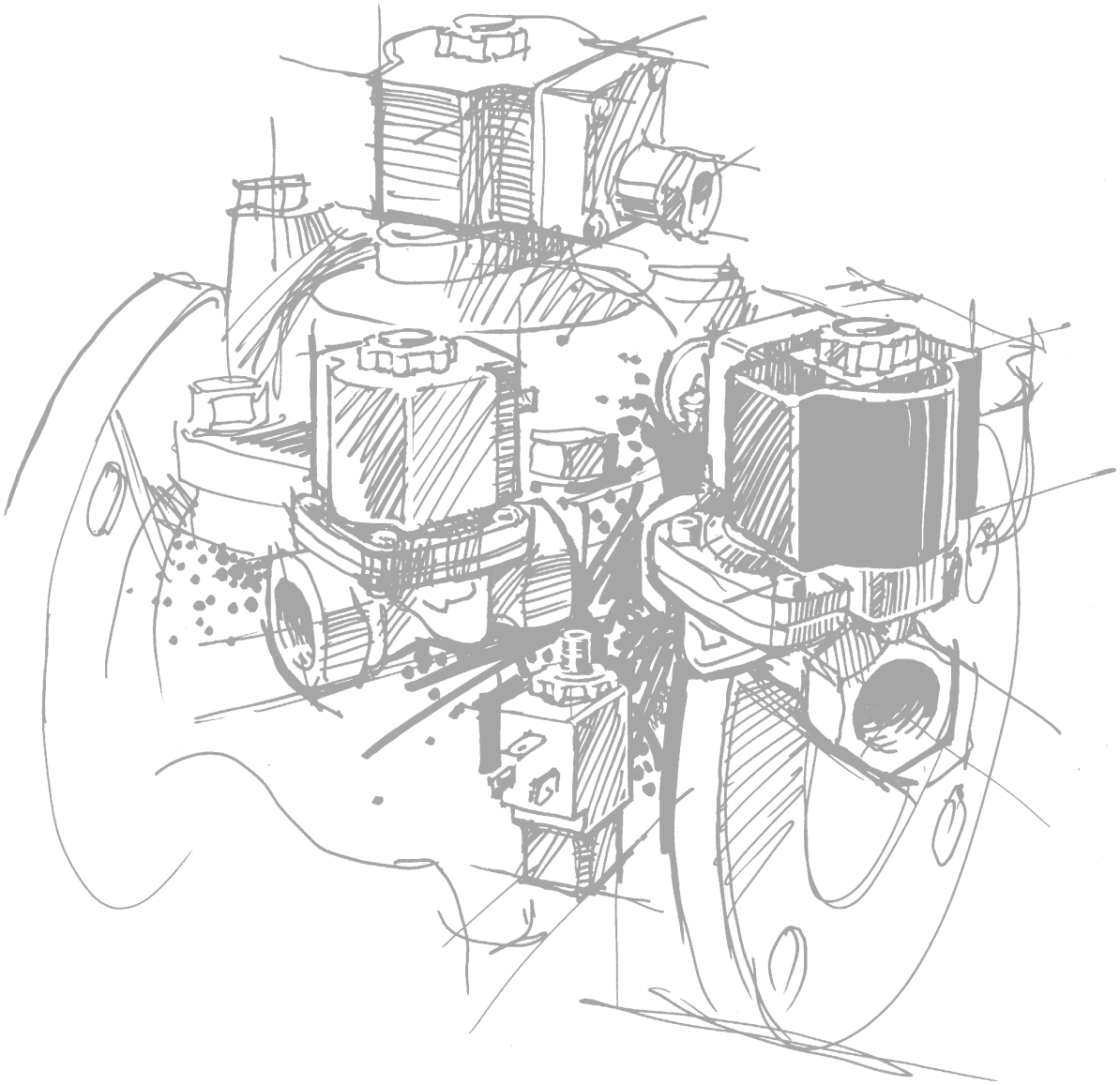
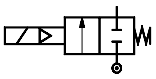
Data sheet



Solenoid valves with isolating diaphragm
2/2-way direct-operated
Type EV212B

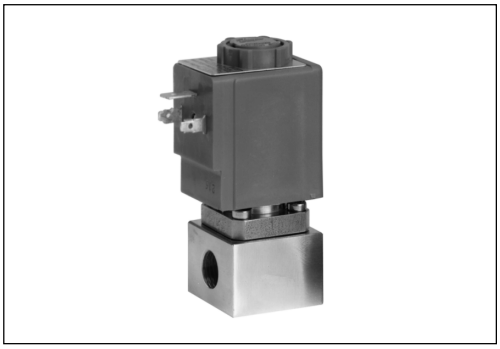


De-energized
closed

Type EV212B
for neutral and aggressive liquids
DN 1.5 - 3 SS

$G\ ^1/_8$ - $G\ ^3/_8$

Features



- The isolating diaphragm design ensures that no fluid enters the armature area, which gives the following advantages: The valve is resistant to
  - aggressive fluids
  - impurities in the fluid and
  - calcareous and other scale deposits
- Stainless steel body
- Differential pressure: Up to 16 bar
- Viscosity: Up to 50 cSt
- Ambient temperature: Up to +60°C
- Coil enclosure: Up to IP 67
- Thread connection: From $G\ ^1/_8$ to $G\ ^3/_8$

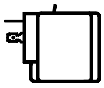
Technical data

Type	EV212B
Installation	Optional, but vertical solenoid system is recommended
Nominal pressure	PN 10
Differential pressure	0 to 10 bar
Max. test pressure	16 bar
Ambient temperature	Max. +60°C (depending on coil type, see below)
Medium temperature	0 to +50°C
Viscosity	Max. 50 cSt
Materials in contact with fluid	
Valve body	W.no. 1.4404 / AISI 316L [1)]
Flange for isolating diaphragm	W.no. 1.4404 / AISI 316L [1)]
Isolating diaphragm	FKM
O-rings	FKM
Fluid above isolating diaphragm	Silicone oil

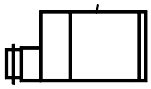
[1)] W. no. according to DIN 17440

Coil options

Type: BA
9W AC / 15 W DC
See DKACV.PD.600.A



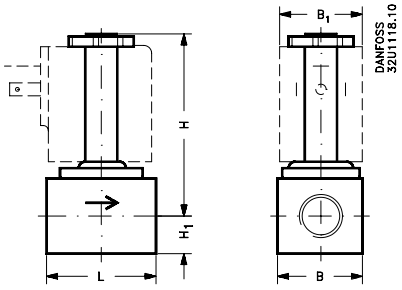
Type: BB
10W AC / 18W DC
See DKACV. 600.A



Type: BE (IP67)
10W AC / 18W DC
See DKACV.PD.600.A

Dimensions and weight

EV212B

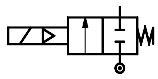


Type	L	B	B_1 [mm]		H_1	H	Weight without coil
			Coil type	Coil type			
	[mm]	[mm]	BA	BB/BE	[mm]	[mm]	[kg]
EV212B 1.5 SS	35.0	34.0	32	46	12.0	75.0	0.15
EV212B 3 SS	38.0	34.0	32	46	13.0	76.0	0.20

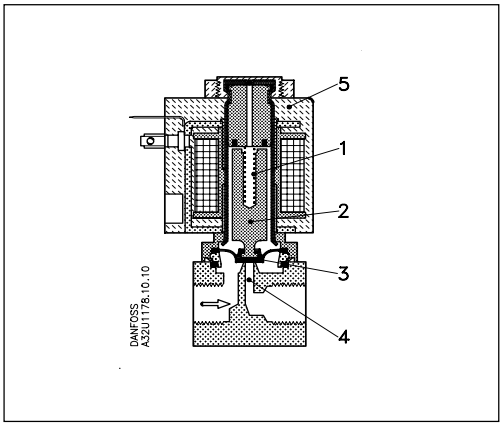
G $^1/_8$ - G $^3/_8$

Type EV212B
for neutral and aggressive liquids
DN 1.5 - 3 SS

De-energized closed



Function
EV212B direct-operated



2/2-way direct-operated
When voltage is applied to the coil (5), the armature (2) with the isolating diaphragm (3) is lifted clear of the valve orifice (4) and opens for flow through the valve. The valve is open as long as there is voltage to the coil.

When voltage is disconnected, the isolating diaphragm (3) is pressed down against the orifice by the spring (1). The valve will be closed for as long as the voltage to the coil is disconnected. The isolating diaphragm keeps the medium away from the actuator.

The space above the isolating diaphragm is filled up with silicone oil.

Ordering - valve body

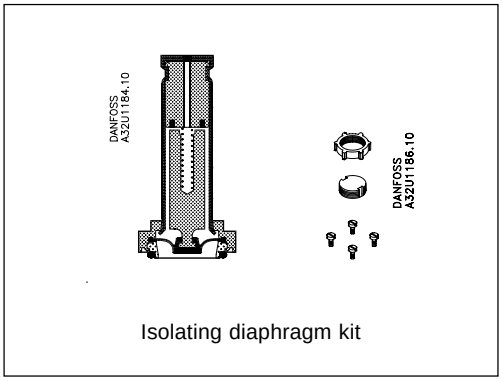
Connection ISO 228/1	Seal material	k_v-value [m³/h]	Media temp. Min. [°C]	Media temp. Max. [°C]	Type designation: Main type	Type designation: Specification	**Code no. without coil**	Permissible diff. pressure (bar)/Coil type: Min.	Max. BA: 9 W ac	Max. BA: 15 W dc	Max. BB/BE: 10 W ac	Max. BB/BE: 18 W dc
G $^1/_8$	FKM [1]	0.05	0	+60	EV212B 1.5 SS	G 18F NC000	**042U4201**	0	10	-	10	10
G $^1/_4$	FKM [1]	0.05	0	+60	EV212B 1.5 SS	G 14F NC000	**042U4203**	0	10	-	10	10
G $^1/_4$	FKM [1]	0.3	0	+60	EV212B 3 SS	G 14F NC000	**042U4205**	0	7	-	10	10
G $^3/_8$	FKM [1]	0.3	0	+60	EV212B 3 SS	G 38F NC000	**042U4207**	0	7	-	10	10

[1] Suitable for oil and air. Water max. +60 °C.

Ordering - coils

See separate data sheet for coils DKACV.PD.600.A

Spare parts



Isolating diaphragm kit

The kit consists of assembled isolating unit, O-ring, 4 screws, locking button and nut for the coil.

Seal material	**Code no.**
EPDM [1]	**042U1009**
FKM [2]	**042U1010**

[1] Suitable for water.
[2] Suitable for oil and air. Water max. 60 °C.

DK-6000 Kolding
Denmark