

Introduction

Heldon's magnetic check valve uses magnetic attraction to return the valve plate to its seat rather than spring pressure. A conventional check valve requires an increase in pressure to force the valve plate off its seat leading to an increase in pressure drop. Heldon's magnetic check valve has a decreasing force to move it away from its seat. The further it travels the magnetic attraction diminishes leading to a decrease in pressure drop. Magnetic check valves are therefore a more efficient option to conventional check valves.

Heldon's MCV uses the latest technology in DuraForm processing, a manufacturing method that eliminates the use of braze materials that can overheat and damage internal components. The body is 100% copper that has been spun into shape and the connections machined.

The result is a valve that is hermetically sealed, can easily be installed with soft or hard solder, with a near zero leak rate and exceptional performance.

Suitable for Liquid, Suction and Hot Gas lines with all fluorinated refrigerants these valves are ideal in a new installation or as a replacement for of a conventional check valve .



Features and Benefits

Features

- Designed for maximum flow and minimal pressure drop.
- Hermetically sealed copper body.
- Optimised seat material with a Neoprene Teflon coated valve plate.
- Safe working pressure in excess of 4,200 kpa (R-410a compatible) to 1 3/8"
- Multi orientation while maintaining flow direction.
- Built in 30 mesh strainer.
- Working range -40°C to 150°C

Benefits

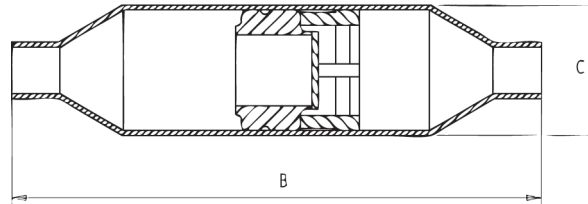
- Negligible loss in system efficiency.
- Stable platform with no chance of a leak.
- Efficient sealing with a negligible leak rate.
- Compatible with all fluorinated refrigerants and oils.
- Able to be installed in any position.
- Strain debris out of the system and extend the valve service life.
- Suitable for a wide range of applications, including combination (muffler / check valve).

Manufacturing Standards

Manufactured in accordance with AS / NZ 1677.2
Safe Working Pressure: 4,200 kPa

MCV					
Part #	Con A	B	C	Kv m3/Hr	SWP
2026-0404	1/4 ID	102	22	0.47	4,200
2026-0606	3/8 ID	102	22	0.99	4,200
2026-0808	1/2 ID	127	29	2.67	4,200
2026-1010	5/8 ID	127	29	2.98	4,200
2026-1212	3/4 ID	178	41	5.56	4,200
2026-1414	7/8 ID	178	41	7.58	4,200
2026-1818	1 1/8 ID	213	54	13.19	4,200
2026-2222	1 3/8 ID	240	67	16.26	4,200
2026-2626	1 5/8 ID	267	80	27.78	4,200
2026-3434	2 1/8 ID	305	92	48.27	4,200
2026-4242	2 5/8 ID	330	105	64.76	3,600

Cross Reference		
AKC-4	MS-4	900M-4S
AKC-6	MS-6	900M-6S
AKC-8	MS-8	900M-8S
AKC-10	MS-10	900M-10S
AKC-12	MS-12	900M-12S
AKC-14	MS-14	900M-14S
ALC-18	MS-18	N/A
AKC-22	MS-22	N/A
AKC-26	MS-26	N/A
AKC-34	MS-34	N/A
AKC-42	MS-42	N/A



Capacity Part #	Suction Kw				Liquid Kw	
	R-22	R-134A	R-404A	R-22	R-134A	R-404A
2026-0404	1.1	0.8	0.9	9.5	8.8	6.8
2026-0606	2.2	1.6	2	19.9	18.3	14.2
2026-0808	6	4.4	5.3	53.8	49.4	38.2
2026-1010	6.7	4.9	5.9	60	55.1	42.6
2026-1212	12.5	9.2	11	112.2	103.1	79.7
2026-1414	17	12.5	15	152.8	140.4	108.5
2026-1818	29.6	21.7	26.1	265.9	244.3	188.8
2026-2222	36.5	26.8	32.2	327.9	301.3	232.8
2026-2626	62.3	45.8	54.9	560.1	514.6	397.7
2026-3434	108.2	79.5	95.5	973.3	894.3	691.1
2026-4242	145.2	106.7	128.1	1305.9	1,200.0	927.3

Capacities based on:
 Evaporating temp: -10°C
 Liquid temp ahead of valve +25°C
 Pressure drop: 15 kPa