



TIME RANGE	MODEL
0.3 to 10 secs.	54021
3 to 100 secs.	54022
0.3 to 10 mins.	54023
3 to 100 mins.	54024
0.3 to 10 hrs.	54025
3 to 100 hrs.	54026

OPERATION:

The 54-Series timer is a totally pneumatic timer with +/- 1% FS repeatability. Timing is fully adjustable throughout the timing range by turning the front dial. The front dial displays both set time and time remaining in the time cycle. The timer is supplied with a 4-way (5 ported) output valve. Timing begins by applying continuous specified pressure to the control port 12. At the end of the delay period, 4-way valve transfers and remains in this position until pressure is removed. When control port pressure is removed, timer resets and output valve returns to its initial (normal) position. Removing continuous pressure during the timing cycle will reset the timing mechanism for another full delay period upon re-pressurization.

PORT IDENTIFICATION:

12 - Timer control port

VALVE PORTS

- 1 - System air supply
- 2 - Valve output at end of timing
- 3 - Exhaust for port 2
- 4 - Valve output during timing
- 5 - Exhaust for port 4

Timer valve is 4-way (5 ported). Valve is supplied from factory plugged with a cap nut in port 4 for post timing output. For output during timing move plug to port 2. For full 4-way operation remove nut.

ELLIS/KUHNKE CONTROLS					
DRAWN BY	EJL	5/25/00	54 - SERIES		
CHECKED			PNEUMATIC TIMER		
ISSUED			SIZE	FSCM NO.	DWG. NO.
			B		54 SERIES
			SCALE	4:1	SHEET 1 of 2

TECHNICAL SPECIFICATIONS:

Timer Control Operating Pressure:
20 to 145 PSI (1.2 – 10 bar)

Output Valve Operating Pressure:
0 to 145 PSI (0 – 10 bar)

Output Valve:
4-way (5 ported)
Cv – .13
Flow – 7 cfm @ 100 PSI
Orifice size – 2 mm

Connections:
10–32 (M5) ports

Media:
Filtered Air or non-agressive gas (non-lubricated)

Indicators:
Displays set time and remaining time
before valve actuation.

Time Setting:
Via front knob

Setting Accuracy:
+/- 2%

Repeatability:
+/- 1% of Full Scale

Operation:
On delay – delay on continuous pressurization
Independant air motor. Air consumption 0.35 CFM.
Output air piloted 4-way valve.

Reset:
Automatic – by removal of control timing pressure.

Reset Time:
Approximately 200 milliseconds

Operating Ambient:
14°F to 140°F (-10°C to 60°C)

Materials:
Polycarbonate cover
Cast aluminum housing
Nylon, acetal, brass and stainless steel alloy mechanism.

Dimensions:
Bezel – 2 13/16 inches
Overall – 2 5/8W x 2 5/8H x 5 3/8 inches.
Panel Depth Protrusion – 4 3/8 inches
Panel Projection – .945 inches

Panel Cutout Required:
2 5/8 inches Square

Mounting:
locking spring clips (2 Supplied)

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DRAWN BY	EJL	10/18/02	54 – SERIES		
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ISSUED			SIZE	FSCM NO.	DWG. NO.
			B		54 SERIES
			SCALE	4:1	SHEET 2 of 2