



2/2-way servo-operated solenoid valve type EV215B



Features and versions:

- 2/2-way
- Specifically designed for steam applications, 160 °C or 185 °C
- Direct operated
- Ambient temperature: Up to 40°C
- Thread connections: G 1/4"
- Stainless steel valve body
- DN 3

EV215B is a direct operated 2/2-way solenoid valve for use in steam applications.

The design is based on a PTFE valve plate, ensuring high reliable function even in connection with contaminated steam.

Valve body in stainless steel for ensuring a long life even in connection with aggressive steam media.

- NC (normally closed)
- EV215B used with BQ coil a.c. voltage up to 185 °C
- EV215B used with BN coil d.c. voltage up to 160 °C
- EV215B used with BB coil a.c. voltage up to 160 °C d.c. voltage up to 140 °C

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Solenoid valve type EV215B

DZR brass valve body, NC



Connec-	Seal	Orifice	k., -			al pressure nax. [bar]			lia temper n. to max.		
tion ISO228/1	mate- rial	size [mm]	value [m ³ /h]	Coil type BQ 10 W a.c.	Coil type BN 20 W d.c.	Coil type BB 10 W a.c.	Coil type BB 18 W d.c.	BQ	BN d.c. BB a.c.	BB d.c	Code number
G 1/4	PTFE	3	0.3	0 – 10	0 – 5	0 – 5	0 – 3.6	0 – 185	0 – 160	0 - 140	032U3801

Technical data, NC

Main type	EV215B
Time to open [ms] 1)	20
Time to close [ms] 1)	20

 $^{\ensuremath{\eta}}$ The times are indicative. The exact times will depend on the pressure conditions.

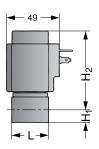
Installation	Vertical solenoid system is recommended						
Max. test pressure	25 bar						
Ambient temperature	Max. 40 °C at a medium temp	Max. 40 ℃ at a medium temperature of 185 ℃					
Viscosity	Max. 50 cSt						
	Valve body	Stainless steel	W. no. 1.4404				
	Armature / armature stop	Stainless steel	W. no. 1.4105 / AISI 430FR				
Materials	Spring	Stainless steel	W. no. 1.4306 / AISI 304L				
Materials	Armature tube	Stainless steel	W. no. 1.4310 / AISI 301				
	Valve plate	PTFE					
	External gasket	O-ring: AFLAS					

Dimensions and weight:

Туре	L [mm]	B [mm]	H [mm]	H1 [mm]	H2 [mm]	Weight with coil BQ, BB [Kg]	Weight with coil BN [Kg]
EV215B 3	35	35	87	12.5	74.5	0.51	0.79

Coil type BQ, BB





Coil type BN







Solenoid valve type EV215B

Coil type BQ a.c. Steam coil to 185 °C



Coil type BN d.c. Steam coils to 160 °C



Coil type BB a.c. Steam coils to 160 °C



Type BB d.c. Steam coils to 140 °C

Coil voltage	Voltage tolerances	Power consumption, inrush	Coil output [W]	Max media temperature [°C]	Coil appendix	Code number
24 V 50Hz	+10%, -15%				16	018F4517
110 V 60Hz	+10%, -15%	44 VA	10	185	20	018F4519
230 V 50Hz	+6%, -15%	44 VA	10	105	31	018F4511
220 V 60Hz	+10%, -15%				29	018F4520

Code number	Coil appendix	Max media temperature [°C]	Coil output [W]	Power consumption, inrush	Voltage tolerances	Coil voltage
018F6968	02	160	20	20 W	±10%	24 V d.c.

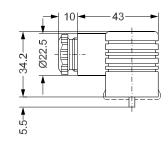
Coil voltage	Voltage tolerances	Power consumption, inrush	Coil output [W]	Max media temperature [°C]	Coil appendix	Code number
24 V 50Hz	+10%, -15%				16	018F7358
24 V 60Hz	+10%, -15%				14	018F7365
115 V 50Hz	+10%, -15%		10	160	22	018F7361
110 V 60Hz	+10%, -15%	44 VA			21	018F7360
230 V 50Hz	+6%, -15%	44 VA			31	018F7351
230 V 60Hz	+6%, -15%				32	018F7363
240 V 50Hz	+10%, -15%				33	018F7352
380 V 50Hz	+10%, -15%				37	018F7353
12 V d.c.	±10%	18 W	10	140	01	018F7396
24 V d.c.	±10%	10 W	18	140	02	018F7397

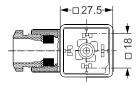
Technical data	Type BQ, BN, BB
Insulation of coil windings	Class H according to IEC 85
Connection	GDM 2011 (grey) Cable plug according to DIN 43650-A PG11
Coil enclosure, IEC 529	IP65
Ambient temperature	Max. 40°C
Duty rating	Continuous

Accessories: Cable plug

Туре	Code number
GDM 2011 (grey), cable plug according to DIN 43650-A PG11	042N0156







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Spare part kit



Spare parts kit comprises:

Armature with valve plate Spring O-ring

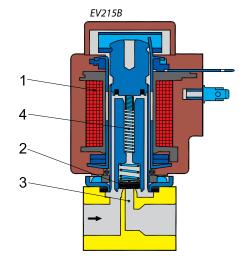
Туре	Code number
EV215B	032U3170

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Function NC

1. Coil

- Valve plate
 Orifice
- 4. Closing spring



Coil voltage disconnected (closed):

When the voltage is disconnected, the closing spring (4) with the valve plate (2) is pressed down against the pilot orifice (3) by the closing spring (4) and the medium's pressure. The valve will be closed for as long as the voltage to the coil is disconnected.

Coil voltage connected (open):

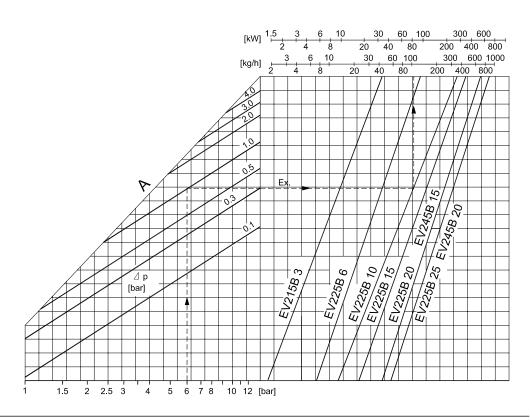
When voltage is applied to the coil (1), the closing spring (4) with the valve plate (2) is lifted clear of the the orifice (3).

The valve is now open for flow and will be open for as long as there is voltage to the coil.

Steam capacity diagrams

Example

Capacity for EV225 10 BD; inlet pressure (p_1) of 6 bar absolute; differential pressure at 1 bar: Approx. 100 kg/h / 80 kW



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