

<b>Permissible media:</b>	R22, R134A, R404A, R407C, R410A, R507
<b>Operating pressure:</b>	max. 50 bar
<b>Differential pressure:</b>	0,05 – 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>	6 Watt at DC / 9VA at AC
<b>Coil Connector:</b>	DIN 43650 A - PG 11 (PG9)
<b>Coil Protection:</b>	IP65 with connector

Refrigerating

**2/2-way**

**Solenoid Valves  
with soldering connection  
for tubes D 1/4" - 7/8"**



**Series: VB50**

Connection Tube-D	KV <sup>1)</sup>	Weight	Article Number (Solenoid valve incl. coil and connector)	
			normally closed	normally open
1/4"	0,3	0,30 kg	<b>VB150*</b>	<b>VB153*</b>
3/8"	0,9	0,32 kg	<b>VBJ50*</b>	<b>VBJ53*</b>
1/2"	1,9	0,34 kg	<b>VBK50*</b>	<b>VBK53*</b>
5/8"	2,4	0,36 kg	<b>VBL50*</b>	<b>VBL53*</b>
7/8"	2,8	0,41 kg	<b>VBM50*</b>	<b>VBM53*</b>

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 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.: VBK503)

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	R410A	R22	R404A R507	R134A	R407C	R410A	R22	R404A R507	R134A	R407C	R410A
<b>1/4"</b>	6	4,17	5,6	5,7	6,3						2,8	2,3	2,2	2,9	3,0
<b>3/8"</b>	18	12,5	16,7	17,1	19,0	2,0	1,8	1,5	1,85	2,1	8,3	6,8	6,6	8,7	8,8
<b>1/2"</b>	38	26,4	35,3	36,1	40,1	4,3	3,9	3,2	4,0	4,5	17,5	14,3	13,9	18,4	18,5
<b>5/8"</b>	48	33,4	44,6	45,6	50,7	5,4	4,9	4,0	5,0	5,7	22,1	18,0	17,6	23,2	23,3
<b>7/8"</b>	56	38,9	52,1	53,2	59,1	6,3	5,7	4,6	5,9	6,6	25,8	21,0	20,5	27,1	27,2

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.