OFFENWANGER
fluid components

Refrigerating

2/2-way Solenoid Valves

with soldering connection for tubes D 1/4" and 3/8"

Permissible media:	R22, R134A, R404A, R407C, R410A, R507
Operating pressure:	0 - 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:	6 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
1/4"	0,3	0,20 kg	*VAI50(*)*	*VAI53(*)*
3/8"	0,4	0,24 kg	*VAJ50(*)*	*VAJ53(*)*

Series: VA50

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.: VAJ501)

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
1/4"	6	4,17	5,6	5,7					2,8	2,3	2,2	2,94
3/8"	8	5,56	7,4	7,6					3,7	3,05	2,93	3,9

[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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