

MIL 776 Air Lock Relay





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Introduction

MIL 776 Air Lock Relay is highly effective in holding the air in lock condition, when there is supply failure in the instrument pneumatic line, thereby keeping the control valve in stay-put condition. The design is very compact and offers flexibility for panel mounting as well as mounting on control valves.

Technical Information

Working Principle

The instrument is spring loaded and in the normal operating condition, an equilibrium is established between the signal pressure (instrument supply pressure) and spring force, any offset caused by the reduction in signal pressure will make the inlet valve close due to the spring force. This closed condition will continue until the signal pressure is re-established to the original level.

The soft seated design ensures a bubble-tight shut-off signal failure.

The nylon reinforced diaphragm and the specially selected internal components are designed for years of trouble free performance and easy servicing.

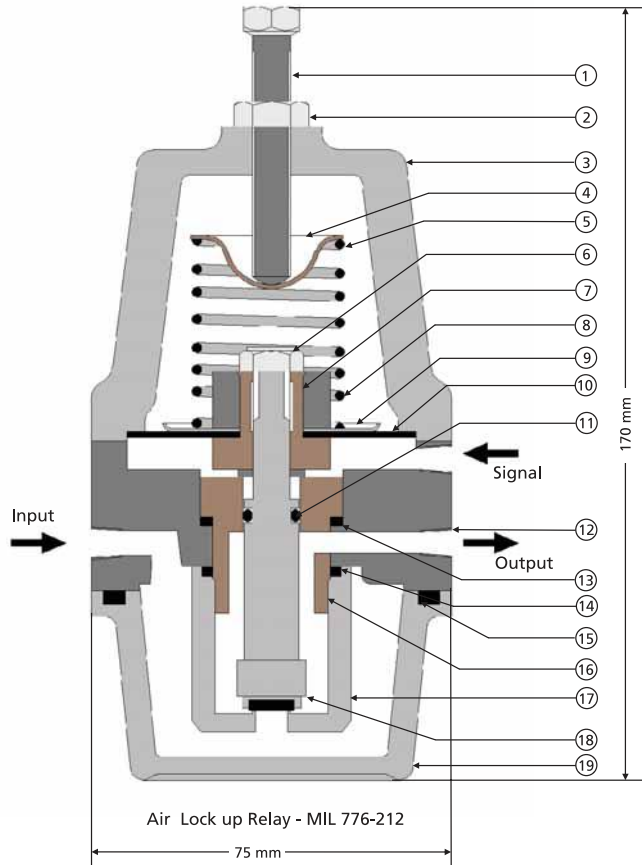
MIL 776 has a modified version to achieve FLDC (Fail Lock Drift Close) / FLDO (Fail Lock Drift Open). For this option, if there is a failure in the instrument pneumatic line, valve will close to normal air failure position slowly.



General Data

Maximum Inlet pressure	: 250 psi
Set pressure	: 5 - 100 psi
Ambient temperature	: -20 °C to 80 °C
Pneumatic connection	: 1/4", 1/2" NPT(F)
Signal connection (from supply)	: 1/4 " NPT(F)
Body material	: Die cast Aluminium
Diaphragm material	: Nylon insert Neoprene
Spring material	: Spring Steel
Weight	: 800 gms

Construction and Dimensions (mm)



Parts of Construction

REF.No	PART NAME
1	ADJUSTING SCREW
2	LOCKING NUT
3	SPRING CASE
4	UPPER SPRING SEAT
5	SPRING
6	NUT
7	DIAPHRAGM INSERT
8	SOCKET
9	DIAPHRAGM PLATE
10	DIAPHRAGM
11	O RING
12	BODY
13	O RING
14	O RING
15	O RING – BODY CAP
16	BODY INSERT
17	INSERT RETAINER
18	PILOT VALVE
19	BODY CAP

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