OFFENWANGER
fluid components

Refrigerating

2/2-way Solenoid Valves

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

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



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(*)***

Series: VC50

1) The KV-Value is the water flow in m/h^3, 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**

Nominal Refrigeration Capacity (KW) [2]

Connection Tube-D	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°C liquid temperature ahead the valve t_v = +25°C and Dp = 0,15 bar.

The nominal hot gas capacity is based on the liquefying temperature t_k = +40°C,pressure drop across the Valve Dp = 0,8 bar, hot gas t_h = +65°C and subcooling of refrigerant liquid Dt_u = 4 K.

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