

<b>Permissible media:</b>	R22, R134A, R404A, R407C, R410A, R507
<b>Operating pressure:</b>	0,1 - 30 bar
<b>Life span:</b>	min. 20 mio. switchings
<b>Ambient temperature:</b>	-40 to +70°C
<b>Media temperature:</b>	-40 to +150°C
<b>Material:</b>	Brass, stainless steel, PTFE, EPDM
<b>Magnetic capacity:</b>	10 Watt
<b>Coil Connector:</b>	DIN 43650 A PG9
<b>Coil Protection:</b>	IP65 with connector

## Refrigerating

### 2/2-way

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

Connection Tube-D	KV <sup>1)</sup>	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(*)



## Series: VC50

1) The KV-Value is the water flow in m/h<sup>3</sup>,  
at pressure drop across the valve of 1 bar.

(\*) **Voltage code:** 0 = without coil  
1 = 230V DC/AC  
2 = 024V DC/AC  
4 = 012V DC/AC  
5 = 110V DC/AC

The voltage code is the end number of  
the valve article number. (e.g.: VCM501)

### FEATURES

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

Connection Tube-D	Nominal Refrigeration Capacity (KW) <sup>2)</sup>											
	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  $t_e = -10^\circ\text{C}$  liquid temperature ahead the valve  $t_v = +25^\circ\text{C}$  and  $D_p = 0,15$  bar.

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