



## Danfoss complete solenoid valves

*Now also with assisted lift problem solver valves in NO and NC versions.*

Our solenoid valve program includes valves suitable for most open and closed systems. The program comes complete with the clip-on coil and IP65 electrical plug and has been carefully designed to simplify product selection.

To select the right valve all that is required to be known is:

- Open or closed pipe work system
- Pipe size
- Electrical voltage
- If the system parameters are unknown, choose the safe solution - EV250B NO or NC version

## The Danfoss "complete" valve program consists of three valve types:

### EV210B: Valves for oil, air and water - for open and closed systems

- For small pipe sizes and low flow requirements (up to 20 l/min)
- Suitable for both open and closed systems

### EV250B: Valves for water - for open and closed systems

- For pipe sizes between 3/8" and 1"
- Available in Normally Closed as well as in Normally Open versions
- Good choice when the pressure is unknown or very low
- A real problem solver valve series
- Water hammer damped
- Suitable for closed as well as open systems

### EV220B: Valves for oil, air and water - mainly for open systems

#### 6-22 valve series

- For pipe sizes from 3/8" to 1"
- A very compact design

#### 15-50 valve series

- For pipe sizes from 1/2" to 2"
- High flow capacity
- Water hammer damped
- Mainly for open systems

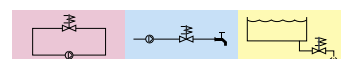
### Optimum water hammer damping:

Valves used on open pumped system can cause water hammer problems if they are not damped properly (i.e. close softly and slowly). Water hammer is a phenomenon that can damage pipe work and other components in any system as well as cause the occasional noisy bang as the valves close suddenly. In Danfoss valves, the late closing stage of the valve is controlled by using a carefully shaped diaphragm and a special damping cone is attached to the diaphragm.

*The combination of these special components reduces noise and water hammer and increase the lifetime of other components in the system.*

### Improved coil system:

Valves will be provided complete with the "clip-on" coils; these coils have a much-improved method of attaching themselves onto the valve, providing not only a simpler and securer fastening but also a hermetic watertight seal. This allows the coil to be used in more aggressive environments and ensures a longer lifetime for the product.



Type	Connec-tion	Code no.**	Diff. pressure bar min - max	Body length mm	Kv value (m³/h)	System suitability		
						Closed	Open	Drain



#### EV210B valves for oil, air and water, normally closed. Media temperature -10° C to +90° C

EV210B 1.5B	G 1/8	032U1458xx	0 - 30	35	0.08	✓	✓	✓
EV210B 3B	G 1/4	032U1470xx	0 - 20	38	0.30	✓	✓	✓
EV210B 4.5B	G 3/8	032U1480xx	0 - 10	38	0.55	✓	✓	✓



#### EV250B valves for water, NORMALLY CLOSED. (WRAS approved/VA pending). Medium temperature -30° C to +140° C

EV250B 10BD	G 3/8	032U1571xx	0 - 16	58	2.5	✓	✓	✓
EV250B 12BD	G 1/2	032U1580xx	0 - 16	58	4.0	✓	✓	✓
EV250B 18BD	G 3/4	032U1614xx	0 - 10	90	6.0	✓	✓	✓
EV250B 22BD	G 1	032U1624xx	0 - 10	90	7.0	✓	✓	✓

#### EV250B valves for water, NORMALLY OPEN (WRAS, VA and UL pending). Medium temperature -30° C to +140° C

EV250B 10 BD	G 3/8	032U5370xx	0-10	58	2.5	✓	✓	✓
EV250B 12 BD	G 1/2	032U5372xx	0-10	58	4	✓	✓	✓
EV250B 18 BD	G 3/4	032U5374xx	0-10	90	4.9	✓	✓	✓
EV250B 22 BD	G 1	032U5376xx	0-10	90	5.2	✓	✓	✓



#### EV220B direct servo compact valves for oil, air and water, normally closed. Medium temperature -10° C to +90° C

EV220B 10B	G 3/8	032U1518xx	0.1 - 20	51	1.5		✓	
EV220B 12B	G 1/2	032U1538xx	0.3 - 10	58	2.5		✓	
EV220B 18B	G 3/4	032U5286xx	0.3 - 10	90	6.0		✓	
EV220B 22B	G 1	032U5287xx	0.3 - 10	90	7.0		✓	

#### EV220B high performance valves for oil, air and water, normally closed. Medium temperature -10° C to +90° C

EV220B 15B	G 1/2	032U4514xx	0.3 - 16	80	4.0		✓	
EV220B 20B	G 3/4	032U4530xx	0.3 - 16	90	8.0		✓	
EV220B 25B	G 1	032U4534xx	0.3 - 16	109	11.0		✓	
EV220B 32B	G 1 1/4	032U4568xx	0.3 - 16	120	18.0		✓	
EV220B 40B	G 1 1/2	032U4585xx	0.3 - 16	130	24.0		✓	
EV220B 50B	G 2	032U4604xx	0.3 - 16	162	40.0		✓	



\*\* Add the Code number suffix to denote coil voltage:

For valves with 24 Volt ac - add 16 after code no.

For valves with 230 Volt ac - add 31 after code no.

For valves with 24 Volt dc - add 02 after code no.

More information can be obtained in our datasheets.