Introduction

The Danfoss range of general purpose solenoid valves is a series of modern 2-way valves for use with neutral liquids and gases.

These products are based on more than 50 years of experience in the design, production and application of high quality solenoid valves.

The Danfoss range of solenoid valves is stocking and user friendly, as valve bodies and coils are being supplied separately in most cases.

Many combinations are therefore possible with relatively few code numbers, allowing flexibility through reduction in warehouse costs, installation advantages and optimum delivery conditions.

If there is need for servicing, spare parts sets for all valve types are available from a world wide network of Danfoss distributors.

Valve Types

Direct acting valves, type EVI, with no minimum differential pressure requirement. For smaller flow volumes.

Pilot operated valves, type EVSI, which require a minimum differential pressure for correct operation. For medium to large flow volumes.

Direct lift, pilot operated valves, type EVSIT, designed for application in closed circuits with low, undefined pressure. For example central heating systems. The valves have no minimum differential pressure requirement.

Direct and servo operated valves for steam type EVSIS.

Modulating solenoid valves providing proportional flow regulation as the degree of opening is proportional to the coil current type EVSIM.

Materials in NC and NO valves

	EVI 1.5 - 10	EVSI 6 - 22 EVSIT 12, 18, 22	EVSI 6 - 22 EVSIT 12, 18, 22	EVSI 15 - 50	EVSI 15 - 50	EVSIM 6 - 20	EVSIS 3 - 25
For media [1]	OLW	W	OLW	OLW	WD	OLW	WD
Armature and magnet	17% stainless chrome steel						
Armature tube and spring	18% stainless steel, AISI 304						
Valve body	Brass MS 58 [2]						
O-ring	NBR [3] [4]	EPDM	FKM	NBR [4]	EPDM	PTFE	PTFE
Valve plate	NBR [3] [4]	EPDM	FKM	NBR [4]	EPDM	FKM	PTFE
Diaphragm	-	EPDM	FKM	FKM	EPDM	PTFE	PTFE

[1] Media Codes:
O = Oil
L = Inert Gas (incl. Air)
W = Water
D = Steam

[2] EVSI 50 – gun metal

[3] EVI 10 – FKM

[4] NBR also known as Buna "N" or Nitrile

Ordering

Valve body and coil to be ordered separately (except recognized valves).

Approvals

- SP certified no. 52727
- UL file no. MH7648
- UR file no. MH7648 (types EVI 1.5U - 3U and EVSI 6U - 50U)

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Data sheet

Type EVI 1.5 - 10, NC / NO
Direct acting valves

Features



- For neutral liquids (max. 50 cSt / 250 SSU) and gases
- Ambient temperature: Up to 120°F (50°C)
- Brass valve body
- Gasket materials: NBR (For EVI 10: VITON)
- Media temperature: 14°F (–10°C) to 194°F (+90°C)
- Test pressure: Max. 710 psi (50 bar)

Ordering

In the ordering table below, a code number and type designation are stated for each valve. Please use this information for ordering.

Example: EVI 3 - 032U6505.

Coils must be ordered separately, please see page 11.

Normally Closed (Closed when de-energized)

Connection NPT [inch]	Orifice Size [inch]	Flow value C_v USgal/min	Flow value k_v m³/h	Opening diff. pressure Min psi	Opening diff. pressure Min bar	Opening diff. pressure Max. psi	Opening diff. pressure Max. bar	Max. Wrk. Press. psi	Max. Wrk. Press. bar	Media [1]	Type	Code no. without coil
1/8	1/16	0.06	0.05	0	0	284	20	500	35	OLW	EVI 1.5	032U6501
1/4	1/16	0.06	0.05	0	0	284	20	500	35	OLW	EVI 1.5	032U6502
1/8	1/32	0.18	0.15	0	0	284	20	500	35	OLW	EVI 2	032U6503
1/4	1/8	0.35	0.3	0	0	284	20	500	35	OLW	EVI 3	032U6505
3/8	1/8	0.35	0.3	0	0	284	20	500	35	OLW	EVI 3	032U6506
3/8	1/4	0.82	0.7	0	0	17	1.2	350	25	OLW	EVI 6	032U6565
1/2	3/8	1.76	1.5	0	0	11	0.8	350	25	OLW	EVI 10	032U6567

Normally Open (Open when de-energized)

1/8	1/16	0.06	0.05	0	0	284	20	500	35	OLW	EVI 1.5 NO	032U6509
1/4	1/8	0.35	0.3	0	0	86	6	500	35	OLW	EVI 3 NO	032U6511

1) O = Oil; L = Inert Gas (incl. Air); W = Water

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