

On pressing the pushbutton the cylinder outstrokes. On release of the pushbutton the cylinder remains outstroked until the set time has elapsed and then the cylinder returns to its spring condition. The cylinders speed of return is controlled by an exhaust restrictor.

Part References (Example PT41H)

PT41 Off delay vertical surface mount

PT45 Off delay horizontal panel mount

Time Ranges Available

A = 0.1 - 1.0 Seconds B = 0.5 - 5.0 Seconds C = 1.5 - 15.0 Seconds
 D = 5.0 - 50.0 Seconds E = 20.0 - 200.0 Seconds K = 1.0 - 300.0 Seconds
 F = 1.0 - 10.0 Minutes H = 3.0 - 30.0 Minutes I = 6.0 - 60.0 Minutes

PART REFERENCE PT3XX

Timing Start - On Delay

Application of pilot pressure to control port C.

Reset - On Delay

By removal of pilot pressure from control port C.

Function - On Delay

On applying air to control port C, the timer valve remains in its spring condition and switches to its energised position on time out. The valve will remain in its energised position until removal of air.

Sequence - On Delay

On pressing the button timing will begin. The cylinder outstrokes on timeout and returns to its spring condition on removal of air. The cylinders speed of return is controlled by an exhaust restrictor.

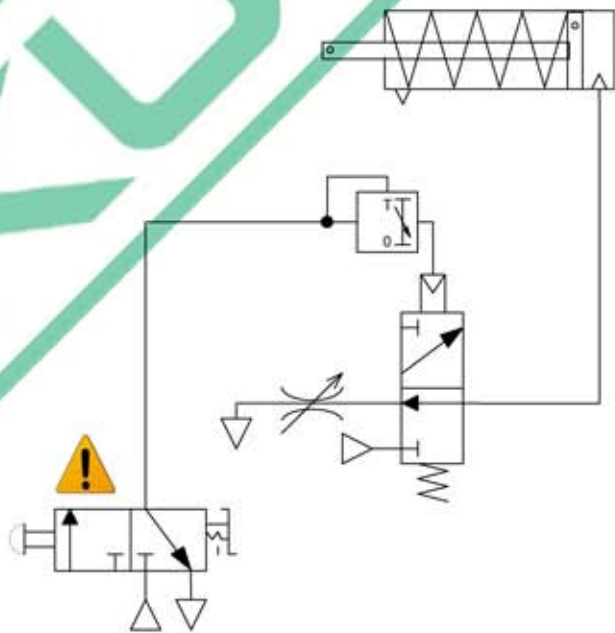
Part References (Example PT31H)

PT31 On delay vertical surface mount

PT35 On delay horizontal panel mount

Time Ranges Available

A = 0.1 - 1.0 Seconds B = 0.5 - 5.0 Seconds C = 1.5 - 15.0 Seconds
 D = 5.0 - 50.0 Seconds E = 20.0 - 200.0 Seconds K = 1.0 - 300.0 Seconds
 F = 1.0 - 10.0 Minutes H = 3.0 - 30.0 Minutes I = 6.0 - 60.0 Minutes



Circuit 2

CAUTION:



Upon applying air system may start automatically.

NOTES:

Clean dry non lubricated air to be used.
 Timers should never be adjusted while in operation.
 Pressures should not exceed timer specification.

These circuits have been designed as a concept/theory only. It is your responsibility to ensure that these details comply will all safety standards and regulations. We cannot accept responsibility for it's application. Pneumatic cylinders have been used to illustrate output functionality only. Schematic diagrams shown here may vary from actual parts supplied, although functionality will remain the same.

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Date : 30th January 2008
 Drawing Number 0010056

Title: How PT Timers Work

www.thetimerandcountercompany.com

REVISION

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