OFFENWANGER
fluid components

Refrigerating

2/2-way Solenoid Valves

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

Permissible media:	R22, R134A, R404A, R407C, R410A, R507
Operating pressure:	0,2 - 30 bar
Life span:	min. 5 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
1 1/8"	12	0,95 kg	***VDN01(*)***	***VDN04(*)***
1 3/8"	13	1,10 kg	***VDO01(*)***	***VDO04(*)***
1 5/8"	14	1,25 kg	***VDP01(*)***	***VDP04(*)***



Series: VD01

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.: VDP011)

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 1/8"	240	166,8	223,2	228	26,4	24	19,2	25,2	110,4	90,0	87,6	116,1
1 3/8"	260	180,7	241,8	247	28,6	26	20,8	27,3	119,6	97,5	94,9	125,7
1 5/8"	280	194,6	260.4	266	30,8	28	22,4	29,4	128,8	105,0	102,2	135,4

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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