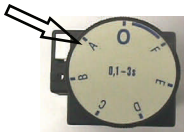
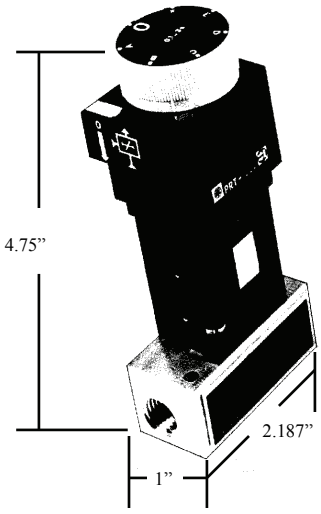
RAPID CONTROL SERVICE, INC.
Partners In Automation Since 1964
PNEUMATIC / ELECTRICAL / RESISTANCE WELDING
Phone: 616-538-1111 WATTS: 1-800-632-1857 Fax: 616-538-6847
Website: www.rapidcontrol.com E-Mail: sales@rapidcontrol.com

PNEUMATIC TIMER

Easy to read dial





Rapid Pneumatic Timer

- ⇒ **Snap acting poppet design operates on lubricated or non-lubricated or dry air**
- ⇒ **Timing unaffected by contaminants or fluctuations in air line pressure**
- ⇒ **Accurate +- 2% repeatability**
- ⇒ **Pressure range 40 - 120 PSI**
- ⇒ **Temperature range 5* - 140* F**
- ⇒ **40 micron filtration recommended**
- ⇒ **High Flow (1.7 Cv)**
- ⇒ **Sub-base design for fast, easy replacement with out disturbing piping**
- ⇒ **1/4" female NPT ports**

PART NUMBER	TIME	N.C. / N.O.	PRICE	
Normally Closed				
RC-PRT-E10	.1 - 3 Sec	N.C.	$170.68	Stock
RC-PRT-A10	.1 - 30 Sec	N.C.	$170.68	Stock
RC-PRT-B10	10 - 180 Sec	N.C.	$170.68	Stock
Normally Open				
RC-PRT-F10	.1 - 3 Sec	N.O.	$170.68	Stock
RC-PRT-C10	.1 - 30 Sec	N.O.	$170.68	Stock
RC-PRT-D10	10 - 180 Sec	N.O.	$170.68	Stock

2479 28th Street S.W. - Grand Rapids, MI - 49519

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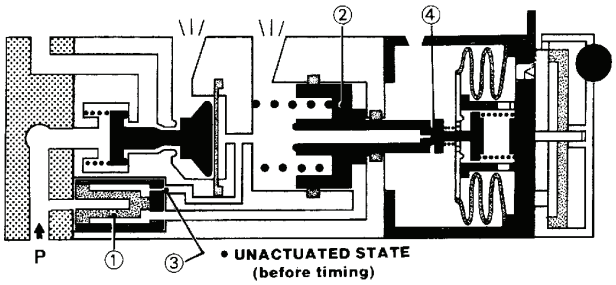
PNEUMATIC TIMER

Operating Principle (On Delay NC)

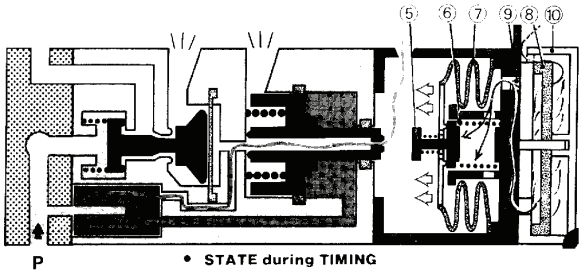
OPERATING PRINCIPLE

The time delay is entirely pneumatic. Air supply to the timing head is taken from ambient atmosphere. The timing function is therefore independent of line pressure. As a result, repeatability is unaffected by variations in supply pressure, temperature, or contamination of supply.



♦ SET

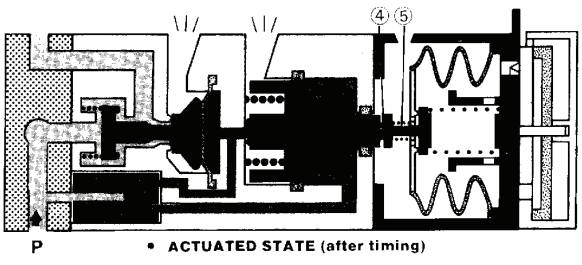
Signal "A" appears at input orifice in sub-base and is divided into two separate signals after filter **1.**
The first signal cocks piston **2** and timing begins.
Simultaneously the second divided signal flows through fixed orifice **3** and supplies bleed at orifice.



♦ TIMING

Poppet **5,** attached to bellows **7** and release by piston **2,** start to extend at a rate determined by the amount of delay required. Bellows **7** rate of extensions controlled as follows:

Spring **6** pushes bellows out. To ex tend, bellows draws atmosphere air through filter **8** and circular channel **9 .** Length of channel **9** varies as a function of angle, determined by knob **10** .



♦ OUTPUT

When bellows **7** reaches the end of its travel, poppet **5** seals off bleed from orifice **4**, causing a rise in pressure and, as a result relay switches. Output S appears, supplied by pressure P

♦ RESET

Removing input signal "A" automatically resets the time delay relay. Output S disappears.

Further Information Contact
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