

2/2 directional valves DN 6 to 20



For halogen-refrigerants
Solenoid pilot actuated poppet valves
Connection by screwed flange or blowpipe
Operating pressure from 0.2 (0.5 up to 20 bar)

Sales range Automatics
A 201 EI-KFM
Series 02000

Publication 7501201.06.03.81

**OBSOLETE
DOCUMENT**

Technical
Reference
Only

Description (standard unit)

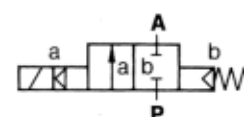
Solenoid valve for gaseous or liquid refrigerants R 11, R 12, R 22, R 40, R 114, R 502 or other halogen refrigerants

Flow direction: Determined
Fluid temperature: -10 to +80 °C
Ambient temperature: -10 to +55 °C
Mounting position: Optional preferably vertical
Material Body: Brass
Seat seal: PTFE (Teflon)
Inner parts: St. st. 1.4104, brass



Features

- For refrigerants and other gaseous and liquid media
- Suited for operating pressure up to 20 bar max.
- High flow rate



**Switching function:
Normally closed**

Characteristic data

DN	Type of connection	Connection size	For pipe diameter		Operating pressure [bar]		K _v -value (C _v (US) ≈ K _v x 1.2)	Switching cycles for gaseous and liquid media up to 40 mm ² /s [1/min]	Weight [kg]	Dimensional drawing No.	Cat. No.	
			[mm]	[Zoll]	min. ¹⁾	max.					Valve	Solenoid DC or AC
6	B	5/8 UNF	10	3/8	0,2	20	1,0	10	0,90	01	0203100.0701	
6	L	—	10		0,2	20	1,0	10	0,90	04	0203103.0701 ²⁾	
6	L	—		3/8	0,2	20	1,0	10	0,90	04	0203104.0701 ²⁾	
6	L	—		3/8	0,2	20	1,0	10	0,80	07	0203120.0701 ³⁾	
10	B	3/4 UNF	12		0,2	20	1,2	10	0,95	02	0203200.0701	
10	B	3/4 UNF		1/2	0,2	20	1,2	10	0,95	02	0203202.0701	
10	L	—	12		0,2	20	1,2	10	0,95	05	0203203.0701 ²⁾	
10	L	—		1/2	0,2	20	1,2	10	0,95	05	0203204.0701 ²⁾	
10	L	—		1/2	0,2	20	1,2	10	0,85	08	0203220.0701 ³⁾	
12	B	7/8 UNF	15		0,2	20	1,3	10	1,00	03	0203300.0701	
12	B	7/8 UNF	16	5/8	0,2	20	1,3	10	1,00	03	0203302.0701	
12	L	—	15		0,2	20	1,3	10	1,00	06	0203303.0701 ²⁾	
12	L	—	16	5/8	0,2	20	1,3	10	1,00	06	0203304.0701 ²⁾	
12	L	—		5/8	0,2	20	1,3	10	0,90	09	0203320.0701 ³⁾	

B = Union nut
L = Blow pipe

State voltage [V]
and frequency [Hz]

Cont'd on page 2

Characteristic data

DN	Type of connection	Connection size	For pipe diameter		Operating pressure [bar] ¹⁾		K _v -value (c _v (US) ≈ K _v x 1.2)	Switching cycles for gaseous and liquid media up to 40 mm ² /s [1/min]	Weight [kg]	Dimensional drawing No.	Cat. No.	
			[mm]	[Zoll]	min.	max.					Valve	Solenoid DC or AC
15	B	1 1/16 UNF	18	5/8	0,5	20	3,6	10	1,60	10	0203400.0701	
15	B	1 1/16 UNF		3/4	0,5	20	3,6	10	1,60	10	0203402.0701	
15	L	—	18		0,5	20	3,6	10	1,60	12	0203403.0701²⁾	
15	L	—		3/4	0,5	20	3,6	10	1,60	12	0203404.0701²⁾	
15	L	—	18		0,5	20	3,6	10	1,40	13	0203420.0701³⁾	
20	B	1 3/8 UNF	22	7/8	0,5	20	4,6	10	1,80	11	0203500.0701	
20	L	—	22		0,5	20	4,6	10	1,80	12	0203503.0701²⁾	
20	L	—		7/8	0,5	20	4,6	10	1,80	12	0203504.0701²⁾	
20	L	—	22		0,5	20	4,6	10	1,50	13	0203520.0701³⁾	

B = Union nut
L = Blow pipe

State voltage [V]
and frequency [Hz]

¹⁾ Min. pressure difference, i.e. the necessary drop of static pressure from P to A required for any operating condition of the valve, in this case 0.2 respectively 0.5 bar

Data on pressure only applicable for AC. Max. operating pressure for DC = 15 bar.

²⁾ When soldering connecting pipes, removal of valve is not necessary.

³⁾ Prior to soldering of connecting pipes, valve has to be removed.

Solenoids

Standard voltages	DC	AC		Other voltages on request
		50 Hz	60 Hz	
	200 V 110 V 48 V 24 V	220 V 110 V 42 V 24 V	220 V 115 V — —	

Designs to VDE 0580
Duty cycle 100 %

Current draw

Solenoid DC		Solenoid AC		
		Inrush		Holding
0701	16 W	0701	50 VA	24 VA

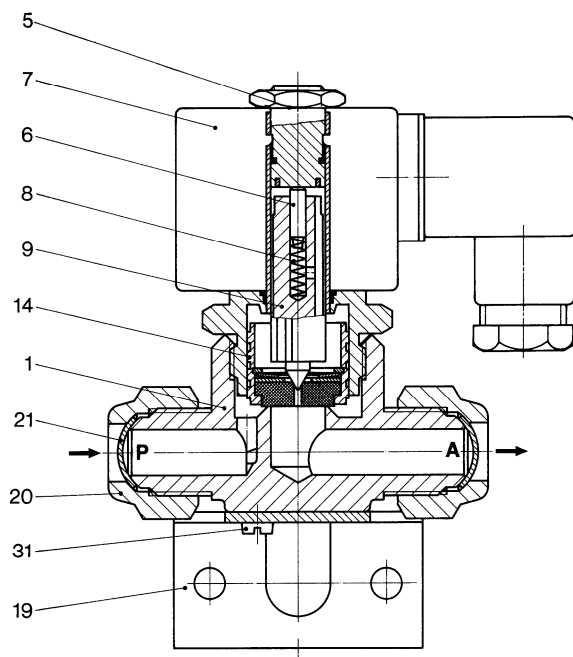
Protection class to DIN 40050 IP 65
Connector class to DIN 43650

For further technical details see Publication 7500775.

Further versions available on request:

- For lower temperatures
- For higher temperatures
- With climatic protection
- With auxiliary relay (up to +80 °C max.)
- Explosion-proof design, protection classes (Ex)s G4 or (Ex)s G5 (changed pressure step, DN 6 to 12)
- Normally open design (DN 15 and 20)

Sectional drawing

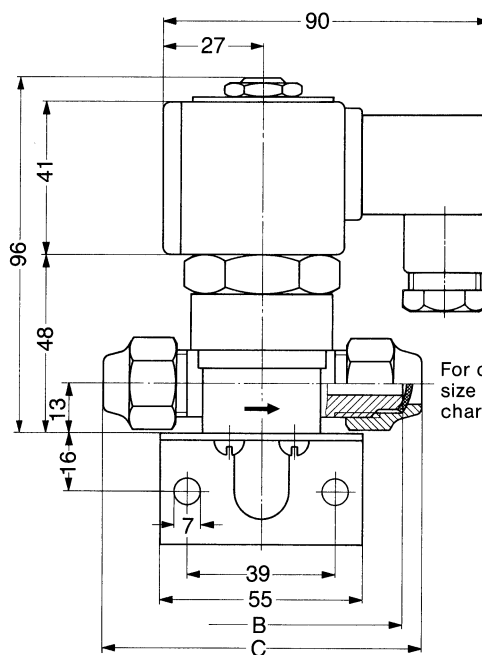


- 1 Body
- 2 Core tube
- *6 Bolt
- 7 Solenoid
- *8 Spring
- 9 Plunger
- *14 Piston assly.
- 19 Angle
- 20 Union
- 21 Washer
- 31 Cheese-head screw

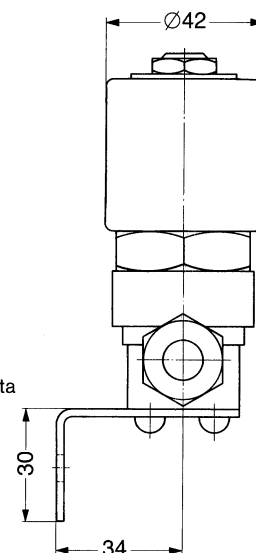
Wearing parts marked * are enclosed in spare parts kit. When ordering, please state valve catalog number.

Dimensional drawings

Dimensional drawing No.	B	C
01	75	85
02	76	86
03	90	103

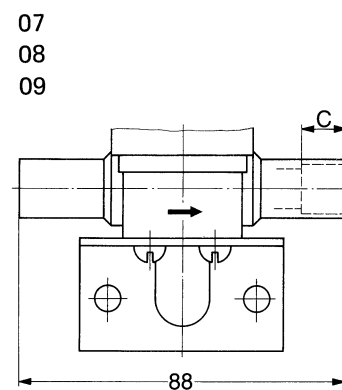
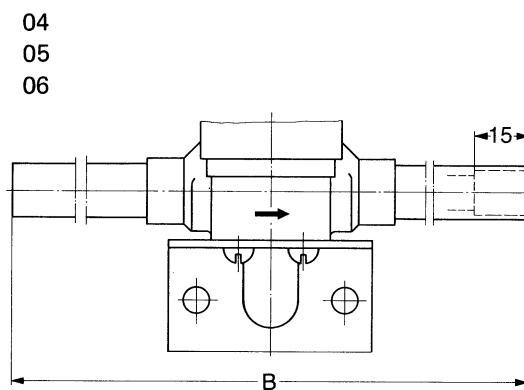


For connection size see characteristic data



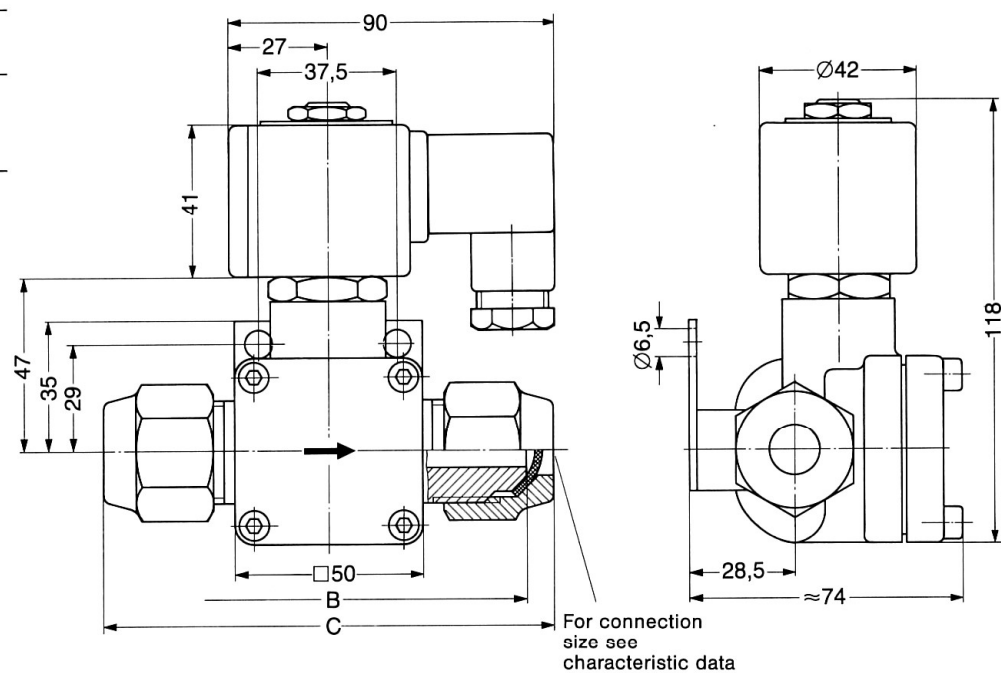
Dimensional drawing No.	B
04	235
05	235
06	248

Dimensional drawing No.	C
07	10
08	12
09	16

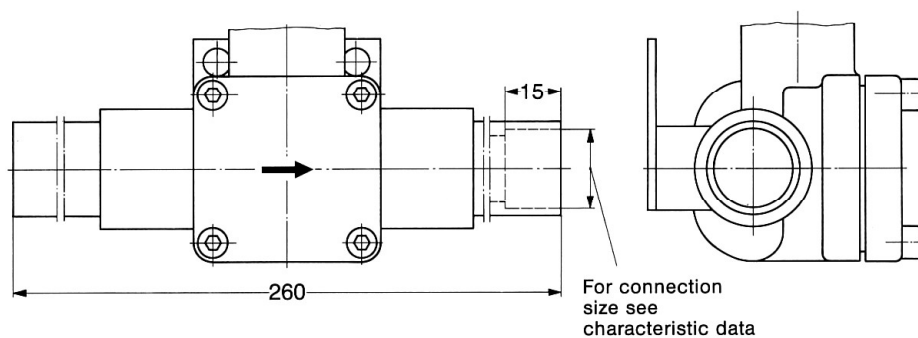


Dimensional drawings

Dimensional drawing No.	B	C
10	103	115
11	110	131



Dimensional drawing No.
12



Dimensional drawing No.
13

