ACK Check Valve ACK Check Valve ACK Check Valve

For All Commercial AC & Refrigeration Applications

The Emerson® ACK Check Valve







Product Overview

- Magnetic Checking Action
- Near Zero Internal Leak Rate
- Hermetic Construction
- 1/4" through 2-5/8" Connections
- Built-in 30 Mesh Stainless Steel Strainer
- UL/CUL Approved (File # SA 5312)
- Can Be Installed in Any Position
- Installs with Hard or Soft Solder
- Drop-in Dimensions for Competitive Models

Applications

- Compressor Discharge Lines
 - Prevents flow from condenser to compressor during off-cycle
 - Prevents flow from operating compressor to idled compressor
- Liquid Lines
 - Prevents reverse flow through unused metering device on heat pump
 - Prevents backup in low pressure line of recirculating system during defrost

Feature	Function	Benefit	
Hermetic design	Provides a permanent seal	Will not leak	
100% copper construction	Improves system connection	Easier brazability	
Identical lay-in to competition	Simplifies system installation	Interchangeability	
30 mesh stainless steel inlet screen	Captures system debris	Seat surface protection	
Magnetic actuation	Closes valve securely	Operational in any position	





Ordering Information

PCN	Description	Connection Size	A (in.)	B (in.)	C (in.)	D (in.)	Opening Pressure (oz./sq. in.)	MWP (psig)	Leak Rate CIM @ 60 psi	Nominal Tons R-22 Suction 40°F @ 1 psi	Nominal Tons R-22 Liquid 40°F @ 1 psi
064985	ACK-4	1/4 ODF	4	7/8	.254 ± .002	0.19	1.2	800	0.015	0.4	2.6
064986	ACK-6	3/8 ODF	4	7/8	.379 ± .002	0.40	1.3	800	0.015	0.6	3.1
064987	ACK-8	1/2 ODF	5	1-1/8	.504 ± .002	0.31	3.5	680	0.034	1.2	9.4
064988	ACK-10	5/8 ODF	5	1-1/8	.629 ± .002	0.50	3.5	680	0.034	1.4	13
064989	ACK-12	3/4 ODF	7	1-5/8	.754 ± .002	0.63	3.8	680	0.074	3.3	27
064990	ACK-14	7/8 ODF	7	1-5/8	.879 ± .003	0.75	3.8	680	0.074	3.7	29
064991	ACK-18	1-1/8 ODF	8-3/8	2-1/8	1.130 ± .003	0.94	6.8	680	0.122	6.0	51
064992	ACK-22	1-3/8 ODF	9-3/8	2-5/8	1.380 ± .003	1.04	10.2	680	0.172	9.5	79
064993	ACK-26	1-5/8 ODF	10-1/2	3-1/8	1.630 ± .003	1.07	11.4	680	0.272	17.0	102
064994	ACK-34	2-1/8 ODF	12	3-5/8	2.130 ± .003	1.34	18.1	680	0.386	30.0	213
064995	ACK-42	2-5/8 ODF	13	4-1/8	2.630 ± .003	1.50	23.0	680	0.512	50.0	375

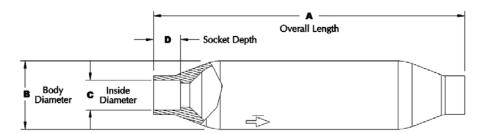
Cross Reference

Emerson	A-1 Components	Superior
ACK-4	MS-4	900M-4S
ACK-6	MS-6	900M-6S
ACK-8	MS-8	900M-8S
ACK-10	MS-10	900M-10S
ACK-12	MS-12	900M-12S
ACK-14	MS-14	900M-14S
ACK-18	MS-18	N/A
ACK-22	MS-22	N/A
ACK-26	MS-26	N/A
ACK-34	MS-34	N/A
ACK-42	MS-42	N/A

Nomenclature

Α	СК	4
Series	Check Valve	Copper ODF Connection Size

Dimensional Drawing



About Emerson Climate Technologies - Flow Controls division

Emerson Climate Technologies - Flow Controls division is a leading manufacturer of valves, controls and system protectors commonly applied in air conditioning and refrigeration systems worldwide. The company continues to pioneer the control of refrigerant flow through innovative, high performance components, such as thermostatic expansion valves and filter driers. Emerson Climate Technologies - Flow Controls division is headquartered in St. Louis. For more information, visit Emersonflowcontrols.com.



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