

MAC Drop-in Solution for Tetra Pak® TBA-9 Filling Machine



Application Description

- Drop-in solution to replace the OEM supplied valves on Tetra Pak® TBA-9 filling machines.
- ISO 1 Valve controls forming retort pouch for filling and packaging (Includes removal of defective products).







Challenges

- The valve body and O-ring are easily damaged.
- OEM supplied valve design flaw creates easy contamination, which causes the valve to shut down.
- OEM supplied valve response time is inaccurate which causes production downtime.
- Need to disassemble the components for maintenance each month.
- OEM supplied valve is not easy to assemble and disassemble.

MAC Solutions

Bar: ISO 1

Valves: MV-B1A-AAAA-DM-DDAJ-1KA Mod. EK58

Customer Benefits

- Resistance to contamination eliminates blockage in the valve.
- Fewer parts equal easy maintenance and part replacement.
- Low friction and wiping function.

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Cost Savings

- All-in-one design makes it easy to replace, which reduces replacement cost (a KA type connector is designed by MAC.)
- Reduces production downtime caused by valve failure, so the daily production rate is increased and defect rate is decreased.

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MAC Drop-in Solution for Tetra Pak® Filling Machines



Technical Data

Fluid:

Pressure range:

Pilot pressure:

Lubrication:

Lubrication

Filtration:

Temperature:

Flow (at 6 bar, \triangle P=1bar):

Coil:

Voltage range:

Response times:

Compressed air, vacuum, inert gases

Vacuum to 8 bar

Single operator: 1,3 to 8 bar

Not required, if used select a medium aniline point lubricant (between 80°C and 100°C)

40u

-18°C to 50°C

1800 NI/min

Epoxy encapsulated - class A wires - Continuous duty

-15% to +10% of nominal voltage

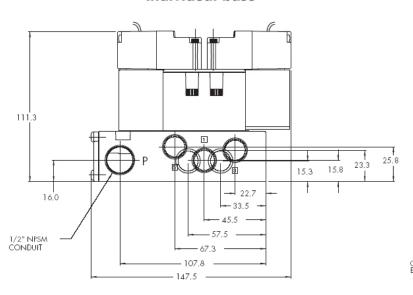
Energize: 11,3 ms De-energize: 7,8 ms

Response Times Comparison

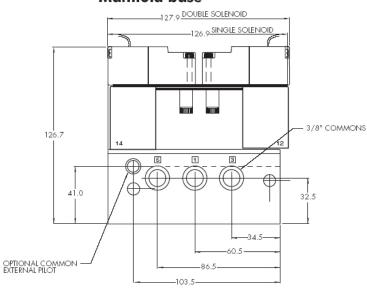
	Pressure	Energization time (ms)	De-energization time (ms)	Total variation (ms) @E + @DE"
MAC ISO 1	2 bar	8,4	6,6	
	4 bar	8,4	6,8	0,2
	6 bar	8,4	6,8	
OEM supplied ISO 1 valve	2 bar	20,8	22,8	4,4
	4 bar	18,4	22,8	
	6 bar	16,8	23,2	

Dimensions

Individual base



Manifold base



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