

Introduction

Check Valves are used in refrigeration and air-conditioning where the liquid or vapour refrigerant must flow to several components but never backwards in a given line. In such installations a check valve is needed. As its name implies, a check valve checks or prevents refrigerant flow in one direction while allowing full flow in the opposite direction.

Heldon manufacture a time proven range as well as supplying Mueller's Check Valves in select sizes. This arrangement enables Heldon to offer a check valve range with optimum flow characteristic and superior checking ability with minimal leak rates. The Heldon / Mueller range are specially engineered to offer a high Kv value therefore ensuring a low pressure drop.

The brass bodies are forged in the larger sizes with copper extensions on the smaller solder sizes. To optimise the sealing efficiency the 2001 and 2006 series have a soft neoprene seat while the larger valves seat is made from heat-stabilised Teflon. The larger valves have a reusable neoprene o-ring seal allowing them to be easily dismantled for installation or servicing.

Suitable for Liquid, Suction and Hot Gas lines with all fluorinated refrigerants these valves are dampened against chatter in low pressure drop situations.



Features

- Designed for maximum flow and minimal pressure drop.
- Strong forged brass body.
- Optimised seat material
- Safe working pressure in excess of 4,200 kpa (R-410a compatible)
- Stainless steel spring.
- Working range -40°C to 100°C
- Compatible with all fluorinated refrigerants and Oils.
- Able to be installed in any position.
- Suitable for a wide range of applications.

Manufacturing Standards

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

Straight Mueller

MSAE (Flare)	Con	A	B	C	Kv m3/Hr
2001-0404	1/4	57	21	16	0.55
2001-0606	3/8	60	21	16	1.45
2001-0808	1/2	76	32	21	2.11
2001-1010	5/8	82	32	23	3.58



Female Solder

Con	A	B	C	Kv m3/Hr	
2006-0404	1/4	129	21	10	0.55
2006-0606	3/8	135	21	10	1.45
2006-0808	1/2	144	32	12	2.11
2006-1010	5/8	160	32	14	3.58



Screw Bonnet Check Valves

Con	A	B	C	Kv m3/Hr
2007-1212	3/4	96	67	5.52
2007-1414	7/8	96	67	8.49



Straight

Female Solder	Con	A	B	C	Kv m3/Hr
2024-1414	7/8 ID	100	82	20	8.95
2024-1818	1 1/8 ID	120	96	35	14.30
2024-2222	1 3/8 ID	170	127	51	21.60
2024-2626	1 5/8 ID	190	136	61	29.45
2024-3434	2 1/8 ID	210	144	72	42.00
2024-4242	2 5/8 ID	250	180	75	82.30



Angle

Female Solder	Con	A	B	C	Kv m3/Hr
2027-1414	7/8 ID	96	47	40	8.95
2027-1818	1 1/8 ID	96	51	40	14.30
2027-2222	1 3/8 ID	120	60	67	21.60
2027-2626	1 5/8 ID	120	60	67	29.45
2027-3434	2 1/8 ID	143	72	79	42.00
2027-4242	2 5/8 ID	143	72	79	82.30

