

PARTS LIST

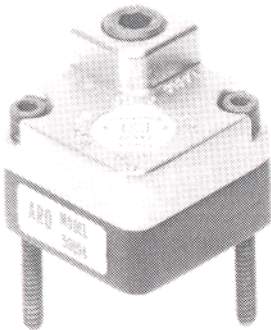
ARO PNEUMATIC LOGIC CONTROL LOGIC FUNCTION ASSEMBLY

MODEL 59094

FORM 4928

REV. 3/88

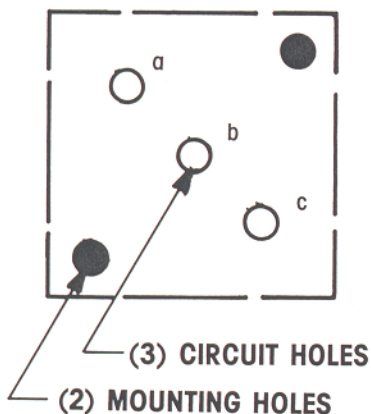
"CHECK" LOGIC ELEMENT



VALVE SYMBOL	VALVE FUNCTION	PORT DESIGNATION
<p style="text-align: center;">b-blocked</p>	<p>Flow a → c only</p> <p>check c to a</p>	<p>a = input b = blocked c = output</p>

For other Functions see Technical Manual

CIRCUIT PATTERN



**NOTE: THIS ELEMENT CAN BE
ROTATED 180° SO POSITION a,
b, c BECOMES c,b,a**

DESCRIPTION

This element performs the logic function "CHECK" with one input and one output. The element has three bottom ports which are designated a,b,c and are marked on the cover to correspond to their position on the base. These ports connect to the circuit board or function bases and through circuit passages in the circuit module allow the required circuitry to be performed.

OPERATING PRESSURE RANGE

30 to 150 P.S.I.G.

TEMPERATURE RANGE

+32°F to +160°F

RESPONSE TIME

"a" ON → "c" On 7.5 MS.

FLOW CHARACTERISTICS

Flow a → c at 100 P.S.I.G. = 9.3 C.F.M. free air
Capacity Factor $C_v = 0.14$.

INSTALLATION

Pressure regulation is recommended for applications where optimum repeatability is required.

Lubrication is not required.

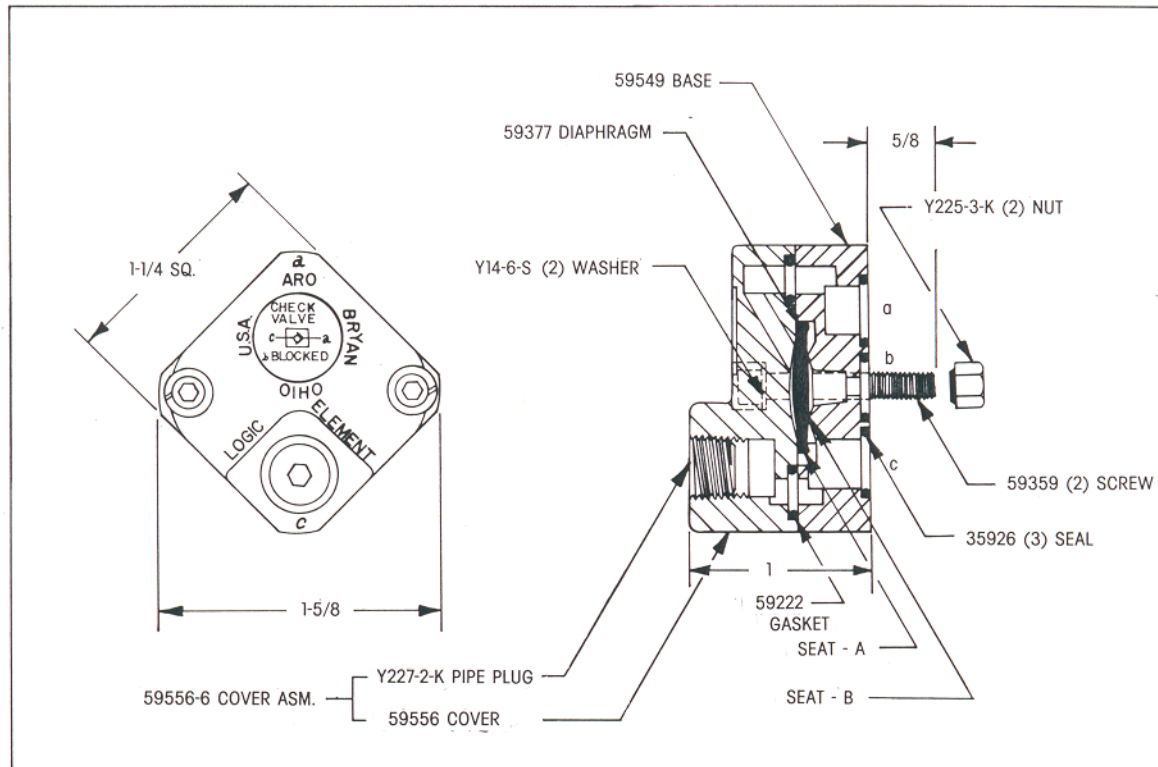
Filtration is recommended to assure a clean, dry air supply for optimum repeatability.

OPERATING DESCRIPTION

The flexible diaphragm touches both seat A and B. Pressure from input "a" will force the diaphragm from its seat, thereby pressurizing output "c" (ON). When input "a" is removed, the diaphragm reseats thus trapping output "c".

Screws 59359 thread into the base to assemble element, but also extend beyond the base for insertion into mounting holes of circuit board assembly (or function bases). Nuts Y225-3-K are used to attach assembly to circuit board. 35926 seals provide sealing between circuit base plate and element ports.

PARTS LIST



***Parts included in repair kit**

SERVICE (Use Repair Kit No. 58161)

In the event of a malfunction:

Check diaphragm 59377 for rupture or defects.

Check seat a for damage.

Check 59222 gasket and 35926 seals for imperfections if external leakage occurs.

Testing (element mounted on function base; b- blocked).

Apply pressure at port a, flow appears at port c.

Apply pressure at port c, no pressure or flow at port a.