

Permissible media:	R22, R134A, R404A, R407C, R507
Operating pressure:	0,1 - 30 bar
Life span:	min. 20 mio. switchings (oiled media)
Ambient temperature:	-40 to +70°C
Media temperature:	-40 to +150°C
Material:	Brass, stainless steel, PTFE, EPDM
Magnetic capacity:	10 Watt at DC / 18VA at AC
Coil Connector:	DIN 43650 A - PG 11 (PG9)
Coil Protection:	IP65 with connector

Refrigerating

2/2-way Solenoid Valves with soldering connection for tubes D 5/8" - 1 1/8"



Series: VC50

Connection Tube-D	KV ¹⁾	Weight	Article Number (Solenoid valve incl. coil and connector)	
			normally closed	normally open
5/8"	4,5	0,65 kg	VCL50*	VCL53*
7/8"	5,5	0,70 kg	VCM50*	VCM53*
1 1/8"	6,5	0,75 kg	VCN50*	VCN53*

¹⁾The KV-Value is the water flow in m³/h ,
at pressure drop across the valve of 1 bar.

*
Voltage code: 0 = without coil
1 = 230V 50/60 HZ
2 = 024V DC
3 = 024V 50/60 HZ
4 = 012V DC

The voltage code is the end number of the
valve article number. (e.g.: VCM013)

FEATURES

- low noise switching
- high switching frequency
- compact design
- low energy consumption

Connection Tube-D	Nominal Refrigeration Capacity (KW) ²⁾											
	Liquid				Suction Steam				Hot Gas			
	R22	R404A R507	R134A	R407C	R22	R404A R507	R134A	R407C	R22	R404A R507	R134A	R407C
5/8"	90	62,55	83,7	85,5	9,9	9,0	7,2	9,45	41,4	33,8	32,9	43,5
7/8"	110	76,45	102,3	104,5	12,1	11,0	8,8	11,55	50,6	41,3	40,2	53,1
1 1/8"	130	90,35	120,9	123,5	14,3	13,0	10,4	13,65	59,8	48,8	47,5	62,8

²⁾
The nominal liquid and suction steam capacity is
based on the evaporation temperature $t_0 = -10^\circ\text{C}$
liquid temperature ahead the valve $t_v = +25^\circ\text{C}$
and $\Delta p = 0,15$ bar.

The nominal hot gas capacity is based on the
liquefying temperature $t_k = +40^\circ\text{C}$, pressure drop
across the Valve $\Delta p = 0,8$ bar, hot gas $t_h = +65^\circ\text{C}$
and subcooling of refrigerant liquid $\Delta t_u = 4$ K.