

Permissible media:	R22, R134A, R404A, R407C, R410A, R507
Operating pressure:	0,05 - 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

Refrigerating

2/2-way

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



Series: VB50

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

1) The KV-Value is the water flow in m/h³,
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.: VBK501)

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"	18	12,5	16,7	17,1	2,0	1,8	1,5	1,85	8,3	6,8	6,6	8,7
1/2"	38	26,4	35,3	36,1	4,3	3,9	3,2	4,0	17,5	14,3	13,9	18,4
5/8"	48	33,4	44,6	45,6	5,4	4,9	4,0	5,0	22,1	18,0	17,6	23,2
7/8"	56	38,9	52,1	53,2	6,3	5,7	4,6	5,85	25,8	21,0	20,5	27,1

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.