## **CONTROL VALVES**

### SOLENOID VALVES **EVSI SERIES**



#### **DESCRIPTION**

The Danfoss EVSI Series solenoid valves are two-way, two-position valves for clean water or low pressure steam applications and are available in normally closed or normally open operation. **EVSI Series** valves are pilot-operated and designed for non-water hammer operation. They come completely assembled with coil and are UL Recognized and CE Approved. The coils also include a gasketed conduit connector for NEMA 4 (IP65) environmental rating.

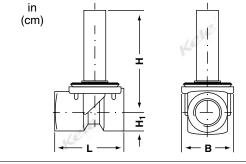
#### **FEATURES**

- · Anti-water hammer design
- · For hot or chilled water and low pressure steam
- · Fully encapsulated molded coils
- 1/2" threaded conduit connection
- Enclosed screw terminals
- NEMA 4 (IP56) environmental rating
- Modular conduit connection for easy installation
- Unique snap-on coil, no tools required



**c¶** us ∈ €

#### **DIMENSIONS**



TYPE	NPT	L	В	Щ	H*	Weight w/o coil
		in (cm)	in (cm)	in (cm)	in (cm)	lbs (kg)
EVSI 15	0.5"	3.25 (8.3)	2.1 (5.2)	0.6 (1.5)	3.7 (9.4)	1.8 (0.80)
EVSI 20	0.75"	3.7 (9.4)	2.25 (5.8)	0.7 (1.8)	3.9 (9.8)	2.2 (1.0)
EVSI 25	1"	4.6 (11.6)	2.75 (7.0)	0.9 (2.2)	4.25 (10.8)	3.1 (1.4)
EVSI 32	1.25"	4.8 (12.2)	3.25 (8.2)	0.7 (2.7)	4.5 (11.5)	4.4 (2.0)
EVSI 40	1.5"	5.2 (13.2)	3.75 (9.5)	1.25 (3.2)	4.9 (12.4)	7.1 (3.2)
EVSI 50	2"	6.4 (16.2)	4.4 (11.3)	1.4 (3.7)	5.1 (13.0)	9.6 (4.3)

<sup>\*</sup> For normally open valves + 3/16" (0.5 cm). 018F coil weight = 0.75 (0.34)

#### **SPECIFICATIONS**

Size 1/2" FNPT to 2" FNPT Cv 4.7, 9.4, 12.9, 21, 28, 46.8 Life Expectancy 800,000 cycles minimum Maximum System

**Pressure** 225 psig (1550 kPa) for 1/2" and 3/4" valves; 180 psig (1240 kPa) for 1" to

2" valves

**Pressure Drop** Minimum differential pressure 4

psid (30 kPa) to operate the pilot; maximum differential pressure 142

psid (980 kPa)

**Materials** Of Construction

Brass valve body, EPDM gasket **Media Compatibility** Clean hot or chilled water or glycol,

steam ≤15 psig

Media Temperature

Range Supply Voltage

**Supply Watts** 

14° to 248°F (-10° to 120°C) 120 VAC, 50/60 Hz; 24 VAC @ 14 VA, 50/60 Hz; 240 VAC, 50/60 Hz 120 VAC, 50/60 Hz; 24 VAC, 50/60

Hz; 240 VAC, 50/60 Hz

**Conduit Connection** 1/2" NPT

Action

**Dimensions** 

**Approvals** 

Warrantv

**Wiring Terminations** Screw terminals inside DIN

connector accept 16 to 18 AWG wire; DIN spades on encapsulated coil

N.C., N.O. (valve body determines

action)

Stroke Time .04 seconds opening time, 0.35

seconds closing time for 1/2" valves; up to 5.0 seconds opening time, 10.0 seconds closing time for 2" valves

**Manual Override** EVSI-MOM manual override magnet,

order seperately

Operating Temperature 32° to 120°F (0° to 50°C) **Enclosure Rating** NEMA 4 (IP65) with waterproof

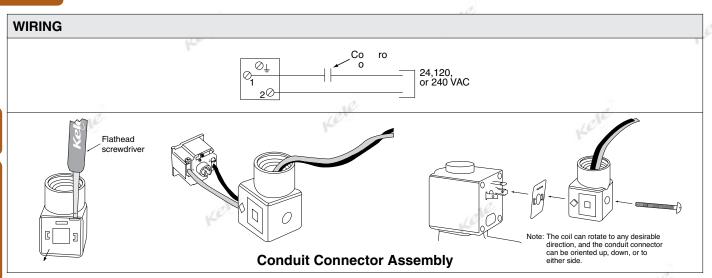
conduit connection

Coil, 2.5"H x 1.8"W x 2.4"D

(5.7 x 4.6 x 6.1 cm) UL file #MH7648

1 year

# **CONTROL VALVES SOLENOID VALVES EVSI SERIES**



#### **ORDERING INFORMATION**

MODEL	DESC	RIPTION					
EVSI	Solenoid valve						
	SIZE (N	IPT)					
	15	1/2", Cv = 4.7, opening time 0.04 sec, closing time 0.35 sec					
	20	3/4", Cv = 9.4, opening time 0.04 sec, closing time 1.0 sec					
	25	1", Cv = 12.9, opening time 0.30 sec, closing time 1.0 sec					
	32	1-1/4", Cv = 21.0, opening time 1.0 sec, closing time 2.5 sec					
	40	1-1/2", Cv = 28.0, opening time 1.5 sec, closing time 4.0 sec					
	50	2", Cv = 46.8, opening time 5.0 sec, closing time 10.0 sec					
		NORMAL MODE					
		NC	Norma	ally closed			
			Norma	Normally open			
			COIL	/OLTAGE			
			24	24 VAC, 50/60 Hz			
			120	120 VAC, 50/60 Hz			
			240	240 VAC, 50/60 Hz			
EVSI	<b>—</b> 15 -	- NC -	- 24				

Example: EVSI-15-NC-24 Solenoid valve with 1/2" NPT, normally closed, and 24 VAC coil

	ACCESSORIES
018F7655	24 VAC, 50/60 Hz replacement coil only
018F7663	120 VAC, 50/60 Hz replacement coil only
018F7658	208/240 VAC, 60 Hz replacement coil only

	RELATED PRODUCTS
EVSI-MOM	Solenoid valve manual override magnet
SSTAG	Stainless steel tag on bead chain, 1" x 2" dogtag, custom engraved per order