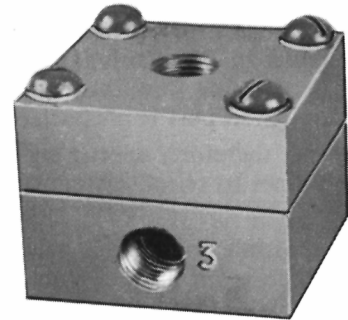


Selector Valve 99182-B1

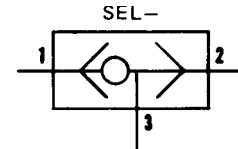
GENERAL DESCRIPTION

This simple and compact three-way valve "selects" a pneumatic signal from one of two admission ports, blocks the other admission port, and directs air flow through the discharge port. It is particularly suited for performing "sequence" functions in a pneumatic engine safety control system.



SPECIFICATIONS

Construction:..... Aluminum Body;
neoprene-coated nylon diaphragm.
Connections:1/8" NPT (female).
Air Pressure:25 ±5psi.
Maximum Over-Pressure Rating:.....100 psi
Minimum Transfer Pressure:2 psi.



J.I.C. Symbol

INSTALLATION

A. GENERAL

Tubing and fittings used to connect valve must be free of chips, dirt, moisture and other foreign matter. It is recommended that an "anti-seize" type thread compound be applied to the second or third male thread in moderate amount. Do not allow compound to be deposited inside of valve.

For continuous, trouble-free operations, supply to the valve must be clean and dry.

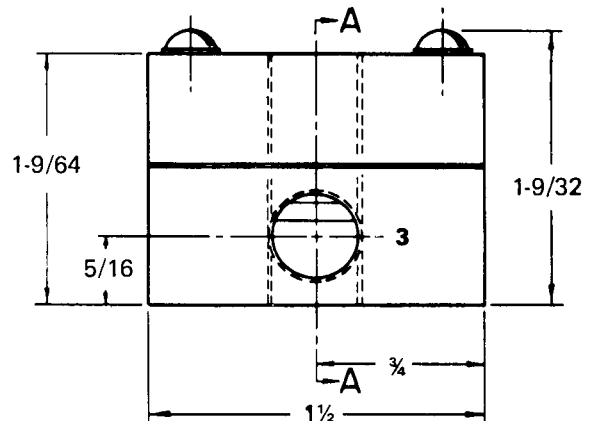
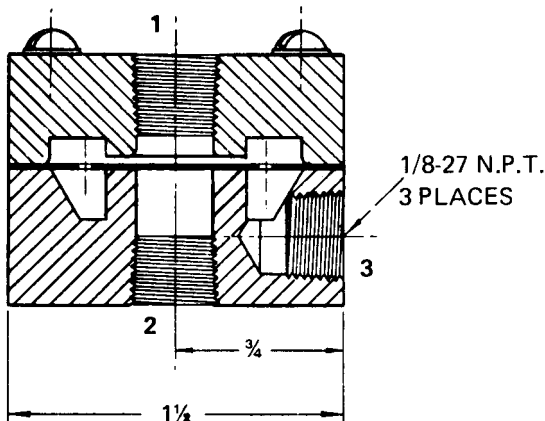
B. MOUNTING

When installing the No. 99182-B1 Selector Valve, care must be taken to prevent any foreign matter from entering ports.

The valve may be installed in any position and should be securely mounted.

C. CONNECTIONS

For connections, consult system schematic.



OPERATION

In the event of the admission of a pneumatic signal from admission port No. 2, the nylon diaphragm moves under the impact force of the air stream to close the unpressurized No. 1 admission port, and a free egress of air from discharge port No. 3 occurs. Should admission port No. 1 be pressurized, the reverse-action of the diaphragm then blocks the unpressurized No. 2 admission port and free egress of air from discharge port No.3 occurs. Four slots in the diaphragm outside the port sealing area permits air flow through the diaphragm when No. 1 admission port is pressurized.

This valve can, therefore, select a signal from one of two air supply lines to selectively activate a pneumatic circuit.

While it is possible to use this selector valve with components other than those we manufacture, it is strongly recommended that Robertshaw components be used, since orifice sizes and flow characteristics are carefully matched. Supply air must be clean and dry.

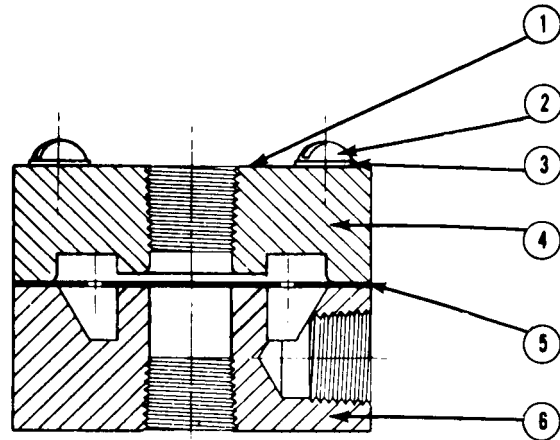
MAINTENANCE

- A. If excessive leakage occurs at valve seat, remove bottom cap and clean interior with a soft, dry cloth.
- B. If valve does not function properly due to contamination by foreign matter disassemble and clean all metal parts with non-flammable solvent and dry thoroughly.
- C. After reassembly, check for external leakage and retighten assembly screws as necessary. Gasket cement should not be used to seal leaks due to the possibility of clogging small passages and orifices elsewhere in the system or possible damage which might change the operational characteristic of the diaphragm.

CAUTION

If cleaning is required, do not subject diaphragm to cleaning fluid, acetone or any halogenated hydrocarbons such as degrease liquids, etc. Clean only with a soft, dry cloth.

PARTS LIST



Item No.	No. Req'd	Description	Part No.
1	1	Name Plate	28077-B1
2	4	Screw	33713-A1709
3	4	Lock Washer	36600-L0609
4	1	Body, Upper	25669-B1
5	1	Diaphragm	25668-A1
6	1	Body, Lower	25670-B1

Robertshaw

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