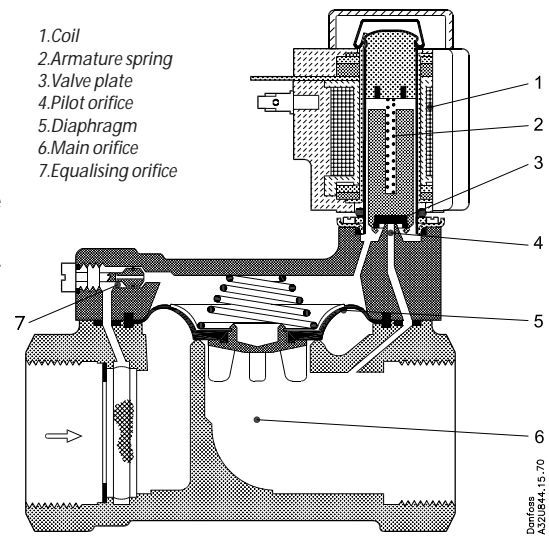


Function NC

Coil voltage disconnected (closed):
 When the voltage is disconnected, the valve plate (3) is pressed down against the pilot orifice (4) by the armature spring (2). The pressure across the diaphragm (5) is built up via the equalising orifice (7). The diaphragm closes the main orifice (6) as soon as the pressure across the diaphragm is equivalent to the inlet 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 pilot orifice (4) is opened. As the pilot orifice is larger than the equalising orifice (7), the pressure across the diaphragm (5) drops and therefore it is lifted clear of the main orifice (6). The valve is now open for unimpeded flow and will be open for as long as the minimum differential pressure across the valve is maintained, and for as long as there is voltage to the coil.



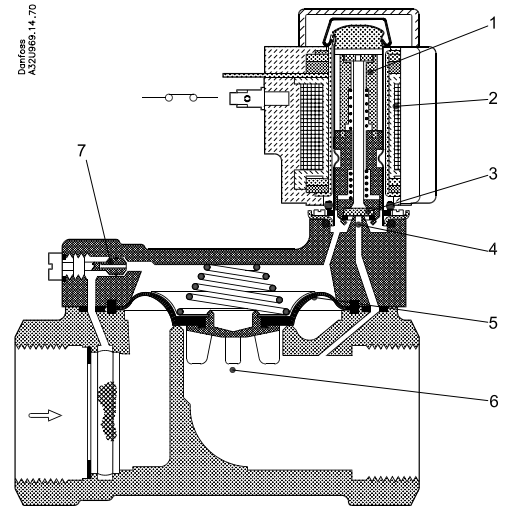
Ordering NC

Conne- ction ISO 228/1	Seal material	k _v value [m ³ /h]	Media temp.		Type designation		Code no. without coil	Pressure range Coil types BB - BE - BG	
			Min. [°C]	Max. [°C]	Main type	Specification		Min. [bar]	Max. [bar]
G 1/2	NBR	4	-10	+60	EV224B 15B	G12N NC000	032U8360	0.3	40
G 3/4	NBR	8	-10	+60	EV224B 20B	G34N NC000	032U8362	0.3	40
G 1	NBR	11	-10	+60	EV224B 25B	G1N NC000	032U8364	0.3	40

Function NO

Coil voltage disconnected (open):
 When the voltage to the coil (2) is disconnected, the pilot orifice (4) is open. As the pilot orifice is larger than the equalising orifice (7), the pressure across the diaphragm (5) drops and therefore it is lifted clear of the main orifice (6). The valve will be open for as long as the minimum differential pressure across the valve is maintained, and for as long as the voltage to the coil is disconnected.

Coil voltage connected (closed):
 When voltage is applied to the coil, the valve plate (3) is pressed down against the pilot orifice (4). The pressure across the diaphragm (5) is built up via the equalising orifice (7). The diaphragm closes the main orifice (6) as soon as the pressure across the diaphragm is equivalent to the inlet pressure. The valve will be closed for as long as there is voltage to the coil.



1.Armatore 5.Diaphragm
 2.Coil 6.Main orifice
 3.Valve plate 7.Equalising orifice
 4.Pilot orifice

Ordering NO

Conne- ction ISO 228/1	Seal material	k _v value [m ³ /h]	Media temp.		Type designation		Code no. without coil	Pressure range Coil types BB - BE - BG	
			Min. [°C]	Max. [°C]	Main type	Specification		Min. [bar]	Max. [bar]
G 1/2	NBR	4	-10	+60	EV224B 15B	G12N NO000	032U8361	0.3	40
G 3/4	NBR	8	-10	+60	EV224B 20B	G34N NO000	032U8363	0.3	40
G 1	NBR	11	-10	+60	EV224B 25B	G1N NO000	032U8365	0.3	40

Coil options

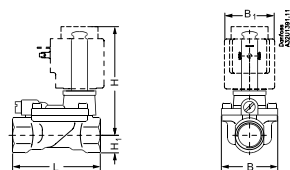
Danfoss also offers hum-free coils for noise sensitive applications and EEx m II T4 coils for use in explosion risk areas - please see coil data sheet DKACV.PD.600.A

Type: BB 10 W ac 18 W dc	Type: BE (IP 67) 10 W ac 18 W dc	Type: BG 12 W ac 20 W dc
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Ordering Coils

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

Dimensions and weight, NC and NO



Type	L [mm]	B [mm]	B ₁ [mm] Coil type		H ₁ [mm]	H [mm]	Weight without Coil [Kg]
			BB/BE	BG			
EV224B 15B	80.0	52.0	46	68	15.0	99.0	0.8
EV224B 20B	90.0	58.0	46	68	18.0	103.0	1.0
EV224B 25B	109.0	70.0	46	68	22.0	113.0	1.4

