

MEC™ Full Internal Back Pressure Check Valves for Flanged Installation

DESCRIPTION

Full internal back check valves are designed for liquid filling service applications where the tank flange is constructed with internal NPT threads and not configured to accept a traditional threaded back check valve assembly. The high flow rate design ensures maximum transfer efficiency while minimizing pump cavitation.

If vapor riser piping (Spray fill) is utilized in conjunction with these full internal back check valves to direct flow into the vessel vapor space, the riser pipe diameter must be a minimum of two times the valve thread connection size to ensure no restriction in flow through the side openings on the back check valve.

The full internal flange mounted configuration allows for easy serviceability by dropping the flange connection while completely enclosing the back check device within the flange for enhanced protection during a fire event. The full internal configuration also ensures that no piping loads or stresses are imposed onto the back check device as it is captured between the mating flanges joint.



FEATURES

- Precision machined
- Generous flow channels provide low pressure drop, minimizing pump cavitation
- All stainless steel construction ensures long service life
- Speeds up filling operations in bulk plant operations

Part No.	Flange Connection (MNPT)	Liquid Propane Flow Differential Pressure (GPM)		Overall Length	Threaded End to Port	Installation Hex Tool	Weight (lbs)
		5 PSIG	10 PSIG				
ME3400-16	2"	224	326	5-1/8"	1-3/4"	MEP200FIR	1.8
ME3400-24	3"	460	650	5-1/2"	1-13/32"	MEP300FIR	3.6



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 Fax 269-781-8340 or E-mail: sales@marshallexcelsior.com
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