

# REMOTE SOLENOID ENCLOSURE MODEL CSN

ENCLOSURES

The CSN waterproof enclosure is designed for the remote control of diaphragm valves type VEM, and are available in the following models:

- CSN 1-2-3-4-5: from 1 to 5 solenoid pilots,
- CSN 6-7-8: from 6 to 8 solenoid pilots,
- CSN 9-10-11-12: from 9 to 12 solenoid pilots.

The CSN casing is IP67 approved. Each solenoid pilot, energized in sequence, commands a corresponding VEM type diaphragm valve, by way of 6 mm. pneumatic tube being less than 2 metres in length. The CSN casings are complete with fixing brackets. All common terminals are pre-wired. The CSN solenoid base is manufactured from extruded aluminium, while the cover is in die-cast aluminium both anodised for protection against aggressive agents.

The CSN casing features a common exhaust duct, located on the underside of the unit. The exhaust is open to the atmosphere and can be piped or muted with a silencer. For low temperature applications, enclosures are available with a thermostatically controlled heating device GRT that keeps the internal temperature at +4°C. The GRT is available in two models:

- GRT 70: for CSN 1-2-3-4-5
- GRT 120: for CSN 6-7-8 and CSN 9-10-11-12.

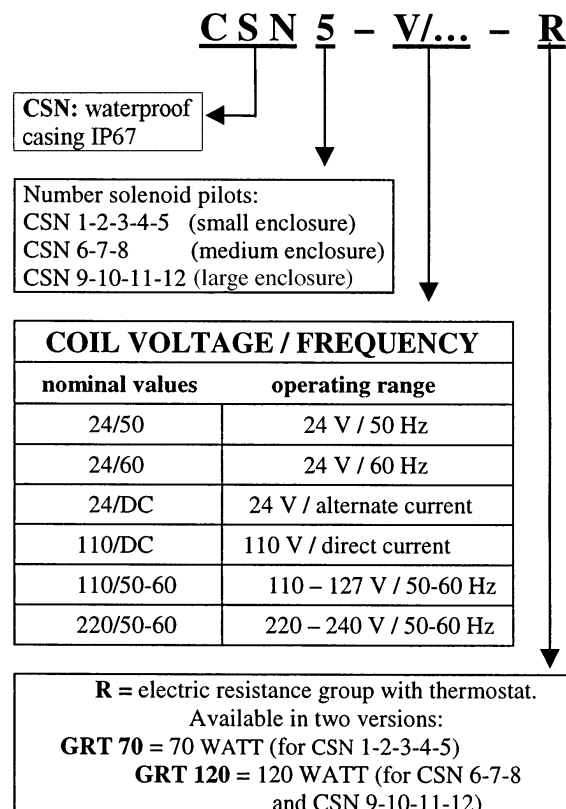


## HOW TO ORDER

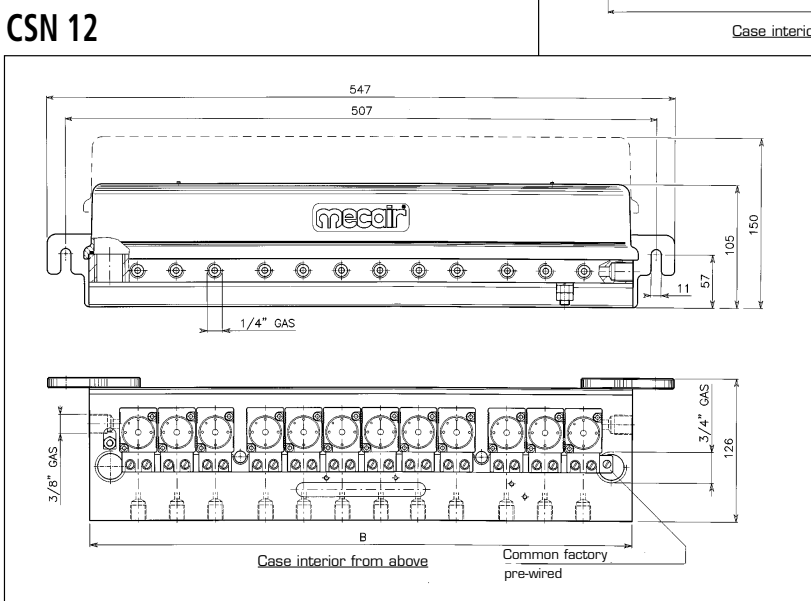
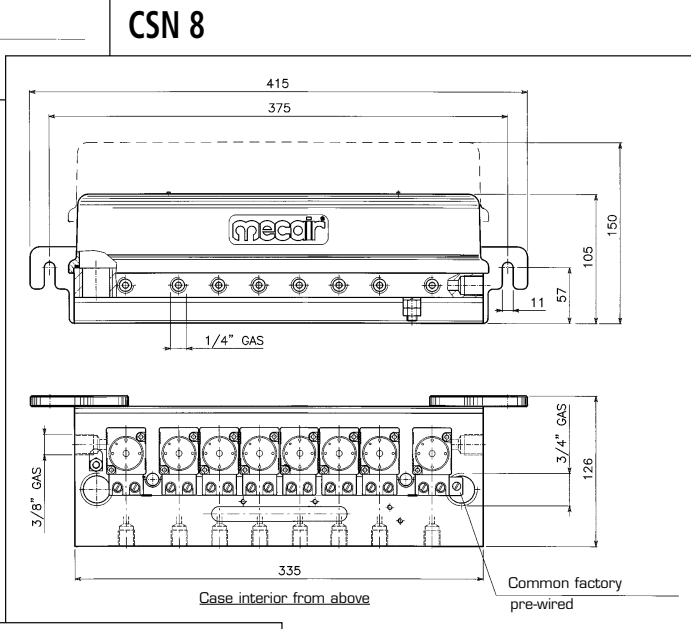
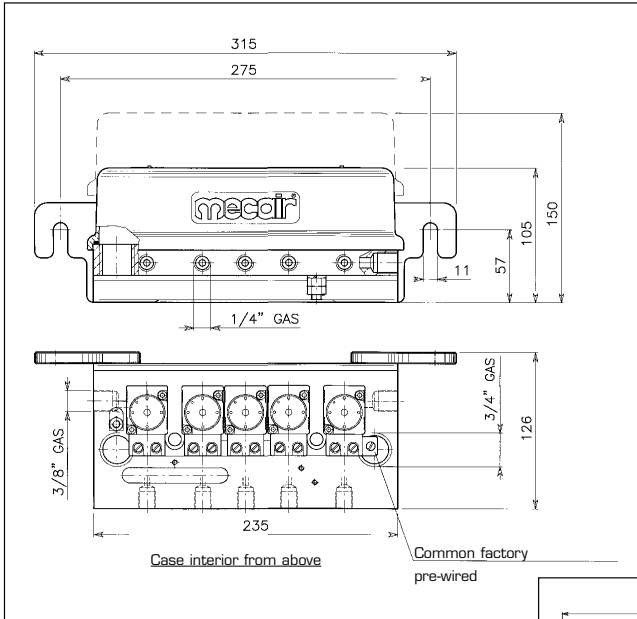
To order CSN enclosures refer to the following key:

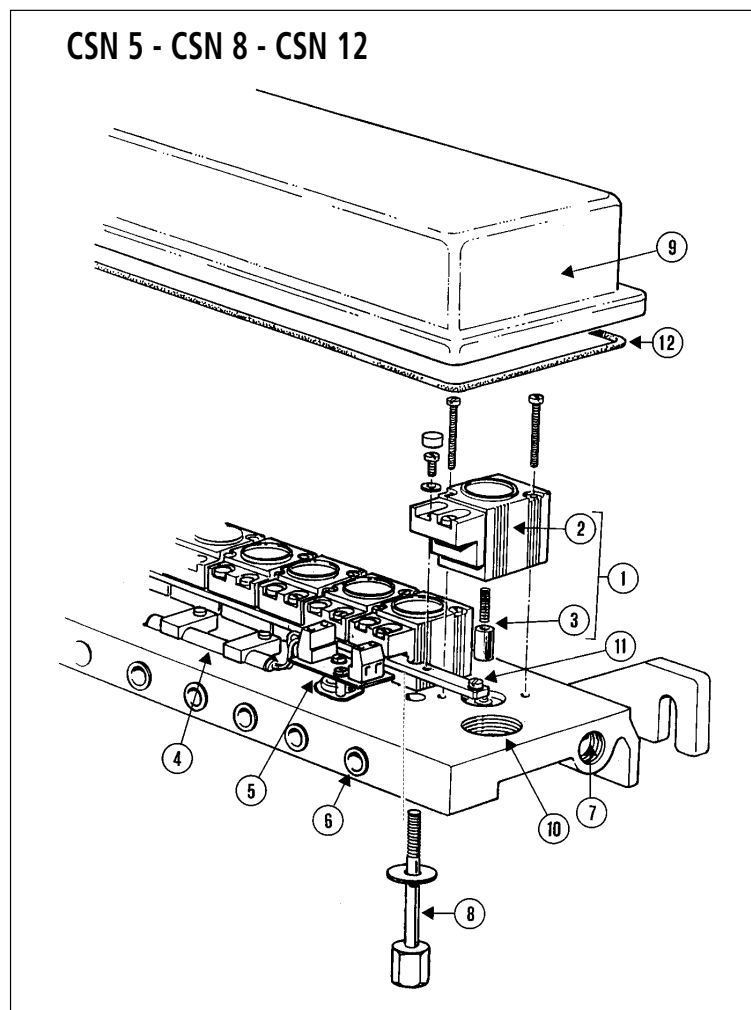
GENERAL FEATURES	
Operating temperature	- 20°C / + 60°C
Weight	CSN 5: 3,5 Kg CSN 8: 5 Kg CSN 12: 7 Kg
CONSTRUCTION FEATURES	
Cover	Die-cast aluminium
Base	Extruded aluminium
Plunger	Stainless steel
Spring	Stainless steel
Gaskets	NBR
ELECTRICAL FEATURES	
Coil insulation	Class H
Electrical connection	3/4" female GAS
Electrical protection	IP67, CENELEC Certificate GR-93/032409
Voltage and frequency	AC 50/60 Hz: 24/110/220 V DC: 24/110 V
Pneumatic connections	To VEM valves 1/4" female gas
	Common exhaust, No. 2 connections 3/8" female gas

PLEASE NOTE: 1 1/2" VEM valves with solenoid enclosure always have to be with double diaphragm.



# REMOTE SOLENOID ENCLOSURE MODEL CSN





SPARE PARTS		
POS.	PART DESCRIPTION	CODE
(1)	Pilot group complete with coil	SB2N- .../..(*)
(2)	Coil (*)	SB 2 - .../..(*)
(3)	Plunger with spring	ECL 28
(4)	Heater + thermostat For CSN 1-2-3-4-5	GRT 70 220 V
(5)	Heater + thermostat for CSN 6-7-8 and CSN 9-10-11-12	GRT 120 220 V

(\*) Specify voltage, frequency (or DC).

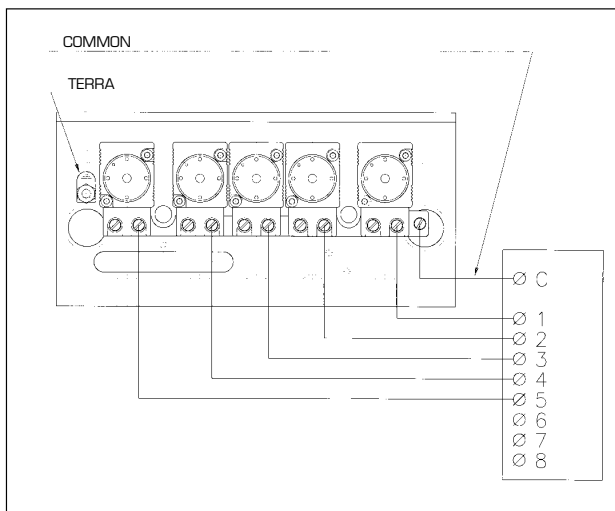
RECOMENDED SPARE PARTS
<b>FOR START UP:</b> ≥ 5% of supply (min. 1 piece): • pilot group (1), complete with coil and connector.
<b>FOR FIRST 2 YEARS OF SERVICE:</b> ≥ 10% of supply (min. 2 pieces): • pilot group (1), complete with coil and connector.

ELECTRICAL CONNECTION	
A	Unscrew the screw (8) and remove cover (9).
B	Connect electric wires as shown [E1] on following sheet. Cable entry (10): 3/8" gas cylindrical thread. Use multipolar cable: 1 wire to common pre-wired (11), +1 wire to each coil.
C	Connect heater thermostat (optional), see [E2] on following sheet.
D	Reassemble the cover (9) make sure of correct position of gasket (12).

## ELECTRICAL CONNECTIONS

### E1 - SEQUENCER

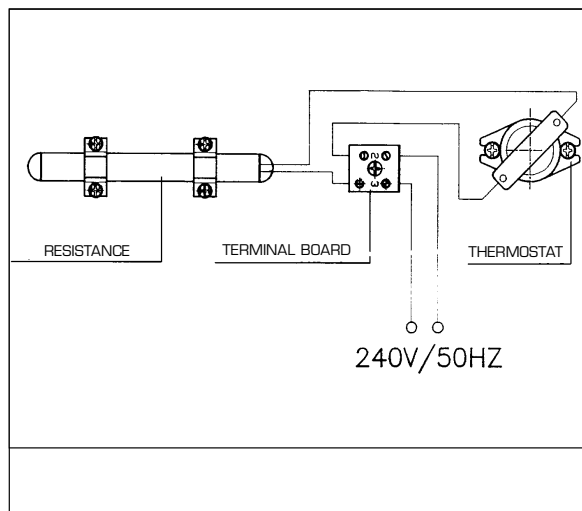
(plug in terminal connector)



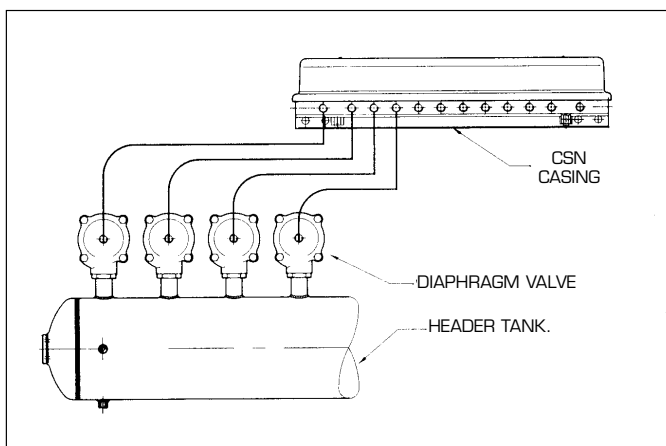
### E2 - THERMOSTATICALLY CONTROLLED RESISTANCE

GRT 70, 70 W, for CSN 1-5

GRT 120, 120 W, for CSN 6-8 and CSN 9-12



## PNEUMATIC CONNECTIONS



### ASSEMBLING AND CONNECTION

(6) PNEUMATIC CONNECTIONS 1/4" GAS – valve connection with:

- tube Ø 6–8 mm – Rilsan or Copper
- max. length 2 metres

– FLUID: – Compressed air (or nitrogen) dried, filtered and oil free.

– min/max pressure 0,5–7,5 bar (when exceeded 7,5 bar the valve open).

(7) EXHAUST CONNECTIONS:

Connection 3/8" gas: • open to atmosphere

- or muted with silencer
- or piped to an external tank for nitrogen recovery.



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CAT. CSN 0499e

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